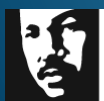


Lake Hills Trunk and Northwest Lake Sammamish Interceptor Sewer Project and Recycled Water Component

Presented to
MWPAAC Engineering and Planning Subcommittee
June 1, 2017



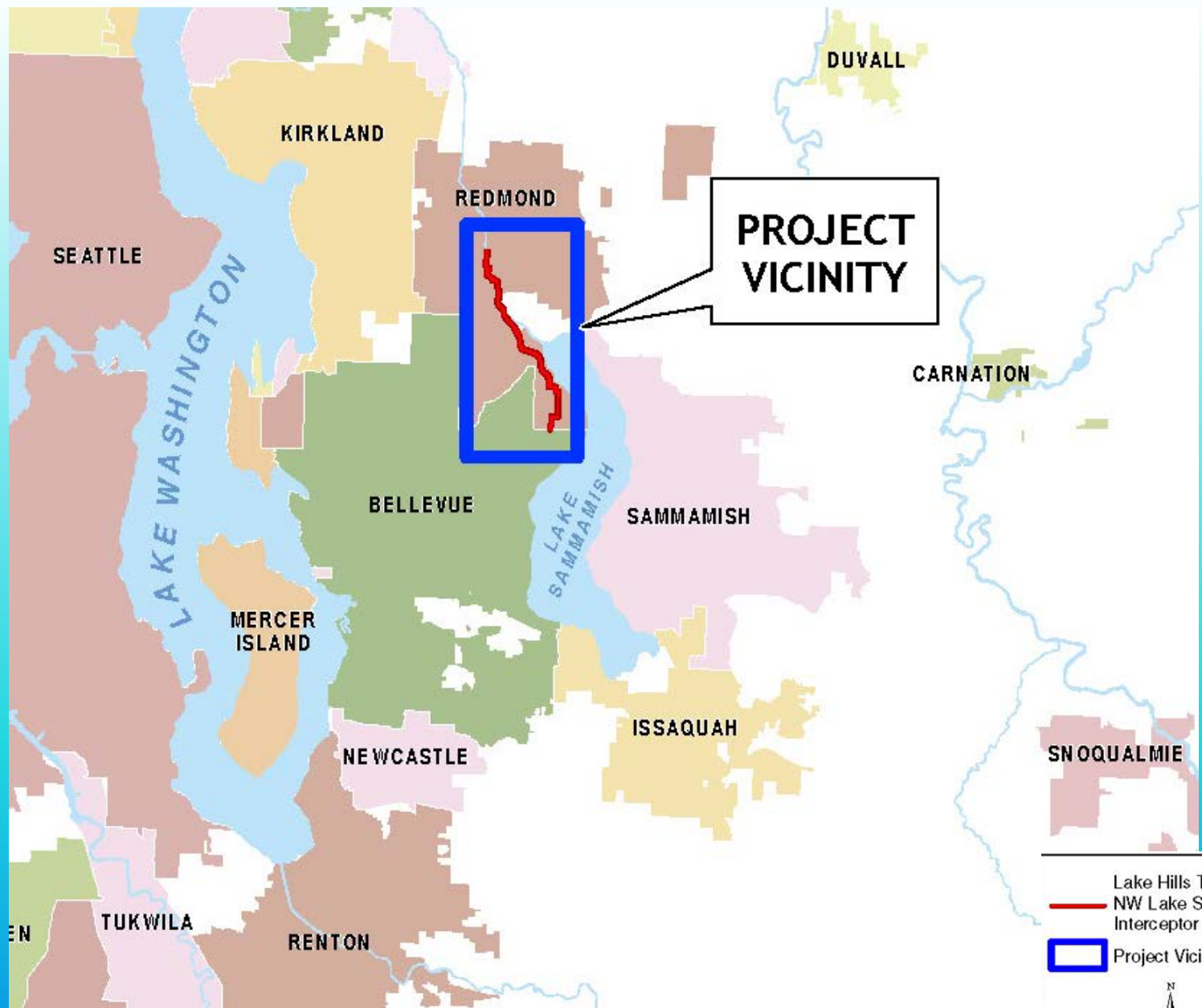
King County

Department of Natural Resources and Parks
Wastewater Treatment Division

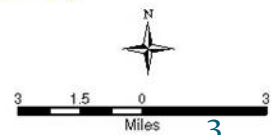


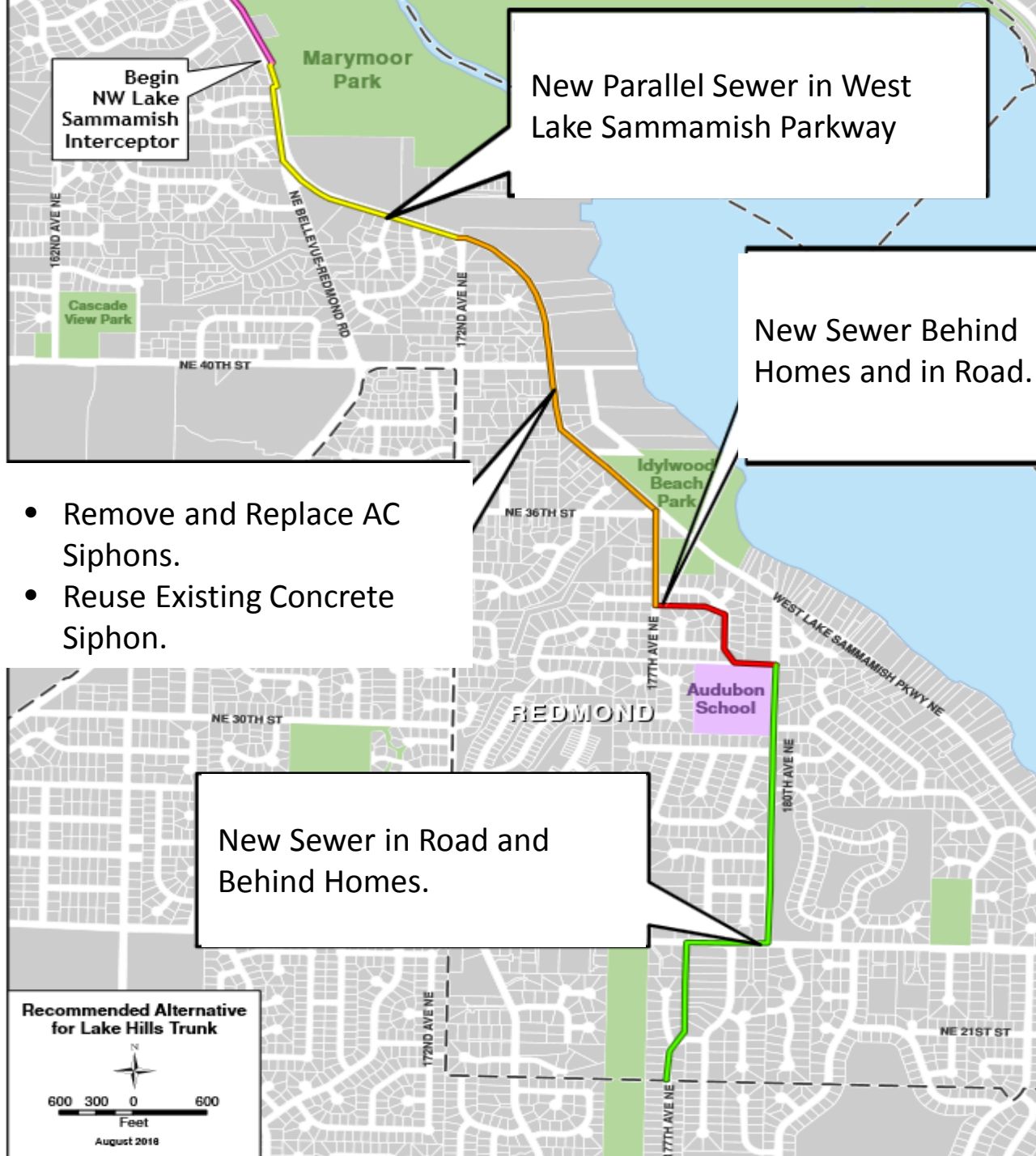
Project Objective

Upgrade the capacity of the Lake Hills Trunk and Northwest Lake Sammamish Interceptor to convey 20 year peak flows through the year 2060.



- Lake Hills Trunk &
NW Lake Sammamish
Interceptor
- Project Vicinity





Constraints/Assumptions

- Follow existing alignment
- Decommission pipes in place
- Remove and replace AC Siphons
- Consider existing pipe condition and level of service
- Maintain access to busy parks & trails
- Develop workable traffic control plan
- Limited land acquisition
- Known archaeological sites
- Critical areas; wetlands, streams, Sammamish River crossing

