



King County

Department of Natural Resources and Parks
Wastewater Treatment Division

COAL CREEK SEWER UPGRADE

COAL CREEK SEWER UPGRADE

Work in the Coal Creek
Natural Area
June 23, 2020

How to use Zoom

- Captioning
- ASL interpreter
- Asking questions
- Tech help: 206.922.6271 or Q&A chat function

Closed captioning

- Select the **Closed Caption** icon at the bottom of your screen



Chat



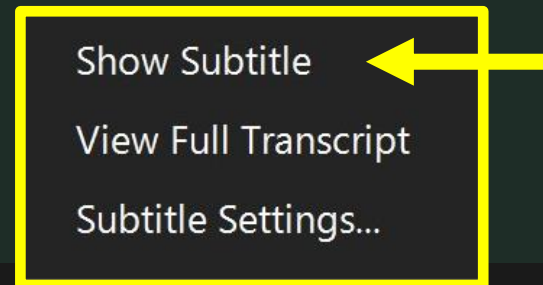
Q&A



Closed Caption

Closed captioning

- Select the **Closed Caption** icon at the bottom of your screen
- Select **Show Subtitle** to activate captions



Chat



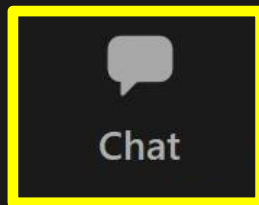
Q&A



Closed Caption

Closed captioning

- **For translated live caption, use the link in the chat box**
- A separate tab will open, and you can select your language of choice



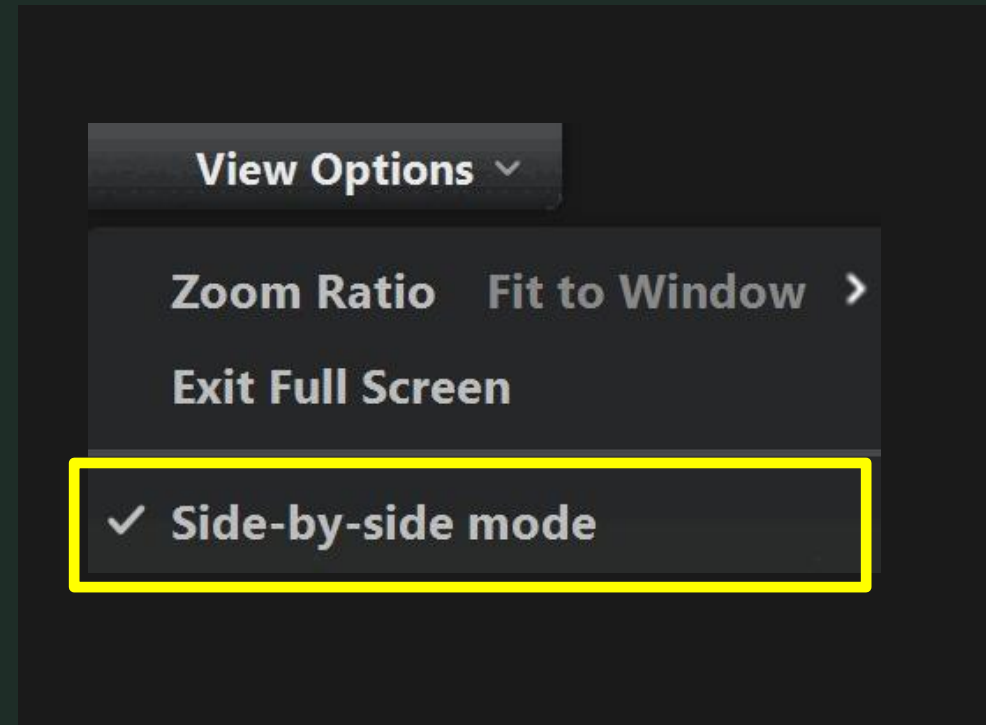
Q&A

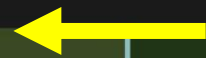


Closed Caption

ASL interpretation

- Select “View Options”
at the top of your
screen





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Project Overview and
Construction
June 17, 2020

- Zoom Ratio Fit to Window >
- Exit Full Screen
- ✓ Side-by-side mode



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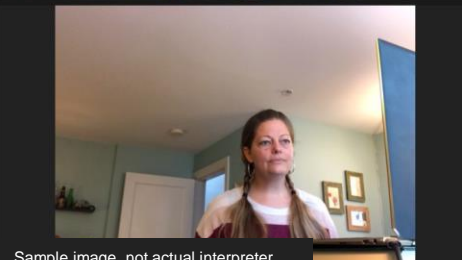
Project Overview and
Construction
June 17, 2020

ASL
interpreters
will be here





Sample image, not actual interpreter



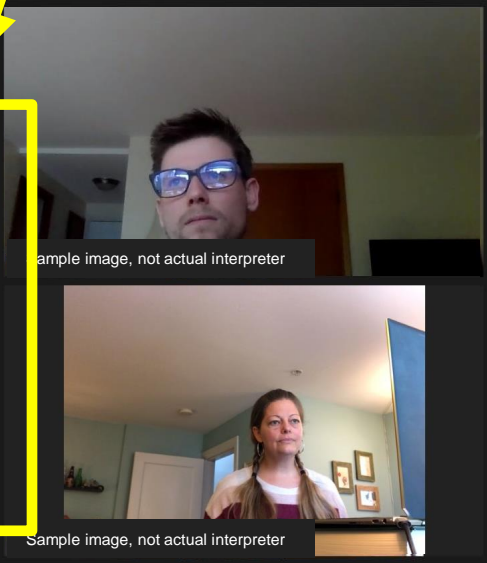
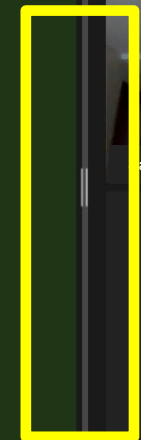
Sample image, not actual interpreter



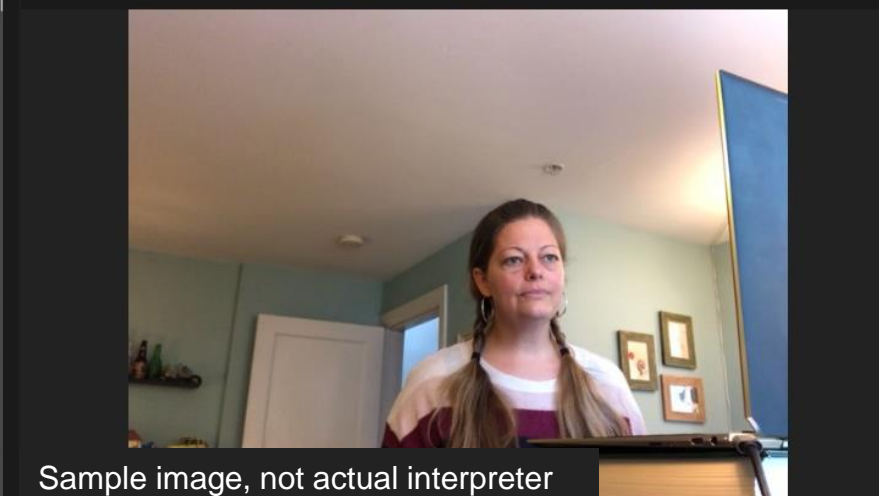
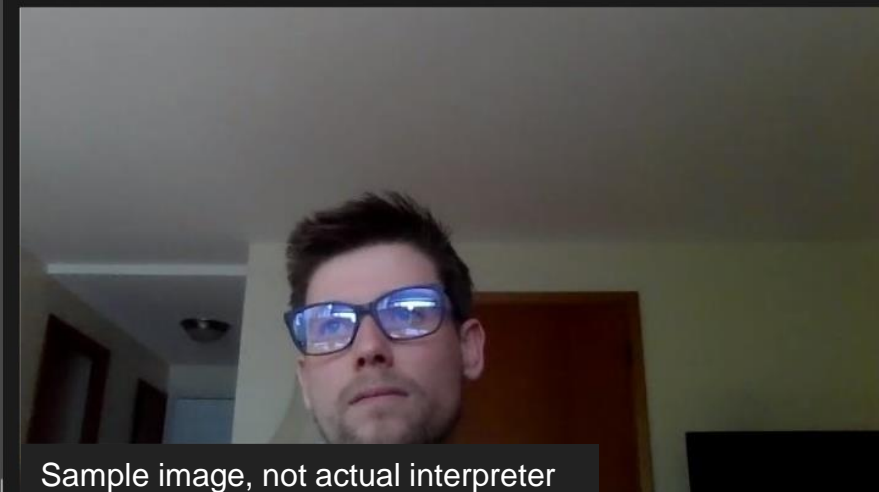
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Make ASL windows bigger



ASL interpreters
will be here



Question & answer

- Attendees will remain in listen mode
- Enter questions in the Q&A chat
- Questions answered:
 - Live as time allows
 - Meeting summary online



