

Stormwater (Watershed)

Funded Projects

Overview

The Stormwater (Watershed) Capital Program is designed to promote and maintain the health and safety of the environment for all Gresham citizens through effective stormwater and natural resource management including planning, designing, constructing, and maintaining all elements of the public stormwater system. The 5-year CIP program is a vital component to meeting these stated goals, along with meeting the requirements of our regulators and expectations of our residents. Through careful planning and capital project implementation, most historical challenges associated with flood management are now being addressed. While additional flood control projects are still needed, the CIP efforts show an increase in improvements in the areas of surface and ground water quality, stream health, natural resources, and maintenance of existing infrastructure. Properly functioning stormwater infrastructure and healthy streams and wetlands are an important part of the economic engine for sustaining and improving the livability and quality of life in Gresham.

One of the business strategies being employed by Watershed is the application of a comprehensive asset management system beginning with the Operations program, and ultimately applied to the Capital Improvement Program.

Drivers to the CIP program include:

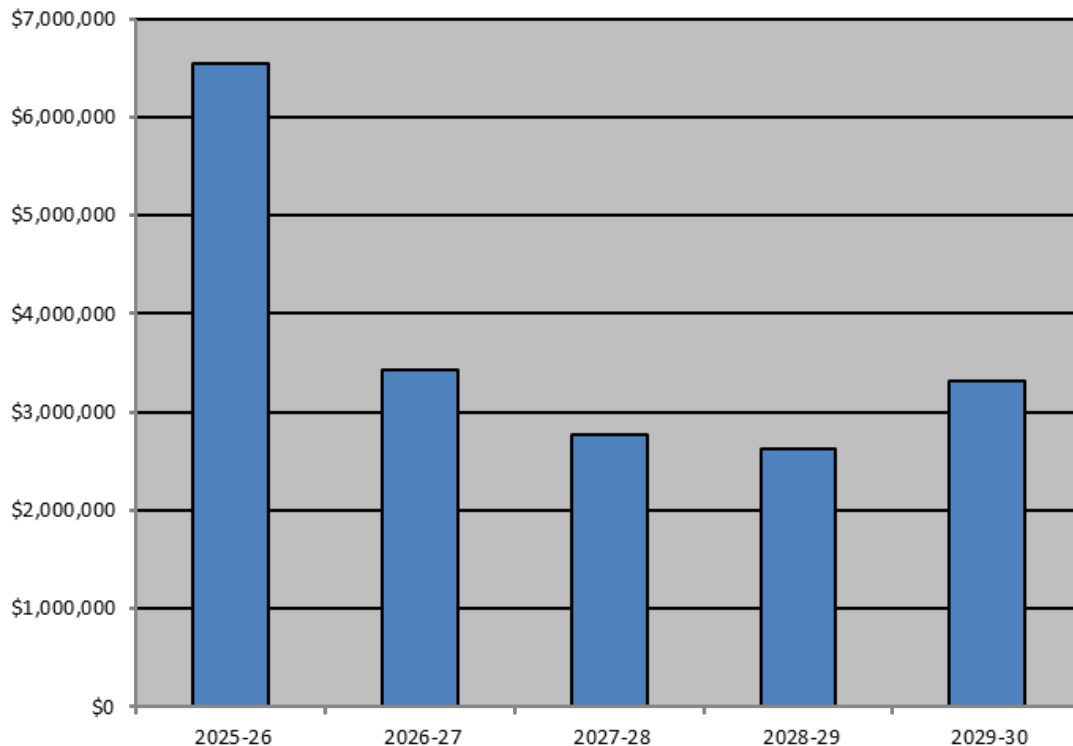
1. Projects directly related to meeting State and Federal storm water discharge permit requirements to protect surface and groundwater resources
2. Projects needed to reduce flooding (future build out) and 'prevent' property damage
3. Projects needed to improve the quality of our waterways

Highlights

Significant projects during the coming fiscal years include:

1. Localized Drainage Improvements project #CIPSW00001 will focus on drainage improvements at the Bull Run Condos, Halsey, and SE Cleveland/SE 25th;
2. Rehab & Repair of Pipe System project #CIPSW00004 will focus on culvert improvements near the intersection of SW Towle Ave./SW 33rd and SW Lovhar Dr./SW Walters Dr.;
3. Stormwater Facility Improvements project #CIPSW00005 will focus on the Fairview Creek regional water quality facility retrofit near the intersection of SE Division and NW Birdsedale Ave.;
4. Fairview Creek Basin Central Core Trunk Improvement project #CIPSW00016 will continue concept design work;
5. Water Quality Tree Wells project #CIPSW00023 will replace sidewalk with street trees to treat and infiltrate stormwater, while providing shade along Powell Blvd.

Stormwater (Watershed Management) Expenditure Graph by Fiscal Year



Stormwater Funded Summary									
Project	Project Name	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total	
CIPSW000001	Localized Drainage Improvements	739,014	250,000	365,000	118,000	125,000	140,000	1,737,014	
CIPSW000002	Low Impact Dev Practices Retrofit Program	569,609	100,000	450,000	450,000	300,000	450,000	2,319,609	
CIPSW000003	Stream and Slope Improvements	975,263	200,000	200,000	200,000	200,000	300,000	2,075,263	
CIPSW000004	Rehab & Repair of Pipe System	2,065,508	1,163,700	1,000,000	1,000,000	1,000,000	1,300,000	7,529,208	
CIPSW000005	Stormwater Facility Improvements	1,194,255	620,000	260,000	100,000	100,000	120,000	2,394,255	
CIPSW000006	Riparian & Wetland Improvement Projects	1,191,948	475,000	150,000	150,000	150,000	170,000	2,286,948	
CIPSW000007	Fujitsu Ponds Restoration	0	248,000	0	0	0	0	248,000	
CIPSW000008	Segment 2, Fairview Creek Basin Central Core Trunk Impr	406,904	0	0	0	0	0	406,904	
CIPSW000009	Infrastructure Capacity Improvements	352,376	450,000	350,000	100,000	100,000	120,000	1,472,376	
CIPSW000015	Water Quality and Infiltration Facilities	497,111	100,000	100,000	100,000	100,000	120,000	1,017,111	
CIPSW000016	Fairview Creek Basin Central Core Trunk Improvement	2,324,282	0	0	0	0	0	2,324,282	
CIPSW000021	Environmental Risk Prevention	397,048	150,000	150,000	150,000	150,000	200,000	1,197,048	
CIPSW000023	Water Quality Tree Wells	150,000	1,090,000	0	0	0	0	1,240,000	
CIPSW000024	Outfall Repair and Rehab	400,000	400,000	400,000	400,000	400,000	400,000	2,400,000	
CIPSW000046	Civic Drive: NW 15th to Sleret	0	1,300,000	0	0	0	0	1,300,000	
Grand Total		11,263,318	6,546,700	3,425,000	2,768,000	2,625,000	3,320,000	29,948,018	

Stormwater Funded Summary by Resource							
Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Other	188,996	0	0	0	0	0	188,996
Debt-Operating	150,000	340,000	0	0	0	0	490,000
Dev/SDC Credit	406,904	1,300,000	0	0	0	0	1,706,904
Grant	0	700,000	0	0	0	0	700,000
Operating	4,929,874	1,945,500	1,662,500	1,334,000	1,187,500	1,445,000	12,504,374
Repair/Replacement Reserves	4,508,882	2,036,200	1,587,500	1,384,000	1,387,500	1,815,000	12,719,082
SDC	1,078,662	225,000	175,000	50,000	50,000	60,000	1,638,662
Grand Total	11,263,318	6,546,700	3,425,000	2,768,000	2,625,000	3,320,000	29,948,018

Stormwater Funded Resource Detail											
Project	Project Name	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total		
CIPSW00001	Localized Drainage Improvements	Operating	369,507	125,000	182,500	59,000	62,500	70,000	868,507		
		Repair/Replace	369,507	125,000	182,500	59,000	62,500	70,000	868,507		
CIPSW00001 Total			739,014	250,000	365,000	118,000	125,000	140,000	1,737,014		
CIPSW00002	Low Impact Dev Practices Retrofit Program	Operating	569,609	100,000	450,000	450,000	300,000	450,000	2,319,609		
CIPSW00002 Total			569,609	100,000	450,000	450,000	300,000	450,000	2,319,609		
CIPSW00003	Stream and Slope Improvements	Repair/Replace	975,263	200,000	200,000	200,000	200,000	300,000	2,075,263		
CIPSW00003 Total			975,263	200,000	200,000	200,000	200,000	300,000	2,075,263		
CIPSW00004	Rehab & Repair of Pipe System	Repair/Replace	2,065,508	1,163,700	1,000,000	1,000,000	1,000,000	1,300,000	7,529,208		
CIPSW00004 Total			2,065,508	1,163,700	1,000,000	1,000,000	1,000,000	1,300,000	7,529,208		
CIPSW00005	Stormwater Facility Improvements	Operating	532,630	310,000	130,000	50,000	50,000	60,000	1,132,630		
		Other	128,996	0	0	0	0	0	128,996		
		Repair/Replace	532,629	310,000	130,000	50,000	50,000	60,000	1,132,629		
CIPSW00005 Total			1,194,255	620,000	260,000	100,000	100,000	120,000	2,394,255		
CIPSW00006	Riparian & Wetland Improvement Projects	Operating	565,973	237,500	75,000	75,000	75,000	85,000	1,113,473		
		Other	60,000	0	0	0	0	0	60,000		
		Repair/Replace	565,975	237,500	75,000	75,000	75,000	85,000	1,113,475		
CIPSW00006 Total			1,191,948	475,000	150,000	150,000	150,000	170,000	2,286,948		
CIPSW00007	Fujitsu Ponds Restoration	Operating	0	248,000	0	0	0	0	248,000		
CIPSW00007 Total			0	248,000	0	0	0	0	248,000		
CIPSW00008	Segment 2, Fairview Creek Basin Central Core Trunk Im Dev/SDC Credit		406,904	0	0	0	0	0	406,904		
CIPSW00008 Total			406,904	0	0	0	0	0	406,904		
CIPSW00009	Infrastructure Capacity Improvements	Operating	203,426	225,000	175,000	50,000	50,000	60,000	763,426		
		SDC	148,950	225,000	175,000	50,000	50,000	60,000	708,950		
CIPSW00009 Total			352,376	450,000	350,000	100,000	100,000	120,000	1,472,376		
CIPSW00015	Water Quality and Infiltration Facilities	Operating	497,111	100,000	100,000	100,000	100,000	120,000	1,017,111		
CIPSW00015 Total			497,111	100,000	100,000	100,000	100,000	120,000	1,017,111		
CIPSW00016	Fairview Creek Basin Central Core Trunk Improvement	Operating	1,394,570	0	0	0	0	0	1,394,570		
		SDC	929,712	0	0	0	0	0	929,712		
CIPSW00016 Total			2,324,282	0	0	0	0	0	2,324,282		
CIPSW00021	Environmental Risk Prevention	Operating	397,048	150,000	150,000	150,000	150,000	200,000	1,197,048		
CIPSW00021 Total			397,048	150,000	150,000	150,000	150,000	200,000	1,197,048		
CIPSW00023	Water Quality Tree Wells	Debt-Operating	150,000	340,000	0	0	0	0	490,000		
		Grant	0	700,000	0	0	0	0	700,000		
		Operating	0	50,000	0	0	0	0	50,000		
CIPSW00023 Total			150,000	1,090,000	0	0	0	0	1,240,000		
CIPSW00024	Outfall Repair and Rehab	Operating	400,000	400,000	400,000	400,000	400,000	400,000	2,400,000		
CIPSW00024 Total			400,000	400,000	400,000	400,000	400,000	400,000	2,400,000		
CIPSW00046	Civic Drive: NW 15th to Sleret	Dev/SDC Credit	0	1,300,000	0	0	0	0	1,300,000		
CIPSW00046 Total			0	1,300,000	0	0	0	0	1,300,000		
Grand Total			11,263,318	6,546,700	3,425,000	2,768,000	2,625,000	3,320,000	29,948,018		



FUNDED PROJECT
Stormwater

CIPSW00001: Localized Drainage Improvements

Description: This project repairs the storm drainage system to correct surface drainage problems identified by staff and the public. These repairs are located in various neighborhood districts. The projects in this CIP include Bull Run Condos Inlets, Halsey Improvements, and SE Cleveland/SE 25th. The priority of the projects are subject to change.

Justification: The project corrects drainage problems that result in damage to private properties or that cause localized flooding.

Type of project: Design, repair and rehabilitation of facilities and utilities, and to correct deficiencies.



Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Operating	369,507	125,000	182,500	59,000	62,500	70,000	868,507
	Repair/Replacement Reserves	369,507	125,000	182,500	59,000	62,500	70,000	868,507
Resources Total		739,014	250,000	365,000	118,000	125,000	140,000	1,737,014
Expenses	Design/Const Admin	103,500	29,900	43,700	14,200	15,000	16,800	223,100
	Construction	544,714	189,400	276,500	89,300	94,600	106,000	1,300,514
	Admin (14%)	90,800	30,700	44,800	14,500	15,400	17,200	213,400
Expenses Total		739,014	250,000	365,000	118,000	125,000	140,000	1,737,014

FUNDED PROJECT
Stormwater

CIPSW00002: Low Impact Development Practices Retrofit Program

Description: This project replaces conventional systems by integrating Low Impact Development practices such as rain gardens, stormwater planters, swales, drywells, porous pavement & pavers. The project is located in various neighborhood districts and may also be used to leverage stormwater revenue by partnering with private developers, public entities and other programs to apply LID retrofits more cost effectively. In FY 25-26, the Watershed Division will start working on a LID Retrofit Plan to look at potential use of City-owned parcels as candidates for water quality retrofits.

Justification: This project addresses water quality and water quantity issues relating to the City's NPDES Permit that requires a reduction in pollutants over time. Efforts are achieved through implementing sustainable best management practices that mimic natural hydrologic functions throughout each major creek basin.

Type of project: Design and construction of facilities and utilities to correct deficiencies and improve water quality and quantity.



Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Operating	569,609	100,000	450,000	450,000	300,000	450,000	2,319,609
Resources Total		569,609	100,000	450,000	450,000	300,000	450,000	2,319,609
Expenses	Design/Const Admin	57,000	12,000	53,800	53,800	26,700	53,800	257,100
	Construction	437,609	70,700	335,900	335,900	231,500	335,900	1,747,509
	Property Acq	5,000	5,000	5,000	5,000	5,000	5,000	30,000
	Admin (14%)	70,000	12,300	55,300	55,300	36,800	55,300	285,000
Expenses Total		569,609	100,000	450,000	450,000	300,000	450,000	2,319,609

FUNDED PROJECT
Stormwater

CIPSW00003: Stream and Slope Improvements

Description: This project improves stream function and bank stability for the purposes of water quality, sensitive species habitat, critical riparian functions, and natural hazard mitigation. Stabilization of slope and bank problem areas will be done based on prioritization of known problems (as identified and ranked in the Natural Resources Master Plan) and will also assess newly discovered areas of instability. Major goals in addressing slope stabilization issues include minimizing potential for larger slope failures and associated property loss, infrastructure damage, and clean up needs. Efforts include field surveys, environmental site assessments, encumbrance research, data analysis, mapping, modeling, and hydrologic investigations, design, acquisition of easement rights or full ownership of undeveloped lands, permitting, construction, and meeting related mitigation requirements. The project addresses needs in various neighborhoods, and significantly contributes to City compliance with state and federal water quality, aquatic habitat, and critical habitat protection, and mitigates risks to public safety and infrastructure investments.

Justification: Gresham's creeks serve as major components of the public stormwater conveyance system for the City. Risk of streambank and slope failures has increased due to ongoing stream bed, streambank, and upslope erosion caused by stormwater discharges, flashy stream flows and hydromodification, and climate change impacts to waterways and adjacent forests. Slope and bank failures adversely impact adjacent structures and infrastructure, and harm aquatic life. Projects are prioritized for implementation based on likelihood of and consequences of significant slope movement with the goal to address issues prior to failure when the mitigation is much less costly.

Type of project: Design and Construction of streambank/slope stabilization projects.



Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Repair/Replacement Reserves	975,263	200,000	200,000	200,000	200,000	300,000	2,075,263
Resources Total		975,263	200,000	200,000	200,000	200,000	300,000	2,075,263
Expenses	Design/Const Admin	97,500	22,000	22,000	22,000	22,000	33,000	218,500
	Construction	752,963	148,400	148,400	148,400	148,400	225,200	1,571,763
	Property Acq	5,000	5,000	5,000	5,000	5,000	5,000	30,000
	Admin (14%)	119,800	24,600	24,600	24,600	24,600	36,800	255,000
Expenses Total		975,263	200,000	200,000	200,000	200,000	300,000	2,075,263

FUNDED PROJECT
Stormwater

CIPSW00004: Rehab & Repair of Pipe System

Description: This project provides for analysis, design and re-construction of stormwater facilities that are in poor physical condition and in need of rehabilitation. The projects involve repairs and new construction to replace deficient stormwater systems and trench settlement. The specific projects will be identified using industry standard asset management practices, which will include analyzing system condition data using a Computerized Maintenance Management System. Projects are located in various neighborhood districts. The top projects for FY 25-26 include improvements to the Towle Rd Culvert, Lovhar (Miller Creek) Culvert, and additional root intrusion repairs.

Justification: This project will ensure that our existing stormwater infrastructure remains useful and effective.

Type of project: Design and construction to repair and rehabilitate facilities.



Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Repair/Replacement Reserves	2,065,508	1,163,700	1,000,000	1,000,000	1,000,000	1,300,000	7,529,208
Resources Total		2,065,508	1,163,700	1,000,000	1,000,000	1,000,000	1,300,000	7,529,208
Expenses	Design/Const Admin	150,000	84,000	72,200	72,200	72,200	93,900	544,500
	Construction	1,661,808	936,800	805,000	805,000	805,000	1,046,500	6,060,108
	Admin (14%)	253,700	142,900	122,800	122,800	122,800	159,600	924,600
Expenses Total		2,065,508	1,163,700	1,000,000	1,000,000	1,000,000	1,300,000	7,529,208

FUNDED PROJECT
Stormwater

CIPSW00005: Stormwater Facility Improvements

Description: This project corrects deficient or damaged stormwater facilities and associated discharge receiving areas and evaluates existing local ineffective stormwater systems for improvements in design, slope protection, maintenance access, increase of flood storage, added water quality benefits & riparian planting. Fees collected in-lieu of improvements will contribute to funding construction. The top projects for FY 25-26 include improvements to the Old Towne Estates Stormwater Facility, the Fairview Creek Regional Water Quality Facility, and 16th and Ironwood swale, conveyance, and access improvements.

Justification: This project will bring facilities up to current or operational standards, improve immediately adjacent lands significantly impacted by past high velocity or flow discharges, improve access to infrastructure, and assist the City in meeting state and federal permit requirements for water quality improvement, pollutant removal, and annual reporting.

Type of project: Design and construction of facilities to correct existing system deficiencies and improve water quantity and quality.



Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Other	128,996	0	0	0	0	0	128,996
	Operating	532,630	310,000	130,000	50,000	50,000	60,000	1,132,630
	Repair/Replacement Reserves	532,629	310,000	130,000	50,000	50,000	60,000	1,132,629
Resources Total		1,194,255	620,000	260,000	100,000	100,000	120,000	2,394,255
Expenses	Design/Const Admin	100,000	90,500	38,000	14,600	14,600	17,500	275,200
	Construction	947,555	453,400	190,100	73,200	73,200	87,800	1,825,255
	Admin (14%)	146,700	76,100	31,900	12,200	12,200	14,700	293,800
Expenses Total		1,194,255	620,000	260,000	100,000	100,000	120,000	2,394,255

FUNDED PROJECT
Stormwater

CIPSW00006: Riparian and Wetland Improvement Projects

Description: This project addresses riparian, floodplain, and wetland improvements needed to support local water quality, riparian tree cover and forest health, habitat, and watershed hydrology. Project also supports City response to regulatory requirements for protected areas, including identification of wetland and habitat mitigation opportunities for City infrastructure improvement and repair projects. Identified opportunities are scoped and prioritized through the City's Natural Resources Master Plan (NRMP), which is in progress. Efforts include field surveys, environmental site assessments, encumbrance research, data collection and analysis, master planning, mapping, modeling, and hydrologic investigations, design, acquisition of easement rights or full ownership of undeveloped lands, permitting, construction, and meeting related mitigation requirements. The top projects for FY 25-26 include undocumented fill removal in Johnson Creek watershed, completing the updated NRMP, and 16th and Ironwood Drainage Improvements.

Justification: Assists the City in meeting state and federal water quality, stream shade, habitat, flood control, and mitigation requirements through projects that improve the condition and function of the City's natural resources. This includes increasing riparian tree canopy to meet state-required stream temperature standards, increasing the climate resiliency of city forest resources, and improving habitat conditions for protected species. To the extent possible, City investment in these projects is leveraged by grants and extensive engagement of non-profits, residents, school groups, and businesses in volunteer stewardship at project sites.

Type of project: Design and construction of riparian/wetland improvements.



Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Other	60,000	0	0	0	0	0	60,000
	Operating	565,973	237,500	75,000	75,000	75,000	85,000	1,113,473
	Repair/Replacement Reserves	565,975	237,500	75,000	75,000	75,000	85,000	1,113,475
Resources Total		1,191,948	475,000	150,000	150,000	150,000	170,000	2,286,948
Expenses	Property Acq	5,000	5,000	5,000	5,000	5,000	5,000	30,000
	Other	1,040,548	411,700	126,600	126,600	126,600	144,100	1,976,148
	Admin (14%)	146,400	58,300	18,400	18,400	18,400	20,900	280,800
Expenses Total		1,191,948	475,000	150,000	150,000	150,000	170,000	2,286,948

CIPSW00007: Fujitsu Ponds Restoration

Justification: The larger project will provide multiple benefits, including economic development, increased flood storage, water quality and temperature improvements, habitat diversity, and reduction in ongoing vandalism and fire hazards (by altering lands now used for camping, dumping, etc.). The initial phase reflected here will remedy and reduce localized street flooding and include data collection and design studies needed to inform the larger project.

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Operating	0	248,000	0	0	0	0	248,000
Resources Total		0	248,000	0	0	0	0	248,000
Expenses	Design/Const Admin	0	30,800	0	0	0	0	30,800
	Construction	0	161,700	0	0	0	0	161,700
	Property Acq	0	25,000	0	0	0	0	25,000
	Admin (14%)	0	30,500	0	0	0	0	30,500
Expenses Total		0	248,000	0	0	0	0	248,000

FUNDED PROJECT
Stormwater

CIPSW00008: Segment 2, Fairview Creek Basin Central Core Trunk Improvement

Description: The City-wide Stormwater Master Plan (June 30, 2022) recommends installation of 322 LF of 84-inch HDPE pipe to bypass a portion of an existing 66-inch concrete pipe that crosses a currently vacant property. The project is identified as project FC-3f-C in the master plan. This project is part of drainage improvements in the Civic Neighborhood. SDC project #FC-10.

Justification: Eliminates localized street and property flooding and limits surcharging to acceptable levels.

Type of project: Design and construction of facilities to meet growth and to correct deficiencies.



Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Dev/SDC Credit	406,904	0	0	0	0	0	406,904
Resources Total		406,904	0	0	0	0	0	406,904
Expenses	Construct/Reimburse	406,904	0	0	0	0	0	406,904
Expenses Total		406,904	0	0	0	0	0	406,904

FUNDED PROJECT
Stormwater

CIPSW00009: Infrastructure Capacity Improvements

Description: This program systematically addresses capacity deficiencies in existing pipes and culverts. Projects are identified through multiple channels including existing and future master plans, local drainage improvement reports, SDC Methodology project list, and field data. This project may also leverage stormwater revenue by partnering with private developers, public entities and other programs resulting in the construction of stormwater improvements in a more cost-effective manner. This project may provide systems development charge credits to developers for certain identified improvements. Projects are prioritized based on criticality. During FY 25-26, pre-design for a stormwater conveyance and treatment facility improvements at the Fairview Creek and Stark Street (SDC project #FC-14, FC-15) will be completed with design following in FY 26-27. Preliminary design of a channel replacement SE of Division and Cleveland (SDC project #KC-2) will also begin in FY 25-26. Other projects currently planned under this CIP would not be SDC eligible, but are lower cost.

Justification: This project increases conveyance capacity to alleviate potential flooding issues.

Type of Project: Design and construction of facilities to meet growth and to correct deficiencies.



Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Operating	203,426	225,000	175,000	50,000	50,000	60,000	763,426
	SDC	148,950	225,000	175,000	50,000	50,000	60,000	708,950
Resources Total		352,376	450,000	350,000	100,000	100,000	120,000	1,472,376
Expenses	Design/Const Admin	74,937	70,700	54,300	15,000	15,000	18,600	248,537
	Construction	234,139	324,000	252,700	72,700	72,700	86,700	1,042,939
	Admin (14%)	43,300	55,300	43,000	12,300	12,300	14,700	180,900
Expenses Total		352,376	450,000	350,000	100,000	100,000	120,000	1,472,376

FUNDED PROJECT
Stormwater

CIPSW00015: Water Quality and Infiltration Facilities

Description: This project addresses capacity-related flooding in arterial roadways in Gresham by identifying, designing, and constructing upstream water quality and infiltration facilities. Specific sites will be identified in part by acquisition potential and infiltration rates. Sub-silt injection mechanisms may also be considered.

Justification: This project represents one element of a multi-faceted approach to reduce arterial flooding by introducing treatment and infiltrating runoff, thereby minimizing necessary downstream infrastructure improvements.

Type of Project: Design and construction of facilities to improve water quantity and quality, and to correct deficiencies. Easement/property acquisition may be required.



Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Operating	497,111	100,000	100,000	100,000	100,000	120,000	1,017,111
Resources Total		497,111	100,000	100,000	100,000	100,000	120,000	1,017,111
Expenses	Design/Const Admin	90,000	15,000	15,000	15,000	15,000	18,000	168,000
	Construction	331,011	67,700	67,700	67,700	67,700	82,300	684,111
	Property Acq	15,000	5,000	5,000	5,000	5,000	5,000	40,000
	Admin (14%)	61,100	12,300	12,300	12,300	12,300	14,700	125,000
Expenses Total		497,111	100,000	100,000	100,000	100,000	120,000	1,017,111

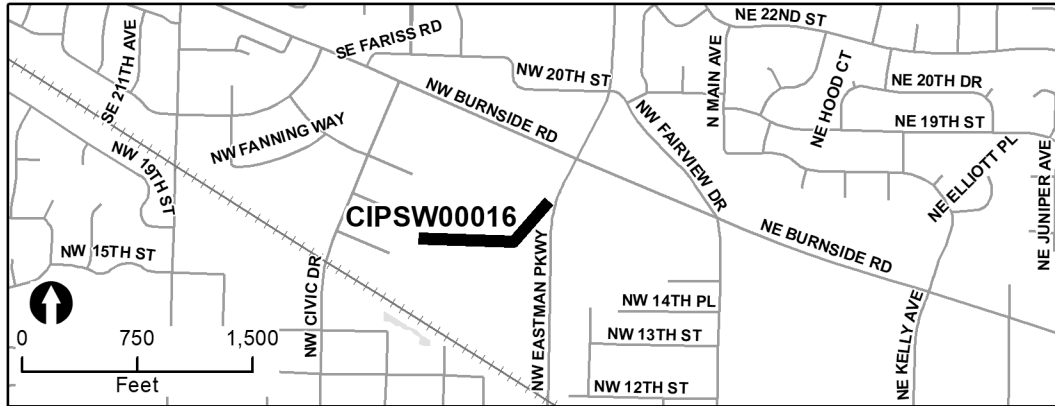
FUNDED PROJECT
Stormwater

CIPSW00016: Fairview Creek Basin Central Core Trunk Improvement

Description: The City-wide Stormwater Master Plan (June 30, 2022) recommends replacing 1,630 LF of existing 54-inch pipe from MH 3253-F-026 to MH 3252-F-006 with 84-inch pipe. Replacement and upsizing of this existing pipe helps to reduce predicted surface flooding. Adjustment to pipe alignment in the former K-Mart parking lot will facilitate re-development opportunities for this property. The project is identified as project FC-3g-C in the master plan. This project is part of drainage improvements in the Civic Neighborhood. SDC projects #FC-12 and #FC-13. Preliminary analysis of detailed system is underway.

Justification: Eliminates localized street and property flooding and limits surcharging to acceptable levels.

Type of Project: Design and construction of facilities to meet growth and to correct deficiencies.



Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Operating	1,394,570	0	0	0	0	0	1,394,570
	SDC	929,712	0	0	0	0	0	929,712
Resources Total		2,324,282	0	0	0	0	0	2,324,282
Expenses	Design/Const Admin	209,203	0	0	0	0	0	209,203
	Construction	1,799,679	0	0	0	0	0	1,799,679
	Property Acq	30,000	0	0	0	0	0	30,000
	Admin (14%)	285,400	0	0	0	0	0	285,400
Expenses Total		2,324,282	0	0	0	0	0	2,324,282

FUNDED PROJECT
Stormwater

CIPSW00021: Environmental Risk Prevention

Description: This effort will reduce risks to both natural resources and public infrastructure and is focused on areas where naturally steep topography and drainageways have been significantly altered from past development impacts from housing, roads, culverts, impoundments, and buried linear pipes. In high slope situations, signs of potential stream failures were assessed where such failures would undermine critical public infrastructure and related public services. Projects implemented under this CIP are selected both in response to significant site changes reported after high rain events, and by stream bed analysis to evaluate and estimate risk of potential failure. These projects are necessary to prevent exponential increase in future damage and related repair costs, and will be pursued in cooperation with the other departments whose infrastructure is contributing to the stream damage or is at risk of exposure or undermining. Example projects include provision of flow detention and stream restoration related to relic high velocity stormwater outfalls, and sewer crossings on steep drainage channels where the impact of the sewer pipe becoming exposed is potentially very high. The top areas for FY 25-26 include assessment of 17th and Paloma Outfall, SE Florence Ct Outfall, and Hunter's Highland Area Outfall.

Justification: Projects are implemented to respond to or prevent system failures where infrastructure and waterway conflicts pose potential for regulatory violations, public health risks, or new or exacerbated infrastructure damage. This is intended to be a multidisciplinary CIP with contributions by multiple divisions within the City, as the causes of degradation and responsibility to mitigate risk crosses other disciplines.

Type of Project: Preliminary assessment and/or design, and construction of facilities and restoration of natural high gradient waterways to correct historic deficiencies.

CITY OF
GRESHAM

City Wide Project

Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Operating	397,048	150,000	150,000	150,000	150,000	200,000	1,197,048
Resources Total		397,048	150,000	150,000	150,000	150,000	200,000	1,197,048
Expenses	Design/Const Admin	97,448	40,000	40,000	40,000	40,000	53,300	310,748
	Construction	250,800	91,600	91,600	91,600	91,600	122,100	739,300
	Admin (14%)	48,800	18,400	18,400	18,400	18,400	24,600	147,000
Expenses Total		397,048	150,000	150,000	150,000	150,000	200,000	1,197,048

FUNDED PROJECT
Stormwater

CIPSW00024: Outfall Repair and Rehab

Description: This project repairs drainage outfalls that are identified by staff and the public as deficient and/or at risk for destabilizing slopes. These repairs are located in various neighborhood districts. The projects in this CIP listed by priority include Hogan Drive Outfall Extension and Hunters Highland Area Discharge Repairs. The priority of the projects are subject to change.

Justification: This project corrects issues and hazards related to deficient outfalls that have resulted in destabilization of and damage to private properties, or that cause localized flooding.

Type of Project: Repair and rehabilitation of outfalls, and to correct deficiencies.

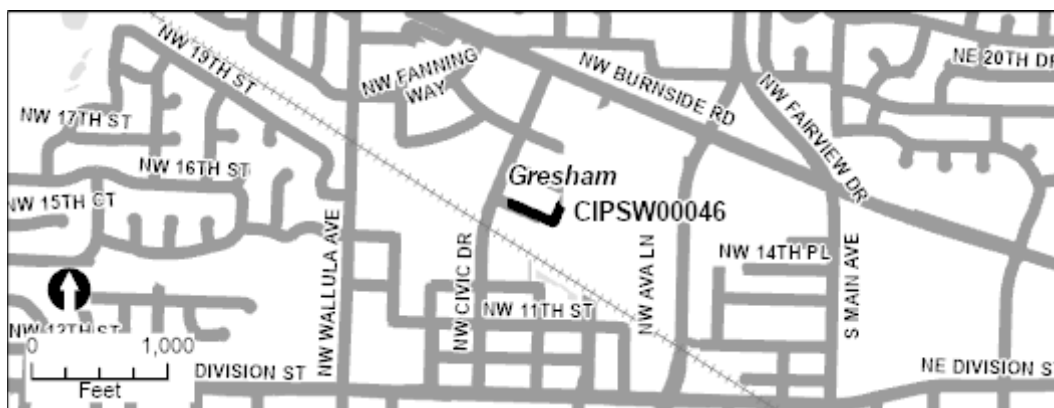


Estimated Dollars:

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Operating	400,000	400,000	400,000	400,000	400,000	400,000	2,400,000
Resources Total		400,000	400,000	400,000	400,000	400,000	400,000	2,400,000
Expenses	Design/Const Admin	48,000	48,000	48,000	48,000	48,000	48,000	288,000
	Construction	302,900	302,900	302,900	302,900	302,900	302,900	1,817,400
	Admin (14%)	49,100	49,100	49,100	49,100	49,100	49,100	294,600
Expenses Total		400,000	400,000	400,000	400,000	400,000	400,000	2,400,000

CIPSW00046: Civic Drive: NW 15th to Sleret

Type of Project: Design and construction of facilities to accommodate growth from development and to correct deficiencies.

