



**Public Works Department**

117 N Molalla Avenue

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**August 26, 2020**

TO: Dan Huff, City Manager

FROM: Gerald Fisher, Public Works Director

CC: Christie DeSantis, City Recorder

**RE: Project Update for Public Works**

The following is a list of public and private projects currently underway or in process.

**Administrative Projects Underway**

1. Staff is working on several individual home construction permits, pre-application projects for new developments, policy and procedure updates, and other improvements to the department.
2. Municipal Code Update – Staff continuing to work on rewrite of MMC Chapter’s 10, 12, and 13 as time allows.
3. ODOT ADA Ramp Replacements – ODOT anticipates construction to begin in December 2020 and continue through December 2021. Staff has informed ODOT representatives of events within the City during that time frame.
4. ODOT Crosswalk Locations – ODOT is working on an IGA. ODOT has agreed to the City maintaining the crosswalks at designated locations and work will begin once an IGA is in place.

**Public Capital Projects Underway**

5. 17-04 OR 211 Bike & Ped Pathway – Bidding completed. HP Civil deemed lowest bid at \$1,426,135.97. Engineer’s estimate was \$1,698,339. ODOT to issue notice to proceed and hold a kick-off meeting in September.
6. 17-15 WTP New Trident 2MGD Filtration Plant, Chemical & Telemetry Upgrades – New filtration unit, telemetry system and chemical feed system in operation. Demolition of old treatment unit underway. Anticipate completion by September 2020.
7. 18-04 WWTP Biosolids Removal – Biosolids removal completed for 2020. Over 400 dry tons removed for the year and contractor has shut down operation until next spring.
8. 18-08 Hwy 213 & Hwy 211 Safety Improvements – Waiting on ODOT to deliver project sometime in 2021. The City’s match is \$10,013 or 7.78%.
9. 18-08 Hwy 213-Toliver Roundabout – Loan agreement executed. Project currently in design and anticipate construction in Spring of 2023.
10. 18-11 Trout Creek Water Right Transfer – Staff issued notice to proceed starting 07/01/20.

11. 18-12 Trout Creek Monitoring Station – Flow monitoring underway and will continue thru the Summer of 2020. Anticipate project completion by December 2020.
12. 18-14 Decant Facility – Project design will begin in FY 20-21. This project will provide a dewatering station for street sweeping and vector debris prior to disposal. Project is currently in the planning stage.
13. 19-02 Water Master Plan & Water Management & Conservation Plan – Draft Chapters 1 through 8 posted to the website. TAC meeting #2 held last week and PAC meeting #2 scheduled for 09/16/20. Staff will only be taking comments from the public by mail or email due to ongoing COVID-19 restrictions related to meetings. Planning Commission and City Council hearings tentatively scheduled for the late 2020. Risk Assessment and Emergency Response Plan update beginning in 07/01/2020.
14. 19-03 City Hall Remodel Ph 3 – Draft design received and under review by staff. Anticipate construction later this year.
15. 19-05 Consent Decree Compliance Reporting – The 3<sup>rd</sup> quarter report is scheduled for 09/02/20.
16. 19-07 MFR Ped Bridge (P42) – Phase 1 improvements completed. Phase 2 design of bridge structure and pathway improvements underway and construction tentatively scheduled to begin by early 2021.
17. 19-09 OR 211-Molalla Ave Signal – Design of the signal is underway as part of the conditions for Project 19-04 Cascade Center listed below. Developer waiting on plan approvals from ODOT. Estimated construction starting sometime in September or October 2020.
18. 19-10 WWTP Upgrade – Loan application under review by DEQ. Once loan is approved, staff will issue a notice to proceed for design.
19. 19-11 Molalla Ave Intersection Improvements (5<sup>th</sup> & Heintz) – Bids were received and a Notice of Award issued. Contractor completing contract documents. Anticipate construction in September 2020.
20. 19-12 Phase 1 Project 2 Patrol Street Sewer and Water Reconstruction – Sewer main installed and Contractor is working on sewer laterals. Project completion anticipated by mid-October.
21. 20-04 Shops & Elementary School Waterline Replacement – Project design will begin in FY 20-21 and will replace pre-1950's waterline providing service to the shops facility and elementary school.
22. 20-05 Creamery Creek Park – Project design will begin in FY 20-21. New City park is on an 11,011 square foot parcel on Mary Drive next to Creamery Creek.

