ROUTINE STATUS REPORTS
ITEM 3

Regional Integrated Loop System Phase 1 Interconnect Project [U.S. 17 to Punta Gorda]
Project Status Report

Project: Regional Integrated Loop System Phase 1 Interconnect Pipeline Project [U.S. 17 to Punta Gorda]

Date: May 27, 2020

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

The following information summarizes the project description and current status. (see attached conceptual pipe route map).

Project Description

The Phase 1 Interconnect will provide a plant-to-plant connection between the Peace River Facility in DeSoto County with the Punta Gorda Shell Creek Water Treatment Plant in Charlotte County. The project will support the City in meeting drinking water quality requirements through blending with regional supply, provide back-up water supply to the DeSoto County system, and improve regional and local water supply system reliability. The Phase 1 Pipeline is bi-directional and is envisioned to deliver up to 4-million gallons per day (mgd) of regional finished water to the City’s Shell Creek Facility and to receive up to 2-mgd from the Shell Creek Facility. The estimated project cost is $12-million.

The project scope includes:
- Approximately 6.3 miles of a minimum of 24-inch diameter pipeline
- A subaqueous crossing of Shell Creek by Horizontal Directional Drilling (HDD)
- Metering/SCADA and telemetry at connection facilities
- Need for pumping and storage facilities (evaluated during design)
- Conceptual route(s) (evaluated during design).

The Phase 1 Interconnect begins at the terminus of the regional system’s DeSoto Regional Transmission Main on U.S. 17 at the DeSoto/Charlotte County line, continues south along U.S. 17, east and south along Washington Loop Road, south along Three Rivers Road adjacent to an abandoned railroad corridor, and across Shell Creek to the City’s Shell Creek WTP.

Current status

The Phase 1 Interconnect was Board approved for Design by King Engineering Associates, Inc. (King) on February 25, 2016. Bids were solicited from pre-qualified contractors (6) on October 4, 2018. The Bid Opening was held on November 7, 2018, five of the six, pre-qualified bidders submitted bids. The apparent low bidder was Reynolds Construction with a bid price of $8,228,000. At the December 5, 2018 Board Meeting, Reynolds was awarded the Construction Contract, and King Engineering’s Work Order for Construction Phase Services was approved. Additionally, the Board approved negotiations for final property acquisition. Subsequently,
required property was acquired. The Authority issued the Notice to Proceed to Reynolds on January 24, 2019. Change Order No. 1 for weather delays (30-calendar days) due to abnormal rainfall in July and August was Board Approved on October 2, 2019.

During this period the Contractor had multiple crews mobilized to the site, reinstalling pipe that did not meet specifications along U.S.17, and completing remaining pipe installation along U.S.17, North Washington Loop and Three Rivers Road. Additionally, the construction of the Shell Creek Meter Station was completed. Also, the Contractor connected the Phase 1 Pipeline to the Shell Creek Water Treatment (south end) and to the existing Desoto County Regional Transmission Main (north end). Currently, the Contractor is finishing construction of air release valves and blow offs and preparing for pressure testing, flushing and disinfection of the pipeline. Installation of the Horizontal Directional Drill under Shell Creek has been completed (approximately 3,500-ft).

Project photographs.
Gopher tortoises being relocated.

Horizontal Directional Drill Rig
HDPE pipe fused and ready for Pullback on north side of Shell Creek, July 6, 2019
Drill Rod attached to pulling head on HDPE pipe for Pullback – north side of Shell Creek – July 7, 2019

Jack and Bore Preparation at Shell Creek Reservoir, Dam Road – South Side of Shell Creek Nov. 2019
Pipe installation from south end of HDD, crossing under Shell Creek, Towards Shell Creek WTP – January 2020

Shell Creek Meter Assembly Construction – March 2020
Project History Briefing

Project: Regional Integrated Loop System Phase 1 Interconnect Pipeline Project [U.S. 17 to Punta Gorda]

Date: May 27, 2020

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The following information summarizes the historical milestones and events of the Regional Integrated Loop System Phase 1 Interconnect.

- July 24, 2015 - The Authority Advertised for Consultant Statement of Qualifications (SOQs) for engineering design and construction management services for the Phase 1 Regional Interconnect Pipeline Project.

- August 25, 2015 - Deadline for consultant SOQ package. Five SOQ packages were timely received by the following:
  - Atkins North America, Inc.
  - Johnson Engineering, Inc.
  - Kimley Horn and Associates, Inc.
  - King Engineering Associates, Inc.
  - TKW Consulting Engineers, Inc.

- August 28, 2015 - Electronic Copies of the SOQ Packages were distributed to member and customer utility directors and the SWFWMD for feedback or comments. Feedback was requested by September 14, 2015.

- Sept. 22, 2015 - A short list of three Consultants were listed in alphabetical order and posted on the Authority Web Site.
  - Atkins North America, Inc.
  - King Engineering Associates, Inc.
  - TKW Consulting Engineers, Inc.

- October 7, 2015 - Short listed consultants gave their presentations and were interviewed by the Authority Board. King Engineering Associates, Inc. was selected by the Board for the Phase 1 Project.

- December 2, 2015 - The Authority Board approved the Interlocal Agreement for the Phase 1 Regional Interconnect Between the PRMRWSA and the City of Punta Gorda.

- December 2, 2015 - The Consent Request for approval of the Authority/Punta Gorda Phase 1 Interconnect Project was submitted to the Charlotte County Board of County Commissioners.
- February 23, 2016 - Charlotte County Board of County Commissioners granted Consent for the Phase 1 Interconnect Project.