**Estimated Dollars:**

Funds	Description	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
Resources	Dev/SDC Credit	0	1,300,000	0	0	0	0	1,300,000
Resources Total		0	1,300,000	0	0	0	0	1,300,000
Expenses	Construct/Reimburse	0	1,300,000	0	0	0	0	1,300,000
Expenses Total		0	1,300,000	0	0	0	0	1,300,000



Stormwater Unfunded and Future Summary								
Project	Project Name	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
901500	NE 5th Street Storm Drain	0	0	0	0	0	0	145,201
903700	Willow Parkway Storm Drain	0	0	0	0	0	0	99,818
907400	194th Avenue Pipe Enlargement at I-84	0	0	0	0	0	0	307,800
909200	Hogan Place Storm Drain	0	0	0	0	0	0	741,456
909600	Burlingame Cr. South of Powell Valley Road	0	0	0	0	0	0	298,575
909800	Kelly Creek, South of SE Salquist Road	0	0	0	0	0	0	348,033
909900	Burnside Diversion to Kelly Creek	0	0	0	0	0	0	1,379,683
910700	Division to Kelly Stormdrain	0	0	0	0	0	0	353,619
910800	Division Street Diversion	0	0	0	0	0	0	92,249
911100	Stark Street (West) PRF	0	0	0	0	0	0	86,483
911200	Burnside (West) PRF	0	0	0	0	0	0	53,352
911300	Burnside (East) PRF	0	0	0	0	0	0	69,187
911400	Water Qual Facility @ 194th Ave.	0	0	0	0	0	0	511,020
912300	Pipe Replacements - N. 181st	0	0	0	0	0	0	1,390,807
912500	Pipe Replacements - S. 181st (50 year fix)	0	0	0	0	0	0	1,385,230
912700	Pipe Replacements - South 162nd Ave.	0	0	0	0	0	0	106,725
913200	SW 7th St: Johnson Creek Riparian Corridor Improvement	0	0	0	0	0	0	2,138,096
913300	East Gresham Grade School	0	0	0	0	0	0	424,616
913400	SE Dowsett St. Riparian Corridor Restoration	0	0	0	0	0	0	139,216
913500	Grace Community Church	0	0	0	0	0	0	130,062
913600	Bus Creek Restoration	0	0	0	0	0	0	66,201
913700	West Gresham Grade School: Johnson Creek Riparian Corridor	0	0	0	0	0	0	102,600
913800	SW14th Stabilization: Johnson Creek Riparian Corridor Imp	0	0	0	0	0	0	86,270
913900	SE Regner to Hogan: Johnson Creek Riparian Corridor Imp	0	0	0	0	0	0	780,516
914000	Willowbrook Pond	0	0	0	0	0	0	25,711
914300	Water Quality Monitoring-Fairview Creek PRF	0	0	0	0	0	0	22,800
915200	Atherton Ave. Culvert Improvement	0	0	0	0	0	0	42,753
915400	Butler Creek- Groups 1A,B & C Pipe Improvement	0	0	0	0	0	0	400,838
915500	Butler Creek- Groups 2A & B Pipe Improvement	0	0	0	0	0	0	185,548
915600	Brick Creek Culvert Improvement	0	0	0	0	0	0	88,381
915800	Butler West- Group 3- Pipe Improvement	0	0	0	0	0	0	269,440
915900	Cedar Creek- Group 1 - Pipe Improvement	0	0	0	0	0	0	235,707
916000	Cedar Creek- Group 2- Culvert Improvement	0	0	0	0	0	0	120,694
916100	Mawcrest Dr. - Pipe Improvement	0	0	0	0	0	0	78,788
916200	Miller Ct. - Pipe Improvement	0	0	0	0	0	0	172,596
916300	Morian Ave. - Pipe Improvement	0	0	0	0	0	0	98,782
916400	Powell Blvd East - Group 2 Pipe Improvement	0	0	0	0	0	0	150,410

Stormwater Unfunded and Future Summary								
Project	Project Name	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total
916500	Powell Loop - Group 1 - Pipe Improvement	0	0	0	0	0	0	372,274
916600	Powell Loop - Group 2 - Pipe Improvement	0	0	0	0	0	0	270,369
916700	Roberts Drive - Pipe Improvement	0	0	0	0	0	0	265,308
916900	Towle Ave East - Group 1 - Pipe Improvement	0	0	0	0	0	0	118,456
917000	Towle Ave East - Group 2 - Pipe Improvement	0	0	0	0	0	0	360,064
917100	Towle Ave South - Pipe Improvement	0	0	0	0	0	0	153,465
917200	Walters Drive - Culvert Improvement	0	0	0	0	0	0	58,787
917300	Hogan Place Regional PRF	0	0	0	0	0	0	783,938
917500	Ironwood Access Road Culvert Removal	0	0	0	0	0	0	138,413
917600	NE Hale Place Bank Stabilization	0	0	0	0	0	0	145,553
917800	NE 7th Ct. Channel Modification	0	0	0	0	0	0	138,264
917900	Riparian Enhancements near Gr. Golf Course	0	0	0	0	0	0	154,851
918100	Highway 26 Ecology Embankment	0	0	0	0	0	0	664,633
918200	Vista Way PRF	0	0	0	0	0	0	162,280
918300	23rd Ave and Hale Street PRF	0	0	0	0	0	0	151,597
918600	Major Outfall Rehabilitation (NE Scott, SW Condor, SE La	0	0	0	0	0	0	139,916
919000	SE Powell Valley Road	0	0	0	0	0	0	208,513
919100	Bell Acres Trailer Park	0	0	0	0	0	0	1,183,503
919300	Gresham Golf Course Creek Meandering	0	0	0	0	0	0	557,374
919400	SE 24th Street to SE Salquist Road	0	0	0	0	0	0	339,928
919500	Johnson Creek Restoration at Main City Park	0	0	0	0	0	0	179,556
CIPSW00014	Johnson Creek Stormwater LID Retrofit	0	0	0	0	0	0	702,000
CIPSW00017	Chastain Creek Improvements and Fill Remediation	0	0	0	0	0	0	7,500,000
CIPSW00018	SW 7th Street: Johnson Creek Corridor Improvements	0	0	0	0	0	0	2,583,030
CIPSW00019	SE Hogan to Regner: Johnson Creek Corridor Improveme	0	0	0	0	0	0	1,255,117
CIPSW00020	SE 252nd Avenue: Johnson Creek Corridor Improvements	0	0	0	0	0	0	717,377
CIPSW00025	NE Halsey Street Pipe Improvements	0	0	0	0	0	0	4,459,788
CIPSW00026	Halsey Capacity Improvements and Water Quality Facility	0	0	0	0	0	0	2,287,867
CIPSW00027	NE Kirk Park Water Quality Facility	0	0	0	0	0	0	666,000
CIPSW00028	NW 1st Street/Ava Avenue Pipe Improvements	0	0	0	0	0	0	786,778
CIPSW00029	Elliot Avenue Pipe Improvements	0	0	0	0	0	0	863,000
CIPSW00030	Elliot Avenue Green Street	0	0	0	0	0	0	341,000
CIPSW00031	Channel Replacement Southeast of Division and Clevelan	0	0	0	0	0	0	1,667,762
CIPSW00032	Hogan Drive Outfall Extension	0	0	0	0	0	0	2,348,000
CIPSW00033	17th and 18th Street Green Streets Improvements	0	0	0	0	0	0	644,000
CIPSW00034	Division Street Pipe Improvements	0	0	0	0	0	0	2,464,000
CIPSW00035	Powell and Hwy 26 Pipe Improvements	0	0	0	0	0	0	7,149,000

Stormwater Unfunded and Future Summary									
Project	Project Name	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	Total	
CIPSW00036	SE Salquist Road Pipe Improvements	0	0	0	0	0	0	1,000,000	
CIPSW00037	Wendy Ave. and 16th St. Green Street Improvements	0	0	0	0	0	0	556,000	
CIPSW00038	Fairview Creek Stark Street Culvert	0	0	0	0	0	0	401,000	
CIPSW00039	Stark St. Water Quality Swale	0	0	0	0	0	0	671,000	
CIPSW00040	Wallula Ave. Open Channel	0	0	0	0	0	0	415,129	
CIPSW00041	NE Burnside Road Pipe Replacements	0	0	0	0	0	0	3,645,059	
CIPSW00042	NE 19th Ave. Parallel Pipe	0	0	0	0	0	0	2,196,000	
CIPSW00043	Liberty Ave. Green Street	0	0	0	0	0	0	505,000	
CIPSW00044	Civic Drive Improvements	0	0	0	0	0	0	1,022,000	
CIPSW00045	K-Mart Pipe Improvements	0	0	0	0	0	0	4,992,933	
Grand Total		0	0	0	0	0	0	71,515,145	



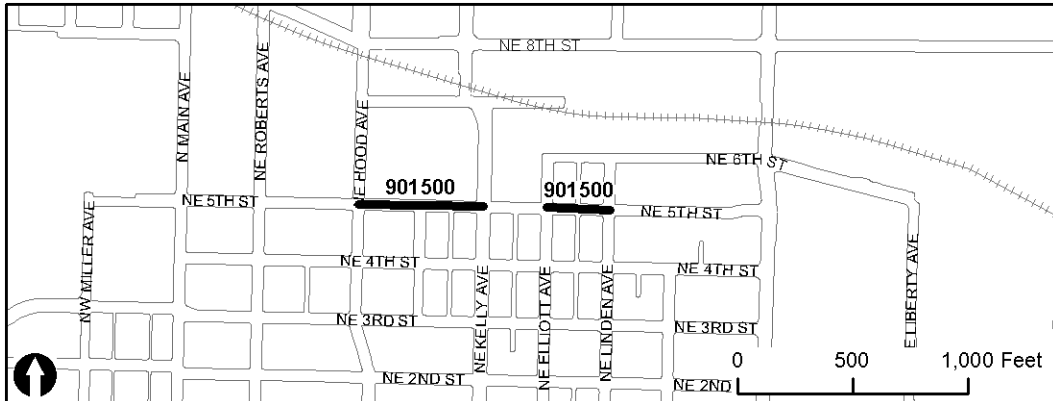
**UNFUNDED and FUTURE PROJECT
Stormwater**

901500: NE 5th Street Storm Drain

Description: This project consists of 900 L.F. of 15" and 18" storm drain in NE 5th Street from Roberts Street to NE Elliott. The project is located in the Central City Neighborhood District.

Justification: The existing storm system is under capacity for the existing level of development in the basin.

Type of Project: Design and construction of facilities and utilities for growth and to correct deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Repair/Replacemer	145,201
Resources Total		145,201
Expenses	Design/Const Admi	29,393
	Construction	97,976
	Admin (14%)	17,832
Expenses Total		145,201

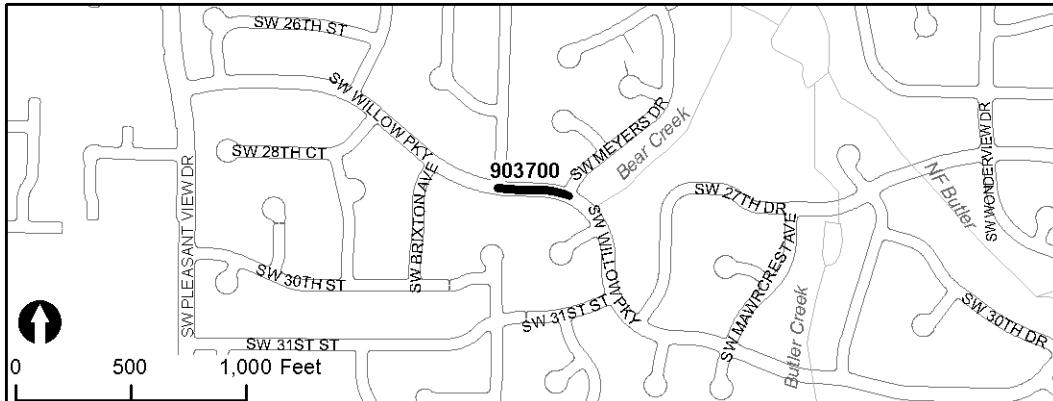
UNFUNDED and FUTURE PROJECT
Stormwater

903700: Willow Parkway Storm Drain

Description: This project constructs approximately 400 L.F. of 18" storm drain to replace an existing 12" pipe between SW Eastwood Avenue and SW Meyers Place. The project is located in the Southwest Neighborhood District and is in the Johnson Creek Basin.

Justification: The existing undersized pipe is unable to convey the 10-year storm flows. The project will provide the increased capacity required to convey 10-year flows from existing development to prevent local flooding.

Type of Project: Design and construction of facilities and utilities to correct deficiencies .



Estimated Dollars:

Funds	Description	Total
Resources	Operating	99,818
Resources Total		99,818
Expenses	Design/Const Admin	20,206
	Construction	67,354
	Admin (14%)	12,258
Expenses Total		99,818

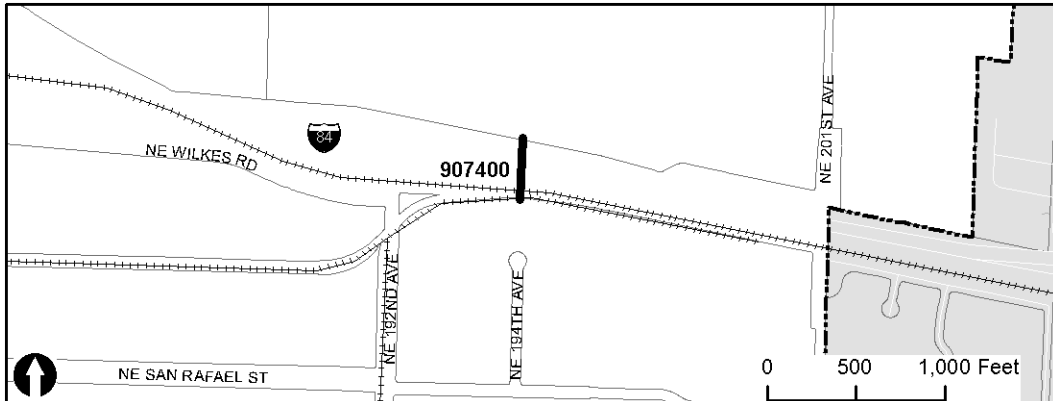
UNFUNDED and FUTURE PROJECT
Stormwater

907400: 194th Avenue Pipe Enlargement at I-84

Description: This project installs a 36" stormwater pipe through the existing transportation corridor occupied by I-84 and a railroad. This project is located in the North Gresham Neighborhood District and the West Gresham Basin.

Justification: The existing storm pipe crossing I-84 and adjacent to the railroad is 24". Enlargement of this storm pipe to 36" is required to convey runoff from future development. A pre-requisite to this project is the West Gresham Master Plan, currently underway.