Chat



Q&A



Closed Caption



Today's Presenters



Elizabeth (Korb) Matson
Project Manager, King County



Jacob Sheppard
Environmental Planner, King County



Monica Van der Vieren
Community Services, King County



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COAL CREEK SEWER UPGRADE

Agency and project overview

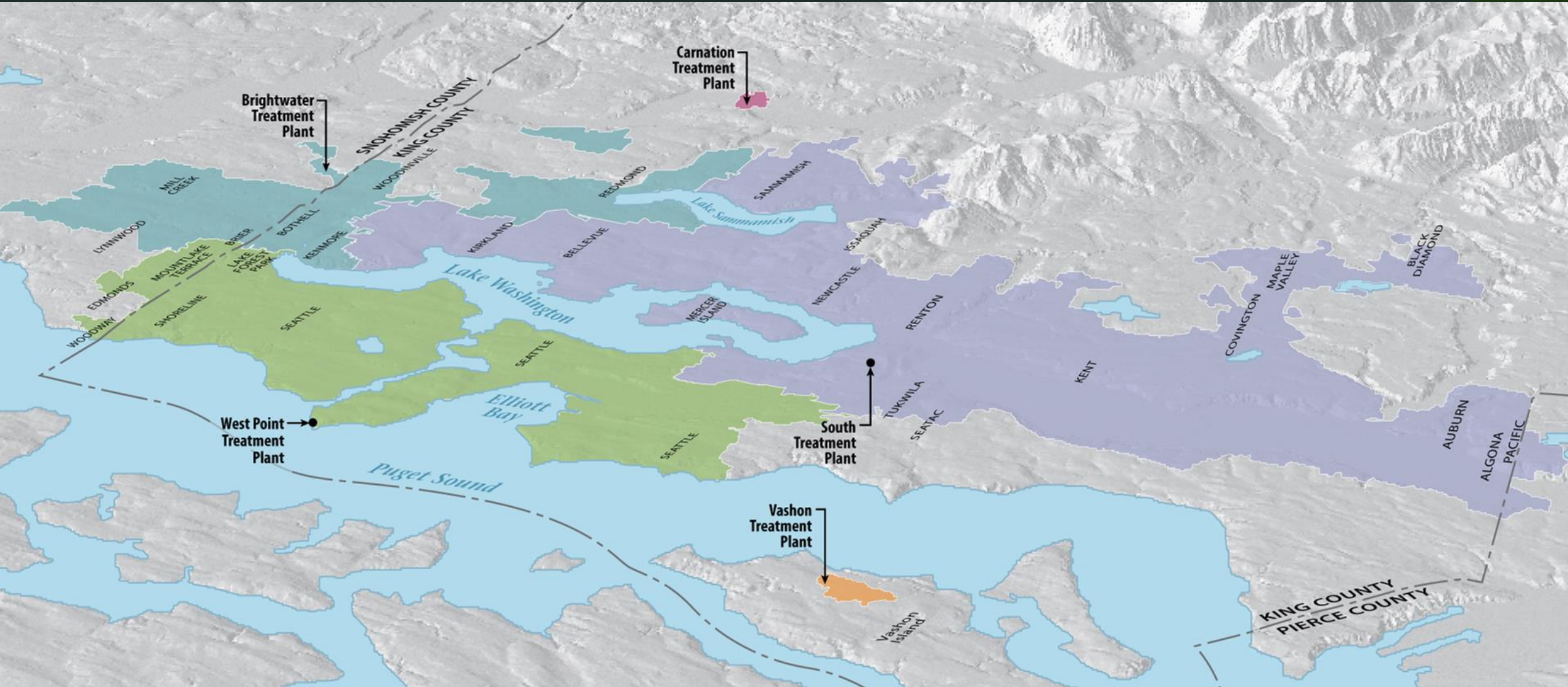
Elizabeth Matson, Project Manager, King County

Helping the community engage and participate

Webinar series

- Construction, trailhead restoration, bank stabilization
June 17, 2020 6-7:30 pm
- Work in the Coal Creek Natural Area
June 23, 2020 6-7:30 pm

King County WTD serves our region





X 3,600,000 =
the amount of wastewater
King County treats every day!

**King County's wastewater system cleans about
3.6 million bathtubs of dirty water every day.**

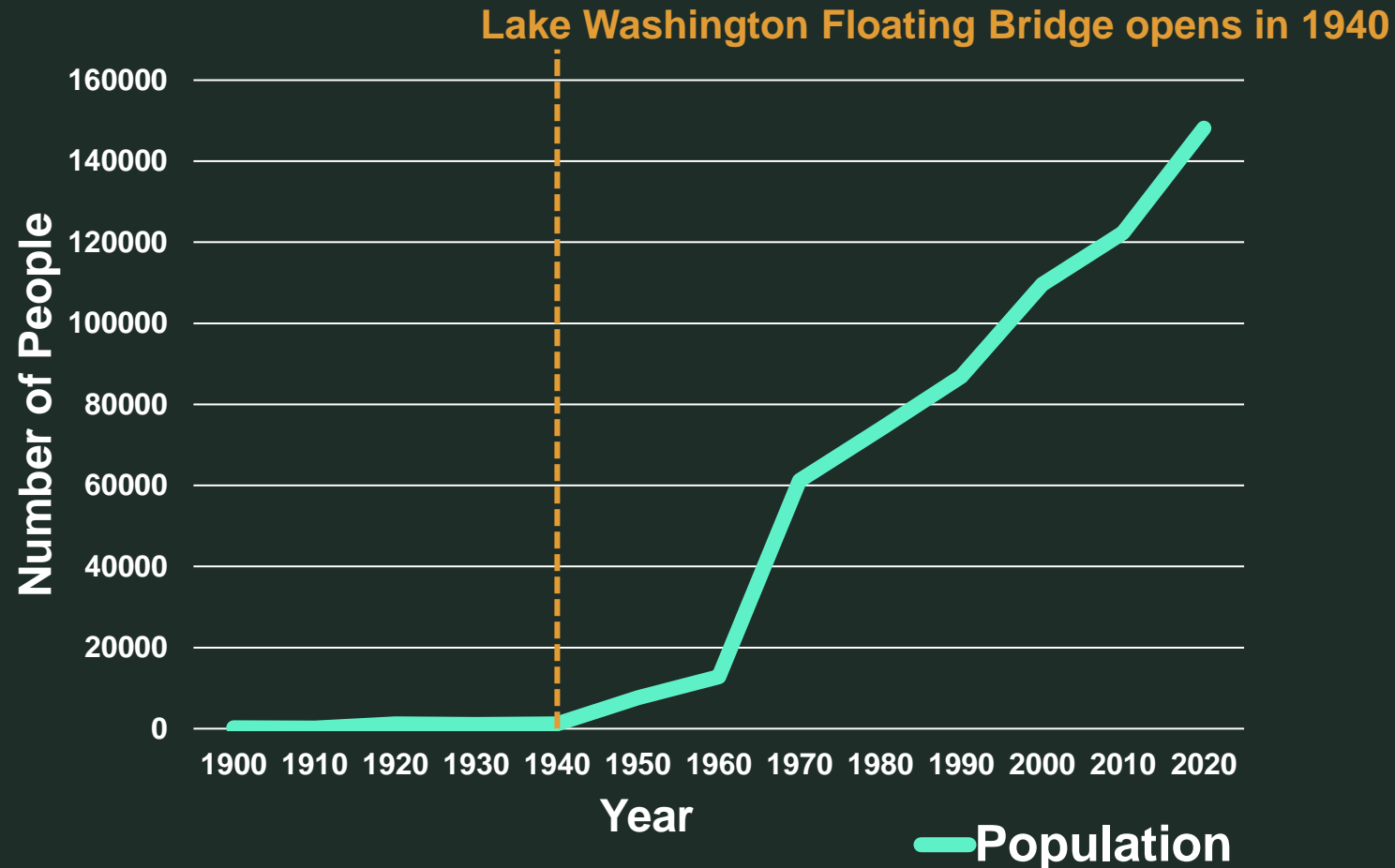
Where your wastewater goes

- The water from your drains travels through your side sewer
- The City of Bellevue collects your wastewater
- King County collects Bellevue's wastewater for treatment at South Plant in Renton



