

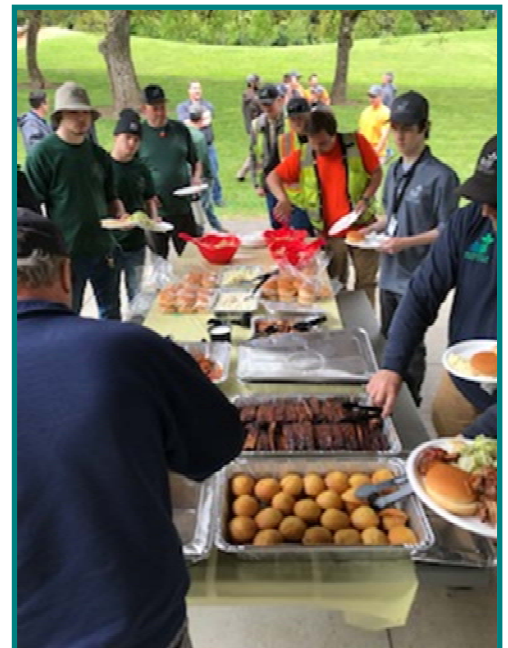
From The Director's Office:

National Public Works Week May 19—25, 2019

IT STARTS HERE



Public Works, Parks and Engineering staff members came together to celebrate National Public Works Week. To show staff our appreciation, the City hosted a barbeque lunch at the Grove Shelter.



From The Director's Office:

Public Works Operations Complex

We continue to make substantial progress on the development of the Public Works Operations Complex (PW Ops Complex) Master Plan with several milestone activities completed in May.

Sustainability Workshop: The city Project Management Team (PMT) met with SEA Architects to discuss our approach to sustainability for the PW Ops Complex. The group agreed the PW Ops Complex will be designed to meet a combination of the best elements of the Leadership in Energy and Environmental Design (LEED) and the Green Building Initiative – Green Globe Certifications. Utilizing these integrated design processes will assure this project is both environmentally responsible and resource-efficient throughout the facility's life-cycle. A customized "Sustainable Approach" goal and achievement document unique to the PW Ops Complex will be created and used as guidance during design of the Complex.

Concept Workshop #1: On May 17, the SEA team presented five conceptual site layouts showing potential structure locations and traffic flow routes. The configurations also identified potential locations for property ingress and egress, exterior storage areas, guest/employee parking lots and stormwater facilities. The best ideas from the various alternatives were then coalesced into one preferred site layout.



Concept Workshop #2: After enjoying the Public Works Week celebration lunch, the PMT and all PW staff had an opportunity to view and comment on preliminary building space allocations. SEA Architecture presented to unique configurations for the administrative building and the warehouse structure, respectively. Based on the feedback from staff, the architects will modify the drawings and present revised building layouts to the project management team for further refinement.

Next steps: Second review of preferred layouts by the project management team; analyze geotechnical and civil engineering issues, if any; develop preliminary stormwater design; estimate costs of preferred alternatives; and create a financing plan.

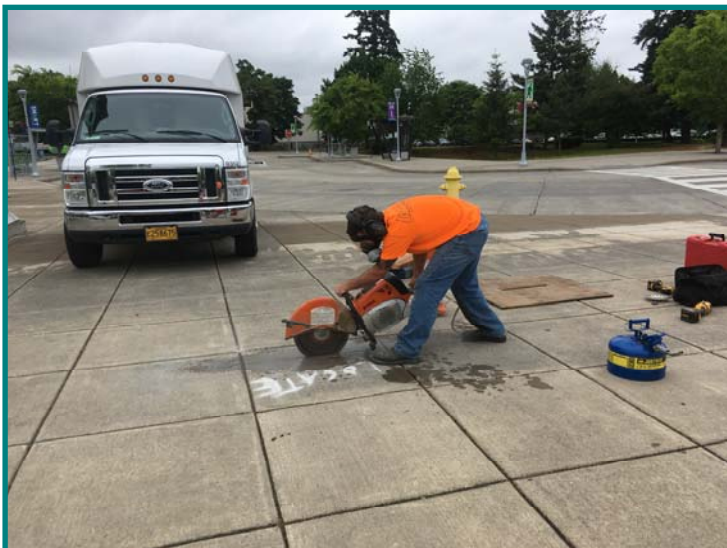
Facilities Division

A Day in the Life of a Facilities Worker

The Facilities crew assisted the Smart/Transit department with the installation of a solar powered reader board at the SMART Transit Station. At first look, you might think no big deal, however, there is a lot of work that goes into the project before the actual bolt down that most people know little about. The Facilities department would like to take this opportunity to walk you through the multiple steps needed to complete this small project.