#### **Public Capital Projects Not Started**

23. Phase 1 Project 4 Eckerd Ave Sewer and Water Reconstruction – This project will replace the existing water and sewer lines on Eckerd Avenue, 2<sup>nd</sup> Street (Lola-Eckerd), and the waterline on 4<sup>th</sup> Street (Lola-Eckerd).
24. Phase 1 Project 6 Lindsey Addition to Molalla LS Sewer Reconstruction – This project will replace or slip line the sewer from the Molalla Avenue lift station to Hood Court.

#### **Private Projects Underway**

25. 17-20 Sawyer's Truck Repair – Contractor working on closing out first phase of project. Second phase will be reconstruction and frontage improvements along Toliver Road.

26. 18-16 Tractor Supply Store – Construction meeting for temporary access to be held tomorrow. Anticipate temporary access completion and store opening in September or October. Developer work with ODOT to complete full frontage improvements around the time the OR 213-Toliver Rd intersection improvements are constructed.
27. 19-04 Cascade Center – Anticipate plan approval later this month. Waiting on ODOT permits before onsite construction can begin.
28. 19-13 Dollar General – 3<sup>rd</sup> plan review completed and returned to developer.
29. 20-01 Colima Apartments – Construction underway. Anticipate completion of public improvements by the end of 2020.

## Capital Improvement Plan 2018-2023 project update

The City adopted a Capital Improvement Plan (CIP) in 1999 that covered the years of 1999 through 2004. Staff found no records of an updated CIP and began developing a CIP in 2016. Staff presented the 2016 CIP list to City Council at its meeting on 09/09/16. In 2018, City Council adopted an updated CIP for 2018-2023. The following list was provided on pages 6 through 8 of the CIP for projects completed, in design, or under construction between 2015 and 2018.

### **Capital Improvement Program – Completed Projects**

The following is a list of projects completed by the Public Works Department since 2015.

#### *Transportation*

- Heintz Street Extension
- Grange, Stowers, and Heintz Street Improvements
- Molalla Avenue Streetscape Improvements (3rd Street to Heintz Street)
- Transportation System Master Plan Update
- Section & Hart Pavement Reconstruction
- Shaver & OR 211 Pavement Reconstruction
- Lowe Road Jurisdictional Transfer
- Pavement Condition Index Study
- System Development Charges Update

#### *Wastewater*

- WWTP Aeration Basin Grit and Sand Removal
- WWTP Effluent Pump House HVAC Replacement
- WWTP Gravity Filter Media Replacement
- WWTP Headworks Screen Rebuild
- WWTP Aeration Basin Mixer Replacement
- WWTP Transfer Pump Replacement
- WWTP Lagoon Leak Study
- WWTP O&M Manual Update
- I&I Reduction Plan – SSMH Repairs
- Rate Study & System Development Charges Update

#### *Water*

- Heintz Street Waterline Improvements (West End to Kennel Avenue)
- Heintz Street Waterline Improvements (Kennel Avenue to Center Avenue)
- Stowers Road Waterline Improvements (5th Street to 7th Street)
- Molalla Avenue Waterline Improvements (3rd Street to Heintz Street)
- WTP Lab & Restroom Improvements
- WTP 1.2 MG Reservoir Cleaning and Inspection
- WTP Security Fencing and Gate Improvements
- Recycled Water Reuse Plan Update
- Rate Study & System Development Charges Update

#### *Stormwater*

- Molalla Avenue Stormwater Improvements (3rd Street to Heintz Street)
- City Hall Parking Lot Planter Island & Drainage Improvements
- Ross Street Stormwater Improvements
- Rate Study & System Development Charges Update

#### *Parks*

- Fox Park Splash Pad
- Rotary Park at BiMart complex
- Fox Park Mural Pad & ADA Access
- Long Park Bike Plaza
- Bear Creek Pathway & Footbridge
- Clark Park Property Consolidation
- Clark Park Improvements – Phase 1

#### *Facilities*

- City Hall Remodel – Phase 1
- Police Department Remodel and ADA Improvements

#### *Vehicles & Equipment*

- Vactor Truck Purchase
- Water Truck Purchase

### **Capital Improvement Program – Underway Projects**

The following is a list of projects currently in design or construction by the Public Works Department.