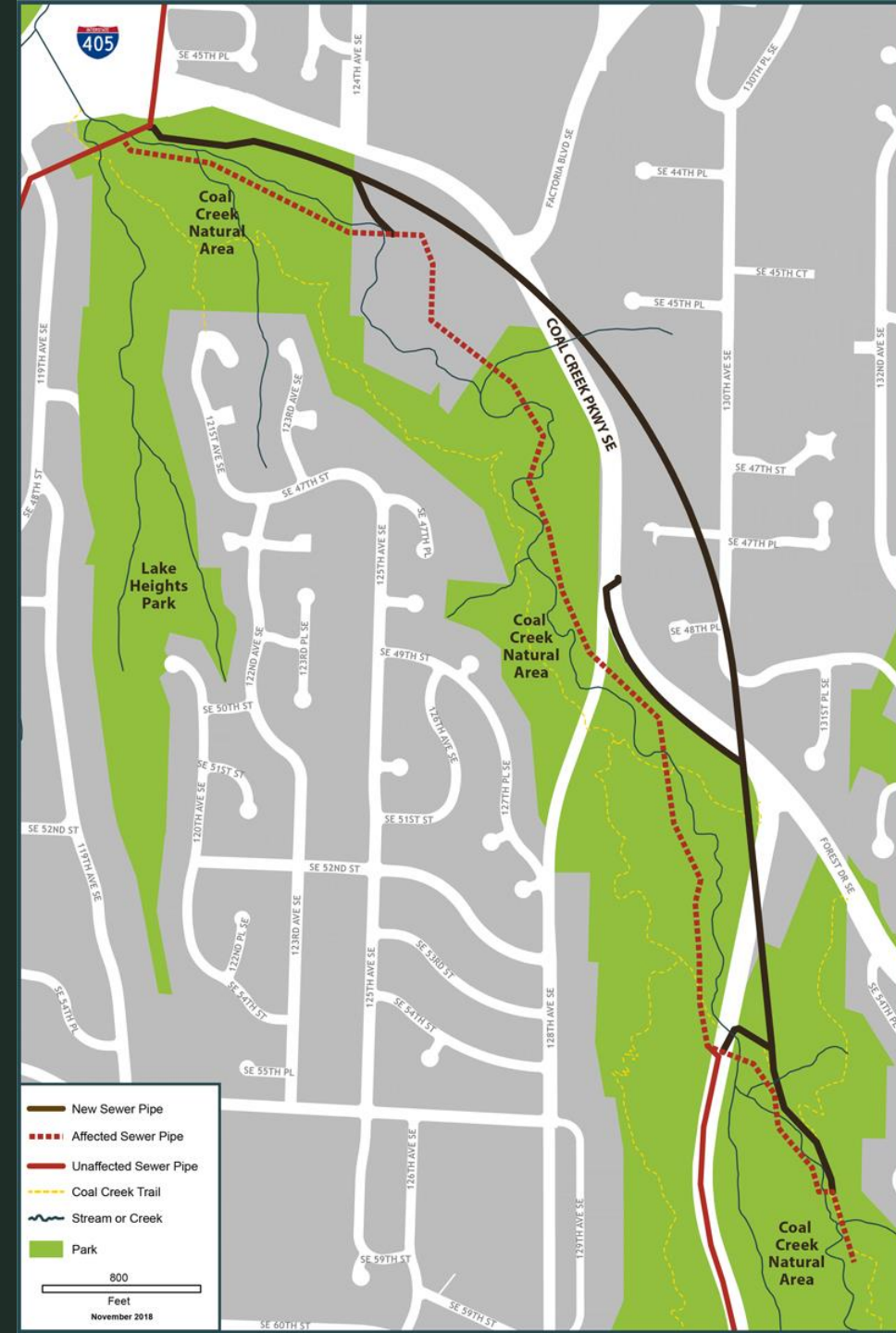
King County needs to provide capacity for a growing area

Population growth in the City of Bellevue



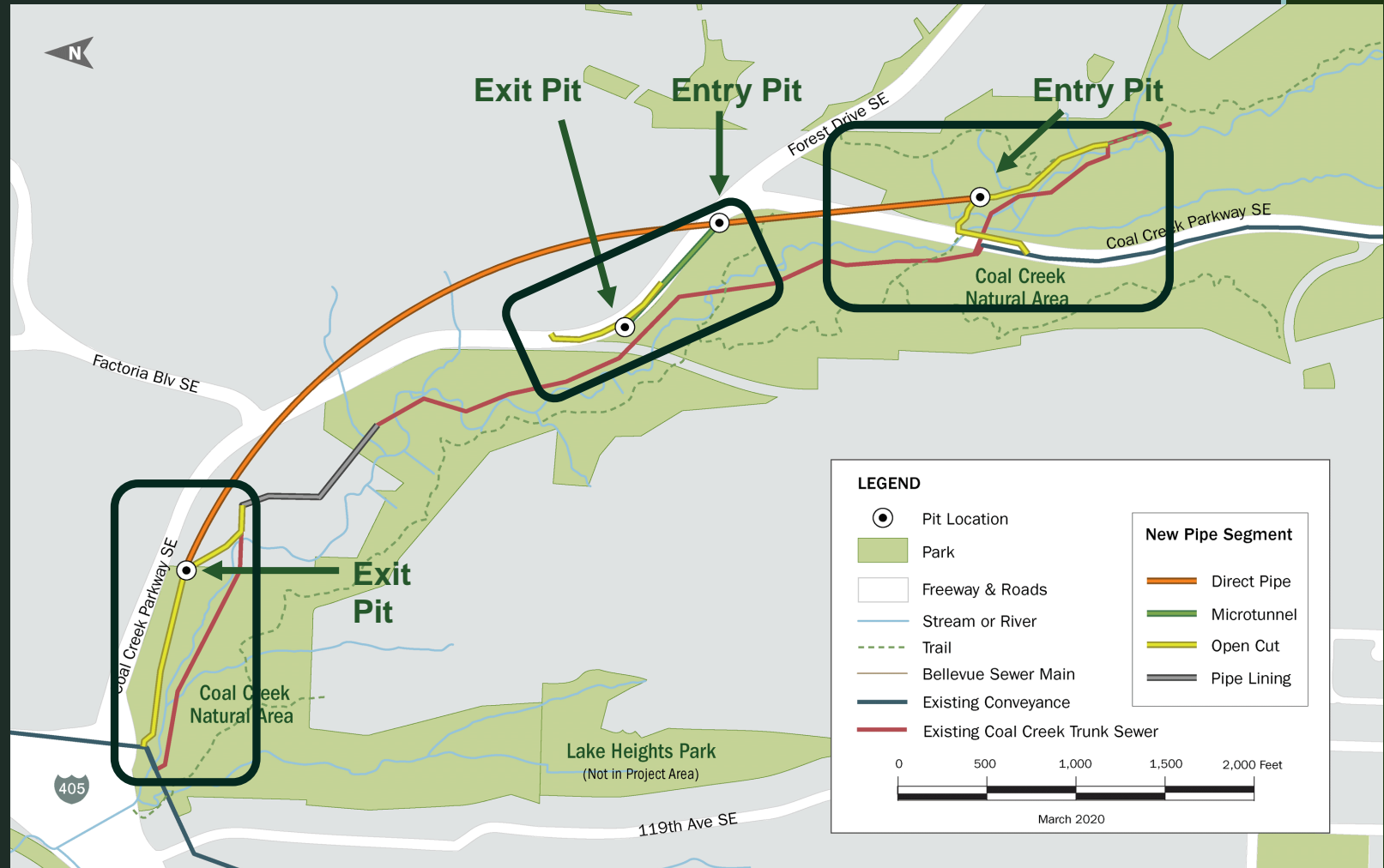
What we are building

- 8,000 feet of new pipe to replace the north Coal Creek Trunk Sewer.
- 2,800 feet of pipe to connect the local system to the new pipe.

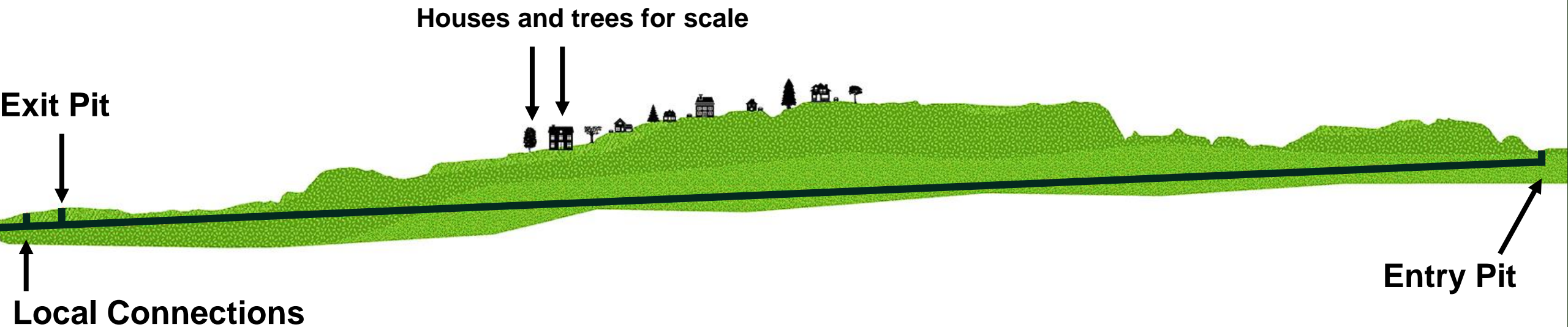


All work areas touch the environment

Multiple work areas to install the new pipe and reconnect to Bellevue's sewer system.