- February 25, 2016 - The Authority Board (Special Board Meeting) Approved the following:
  - The Interlocal Agreement between PRMRWSA and DeSoto County for the Phase 1 Regional Interconnect.
  - The Cooperative Funding Agreement between the SWFWMD and PRMRWSA for the Phase 1 Regional Interconnect for a total of $12 million. Subdivided into Punta Gorda payment of $2 million, State Appropriations of $4 million and SWFWMD Cooperative Funding of $6 million.
  - The Contract for Professional Engineering Services for Design and Construction Management/Inspection for the Phase 1 Regional Interconnect with King Engineering Associates, Inc. King).
  - Work Order No. 1 for Preliminary Design Services of Phase 1 with King in the amount of $278,760. The effort for completion of Work Order 1 is 180- calendar days from the Notice-to-Proceed date.

- March 5, 2016 - Pending execution of the Cooperative Funding Agreement between the SWFWMD and PRMRWSA for the Phase 1 Regional Interconnect the Notice-to-Proceed was issued to King for Work Order 1, Preliminary Design Services.

- March 15, 2016 - The Phase 1 Interconnect kickoff meeting was held at the Peace River Facility. The meeting was attended by Authority staff, SWFWMD, King and the City of Punta Gorda.

- April/May 2016 - On April 18, 2016, a Coordination Meeting was held with Florida Power and Light, regarding Easements/ROW on potential project Routes. The meeting was attended by King, Authority, and FPL.

  On April 28, 2016, a Project Progress Meeting held. The meeting was attended by the Desoto County, SWFWMD, King and Authority staff. Items discussed included:
  1. Status of Preliminary Engineering Effort
  2. Project Metering and SCADA requirements
  3. Operations of Project Prairie by Desoto County
  4. Status of Route Evaluations
  5. Schedule for BODR

  On May 10, 2016, a Project Progress meeting was held with the Desoto County at the South Booster Station/Project Prairie site. The meeting was attended by Desoto County, King, and Authority staff. The group toured the site including the pump building, yard piping routes, and meter assemblies. Desoto County described how water flow is control at the Booster Station. Phase 1 yard-piping, meters and telemetry alternatives as well as potential site locations for new meter assemblies were discussed.

  Also on May 10, 2016 a Project Progress meeting was held with Punta Gorda at the Shell Creek Water Treatment Plant. The meeting was attended by Punta Gorda, King and
Authority staff. Phase 1 connection points at the Plant, metering, and telemetry were discussed. Coordination between the Phase 1 and the City’s RO Plant construction schedules were also discussed. The group toured the Shell Creek reservoir and dam. King explained alternate construction methods for crossing Shell Creek that are being evaluated. The City plans to implement and operate Phase 1 flow control set points similar to the current Phase 1A flow control scheme.

- June/July 2016 - On June 23, 2016, a Project Progress Meeting was held. The meeting was attended by the City of Punta Gorda, Desoto County, SWFWMD, King and Authority staff. Items discussed included:
  1. Status of Preliminary Engineering Effort
  2. Pipeline Hydraulics, including City, and County demands and delivery points. An interim connection at Shell Creek was discussed since the Phase 1 Interconnect is scheduled to be completed prior to the Shell Creek RO Facility.
  3. Status of Route Evaluations; discussions focused on Phase 1 Interconnect Routes evaluated in the 2006 Routing Study (4-Routes) and a new Route 5, per King.
  4. Discussions/concerns regarding the Hendrickson Dam embankments, including embankment geotechnical issues that occurred during the 2009 Dam Improvements Project.
  5. Pros and cons for pipe crossing methods/locations @ Shell Creek.
  6. Land Requirements for the new Route 5 (west of the Hendrickson Dam) adjacent to the FPL ROW.
  7. Next period King will complete the Route Evaluation which includes re-evaluation of 4-routes from the 2006 Regional Integrated Loop System Feasibility/Routing Study and Route-5 per King.
  8. A Public Meeting for the Phase 1 Interconnect will be schedule in early August.

- August/Sept. 2016 - On August 11, 2016, a Project Information Meeting was held at the Laishley Park Municipal Marina in Punta Gorda from 6:00pm to 8:00pm. In addition to private citizens, the meeting was attended by the City of Punta Gorda, Charlotte County, SWFWMD, King and Authority staff. Three potential routes, Route 1, Route 2 and Route 5, were shown on poster boards and discussed with attendees. Private citizens were provided with comment cards and asked to provide a preference ranking of the routes. Poster boards regarding, how the Phase 1 pipeline fits into the Authority’s Regional Vision for transmission mains to interconnect water treatment plants, project goals, funding sources, construction methods for crossing Shell Creek and Schedule were also shown and discussed with attendees.

The Project Information Meeting was advertised in local papers and over 250 letters of invitation were sent out to residents and businesses along prospective routes, and to Local and State government officials. On August 17, 2016 an Operations Coordination Meeting was held with the City of Punta Gorda to discuss operations, meter configurations and instrumentation, residuals and connection points for the Phase 1 Interconnect at the Shell Creek Water Treatment Plant.
Much of the meeting focused on interim operation of the Phase 1 Interconnect prior to the City’s Reverse Osmosis Treatment Plant coming on line. The meeting was attended by King, City and Authority staff.

On September 15, 2016 an Operations Coordination Meeting was held with Desoto County to review the status of the Phase 1 Project with the County and to discuss future operations, meter configurations, instrumentation and connection points for the Phase 1 Interconnect at the County’s Project Prairie facility.

The Authority is currently reviewing draft sections of the Basis of Design report. King Engineering Associates continues to evaluate pipeline routes, and develop preliminary design requirements and Opinion of Probable Construction Costs for each prospective pipeline route.

