

Funded Projects

Overview

The Water Capital Improvement Program provides for the planning, engineering, and construction of improvements to the City's drinking water system. The program includes projects for installing new distribution system water lines, replacing existing water lines, expanding new groundwater sources, as well as proactive assessments of critical mains and safeguards for vital facilities such as seismic upgrades. These projects align with the latest Water System Master Plan, adopted by the City Council December 2022.

Highlights

Two of the primary goals of the Water Program are to:

1. Ensure that this community's drinking water supplies are protected, available, and affordable now and into the future.
2. Continually evaluate, and change when possible, business methods so they align with the City's sustainability directives.

In alignment with these goals, and after extensive analysis and community outreach, the City is developing its groundwater system, in partnership with Rockwood Water People's Utility District, to move off City of Portland-supplied water by 2026. Without this course of action, significant projected rate increases would be required, as the Portland Water Bureau will need to construct a new filtration facility to meet Federal regulations regarding the treatment of Bull Run water for microbial pathogens. The cost of Portland's treatment facility, estimated at \$1 billion, would be shared by all customers. Gresham's share of that total would exceed the amount required to alternately invest in and fully develop our own groundwater system. Thus, Gresham's move to water independence is expected to provide the following benefits relative to the alternative: 1) lower long-term water rates, 2) more consistent water quality, 3) better earthquake-resistant reservoirs and transmission mains and 3) more control of water policy decisions.

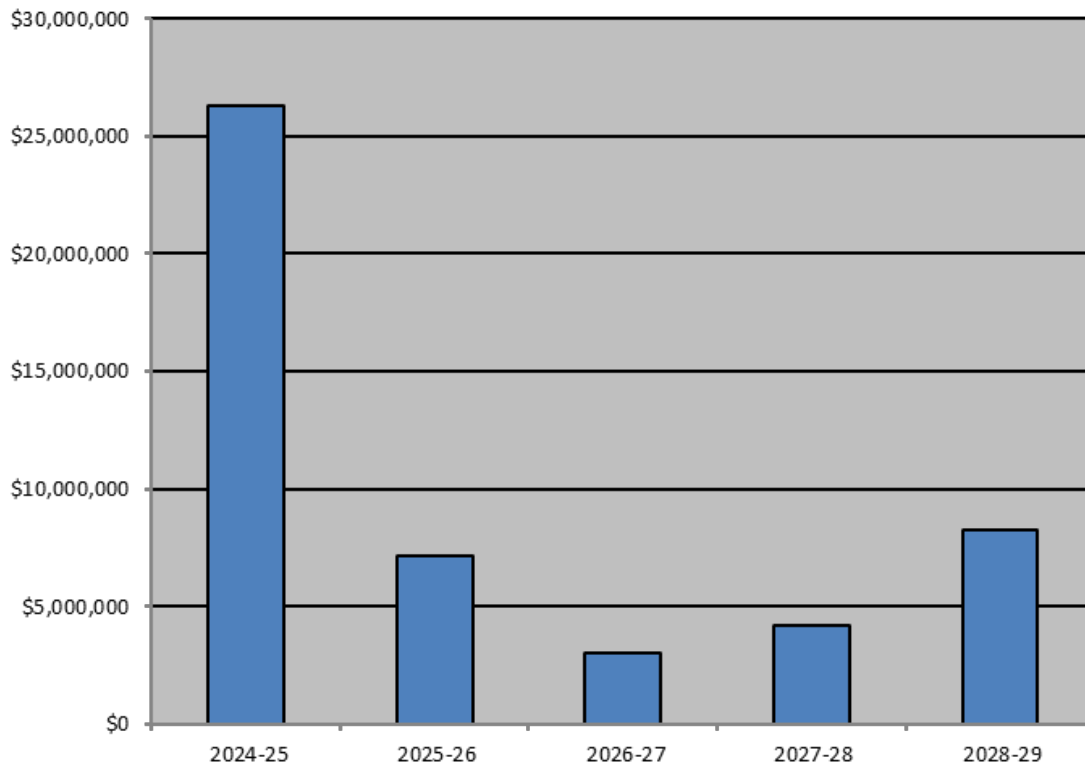
The following list of projects will construct Gresham's groundwater system:

1. Groundwater System Shared Infrastructure Reconciliation #CIPWT00035
2. Groundwater System - Water Supply #CIPWT00036
3. Groundwater System - Central Facilities #CIPWT00037
4. Groundwater System - Distribution Pipelines #CIPWT00038
5. Groundwater System - Implementation #CIPWT00047

In addition to the development of the groundwater system, the following list of CIP projects also support the goals of the Water Program:

1. Gabbert Seismic Piping #CIPWT00022
2. Regner Reservoir Seismic Upgrade #CIPWT00034
3. Water Meter Replacement Program #CIPWT00040

Water Expenditure Graph by Fiscal Year



Water Funded Summary								
Project	Project Name	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
CIPWT00001	Water System Improvements	187,794	55,000	60,000	60,000	100,000	100,000	562,794
CIPWT00002	Waterline Oversizing	317,107	25,000	25,000	25,000	50,000	50,000	492,107
CIPWT00003	Water System and Supply Studies	262,873	25,000	30,000	30,000	35,000	35,000	417,873
CIPWT00005	Minor Capital Maintenance Projects	1,363,455	540,000	250,000	250,000	260,000	260,000	2,923,455
CIPWT00017	Water Main Condition Assessment	254,123	250,000	260,000	280,000	300,000	320,000	1,664,123
CIPWT00019	NW Waterline Replacement Package Phase II	708,585	0	0	0	0	0	708,585
CIPWT00022	Gabbert Seismic Piping	843,845	0	0	0	0	0	843,845
CIPWT00023	Division Pump Station Seismic Upgrade	413,922	200,000	0	0	0	0	613,922
CIPWT00024	South Hills Seismic Pipeline	0	0	0	500,000	760,000	0	1,260,000
CIPWT00034	Regner Reservoir Seismic Upgrade	1,100,000	200,000	0	0	0	0	1,300,000
CIPWT00035	Groundwater System Shared Infrastructure Reconciliation	0	2,000,000	0	0	0	0	2,000,000
CIPWT00036	Groundwater System - Water Supply	26,411,749	7,000,000	5,107,515	0	0	0	38,519,264
CIPWT00037	Groundwater System - Central Facilities	21,720,508	15,500,000	0	0	0	0	37,220,508
CIPWT00038	Groundwater System - Distribution Pipelines	24,964,727	250,000	0	0	0	0	25,214,727
CIPWT00039	Pump Station Generator Improvements	0	0	165,600	386,400	0	0	552,000
CIPWT00040	Water Meter Replacement Program	1,000,000	0	250,000	500,000	500,000	1,000,000	3,250,000
CIPWT00041	Pipeline Renewal and Replacement Program	0	0	500,000	500,000	1,000,000	3,660,000	5,660,000
CIPWT00042	Fire Flow Improvements Program	0	0	500,000	500,000	1,000,000	2,000,000	4,000,000
CIPWT00047	Groundwater System - Implementation	250,000	250,000	0	0	0	0	500,000
CIPWT00048	Gabbert Pump Station Seismic Upgrade	0	0	0	0	175,000	525,000	700,000
CIPWT00050	Pleasant View Bridge Waterline	0	0	0	0	0	100,000	100,000
CIPWT00051	Salquist Pump Station Seismic Upgrade	0	0	0	0	0	200,000	200,000
Grand Total		79,798,688	26,295,000	7,148,115	3,031,400	4,180,000	8,250,000	128,703,203

Water Funded Summary by Resource								
Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total	
Debt-Operating	45,383,738	18,817,500	1,241,654	0	0	0	65,442,892	
Debt-SDC	11,704,614	4,907,500	355,032	25,000	50,000	50,000	17,092,146	
Grant	707,218	0	0	0	0	0	707,218	
IGA	16,968,521	1,500,000	3,535,829	0	0	0	22,004,350	
Operating	1,686,627	280,000	1,005,600	1,976,400	2,570,000	3,860,000	11,378,627	
Repair/Replacement Reserves	3,347,970	790,000	1,010,000	1,030,000	1,560,000	4,340,000	12,077,970	
Grand Total	79,798,688	26,295,000	7,148,115	3,031,400	4,180,000	8,250,000	128,703,203	