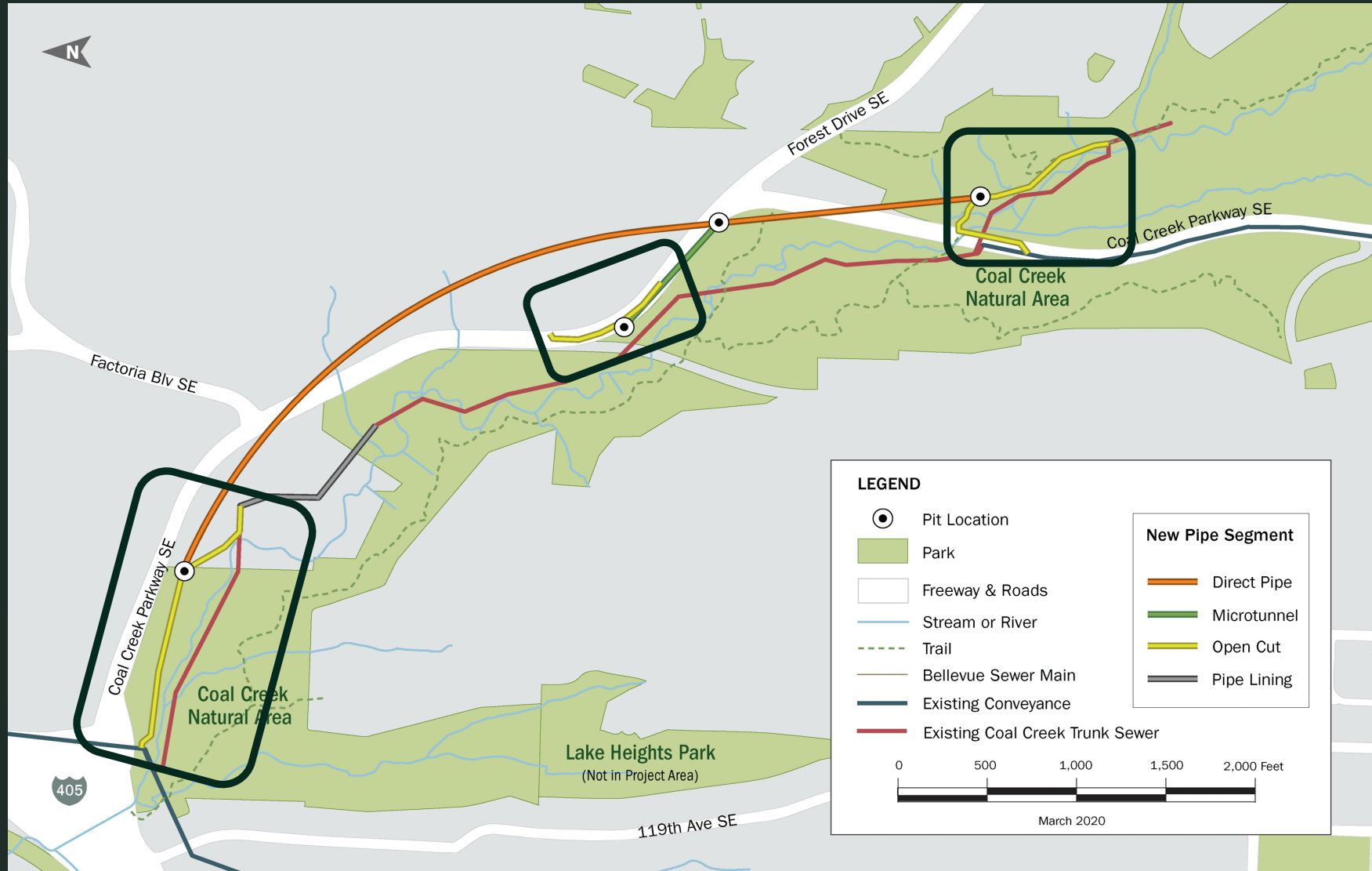


Underground (trenchless) construction

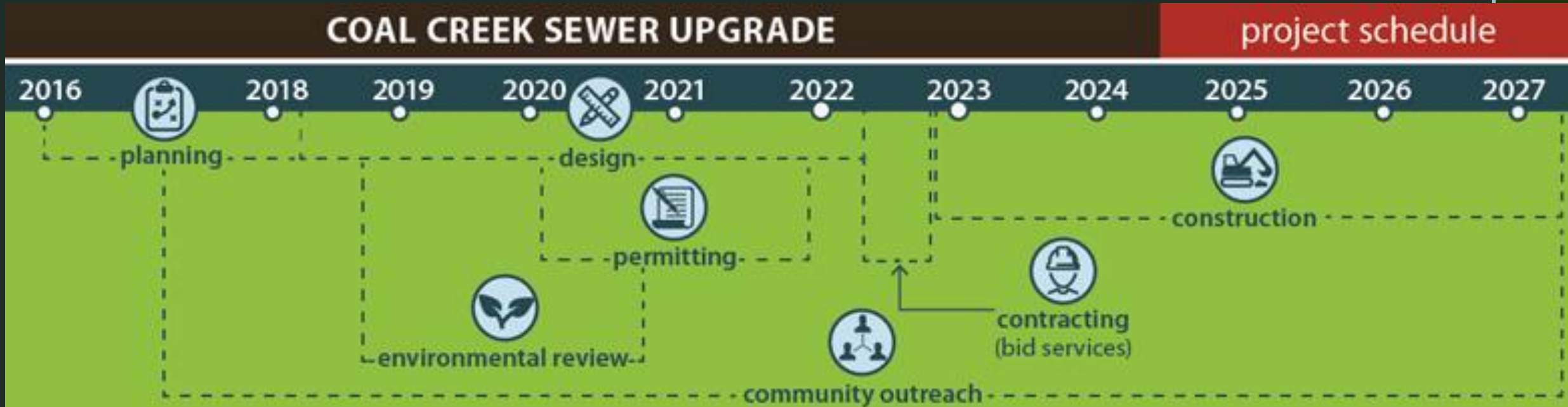


Trenchless construction installs pipe underground with entry and exit points for a remote tunneling machine

Open trench construction



Project Schedule**



**** Project schedule may change.**



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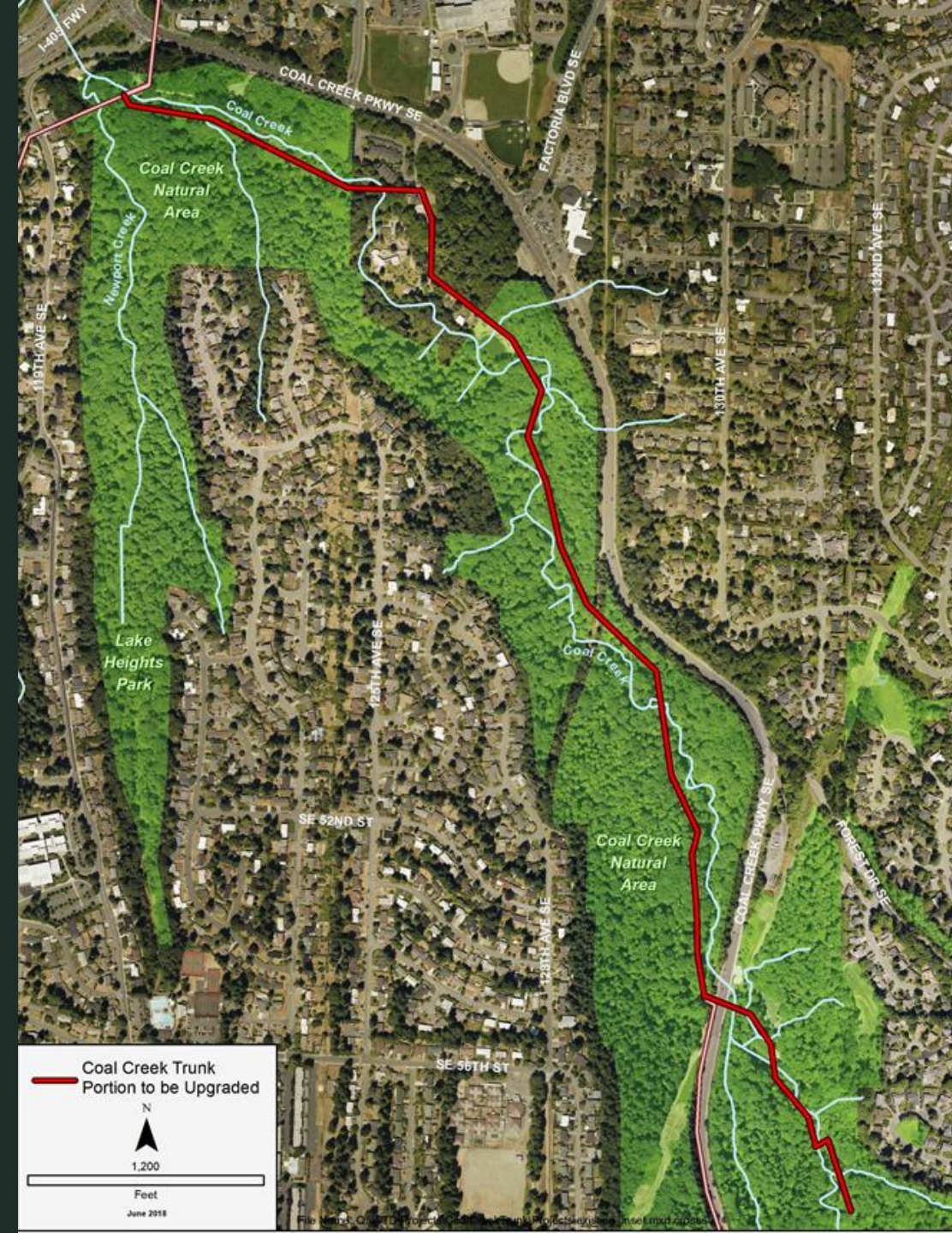
Working in the Coal Creek Natural Area