Type of Project: Design and construction of facilities and utilities for growth.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	307,800
Resources Total		307,800
Expenses	Design/Const Admin	60,000
	Property Acq	10,000
	Construction	200,000
	Admin (14%)	37,800
Expenses Total		307,800

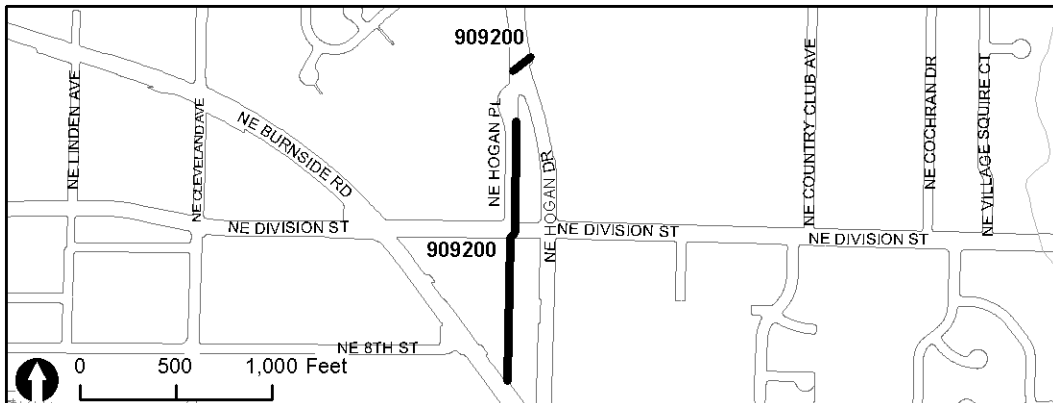
UNFUNDED and FUTURE PROJECT
Stormwater

909200: Hogan Place Storm Drain

Description: This project replaces 2,750 ft. of storm drain pipe of various diameters. This project is located in the North Central and Powell Valley Neighborhood Districts.

Justification: This section of storm pipe is not adequate to accommodate stormwater runoff from the area upstream. If improvements are not made, flooding in the project area may occur. Increasing capacity will permit continued growth in SE Gresham. This project is identified as element B4, B6 and B8-B10 in the 1988 Kelly Creek Basin Master Plan.

Type of Project: Design and construction of facilities to meet growth and to correct deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	741,456
Resources Total		741,456
Expenses	Design/Const Admin	150,100
	Construction	500,300
	Admin (14%)	91,056
Expenses Total		741,456

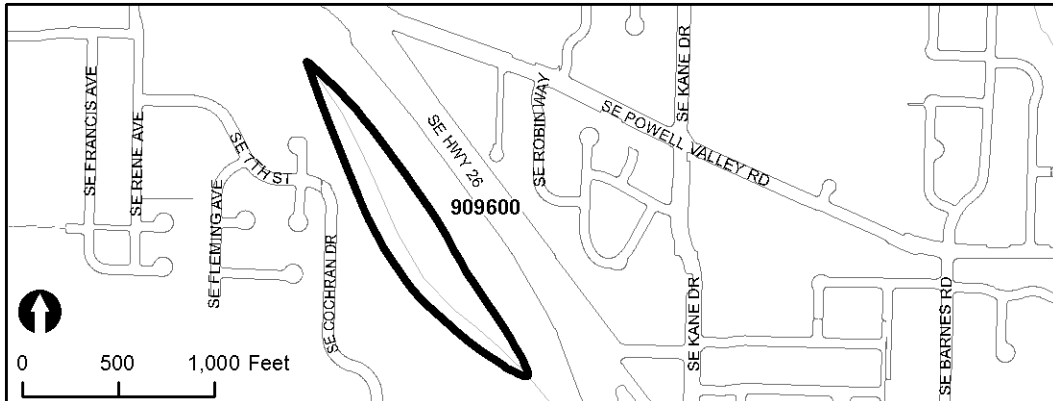
UNFUNDED and FUTURE PROJECT
Stormwater

909600: Burlingame Cr. South of Powell Valley Road

Description: This project adds stormwater conveyance capacity consisting of 2300 linear feet of improvements. This project is located in the Mt Hood Neighborhood.

Justification: Increase channel size to handle peak flows and reduce potential flood damage. This project is identified as element B21 in the 1988 Kelly Creek Basin Master Plan.

Type of Project: Design and construction of facilities to correct deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	298,575
Resources Total		298,575
Expenses	Design/Const Admin	60,440
	Construction	201,468
	Admin (14%)	36,667
Expenses Total		298,575

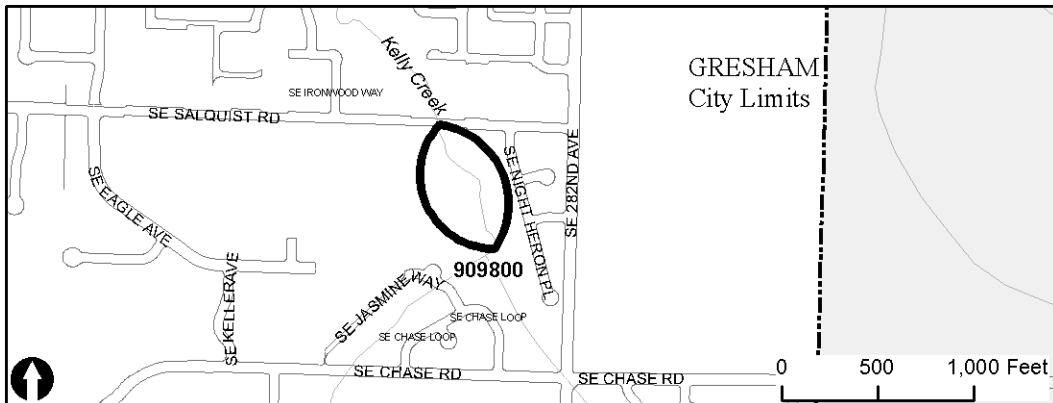
UNFUNDED and FUTURE PROJECT
Stormwater

909800: Kelly Creek, South of SE Salquist Road

Description: This project adds stormwater conveyance capacity consisting of channel improvements in Kelly Creek, south of SE Salquist. This project is located in the Kelly Creek Neighborhood.

Justification: An increased channel size is required to handle peak flows and reduce potential flood damage. This project is identified as element A19 in the 1988 Kelly Creek Basin Master Plan.

Type of Project: Design and construction of facilities to correct deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	348,033
Resources Total		348,033
Expenses	Design/Const Admin	70,452
	Construction	234,840
	Admin (14%)	42,741
Expenses Total		348,033

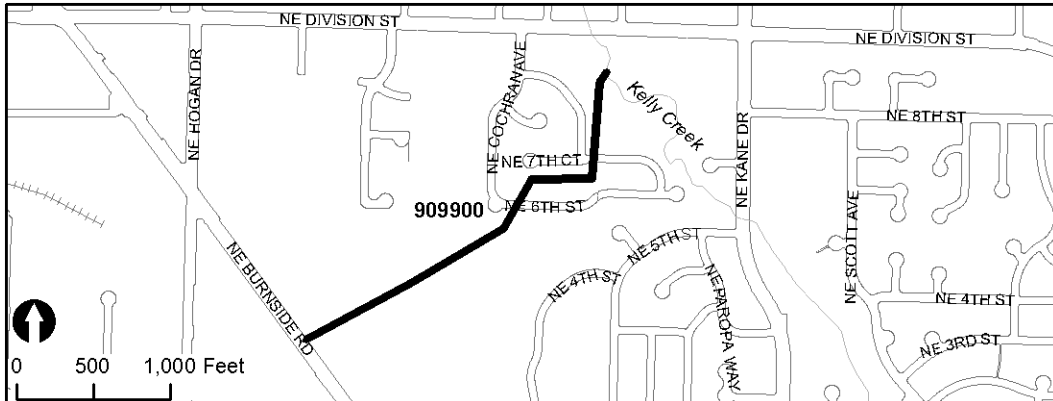
UNFUNDED and FUTURE PROJECT
Stormwater

909900: Burnside Diversion to Kelly Creek

Description: This project adds stormwater conveyance capacity consisting of 2920 linear feet of up to 72" parallel storm drain pipe from E Burnside to Kelly Creek. This project is located in the Northeast Neighborhood.

Justification: Increase pipe size to handle peak flows and reduce potential flood damage. This project is identified as element A12.1-A12.5 in the 1988 Kelly Creek Basin Master Plan.

Type of Project: Design and construction of facilities to correct deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	1,379,683
Resources Total		1,379,683
Expenses	Design/Const Admin	279,288
	Construction	930,960
	Admin (14%)	169,435
Expenses Total		1,379,683

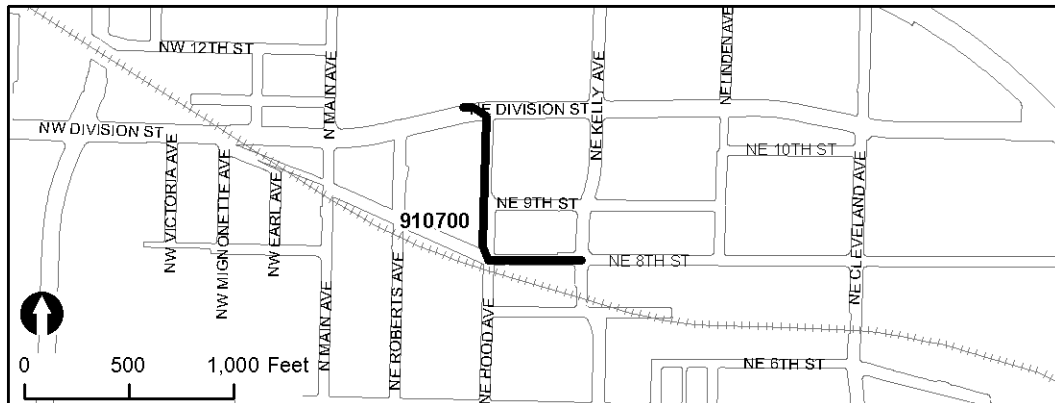
UNFUNDED and FUTURE PROJECT
Stormwater

910700: Division to Kelly Stormdrain

Description: Upsize the main trunk line on Division. Existing pipe size is 12-inch in diameter. Suggested replacement pipe size is 24-inch. This project is located in the Central City Neighborhood and in the Fairview Creek Drainage Basin. SDC project #FC-5.

Justification: Eliminates local storm drain system flooding.

Type of Project: Design and construction of storm drain improvements.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	240,461
	SDC	113,158
Resources Total		353,619
Expenses	Design/Const Admi	71,556
	Construction	238,627
	Admin (14%)	43,436
Expenses Total		353,619

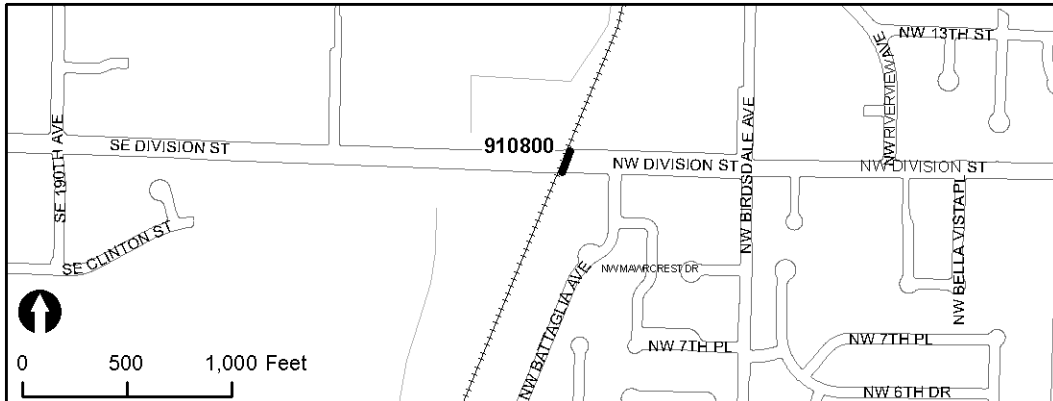
**UNFUNDED and FUTURE PROJECT
Stormwater**

910800: Division Street Diversion

Description: This project will design and construct a diversion structure to divert the flows from the area south of Division Street into the proposed Birdsedale water quality facility. This 18 acre area drains a developed residential area constructed from the 1950-1970s, as well as a portion of Division Street. This project is in the Northwest Neighborhood and in the Fairview Creek Drainage Basin. SDC project #FC-1.

Justification: There is no existing water quality treatment in this area and flows can be accommodated in the Birdsedale Facility.

Type of Project: Design and construction of water quality treatment.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	85,790
	SDC	6,459
Resources Total		92,249
Expenses	Design/Const Admi	18,705
	Construction	62,246
	Admin (14%)	11,298
Expenses Total		92,249

UNFUNDED and FUTURE PROJECT
Stormwater

911100: Stark Street (West) PRF

Description: Install a pollution reduction facility at the intersection of SE Stark St. and SE 205th. This project is in the North Central Neighborhood and in the Fairview Creek Drainage Basin. SDC project #FC-3.

Justification: There is no existing water quality treatment in this area. This facility would improve stormwater quality flowing to Fairview Creek.

Type of Project: Design and construction of water quality treatment .



Estimated Dollars:

Funds	Description	Total
Resources	Operating	25,944
	SDC	60,539
Resources Total		86,483
Expenses	Design/Const Admi	12,081
	Construction	63,785
	Admin (14%)	10,617
Expenses Total		86,483

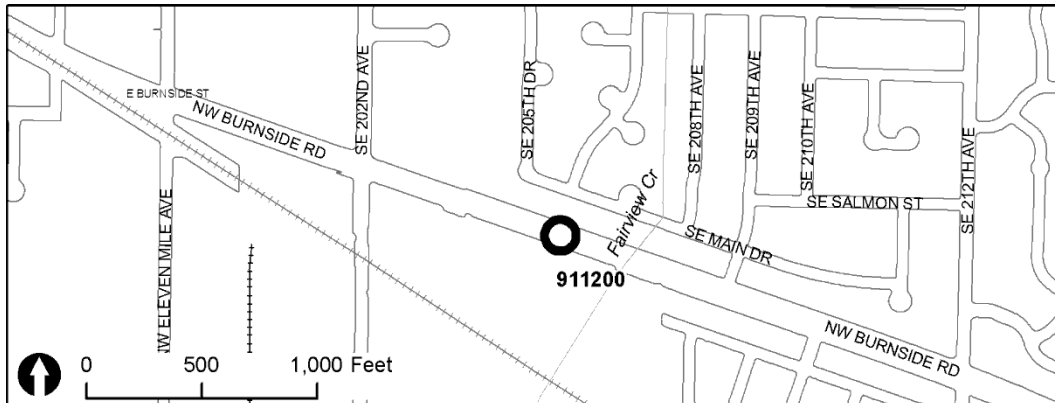
UNFUNDED and FUTURE PROJECT
Stormwater

911200: Burnside (West) PRF

Description: This project would install a pollution reduction facility at Burnside Street prior to discharging to Fairview Creek. The 9 acre area drains a fully developed area dominated by commercial and residential properties. A portion of Burnside Street is also located within the drainage area served by this project. This project is in the North Central Neighborhood and in the Fairview Creek Drainage Basin.

Justification: There is no water quality treatment in this area and this facility would improve the quality of stormwater flowing to Fairview Creek.

Type of Project: Design and construction of structural pollutant reduction facility.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	53,352
Resources Total		53,352
Expenses	Design/Const Admin	10,800
	Construction	36,000
	Admin (14%)	6,552
Expenses Total		53,352

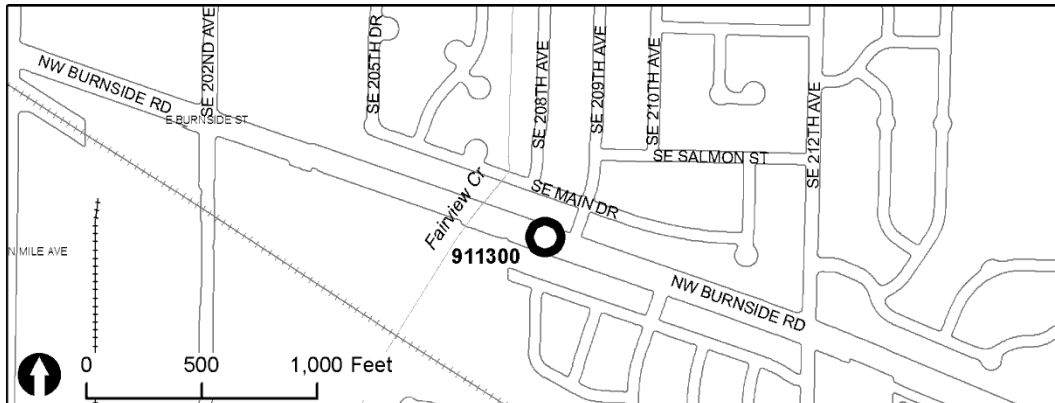
UNFUNDED and FUTURE PROJECT
Stormwater

911300: Burnside (East) PRF

Description: Install a pollution reduction facility (PRF) at Burnside Street, just east of Fairview Creek. This water quality area drains a 19 acre residential area constructed from 1960-1970. This project is in the North Central Neighborhood and in the Fairview Creek Drainage Basin. SDC project #FC-4.