- Oct./Nov. 2016 - On September 26th King submitted the preliminary draft of the Basis of Design Report (BODR) to the Authority. The Authority reviewed and forwarded comments to King on October 6th. The preliminary draft BODR did not include results for soil borings in Shell Creek at the proposed Route 2 and Route 5 creek crossings as discussed below. Per the preliminary draft BODR, Route 2 is now proposed to cross downstream of the Hendrickson Dam (previously it was going to cross upstream of the Dam). The Route 2 Shell Creek crossing by horizontal directional drill was moved downstream because it is shorter/less expensive.

King’s Geotechnical sub-consultant performed soil borings at Routes 2 and 5 in Shell Creek in the vicinity of the horizontal directional drill (HDD) creek crossings. The proposed Route 2 HDD creek crossing is approximately 300-lf downstream of the Hendrickson Dam. The proposed Route 5 HDD creek crossing is about 1.5 miles downstream of the Hendrickson Dam adjacent to a Florida Power and Light power line crossing. The soil borings were performed during the last week of September. The soil boring report was submitted to King October 11th. King evaluated the results of the soil borings for inclusion in the final draft of the Phase 1 draft BODR.

On November 1, 2016 a progress meeting was held with King and Authority Staff.

On November 16, 2016 King submitted the final draft of the Phase 1 Interconnect BODR which evaluated 3 route alternatives. Based on preliminary engineering evaluation and analysis Route 2 was recommended.

On November 17, 2016 the final draft of the Phase 1 Interconnect BODR was submitted to Charlotte County, Desoto County, Manatee, and Sarasota Counties as well as the City of North Port, the City of Punta Gorda, SWFWMD and FDEP for feedback. Review comments to the Authority are anticipated to be received by December 17, 2016.

- Dec. 2016 & Jan. 2017 - At the December 7, 2016 Board Meeting, King presented the Phase 1 Interconnect, final draft Basis of Design Report (BODR). Three routes were assessed by King during preliminary engineering. King recommended Route 2, which follows the
original Phase 1 Interconnect Route from the 2006 60%-complete Phase 1 Design Build Project, with the following exceptions:

- New Pipeline is not in or on the Hendrickson Dam embankments
- As currently proposed, the Pipeline crosses Shell Creek by Horizontal Directional Drilling (HDD) downstream of the Hendrickson Dam, upland to upland.

The Engineer’s Opinion of Probable (Total) Cost for the new Phase 1 Pipeline is $11,960,000. The Phase 1 Pipeline is scheduled to be operational by February 2020. In November the final draft of the BODR was submitted to Charlotte, Desoto, Sarasota and Manatee Counties, the Cities of North Port, and Punta Gorda, the South West Florida Water Management District (SWFWMD) and the Florida Department of Environmental Protection (FDEP) for feedback. Review questions and comments were forwarded to King in December 2016 and January 2017 and incorporated into the Final BODR.

In January 2017 King submitted Work Order 2 ‘Design, Permitting and Bidding Services’ for the Phase 1 Interconnect. Work Order No. 2 to King, includes survey, geotechnical services, design, permitting, property acquisition services, and bidding services. These project activities cover a 23-month schedule with design and permitting efforts completed in the fall of 2018 allowing selection of a contractor for construction in January 2019. The Authority negotiated with King and then forward Work Order No. 2 with King to Desoto, Charlotte, Sarasota and Manatee Counties, the Cities of Punta Gorda and North Port, SWFWMD and FDEP for feedback.

- February & March 2017 - The Board approved King’s Work Order 2 for ‘Design, Permitting and Bid Phase Services at the February 1, 2017 Board Meeting. King was issued the Notice-To-Proceed for Work Order 2 on February 10th. A Kickoff Meeting for the Design Phase was held on February 15th.

On March 1st a meeting was held with King, the Authority and the president of the Three Rivers Home Owners Association to discuss the proposed horizontal direction drilling (HDD) alignment at Shell Creek. The Three Rivers HOA does not have any issues with the proposed HDD alignment passing under the HOA’s boat ramp property located on the north side shore of Shell Creek, downstream of the Hendrickson Dam. Additionally, King has been in communication with private property owners along the proposed (HDD) route at Shell Creek where easements may be required.

On March 6th an Operations Coordination meeting was held with the City of Punta Gorda at the Shell Creek Facility (SCF). Discussions focused on the Phase 1 Interconnect connection at the SCF, use of proposed pumps in the existing clear well to be dedicated to the Phase 1 Interconnect (for pumping flows south to north), communications from the new meter station to the SCF via fiber, and power for the new meter station.

- In March geotechnical boring were performed in and around Shell Creek for the proposed horizontal direction drilling subaqueous crossing of Shell Creek. The dam transects survey for the HDD alignment was also completed. Identification, collection of information and
survey of environmental sensitive areas is underway for permitting in the vicinity of Shell Creek.

During this period King has completed the majority of the topo survey of the Phase 1 Interconnect alignment. King provided proposed plan drawings of the alignment to other utility providers along the Phase 1 route to coordinate and identify potential infrastructure conflicts. The Project design drawings are 30% +/- complete. Currently, the Project is on time and on budget.

- April & May 2017 - Project Progress Meetings were held on April 25th and May 10th and attended by King the Authority, SWFWMD (April) and the City of Punta Gorda (April). Geotechnical Work for the Shell Creek Horizontal Direction Drilling (HDD) crossing was completed in May. King is currently refining the HDD alignment across Shell Creek. When the HDD alignment is selected, a bathymetric survey of the proposed alignment and the mean high water survey will be performed.