NW L. Sammamish Interceptor



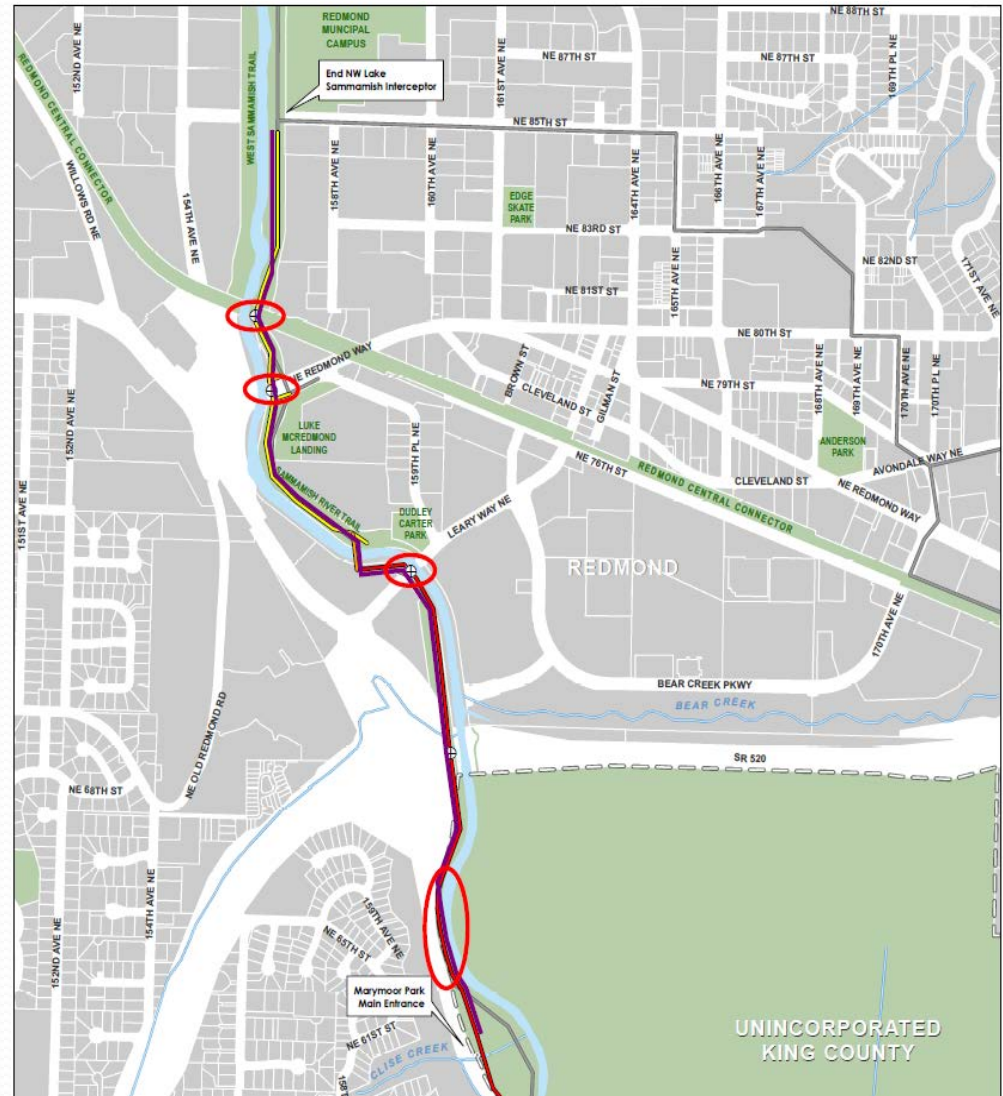


Brightwater Recycled Water System

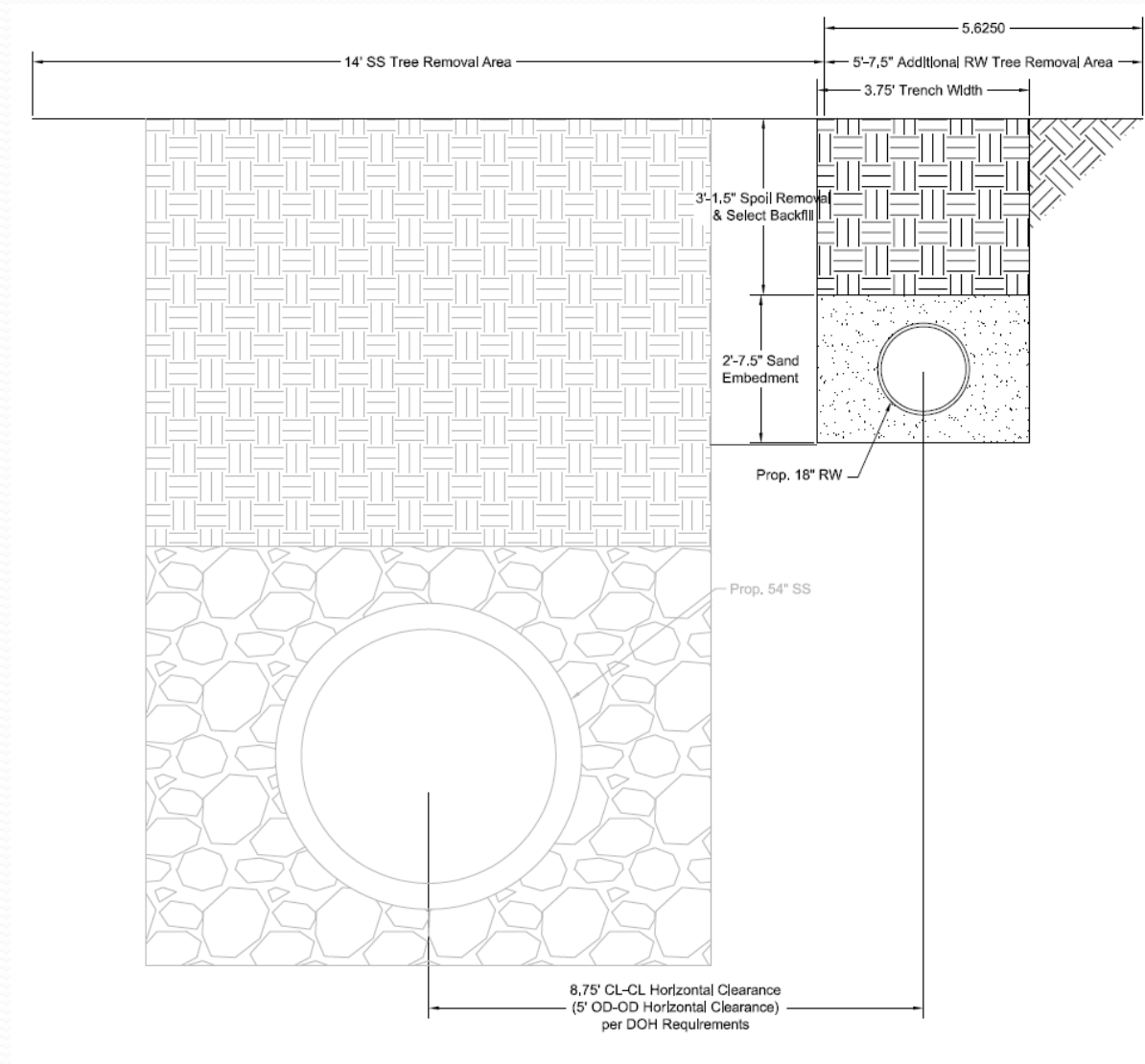


Recycled Water Alignment

- 18" ductile iron pressure pipe
- Roughly 7000 lineal feet of pipe (1.3 miles)
- Roughly 0.8 miles for future connection