Water Funded Resource Detail											
Project	Project Name	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total		
CIPWT00001	Water System Improvements	Operating	187,794	55,000	60,000	60,000	100,000	100,000	562,794		
CIPWT00001 Total			187,794	55,000	60,000	60,000	100,000	100,000	562,794		
CIPWT00002	Waterline Oversizing	Debt-SDC	317,107	25,000	25,000	25,000	50,000	50,000	492,107		
CIPWT00002 Total			317,107	25,000	25,000	25,000	50,000	50,000	492,107		
CIPWT00003	Water System and Supply Studies	Operating	262,873	25,000	30,000	30,000	35,000	35,000	417,873		
CIPWT00003 Total			262,873	25,000	30,000	30,000	35,000	35,000	417,873		
CIPWT00005	Minor Capital Maintenance Projects	Repair/Replace	1,363,455	540,000	250,000	250,000	260,000	260,000	2,923,455		
CIPWT00005 Total			1,363,455	540,000	250,000	250,000	260,000	260,000	2,923,455		
CIPWT00017	Water Main Condition Assessment	Repair/Replace	254,123	250,000	260,000	280,000	300,000	320,000	1,664,123		
CIPWT00017 Total			254,123	250,000	260,000	280,000	300,000	320,000	1,664,123		
CIPWT00019	NW Waterline Replacement Package Phase II	Repair/Replace	708,585	0	0	0	0	0	708,585		
CIPWT00019 Total			708,585	0	0	0	0	0	708,585		
CIPWT00022	Gabbert Seismic Piping	Repair/Replace	843,845	0	0	0	0	0	843,845		
CIPWT00022 Total			843,845	0	0	0	0	0	843,845		
CIPWT00023	Division Pump Station Seismic Upgrade	Operating	235,960	200,000	0	0	0	0	435,960		
CIPWT00023 Total		Repair/Replace	177,962	0	0	0	0	0	177,962		
CIPWT00023 Total			413,922	200,000	0	0	0	0	613,922		
CIPWT00024	South Hills Seismic Pipeline	Operating	0	0	0	500,000	760,000	0	1,260,000		
CIPWT00024 Total			0	0	0	500,000	760,000	0	1,260,000		
CIPWT00034	Regner Reservoir Seismic Upgrade	Debt-Operating	392,782	200,000	0	0	0	0	592,782		
		Grant	707,218	0	0	0	0	0	707,218		
CIPWT00034 Total			1,100,000	200,000	0	0	0	0	1,300,000		
CIPWT00035	Groundwater System Shared Infrastructure Reconciliation	Debt-Operating	0	1,580,000	0	0	0	0	1,580,000		
		Debt-SDC	0	420,000	0	0	0	0	420,000		
CIPWT00035 Total			0	2,000,000	0	0	0	0	2,000,000		
CIPWT00036	Groundwater System - Water Supply	Debt-Operating	13,789,659	4,345,000	1,241,654	0	0	0	19,376,313		
		Debt-SDC	3,653,569	1,155,000	330,032	0	0	0	5,138,601		
		IGA	8,968,521	1,500,000	3,535,829	0	0	0	14,004,350		
CIPWT00036 Total			26,411,749	7,000,000	5,107,515	0	0	0	38,519,264		
CIPWT00037	Groundwater System - Central Facilities	Debt-Operating	17,549,163	12,245,000	0	0	0	0	29,794,163		
		Debt-SDC	4,171,345	3,255,000	0	0	0	0	7,426,345		
CIPWT00037 Total			21,720,508	15,500,000	0	0	0	0	37,220,508		
CIPWT00038	Groundwater System - Distribution Pipelines	Debt-Operating	13,402,134	197,500	0	0	0	0	13,599,634		
		Debt-SDC	3,562,593	52,500	0	0	0	0	3,615,093		
		IGA	8,000,000	0	0	0	0	0	8,000,000		
CIPWT00038 Total			24,964,727	250,000	0	0	0	0	25,214,727		
CIPWT00039	Pump Station Generator Improvements	Operating	0	0	165,600	386,400	0	0	552,000		
CIPWT00039 Total			0	0	165,600	386,400	0	0	552,000		
CIPWT00040	Water Meter Replacement Program	Operating	1,000,000	0	250,000	500,000	500,000	1,000,000	3,250,000		
CIPWT00040 Total			1,000,000	0	250,000	500,000	500,000	1,000,000	3,250,000		
CIPWT00041	Pipeline Renewal and Replacement Program	Repair/Replace	0	0	500,000	500,000	1,000,000	3,660,000	5,660,000		

Water Funded Resource Detail										
Project	Project Name	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total	
CIPWT00041 Total									5,660,000	
CIPWT00042	Fire Flow Improvements Program	Operating	0	0	500,000	500,000	1,000,000	3,660,000		
CIPWT00042 Total			0	0	500,000	500,000	1,000,000	2,000,000	4,000,000	
CIPWT00047	Groundwater System - Implementation	Debt-Operating	250,000	250,000	0	0	0	0	500,000	
CIPWT00047 Total			250,000	250,000	0	0	0	0	500,000	
CIPWT00048	Gabbert Pump Station Seismic Upgrade	Operating	0	0	0	0	175,000	525,000	700,000	
CIPWT00048 Total			0	0	0	0	175,000	525,000	700,000	
CIPWT00050	Pleasant View Bridge Waterline	Repair/Replace	0	0	0	0	0	100,000	100,000	
CIPWT00050 Total			0	0	0	0	0	100,000	100,000	
CIPWT00051	Salquist Pump Station Seismic Upgrade	Operating	0	0	0	0	0	200,000	200,000	
CIPWT00051 Total			0	0	0	0	0	200,000	200,000	
Grand Total			79,798,688	26,295,000	7,148,115	3,031,400	4,180,000	8,250,000	128,703,203	

FUNDED PROJECT
Water

CIPWT00001: Water System Improvements

Description: This project supports water system improvements such as waterline relocations and replacements, improvements necessary to retain water quality, improvements in support of other projects and facilities protection as needed. This project is located in various neighborhood districts within the City.

Justification: This project serves existing customers by protecting facilities during construction by others, and by maintaining service continuity, system reliability and fire protection. Some of these project costs are recoverable from and/or, reimbursable to, other public agencies, utilities or private developers. The desired outcome is to minimize service outages, protect the integrity of the system and maintain water quality. This project also replaces undersized facilities and relocates fire hydrants to meet ADA requirements as part of other small scale transportation related projects. (Existing / Future Customers Benefited:100% / 0%)

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Operating	187,794	55,000	60,000	60,000	100,000	100,000	562,794
Resources Total		187,794	55,000	60,000	60,000	100,000	100,000	562,794
Expenses	Design/Const Admin	43,400	12,700	13,800	13,800	23,000	23,000	129,700
	Construction	121,294	35,500	38,800	38,800	64,700	64,700	363,794
	Admin (14%)	23,100	6,800	7,400	7,400	12,300	12,300	69,300
Expenses Total		187,794	55,000	60,000	60,000	100,000	100,000	562,794

FUNDED PROJECT
Water

CIPWT00002: Waterline Oversizing

Description: This project represents City contributions to miscellaneous oversizing of waterlines designated in the Water Master Plan or system modeling. Gresham will consider cost reimbursements, as established by Council resolution, for waterline oversizing above 8" in size and updates for new hydrant installations, if required by the City. This project also supports construction of water facilities to provide additional fire flow to specific areas of the city. The project is located in various neighborhood districts. SDC project #OS-1.

Justification: These contributions allow the City to assist in or provide for the upgrade of inadequate facilities and improving fire flows that accommodate new development. Project funding will be drawn from the forward-looking SDCs collected from new service connections. (Existing / Future Customers Benefited: 0% / 100%)

Type of Project: Construction of facilities and utilities for growth.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Debt-SDC	317,107	25,000	25,000	25,000	50,000	50,000	492,107
Resources Total		317,107	25,000	25,000	25,000	50,000	50,000	492,107
Expenses	Design/Const Admin	20,000	4,000	4,000	4,000	8,000	8,000	48,000
	Construction	258,207	17,930	17,930	17,930	35,860	35,860	383,717
	Admin (14%)	38,900	3,070	3,070	3,070	6,140	6,140	60,390
Expenses Total		317,107	25,000	25,000	25,000	50,000	50,000	492,107

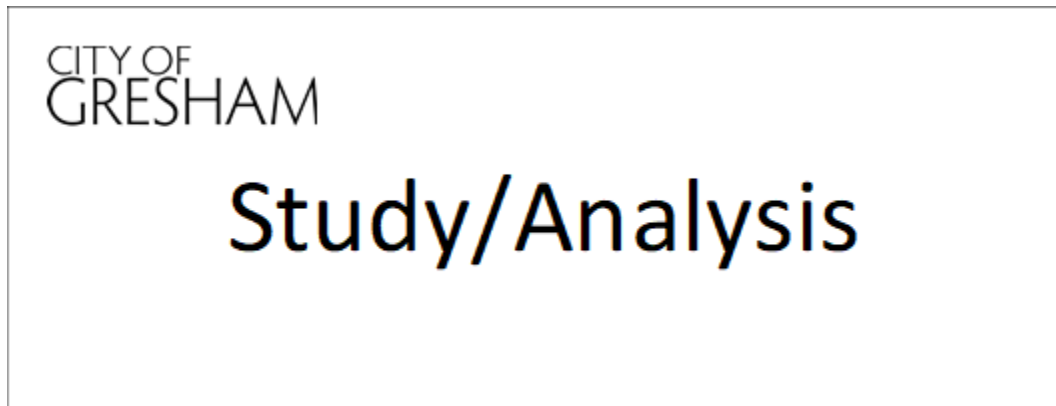
FUNDED PROJECT
Water

CIPWT00003: Water System and Supply Studies

Description: This project funds studies that evaluate water supply options for meeting current and future water system reliability and demands that help ensure the City's compliance with state and federal water system mandates. Included in this project is funding for utility supply investigations, studies of urban growth boundaries, water supply option evaluations, and water treatment and water quality evaluations and other studies related to water system operation . The study includes infrastructure, financing and programming elements: e.g., reservoir storage capacity, wholesale rates, wellhead protection and water conservation program requirements. The project supports water service levels and various neighborhood districts.

