

Services Provided

Civil Design
Environmental

Date of Completion

On-going

Client

DFW

Project Designer

Steve Hardy PE

Project Manager

Steve Hardy PE

DFW Reclaimed Water Line Extension, DFW Airport, TX

AZ&B was part of a consultant design team tasked with the design of Phase 1 of DFW Airports Reclaimed Water Distribution System. AZ&B was responsible for the design and plan production for seven miles of reclaimed water pipeline that ranged in size from 12-inch PVC to 36-inch ductile iron pipe. The reclaimed water system was designed to receive reclaimed water from the City of Fort Worth, store it on Airport grounds and distribute it to the rental car facility, Central Utility Plant and Bear Creek Golf Course. The project was designed under an accelerated schedule in order to meet the Airport's time commitment to buy reclaimed water from the City of Fort Worth.

- ✓ AZ&B performed field surveys for portions of the project and conducted an alignment study to determine the most economical alignment for the proposed pipelines. Future extension of the proposed system, existing features and future Airport projects were taken into account in the alignment analysis.
- ✓ AZ&B then performed plan and profile design of a 20-inch main that connected the City of Fort Worth's delivery point to the Airport's storage tank and pump station.
- ✓ AZ&B designed the pipe systems of various sizes and materials to carry reclaimed water from the pump station to the Rental Car facility area and to the utility tunnel entrance just south of the terminal area.
- ✓ AZ&B collected and analyzed Airport electronic mapping files, As-Built information, reports and other information regarding the project area.
- ✓ AZ&B prepared plans to convert the existing 12-inch potable water line to reclaimed water use. These mains are located outside of the proposed storage tank/pump station facility and lie south, north and east of those facilities.
- ✓ AZ&B prepared a traffic control plan for the project.
- ✓ A Storm Water Pollution Prevention Plan was completed for the project.
- ✓ Construction sequencing plans were developed taking into consideration airport site conditions and existing utilities.

