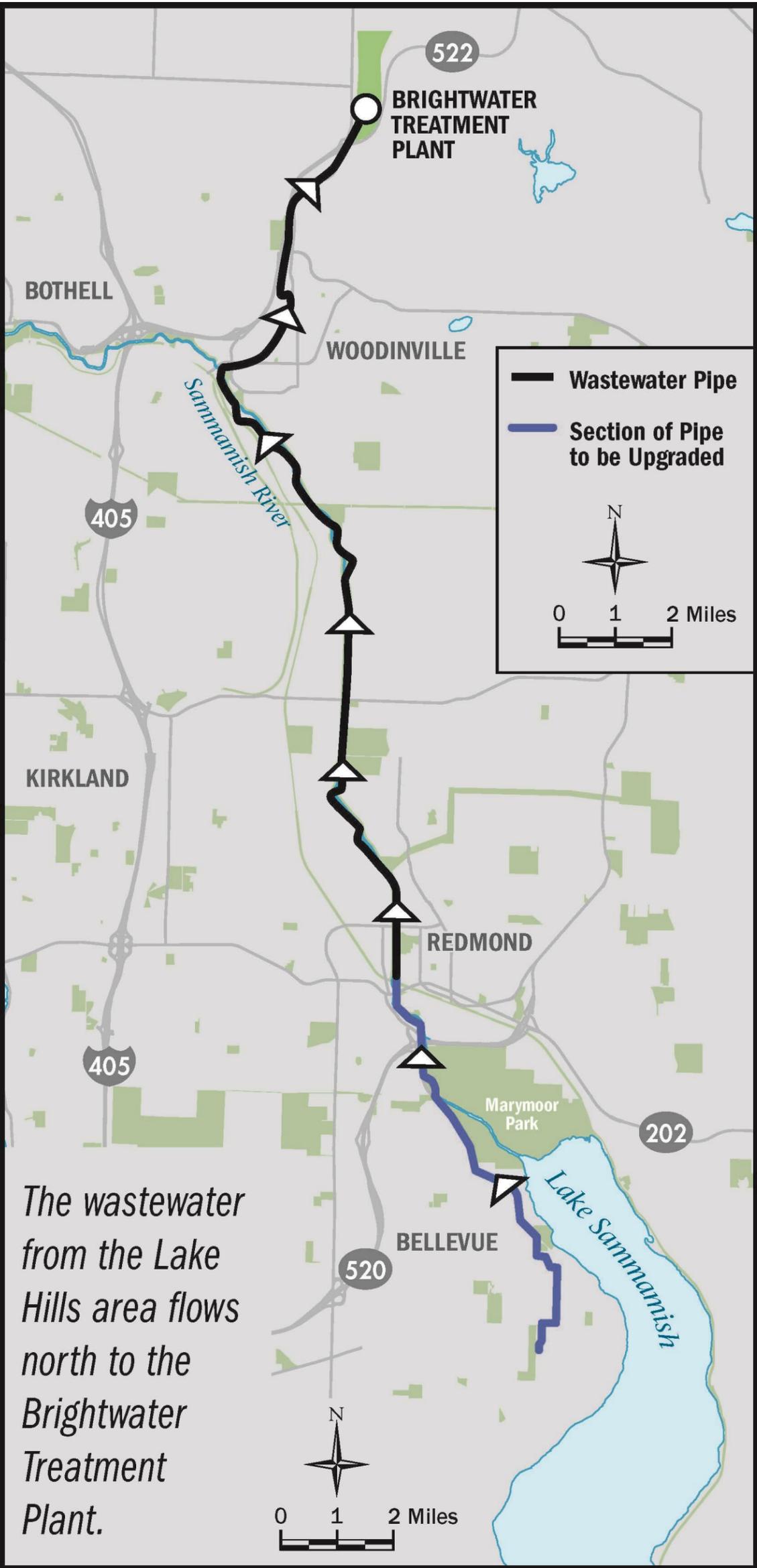




Lake Hills and NW Lake Sammamish Sewer Upgrade Project

Project overview

King County's Lake Hills and NW Lake Sammamish sewer system has been serving Redmond and Bellevue for 50 years. King County needs to upgrade about 4.5 miles of the sewer line to meet the needs of the growing Redmond and Bellevue communities as the existing sewer line nears the end of its service life.



Project cost and regional funding
 The project is fully funded. Since the sewer system is regional, everyone contributes into a pool of money for projects like this as part of their current sewer bill. Ratepayers will not see an increase in their sewer bill as a result of this project.



