

## Construction Method: Pipe Bursting

**Project:** SW Orleans St. Emergency Repair

**Location:** Seattle, WA



### Project Description:

Staheli Trenchless Consultants provided design and construction services for the emergency repair of an 8-inch combined sewer vitrified clay pipe. The existing combined sewer had a collapsed section of approximately 8 feet, creating a void of unknown size directly below the east bound ramp to the West Seattle Bridge. There was concern that the collapsed pipe and resulting void could propagate to the road deck and result in settlement of the West Seattle Bridge. STC developed risk profiles for feasible pipeline replacement methods in-lieu of rerouting the pipeline with open trenching. Ultimately, a pipe reaming style pipe burst using an HDD rig was selected to replace the existing pipe with 8-inch ductile iron pipe, keeping project costs and risk exposure to a minimum. STC worked with the SPU design team and the trenchless contractor to overcome the challenges of working under a major thoroughfare that could not be shut down and with minimal impact to adjacent residents and businesses. STC also provided specialty on-site inspection and the trenchless work was successfully completed within two days of the rig being mobilized..

### Job Scope:

- ❖ Trenchless Feasibility Study
- ❖ Trenchless Alignment Study and Profile
- ❖ Risk Evaluation
- ❖ Pipe Bursting Plans and Specifications
- ❖ Construction Phase Services
- ❖ On-site inspection



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