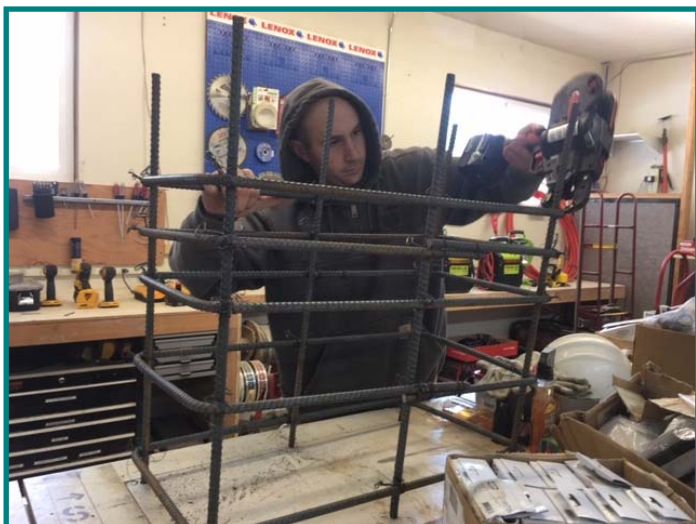
Crew members first met with the Smart/Transit staff on site to discuss the best placement and orientation of the reader board. Once the placement was agreed upon, the facility crew requested utility locates in order to ensure that the preferred location would work for the 36 inch deep footing required by the engineered drawings.



While waiting for the delivery of the reader board and the completion of utility locates, crew members began gathering materials needed for the construction of the footing. Reinforcement rebar, anchor bolts, and 20 bags of concrete mix made up the majority of the supplies. Once the locates were complete, Facility Technicians Ivan Crumrine and Javid Yamin, started laying out the area of the footing and cutting the existing concrete.

Facilities Division

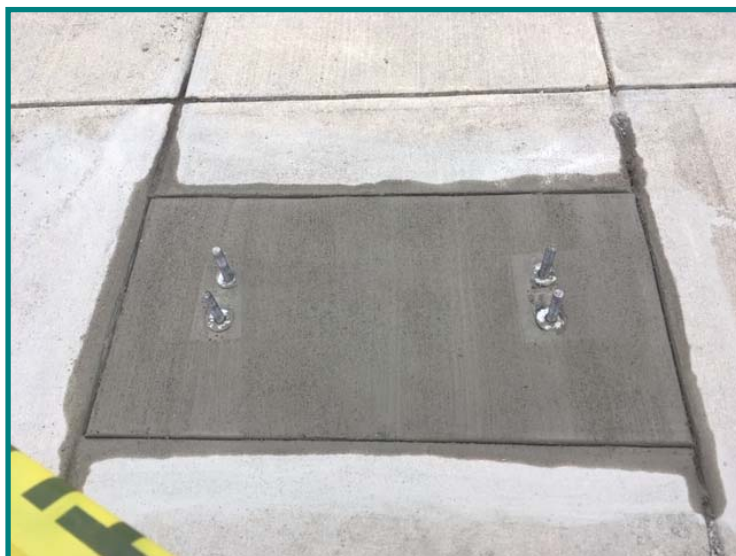
A Day in the Life of a Facilities Worker, cont.



Back at the maintenance shop, crew members cut rebar and built the reinforcement cage to be installed during the concrete pour of the footing.

The vacuum trailer was used to excavate the 2.5 foot x 1.5 foot foundation area to a depth of just over three feet.

Once staff found time in their schedule, Maintenance Specialist Daniel Morena and Facilities Technician Ivan Crumrine, proceeded with mixing concrete, securing the rebar and bolts, pouring concrete, and then putting a final finish on the concrete.