Lake Hills and NW Lake Sammamish Sewer Upgrade Project

Project timeline

Construction of the Lake Hills and NW Lake Sammamish Sewer Upgrade is scheduled to begin in 2020. When work is complete, the new sewer pipe will be ready to serve your community for another 50 years or more.

Lake Hills/NW Lake Sammamish Sewer Upgrade *TIMELINE*



☆ Community Involvement Opportunity



Lake Hills and NW Lake Sammamish Sewer Upgrade Project

Project area



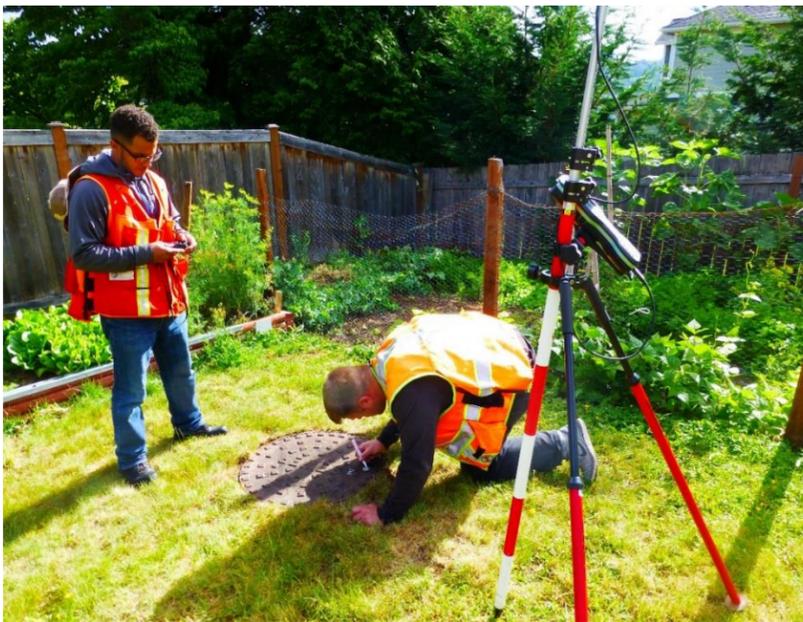


Lake Hills and NW Lake Sammamish Sewer Upgrade Project

How we design

Our goal is to design a system that provides safe, reliable sewer service for 50 years or more. Initial design drawings for the project were completed in early 2017. As the team works to further develop and refine the design, we'll be considering:

Physical constraints and opportunities



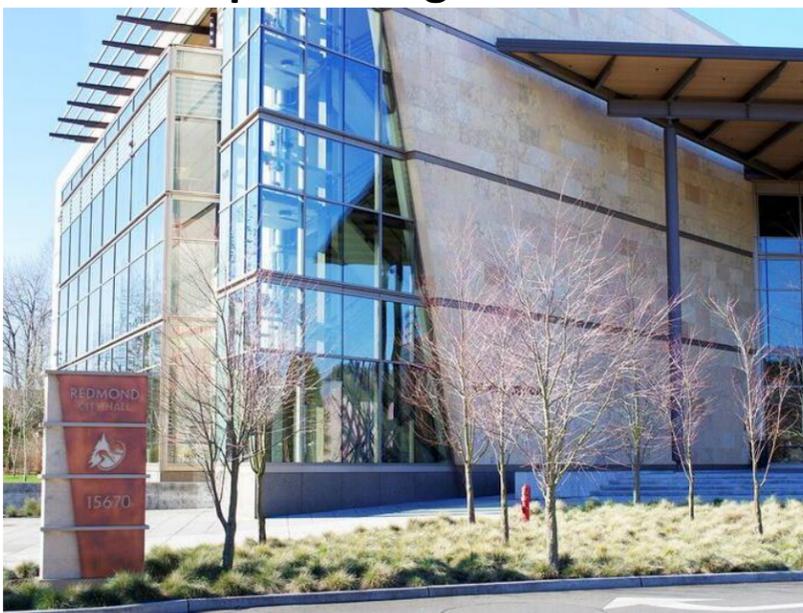
We have been conducting fieldwork and other studies to develop an initial understanding of the physical conditions along the route, including soils, groundwater levels, slopes, existing utilities and other structures. Additional fieldwork will be conducted during final design.

Environmental review and permit requirements



We are taking an inventory of the natural and built environment near the project area. We will use this information to minimize disruptions during construction and plan for restoration. Some of these plans are required before King County can acquire the permits needed for this project.

Direction from local government and partner agencies



The project team meets regularly with local jurisdictions, including the City of Redmond, and partner agencies to get feedback on the developing design. We will continue to work with our partners during final design.

