

## With the excavation complete and concrete pours underway, the project is halfway done!

King County contractors finished excavating the tank area at the intersection of S. Hanford St. and S. 27th Ave. S. in mid-January. The resulting hole is 50 feet deep – big enough to house the facility's 340,000 gallon underground storage tank. The tank will help reduce overflows of sewage and stormwater into Puget Sound during heavy rains.

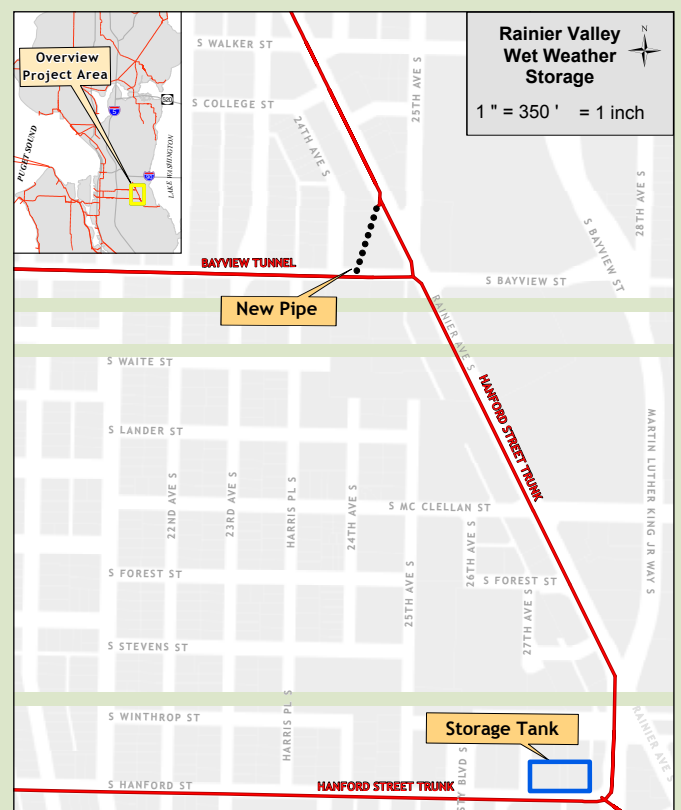
Before the tank can be built, crews must install a 5-foot thick concrete base to support the structure above and anchor the tank. Rebar will be installed first and then nearly 1,000 cubic yards of concrete will be poured into the hole to complete the foundation.



Workers at the bottom of the excavated hole that will hold the storage tank.



King County's contractor pours the concrete base slab of the new Rainier Valley storage tank.



Building a new pipe under Rainier Ave S. using a microtunnel boring machine.

## Creating a connection between the Hanford Street Trunk and the Bayview Tunnel

## Microtunneling reduces impacts to the public from the project

King County's contractor used a construction method called microtunneling to dig a tunnel for the new sewer pipe that will connect the Hanford Street Trunk and the Bayview Tunnel. By microtunneling, we were able to reduce impacts to the public, complete the pipe installation in weeks rather than months, and let the contractor complete the tunnel without open trenching. Open trenching would have required Rainier Ave S. to be closed for long periods of time during the work.

The new sewer pipe is 140 feet long and 60 inches wide. It will allow sewage and stormwater to move from a pipe that gets full during storms to another pipe that has more room. During microtunneling, a pipe is pushed through the ground by hydraulic jacks. A machine in front of the pipe guides the pipe and removes soil as the pipe is pushed forward. The soil is mixed with a fluid and this mixture is pumped up to the surface where the soil and fluid are separated and reused or recycled. The microtunneling machine was launched from a pit in the lot next to Bartell Drugs and removed from another pit in Rainier Ave S.

### *What neighbors can expect during the construction work*

- Regular work hours for the project are from 7:00 a.m. until 6:00 p.m. on weekdays, and from 9:00 a.m. to 6 p.m. on Saturdays.
- For work that may involve lane closures in Rainier Avenue S., work hours span from Saturday at 4:00 p.m. through 2:00 a.m. Monday morning.
- Equipment noise and vibration near the work area.
- Flaggers, signs, orange barriers, and cones to help direct traffic around work in the right-of-way.





## What's next?

- ✓ **Completing storage tank foundation.** The contractor will form and pour the foundation for the storage facility.
- ✓ **Building the underground storage tank.** The tank will be built and outfitted with a pump system.
- ✓ **Constructing the mechanical and electrical building.** The contractor will continue to construct the above ground mechanical and electrical building. Once the above ground structure is built, the contractor can begin installing equipment, including a generator, odor control and pump systems.
- ✓ **Restoring the area.** The contractor will complete the final sewer connections, restore utilities that were temporarily moved, and restore the roadway. Landscaping, installation of new sidewalks, fencing, and restoration of easement areas will be carried out at this time. The project should be complete in early 2018.



*Artist rendering of the building to be placed at S Hanford St and MLK Jr Way S*

### ***Stay up to date!***

- ★ Join the email list – send an email to: [caryn.sengupta@kingcounty.gov](mailto:caryn.sengupta@kingcounty.gov)
- ★ Visit [www.kingcounty.gov/rainiertank](http://www.kingcounty.gov/rainiertank)
- ★ Call the 24-Hour Project Hotline: 206-205-9178



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## About the Rainier Valley Wet Weather Storage Project

Sewage flows through pipes under Rainier Valley to a King County treatment plant in Magnolia to be cleaned. During a storm, these pipes can fill up with sewage and stormwater. When this happens, some dirty water is released into the Duwamish River. This is unhealthy for both people and the river. King County is constructing a 340,000 gallon storage tank and new pipes to store wastewater until it can be treated. When the storm is over, the water will be sent from the tank in Rainier Valley to the treatment plant in Magnolia and then released to the Puget Sound.

如果您希望聯絡此計劃的人員，請致電206-205-9178 留言並且表明您所使用的語言。一位口譯人員將會回電給您（您無須支付任何費用）。

Để trao đổi về dự án này, hãy để lại tin nhắn tới số 206-205-9178 và nói rõ ngôn ngữ của quý vị. Một thông dịch viên sẽ gọi lại miễn phí cho quý vị.

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Si aad ugala hadasho qof wax ku saabsan mashruuca, fariin u dhaaf at 206-205-9178 oo sheeg luqaddaada. Turjubaan ayaa kugu soo laaban iyaddoonay kharash kugu joogin.

Para hablar con alguien acerca de este proyecto, puede dejar un mensaje llamando al 206-205-9178 e indicar su idioma. Un intérprete le devolverá la llamada sin ningún costo para usted.