Justification: There is no existing water quality treatment in this area and this facility would improve the quality of stormwater flowing into Fairview Creek.

Type of Project: Design and construction of stormwater quality treatment.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	62,267
	SDC	6,920
Resources Total		69,187
Expenses	Design/Const Admi	12,930
	Construction	47,721
	Admin (14%)	8,536
Expenses Total		69,187

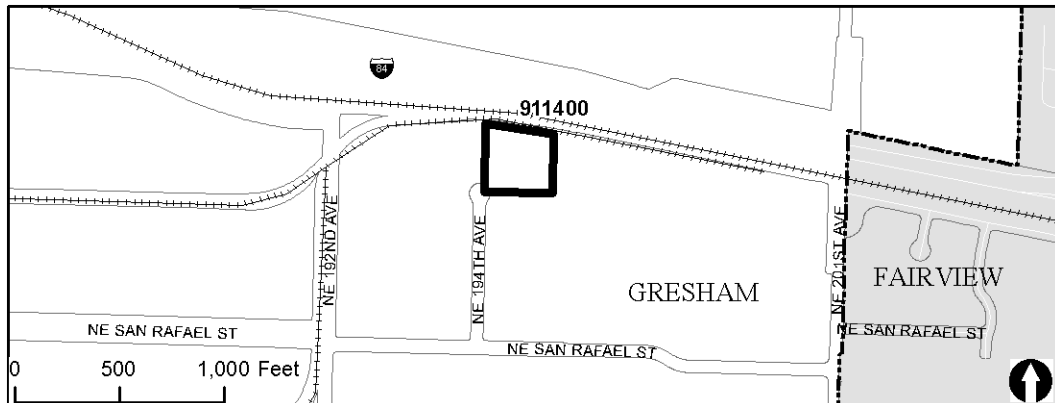
**UNFUNDED and FUTURE PROJECT
Stormwater**

911400: Water Quality Facility @ 194th Ave

Description: Create a 2.1 - acre-feet water quality facility at the north-eastern corner of the cul-de-sac at the north end of 194th Avenue south of I-84. Based on impervious percentages for existing and future conditions, 62% of the project would benefit flows associated with future development. This project is located in the North Gresham neighborhood district and the West Gresham Drainage Basin.

Justification: This facility would provide water quality treatment for a drainage area of approximately 102 acres.

Type of Project: Design and construction of facilities related to growth and to correct deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	511,020
Resources Total		511,020
Expenses	Design/Const Admin	49,800
	Property Acq	232,320
	Construction	166,143
	Admin (14%)	62,757
Expenses Total		511,020

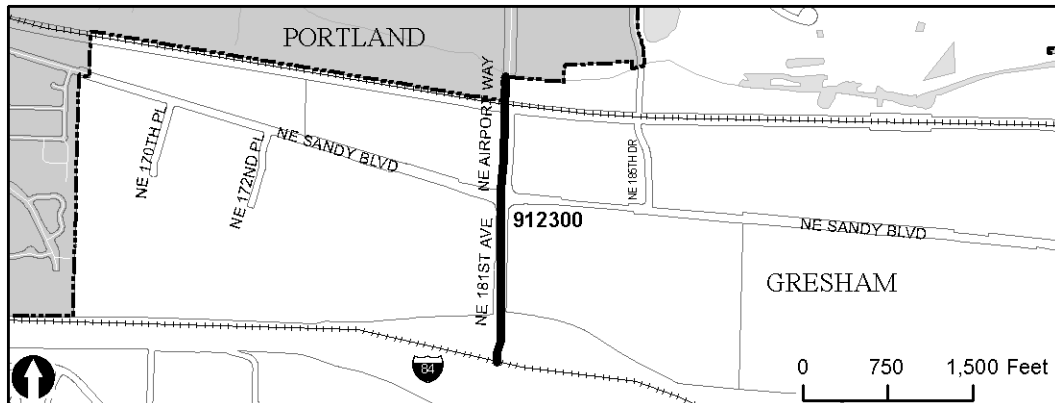
UNFUNDED and FUTURE PROJECT
Stormwater

912300: Pipe Replacements – N. 181st

Description: Replace pipe segments along 181st Avenue starting north of I-84 and extending to the outfall of the 181st Avenue pipe system. Project elements are as follows: 1) Replace 42" Dia pipe with 48" Dia pipe, 375' Long. 2) Replace 48" Dia pipe with 54" Dia pipe, 1276' Long. 3) Replace 42" Dia pipe with 48" Dia pipe, 368' Long. 4) Replace 42" Dia pipe with 60" Dia pipe, 314' Long. Based on impervious percentages for existing and future conditions, 23% of the project would be funded by SDCs. This project is located in the North Gresham and Wilkes East Neighborhoods and the West Gresham Drainage Basin.

Justification: This capital project will provide increased capacity to alleviate expected flooding problems on 181st Ave north of I-84.

Type of Project: Design and construction of facilities related to growth and to correct deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	1,390,807
Resources Total		1,390,807
Expenses	Design/Const Admi	281,578
	Construction	938,374
	Admin (14%)	170,855
Expenses Total		1,390,807

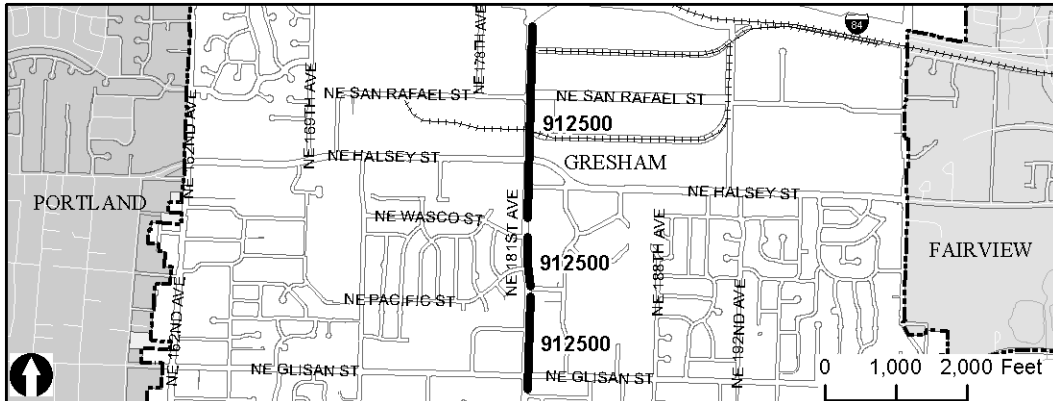
UNFUNDED and FUTURE PROJECT
Stormwater

912500: Pipe Replacements – 181st (50 year fix)

Description: Replace pipe segments along 181st Avenue starting just south Glisan Street and extending to I-84. Project elements are as follows: 1) Replace 21" Dia pipe with 24" Dia pipe, 250' Long. 2) Replace 27" Dia pipe with 36" Dia pipe, 1661' Long. 3) Replace 30" Dia pipe with 48" Dia pipe, 725' Long. 4) Replace 30" Dia pipe with 42" Dia pipe, 600' Long. 5) Replace 36" Dia pipe with 54" Dia pipe, 675' Long. 6) Replace 36" Dia pipe with 42" Dia pipe, 600' Long. Based on impervious percentages for existing and future conditions, 10% of the project would be funded by SDCs. This project is located in the North Gresham and Wilkes East Neighborhoods and the West Gresham Drainage Basin.

Justification: This capital project will provide increased capacity to alleviate expected flooding problems on 181st Ave. south of I-84.

Type of Project: Design and construction of facilities related to growth and to correct deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	1,385,230
Resources Total		1,385,230
Expenses	Design/Const Admi	280,322
	Construction	934,806
	Admin (14%)	170,102
Expenses Total		1,385,230

912700: Pipe Replacements – South 162nd Ave.

Type of Project: Design and construction of facilities and utilities to correct deficiencies and for future growth.

ADOPTED: JUNE 17, 2025

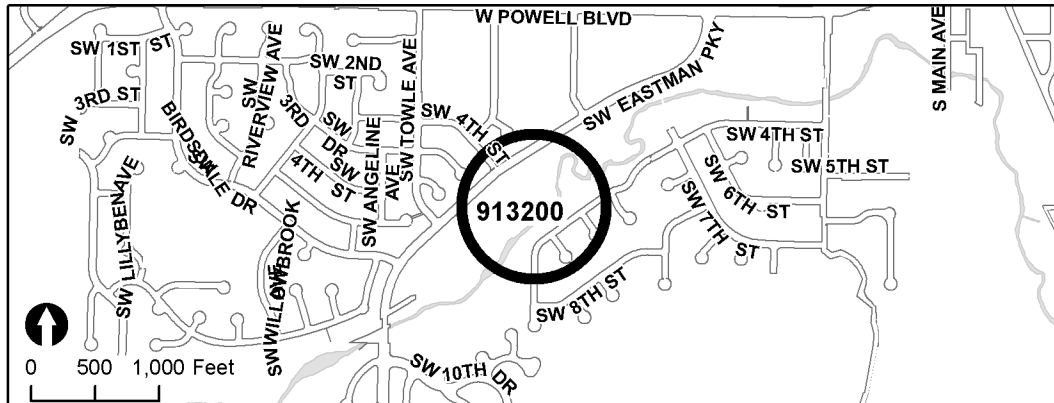
UNFUNDED and FUTURE PROJECT
Stormwater

913200: SW 7th St: Johnson Creek Riparian Corridor Improvements

Description: Improve natural resource functions along 16.8 riparian acres of public property located between SW Eastman Parkway and SW Overlook Ct. by: stabilizing stream banks, improving the stream bed conditions through installation of bio-engineered bendway weirs, reconnecting Johnson Creek mainstem with its floodplain, and replacing aggressive invasive plant species with native tree and shrub species. SDC project #JC-20.

Justification: Assists City in: (1) addressing habitat needs for ESA-listed salmon, and (2) responding to water quality (NPDES and Temperature TMDL) requirements by decreasing amount of bank soil eroding into creek, improving floodplain storage, reducing stream temperature through tree shade, and providing a vegetated buffer to capture nutrient and pesticide runoff.

Type of project: Design and implementation of stream restoration/enhancement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	1,710,476
	SDC	427,620
Resources Total		2,138,096
Expenses	Design/Const Admi	80,343
	Construction	1,795,131
	Admin (14%)	262,622
Expenses Total		2,138,096

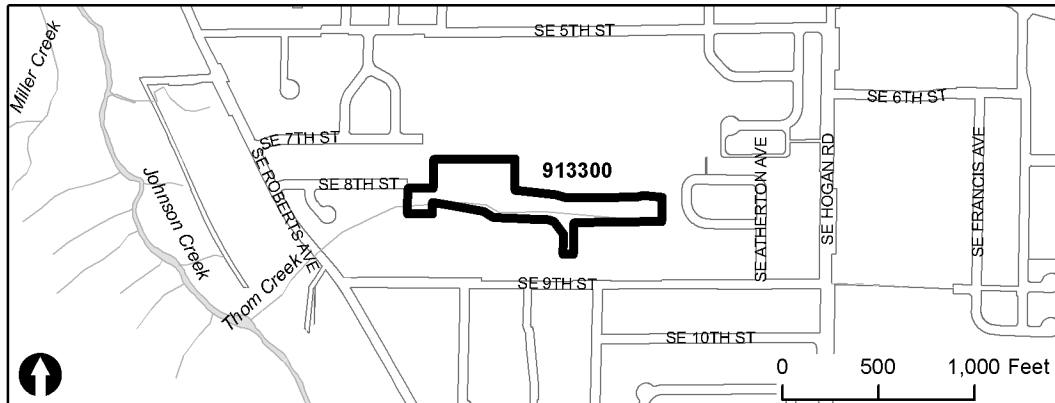
UNFUNDED and FUTURE PROJECT
Stormwater

913300: East Gresham Grade School

Description: Improve natural resource functions within a 5.6 acre riparian tract behind East Gresham Grade School and McCarty Middle School by using stormwater runoff from school properties to support riparian area plantings and by stabilizing slopes. SDC project #JC-24.

Justification: Assists City in complying with water quality and ESA requirements by decreasing amount of bank soil eroding into creek, reducing stream temperature, and improving aquatic habitat.

Type of Project: Design and implementation of stream restoration/enhancement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	339,692
	SDC	84,924
Resources Total		424,616
Expenses	Design/Const Admi	85,992
	Construction	286,526
	Admin (14%)	52,098
Expenses Total		424,616

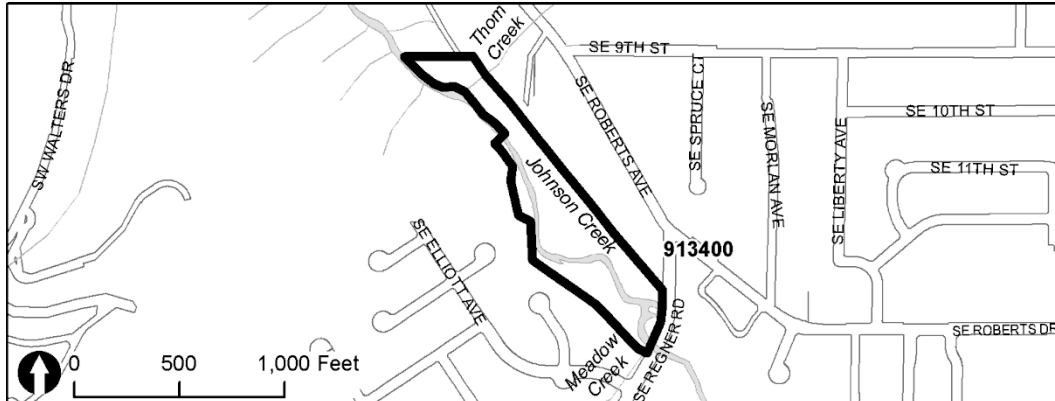
UNFUNDED and FUTURE PROJECT
Stormwater

913400: SE Dowsett St. Riparian Corridor Restoration

Description: Improve natural resource functions within a 9.35-acre riparian tract along Johnson Creek between SE Dowsett Ln. and SE Regner Rd. by replacing aggressive invasive plant species with native tree and shrub species and stabilizing slopes. SDC project #JC-25.

Justification: Assists City in complying with water quality and ESA requirements by decreasing amount of bank soil eroding into creek, reducing stream temperature, and improving aquatic habitat.

Type of Project: Design and implementation of stream restoration/enhancement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	111,372
	SDC	27,844
Resources Total		139,216
Expenses	Design/Const Admi	28,120
	Construction	94,023
	Admin (14%)	17,073
Expenses Total		139,216

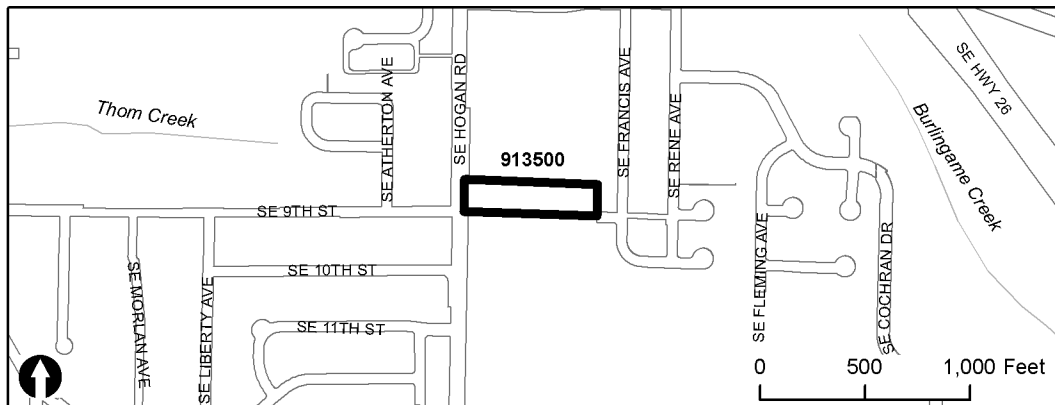
UNFUNDED and FUTURE PROJECT
Stormwater

913500: Grace Community Church

Description: Improve natural resource functions within a 2.22-acre site containing the headwaters of Thom Creek, on the Grace Community Church property off Hogan Rd. The project involves daylighting a stream section currently piped under a parking lot, installing bioswales to treat property's runoff, and installing native tree and shrub species. (JC-NR04)

Justification: Assists City in complying with water quality and ESA requirements by decreasing amount of bank soil eroding into creek, reducing stream temperature, and improving aquatic habitat.