Your input



We recognize that you know your community best. We want to hear from you about what we should be keeping in mind as we continue developing our design.



Lake Hills and NW Lake Sammamish Sewer Upgrade Project

What we've heard from you

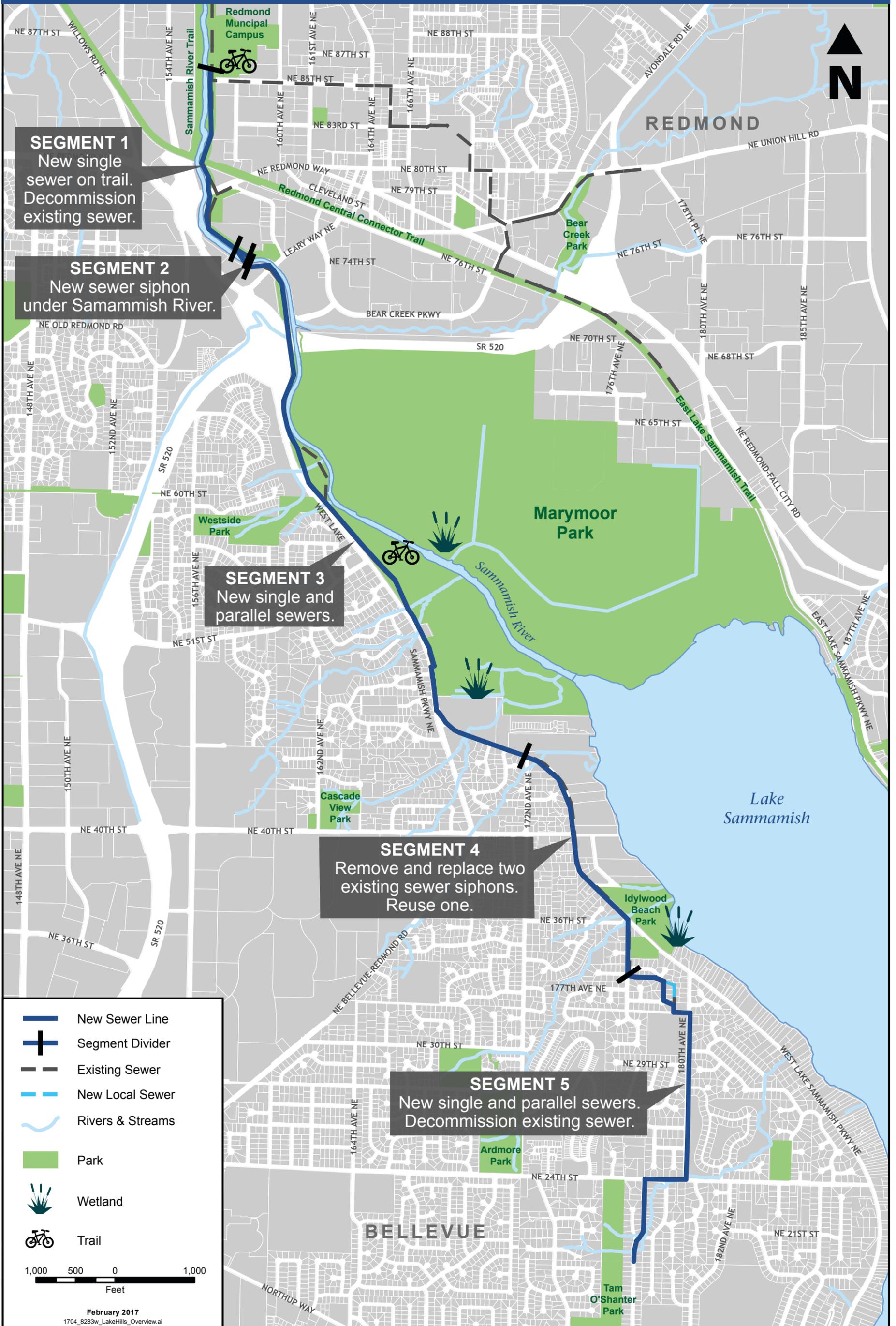
We are committed to keeping you informed of project progress and incorporating your input into the project design wherever possible. Here is a look at some of the key feedback we have heard from you so far:

