

# STAHELI

## trenchless consultants

**Construction Method:** Horizontal Directional Drilling

**Project:** View Ridge/Leschi Conduit Installation for Cable Replacement

**Location:** Seattle, Washington

**Date:** 2012-present

**Job Scope:**

- ❖ Feasibility Study
- ❖ Trenchless Specifications
- ❖ Plan and Profile Review
- ❖ Hydrofracture Analysis
- ❖ Pull Force and Stress Analysis
- ❖ Specialized Construction Management

**Project Description:**

The View Ridge/Leschi Project will replace approximately 27,000 lineal feet of underground electric cable through the installation of 4-inch diameter PVC conduit using horizontal directional drilling technology. Once the conduit is installed, 26kV cable will be pulled into the protective conduit by Seattle City Light crews.

STC performed the trenchless design of over 72 HDD segments for the five miles of conduit. The designs included hydrofracture and pull force and stress analysis to establish bore depths and geometry in the narrow neighborhood streets with congested existing utilities. STC developed a tailored HDD specification to accommodate the numerous HDD segments, each with their own unique challenges. STC provided specialized construction management throughout the project, reviewing and responding to submittals and requests for information.

**Reference:**

Dan Crevensten, Seattle City Light (206) 386-9884.