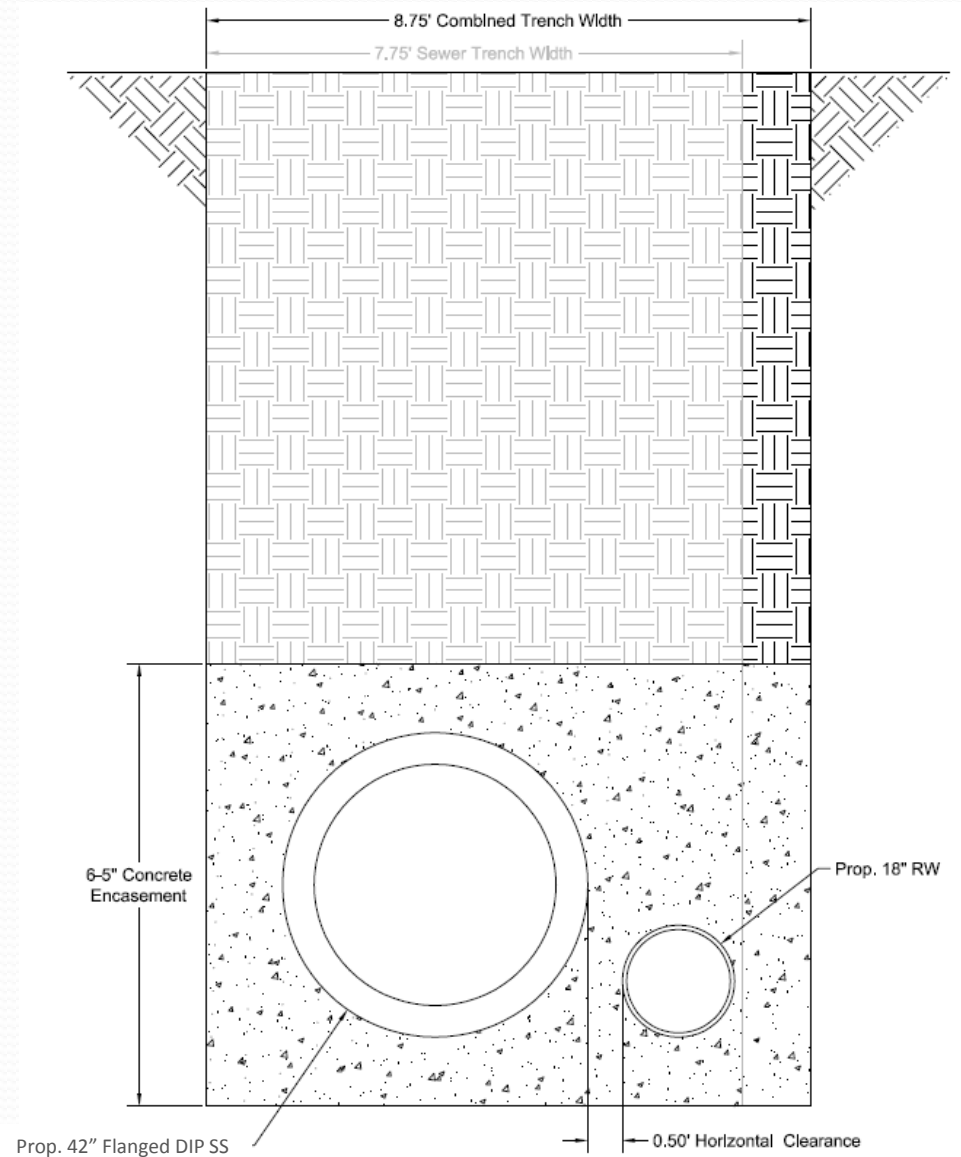


Conceptual Trench - Typical Section

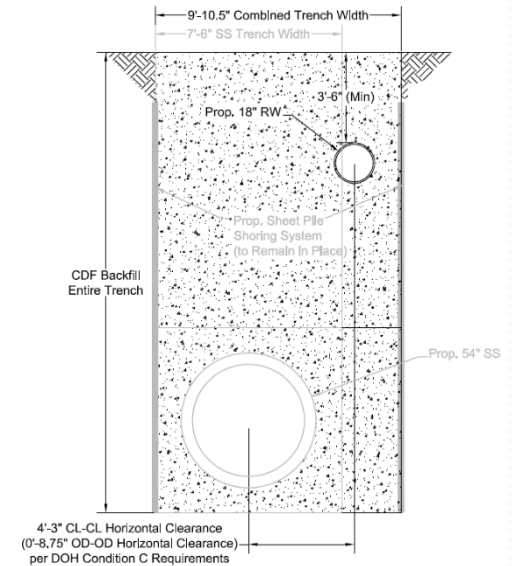