#### *Transportation*

- Fenton Avenue CDBG (Formerly Lola Avenue CDBG)
- OR 211 Bike & Pedestrian Improvements (OR 213-Ona Way)
- OR 213 & Toliver Road All Roads Transportation Safety (ARTS) Project
- Ona Way Jurisdictional Transfer

#### *Wastewater*

- Wastewater Facility and Collection System Master Plan Update
- Fenton Avenue Sewer Replacement (WWFCSMP Project 1)
- WWTP New Headworks Screen
- WWTP Headworks Gantry Crane
- WWTP Lagoon Biosolids Removal
- WWTP Permit Modification

#### *Water*

- Fenton Avenue Waterline Replacement
- Faurie Avenue Waterline Replacement
- WTP New 2MGD Filtration Unit
- WTP Sodium Hypochlorite and SCADA Upgrades
- WTP Aluminum Chlorohydrate (ACH) Upgrades
- Trout Creek Monitoring Station

#### *Stormwater*

- Fenton Avenue Stormwater Improvements

#### *Parks*

- Clark Park Improvements – Phase 2

#### *Facilities*

- Public Works Shops Facility Improvements
- Public Works Shops Decant Facility

After adoption of the 2018-2023 CIP, Public Works began implementing the projects listed in the plan as funds allowed. Below is a status update on the projects listed in the 2018-2023 CIP.

### **Capital Improvement Program – Completed Projects**

The following is a list of projects completed by the Public Works Department since 2018.

*Transportation*

- Fenton Avenue CDBG (Formerly Lola Avenue CDBG)
- Ona Way Jurisdictional Transfer
- Street Utility Maintenance Fee (Overturned by referendum)
- OR 211 and Hezzie Lane Enhanced Pedestrian Crossing
- OR 213 Speed Reduction for Roundabout Project
- Transportation System Development Charge Update
- Molalla Avenue & Heintz Street All Way Stop
- Molalla Avenue & 5<sup>th</sup> Street All Way Stop
- Shirley Street & Cole Avenue Safe Routes to School Improvements

*Wastewater*

- Wastewater Facility and Collection System Master Plan Update
- Fenton Avenue Sewer Replacement (High Priority Project 1)
- Fenton Avenue Sewer Replacement (High Priority Project 7)
- WWTP New Headworks Screen
- WWTP Headworks Gate Lift System
- WWTP Permit Modification (Administratively approved by DEQ)
- Wastewater System Development Charge Update
- Wastewater Fee Update

*Water*

- Fenton Avenue Waterline Replacement (Heintz to 158 Fenton)
- Fenton Avenue Waterline Replacement (158 Fenton to OR 211)
- Faurie Avenue Waterline Replacement

*Stormwater*

- Fenton Avenue Stormwater Improvements (Heintz to 158 Fenton)

*Parks*

- Clark Park Improvements – Phase 2

*Facilities*

- Public Works Shops Facility Improvements

*Vehicles & Equipment*

- Parks Mower
- Maintenance Division Utility Vehicle

**Capital Improvement Program – Underway Projects**

The following is a list of projects currently in design or construction by the Public Works Department.

*Transportation*

- OR 211 Bike & Pedestrian Improvements (OR 213-Ona Way)
- OR 213 & Toliver Road All Roads Transportation Safety (ARTS) Project
- OR 213 & Toliver Road Roundabout
- OR 211 & Molalla Avenue Signalized Intersection
- Molalla Avenue & Heintz Street Left Turn Lanes
- Molalla Avenue & 5<sup>th</sup> Street Left Turn Lanes
- Molalla Forest Road Bike & Pedestrian Pathway

*Wastewater*

- Wastewater Treatment Plant Upgrade
- WWTP Lagoon Biosolids Removal
- Patrol Street Sewer Replacement (High Priority Project 2)
- Eckerd Avenue Sewer Replacement (High Priority Project 4)
- Lindsey Addition to Molalla Lift Station Sewer Replacement (High Priority Project 6)
- Recycled Water Expansion

