



CITY OF ASTORIA

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MEMORANDUM • PUBLIC WORKS DEPARTMENT

DATE: JANUARY 20, 2026
TO: MAYOR AND CITY COUNCIL
FROM: SCOTT SPENCE, CITY MANAGER
SUBJECT: PUBLIC WORKS STATUS UPDATE

The following are summaries of the status of Public Works major projects and activities:

WATERSHED

Watershed Road System

- The Public Works Director and Forester are working with the Lower Columbia Watershed Council on a conceptual project to supply Large Woody Debris (LWD) trees for their Bear Creek Habitat Improvement Project. Once vetted, staff will bring the project before Council for review and approval.
- Routine road maintenance – Our Water Source Operator has been conducting routine road system maintenance.
- 2025 Bear Creek Watershed Forest Carbon Project
 - The City of Astoria launched a voluntary forest carbon project in 2015 to generate revenue through the sale of carbon credits. To date, the project has generated approximately \$837,500 in net proceeds from two credit issuances. The project is currently undergoing its required five-year reverification under the American Carbon Registry (ACR), which could result in the issuance of up to 40,000 additional carbon credits, potentially generating \$400,000–\$600,000 in revenue. Council reviewed the FY 2025/26 Annual Operating Plan on April 7, 2025, which identified the carbon project as a key priority.
 - The carbon inventory phase is substantially complete, and third-party verification is underway. This work is being managed by David Ford (L&C Carbon), with verification services provided by Aster Global Environmental Solutions Inc.
- Cedar Creek Bridge Project (ON HOLD)
 - City staff and City Forester Ben Hayes developed a concept plan to replace the deteriorating Cedar Creek road crossing within the City's watershed. The plan proposed constructing a new bridge along the existing road alignment. However, updated construction cost estimates have increased significantly (approximately \$500,000) due to inflation, making this option financially unfeasible. Additionally, the Oregon Department of Fish and Wildlife (ODFW) determined that the bridge project would not qualify as mitigation for the Spur 12 culvert project.

- The City Forester is now collaborating with the Oregon Department of Forestry and ODFW to explore a new strategy for fulfilling the City's mitigation obligations. This will likely involve a culvert replacement project elsewhere within the watershed.
- Alternative solutions for addressing the failing culvert and road crossing are currently under review. These may include a more cost-effective approach, such as removing the existing crossing, restoring the natural streambed, and constructing a simpler crossing at a different location.

WATER SYSTEM

Slow Sand Filter Re-sanding Project 2025

- The project, awarded to Big River Construction, continues to progress. Cell 1 has been successfully re-sanded and is in the process of being returned to service. Once this cell is fully operational, work will begin on the next cell.
- This project replenishes the filter media in the City's slow sand filters, ensuring their continued effectiveness and maintaining high-quality water treatment for the community.



Pipeline Road Waterline Resilience Project (ARPA Grant Project)

- Grant agreement with the Infrastructure Finance Authority (IFA) was approved.
- Tetra Tech was awarded the engineering services contract.
- Tapani, Inc. was awarded the construction contract.
- Change order was approved to increase the pipe length.

- Construction of this project was substantially completed in August.
- Change order was approved to utilize most of the remaining grant funding for rock for Pipeline Rd to mitigate for impacts from construction equipment.
- Close-out administration is underway.

16th Street Distribution Waterline Project (ARPA Grant Project)

- Construction on this project is substantially complete, and Staff is currently working on close-out administration.

Irving Ave from 20th St to 28th St Waterline Project (Congressionally Directed Spending)

- *No status change since the last update.*
- The project will replace an existing 6-inch cast iron waterline that is nearly 100 years old with a new 12-inch pipe constructed of modern resilient materials.
- The City was notified by U.S. Senator Jeff Merkley's office that \$1.8 million in grant funding has been allocated for this project.
- Staff has obtained a waiver for the 25% match portion of this grant, resulting in a 100% grant-funded project.
- Staff will be working on the application submittal as time permits.
- Further updates and details will be provided to City Council as they become available.

Automated Water Meter Reading (AMR) System Project

- The Public Works Department has completed the installation and implementation of the new AMR system for downtown and large commercial customers.
- City Council approved a strategy to purchase and install AMRs over a 4-5 year period. We have budgeted \$200,000 for new meters this fiscal year and plan to allocate \$200,000 each fiscal year to install the meters over time.
- Residential AMR water meter replacement is underway.