Designing around a legacy of the past

Jacob Sheppard, King County Environmental Lead

Today's system

- Coal Creek Trunk Sewer—built in the 1960s-1970s to serve Newcastle and part of Bellevue
- This project replaces the north segment of pipe
- This section follows Coal Creek, in the Coal Creek Natural Area



Original location creates some issues

Creek flooding erodes banks.
This can expose the pipe.



2007 (above)
2015 (left)

Current example: maintenance hole protection project



Flooding in December 2019 eroded the bank around a maintenance hole near the Upper West Trailhead.

Temporary bank repair this summer

Up to 2 weeks of parking lot and trail closure in the work area, with potential to open on weekends.

Environmental review underway, public comment period June 11 – 29.

Visit the web for more information!



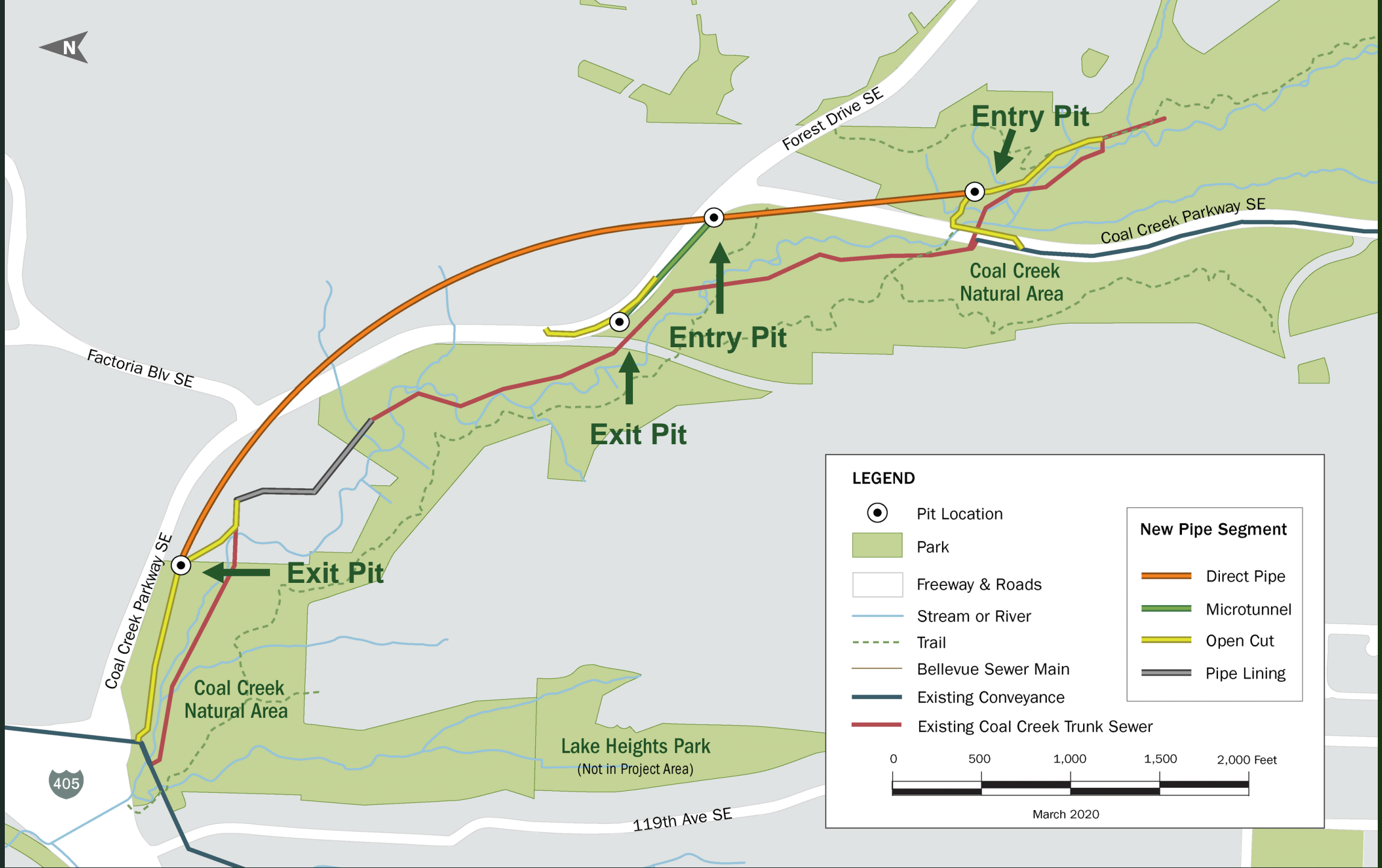


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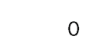




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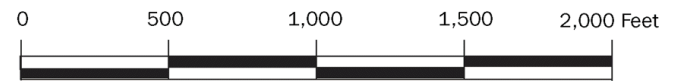
COAL CREEK SEWER UPGRADE

The Coal Creek Sewer Upgrade Project



LEGEND

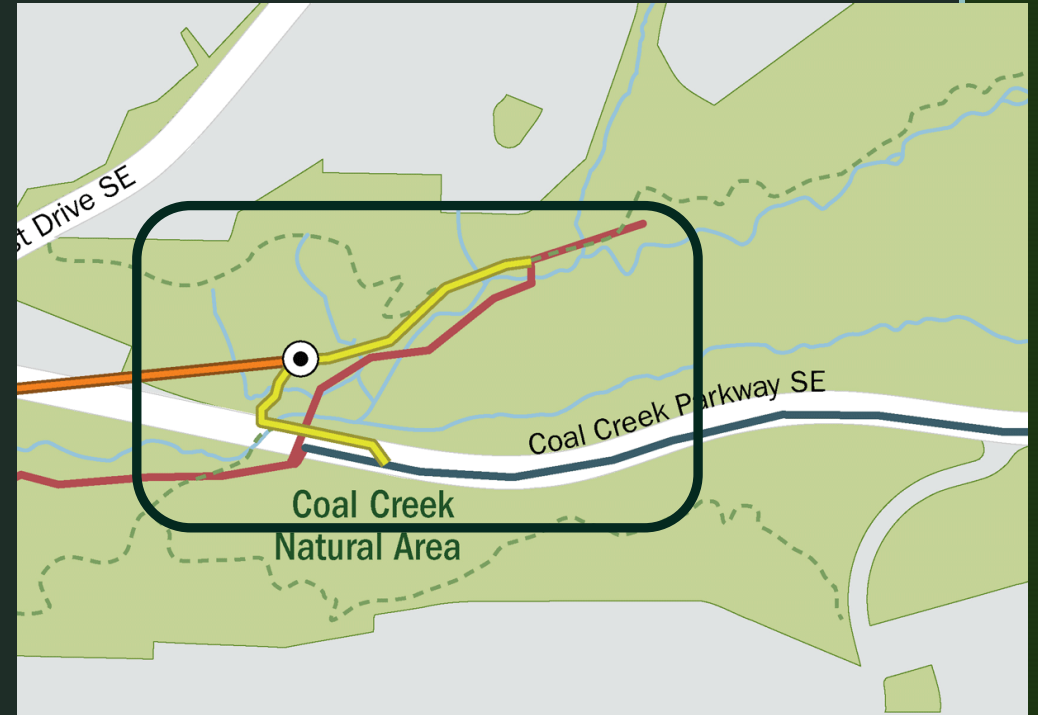
-  Pit Location
 -  Park
 -  Freeway & Roads
 -  Stream or River
 -  Trail
 -  Bellevue Sewer Main
 -  Existing Conveyance
 -  Existing Coal Creek Trunk Sewer
- New Pipe Segment**
 -  Direct Pipe
 -  Microtunnel
 -  Open Cut
 -  Pipe Lining



