



# Technical Memorandum #4



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**Subject:** Existing Site Utilities

**By:** Adam Isaacson, P.E.

**Date:** May 12, 2017

This design memorandum presents criteria, recommendations, and other relevant information for project consideration on the above referenced subject.

## Acknowledgement:

Significant discussion and agency comments during review are incorporated and reflected by date-revision, when shown. Information presented herein represents final concurrence and direction on referenced subject.	<u>Otak</u>	<i>initials</i>
	Mark Cole, PE, Proj.Mgr.	
	<u>F.C.M.P.D.</u>	<i>initials</i>
	Kirk Harris, Commissioner	

## Introduction

The purpose of this design memorandum is to provide a summary of the utility providers and existing utility facilities within the West Side Trail project area.

## Utility Investigation

The general One-Call Notification Center was contacted to identify utility providers within the project vicinity. The response from One-Call indicated the presence of the following utility providers:

- Comcast
- CenturyLink
- Puget Sound Energy, Gas and Electric
- Fall City Water District (formerly KCWD #127)
- King County DOT
- WSDOT – Signal Branch Office
- Snoqualmie Valley School District (SVSD 410)

Each provider was contacted to obtain utility maps on location of their utilities, either below or above ground. Response was received from CenturyLink, Puget Sound Energy, Fall City Water District, and King County DOT all verifying they had utilities along the proposed project. CenturyLink has underground lines, including fiber optics; Fall City Water District has PVC main; and Puget Sound Energy has underground gas and overhead power with areas of underground services. King County has authority over certain storm drain location. The WSDOT Signal Branch Office and SVSD 410 indicated they had no facilities within the project area. No response or record information was received from Comcast.

### Existing Utility and Provider Contact Information

- Potable Water - Fall City Water District  
33015 SE 43rd St., Fall City, WA 98024  
Terri Divers, Manager, Ph. (425) 222-7882
- Communication - CenturyLink  
Doug Graves, Access Engineer II  
Ph. (206) 733-8863; Doug.Graves@centurylink.com
- Gas and Electric - Puget Sound Energy  
355 110th Avenue NE, Bellevue, WA 98004  
MapRequest@pse.com; Ph. (425) 456-2511

A utility locating service field marked the approximate horizontal locations of the underground utility lines within the project area. These utility marks were field survey, in addition to utility poles and other above ground utility appurtenances, and reflected on the design base maps. No potholing or investigation to determine the depth of underground utilities was conducted.

### Existing Utility Evaluation

#### Potential Conflict Assessment

The existing utility basemap information was reviewed relative to the proposed trail alignment to identify potential conflicts and design considerations. Potential conflicts of each utility along the proposed project are presented in Table 1.

#### Design Consideration/Solution

Based on the existing utility assessment, design considerations relative to proposed trail's impact on each known utility within the project area are summarized below.

#### Electric (Puget Sound Energy)

- All existing overhead power and services will be maintained.
- Three utility poles, near stations 28+75, 33+00, and 35+75 require relocating due to either being located in proposed curb ramp or to maintain drainage and clearance from SR 202

roadway.

#### Gas (Puget Sound Energy)

- All existing gas services will be maintained.
- The exact location (potholing) of underground gas lines will be determined during further exploration, if necessary.
- Underground gas lines are located in or near the footprint of the proposed trail. Assuming customary depth, minimum cover depth on the utility will can be maintained and therefore it is anticipated that no relocations will be required. These existing lines will be protected during construction.
- Surface features, such as gas valve covers exist within the footprint of the proposed trail and will be adjusted to the finished grade as a part of proposed trail construction.

#### Water (Fall City Water District)

- Existing water mains and service to all properties along the project corridor will be maintained.
- Underground water lines are located in or near the footprint of the proposed trail. Assuming customary depth, minimum cover depth on the utility will can be maintained and therefore it is anticipated that no relocations will be required. These existing lines will be protected during construction.
- Two (2) fire hydrants, near stations 33+50 and 40+25, will require relocation.
- Surface features, such as water meters and valves exist within the footprint of the proposed trail and will be adjusted to the finished grade. However, multiple fire hydrants will require relocation beyond the footprint of the proposed trail.

#### Communications

- All existing communications services will be maintained.
- Underground lines are located in or near the footprint of the proposed trail. Assuming customary depth, minimum cover depth on the utility will can be maintained and therefore it is anticipated that no relocations will be required. These existing lines will be protected during construction.
- One underground vault, near station 24+50, lies within the trail's footprint and requires modifying to conform to trail elevations.
- Four (4) riser pedestals, located near stations 29+75, 35+75, 46+50, and 47+25, lie within the trail's footprint and require relocating.
- Any other surface features within the project footprint will be adjusted to finished grade.

## Conclusions and Recommendations

There are several potential utility conflicts occurring along the proposed alignment. Methods of mitigation or relocation of these facilities will be reconfirmed during final design. It is recommended that early in final design:

1. Continue communications with agencies during early stages of final design to verify existing utility conditions and discuss requirements of known anticipated relocations.
2. Perform potholing to verify depth of those utility line locations deemed critical to project's final design considerations.

## Exhibit \_\_\_\_

### Significant Discussion Topics during Agency (Client) Memorandum Review

The below summary represent relevant discussion occurring during agency memorandum review in validating presented information and incorporating memorandum changes to reflect final agency direction.

*[To be completed at time of final concurrence]*