Old Highway 30 – Emergency Waterline Relocation Project

- *No status change since the last update.*
- The Department of Labor will not be proceeding with landslide mitigation work along its roadway due to a lack of funding.
- Due to the continued risk in this area, the City still plans to move forward with a project to relocate the existing waterline away from the toe of the slope.
- We are working with the City Attorney to coordinate an agreement for the relocation of the utility with the Department of Labor. We have recently established an active dialogue and will be working on finalizing an agreement/easement for the waterline relocation.

Dam Safety Program Projects, Bear Creek Dam Emergency Spillway, Main & Wickiup Dam seismic Studies (Oregon Water Resources Grant Projects)

- At the August 19, 2024, City Council work session, the Public Works Director presented the current status of all activities involving the Oregon Dam Safety Program compliance efforts. Following is the status of all activities taking place within the program:
 - Emergency Action Plan – Completed in 2012.
 - Bear Creek Dam Seismic Study – Completed in 2016.
 - Design Inflow Hydrology Report/Probable Maximum Flood (PMF) determination – Completed in 2021.
 - Scour Analysis of flood overtopping dam – Completed in 2022.
 - Bear Creek Dam Leak Investigation & Repair – Completed in 2022
 - Design Study of Alternatives for Emergency Spillway – Completed in 2024.
 - Final Design of selected emergency spillway alternative – On hold pending funding source.
 - Seismic Study of Wickiup Lake Dam – In progress.
 - Seismic Study of Middle Lake Dam – In progress.
 - Repair of Wickiup Lake conduit and control structure – Planned to be completed within the next 2 years.
 - Repair of Main Lake conduit – Planned to be completed within the next 3 years.
 - The City has entered into a Consent Order with the State (approved at April 7th Council Meeting) which outlines the specific corrective actions and schedule for implementation.

SANITARY SEWER SYSTEM

COVID-19 Wastewater Monitoring

- *No status change since the last update.*
- Staff continues to provide COVID-19 testing results from the City Wastewater Treatment Plant (WWTP) for the Oregon Health Authority (OHA) Program. OHA has launched a statewide COVID-19 wastewater-monitoring project to study the presence of the SARS-CoV-2 virus in more than 40 small- to medium-sized communities around the state. The project, which will include weekly wastewater testing over a 30-month period, will enable epidemiologists to better understand the circulation of COVID-19 in some of Oregon's communities. It will serve as an "early warning" system.

Wastewater Treatment Plant Improvements Project (ARPA Grant Project)

- *No status change since the last update.*
- Gibbs & Olson was awarded the engineering services contract.
- Grant agreement for the ARPA funding of \$4,860,000 has been fully executed.

- Funding Agreement with OBDD was fully executed in May 2024, which includes a \$425,000 grant and a \$2,006,500 loan.
- Funding Agreement Amendment No. 1 with OBDD for an additional loan amount of \$2,527,732 was authorized by City Council on September 23, 2024.
- Big River Construction was awarded the construction contract.
- Construction started the first week of April 2025 and is expected to be completed in Summer 2026.



Sewage Lift Stations Rehabilitation Project

- Three sewage lift stations have been maintained for approximately 50 years with uninterrupted use. Recent maintenance activity has exceeded normal levels due to the components being beyond their design life.
- Design phase funding agreements were authorized in May 2024: 1) OSG grant amount of \$185,880 and 2) DEQ CWSRF loan amount of \$119,920 with 50% principal forgiveness. An additional OSG grant in the amount of \$200,001 was authorized in February 2025.
- Richwine Environmental finalized the Project Definition Report that recommended a CM/GC alternative bidding method for this project. City Council held a Public Hearing and approved this alternative bidding method.
- A funding amendment through the DEQ CWSRF program for the construction phase will be presented to Council on October 20th.
- Construction is anticipated in Summer 2027.

Melbourne Ave. SS Replacement Project

- *No status change since the last update.*
- This project includes the replacement of approximately 120 feet of deteriorated sanitary sewer pipe on Melbourne Ave.
- This project has temporarily been placed on hold to accommodate other project priorities.

COMBINED SEWER OVERFLOW (CSO) SYSTEM

CSO Program

- Staff presented a Draft Integrated Plan at the January 27, 2025 City Council work session. Staff submitted the draft to DEQ and addressed their comments.
- Staff presented the Final Integrated Plan at the September 29, 2025 City Council work session.
- On October 6, 2025, City Council adopted the Final Integrated Plan through Resolution 25-34.
- The approved Integrated Plan results in a program extension giving staff time to scope Phase 5 (last phase) of the CSO Program and pursue grant funding. DEQ has approved the program extension that will be included in the City's future NPDES Permit.

