



**Construction Method:**

**Open Shield Pipe Jacking  
Auger Boring**

**Project:**

**Martha Lake Gateway/I-5  
Crossing, Alderwood Water  
and Wastewater District**

**Location:**

**Lynnwood, Washington**

**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 crossings in Lynnwood, WA. The first crossing consisted of 550 feet of 66-inch casing installed beneath Interstate 5 by open shield pipe jacking; the second consisted of 200 feet of 42-inch casing installed beneath a major arterial street using auger boring.

STC participated in a workshop identifying the preferred trenchless technology, and performed an independent review of the design specifications, drawings, and Geotechnical Baseline Report prior to bid. Special attention was given to the baselines and measurement and payment language to address the known risk of boulders and cobbles anticipated to be encountered during the crossing of Interstate 5. STC worked with the District and the Design Team to develop baselines that would effectively share risk while keeping bid costs competitive. STC performed full-time specialty construction inspection during both crossings and assisted the District in evaluation of change orders based on the contract language.



**Staheli Trenchless  
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