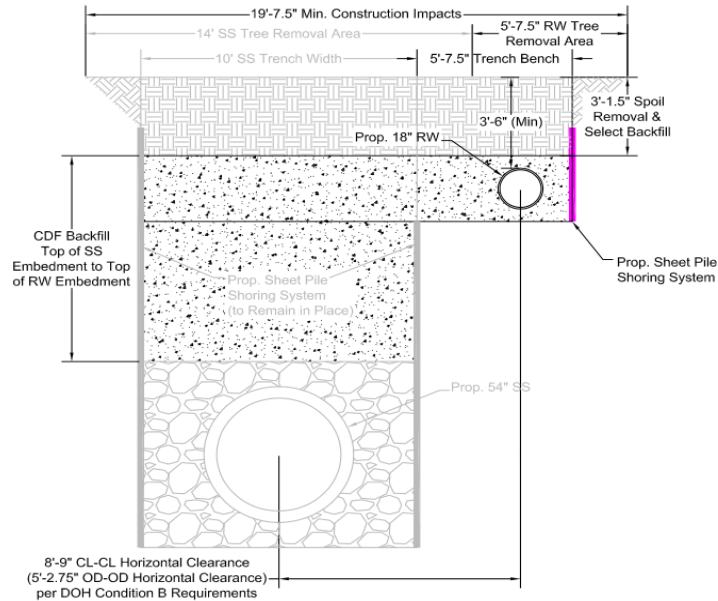
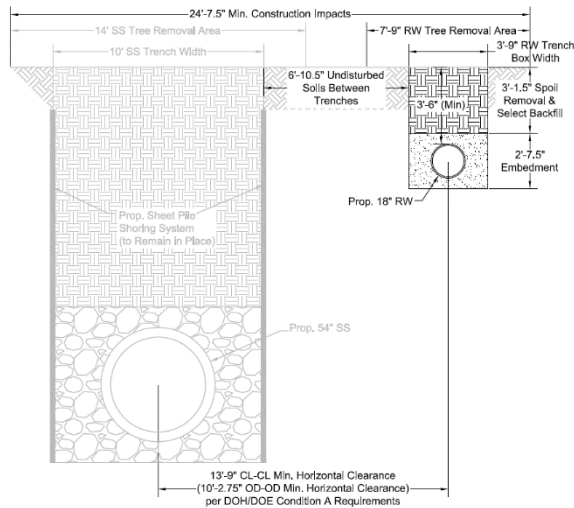