TRANSPORTATION SYSTEM

17th Street Dock Floating Dock Replacement

- Staff is working with a marine designer to prepare a request for proposals for a new floating dock to replace the existing dock that is failing. The cost of annual repairs on the dock is excessive as the dock has exceeded its useful life (35 years old). The project is currently funded under the 17th Street Dock Fund.

Trolley Trestle Repair Project 2025

- DOWL, structural consulting engineers completed the structural inspection in early July 2025.
- City staff is finalizing a contract with DOWL to assist with design, bidding and construction management for the work.
- City Council authorized bidding advertisement at their meeting on January 5th.

Trolley Infrastructure Maintenance Planning

- *No status change since the last update.*
- The City will work with the Riverfront Trolley Association (RTA) to update the operational agreement that guides the use of the tracks and associated infrastructure.
- The Riverfront Trolley Association (RTA) has worked diligently to repair several track deficiencies identified by the Oregon Department of Transportation (ODOT) Rail Division during their inspection. This effort has included replacing numerous deteriorated railroad ties. The City has partnered with the RTA to ensure that materials and equipment are available for maintenance work, yielding very positive results. Currently, no identified issues will prohibit the Trolley from operating.

- The City and the RTA are collaborating on a project to replace the 16th Street rail crossing to address both rail and roadway deficiencies. This is planned for Spring 2026.

Coxcomb Guardrail Repair Project

- Staff prepared and distributed a request for quotes to get competitive pricing for guardrail repair along Coxcomb Drive near the Astoria Column.
- Construction is planned for late winter/early spring 2026.

Street-end Bridge Cathodic Protection Project

- Staff is coordinating with Norton Corrosion Limited to develop a scope and fee for repair of cathodic protection associated with the new waterfront bridges from 7th to 11th Street.

City and Hwy 30 Chairwall Issues

- *No status change since the last update.*
- The City of Astoria has a downtown where the roadways are supported by a wall system commonly referred to as a Chairwall system built in 1919 and 1922.
- US Hwy 30 through town is supported by the wall system between 5th Street and 17th Street.
- There are two locations where the wall system supporting Highway 30 is failing. The first location is on Marine Drive between 9th and 10th Streets, and the second location is between 16th and 17th Streets.
- Staff has communicated with ODOT regarding the need to repair the failing wall segments supporting the highway. ODOT has informed staff that they will route oversized loads away from the wall segments through their oversized freight traffic permit process.

SANITATION

Landfill Post-Closure Activities

- *No status change since the last update.*
- Household Hazardous Waste Facility: Staff will continue to work with County staff on DEQ gas monitoring requirements.
- Staff is continuing to work with the Oregon Department of Environmental Quality (DEQ) on post-closure activities, including gas and groundwater monitoring. A final permit has been issued, and staff is currently working on the final document requirements for the site. Once all operation manuals are complete, staff will proceed with the annual reporting required for the term of the post-closure period.
- During periodic utility inspections, it was determined that a critical stormwater pipe through the site showed signs of failure. Staff is developing a plan to replace the pipe and will monitor its condition in the meantime. Funding for this project has not yet been identified.

- Staff have completed the Landfill Closure Permit renewal process with DEQ. The term of the permit renewal is ten years so it will expire on December 31, 2035.

Recycling Modernization Act (RMA)

- *No status change since the last update.*
- Local Funding Authorization Form to authorize Recology Western Oregon to receive the funding on the City's behalf was approved by City Council on April 21, 2025.
- Staff has prepared and City Council has approved a lease amendment with Recology that will provide a small amount of additional space for recycling facilities at the transfer station.

FACILITIES

- No significant projects are currently underway

LANDSLIDE RESPONSE AND UTILITY REPAIR

27TH Street and Grand Avenue Landslide

- Engineering Division staff are currently working with a consultant on a design to restore infrastructure in the area.
- Stop-gap repairs have been completed on the sanitary sewer pipe and storm drain flume system.
- Completion of more permanent repairs is anticipated in late summer 2026.
- Staff worked with property owners to secure the easements needed for the relocation work.
- Staff are working on plan revisions to better address drainage associated with the planned work after observations made during a prolonged period of intense rainfall.
- Staff continue to monitor landslide movement, primarily on Irving Ave.