Justification: This project supports the evaluation of future impacts to Gresham from infrastructure improvements and expansions to the Portland Water Bureau source of supply or the improvements made to the groundwater source of supply as well as impacts due to state and federal drinking water regulations. (Existing / Future Customers Benefited: 100% / 0%)

Type of Project: Engineering studies related to City services.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Operating	262,873	25,000	30,000	30,000	35,000	35,000	417,873
Resources Total		262,873	25,000	30,000	30,000	35,000	35,000	417,873
Expenses	Design/Const Admin	230,573	21,900	26,300	26,300	30,700	30,700	366,473
	Admin (14%)	32,300	3,100	3,700	3,700	4,300	4,300	51,400
Expenses Total		262,873	25,000	30,000	30,000	35,000	35,000	417,873

FUNDED PROJECT
Water

CIPWT00005: Minor Capital Maintenance Projects

Description: This project constructs multiple small projects which are identified in Asset Management priorities or have been identified through the Operations or Engineering groups as needed. Projects will include replacement and/or rehabilitation of aging water system infrastructure which could include waterlines, pump stations, reservoirs, valves, hydrants and water meters. Larger projects have been separated into individual CIP projects for better tracking and management. Those projects may use funds from this CIP as needed as they serve the same purpose, except on a larger scale.

Justification: The Water System Asset Management strategy utilizes active and on-going condition assessment paired with component criticality to prioritize projects which are generally maintenance in nature and do not have an SDC component. The strategy examines system deficiencies within the existing water system. The projects identified with this strategic plan as well as other maintenance projects identified during the daily operation of the system will be funded through the Repair/Replacement Reserves fund. (Existing/Future Customer Benefit: 100%/ 0%).

Type of Project: Repair and rehabilitation of facilities and utilities to correct deficiencies.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Repair/Replacement Reserves	1,363,455	540,000	250,000	250,000	260,000	260,000	2,923,455
Resources Total		1,363,455	540,000	250,000	250,000	260,000	260,000	2,923,455
Expenses	Design/Const Admin	100,000	94,500	43,800	43,800	45,600	45,600	373,300
	Construction	1,096,055	379,200	175,500	175,500	182,500	182,500	2,191,255
	Admin (14%)	167,400	66,300	30,700	30,700	31,900	31,900	358,900
Expenses Total		1,363,455	540,000	250,000	250,000	260,000	260,000	2,923,455

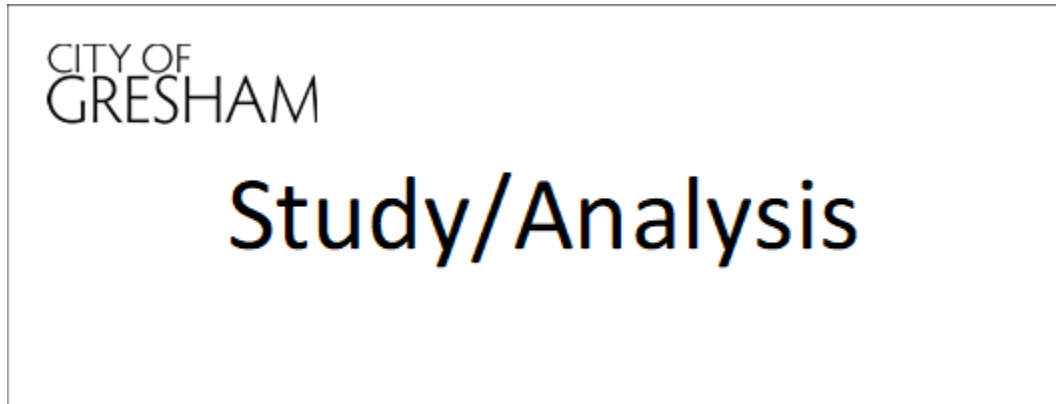
FUNDED PROJECT
Water

CIPWT00017: Water Main Condition Assessment

Description: This project continues the work done with the Condition Assessment of Critical Mains Phase I and II. Over the next 10 years the City will perform condition assessment on the water system distribution network installed before 1980. This data will be used to build the City's asset management data base and inform decision making regarding distribution system maintenance and replacement prioritization.

Justification: Assessing the condition of buried mains is critical to both understanding the useful life of the main as well as identifying potential failures that could be ready to surface. Critical mains will be identified by size, age, leak history and criticality. To determine condition, several methods may be employed dependent on pipe access, whether the pipe segment can be taken out of service and size and type of pipe material.

Type of Project: Study



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Repair/Replacement Reserves	254,123	250,000	260,000	280,000	300,000	320,000	1,664,123
Resources Total		254,123	250,000	260,000	280,000	300,000	320,000	1,664,123
Expenses	Design/Const Admin	222,923	219,300	228,100	245,600	263,200	280,700	1,459,823
	Admin (14%)	31,200	30,700	31,900	34,400	36,800	39,300	204,300
Expenses Total		254,123	250,000	260,000	280,000	300,000	320,000	1,664,123

FUNDED PROJECT
Water

CIPWT00019: NW Waterline Replacement Package Phase II

Description: This project replaces aging 6-inch cast iron with 8-inch ductile iron including services. These replacements are located in various neighborhood districts. The top three projects listed by priority include: NW Angeline south of Division and NW Norman Ave between 4th and 8th. The priority of the projects are subject to change.

Justification: The waterline projects replaces badly deteriorated waterlines with a high record of repairs and greatly improves system flows and reliability. (Existing/Future Customers Benefited: 100%/0%)

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Repair/Replacement Reserves	708,585	0	0	0	0	0	708,585
Resources Total		708,585	0	0	0	0	0	708,585
Expenses	Design/Const Admin	15,000	0	0	0	0	0	15,000
	Construction	606,585	0	0	0	0	0	606,585
	Admin (14%)	87,000	0	0	0	0	0	87,000
Expenses Total		708,585	0	0	0	0	0	708,585

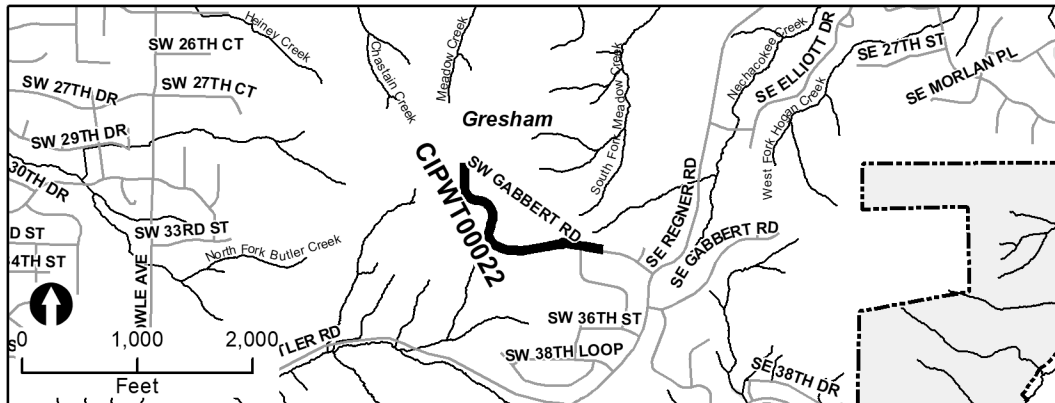
FUNDED PROJECT
Water

CIPWT00022: Gabbert Seismic Piping

Description: This project replaces existing non-restrained joint ductile iron piping with specially designed earthquake resistant ductile iron piping. Approximately 1,323 linear feet of 8-inch ductile iron pipe will be replaced with 8-inch earthquake resistant ductile iron piping. This project is located on Gabbert Hill on the South side of Gresham. The pipelines to be replaced run between the reservoir and the Gabbert pump station which supplies water to this area of the City.

Justification: In 2016 the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. This pipeline has been identified with a high risk of failure by the City's plan. replacement to help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Repair/Replacement Reserves	843,845	0	0	0	0	0	843,845
Resources Total		843,845	0	0	0	0	0	843,845
Expenses	Design/Const Admin	50,000	0	0	0	0	0	50,000
	Construction	690,245	0	0	0	0	0	690,245
	Admin (14%)	103,600	0	0	0	0	0	103,600
Expenses Total		843,845	0	0	0	0	0	843,845

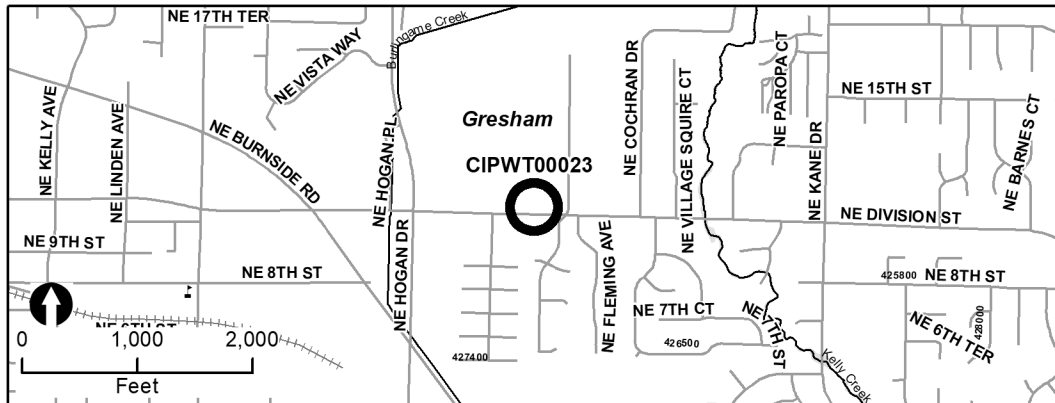
FUNDED PROJECT
Water

CIPWT00023: Division Pump Station Seismic Upgrade

Description: This project upgrades the seismic resilience of the Division Pump Station by replacing the building structure and other recommended improvements. This project was identified in the 2016 Water System Resilience Plan. The Resilience Plan provided a preliminary evaluation of the pump station and associated appurtenances. The scope of this project will include a detailed analysis, engineering design and construction.