#### *Water*

- WTP New 2MGD Filtration Unit
- WTP Sodium Hypochlorite and SCADA Upgrades
- WTP Aluminum Chlorohydrate (ACH) Upgrades
- Trout Creek Monitoring Station
- Patrol Street Waterline Replacement
- Eckerd Avenue Waterline Replacement
- 2<sup>nd</sup> Street (Lola-Eckerd) Waterline Replacement
- 4<sup>th</sup> Street (Lola-Eckerd) Waterline Replacement
- Shops-Elementary School Waterline Replacement
- Water System Master Plan Update
- Water Conservation & Management Plan
- Risk Assessment & Emergency Response Plan

#### *Stormwater*

- On hold until Stormwater Master Plan Update.

#### *Parks*

- Creamery Creek Park
- Clark Park Walkway and Picnic Areas

#### *Facilities*

- City Hall Remodel Ph 3
- Public Works Shops Decant Facility

#### *Vehicles & Equipment*

- Big Gun #4

Once the Water System Master Plan Update is completed, staff will be preparing and updated CIP for Council's review and approval. The next master plan revision on the list will be the update to the 2005 Stormwater Master Plan.

Attached at the end of this memo is an update from Operations. This update covers several months of work by Operations. Thank you and let me know if you have any questions.



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August 25, 2020

TO: Gerald Fisher, Public Works Director  
FROM: Andy Peters, Operations Supervisor

**RE: Operations Update for City Council**

Gerald,

Attached is our Operations update, covering the period July 1st, 2020 – Aug 25th, 2020.

Respectfully,

Andy Peters  
Operations Supervisor  
City of Molalla



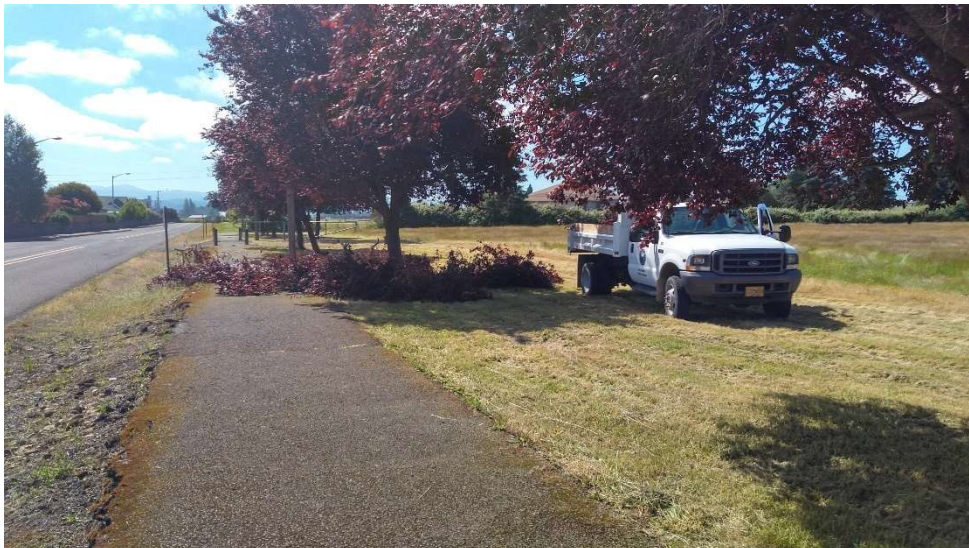


Installing a new Water Treatment Plant involves the cooperation of engineers, consultants, and contractors, as well as City Forces. Above, our Westech Engineer troubleshoots the City's new Water Treatment Plant after installation. Right, City Operator Jeff McCrum Chlorinates the new system, so that it could begin making clean drinking water for the first time. Below, contractors demolition the old Treatment System, cutting the steel tanks out piece by piece. The new treatment plant ensures Molalla's Water Production Capacity for the next 20 years.