Conceptual Trench - Critical Design Areas



Alternate Trench Sections Under Consideration



Incorporating Recycled Water Component Creates Efficiencies

- Design
- Construction
- Environmental/Cultural
- Permitting

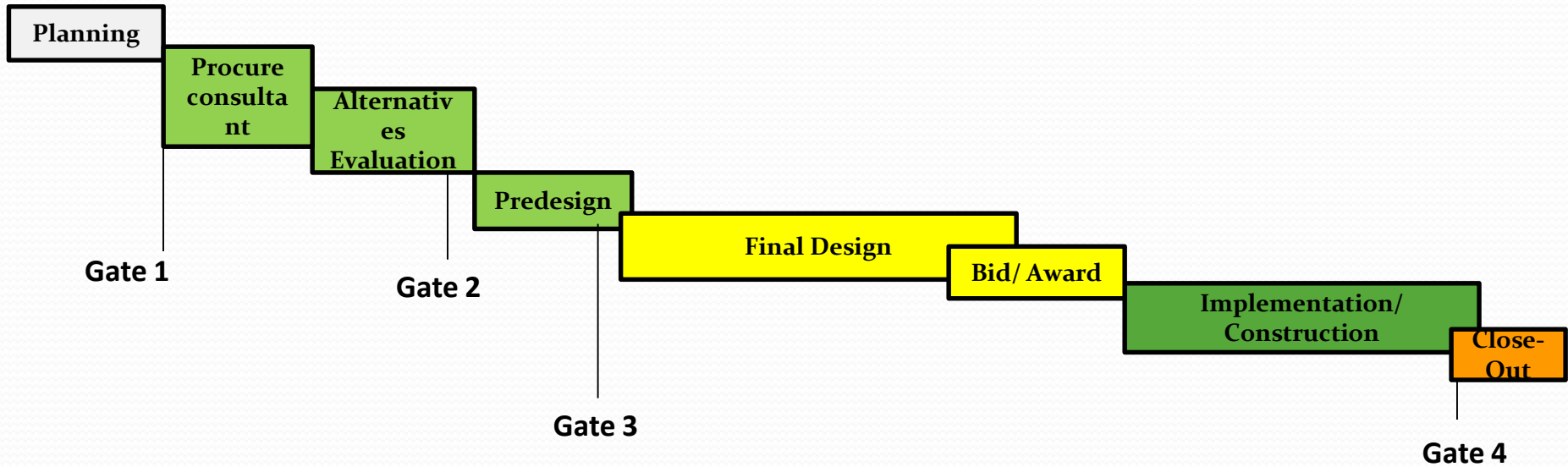
Recycled Water Conceptual Cost Estimate (2017 dollars)

Description	Cost Estimate
Total Direct Construction Costs	\$3.7 M
Non-Construction Costs Subtotal	\$1.2 M
Project Contingency	\$1.2 M
Estimated Conceptual Total Project Costs	\$6.1 M

Lake Hills Trunk and Northwest Lake Sammamish Sewer Upgrade
Project Cost Estimate is \$93.6 M (2017 dollars).

Estimated Schedule

2014	2015	2016	2017	2018	2019	2020	2021-23
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Phase 1	Phase 2	Phase 3	Phase 4	Phase 5
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Questions?

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