5th Street and Commercial Street Landslide Clean-up

- North Pacific Excavation completed clean-up work on the 5th St. and Commercial St. landslide in September 2025.
- Public Works staff are currently working on close-out documentation and monitoring.
- Clean-up efforts for additional soil movement will be on-going this winter. A semi-permanent no parking area will be established adjacent to the concrete debris barrier until the slope can stabilize.

PUBLIC WORKS ENGINEERING

Development Review Workload

- In calendar year (CY) 2026, the Engineering Division anticipates a sustained and significant development review workload, driven largely by construction coordination for several large commercial projects approved in previous years. While overall permit intake has declined, the complexity, scale, and coordination demands of current projects remain high. We are working on ways to increase review efficiency and minimize impacts on Public Works priorities. However, work associated with development review is expected to substantially impact staff resources available for capital improvement projects this year.
- Within the next year, Staff anticipate coordinating, reviewing, and overseeing construction associated with nearly \$300 million in private development. These projects require extensive staff involvement for plan review, inspection coordination, utility connections, traffic control, and compliance oversight throughout construction.
- Unpermitted work continues to place an increasing burden on Public Works resources. When work, such as utility connections, sidewalk repairs, grading/excavation, or driveway installations, is performed without the required permits or inspections, staff must shift from planned priorities to response efforts. This often involves site investigations, coordination with property owners, enforcement measures, and, in some cases, removal or correction of work that fails to meet City standards or creates safety concerns. These unexpected demands disrupt daily workflows, delay progress on capital and maintenance projects, and divert resources from development review and other essential services. Unpermitted work also undermines the City's efforts to maintain consistent infrastructure standards and protect the long-term reliability of its public systems.
- **Permit Activity Summary | CY 2025**
 - Public Works Permits
 - Received: 208 (380 in 2024; 353 in 2023)
 - Issued: 233 (292 in 2024; 323 in 2023)
 - In April of 2025, modifications were made to the Grading and Erosion Control section of the ADC to expand the permit exemptions associated with emergency repairs and low impact activities. These changes likely contributed to the reduced number of permit applications received and processed.
 - Currently, 46 Public Works permit applications are in process:
 - 36 assigned for review
 - 6 awaiting additional applicant information
 - 1 on hold
 - 4 ready to issue and awaiting payment
 - Temporary Street Use & Sound Amplification Permits
 - Received: 145 (169 in 2024; 147 in 2023)
 - Issued: 133 (161 in 2024; 141 in 2023)

- Beginning in October 2024, franchise utility providers were granted prescriptive approval for lane, parking, and sidewalk closures, with Temporary Street Use and Sound Amplification Permits required only for full street closures, contributing to the decline in permit applications.
- Two employees were onboarded in September, one filling a replacement position and one serving as a temporary administrative hire to assist with the existing permit backlog, and the current review volume reflects continued efforts to address pending permits.

GIS Updates

- GIS staff have continued to make database and data management improvements. User experience improvements have been made to our desktop and mobile applications for both City staff and public use.
- GIS staff have developed a UAS (Uncrewed Aircraft Systems)/Drone program to add aerial imagery and other associated resources to the City. This has already been used for natural resource monitoring, infrastructure inspection, and construction monitoring. Over 40 missions were conducted in 2025.
- GIS staff have migrated Automated Meter Reading (AMR) data collection to an electronic form. This provides an accurate location of assets along with validated data collection. Workflows have been developed to create products used by Public Works and Finance staff that are regularly updated and sourced from a single, authoritative dataset.
- Operations staff are using tablets in the field, which makes their access to GIS data more efficient and helpful. Their use is expanding with AMR data collection and additional mapping application availability. Additional asset data collection forms have been created, extending the beneficial uses of the system by additional operational field staff. Setup and training are planned to be complete by the end of October.

PUBLIC WORKS OPERATIONS

The following items highlight some of Operation's recent work:

Personnel and Training:

- Public Works staff completed an extensive amount of training and professional development during the fourth quarter, supporting regulatory compliance, safety, and operational resilience. Multiple employees obtained or renewed professional certifications, including wastewater and water system credentials, CDL licenses, and HazMat endorsements. Department-wide safety training included hazardous communication, chlorine awareness and response, confined space rescue, trench safety, traffic control, forklift operation, and AED refresher training, with participation by all operations staff. Several employees also completed specialized equipment and leadership training. One senior facilities position became vacant following a resignation effective December 1, 2025.

