

Construction Method: Auger Bore

Project: Willamette Water Supply Project
PLW 1.0

Location: Hillsboro, OR



Job Scope:

- ❖ Trenchless Feasibility Study
- ❖ Trenchless Alignment Study and Profile
- ❖ Geotechnical Risk Evaluation
 - ❖ Auger Bore Specifications
 - ❖ Submittal Review and RFI Response



Project Description:

Staheli Trenchless reviewed and evaluated the alternative alignments and trenchless methods for crossing Tualatin Valley Highway (State Highway 8) and Union Pacific Railroad. The concept planned for the crossing included a 400-foot long pipe jacking segment. Depending on profile depth, the trenchless work was estimated at more than \$1 million. To reduce project costs and risks, alignment options were further considered to reduce the trenchless crossing length to under 300 feet so that auger boring could be feasible. Further geotechnical explorations and review of geotechnical and groundwater conditions resulted in a 270-foot auger bore as the selected method for the trenchless crossing. Specifications were prepared for auger boring along with related shaft excavations and settlement monitoring requirements. Project bids were received in December 2016 and the successful low bidder included \$392k for auger boring of the 60-inch steel casing installation and owner-provided 48-inch welded steel carrier pipe. Shaft excavation work and casing installation began in May 2017. The casing installation was successfully completed in June 2017 on line and grade, with minimal to no settlement.



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