March 2020

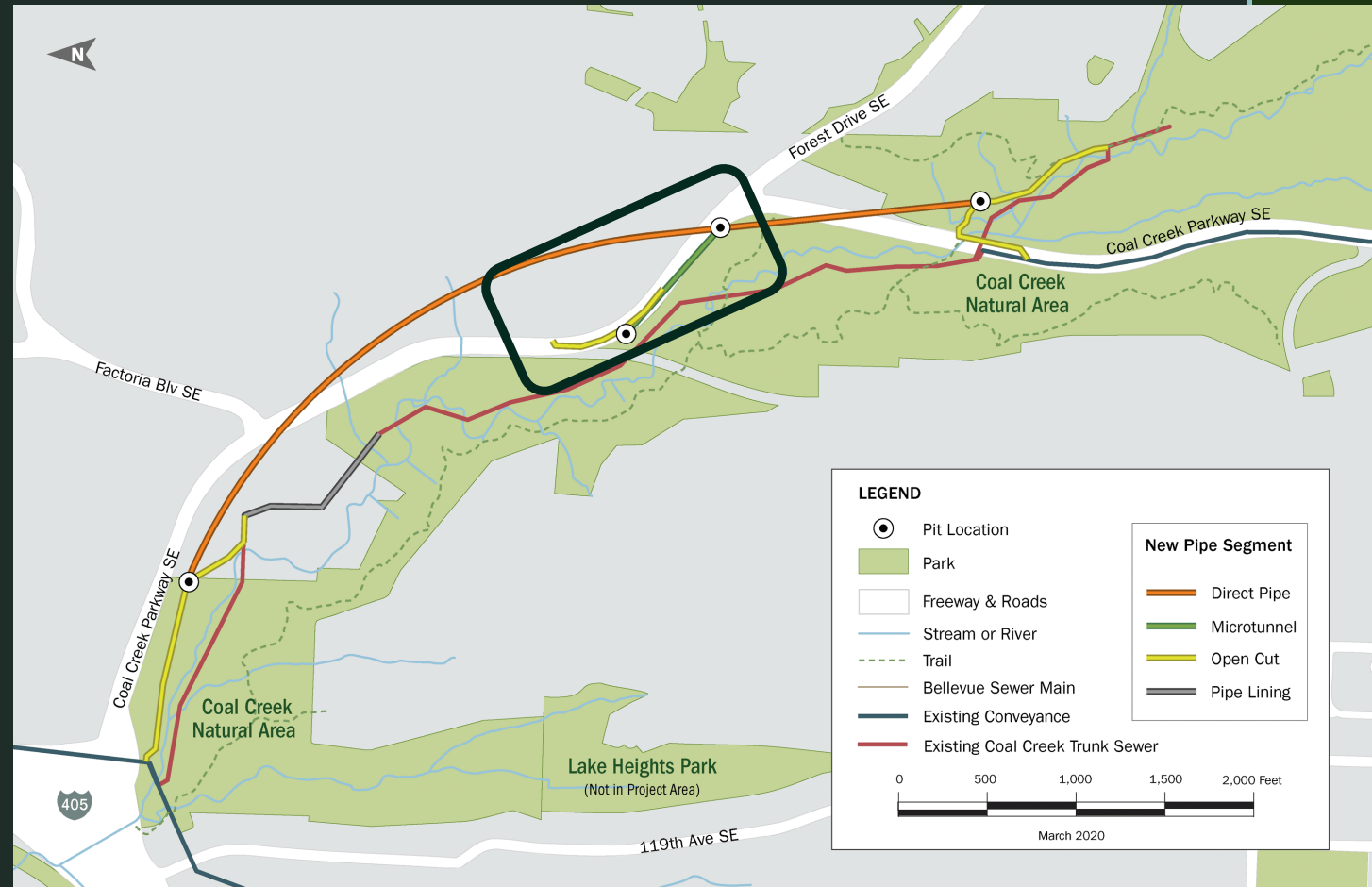
Construction - Upper West Trailhead

- Entry pit for trenchless construction
- Open trench on Coal Creek trail
- Open trench across Parkway
- Retaining wall, forest and stream restoration



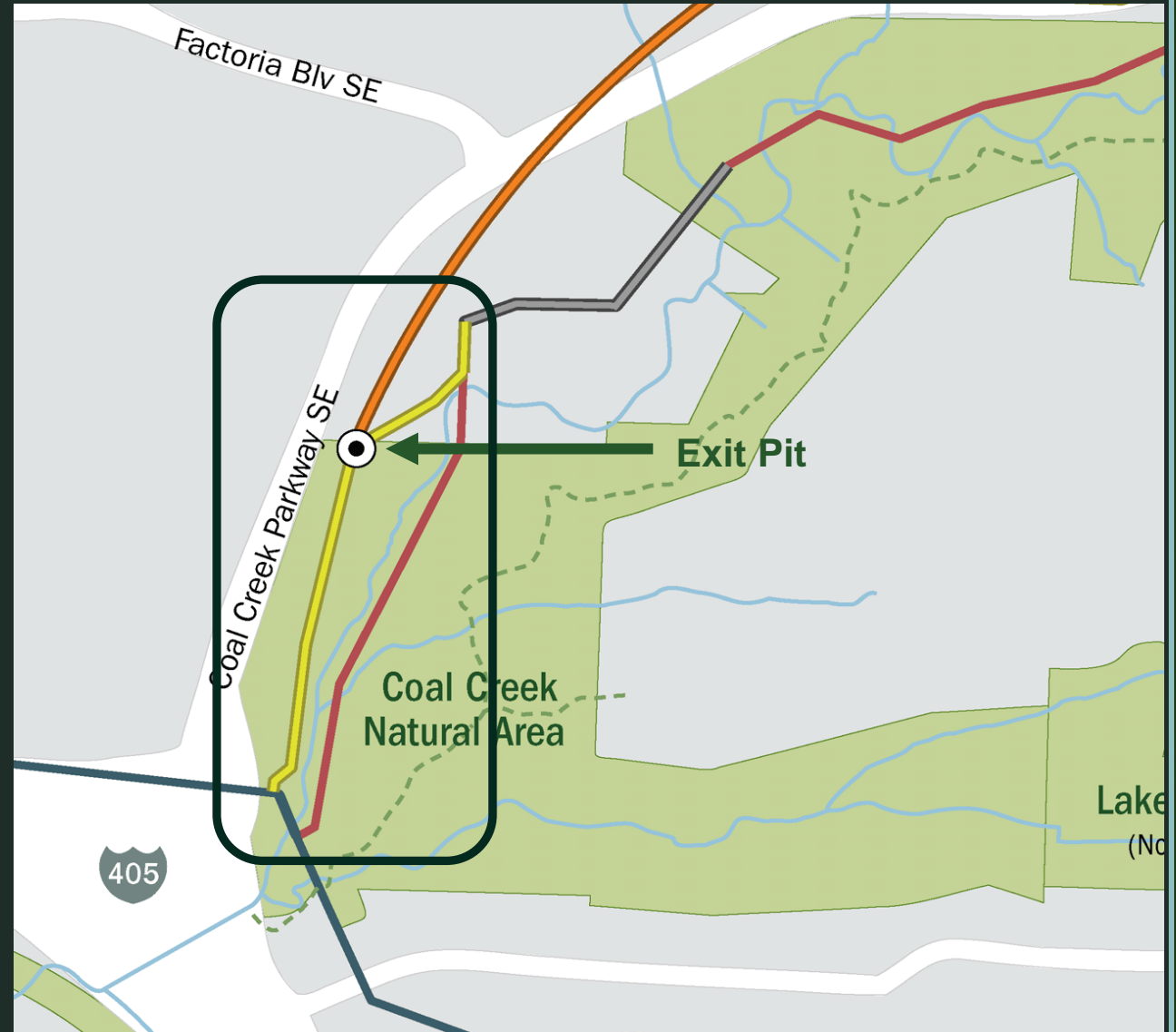
Central: City of Bellevue connections

- Pipe installed underground by Microtunneling and open trench
- Tree removal
- Traffic impacts
- Grading changes



North work area

- Temporary road
- Exit pit for trenchless
- Open trenching to build local connections
- Restoration



Environmental and agency review

- Environmental review under the State Environmental Policy Act (SEPA)
- Local, state and federal permits
- All permit requirements are included in contracts



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**Protecting the environment
during construction**

Overview

- Construction controls will be in place for:
 - Water quality
 - Tree protection
 - Stream protection
 - Noise and light



Water quality protection

- Defined work areas
- Sediment/erosion protection
- Spill prevention
- Materials and waste removed from site



Access for maintenance

- City of Bellevue will maintain sediment ponds during construction
- Maintain access for debris removal at north end