Water:

- Water crews completed repairs on 16 water leaks and main breaks during the quarter, many involving aging cast iron infrastructure and requiring emergency or after-hours response. Two major main breaks alone resulted in more than 88 hours of overtime, highlighting the increasing maintenance demands on the system. Crews replaced 100 legacy water meters with AMR units and installed AMR meters on new services, improving system monitoring and efficiency. In addition to leak response, staff completed multiple system improvements and maintenance activities at reservoirs, tanks, and headworks facilities, including pump, valve, sensor, and chlorination system upgrades. Careful coordination with contractors ensured uninterrupted service for commercial customers during planned shutdowns associated with new development.

Sewer:

- Sewer operations focused on both preventive maintenance and emergency response during a wet weather-intensive quarter. Crews conducted targeted cleaning and root removal on hundreds of feet of sanitary sewer main, restored and repaired pumps and valves at multiple pump stations, and responded to numerous high-level and wet well alarms triggered by heavy rainfall. Staff supported construction activities for the Wastewater Treatment Plant Improvements Project by coordinating overnight shutdowns and bypass operations across five pump stations. System monitoring and preparedness were further enhanced through equipment upgrades and completion of a draft Wastewater Alarm Response Plan.

Stormwater:

- Stormwater crews performed extensive seasonal maintenance citywide, cleaning all catch basins and storm inlets across every City zone, representing more than 900 labor hours during the quarter. Heavy storm events required emergency responses to flooding and infrastructure failures, including pumping and rodding operations, oil separator repairs, debris removal from conveyance systems, and investigation of sinkholes. One sinkhole investigation identified a major culvert in need of replacement, informing future capital planning needs.

Transportation:

- Street operations were significantly impacted by severe weather, including a major storm event that delivered over 9.5 inches of rain in early December. Crews responded to landslides, sinkholes, flooding, fallen trees, and culvert failures, providing traffic control and road closures where necessary to maintain public safety. Routine maintenance continued alongside emergency response, including 218 hours of machine mowing and 235.5 hours of street sweeping. Crews also completed thermoplastic striping and parking delineation at multiple locations, repaired a major sinkhole along the Riverwalk, replaced downtown streetlights, managed vegetation encroachment, and removed eight reported animal carcasses from city streets.

Shop and Yard:

- The Shop and Yard supported both Public Works and other City departments through equipment maintenance, inspections, and repairs. Staff completed required crane and hoist inspections, performed 58 hours of maintenance on a single mower, and provided more than 155 hours of interdepartmental vehicle maintenance for the Fire Department, Police Department, Parks, and Building Department. Major equipment investments during the quarter included the purchase of a new vactor truck and other tools essential to maintaining core infrastructure and responding to emergencies, all of which were funded within the current fiscal year budget.

Miscellaneous:

- Public Works staff provided ongoing support to City facilities and community needs beyond core utility and street operations. Work included mechanical and security-related repairs at City Hall and Fire Station #2, installation of holiday lighting throughout City facilities and downtown, and setup of the City holiday tree. Staff also conducted inspections at Heritage Square in support of continued site oversight.

BY: JEFF HARRINGTON, PUBLIC WORKS DIRECTOR

SUMMARY OF INFRASTRUCTURE GRANTS AWARDED

Staff has dedicated many hours of hard work to securing and administering grant funding for projects that would have otherwise been funded by incurring debt service, resulting in subsequent rate increases. Since 2006, Public Works has secured or assisted with approximately \$50 million in grant funding for the City.

Staff met the American Recovery Plan Act (ARPA) grant requirements for the following projects:

- OR202 Waterline Replacement Project - \$1,772,000
- Wastewater Treatment Plant (WWTP) Improvements Project - \$4,860,000 (ARPA Grant) + \$425,000 (OBDD Grant) + \$4,959,232 (OBDD Loan)
- Pipeline Road Waterline Resilience Project - \$2,930,000
- 16th Street Distribution Waterline Project - \$2,790,000

- Note: the Wastewater treatment Plant Project continues under the loan funding.

Staff met the FEMA and IFA Pre-Hazard Mitigation grant requirements for the following project:

- Pre-Disaster Landslide Storm Drainage Project - \$902,487.50 (75% or \$676,875 FEMA grant funded with 25% or \$225,615 City match funded by IFA)

GRANT FUNDED Bear Creek Dam Spillway Pre-design - \$140,000

The second phase of the spillway study will eventually result in meeting a requirement of the Oregon State Dam Safety Program that requires our High Hazard Dam to have the capability of passing a probable maximum flood event over the dam without causing damage to the dam and without reducing the dam's seismic stability.

