

From The Director's Office:

Routinely the Public Works staff perform a myriad of tasks to preserve and maintain city infrastructure. Occasionally they are requested to provide services for very special projects such as the *Soaring Spirits* display at the Parks and Recreation building.

Facilities Maintenance Technician Javid Yamin was tasked with installation of *Soaring Spirits* which was designed by a Wilsonville resident to commemorate lives lost during the COVID-19 pandemic with paper origami cranes. Javid collaborated with City staff and the artist to create a lasting display using several stained wooden dowels mounted in the rafters to support the strands of cranes. Over 120 strands of these elegant cranes have been hung along the clerestory of the building. It is an amazing to see.



Starting the installation of Soaring Spirits



Best Regards,

Delora Kerber, Public Works Director

Utilities—Water

New Addition to the Water Crew

The water crew is pleased to announce a new member to the team, which fills a recent vacancy that had opened up due to a retirement. Chad Whiting has been promoted from the Utilities Maintenance Specialist position to a Water Technician Position.

Chad brings to the team over 14 years of experience working as a water distribution operator for the Springfield Utility Board. We are excited to put Chad's knowledge and skills to use repairing and maintaining the City of Wilsonville's water distribution system.



A familiar face, Chad Whiting

Wrapping up Annual Hydrant Inspections

This month the water crew continued to focus their efforts on wrapping up annual hydrant inspections and the valve actuation program. The crew will soon be shifting gears and begin replacing meters as part of the annual meter replacement program.



Sam Kinnaman turning valves

Utilities—Wastewater

Annual Inflow and Infiltration Report

As part of the National Pollutant Discharge Elimination System (NPDES) permit, the City is required to submit an annual Inflow and Infiltration (I & I) report. Inflow and infiltration occurs when ground water and surface water makes their way into the sanitary sewer collection system through cracks and holes in pipes and structures. Typically I & I occurs during the rainy season and puts extra strain on the wastewater treatment plant. The I & I reports annual statistics about how much of the sewer line was cleaned and how many manholes were repaired. In 2020, the Wastewater crew cleaned over 203,901 linear feet of sanitary sewer which is a new record high for the City. The crew repaired 53 manholes to improve flow conditions and reduce I & I. In addition to Public Works staff efforts, the Charbonneau Consolidated Improvement Plan CIP project included lining sewer mains with cast in place pipe (CIPP) to further reduce that ground and surface water from entering the system.

Teaming up with Engineering

The Wastewater crew has been working with the Engineering Department to assist with some potholing requests for future planning of the Charbonneau Consolidated Improvement Plan. Potholing is where the crew uses the hydro excavation feature of the Combination Cleaning Truck in order to dig down and expose potential utilities conflicts and take measurements of the findings. This information is then relayed to engineering so they can coordinate the relocation of the utility conflicts. The holes are back filled and re seeded with grass seed ,if necessary.



Potholed utilities



Backfilling the pothole

Facilities

Tree Reboot

The Facilities crew was tasked with replacing trees at the Wilsonville Transit Center that were not thriving. Daniel Morena used a saw to cut through the concrete, minimizing damage in order to access the tree base and then widen the opening. Great care was taken to keep as much of the concrete intact.



Due to the age of the trees and how deeply they were originally planted, heavy equipment was required to extract all the roots. After widening the hole in the concrete, two new tree types were planted: Crimson spire oak and European hornbeam. These trees will add shade during the summer months and vibrant red and yellow foliage in the fall.



Stormwater

Keep the Creek Flowing

During heavy rains in January, several streams flooded with water runoff from neighboring housing developments and streets. Boeckman Creek, west of Frog Pond, saw a marked increase in water volume. The creek has three inlets, but only two are visible. If the amount of water overwhelms the two inlets, the third is used to mitigate flooding.

Periodic inlet grate cleanings are required to keep the water flowing and prevent flooding. The Stormwater division was able to lower the water level an additional three feet by clearing the grates, allowing more water to flow freely and allowing the surrounding area to dry up.

Boeckman Creek Inlet #1



Before



After

Boeckman Creek Inlet #2



Before



After

Stormwater Cont.

Residential Catch Basin Cleaning

The Stormwater crew is currently cleaning catch basins in residential areas. All catch basins citywide are on a four year rotating schedule. Over time, the basins collect sediment which affects the efficiency. On occasion, cement from contractors cleaning their tools can be found inside. It very rarely sets up as a solid piece but it does require extra time to clean up thoroughly.



Catch basin

Roads

Crosswalk Signal Repair

A crosswalk signal on Commerce Circle and 95th was hit by a vehicle during a traffic accident. The force of the impact detached the signal pole off the pedestal entirely, exposing the electrical wiring and presenting a potential electrocution hazard. The Roads Maintenance crew secured the area with cones and caution tape before reporting the downed signal to the Clackamas County Roads Department.

Clackamas County repaired the pole and replaced the colored crosswalk signal box on top of the pole, due to the original being damaged beyond repair. Crosswalk signals are vital to pedestrian safety especially at locations with a high volume of traffic, such as the intersection at Commerce Circle and 95th Street.



Downed signal



New crosswalk signal

Roads Cont.

Erosion Control

While pruning swales on Tooze Road between 110th Avenue and Grahams Ferry Road, the Roads Maintenance crew noticed very murky, turbid water coming from a culvert. Further investigation revealed that a property owner had cleared a large piece of land that was behind a tree screen, not directly visible from the roadway. Without erosion control measures, the water was allowed to run off into the ditch unimpeded.

Straw wattles were installed to reduce the amount of sediment carried into the culvert, which drains into a pond across from 110th Avenue. Excess sediment could clog the lines that drain into the pond. As seen below, a simple mitigation can make a significant difference in turbidity.



Straw wattles



Before Installation



After Installation