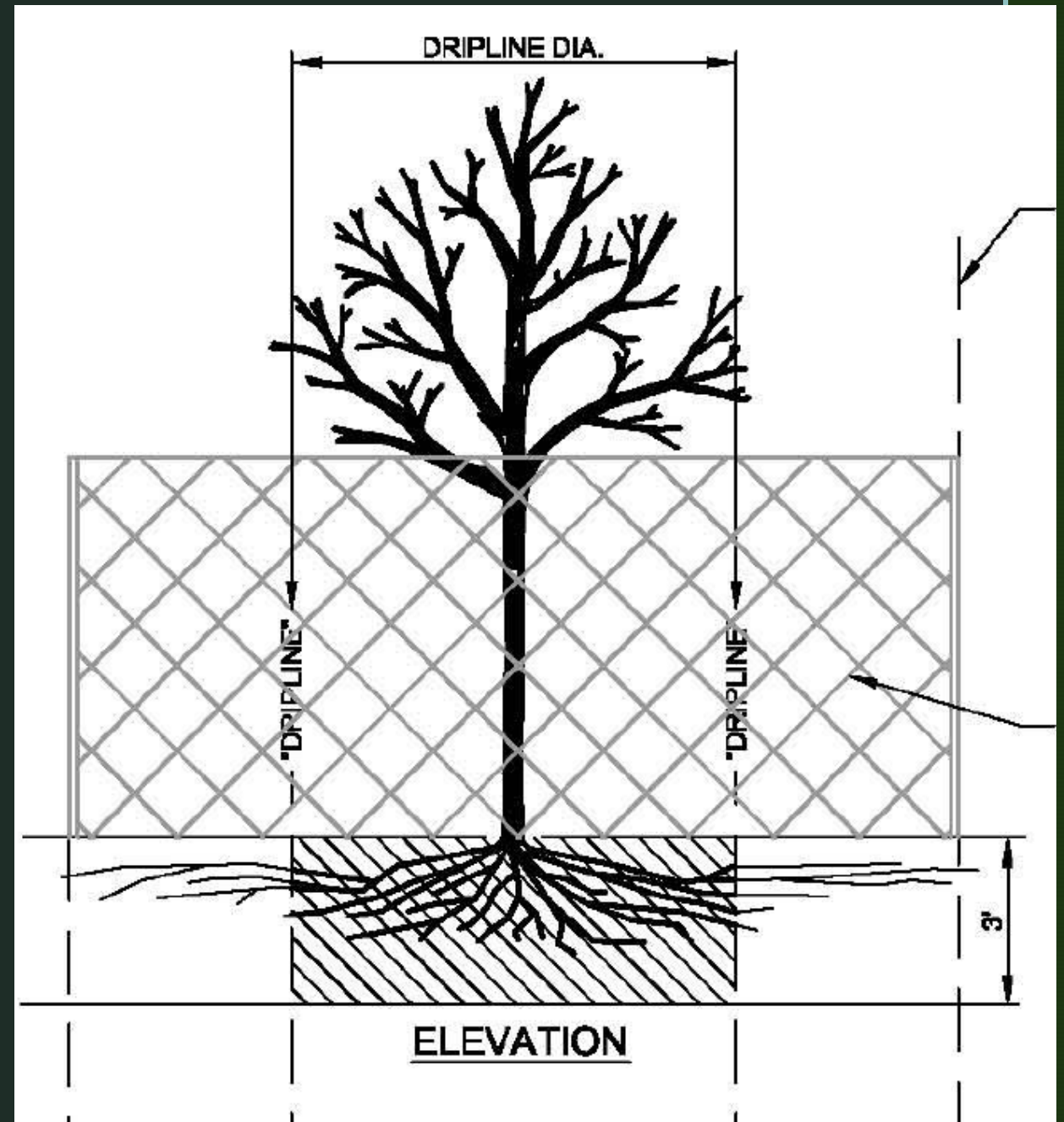
Forests

- Project will temporarily impact forest canopy
- Some trees will be removed, some protected
- King County will restore a healthy forest canopy in the work area



Tree protection

- Removing trees in the work area
- Adding tree protection for healthy trees near the work area
- Defined work areas



Stream protection

- Fish windows
- Fish exclusion
- Erosion control
- Controlling introduction of invasive species



Noise and light controls

- Defined work areas
- Potential curtain around entry pit at Upper West Trailhead
- Lighting set up to avoid glare



Wetland protection

- Defined work areas
- Sediment/erosion protection
- Tree protection
- Reducing soil impacts



Construction Management

- King County inspectors on-site
- Weekly progress meetings
- Review of submittals and work plans to make sure the contractor follows permit conditions