Community feedback to-date

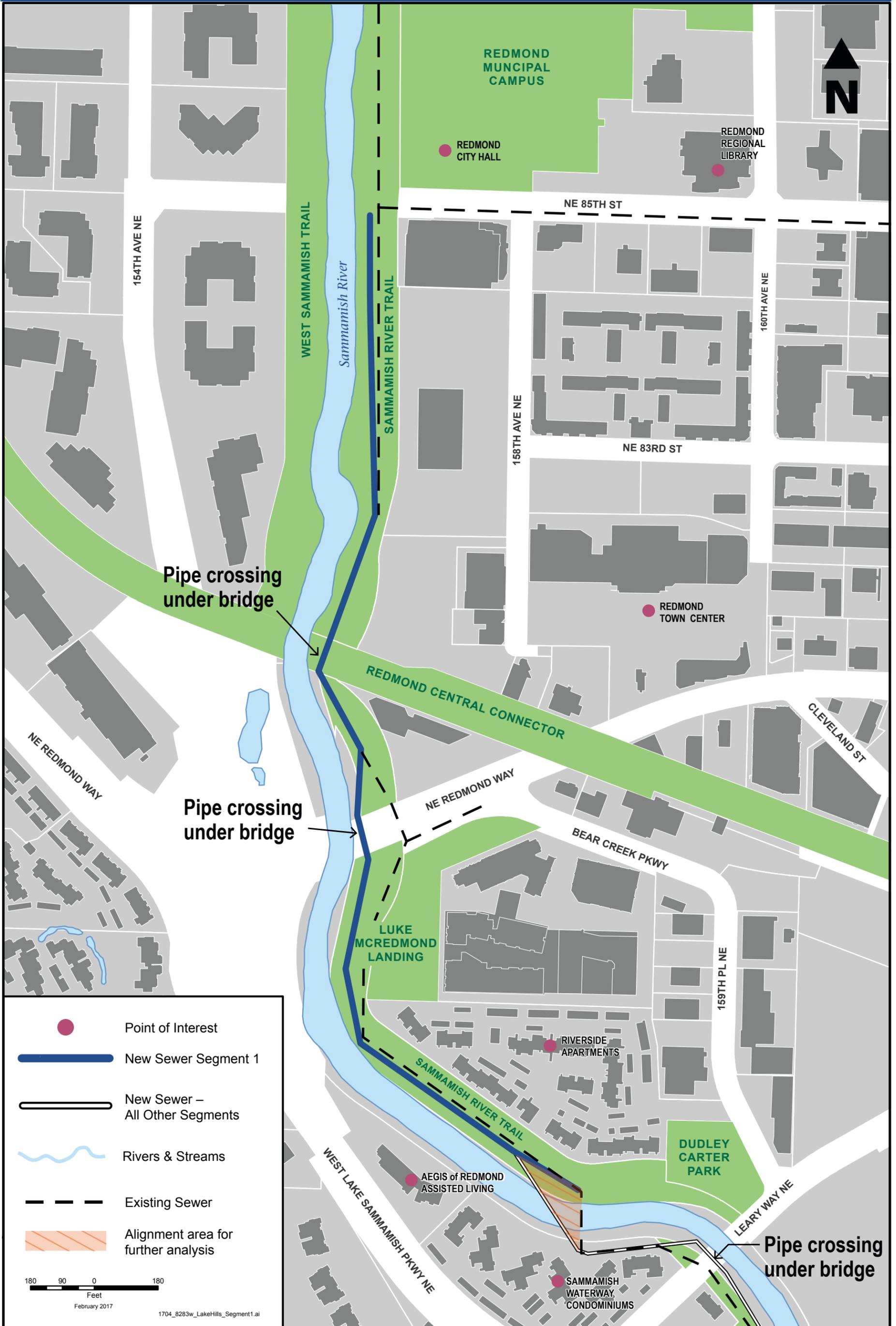
	Limit disruptions to West Lake Sammamish Parkway and the Sammamish River Trail. Find safe, efficient detour routes for those driving, cycling or walking along these routes
	Maintain access to Marymoor and Idylwood parks and the Sammamish River for recreation, especially during the busy summer months
	Identify and avoid sensitive plant and animal habitats in the area
	Minimize work on private property
	Coordinate with Audubon Elementary and limit construction near the school during the school year
	Coordinate with the City of Redmond and Sound Transit on other projects in the area, including the Redmond Central Connector and the East Link Extension

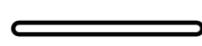
What else should we be thinking about? Please let us know by filling out a comment form or contacting Kelly Foley at kelly.foley@kingcounty.gov or 206-477-8621