Justification: In 2016, the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. This pump station has been identified with a high risk of failure by the City's plan. Improving the seismic resilience of the pump station will help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Operating	235,960	200,000	0	0	0	0	435,960
	Repair/Replacement Reserves	177,962	0	0	0	0	0	177,962
Resources Total		413,922	200,000	0	0	0	0	613,922
Expenses	Design/Const Admin	20,000	15,000	0	0	0	0	35,000
	Construction	343,122	160,400	0	0	0	0	503,522
	Admin (14%)	50,800	24,600	0	0	0	0	75,400
Expenses Total		413,922	200,000	0	0	0	0	613,922

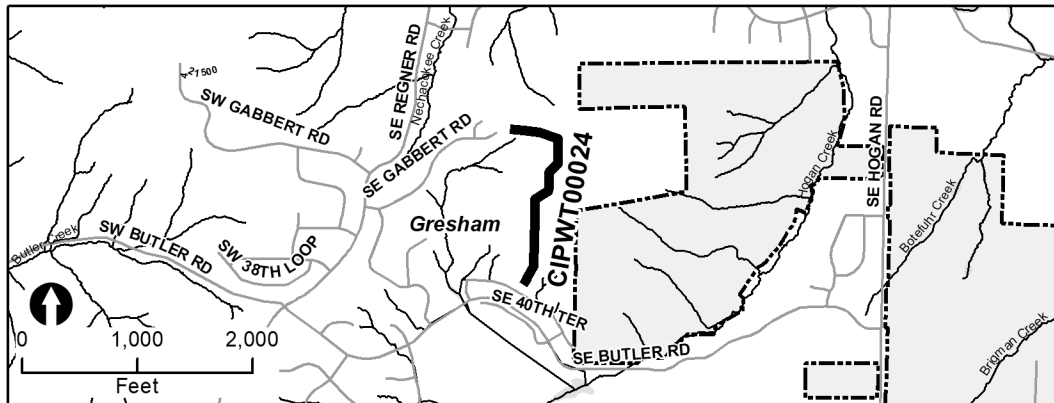
FUNDED PROJECT
Water

CIPWT00024: South Hills Seismic Pipeline

Description: This project replaces existing non-restrained joint ductile iron piping with specially designed earthquake resistant ductile iron piping. Approximately 1,258 linear feet of 16-inch ductile iron pipe will be replaced with 16-inch earthquake resistant ductile iron piping. This project is located on Hogan Butte on the East side of Gresham. The pipelines are the inlet / outlet piping of the South Hills reservoir along the steep slope areas of Hogan Butte which supplies water to the upper elevations of Southeast Gresham.

Justification: In 2016, the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. This pipeline has been identified with a high risk of failure by the City's plan. Replacement will help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Operating	0	0	0	500,000	760,000	0	1,260,000
Resources Total		0	0	0	500,000	760,000	0	1,260,000
Expenses	Design/Const Admin	0	0	0	60,000	111,000	0	171,000
	Construction	0	0	0	378,600	555,700	0	934,300
	Admin (14%)	0	0	0	61,400	93,300	0	154,700
Expenses Total		0	0	0	500,000	760,000	0	1,260,000

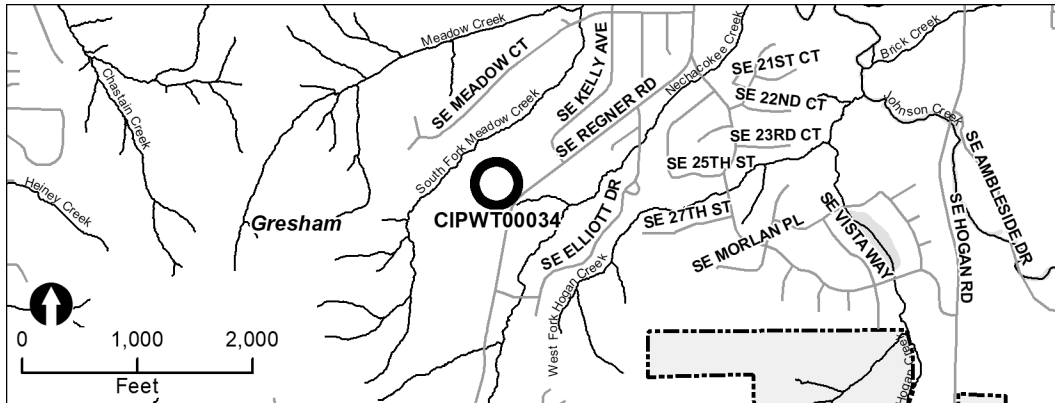
FUNDED PROJECT
Water

CIPWT00034: Regner Reservoir Seismic Upgrade

Description: The purpose of this project is to retrofit the existing Regner reservoir to comply with current seismic codes and meet the goals of the Seismic Resilience Plan; the improvements reduce the height of the water stored in the reservoir to prevent damage to the roof structure, reinforce the walls to resist damage in a significant seismic event, and modifies inlet/outlet piping for additional resilience. This project is located on Regner Road on the South side of Gresham. The project is contingent on the successful award of a FEMA Building Resilient Infrastructure and Communities (BRIC) grant.

Justification: In 2016 the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. Replacement of these pipeline is one of the highest priority projects identified by the City's plan in order to help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Construction



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Debt-Operating	392,782	200,000	0	0	0	0	592,782
	Grant	707,218	0	0	0	0	0	707,218
Resources Total		1,100,000	200,000	0	0	0	0	1,300,000
Expenses	Design/Const Admin	100,000	15,000	0	0	0	0	115,000
	Construction	864,900	160,400	0	0	0	0	1,025,300
	Admin (14%)	135,100	24,600	0	0	0	0	159,700
Expenses Total		1,100,000	200,000	0	0	0	0	1,300,000

FUNDED PROJECT
Water

CIPWT00035: Groundwater System Shared Infrastructure Reconciliation

Description: This project will fund payment to the Rockwood Water People's Utility District (RWPUD) for the City's share of existing facilities and land paid by RWPUD. While the City and RWPUD are sharing construction costs of several new facilities during project development, these previously constructed facilities and land acquisitions were not shared. SDC project #ST4.

Justification: The City of Gresham is developing additional groundwater resources in order to maintain adequate supply and achieve water independence. This work is being done in partnership and under an Intergovernmental Agreement (IGA) with the Rockwood Water People's Utility District (RWPUD). (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction of facilities and utilities for growth.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Debt-Operating	0	1,580,000	0	0	0	0	1,580,000
	Debt-SDC	0	420,000	0	0	0	0	420,000
Resources Total		0	2,000,000	0	0	0	0	2,000,000
Expenses	Other	0	1,754,400	0	0	0	0	1,754,400
	Admin (14%)	0	245,600	0	0	0	0	245,600
Expenses Total		0	2,000,000	0	0	0	0	2,000,000

FUNDED PROJECT
Water

CIPWT00036: Groundwater System – Water Supply

Description: This project will construct new production wells and the infrastructure to deliver the water to the City's distribution grid. The 5-year CIP includes well development at four discrete sites Cascade Well #6 (223rd), #7 (202nd), #9 (Kirk Park) and #10 (to be determined). This project may be expanded beyond the 5-year window to develop additional wells needed for supply. This includes projects 8.1.3, 8.5, 8.6, and 8.7 from the Groundwater Development Master Plan. SDC projects #ST2-A, B, C, and D.