King’s land agent met with property owners and representatives of the Three Rivers Home Owners Association on May 16th to discuss potential easements for the Phase 1 Pipeline alignment/HDD at Shell Creek.

King and the Authority met with the FDEP regarding pre-application for the Environmental Resources Permit (ERP) on May 16th. On May 24rd King and the Authority met with the U.S. Army Corps of Engineering (ACOE) regarding pre-application for the ACOE Permit for the entire proposed pipeline alignment.

This period topographic survey for the Phase 1 Interconnect alignment was completed. Survey of subsurface utilities, was also completed. Additionally, survey of environmental sensitive areas for permitting was completed. King submitted proposed design drawing for the pipeline route with profiles. The project design drawings are 50% +/- complete. Currently the project is on budget and schedule.

- June & July 2017 - On June 20th a Project Progress Meetings was held and attended by King the Authority and SWFWMD. King reviewed pipeline plan and profile, and meter station progress, drawings. Engineering evaluations regarding pipe selection (wall thickness and corrosion control) were discussed. Additionally, the proposed table of contents for Project Specifications was reviewed.

On April 10th the Authority requested an Amendment to the SWFWMD Cooperative Funding Agreement (CFA) to the revise the Contract Period Schedule. On June 13th SWFWMD returned the Amendment to the Agreement for signature by the Authority. The Authority returned signed the Amendment to SWFWMD on June 19th.

The draft USACOE permit and FDEP ERP permits have been drafted by King sub-consultants and are under review by King Engineering.

This period the Tidal Study at Shell Creek was accepted by the FDEP (May 23, 2017). King
has also completed the Bathometric Survey for the proposed Horizontal Directional Drilling (HDD) alignment across Shell Creek.

On June 12th, King and their Land Agent (FLAA) and the Authority met with General Counsel/Manson Bolves Donaldson P.A. to discuss property procurement for the pipeline alignment at Shell Creek. Easement documents, and legal descriptions and sketches, are being developed.

The Phase 1 Project design is approximately 60% complete. The Project is currently on budget and schedule.

- August & September 2017 - On August 11, 2017 a Project Progress Meetings was held and attended by King and the Authority to discuss operations parameters for the Phase 1 Interconnect. Meetings are scheduled with the City of Punta Gorda and Desoto County to discuss control strategies at the Shell Creek Water Treatment Plant and the Desoto County South Booster Station for inclusion in Kings 60% design submittal.

The USACOE permit application was submitted on September 5, 2017. The Florida Department of Transportation permit application for the Phase 1 alignment will be submitted in early October. The Florida Department of Environmental Conservation Environmental Resources Permit (ERP) is on schedule to be submitted subsequent to the 90% design in December 2017.

Sketches and legal descriptions have been completed for all property owners along the Horizontal Direction Drilling (HDD) alignment on both sides of Shell Creek. Estimated costs for permanent and temporary utility easements have been established for discussion with the property owners. Currently the Authority and General Counsel (Manson, Bolves, Donaldson, P.A.) and King are coordinating to secure easements on private property under Shell Creek and on state owned submerged lands as required to obtain the Sovereignty Submerged Lands easement (SSL). The bathometric survey for the HDD alignment will be scheduled subsequent to obtaining private property easements and the state SSL easement at Shell Creek.

King submitted the 60% design (drawing, specifications and revised opinion of construction cost) to the Authority for review. The project and is currently on budget and schedule.

- October & November 2017 – On September 27, 2017 an Operations Coordination meeting was held with the City of Punta Gorda to discuss the Meter Station control valve, and valving that will be installed on the Shell Creek WTP site. On October 3, 2017 the 60% design was submitted to the FDEP, which was subsequently found to be acceptable by the FDEP. On October 5, 2017 the 60% design was submitted to the SWFWMD which was subsequently found to be acceptable. On October 24, 2017 the 60% design meeting was held with King and the Authority. On October 31, 2017 King submitted the Pipe Wall Thickness Memo for the Phase 1 pipeline. King also completed the bathymetric survey for the Shell Creek HDD crossing in October.
On November 21, 2017 King submitted the FDOT Permit Application for Phase 1. Property acquisition work continued. The FDOT Permit application was submitted. The FDEP ERP application is anticipated to be submitted in December. King is currently developing the 90% design submittal. The project is on schedule and on budget.

- **December 2017 & January 2018** – On December 5, 2017 a meeting was held with Charlotte County Public Works to discuss Right-of-Way Permitting requirements for the Phase 1 Project. On December 13, 2017 King submitted the 90% Design Documents which were distributed to the SWFWMD, FDEP, City of Punta Gorda and Desoto County. King also completed hydraulic and transient modeling for the Phase 1 Interconnect. On December 28, 2017 the Environmental Resource Permit application was submitted to the FDEP. The Application included the Application for Authorization to Use State-Owned Submerged Lands at the Shell Creek crossing. All above permit application are under review by the respective agencies. The Gopher Tortoise Relocation Permit Application is anticipated to be submitted to the Florida Fish and Wildlife Conservation Commission in February. The Phase 1 Interconnect Project is on schedule and on budget.

- **February and March 2018** – King submitted the Phase 1 Interconnect 90% Design Documents on December 13, 2017. A Project Progress Meeting was held with King Engineering on February 12, 2018 to review the updated 90% Design Documents and to discuss permitting and land acquisition status.

