

Arbennie Pritchett Water Reclamation Facility Design-Build Construction Project Okaloosa County Water and Sewer Department



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Okaloosa County, Florida selected Constantine Engineering, Inc, as their Program Manager when it decided to implement a program to construct a new 10 million gallon per day (mgd) water reclamation facility (WRF), the Arbennie Pritchett WRF. The new WRF will replace the aging 6.5-mgd Garniers Wastewater Treatment Plant. The new WRF is being constructed on leased property located on Eglin Air Force Base that is currently used by the Okaloosa County Water and Sewer Department (OCWS) for disposal of treated effluent from the existing Garniers WWTP.

Constantine Engineering is managing the \$65 million dollar program that includes the construction of the new Arbennie Pritchett WRF, a new 25 mgd re-pumping station to convey flow from the existing WWTP site to the new WRF site, a new 200 acre rapid infiltration basin (RIB) effluent disposal system, construction of more than 10 miles of new 8-inch to 36-inch diameter raw sewage and effluent piping, and decommissioning and demolition of the existing Garniers WWTP. OCWS chose to implement the construction of the new 10 mgd

WRF using the Design-Build (D-B) project delivery approach, in accordance with the Consultant's Competitive Negotiation Act (CCNA), Florida Statute s, 287.055. Using this approach, the County expects to secure substantial benefits for its customers, including timely and efficient scheduling, optimal risk allocation, competitive design selection, and innovation, clear assignment of performance responsibilities to a single contracting entity, and long-term WWTP reliability and life-cycle cost savings.

The new WRF will be designed to treat an influent average daily flow of 10 mgd and a peak hourly flow of 25 mgd. Provisions for future expansion to 15 mgd and 37.5 mgd respectively, also are included in the during the design.

Constantine Engineering also was responsible for overall permitting of the new WRF, modifications to the existing WWTP permit, managing the design build team selection process, design and construction management, public involvement, and negotiations with the Air Force for the new WRF site lease.

Constantine Engineering was contracted to serve as the Program Management Consultant for this Project and is responsible for coordinating all activities associated with the implementation of the Program, including:

- *Construction of the Arbennie Pritchett WRF*
- *Construction of the 200-acre RIB system*
- *Construction of the 25-mgd re-pumping station*
- *Construction of the collection system modifications*
- *Decommissioning of the existing Garniers WWTP*



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