Summer months provide opportunity for continuous improvement in all parks facilities, including tree trimming, mowing, and fire prevention. Above, a 15' deck mower is used on Bohlander Field in advance of 4<sup>th</sup> of July fireworks. Right and Below, City Crews trim 32 plum trees on the walking trail that flanks this field. About 60 loads of branches were hauled away.





Much of the work done by City Staff involves planning, layout, and troubleshooting so that the work subsequently performed is done effectively and provides the most benefit for everyone. Left, Lead Utility Employee Adam lays out new turn lanes that will be coming soon to Meadow Drive at Hwy 213. These turn lanes are a project identified in the Transportation System Master Plan.

Right, Utility Crew and Operators cooperate on troubleshooting an issue in the Effluent Wet Well at the Wastewater Treatment Plant. An unexpected coliform bacteria spike in mid-July prompted an additional cleaning and inspection of this facility. The yellow duct is blowing fresh air into the space to prevent a dangerous atmosphere while the employees work. Below, after the wet well is made safe, Operators can make their inspection.

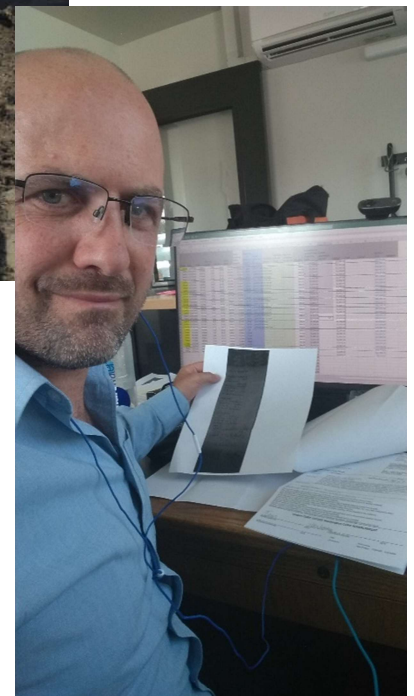


A Coliform bacteria spike is not necessarily abnormal for summer months when Chlorine Resistant Strains can bloom or build up in systems, Chlorine equipment has a hiccup, or the Chlorine Chemicals received from the manufacturer has a quality variance during a month. Normally the NPDES permit has provisions that allow operators to shock the systems with additional Chlorine, then resample. However, due to the additional testing frequency Molalla is required to perform, the bacteria counts ended up being higher than a normal Class C recycled water plant, and Molalla was forced to report NPDES Permit Violations.

Right, the view inside the wet well seen by the operators on the previous page. Here we can see the clean well, the components at the bottom are visible, meaning no coliform-containing sludge has accumulated and the components operation can be checked without doing a dangerous confined space entry.



Below, Supervisor Andy Peters works to track all bio-solids as they move through their disposal cycle. A significant effort is made to document each load hauled. Each truck manifest must be matched to the landfill tipping weight tickets, total % solids measurements, contractor's invoices, and Molalla's Laboratory data.



Above, the last few loads of Biosolids are removed for the year at the Wastewater Plant. The final total is 406 dry tons removed.



Left, Irrigation of effluent was performed continuously, 7-days per week, throughout June and July, attempting to recover the lagoons from dangerously high levels experienced this spring. Due to abnormally high Biochemical Oxygen Demand in Effluent, Molalla was forced to compensate by operating the Aeration Basin's mixers 24hrs per day to add as much oxygen as possible. However, half way through June one of the mixers' shafts shattered (below), demonstrating why this equipment needs proper cooldown and cycle times. The same kinds of stresses can be seen on the irrigation equipment when it is run 24/7.