Lake Hills / NW Lake Sammamish Sewer Upgrade Project Area



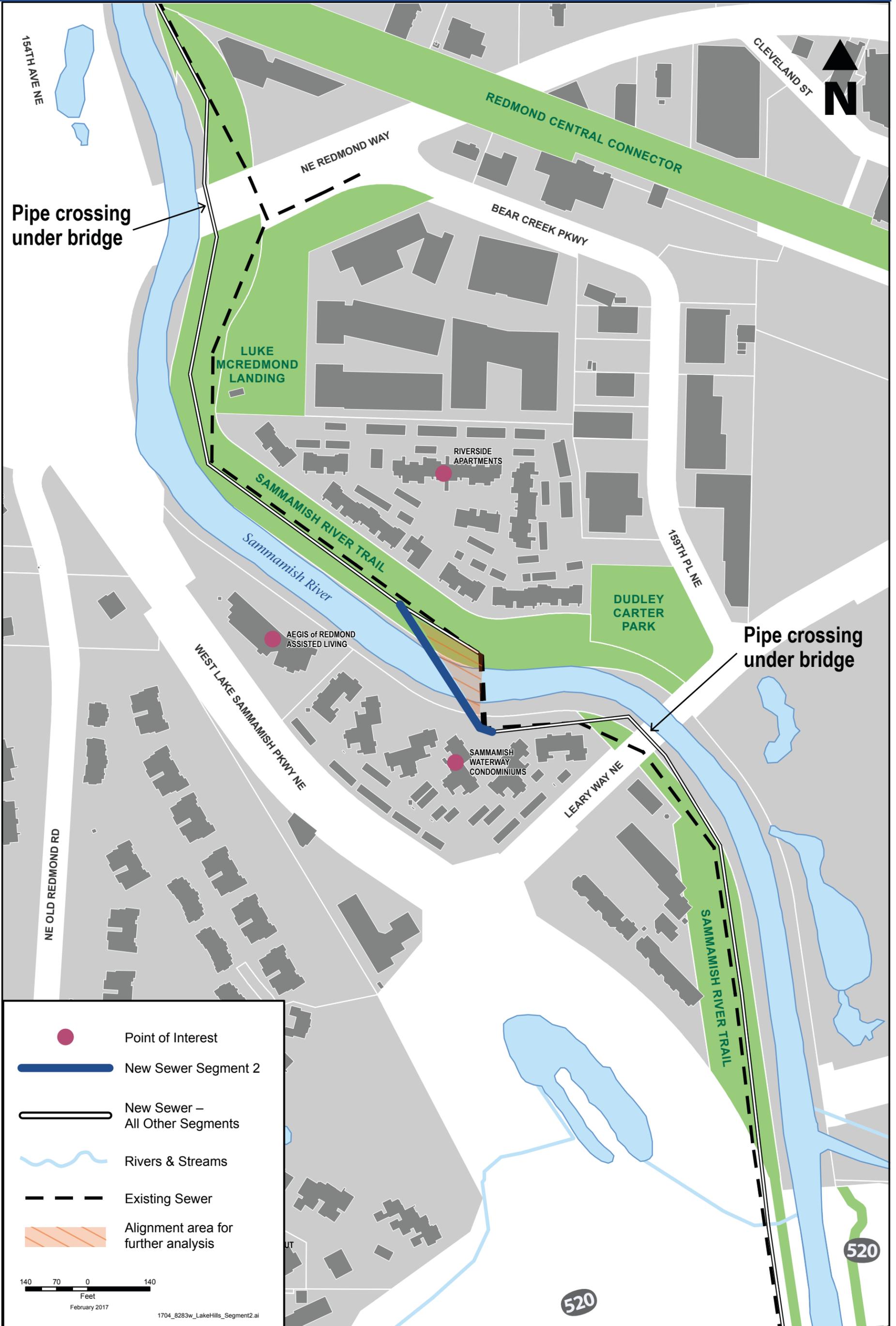
SEGMENT 1 New sewer on trail. Decommission existing sewer.



	Point of Interest
	New Sewer Segment 1
	New Sewer – All Other Segments
	Rivers & Streams
	Existing Sewer
	Alignment area for further analysis

180 90 0 180
Feet
February 2017
1704_8283w_LakeHills_Segment1.ai

SEGMENT 2 New sewer siphon under Sammamish River.



SEGMENT 3 New single and parallel sewers.



SEGMENT 4 Remove and replace two existing sewer siphons. Reuse one.