Justification: The City of Gresham is developing additional groundwater resources in order to maintain adequate supply and achieve water independence. Currently the City has developed 5 MGD with Cascade Well #5. Per the recommendation of the Groundwater Development Master Plan the City is planning to develop 13 MGD by 2026 and 17 MGD by 2045. This work is being done in partnership and under an Intergovernmental Agreement (IGA) with the Rockwood Water People's Utility District (RWPUD). (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Development of Source.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Debt-Operating	13,789,659	4,345,000	1,241,654	0	0	0	19,376,313
	Debt-SDC	3,653,569	1,155,000	330,032	0	0	0	5,138,601
	IGA	8,968,521	1,500,000	3,535,829	0	0	0	14,004,350
Resources Total		26,411,749	7,000,000	5,107,515	0	0	0	38,519,264
Expenses	Design/Const Admin	2,750,000	1,250,000	750,000	0	0	0	4,750,000
	Construction	20,418,249	4,890,400	3,730,315	0	0	0	29,038,964
	Admin (14%)	3,243,500	859,600	627,200	0	0	0	4,730,300
Expenses Total		26,411,749	7,000,000	5,107,515	0	0	0	38,519,264

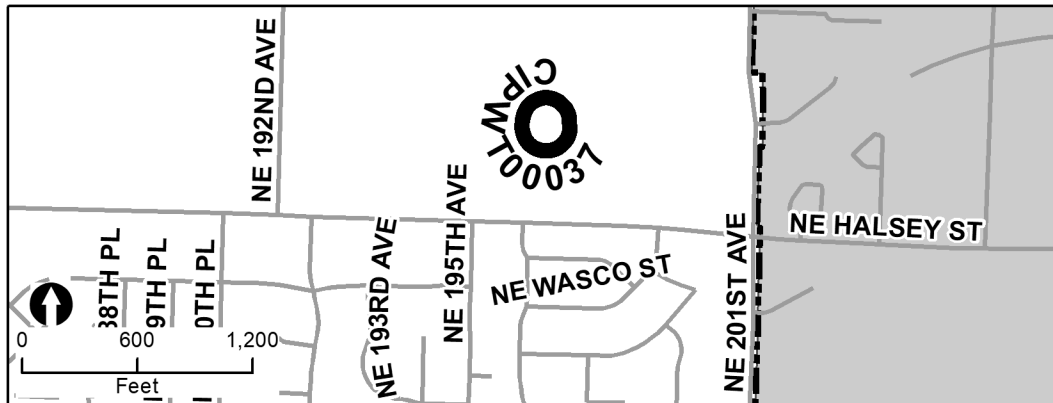
FUNDED PROJECT
Water

CIPWT00037: Groundwater System - Central Facilities

Description: This project will construct improvements at the jointly owned Cascade Water treatment and distribution facility located at the Rockwood Water People's Utility District offices on NE Halsey Street. This project includes construction of a water treatment plant, new and rehabilitated water storage facilities, and expanded water pumping facilities in support of the joint groundwater supply system. This includes projects 8.1.1, 8.1.2, and 8.4 from the Groundwater Development Master Plan. SDC projects #ST5-A, B, C, and D.

Justification: The City of Gresham is developing additional groundwater resources in order to maintain adequate supply and achieve water independence. Currently the City has developed 5 MGD with Cascade Well #5. Per the recommendation of the Groundwater Development Master Plan the City is planning to develop 13 MGD by 2026 and 17 MGD by 2045. This work is being done in partnership and under an Intergovernmental Agreement (IGA) with the Rockwood Water People's Utility District (RWPUD). (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Debt-Operating	17,549,163	12,245,000	0	0	0	0	29,794,163
	Debt-SDC	4,171,345	3,255,000	0	0	0	0	7,426,345
Resources Total		21,720,508	15,500,000	0	0	0	0	37,220,508
Expenses	Design/Const Admin	3,750,000	1,000,000	0	0	0	0	4,750,000
	Construction	15,303,108	12,596,500	0	0	0	0	27,899,608
	Admin (14%)	2,667,400	1,903,500	0	0	0	0	4,570,900
Expenses Total		21,720,508	15,500,000	0	0	0	0	37,220,508

FUNDED PROJECT
Water

CIPWT00038: Groundwater System - Distribution Pipelines

Description: This project will construct water system transmission and distribution piping and distribution facility improvements needed to connect the City and Rockwood Water People's Utility District water systems to the Cascade Water groundwater supply. This includes projects 8.2.2, 8.8, and 8.9 from the Groundwater Development Master Plan. SDC projects #ST6-A, B, and C.

Justification: The City of Gresham is developing additional groundwater resources in order to maintain adequate supply and achieve water independence. Currently the City has developed 5 MGD with Cascade Well #5. Per the recommendation of the Groundwater Development Master Plan the City is planning to develop 13 MGD by 2026 and 17 MGD by 2045. This work is being done in partnership and under an Intergovernmental Agreement (IGA) with the Rockwood Water People's Utility District (RWPUD). (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Debt-Operating	13,402,134	197,500	0	0	0	0	13,599,634
	Debt-SDC	3,562,593	52,500	0	0	0	0	3,615,093
	IGA	8,000,000	0	0	0	0	0	8,000,000
Resources Total		24,964,727	250,000	0	0	0	0	25,214,727
Expenses	Design/Const Admin	2,000,000	20,000	0	0	0	0	2,020,000
	Construction	19,898,927	199,300	0	0	0	0	20,098,227
	Admin (14%)	3,065,800	30,700	0	0	0	0	3,096,500
Expenses Total		24,964,727	250,000	0	0	0	0	25,214,727

FUNDED PROJECT
Water

CIPWT00039: Pump Station Generator Improvements

Description: This project installs on-site diesel or natural gas generators at the Salquist and Gabbert Pump Stations.

Justification: The project will construct new stand by power facilities at two critical pump stations in the City's water system. These facilities will prevent loss of service and system damage in the event of a grid power failure at these sites. (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction of facilities and utilities for growth.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Operating	0	0	165,600	386,400	0	0	552,000
Resources Total		0	0	165,600	386,400	0	0	552,000
Expenses	Design/Const Admin	0	0	50,000	50,000	0	0	100,000
	Construction	0	0	95,300	288,900	0	0	384,200
	Admin (14%)	0	0	20,300	47,500	0	0	67,800
Expenses Total		0	0	165,600	386,400	0	0	552,000

FUNDED PROJECT
Water

CIPWT00040: Water Meter Replacement Program

Description: This project sets up a long-term plan to repair and replace water meters and associated infrastructure for the Automated Meter Infrastructure system installed in 2010. The system requires on-going asset management, with the meters needing replacement every 10 years.

Justification: By proactively maintaining the City water meter infrastructure we are helping to insure the financial stability of the City's water utility. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and replacement.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Operating	1,000,000	0	250,000	500,000	500,000	1,000,000	3,250,000
Resources Total		1,000,000	0	250,000	500,000	500,000	1,000,000	3,250,000
Expenses	Design/Const Admin	600,000	0	150,000	300,000	300,000	600,000	1,950,000
	Construction	277,200	0	69,300	138,600	138,600	277,200	900,900
	Admin (14%)	122,800	0	30,700	61,400	61,400	122,800	399,100
Expenses Total		1,000,000	0	250,000	500,000	500,000	1,000,000	3,250,000

FUNDED PROJECT
Water

CIPWT00041: Pipeline Renewal and Replacement Program

Description: This project will create a regular pipeline renewal and replacement program in order to prevent pipe failures, which lead to expensive repairs, property damage, disruptions in service, public disturbances, water loss, and potential for water quality emergencies. Using sound asset management strategies including condition assessment and business risk analysis in conjunction with the 2021 Water Master Plan Update the water engineering staff will prioritize which pipelines to replace with this program. The budget reflects the first year of a long-term plan.

Justification: As distribution systems continue to age, the rate of failures will increase, so it is important to have a system for continuing pipe replacement to avoid exorbitant future expenses when older pipes start to fail more regularly. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Repair/Replacement Reserves	0	0	500,000	500,000	1,000,000	3,660,000	5,660,000
Resources Total		0	0	500,000	500,000	1,000,000	3,660,000	5,660,000
Expenses	Design/Const Admin	0	0	50,000	50,000	100,000	175,000	375,000
	Construction	0	0	388,600	388,600	777,200	3,035,500	4,589,900
	Admin (14%)	0	0	61,400	61,400	122,800	449,500	695,100
Expenses Total		0	0	500,000	500,000	1,000,000	3,660,000	5,660,000

FUNDED PROJECT
Water

CIPWT00042: Fire Flow Improvements Program

Description: This project will replace existing infrastructure to enhance fire flow capacity to meet current City standards. The budget reflects the first year of a long-term plan.

Justification: The Master Plan update completed in 2021 identified areas that currently do not meet City standards for fire flow capacity. (Existing / Future Customers Benefited: 75% / 25%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Operating	0	0	500,000	500,000	1,000,000	2,000,000	4,000,000
Resources Total		0	0	500,000	500,000	1,000,000	2,000,000	4,000,000
Expenses	Design/Const Admin	0	0	50,000	50,000	100,000	125,000	325,000
	Construction	0	0	388,600	388,600	777,200	1,629,400	3,183,800
	Admin (14%)	0	0	61,400	61,400	122,800	245,600	491,200
Expenses Total		0	0	500,000	500,000	1,000,000	2,000,000	4,000,000

FUNDED PROJECT
Water

CIPWT00047: Groundwater System - Implementation

Description: This project will design and construct water system facility improvements needed to implement the City and Rockwood Water People's Utility District connection to the Cascade Water groundwater supply. These facilities will be identified in cooperation with Water Operations including water reservoir mixers and disinfectant boosting equipment needed to maintain and operate the groundwater supply.

