



Construction Method: Horizontal Directional Drilling

Project: Dakota Creek Crossing Water Main Replacement

Location: Whatcom County, Washington

Job Scope:

- ❖ Feasibility Study
- ❖ Plan and Profile Preparation
- ❖ Cost Estimates
- ❖ HDD Specifications

Project Description:

Staheli Trenchless Consultants evaluated the feasibility of using horizontal directional drilling to install a 22-inch diameter HDPE water supply pipeline crossing underneath Dakota Creek. The project will increase water supply capacity to the city of Birch Bay by replacing the existing 10-inch diameter pipeline which currently passes over the creek at surface level. STC performed plan and profile design, cost estimates, and prepared HDD specifications for the project.



Challenges to design include the high probability of encountering boulders and other obstructions due to glaciomarine drift deposits, soft soils, and the possibility of hydrofracture underneath Dakota Creek.



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