Type of Project: Design and implementation of stream restoration/enhancement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	130,062
Resources Total		130,062
Expenses	Design/Const Admin	26,328
	Construction	87,761
	Admin (14%)	15,973
Expenses Total		130,062

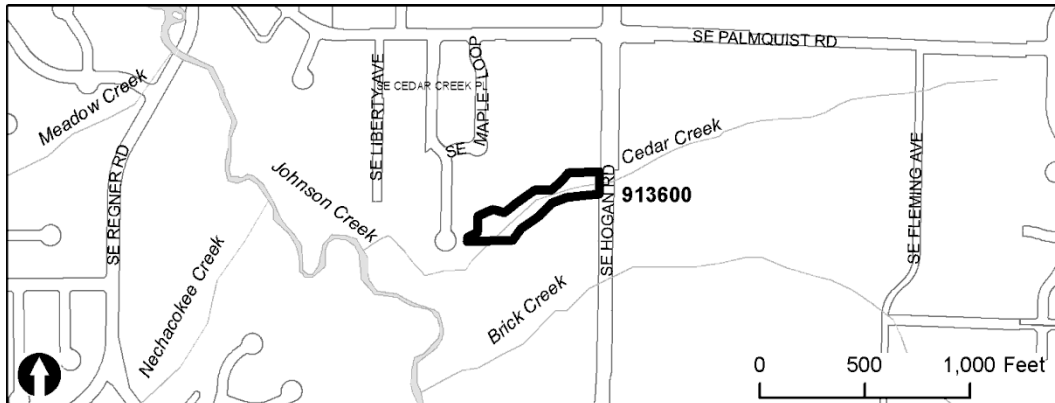
UNFUNDED and FUTURE PROJECT
Stormwater

913600: Bus Creek Restoration

Description: Improve natural resource functions along a 1.63-acre stretch of Cedar Creek, adjacent to the First Student bus yard off Hogan Rd. by installing native tree and plant species and constructing vegetated buffers to treat parking lot runoff. (JC-NR05)

Justification: Assists City in complying with water quality and ESA requirements by decreasing amount of bank soil eroding into creek, reducing stream temperature, and improving aquatic habitat.

Type of Project: Design and implementation of stream restoration/enhancement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	66,201
Resources Total		66,201
Expenses	Design/Const Admin	13,401
	Construction	44,670
	Admin (14%)	8,130
Expenses Total		66,201

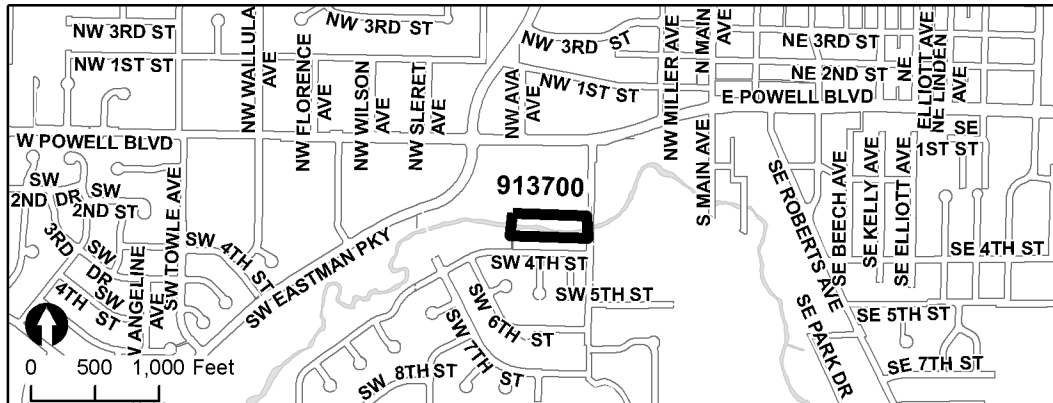
UNFUNDED and FUTURE PROJECT
Stormwater

913700: West Gresham Grade School: Johnson Creek Riparian Corridor Improvements

Description: Improve natural resource functions along 2.5 riparian acres along Johnson Creek, south and east of West Gresham Grade School, by: improving side channel conditions, installing a bendway weir to reduce bank erosion caused by the Walters Rd. bridge, stabilizing areas of slope instability, and replacing aggressive invasive plant species with native tree and shrub species. (JC-NR06)

Justification: Assists City in complying with water quality (NPDES and Temperature TMDL) and ESA requirements by decreasing amount of bank eroding into creek, reducing stream temperature (through tree shade), and improving wetland function, base flow support, and aquatic habitat. This will also reduce bank slumping at the upstream edge of the south bridge abutment.

Type of project: Design and implementation of stream restoration/enhancement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	102,600
Resources Total		102,600
Expenses	Design/Const Admin	6,500
	Construction	83,500
	Admin (14%)	12,600
Expenses Total		102,600

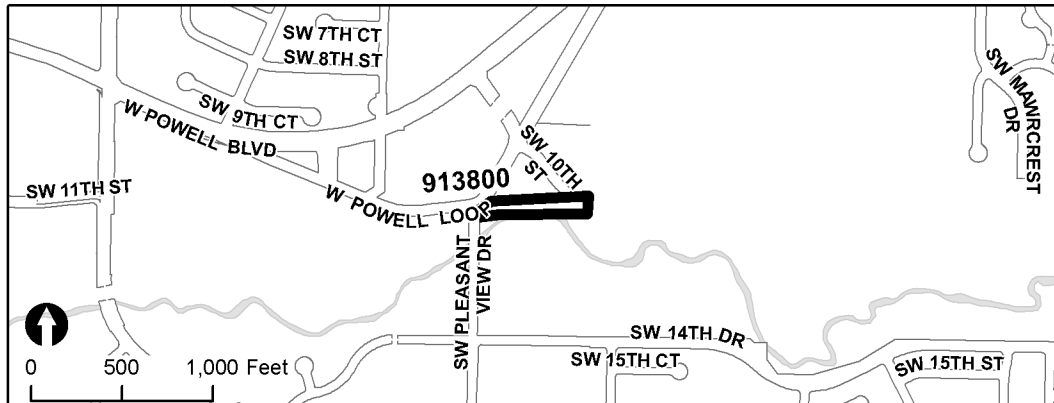
UNFUNDED and FUTURE PROJECT
Stormwater

913800: SW 14th Stabilization: Johnson Creek Riparian Corridor Improvements

Description: Address massive slumping and adjacent areas of bank erosion along 1.55 riparian acres between Johnson Creek and SW 14th Dr., east of SW Pleasant View. Geotechnical analysis, landowner involvement, and significant agency input will be needed, in addition to placement of in-stream structures, and dense re-vegetation of banks and surrounding floodplain areas with native plants. SDC project #JC-21.

Justification: Needed to prevent further additional bank slumping which is a significant source of sediment in the Johnson Creek system. Also assists City in complying with ESA and water quality (NPDES and Temperature TMDL) requirements by, reducing stream temperatures and pollutant levels in the creek, and improving aquatic habitat.

Type of project: Design and implementation of stream restoration/enhancement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	69,015
	SDC	17,255
Resources Total		86,270
Expenses	Design/Const Admi	11,047
	Construction	64,678
	Admin (14%)	10,545
Expenses Total		86,270

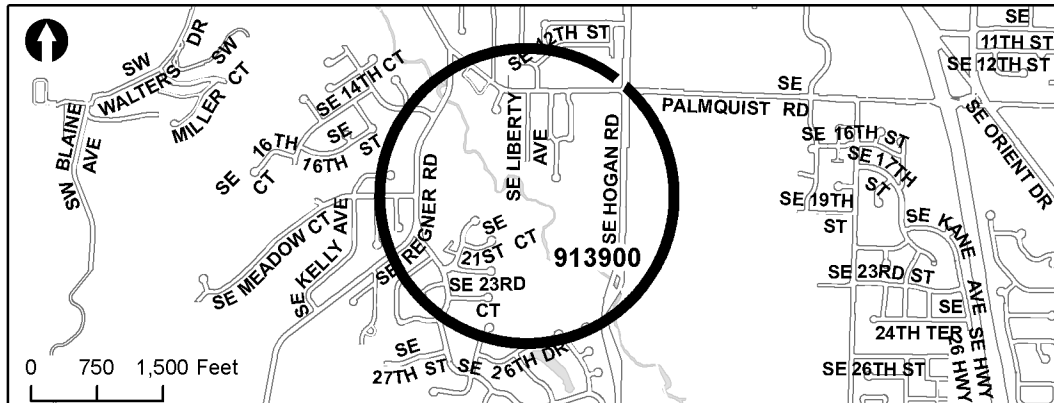
UNFUNDED and FUTURE PROJECT
Stormwater

913900: SE Regner to Hogan: Johnson Creek Riparian Corridor Improvements

Description: Improve natural resource functions along 42.61 riparian acres on both the north and south banks of Johnson Creek between Regner and Hogan Roads by: stabilizing stream banks, enhancing wetland and floodplain function, shading numerous intermittent tributaries to Johnson Creek, and replacing aggressive invasive plant species with native tree and shrub species. SDC project #JC-22.

Justification: Assists City in complying with ESA and water quality (NPDES and Temperature TMDL) requirements by decreasing amount of bank soil eroding into creek, improving floodplain storage and wetland function, reducing stream temperatures (through tree shading), and improving aquatic habitat.

Type of project: Design and implementation of stream restoration/enhancement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	624,412
	SDC	156,104
Resources Total		780,516
Expenses	Design/Const Admi	136,960
	Construction	547,646
	Admin (14%)	95,910
Expenses Total		780,516

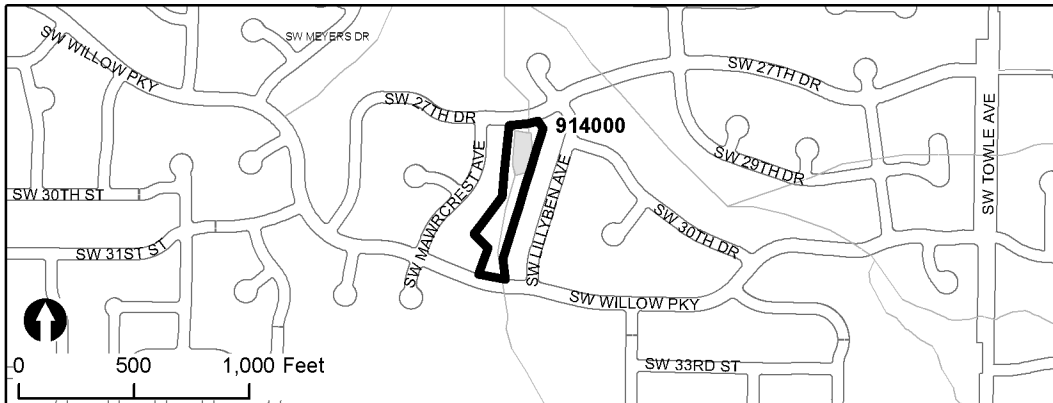
UNFUNDED and FUTURE PROJECT
Stormwater

914000: Willowbrook Pond

Description: Improve natural resource functions within a 1.81-acre parcel of public property located along Butler Creek between SW 27th and SW Willow Parkway by: replacing aggressive invasive plant species with native tree and shrub species and stabilizing the creek banks. (JC-NR09)

Justification: Assists City in complying with water quality and ESA requirements by decreasing amount of bank soil eroding into creek, reducing stream temperature, and improving aquatic habitat.

Type of Project: Design and implementation of stream restoration/enhancement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	25,711
Resources Total		25,711
Expenses	Design/Const Admin	5,205
	Construction	17,349
	Admin (14%)	3,157
Expenses Total		25,711

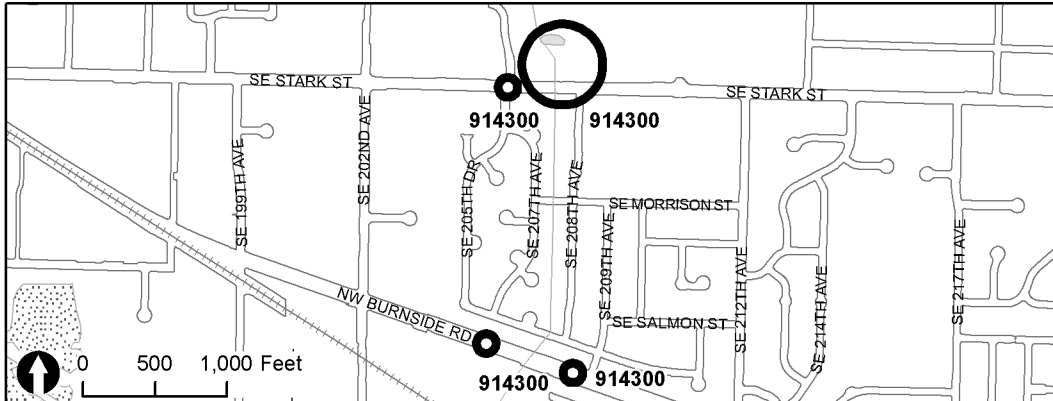
UNFUNDED and FUTURE PROJECT
Stormwater

914300: Water Quality Monitoring – Fairview Creek PRF

Description: Monitor two stormwater runoff events at or just upstream of potential structural Pollution Reduction Facilities (PRF). Water quality sites to be monitored are Burnside East (CIP 911300), Burnside West (CIP 911200) and Stark West (CIP 911100).

Justification: Verification of modeling data to determine that water quality facilities are warranted to treat basin runoff and to customize design of Pollution Reduction Facility or modify city BMPs.

Type of Project: Stormwater quality monitoring.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	22,800
Resources Total		22,800
Expenses	Other	20,000
	Admin (14%)	2,800
Expenses Total		22,800

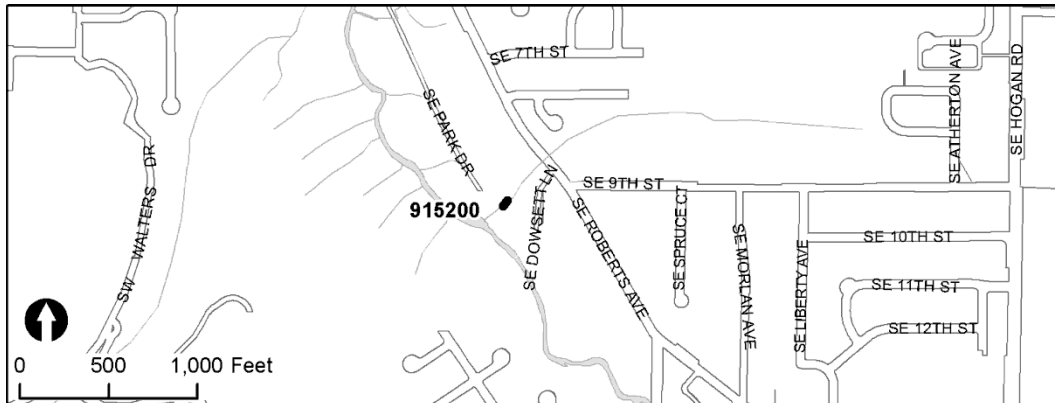
UNFUNDED and FUTURE PROJECT
Stormwater

915200: Atherton Ave. Culvert Improvement

Description: Upsize the culvert. Existing pipe is 2 ft diameter. Suggested replacement pipe size is 4 ft. This project is located in the Atherton Ave. basin. SDC project #JC-1.

Justification: Eliminates overtopping of the roadway and localized street flooding.