Lake Sammamish

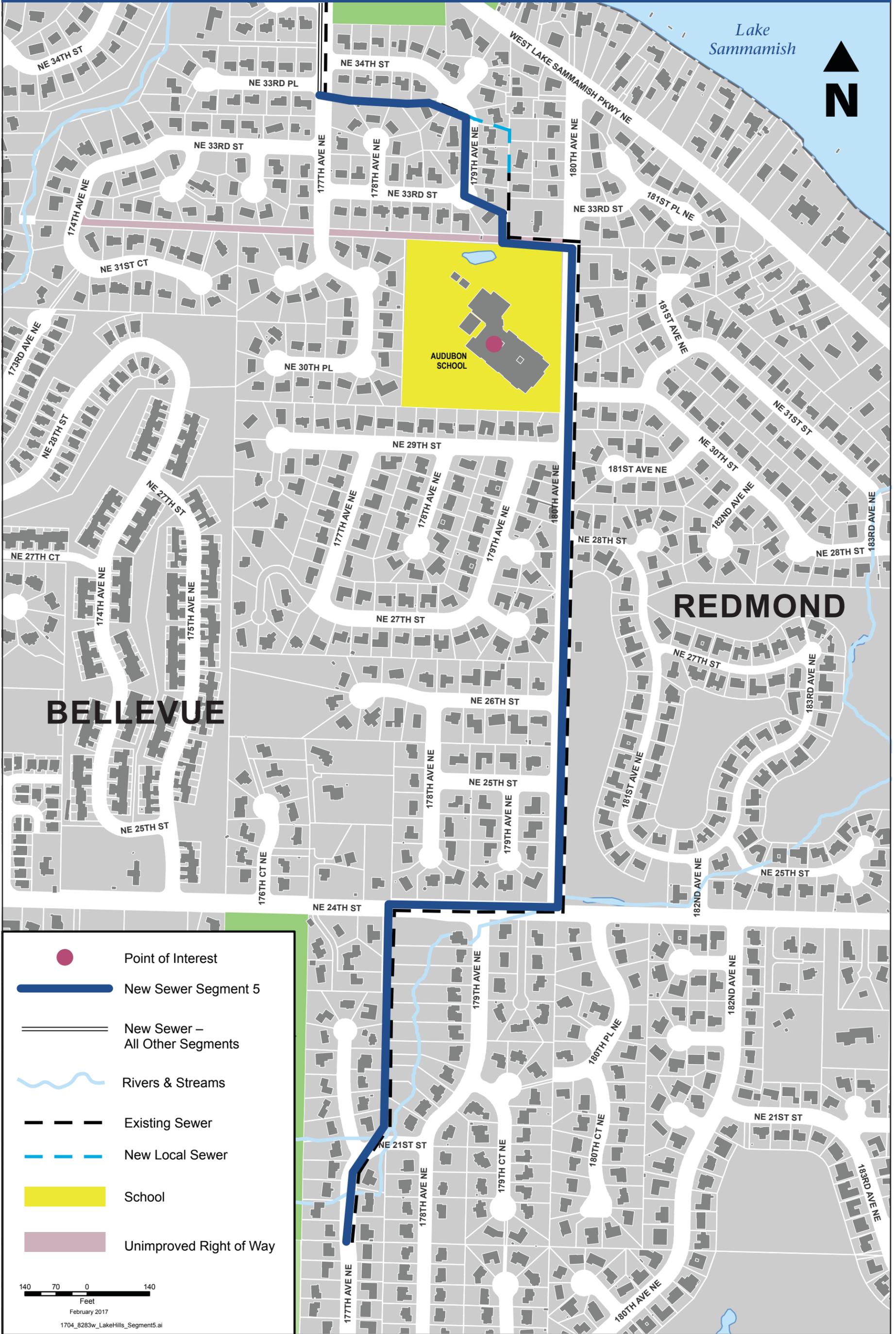
IDYLWOOD BEACH PARK

-  Point of Interest
-  New Sewer Segment 4
-  New Sewer – All Other Segments
-  Rivers & Streams
-  Existing Sewer
-  Wetland

