

Construction Method:
Pipe Ramming



Project: Olympus Meadows Trunk Water and Sewer Improvements, Alderwood Water and Wastewater District

Location: Bothell, Washington

Date: 2010-2016

Job Scope:

- ❖ Trenchless Feasibility
- ❖ Construction Inspection
 - ❖ Risk Analysis
 - ❖ Design Review
 - ❖ Submittal Review



Project Description:

Staheli Trenchless Consultants assisted Alderwood Water and Wastewater District with the design and construction of two trenchless pipe ram crossings in Bothell, WA. The first crossing consisted of 151 feet of 84-inch steel casing beneath a major highway, SR-527; the second consisted of 86 feet of 84-inch steel casing beneath Silver Creek and 196th St. SW, a heavily used arterial. These casings house water and sewer lines and were installed in highly-challenging soil conditions that contained high-strength cobbles and boulders in glacial outwash.

STC participated in the development of design criteria for the selection of the preferred installation methodology and detailed the risks associated with each trenchless option, working with the District to establish a shared risk profile for the project. STC performed an independent review of the design specifications, drawings, and prepared a Geotechnical Baseline Report prior to bid. STC also provided full-time specialty construction management and inspection services for this project. Both trenchless crossings were successfully completed in 2016.



Reference:

Paul Richart P.E.,
Alderwood Water and
Wastewater District.
(425) 741-7967.