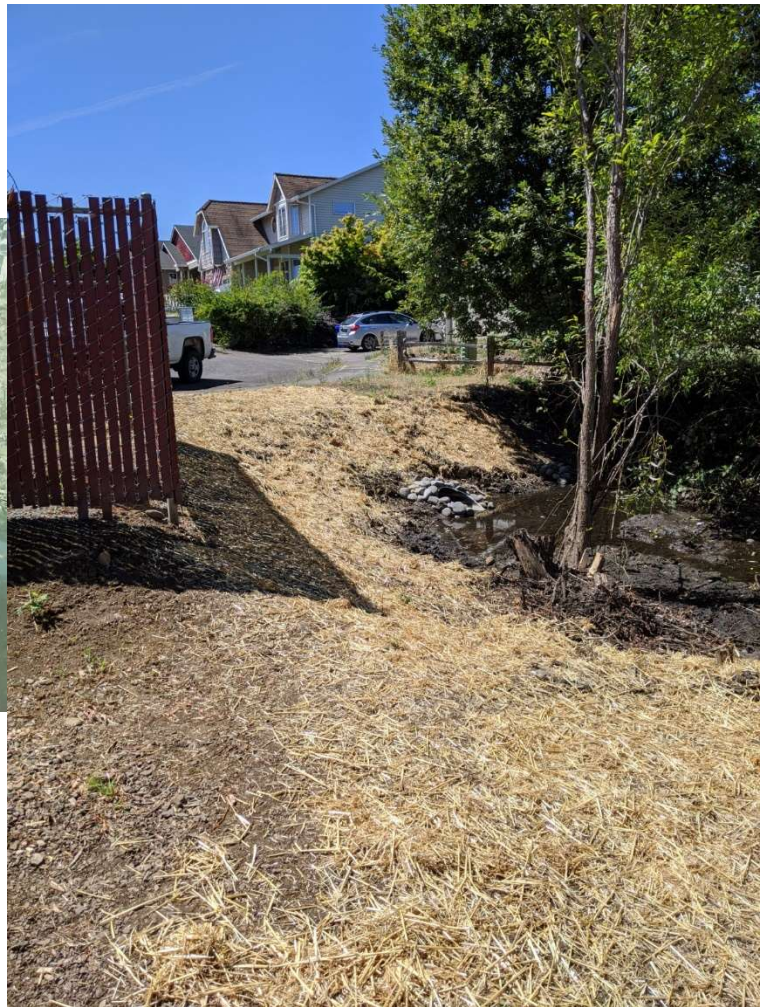


City Crews prepared for the new turn lanes going in at 5<sup>th</sup> and Molalla by installing the ALL-WAY stops. This is the third improvement to this intersection performed by crews in the last two years – the first being ADA ramps, then four new crosswalks, and now signage. When the turn lanes are finished in the upcoming weeks Molalla will have achieved the Transportation System Master Plan’s goals for this intersection.

Right, Utility Employee Devin Oei installs the stop sign on the Southwest corner of Molalla Ave at 5<sup>th</sup>. Below, warning drivers of these changes is handled in accordance with state law, including “New Traffic Pattern Ahead” signs in all four directions. They will remain until the end of October.



Storm swales are high-maintenance facilities, and the City does its best to provide as much service as budget allows. Right, an inspection of the Coho Street Swale this spring found a broken inlet pipe, and sediment covering more than half the outfalls' diameter, which is the signal that the swale is due for sludge removal. Below, is a photo of the same inlet after dredging, pipe repairs, and installing class 50 Rounded rip-rap from stockpiles on hand. The sides of the swales were reseeded and protected from erosion with straw.



City crews place over 630 tons of cold mix asphalt on pot holes between July 2019, and July 2020. However, cold mix pothole filling does little good since many of Molallas roads were build with no compacted base rock and only 4 inches of hot mix asphalt. This can be seen in things like the “alligatoring” happening on Francis St by the High School.



Nothing is going to solve this kind of road breakup but a full dig out. When hot patches are done today, like for the new crosswalk shown here, the City installs 6-12 inches compacted base rock over a layer of geo fabric, and at least 6 inches of asphalt. Below: the new crosswalk turned out well, but budget only allows Molalla to perform a few such digouts each year. More reporting on streets will be coming next month.