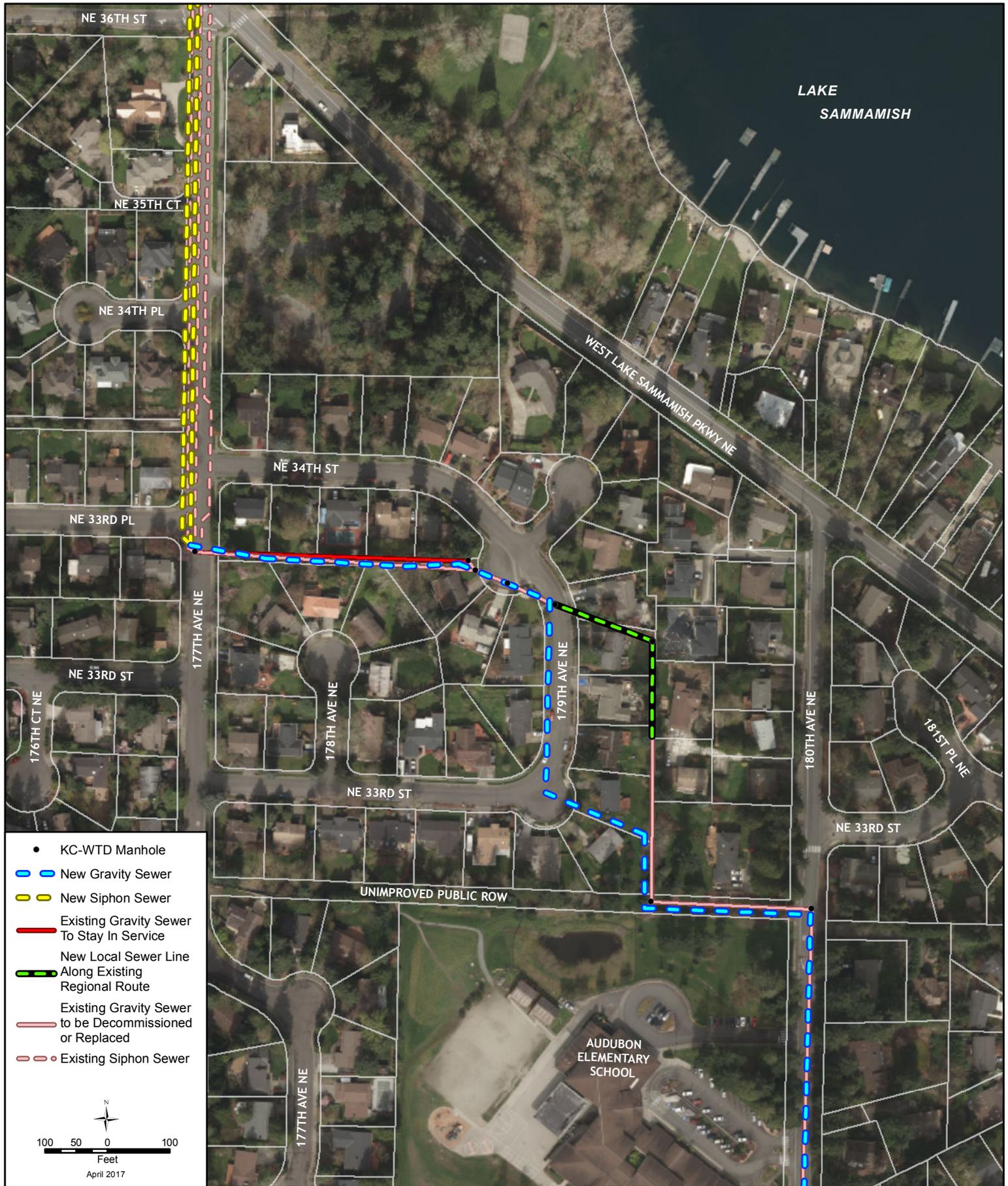
200 100 0 200
Feet

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SEGMENT 5 New single and parallel sewers. Decommission existing sewer.



- Point of Interest
- New Sewer Segment 5
- New Sewer – All Other Segments
- Existing Sewer
- New Local Sewer
- School
- Unimproved Right of Way

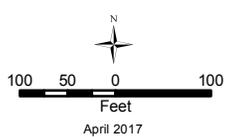


LAKE
SAMMAMISH

WEST LAKE SAMMAMISH PKWY NE

AUDUBON
ELEMENTARY
SCHOOL

- KC-WTD Manhole
- New Gravity Sewer
- New Siphon Sewer
- Existing Gravity Sewer To Stay In Service
- New Local Sewer Line Along Existing Regional Route
- Existing Gravity Sewer to be Decommissioned or Replaced
- Existing Siphon Sewer