Type of Project: Design and construction of larger culvert.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	22,658
	SDC	20,095
Resources Total		42,753
Expenses	Design/Const Admi	8,662
	Construction	28,818
	Admin (14%)	5,273
Expenses Total		42,753

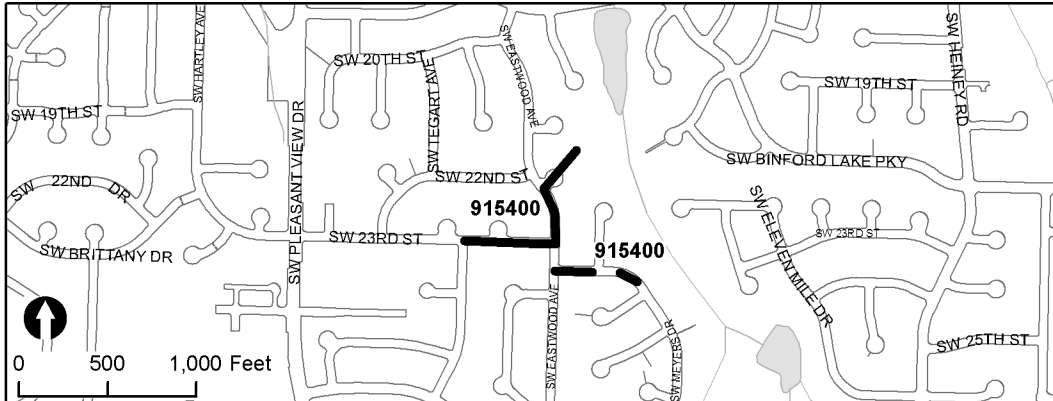
UNFUNDED and FUTURE PROJECT
Stormwater

915400: Butler Creek – Groups 1A, B & C Pipe Improvement

Description: Upsize the 7 storm drain pipes. Existing pipe size varies from 1 ft to 1.25 ft (see Table 6.2). Suggested replacement pipe varies from 1.5 ft to 2 ft (see Table 6.2). This project is located in the Butler Creek basin.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	400,838
Resources Total		400,838
Expenses	Design/Const Admi	81,096
	Construction	270,532
	Admin (14%)	49,210
Expenses Total		400,838

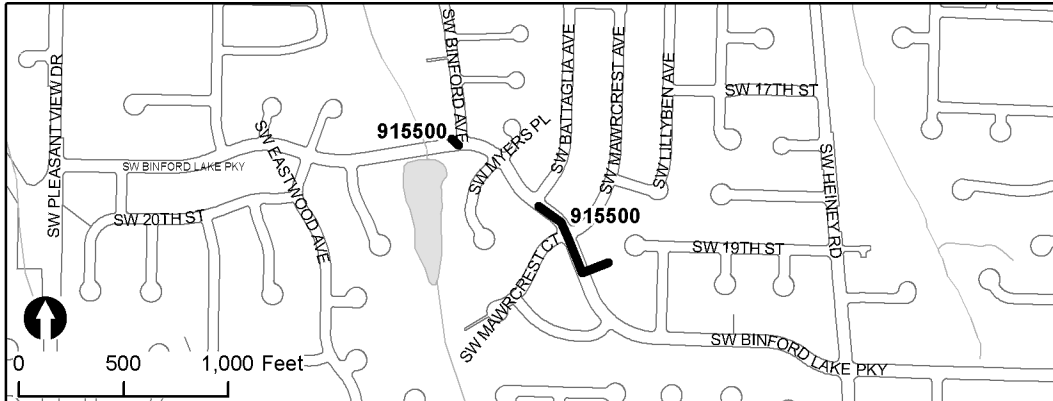
**UNFUNDED and FUTURE PROJECT
Stormwater**

915500: Butler Creek – Groups 2A & B Pipe Improvement

Description: Upsize the 5 storm drain pipes. Existing pipe varies from 1 ft to 1.25 ft (see Table 6.2). Suggested replacement pipe size varies from 1.25 ft to 1.75 ft (see Table 6.2). This project is located in the Butler Creek basin.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	185,548
Resources Total		185,548
Expenses	Design/Const Admi	37,535
	Construction	125,165
	Admin (14%)	22,848
Expenses Total		185,548

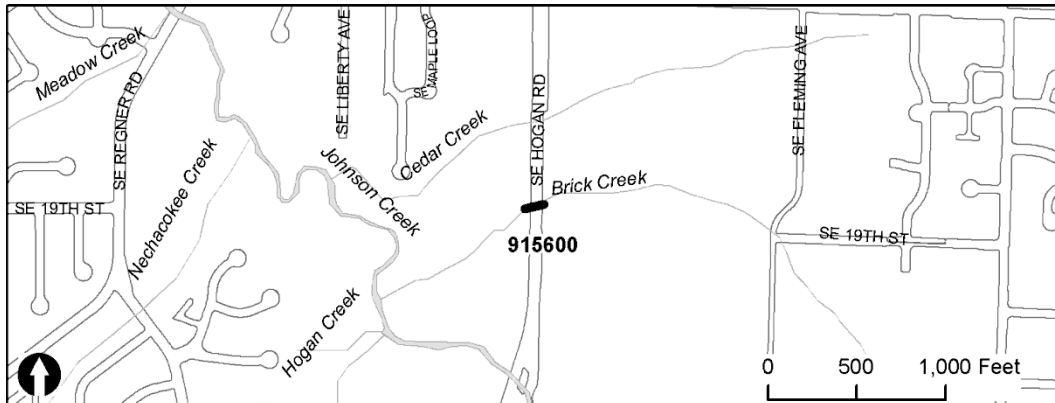
UNFUNDED and FUTURE PROJECT
Stormwater

915600: Brick Creek Culvert Improvement

Description: Upsize the culvert. Existing pipe size is 2 ft diameter. Suggested replacement pipe size is 3.5 ft diameter. This project is located in the Brick Creek basin. SDC project #JC-5.

Justification: Eliminates overtopping of the roadway and localized street flooding.

Type of Project: Design and construction of larger culvert.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	22,979
	SDC	65,402
Resources Total		88,381
Expenses	Design/Const Admi	17,952
	Construction	59,633
	Admin (14%)	10,796
Expenses Total		88,381

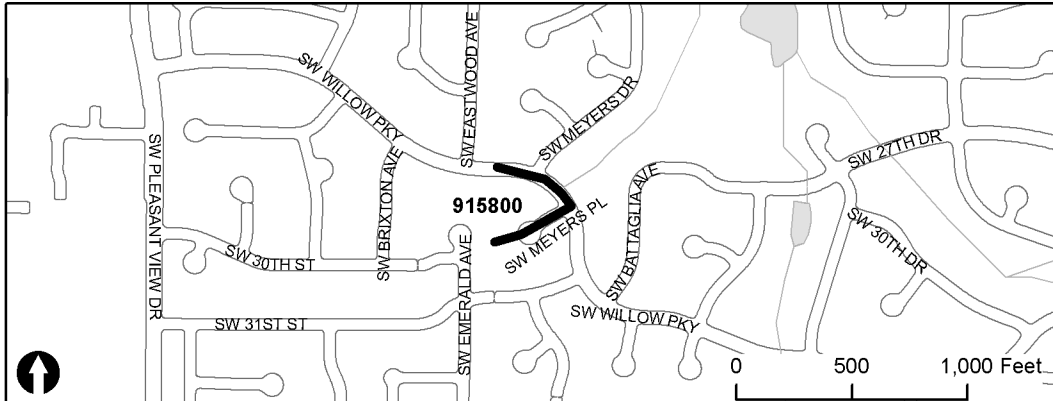
UNFUNDED and FUTURE PROJECT
Stormwater

915800: Butler West – Group 3 – Pipe Improvement

Description: Upsize the 5 storm drain pipes. Existing pipe size varies from 1 ft to 1.75 ft (see Table 6.2). Suggested replacement pipe size varies from 1.5 ft to 3.5 ft (see Table 6.2). This project is located in the Butler West (Bear Creek) basin.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	269,440
Resources Total		269,440
Expenses	Design/Const Admi	54,483
	Construction	181,815
	Admin (14%)	33,142
Expenses Total		269,440

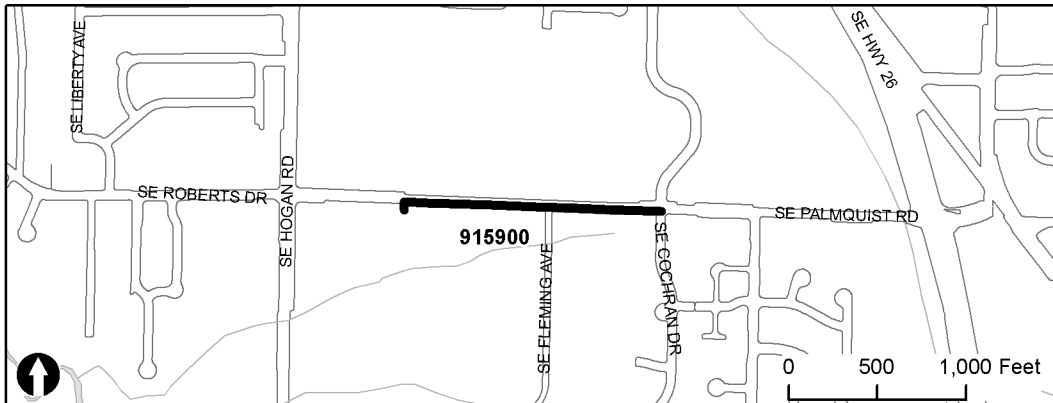
UNFUNDED and FUTURE PROJECT
Stormwater

915900: Cedar Creek – Group 1 – Pipe Improvement

Description: Upsize the 4 storm drain pipes. Existing pipe is 1.5 ft. Suggested replacement pipe size varies from 2.5 ft to 3 ft (see Table 6.2). This project is in the Cedar Creek basin.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	235,707
Resources Total		235,707
Expenses	Design/Const Admi	47,704
	Construction	159,004
	Admin (14%)	28,999
Expenses Total		235,707

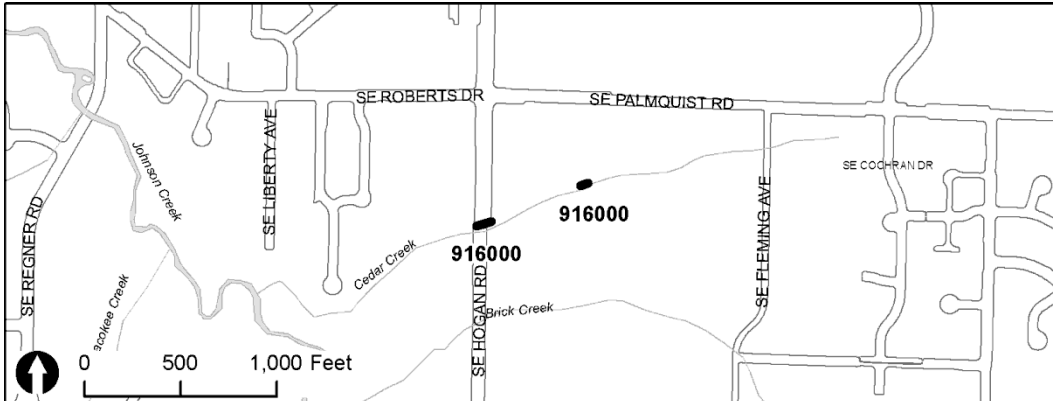
**UNFUNDED and FUTURE PROJECT
Stormwater**

916000: Cedar Creek – Group 2 Culvert Improvement

Description: Upsize the 2 culverts. Existing pipe size varies from 1.75 ft to 2 ft (see Table 6.2). Suggested replacement pipe size varies from 4.5 ft to 5 ft (see Table 6.2). This project is located in the Cedar Creek basin. SDC project #JC-8.

Justification: Eliminates overtopping of the roadway and localized street flooding.

Type of Project: Design and construction of larger culvert.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	38,622
	SDC	82,072
Resources Total		120,694
Expenses	Design/Const Admi	24,480
	Construction	81,401
	Admin (14%)	14,813
Expenses Total		120,694

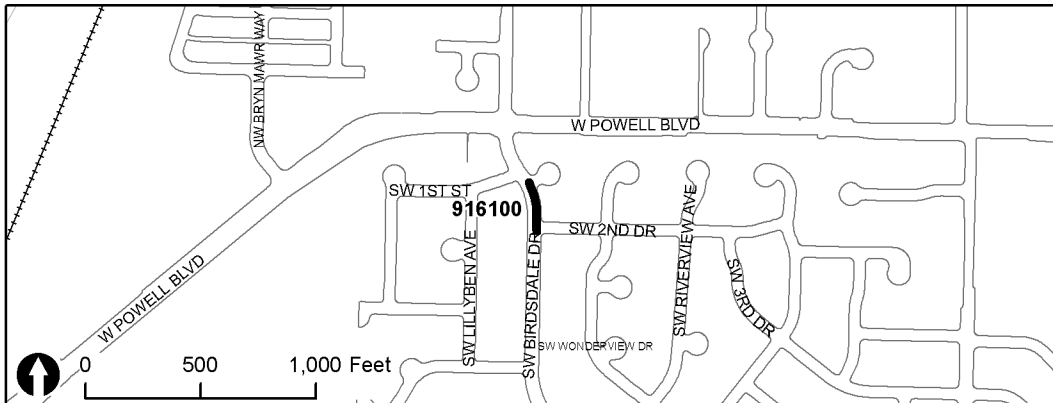
**UNFUNDED and FUTURE PROJECT
Stormwater**

916100: Mawcrest Dr. – Pipe Improvement

Description: Upsize the storm drain pipe. Existing pipe is 1.5 ft diameter. Suggested replacement pipe is 2 ft diameter. This project is located in the Mawcrest Dr. basin. SDC project #JC-9.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	38,605
	SDC	40,183
Resources Total		78,788
Expenses	Design/Const Admi	15,943
	Construction	53,179
	Admin (14%)	9,666
Expenses Total		78,788

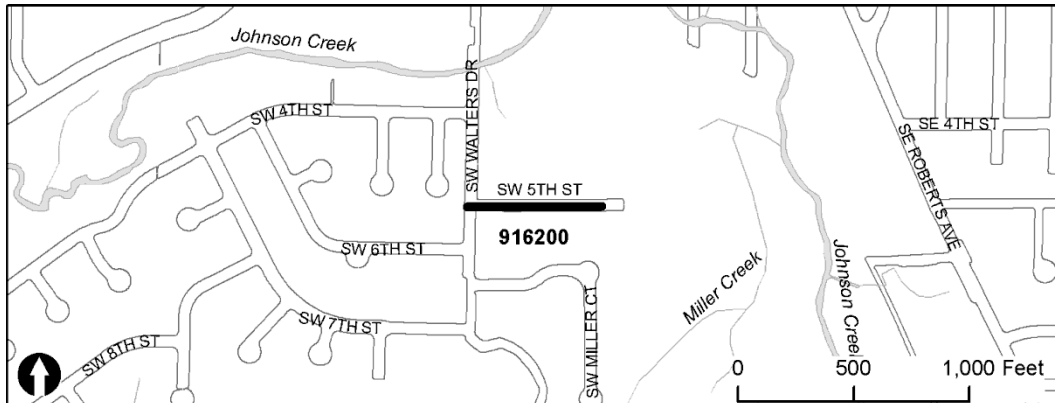
UNFUNDED and FUTURE PROJECT
Stormwater

916200: Miller Ct. – Pipe Improvement

Description: Upsize the storm drain pipe. Existing pipe is 1.5 ft diameter. Suggested replacement pipe is 1.75 ft diameter. This project is located in the Miller Ct. basin. SDC project #JC-10.