Justification: The City of Gresham is developing additional groundwater resources in order to maintain adequate supply and achieve water independence. Currently the City has developed 5 MGD with Cascade Well #5. Per the recommendation of the Groundwater Development Master Plan the City is planning to develop 13 MGD by 2026 and 17 MGD by 2045. This work is being done in partnership and under an Intergovernmental Agreement (IGA) with the Rockwood Water People's Utility District (RWPUD). (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Construction of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Debt-Operating	250,000	250,000	0	0	0	0	500,000
Resources Total		250,000	250,000	0	0	0	0	500,000
Expenses	Design/Const Admin	75,000	75,000	0	0	0	0	150,000
	Construction	144,300	144,300	0	0	0	0	288,600
	Admin (14%)	30,700	30,700	0	0	0	0	61,400
Expenses Total		250,000	250,000	0	0	0	0	500,000

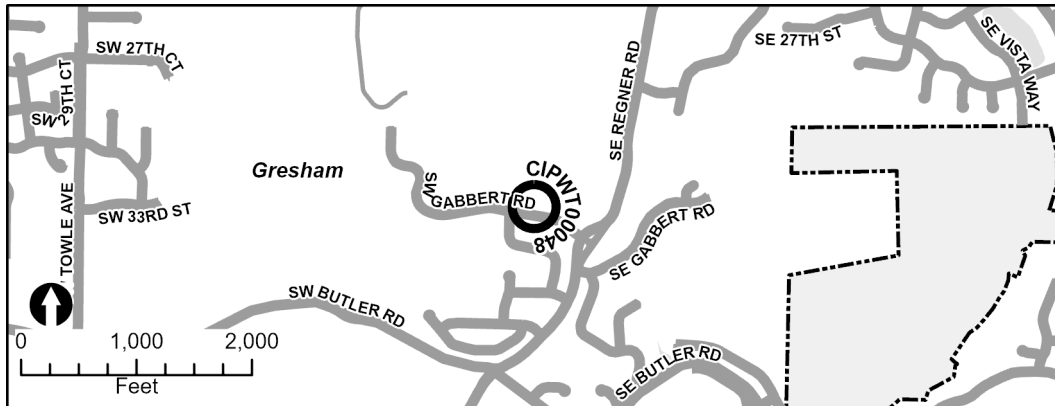
FUNDED PROJECT
Water

CIPWT00048: Gabbert Pump Station Seismic Upgrade

Description: This project upgrades the seismic resilience of the Gabbert Pump Station by retrofitting the existing building structure and other recommended improvements. This project was identified in the 2016 Water System Resilience Plan. The Resilience Plan provided a preliminary evaluation of the pump station and associated appurtenances. The scope of this project will include a detailed analysis, engineering design and construction. Additional funds will be required in future fiscal years.

Justification: In 2016, the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. This pump station has been identified with a high risk of failure by the City's plan. Improving the seismic resilience of the pump station will help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Operating	0	0	0	0	175,000	525,000	700,000
Resources Total		0	0	0	0	175,000	525,000	700,000
Expenses	Design/Const Admin	0	0	0	0	150,000	15,000	165,000
	Construction	0	0	0	0	3,500	445,500	449,000
	Admin (14%)	0	0	0	0	21,500	64,500	86,000
Expenses Total		0	0	0	0	175,000	525,000	700,000

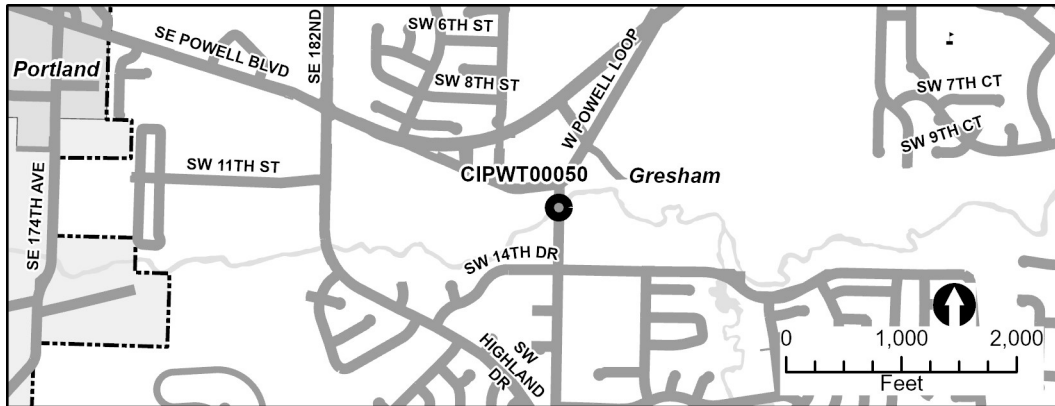
FUNDED PROJECT
Water

CIPWT00050: Pleasant View Bridge Waterline

Description: This project replaces the existing waterline on the Pleasant View Bridge in coordination with the anticipated Transportation bridge replacement project. The scope of this project will include a detailed analysis, engineering design and construction. Additional funds will be required in future fiscal years.

Justification: Coordination with Transportation system improvements. The project improves the seismic resilience of the water distribution system and will help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Repair/Replacement Reserves	0	0	0	0	0	100,000	100,000
Resources Total		0	0	0	0	0	100,000	100,000
Expenses	Design/Const Admin	0	0	0	0	0	50,000	50,000
	Construction	0	0	0	0	0	37,700	37,700
	Admin (14%)	0	0	0	0	0	12,300	12,300
Expenses Total		0	0	0	0	0	100,000	100,000

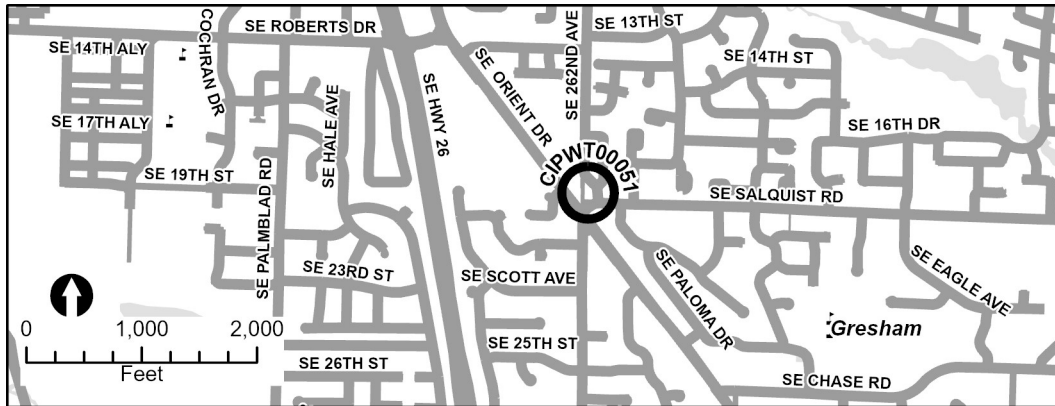
FUNDED PROJECT
Water

CIPWT00051: Salquist Pump Station Seismic Upgrade

Description: This project upgrades the seismic resilience of the Salquist Pump Station by retrofitting the existing building structure and other recommended improvements. This project was identified in the 2016 Water System Resilience Plan. The Resilience Plan provided a preliminary evaluation of the pump station and associated appurtenances. The scope of this project will include a detailed analysis, engineering design and construction. Additional funds will be required in future fiscal years.

Justification: In 2016, the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. This pump station has been identified with a high risk of failure by the City's plan. Improving the seismic resilience of the pump station will help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total
Resources	Operating	0	0	0	0	0	200,000	200,000
Resources Total		0	0	0	0	0	200,000	200,000
Expenses	Design/Const Admin	0	0	0	0	0	50,000	50,000
	Construction	0	0	0	0	0	125,400	125,400
	Admin (14%)	0	0	0	0	0	24,600	24,600
Expenses Total		0	0	0	0	0	200,000	200,000

Water Unfunded and Future Summary									
Project	Project Name	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	Total	
420550	NE 3rd Street (NE Hood to NE Cleveland)	0	0	0	0	0	0	640,000	
425500	Salquist Water Line - East	0	0	0	0	0	0	735,012	
428600	6-20 Year Fire Flow Improvements Program	0	0	0	0	0	0	41,359,494	
429900	SE Stark/Rene	0	0	0	0	0	0	708,130	
CIPW/T00009	Test Wells	0	0	0	0	0	0	513,000	
CIPW/T00011	Continuation of Operations Plan (COOP) Site	0	0	0	0	0	0	1,250,000	
CIPW/T00012	Walters Hill Reservoir and Pump Station Abandonment	0	0	0	0	0	0	500,000	
CIPW/T00015	Local Street Reconstruction Coordination	0	0	0	0	0	0	395,224	
CIPW/T00043	6-20 Year Pipeline Renewal and Replacement	0	0	0	0	0	0	73,246,000	
CIPW/T00044	6-20 Year Seismic Improvement Projects	0	0	0	0	0	0	5,631,000	
CIPW/T00045	6-20 Year Water Meter Replacement Program	0	0	0	0	0	0	9,183,000	
CIPW/T00046	2030 Water Master Plan Update	0	0	0	0	0	0	400,000	
CIPW/T00049	Wheeler to Intermediate PRV	0	0	0	0	0	0	478,991	
Grand Total		0	0	0	0	0	0	135,039,851	