On February 9, 2018 the Authority advertised Request(s) for Statement of Qualifications (RFSOQs) for Phase 1 Prime Contractors and Phase 1 Horizontal Directional Drilling (HDD) Subcontractors. The RFSOQs were advertised in local newspapers and posted on the Authority Web Page. On February 23, 2018 the Authority held a meeting with King Engineering to review and discuss Contractor written questions and Authority responses, regarding the RFSOQs. Two addendums for the RFSOQs were posted on the Authority Web Page on February 16, 2018 and February 27, 2018. The Authority received seven SOQs for Prime Contractors and five SOQs for HDD Subcontractors by the March 12, 2018, 2:00pm deadline. From March 12-19 SOQ submittals were evaluated. On March 15, 2018 King and the Authority met to discuss Contractor SOQs. King submitted a Memorandum on Contractor Prequalification in recommendations on March 19th. On March 20, 2018 the Authority posted a Notice-of-Intended-Decision on prequalified Prime Contractors and HDD Subcontractors on the Authority website.

The Application for the FDEP Environmental Resource Permit/State Owned Submerged Lands (SSL Easement) was submitted to the FDEP by King Engineering on December 28, 2017. To date the following actions have been taken:
- February 16, 2018 the FDEP Posted Permit 359802-001 on the FDEP Web Page.
- February 20, 2018 and March 1, 2018 King and the Authority held conference calls to discuss responses and clarifications of the posted permit
- March 1, 2018 King posted permit responses/clarifications on the FDEP Web Page
- March 1, 2018 the FDEP responded that a permit modification was required to address the HDD subaqueous route at Shell Creek.
March 6, 2018 King and the Authority’s Attorney held a conference call with the FDEP to discuss the Sovereignty Submerged Lands (SSL) Authorization associated with the Permit.

March 7, 2018 King submitted /posted the permit modification application.

March 9, 2018 FDEP noticed that they were in receipt of the permit modification application (359802-002) and the modification is under review.

The FDEP ERP 359802-002 is anticipated to be received by April 1, 2018.

The Phase 1 Gopher Tortoise Permit No. GTC-18-00072 was issued to the Authority on March 20, 2018.

The FDOT permit application (assigned Permit No. 2017-H-197-8) is still under review. We anticipated receiving the permit by May 1, 2018.

The Smith Property - Temporary Construction Easement, and Smith Property - Non-Exclusive Waterline Easement, were recorded in Charlotte County on March 7, 2018. King Engineering is currently having the remaining Phase 1 Interconnect easements (9) appraised for upcoming negotiations with property owners for prospective easements.

On March 21, 2018 a coordination meeting was held with King, the City of Punta Gorda and the Authority at the Shell Creek Water Treatment Plant (SCWTP) to discuss flushing and disinfection of the proposed Phase 1 Interconnect from the south side of Shell Creek to the SCWTP. The Phase 1 Interconnect Project is on schedule and budget.

April and May 2018 – On April 4, 2018 the Board approved Contractors who prequalified based on review of their Statements-of-Qualification by King and the Authority. This included 6-Prime Contractors and 5-HDD Subcontractors.


During April the Appraiser for King completed appraisals 6-easements. Subsequent to obtaining the appraisals Statement of Offer Packages were transmitted to 5-property owners for easements along the Phase 1 Pipeline alignment. On April 4th a meeting was held with King, Authority Attorneys (teleconference) and the Property Appraiser. On April 9th a meeting was held with King and FLAA (Land Agent) to discuss easements. On May 3, 2018 a meeting was held with King (teleconference) and Authority Attorneys to discuss strategies for obtaining required easements.

On April 13th the Drinking Water General Permit application was submitted to the FDEP. The FDEP reviewed and stated that a Drinking Water Specific Permit was required for the Phase 1 Project. On April 18th the Drinking Water Specific Permit application was submitted to the FDEP.
Phase 1 Permits to Date:
- Gopher Tortoise permit issued March 20, 2018
- USACOE permit issued March 28, 2018
- FDOT Permit issued April 11, 2018
- FDEP ERP/SSL – May 2018
- FDEP Drinking Water Specific Permit – May 2018

King submitted a Flushing and Disinfection Memo for the Phase 1 Interconnect on April 17, 2018.

The FDEP ERP 359802-002 is anticipated to be noticed in early May.

Property Acquisition / Easements
All property owners along the Phase 1 Interconnect alignment have been contacted.
- South Side of Shell Creek – easements have been obtained
- Shell Creek (properties in water) – Two property owners have been sent Statement Offer Packages
- North Side of Shell Creek – Three property owners have been sent Statement Offer Packages
- Desoto County – One easement, anticipated to be obtained in May.

The Phase 1 Interconnect Project is on schedule and budget. The Authority continues good faith negotiations with property owners for easements.

- June and July 2018

Permits:
On May 14, 2018 the FDEP ERP was advertised for Notice for 14-days. On May 28, 2018 the FDEP ERP was obtained by the Authority. On May 25, 2018 the FDEP Drinking Water Specific Permit was obtained by the Authority. Permits required to be obtained by the Owner have been acquired. These include the FDOT, FDEP ERP, FDEP Drinking Water, USACOE, and Gopher Tortoise, permits.

Easements and Property:
On May 30, 2018 a conference call was held with the Authority, King and Manson Group to discuss strategies to obtain easements. The Authority continues good faith negotiations with two property owners for easements. On June 22, 2018 Eminent Domain proceedings for easement takings, on four properties, were filed with the Circuit Court of Charlotte County. The Berkman Land Trust offered to sell two land parcels in lieu of selling an easement. These parcels are located on the north side of Shell Creek on both the west (pipeline alignment) and on the east side of the City Punta Gorda Reservoir dam. Both parcels are adjacent to the dam, the west parcel includes approximately 40 acres and the east parcel includes approximately 17 acres.

