

STAHELI trenchless consultants

Construction Method:

Horizontal Directional Drilling

Project: **Magnolia CSO Control Project,
King County**

Location: **Seattle, Washington**

Date: **2011-2015**

Reference:

Leon Maday, King County.
(206) 477-5603.

Job Scope:

- ❖ Trenchless Feasibility
- ❖ Trenchless Design
- ❖ Risk Analysis
- ❖ Cost Estimates/Schedules
- ❖ Bid Document Preparation
- ❖ Construction Support



Project Description:

Staheli Trenchless Consultants provided design services for the installation of 2,700 feet of 32-inch gravity sewer up to 165 feet beneath a highly sensitive bluff with a maximum slope of 1.8%. During pre-design, King County selected HDD for the installation of the conveyance pipeline, which would result in one of the largest on-grade HDD installations ever constructed. After pre-design, it was decided to include Direct Pipe as an alternative to HDD construction due to recent advances with the Direct Pipe technology. STC led the design for both the HDD and the Direct Pipe alternatives, which were ultimately bid against each other in order to secure the most competitive bids. This has included extensive risk evaluation, preparation of cost estimates and construction schedules, construction layout areas and all aspects of trenchless pipeline constructability and design. Construction on this project is scheduled for mid-2014.