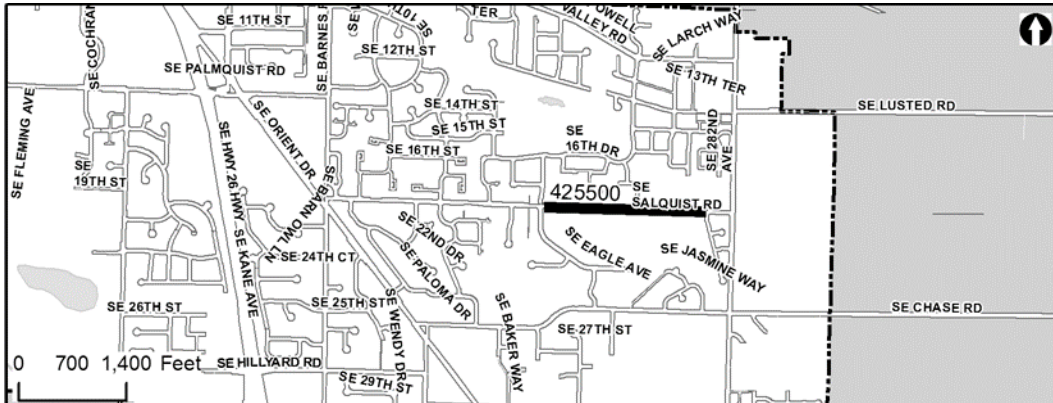
UNFUNDED and FUTURE PROJECT
Water

425500: Salquist Water Line - East

Description: This project installs 1500 LF of 12-inch D.I. pipe on SE Salquist Road between SE Glacier Ave. and SE Night Heron Way. This is the second phase of a comprehensive pipeline replacement project on SE Salquist Road between SE Orient Drive and SE 282nd Avenue. This project serves the Lusted Service Level and is located in the Kelly Creek Neighborhood District.

Justification: Much of the existing waterline on SE Salquist Road is currently undersized and unable to provide an adequate level of service for the new development that is occurring in this area. Additionally, much of the older sections of the pipeline have proven to require more maintenance and repair work in recent years. This project when completed will provide a critical link between the Salquist Pump Station and the Wheeler Reservoir (as well as the rest of the Lusted Service Level). To fully utilize the new groundwater supply resource, the City needs to have larger diameter distribution mains as a backbone to move water west to east from the Grant Butte Service Level (where the groundwater is introduced into the distribution system) to the Lusted Service Level through the Salquist Pump Station. (Existing/Future Customers Benefited 20% / 80%)

Type of Project: Construction of facilities and utilities to correct existing deficiencies and provide for future growth.



Estimated Dollars:

Funds	Description	Total
Resources	Debt-Operating	735,012
Resources Total		735,012
Expenses	Design/Const Admin	73,501
	Construction	581,123
	Admin (14%)	80,388
Expenses Total		735,012

UNFUNDED and FUTURE PROJECT
Water

428600: 6-20 Year Fire Flow Improvements Program

Description: This project will replace existing infrastructure to enhance fire flow capacity to meet current City standards. SDC project #FF1, FF2-22.

Justification: The Master Plan update completed in 2021 identified areas that currently do not meet City standards for fire flow capacity. (Existing / Future Customers Benefited: 75% / 25%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:	Funds	Description	Total
	Resources	Operating	30,192,430
		SDC	11,167,064
	Resources Total		41,359,494
	Expenses	Design/Const Admi	4,963,172
		Construction	31,317,109
		Admin (14%)	5,079,213
	Expenses Total		41,359,494

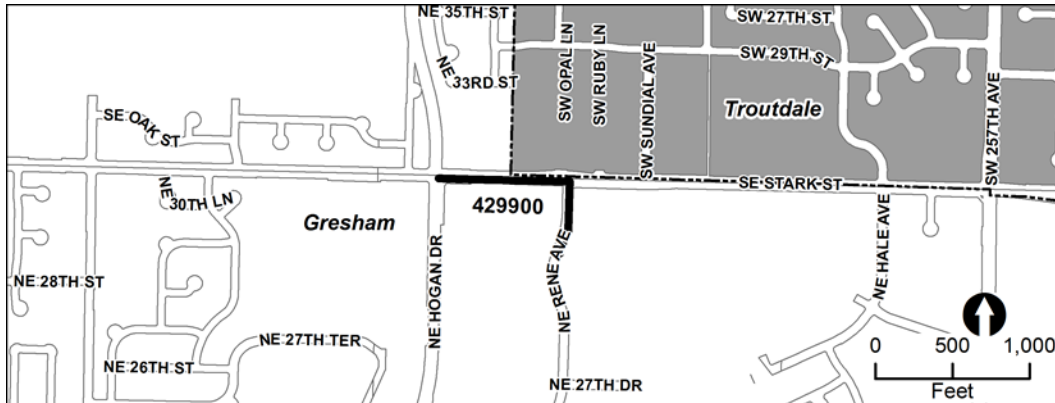
UNFUNDED and FUTURE PROJECT
Water

429900: SE Stark/Rene

Description: This project replaces approximately 1350 linear feet of 8- inch and 6-inch CI pipe with 12-inch DI and 8-inch DI pipe. The limits of this project are SE Stark St. between NE Hogan Dr. and NE Rene Ave, and NE Rene Avenue between SE Stark and approximately 475 feet south. This project was identified in the 2012 Master Plan.

Justification: This project will replace a section of water line on SE Stark Street and NE Rene Avenue Ave. that is undersized and does not provide adequate fire flow. Upsizing these lines will bring this section up to code and will meet current fire flow requirements.

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:

Funds	Description	Total
Resources	Repair/Replacement	708,130
Resources Total		708,130
Expenses	Design/Const Admin	116,842
	Construction	504,324
	Admin (14%)	86,964
Expenses Total		708,130

UNFUNDED and FUTURE PROJECT
Water

CIPWT00009: Test Wells

Description: This project will identify locations for potential well development and construct test wells. The information gathered from the test wells will be used to evaluate which wells would be most advantageous for the City to develop into production wells. SDC project #ST1.

Justification: The City of Gresham currently is allocated 18 MGD groundwater capacity under the Intergovernmental Agreement (IGA) with the Rockwood Water People's Utility District. This agreement was developed to maintain adequate source supply . Currently the City has developed 5 MGD of the allocated capacity through the construction of Cascade Well #5. (Existing / Future Customers Benefited: 79% / 21%).

Type of Project: Development of source water.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	405,270
	SDC	107,730
Resources Total		513,000
Expenses	Design/Const Admi	61,560
	Construction	388,444
	Admin (14%)	62,996
Expenses Total		513,000

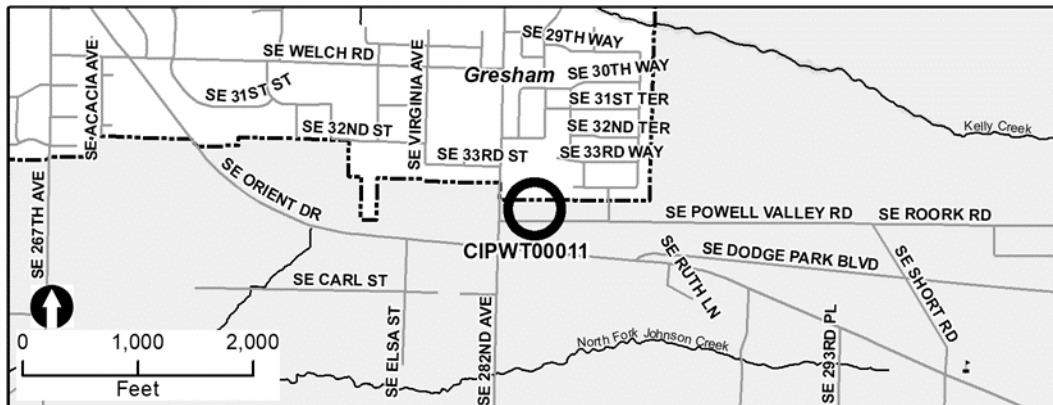
UNFUNDED and FUTURE PROJECT
Water

CIPWT00011: Continuation of Operations Plan (COOP) Site

Description: This project facilitates the repurposing of the existing Lusted Reservoir site. An IGA has been created to allow the neighboring Lusted Water District to utilize on site facilities while a sales agreement is negotiated. If the District does not purchase the property these funds may be needed to deconstruct the existing steel tank reservoir. If the site is sold these funds would go towards the purchase of other property for water operations.

Justification: The Lusted Reservoir and Pump Station have been decommissioned and are not useful for City water system operations. The site could be used during emergencies as identified in the Water Division's Continuation of Operations Plan (CoOP). Additionally, could be used for Water Division Emergency equipment such as generators.

Type of Project: Deconstruction.