Bidding Documents:
King Engineering submitted the Phase 1 Project draft Bidding Specifications to the Authority on June 8, 2018, and are currently under review by the Authority.

Schedule:
The Authority currently anticipates bidding the Phase 1 Project in mid-September and taking the Construction Contract and the Engineer’s Work Order for Construction Phase Services to
the Board in December for approval. The Phase 1 Interconnect Project is on schedule, pending favorable easements acquisition, and on budget.

- August and September 2018

Easements and Property:
On August 23, 2018 a site visit/meeting regarding (Shell Creek Crossing) properties was conducted with the Authority Attorney to discuss outstanding easements. Due to title complications with the Berkman Land Trust parcel on the east side of the Punta Gorda Reservoir Dam the Authority is only pursuing the purchase of the Land Trust parcel on the west side of the dam which coincides with the Phase 1 Pipeline alignment. On June 22nd Eminent Domain proceedings for easement takings, on four properties were filed with the Circuit Court of Charlotte County. The Authority continues good faith negotiations with these property owners.

Bidding Documents:
King Engineering submitted the Phase 1 Project draft Final Bidding Documents to the Authority on September 4, 2018. Documents are currently under review by the Authority.

Permit Summary
The following permits have been obtained for the Phase 1 Interconnect - FDEP-ERP, FDOT Utility Permit, USACOE Nationwide-12, FWC Gopher Tortoise, and FDEP Permit to Construct Drinking Water System.

SWFWMD:
On August 15, 2018 the Authority requested a Second Amendment to the funding Agreement No. 15C00000052.

Schedule:
The Authority currently anticipates soliciting bids from pre-qualified contractors this fall and award of the Construction Contract, and the Engineer’s Work Order for Construction Phase Engineering Services, late this CY or early CY 2019.

- October and November 2018

Easements and Property:
On June 22nd Eminent Domain proceedings for easement takings, on four properties were filed with the Circuit Court of Charlotte County, Case No. 2018-CA-000581. The Authority anticipates reaching negotiated settlements for these properties, via Stipulated Order of Takings – Final Judgement in CY 2018. The Stipulated Settlements include three (3) Permanent Utility Easements and three (3) Temporary Construction Easements collectively. Based upon a favorable outcome, this will finalize property acquisition for the Project. The total cost (including filing fees) for the easements in Case No. 2018-CS-000581 has been negotiated for $171,717.50.
The land purchase (Pin#402420151002 approximately 40-acres) from Jackowitz and Berkman Land Trust, for $10,000, in lieu of a Permanent Utility Easement parcel purchase was recorded with Charlotte County on October 11, 2018. The parcel purchase for a Permanent Utility Easement from Walmart Stores was recorded in Desoto County on October 17, 2018. The purchase cost is $2,600.

Bid Phase:
King Engineering submitted the Phase 1 Project Final Bidding Documents to the Authority on October 1, 2018. On October 4, 2018 Bid were solicited from pre-qualified bidders. The Mandatory Pre-Bid Meeting was held on October 11, 2018. On October 25 Addendum 1 was posted on the Authority web page. The Bid Opening was held on November 7, 2018, five of the six pre-qualified bidders’ submitted bids. The apparent low bid was submitted by Reynolds Construction with a bid price of $8,228,000. King Engineering reviewed Contractor bid submittals, and prepared a bid tabulation and letter of recommendation for Award of the Construction Contract for Phase 1 Project, dated November 14, 2018. Subsequent to negotiation, King’s Work Order 3 for Construction Phase Services, at a price of $897,470 was finalized and submitted on November 15, 2018.

Permit Summary
The following permits have been obtained for the Phase 1 Interconnect - FDEP-ERP, FDOT Utility Permit, USACOE Nationwide-12, FWC Gopher Tortoise, and FDEP Permit to Construct Drinking Water System.

SWFWMD: (N416) Agreement
On October 4, 2018 the Authority Web Page link, for the Phase 1 Bid Documents, was emailed to SWFWMD. On October 9, 2018 SWFWMD approved the Second Amendment to the funding Agreement No. 15C00000052. The amendment addressed the Project Schedule.

FDEP: (LP08032) Agreement
The FDEP Funding Agreement was amended in October to adjust the Project Schedule. On October 4, 2018 the Authority Web Page link, for the Phase 1 Bid Documents was emailed to the FDEP.

On October 18, 2018 the following was forwarded to FDEP
- a list of approved permits (Owner secured)
- a list of permits to be obtained by the Contractor
- newspaper notices for Invitation to Bid
- Invitation to Bid

Schedule:
If construction contract, engineering services work order and land costs are approved at the December 5th Board meeting, it is anticipated that the Notice-to-Proceed will be issued to Reynolds (for construction) by mid-January 2019. The Phase 1 is scheduled for completion in the spring of 2020. The Phase 1 Interconnect Project is on schedule and budget.
• December 2018 and January 2019

Easements and Property:
The Stipulated Order of Taking – Final Judgements for easements on three properties were recorded in Charlotte County on December 27, 2018. Property acquisition for the Project has been completed. Negotiations for Final Judgements for easements were approved at the December 5, 2018 Board Meeting.

Bid Phase:
Reynolds was awarded the Construction Contract at the December 5, 2018 Board Meeting and sent a Notice of Award on December 7, 2018. Reynolds was issued the NTP on January 24, 2019 at the Pre-Construction Meeting.
King’s Work Order 3 for Construction Phase Services, at a price of $897,470 was finalized and submitted on November 15, 2018. King was issued a Notice to Proceed on December 11, 2018.

