Project: 48-inch Parallel Transmission Main Replacement

Description

This project includes the installation of approximately 5,000 feet of 48-inch or larger transmission main pipe adjacent to the existing 48-inch concrete steel cylinder piping. The contractor shall install fittings to connect the new section with the existing at each extent of the project. The pipe being replaced will be abandoned.

Purpose

About two-thirds of all the water produced at the Belton Water Treatment Plant is delivered via a 48-inch pipeline that terminates near Fort Hood Street and Veterans Memorial Boulevard. All the pipe ruptures experienced on the 48-inch line except for two have occurred within this 5,000-foot section of the 14 miles of 48-inch transmission main. One leak occurred within the military base and the other exception involved construction work in which the pipe was damaged. A leak on this line results in significant loss of delivery capacity, water rationing and in extreme cases boil water advisories. This project includes replacing this troubled section with a sturdier pipe that's not prone to catastrophic failure if damaged. This project will significantly minimize the potential for water outages which have become a common occurrence on this line in recent years.

Cost Estimate

$9,000,000

Status

The engineering design provided by CDM Smith is near 90% complete.

Look Ahead Schedule and Activities

A meeting will be scheduled with Fort Hood Department of Public Works to discuss the preliminary design. Next steps will be to seek formal approval from Fort Hood and the US Army Corps of Engineers Real Estate Section. Each participating entity has been informed of the progress and asked to fund this project in the Fall of 2023.

Participation

All the WCID 1 entities except for Belton have capacity interest in the "Killeen Transmission System". Participation for infrastructure replacement is based on each entity's capacity interest*.

*See Capacity Interest link on home page of this tab.