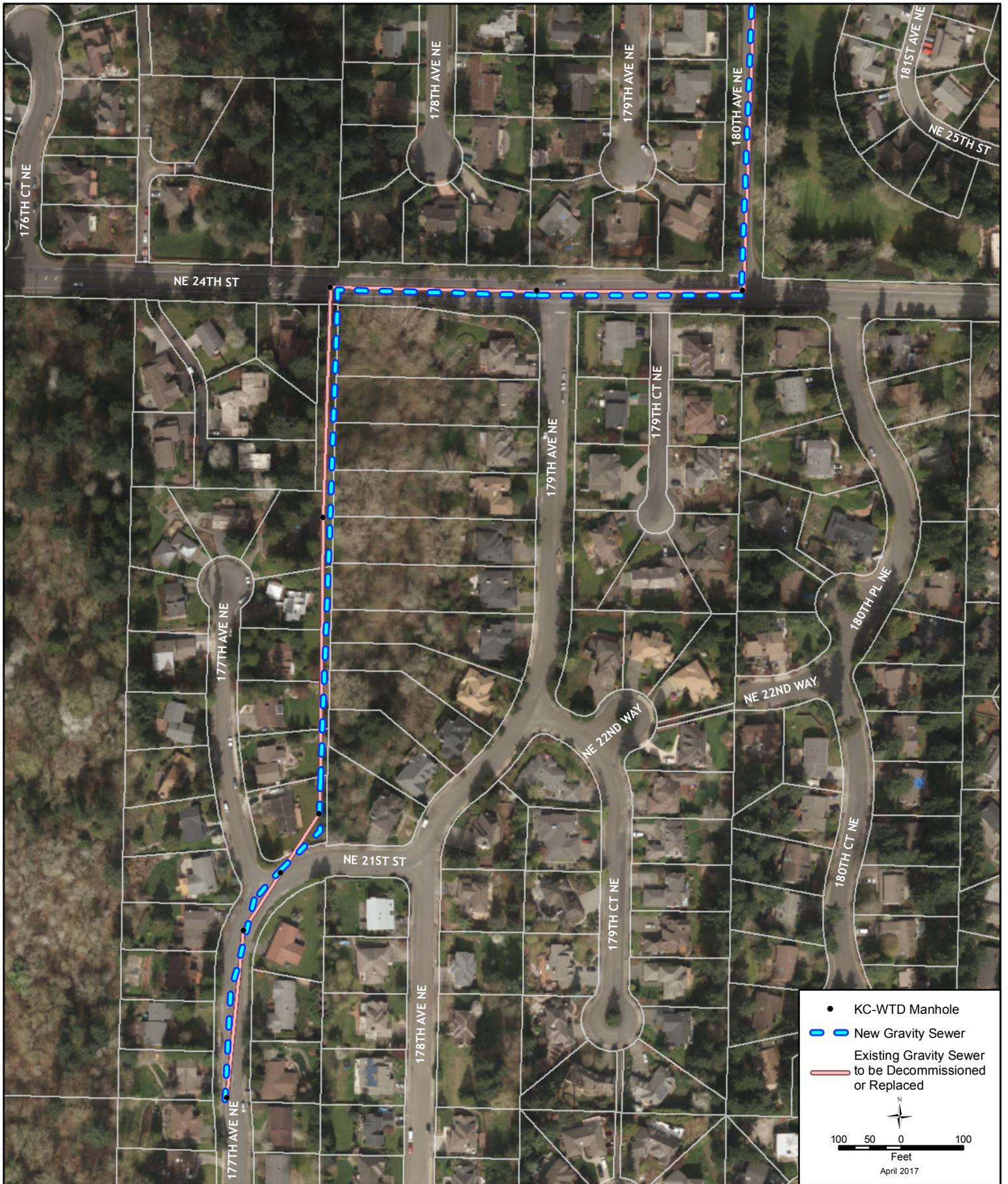
King County
Department of
Natural Resources and Parks
**Wastewater Treatment
Division**

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North Idylwood Sewer Route

*Lake Hills/NW Lake Sammamish
Sewer Upgrade Project*





Lake Hills and NW Lake Sammamish Sewer Upgrade Project

How we build

We are evaluating a number of construction methods to build the sewer upgrade at this early phase of design. The majority of the pipe will be installed using open-trench construction. Where feasible, we are considering construction methods that do not require us to dig a trench to minimize surface disruptions. Below is some additional information about open-trench construction and some of the trenchless methods we are considering.

Open-trench	Trenchless methods	
 <ul style="list-style-type: none"> • Most common method for installing pipes • Preferred for shallower work zones • Provides flexibility during construction to work around existing utilities • Requires digging trenches using backhoes and dump trucks • Traffic impacts include lane and trail closures and detours 	<p>Pipe ramming</p> 	<p>Microtunneling</p> 
	<p>Pipe boring</p>  <ul style="list-style-type: none"> • Does not require digging trenches along roadways • Requires two shafts on either end of the pipe • Can be used to limit disruptions on the surface • Only feasible in certain types of soils and conditions • Uses hammers, augers, or microtunneling machines 	<p>Pipe bursting</p> 

Construction sequencing

- Construction is expected to begin in 2020 and take three years to complete, but the entire sewer line will not be under construction at one time.
- Crews may work in segments or simultaneously at different locations along the alignment, minimizing disruptions to the community wherever possible.
- We are still working to determine exact sequencing for when each segment will be built.

We will share more information about construction methods and sequencing as design progresses.