Notice to Proceed was issued to Reynolds Construction, LLC on January 24, 2019.

The Interlocal Agreement with the City of Punta Gorda was Amended (No. 1) to update the Project Schedule. The Amendment was approved by the Board at the December 2018 Board Meeting.

• February and March 2019

Construction Phase:
The project team has been coordinating on early job activities including: shop drawing submittals, establishing job protocols, setting up the project schedule, developing the schedule of values and agreement on pay application format/processing instructions. The Contractor has mobilized the Engineer’s field office to the site and is working to get it connected to necessary utilities. Additionally, the Contractor is currently performing field preparation and survey for mobilization of equipment for the horizontal directional drill Work under Shell Creek. Pipe installation is still several weeks off due to the lag time between approved shop drawings and fabrication, coatings application and shipment of pipe.

Schedule:
The Phase 1 is scheduled for completion in the spring of 2020. The Phase 1 Interconnect Project is on schedule and budget.

• April and May 2019

Construction Phase Meetings:
Regularly scheduled Project Progress Meeting were held every 2-weeks and attended by Reynolds Construction, King Engineering, the Authority and SWFWMD. On April 11, 2019 Reynolds held a Horizontal Directional Drilling (HDD) Pre-Task meeting including the HDD subcontractor, MAXX.
Environmental Services:
The Engineer conducted the Gopher Tortoise preconstruction inspection during April. Four Gopher Tortoises have been relocated to an offsite reservation. The Engineer also held an Eastern Indigo Snake/endangered species Educational Meeting on April 26, 2019, attended by the Contractor, Subcontractors, and King and Authority field staff.

Construction:
Contractor surveyed the pipeline alignment along US-17 (north end of alignment), mobilized their pipe crews, equipment, and staged initial pipe deliveries. Reynolds began installation of the pipe during the week of May 13, 2019.

Submittals for the HDD Work have been approved by King Engineering and HDD equipment was mobilize, and tested. The HDD alignment was surveyed, and steering head guidance wires were installed. During the week of May 6, 2019 the Contractor calibrated the drill head, installed vibration monitoring equipment on the Shell Creek Reservoir Dam and began drilling the borehole. To date (May 13) the Contractor has drilled approximately 1400-lf of the borehole at the Shell Creek crossing. The Phase 1 is scheduled for completion in the spring of 2020 and is within budget.

- June and July 2019
  Construction Phase Meetings:
  Regularly scheduled Project Progress Meeting were held every 2-weeks and attended by Reynolds Construction (General Contractor), King Engineering, the Authority, SWFWMD and MAXX HDD (Horizontal Directional Drilling (HDD) Subcontractor).

  Environmental Services:
  To date, a total of eight Gopher Tortoises have been removed and relocated to an offsite reservation. During drilling operations the Contractor monitored Shell Creek in boats and from the shore for inadvertent returns. There were no occurrences in Shell Creek.

  Construction:
  Reynolds continues to install 24-inch diameter ductile iron pipe (DIP) along US-17. To date Reynolds has installed approximately 2,500-lf of pipe. Reynolds is restoring the pipeline path on a continuous basis including fine grading and sod placement. King Engineering has been conducting geotechnical testing (for compaction) as specified in the Contract Documents.

  HDD Under Shell Creek:
  MAXX mobilized to the drill site on April 23, 2019. They completed the borehole drill (initial drill 10.5-inch diameter) on May 18th. On June 3rd they completed the first ream pass (24-inch diameter), a 36-inch ream on June 18th and final ream (42-inch) on June 30, 2019. On July 6th, Reynolds completed the fusion of 3,500-ft of 30-inch (outside diameter) high density polyethylene (HDPE) pipe, performed low pressure air tests on the pipe subsequent to fusing, and staged the pipe on rollers in preparation for the pullback of the pipe into the borehole by MAXX. MAXX completed two swab passes (to remove loose sand) of the borehole on July 6th. The pullback was started on July 7th and completed July 8th. Currently MAXX and Reynolds are restoring the Work areas on the north and south sides of Shell Creek. The Phase 1 is scheduled for completion in the spring of 2020 and is within budget.
August and September 2019
Construction Phase Meetings:
Regularly scheduled Project Progress Meeting were held every 2-weeks and attended by Reynolds Construction, Ardurra (fka King), the Authority, and SWFWMD.

Change Order 1 (CO1)
Rainfall was above average during July and August. A meeting was held on August 21, 2019 to discuss unforeseen weather delays due to the abnormally wet conditions. Subsequently, CO1 was prepared for agreed upon delays. If approved by the Board, CO1 will provide the Contractor with 30-calendar days (14 days in July, & 16 days in August). This will extend the Substantial Completion and Final Completion dates to April 23, 2020 and May 23, 2020 respectively. Rainfall for July 2019 and August 2019 was 26.9 inches, 10.7 inches above the normal average of 16.2 inches for July and August.

During this period, Reynolds continued to install 24-inch diameter ductile iron pipe (DIP) along US-17. The total installed during the Project through September 5th is approximately 4,400-lf (station 56+25). Wet conditions have resulted in, shutdowns, dewatering issues, compaction, grading and restoration deficiencies. On August 15th Reynolds decided to suspend pipe installation (due to wet conditions) and resumed on August 26th. Due to the Governor’s declared, State of Emergency for Hurricane Dorian, Work was not allowed along US-17 from August 30th until September 4th. At the end of the workday on September 5th, Reynolds decided to stop installation of pipe beyond station 56+25 and to go back and repair deficiencies and complete restoration up to that station. Reynolds anticipates completion of the restoration Work by the end of September or mobilizing a second crew in the near future to complete the restoration. Currently the Contractor’s schedule reflects being 1-month behind schedule prior to the pending CO1.