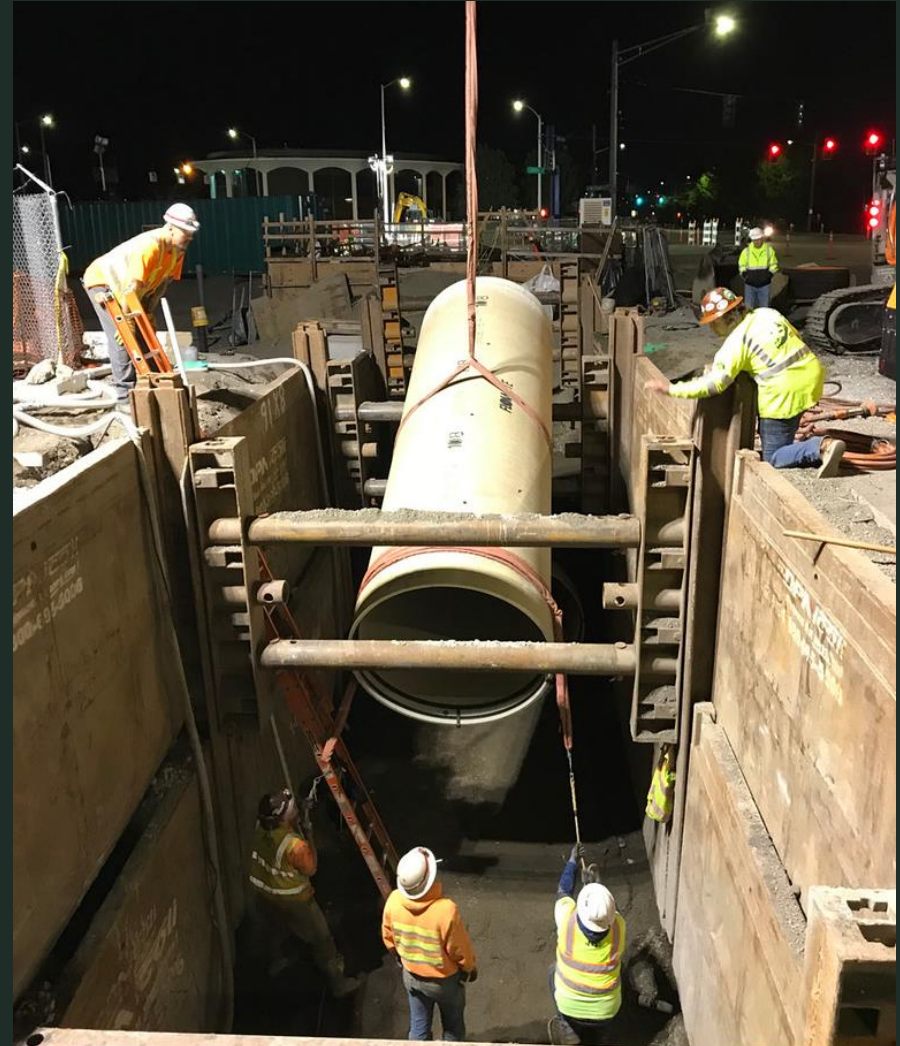


photo taken prior to social distancing



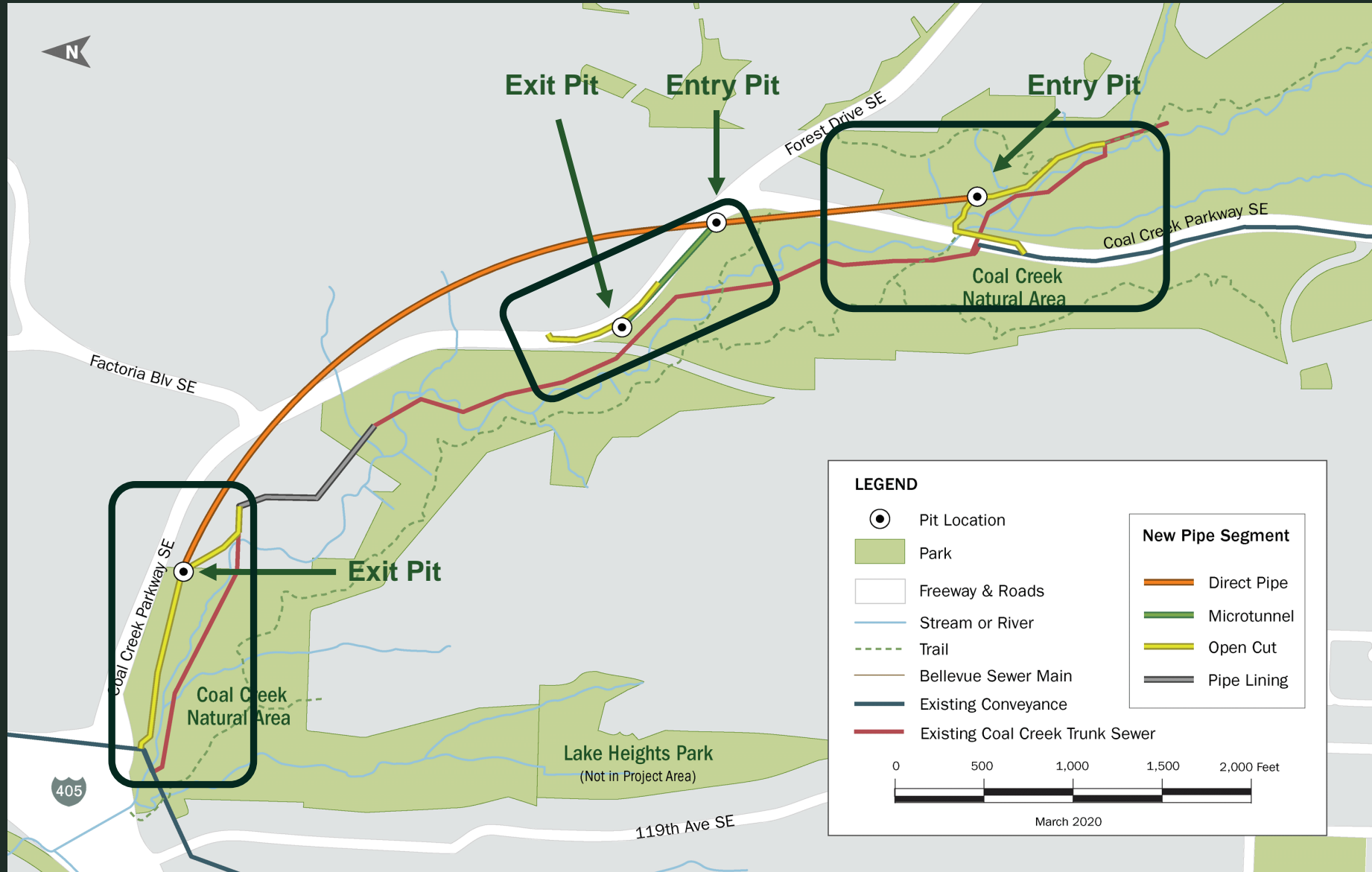
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Restoration of environmental areas

Balancing uses in restored areas



Protecting the trail and pipe

- Retaining wall
- Trail access for maintenance



Team members visiting area of retaining wall (photo taken prior to social distancing)

Natural Stream Processes

- Creation of habitat refuges
- Mobile stream
- Overhanging trees and shrubs
- Side channels



Tree replacement

- Increase native tree canopy whenever possible
- Native trees support local wildlife
- Long-lived evergreen trees help take up water during the rainy season



Understory

- Native vegetation for wildlife habitat, forest resilience and erosion control
- Control invasive species during maintenance period

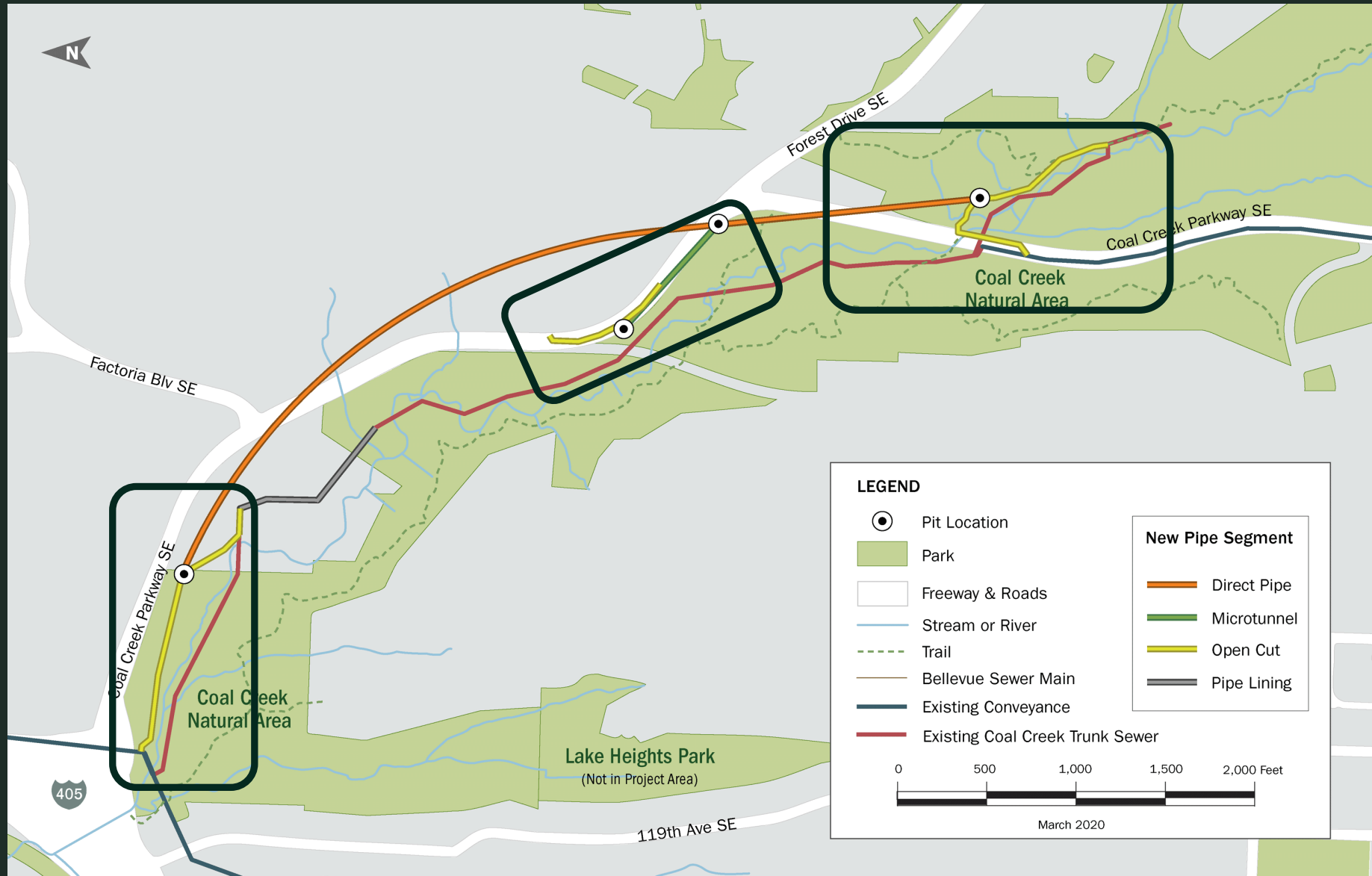


Wetlands

- Restore affected wetlands
- Enhance wetlands in the natural area
- Create new wetlands adjacent to existing wetlands



Wetlands restoration



Maintenance and Monitoring

King County will monitor and maintain the site to ensure it meets permit requirements





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Community elements and outreach

Monica Van der Vieren, King County Community Relations

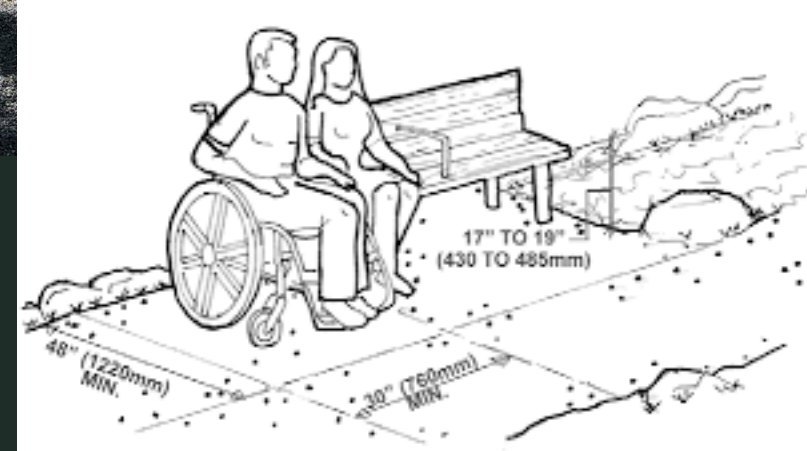
Restoring recreational access to the work area

- Build upon past improvements to meet current standards
- Leave behind elements after trailhead and trails reopen



Building on previous improvements

Restore with greater accessibility and education on site and online



Working with you in a challenging time

King County works hard to meet our communities where they are at, and engage them.

We're adapting for the current situation, looking for safe, meaningful ways to work with people.

You can help us serve you

- Fill out the post meeting survey
- Contact us with questions and thoughts
- Let us know how we can meet with you and your group
- Discuss the project with us through an interpreter



How you can stay connected

- Project Web page
- Newsletter and electronic updates
- Virtual meetings
- Online open house





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Questions?

Information and library:

www.kingcounty.gov/CoalCreekSewer