Estimated Dollars:		Funds	Description	Total
		Resources	Other	1,250,000
		Resources Total		1,250,000
		Expenses	Design/Const Admi	125,000
			Construction	971,500
			Admin (14%)	153,500
		Expenses Total		1,250,000

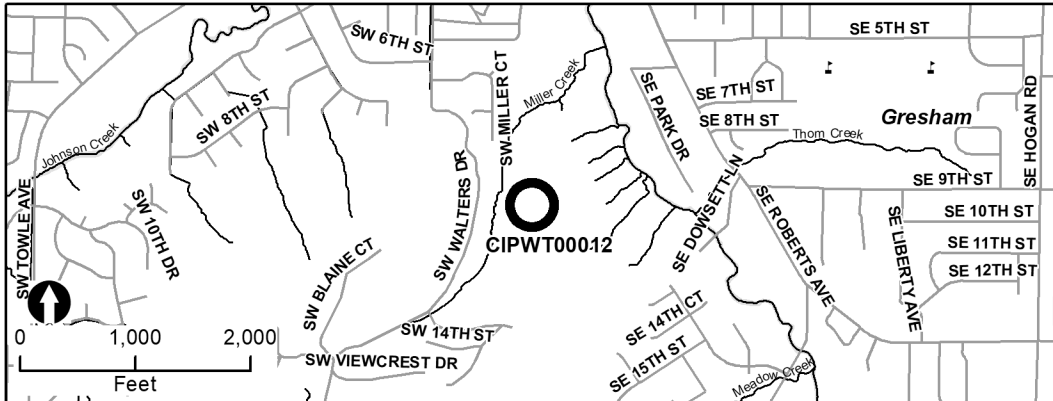
**UNFUNDED and FUTURE PROJECT
Water**

CIPWT00012: Walters Hill Reservoir and Pump Station Abandonment

Description: This project abandons both the Walters Hill Reservoir and Pump Station.

Justification: Both the Walters Hill Pump Station and Reservoir have been replaced by the Gabbert Pump Station and Gabbert Reservoir and have not been used for years. The reservoir is a partially buried concrete reservoir and is potentially a safety hazard for trespassers.

Type of Project: Construction.



Estimated Dollars:

Funds	Description	Total
Resources	Debt-Operating	500,000
Resources Total		500,000
Expenses	Design/Const Admin	138,900
	Construction	299,647
	Admin (14%)	61,453
Expenses Total		500,000

UNFUNDED and FUTURE PROJECT
Water

CIPWT00015: Local Street Reconstruction Coordination

Description: This project constructs the replacement and rehabilitation of the water system infrastructure in coordination with the Local Street Reconstruction Program (LSRP) (CIP #CIPTR00012) administered by the City Transportation Division.

Justification: The water system within the limits of the LSRP is being evaluated by the Water Division engineering staff. This project will allow the City to repair and replace water system components prior to street resurfacing. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:	Funds	Description	Total
	Resources	Repair/Replacemer	395,224
	Resources Total		395,224
	Expenses	Design/Const Admi	15,000
		Construction	331,724
		Admin (14%)	48,500
	Expenses Total		395,224

UNFUNDED and FUTURE PROJECT
Water

CIPWT00043: 6-20 Year Pipeline Renewal and Replacement

Description: This project will create a regular pipeline renewal and replacement program in order to prevent pipe failures, which lead to expensive repairs, property damage, disruptions in service, public disturbances, water loss, and potential for water quality emergencies. Using sound asset management strategies including condition assessment and business risk analysis in conjunction with the 2021 Water Master Plan Update the water engineering staff will prioritize which pipelines to replace with this program.

Justification: As distribution systems continue to age, the rate of failures will increase, so it is important to have a system for continuing pipe replacement to avoid exorbitant future expenses when older pipes start to fail more regularly. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and rehabilitation of facilities and utilities.



Estimated Dollars:	Funds	Description	Total
	Resources	Repair/Replacemer	73,246,000
	Resources Total		73,246,000
	Expenses	Design/Const Admi	10,254,400
		Construction	53,996,500
		Admin (14%)	8,995,100
	Expenses Total		73,246,000

UNFUNDED and FUTURE PROJECT
Water

CIPWT00044: 6-20 Year Seismic Improvement Projects

Description: This project constructs seismic resilience improvements identified in the Water Seismic Resilience Plan and Water Master Plan.

Justification: In 2016 the City completed a water system seismic resiliency study and prepared a plan consistent with the recommendation of the 2013 State of Oregon Resilience Plan. Replacement of these pipeline is one of the highest priority projects identified by the City's plan in order to help assure continued water system operation in the event of a significant earthquake. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Construction.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	5,631,000
Resources Total		5,631,000
Expenses	Design/Const Admi	788,300
	Construction	4,151,200
	Admin (14%)	691,500
Expenses Total		5,631,000

UNFUNDED and FUTURE PROJECT
Water

CIPWT00045: 6-20 Year Water Meter Replacement Program

Description: This project sets up a long-term plan to repair and replace water meters and associated infrastructure for the Automated Meter Infrastructure system installed in 2010. The system requires on-going asset management, with the meters needing replacement every 10 years.

Justification: By proactively maintaining the City water meter infrastructure we are helping to insure the financial stability of the City's water utility. (Existing / Future Customers Benefited: 100% / 0%).

Type of Project: Repair and replacement.



Estimated Dollars:	Funds	Description	Total
	Resources	Operating	9,183,000
	Resources Total		9,183,000
	Expenses	Design/Const Admi	5,509,800
		Construction	2,545,500
		Admin (14%)	1,127,700
	Expenses Total		9,183,000

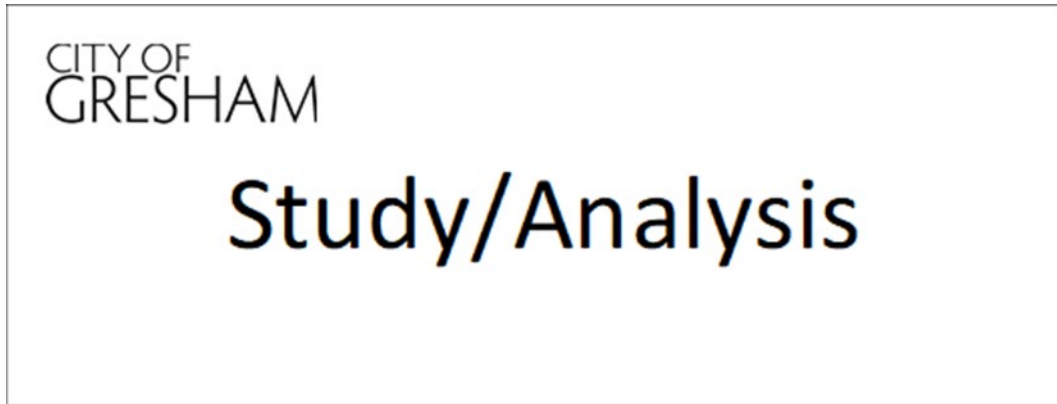
UNFUNDED and FUTURE PROJECT
Water

CIPWT00046: 2030 Water Master Plan Update

Description: This Water System Master Plan must be updated to meet State requirements and to account for changes in projected development, economic conditions, water system priorities and condition of existing assets. The project benefits all water service levels and neighborhood districts. This project will provide for updates about every ten years.

Justification: This study will provide the necessary and effective direction to our long-range Water Capital Improvement Program, future growth, and financial requirements.
(Existing/Future Customer Benefit: 50% / 50%).

Type of Project: Engineering study related to city services.



Estimated Dollars:	Funds	Description	Total
	Resources	Operating	400,000
	Resources Total		400,000
	Expenses	Design/Const Admi	350,900
		Admin (14%)	49,100
	Expenses Total		400,000

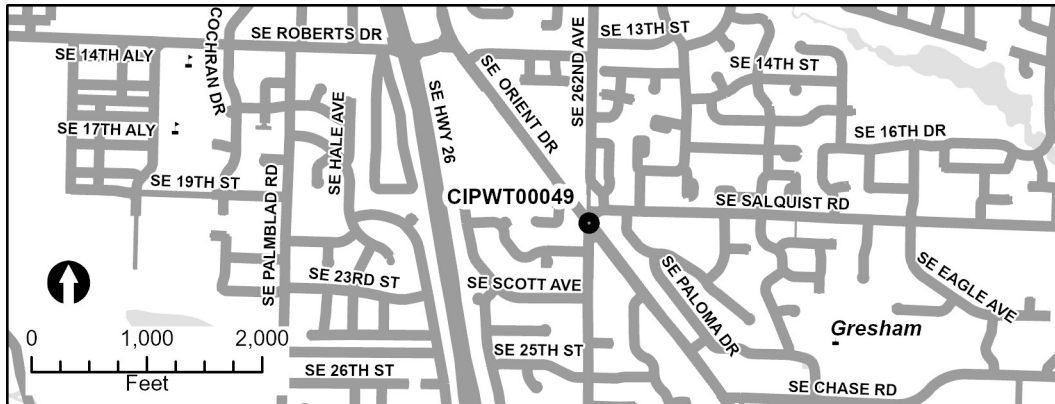
UNFUNDED and FUTURE PROJECT
Water

CIPWT00049: Wheeler to Intermediate PRV

Description: This project installs a new pressure reducing valve, at SE Orient Dr and SE Barnes Rd, to interconnect the Wheeler and Intermediate pressure zones, allowing the flow of water from the Wheeler zone to Intermediate zone in case of emergency. SDC Project #SF5.

Justification: This project will construct the new Wheeler to Intermediate PRV to provide expanded water system capacity to serve customers in the Intermediate Service Level. (Existing / Future Customers Benefited: 0% / 100%).

Type of Project: Construction of facilities and utilities for growth.



Estimated Dollars:

Funds	Description	Total
Resources	SDC	478,991
Resources Total		478,991
Expenses	Design/Const Admi	51,300
	Construction	368,901
	Admin (14%)	58,790
Expenses Total		478,991