The Phase 1 Interconnect Pipeline is scheduled for completion in the spring of 2020 and is within budget.

October and November 2019
Construction Phase Meetings:
Regularly scheduled Project Progress Meeting were held every 2-weeks and attended by Reynolds Construction, Ardurra (fka King), the Authority, and SWFWMD.

Change Order 1
Rainfall was above average during July and August. The Board, approved Change Order 1 on October 2, 2019 for weather delays.

During this period, Reynolds continued to install 24-inch diameter ductile iron pipe (DIP) along U.S.-17. The total pipe installed during the Project through mid-November is approximately 10,000-lf (station 111+66). Wet soil conditions have continued to result in the Contractor having difficulties with dewatering, compaction, grading and restoration. The Contractor completed the Jack and Bore (112-lf of 42-inch steel casing) under North Washington Loop Road. Currently, the Jack and Bore (78-lf of 42-inch steel casing) under the Shell Creek Reservoir, Dam Road is underway.

The Phase 1 Interconnect Pipeline is scheduled for completion in the spring of 2020.
• December 2019 and January 2020
  Permitting: The Gopher Tortoise Permit was amended with the FWC to extend the expiration date and additional as needed reservations were made at a Gopher Tortoise Relocation Ranch. To date 8-GTs have been relocated to a GT reservation.
  FDOT: FDOT conducted ROW inspections for pipe installed in the U.S.17 ROW on November 21, 2019 and January 8, 2012. Reynolds is addressing FDOT’s concerns.
  Construction Meetings: Regularly scheduled Project Progress Meeting were held every 2-weeks and attended by Reynolds Construction, Ardurra (fka King), Authority, City of Punta and SWFWMD.
  Additional Meetings: Meetings were held with Reynolds on December 19, 2019 and January 9, 2020 to discuss areas along U.S. 17, where wet soils conditions were encountered during the rainy season and the Contractor had difficulty meeting soil density requirements. The Contractor presented a recovery plan to repair as needed. On November 21, 2019 a meeting was held with Reynolds and the City of Punta Gorda to discuss SCADA coordination between the Authority and the City.
  Work Progress: During this period, Reynolds continued to install 24-inch diameter ductile iron pipe (DIP) along U.S. 17. The total pipe installed during the Project through mid-January along U.S. 17 is approximately 10,000-lf (station 121+00). The Contractor cleared and grubbed and installed silt fence along the pipe alignment on the south side of Shell Creek and installed approximately 300-ft of pipe towards the Shell Creek WTP. The Contractor also removed and replaced a defective HDPE mechanical joint adapter on the south end of the HDD under Shell Creek and pressure tested the HDD.
  To date the Contractor has completed the Jack and Bores at the following locations:
    o (112-lf of 42-inch steel casing) under North Washington Loop Road.
    o (78-lf of 42-inch steel casing) under the Shell Creek Reservoir, Dam Road
    o (39-lf of 42-inch steel casing) under South Washington Loop Road
  The Phase 1 Interconnect Pipeline is on budget and scheduled for completion in the spring of 2020.

• February through May 2020
  Gopher Tortoise: Monitoring continued, no additional GT-relocations necessary.
  FDOT: Reynolds continues to coordinate with FDOT and perform restoration work in the U.S. 17 FDOT Right of Way.
  Construction Meetings: Regularly scheduled Project Progress Meeting were held every 2-weeks and attended by Reynolds Construction, Ardurra, Authority, City of Punta and SWFWMD. Due to the coronavirus meeting have been primarily been held via Skype.
  Additional meetings were held (via Skype) with the Contractor to discuss their pressure testing, flushing and disinfection plan.
  During the period Ardurra provide additional resident project representation as needed to cover Reynolds increased work effort (multiple crews).
  Schedule Recovery Plan: Reynolds implemented their recovery plan to reinstall pipe that had deficient compaction results and had multiple crews on site and completed:
    o Reinstalling approximately 6,000-lf of 24-inch DIP along US17 that did not meet specifications
    o Connections at the Desoto County Regional Transmission Main (north end)
    o Pre-flushing approximately 14,800-lf along US17
- Connection at the Shell Creek Water Treatment Plant (south end)
- Installation an additional 9,000-ft of 24-inch pipe along US17
- Installation of 9,900-ft 24-inch along North Washington Loop Rd.
- Installation of 3,000-ft along Three Rivers Rd. and completed the connection to the north end of the horizontal direction drill HDPE pipe.
- Pipe installed this period had passing density results
- Completion of Shell Creek Meter Station and radio tower, including vendor testing of equipment, and SCADA programming

Currently the Contractor is completing installation of air relief valves, blow offs, installation of one remaining inspection manhole and tie in south of Shell Creek, and preparing for pressure testing, flushing and disinfection of the Phase 1 Pipeline.

Construction Schedule: Reynolds latest construction schedule projects them being behind schedule (about 18-calendar days) based upon Change Order 1 approved by the Board in October 2019. There is uncertainty if Reynolds can meet contractual completion dates. Per CO1 the project final completion date is May 23, 2020

The Phase 1 Interconnect Pipeline is on budget. Projected completion is anticipated late spring of 2020.
PHASE 1 CONCEPTUAL ROUTE

Existing Regional Transmission Main

Tie-In to Existing Regional Transmission Main

DeSoto County

Charlotte County

Regional Pipeline Interconnect with Punta Gorda

Washington Loop Rd

Tie-In to Shell Creek Water Treatment Facility