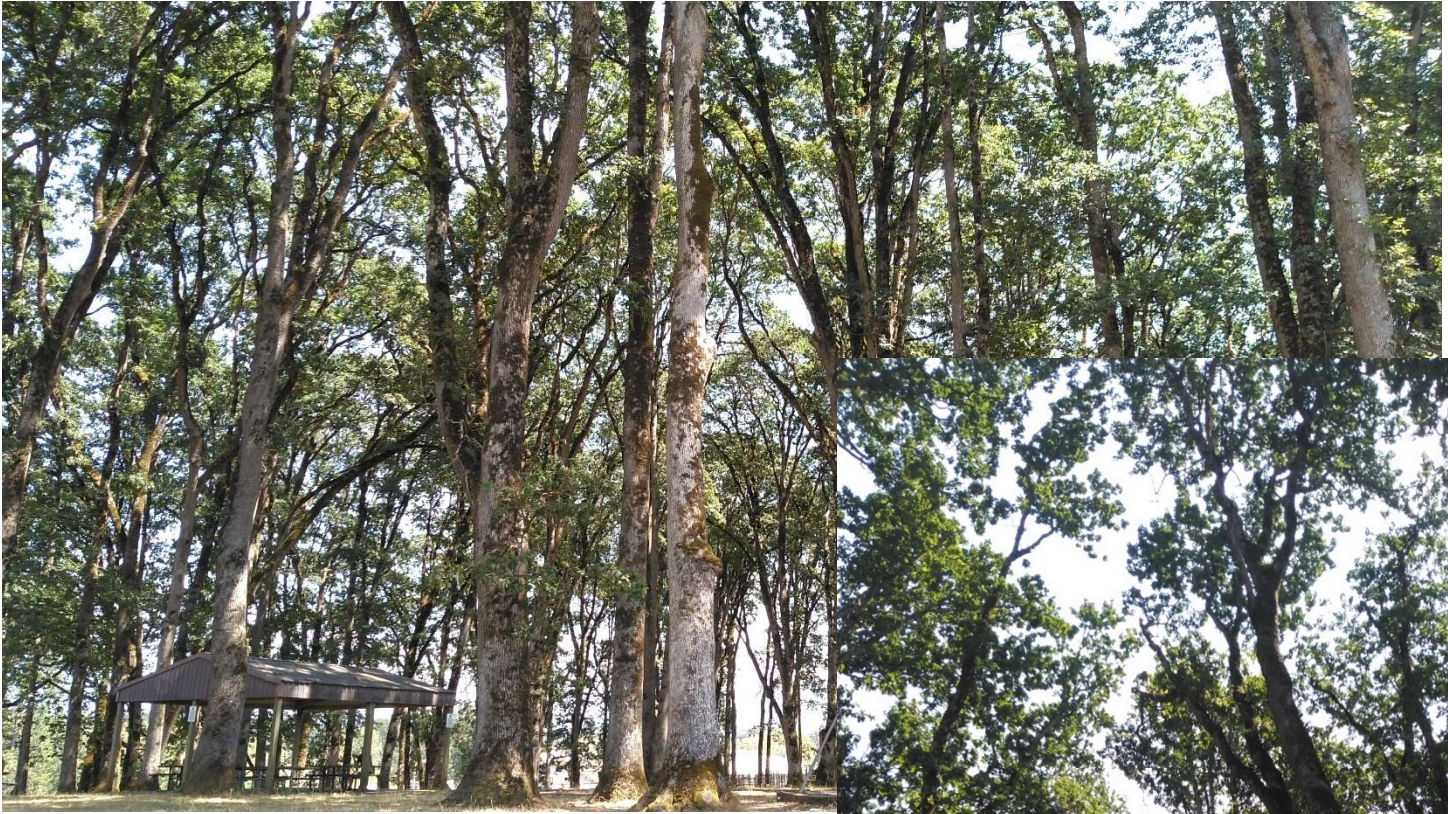






Utility crews work without ceasing all summer long to maintain City Properties. Above, Cody mows the field north of Clark Park. Below, Jamie and Devin troubleshoot an issue with the irrigation system on the soccer fields. These two are seen again, Right, weed whacking at the PAL Building. Since the Warming Center's operations have ended for the year and the building is not in use by the tenants (except for the County's Mobile Shower), the City takes over the maintenance by agreement.