Facilities Division

A Day in the Life of a Facilities Worker, cont.

After the concrete had sufficient time to cure, Facilities Technician Javid Yamin and Facilities Supervisor Matt Baker transported the reader board to the site for installation. The unit was carefully placed over the bolts and securely bolted to the footing.



Next the solar panel had to be attached to the top of the reader board, wires inside of the unit were plugged into the appropriate terminals and the back panel was fastened to the unit with tamper proof screws. Finally, crew members called the vendor to confirm that the reader board was powered up and working properly.



Four days and 24 labor hours later...voila!!!

The project is complete.



Roads and Stormwater Division

Clean up After The Fire



Staff cleaning a stormwater inlet and installing BMP devices

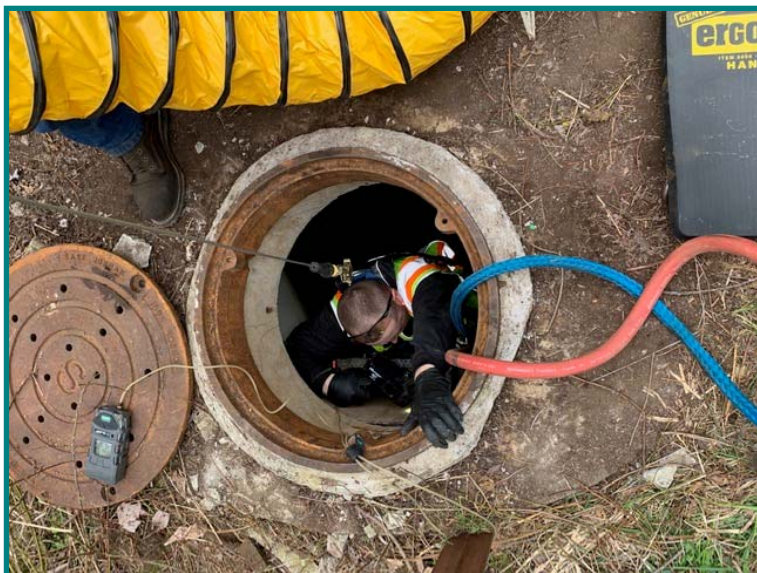
Within 48 hours of being allowed onto the fire site in Villebois, the Roads and Stormwater Crew worked together to inspect the stormwater system, install Best Management Practice devices (BMP), and repair a broken flow control device.

BMP such as straw swaddle, biobags, and catch basin bags were used to protect the stormwater inlets, catch basins, and ditches from sediment and floating debris.

Where appropriate, the crew installed float booms, on the natural drainage ways to collect any petroleum products or other chemicals released into the storm system by the fire.

Staff performed inspections of the stormwater system to determine what portions may have been affected by the Villebois fire. Staff quickly located the water quality manholes downstream of the fire site and proceeded to have them cleaned out. Additional cleanings, up to five times in select locations, occurred over the next three weeks. This was an important task to complete, since the excess amount of debris from the fire could prohibit the stormwater structures and basins from working properly and allowing pollutants to exit the system. Additionally, a flow control device in one of the manholes along the Tonquin Trail was repaired.

Fortunately, all the work was completed prior to any rainfall thereby minimizing the chance for any contaminants to reach Legacy Creek or ultimately the Willamette River.



Staff entry into a stormwater manhole



Equipment boom aids in accessing manhole

Utilities Division

Clackamas Community College Student Visit

The Utilities Division hosted a field trip for a group of students that are enrolled in the Water and Environmental Technology Program at the Clackamas Community College. The students received a glimpse of some of the roles and tools involved in the Utilities Division of Public Works. Randy Watson gave a presentation about our Industrial Pretreatment program. Andy Sheehan presented about GIS and how our asset management tool Cartegraph works. The Water Crew gave a tour of the "B" Level reservoirs and the Elligsen Well. The Sewer Crew performed an action packed demonstration of the capabilities of the Combination Cleaning Truck.



Paul Walker demonstrates the power of the high pressure hydro excavation wand by cutting through a piece of plywood.



Jetting Demonstration



Vacuum Demonstration