**Funding source for the above project: Oregon Department of Water Resources*

GRANT FUNDED Irving Avenue (20th - 28th St.) Waterline Resiliency Project - \$1,894,662

This project will upgrade 2,800 LF of old 6-inch cast-iron water pipe to new resilient 12" HDPE pipe from 20th Street to 28th Street along Irving Ave. and will provide a critical alternate route for over a mile of the City's 21-inch transmission main that connects Reservoirs 2 and 3 through several landslide-susceptible areas. The existing pipe was installed in 1928 and 1970 and is aligned through several mapped landslide areas.

**Funding source for the above project: Congressional Directed Spending*

GRANT/LOAN FUNDED Sewer Lift Stations Rehabilitation Project - \$3,670,000

The City has three sewage lift stations that convey sewage around Astoria, starting on the Young's Bay side of town and heading to the wastewater treatment plant on the east side. Built in the early 1970s, these lift stations are in dire need of an overhaul, with breakdowns occurring periodically and costly repairs burdening our budget.

For the design phase, DEQ awarded a \$185,880 grant through their Overflow Sewer & Stormwater program and a loan of \$119,920 with 50% forgiveness (grant) through their Clean Water State Revolving Fund (CWSRF). For the construction phase, DEQ awarded a loan for \$3,370,000 and half of the loan (\$1,685,000) amount is forgivable loan (grant).

**Funding source for the above project: Department of Environmental Quality (DEQ)*

PROJECT SHORT LIST FOR FUTURE GRANT/LOAN REQUESTS

AWAITING FUNDING OPPORTUNITY Water System Clearwell Project - \$6,000,000

This project would improve operations at the water treatment facility and provide updated laboratory facilities. A study was completed in 2018 identifying the project's purpose, scope, cost and benefits.

AWAITING FUNDING OPPORTUNITY Phase 5 CSO Program Projects - \$18,000,000

Grant funding for the remaining CSO program projects would reduce the length and amount of future CSO surcharge rates for the ratepayer. While this amount of grant funding is not highly likely, we will continue to look for funding opportunities.

AWAITING FUNDING OPPORTUNITY Irving at 33rd Street Bridge - \$14,200,000

Public Works staff has applied for funding for our last of nine City-owned bridges three times but have not been awarded funding for this existing timber bridge built in 1951. Past bridge funding from ODOT Local Bridge Program consisted of 90% grant and 10% City match. Staff will continue to submit an application to this program for each STIP cycle.

AWAITING FUNDING OPPORTUNITY Denver and Alameda Sidewalk Project - \$960,000

This project is a transportation safety project identified in the City Transportation System Plan (TSP) as a priority sidewalk project linking neighborhoods above Tapiola Park and the Astoria High School to the Hwy 202 sidewalk corridor.

AWAITING FUNDING OPPORTUNITY City of Astoria Little Bear Creek Waterline Replacement Project - \$3,400,000

This funding would allow the City to replace approximately 3,200 feet of our only drinking water transmission main providing water to the City of Astoria and multiple

outlying water districts. This waterline was built in 1963 and is a 21-inch reinforced concrete cylinder pipe. The alignment of the water transmission main traverses through undeveloped forest land and crosses multiple landslides along the way. At this location the waterline crosses a creek where it has become exposed and is vulnerable to damage. The water transmission main has experienced failure caused by land movement at this location.

AWAITING FUNDING OPPORTUNITY City of Astoria 16th & Jerome to 18th & Irving Waterline Resilience Project - \$1,000,000

This funding would allow the City to replace approximately 1,100 feet of our drinking water distribution main providing increased water volume to the central part of town and providing backup (resilience) for the 21-inch waterline from Reservoir 3 to Reservoir 2.

AWAITING FUNDING OPPORTUNITY City of Astoria Wastewater Collection System Assessment & Master Plan - \$1,500,000

This funding would allow the City to complete a much-needed assessment of our wastewater collection system and complete a Collections System Master Plan which the City has never had. The City sewer system is a combined sewer/storm system much of which is between 50-100+ years old. This work would allow the City to plan and implement repairs much more efficiently and focus on system repairs that will support future housing.

AWAITING FUNDING GRAND TOTAL: \$45,060,000