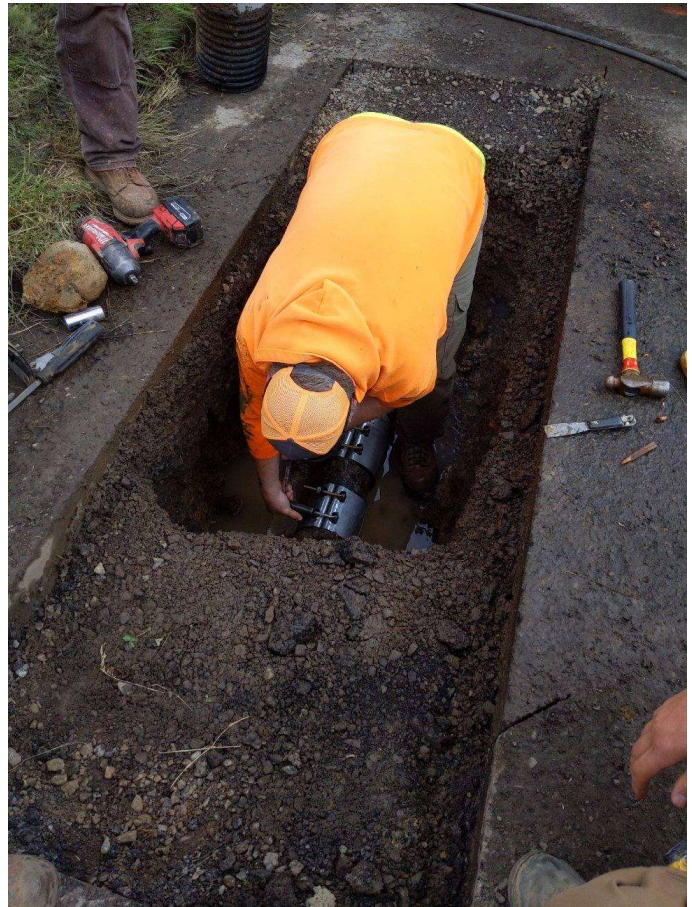


It's easy to report the jobs being performed by public works on a daily basis, but what is not so easy to report is how these jobs are interconnected, and form a longer term strategy of Municipal Maintenance and Best Management Practices, as shown by the result of this three year tree maintenance program. The photos here show the results of several years' worth of planning and execution. Over 140 trees grace Clark Park's White Oak Grove, and to ensure safety of park users, and preserve the health of the grove, the trees were re-numbered, catalogued, and surveyed for health by a certified arborist in 2018. The following year the City performed all the recommended maintenance on these trees, including falling two diseased trees, and removing hundreds of dead-wood and widow makers from their tops. This year the grove is visibly healthier, and sightings of unwanted pests, like carpenter ants and termites, has decreased.





City Crews are constantly replacing and repairing water services and mains. Left, two new service saddles are placed on an 8" PVC pipe in Big Meadow, replacing more corroding copper services. Below, Devin unwinds new PEX Pipe for these new services, and Rich tightens steel bands on an older leaking mainline in July.





Above, Jamie helps with mowing at the Wastewater Treatment Plant, and Left is a view of the new piano-hinged heavy-gauge steel doors that replaced the failed doors at Clark Park. These doors were destroyed due to vandalism and forced entry to the point that replacement was necessary. The new doors should be more resistant to vandalism going forward.

Metrics for this period appear on the following page.



# Work In Process

## Current Load by Team

Team	Backlog (# of WOs)	Promise Date Performance
Utility Crew	50	99.84%
Wastewater Plant	32	94.86%
Water Plant	22	95.25%
Supervisor	36	100%

## Current Financial Encumbrances (Open/Approved POs by fund) for Operations

Fund	Account#	\$\$
Sewer Fund	106-601-5-*	\$43070.2
Water Fund	105-501-5-*	\$44898.81
Storm Fund	108-801-5-*	\$5000
Park Fund	101-106-5-*	\$2508.12
Street Fund	104-401-5-*	\$38305.71
		-----
TOTAL		\$133782.8400

# Work Complete During Period

## Work Orders Completed (by Fund)

Water	127
Sewer	92
Storm	7
Street	40
Fleet	15
General_parks_facilities_ect	120
SplitFund_locates_etc	19
Capital	0
Other	34
	-----
TOTAL	454

## Work Orders Completed (by Team)

Utility_Crew	323
Wastewater_Plant	51
Water_Plant	69
Supervisor	11
Corrective_Action	0
Deep_Backlog	0
	-----
TOTAL	454