Justification: Eliminates surcharging in the storm drain system.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	110,461
	SDC	62,135
Resources Total		172,596
Expenses	Design/Const Admi	34,899
	Construction	116,481
	Admin (14%)	21,216
Expenses Total		172,596

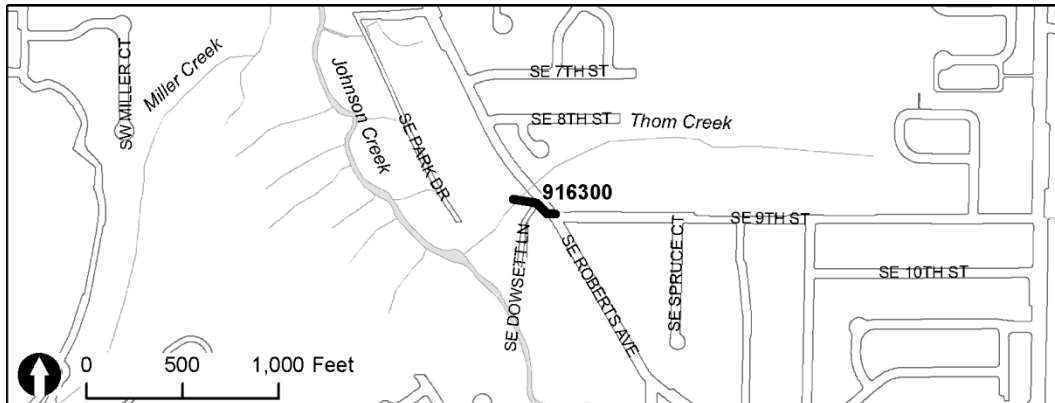
UNFUNDED and FUTURE PROJECT
Stormwater

916300: Morlan Ave – Pipe Improvement

Description: Upsize the 3 storm drain pipes. Existing pipe is 1 ft. Suggested replacement pipe is 2 ft. This project is located in the Morlan Ave. basin. SDC project #JC-11.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	49,391
	SDC	49,391
Resources Total		98,782
Expenses	Design/Const Admi	19,960
	Construction	66,645
	Admin (14%)	12,177
Expenses Total		98,782

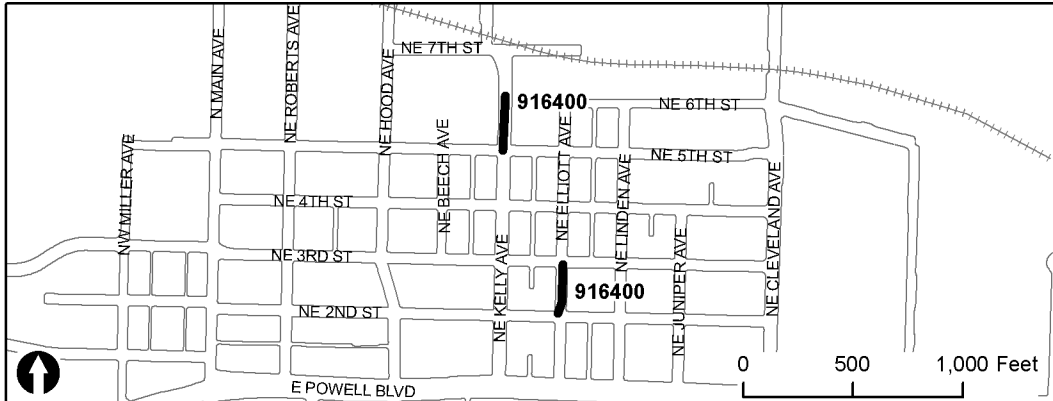
UNFUNDED and FUTURE PROJECT
Stormwater

916400: Powell Blvd East – Group 2 – Pipe Improvement

Description: Upsize the 2 storm drain pipes. Existing pipe size varies from 1 ft to 1.25 ft. (see Table 6.2). Suggested replacement pipe size varies from 1.5 ft to 1.75 ft (see Table 6.2). This project is located in the Powell East Blvd. basin.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	150,410
Resources Total		150,410
Expenses	Design/Const Admi	30,505
	Construction	101,451
	Admin (14%)	18,454
Expenses Total		150,410

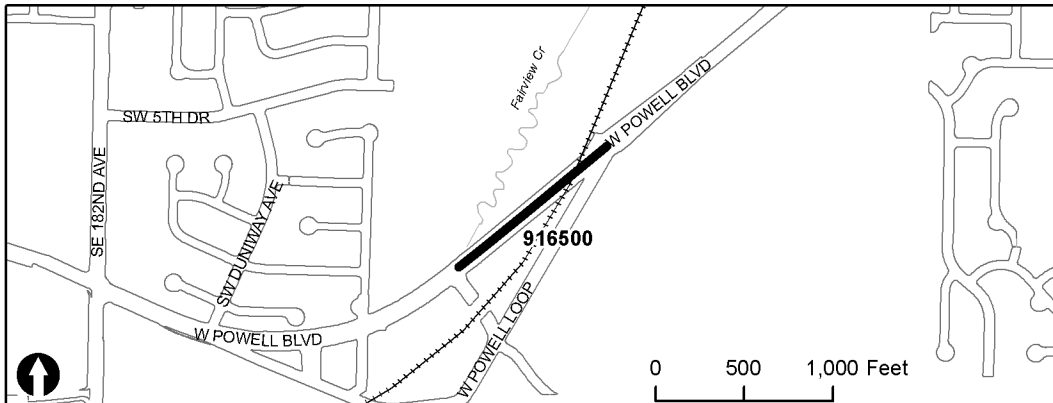
UNFUNDED and FUTURE PROJECT
Stormwater

916500: Powell Loop – Group 1 – Pipe Improvement

Description: Upsize the 4 storm drain pipes. Existing pipe sizes varies from 1.75 ft to 2 ft (see Table 6.2). Suggested replacement pipe varies from 2 ft to 2.5 ft (see Table 6.2). This project is located in the Powell Loop basin.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	372,274
Resources Total		372,274
Expenses	Design/Const Admi	75,322
	Construction	251,257
	Admin (14%)	45,695
Expenses Total		372,274

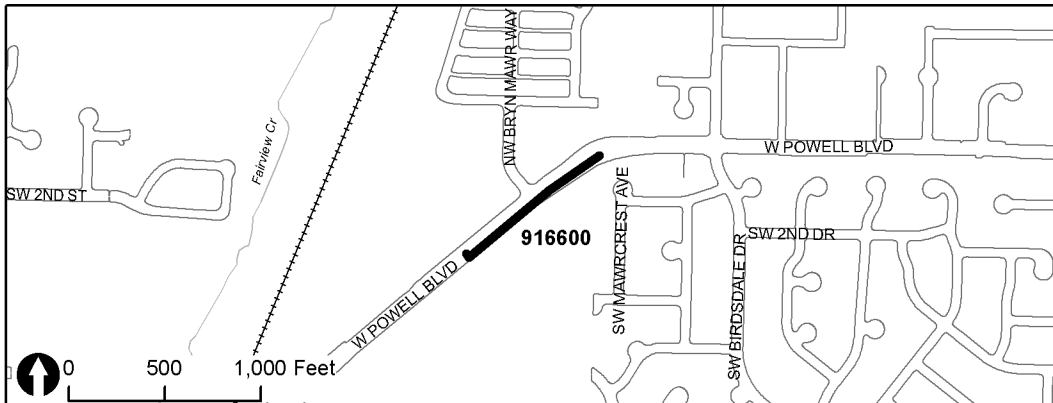
UNFUNDED and FUTURE PROJECT
Stormwater

916600: Powell Loop – Group 2 – Pipe Improvement

Description: Up size the 4 storm drain pipes. Existing pipe size varies from 1 ft to 1.25 ft (see Table 6.2). Suggested replacement pipe size varies from 1.5 ft to 2.5 ft (see Table 6.2). This project is located in the Powell Loop basin.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	270,369
Resources Total		270,369
Expenses	Design/Const Admi	54,734
	Construction	182,493
	Admin (14%)	33,142
Expenses Total		270,369

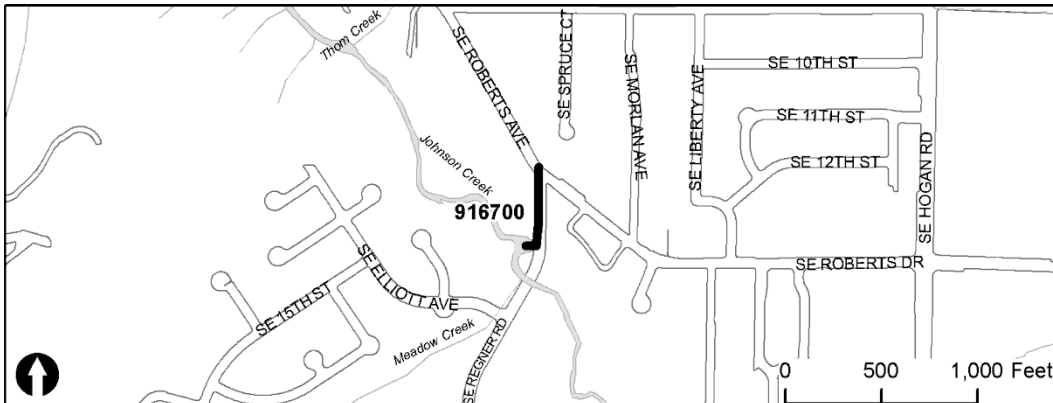
**UNFUNDED and FUTURE PROJECT
Stormwater**

916700: Roberts Drive - Pipe Improvement

Description: Upsize the 2 storm drain pipes. Existing pipe size is 1.25 ft. Suggested replacement pipe size varies from 1.75 ft to 6 ft. (see Table 6.2). This project is located in the Roberts Dr. basin. SDC project #JC-15.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	258,173
	SDC	7,135
Resources Total		265,308
Expenses	Design/Const Admi	53,729
	Construction	178,940
	Admin (14%)	32,639
Expenses Total		265,308

**UNFUNDED and FUTURE PROJECT
Stormwater**

916900: Towle Ave East - Group 1 - Pipe Improvement

Description: Upsize the 2 storm drain pipes. Existing pipe size is 1.25 ft. Suggested replacement pipe size is 2 ft. This project is located in the Towle Av. basin. SDC project #JC-16.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	71,074
	SDC	47,382
Resources Total		118,456
Expenses	Design/Const Admi	23,977
	Construction	79,917
	Admin (14%)	14,562
Expenses Total		118,456

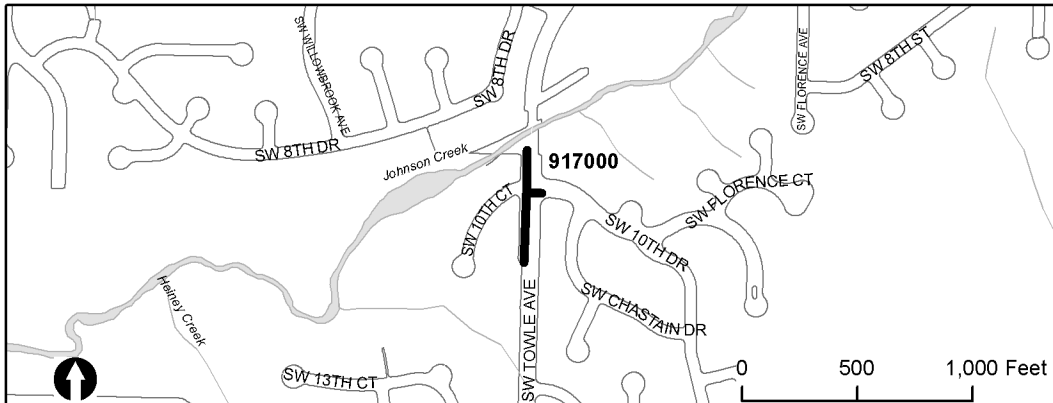
UNFUNDED and FUTURE PROJECT
Stormwater

917000: Towle Ave East - Group 2 - Pipe Improvement

Description: Upsize the 4 storm drain pipes. Existing pipe size varies from 1.25 ft to 1.75 ft (see Table 6.2). Suggested replacement pipe size varies from 3.5 ft to 5 ft (see Table 6.2). This project is located in the Towle Ave. east basin.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	360,064
Resources Total		360,064
Expenses	Design/Const Admi	72,937
	Construction	242,938
	Admin (14%)	44,189
Expenses Total		360,064

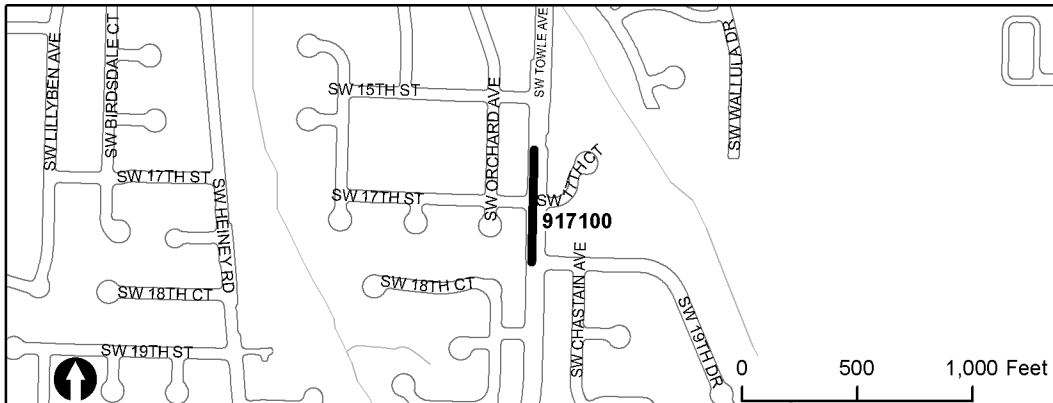
**UNFUNDED and FUTURE PROJECT
Stormwater**

917100: Towle Ave South - Pipe Improvement

Description: Upsize the 3 storm drain pipes. Existing pipe size is 1.5 ft. Suggested replacement pipe size varies from 1.75 ft to 3 ft. (see Table 6.2). This project is in the Towle Ave. south basin. SDC project #JC-18.

Justification: Eliminates surcharging in the storm drain system and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	72,129
	SDC	81,336
Resources Total		153,465
Expenses	Design/Const Admi	31,007
	Construction	103,628
	Admin (14%)	18,830
Expenses Total		153,465

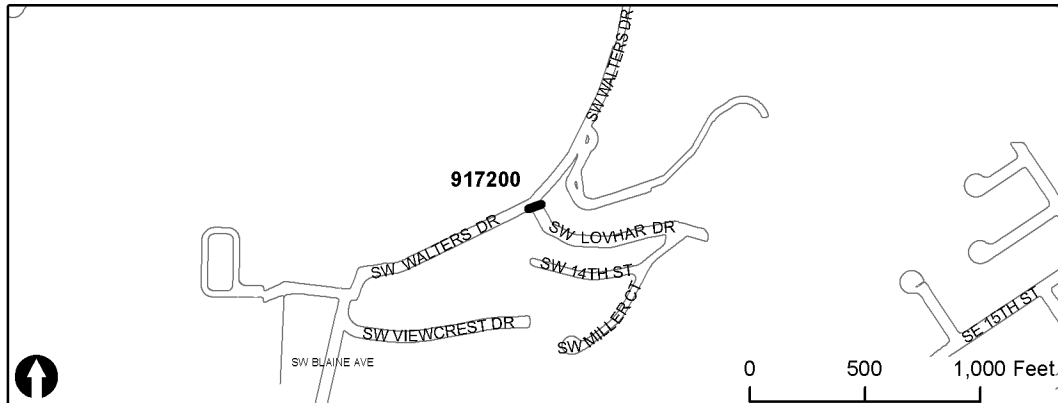
UNFUNDED and FUTURE PROJECT
Stormwater

917200: Walters Drive - Culvert Improvement

Description: Upsize the culvert. Existing pipe size is 1.5 ft diameter. Suggested replacement pipe size is 2.5 ft diameter. This project is located in the Walters Dr. basin. SDC project #JC-19.

Justification: Eliminates overtopping of the roadway and localized street flooding.

Type of Project: Design and construction of storm drain improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	35,859
	SDC	22,928
Resources Total		58,787
Expenses	Design/Const Admi	11,926
	Construction	39,580
	Admin (14%)	7,281
Expenses Total		58,787

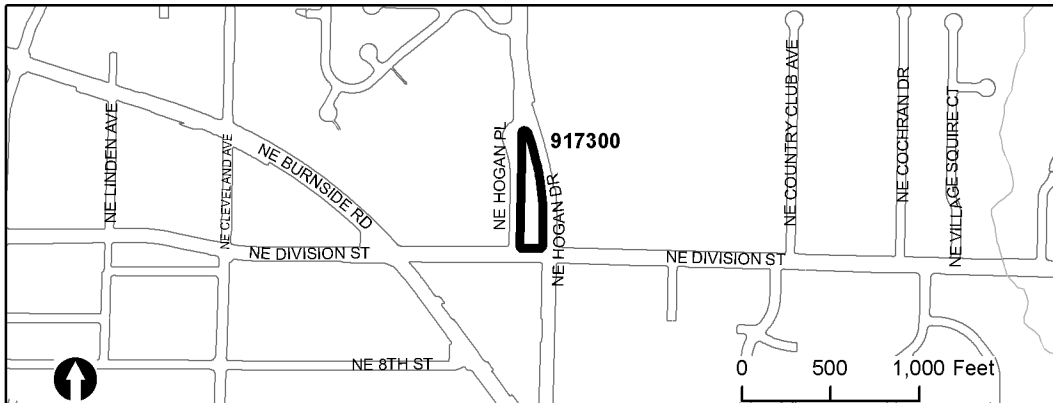
UNFUNDED and FUTURE PROJECT
Stormwater

917300: Hogan Place Regional PRF

Description: Construct a regional water quality treatment system (structural pollution reduction facility) in the vacant land between Hogan Drive and Hogan Place. This facility will treat both the dual 36" pipes draining north from Burnside Ave as well as the 30" pipe draining Division St. via a new diversion manhole and pipe. This facility will treat nearly the entire upper Burlingame basin, approximately 1000 acres of mainly residential and commercial lands. (KC-2)

Justification: There is very little water quality treatment being provided in the Burlingame Creek watershed and this facility would remove TSS and associated pollutants from the water quality flow event.

Type of Project: Design and construction of structural pollutant reduction facility.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	783,938
Resources Total		783,938
Expenses	Design/Const Admi	138,370
	Property Acq	65,000
	Construction	461,233
	Other	23,062
	Admin (14%)	96,273
Expenses Total		783,938

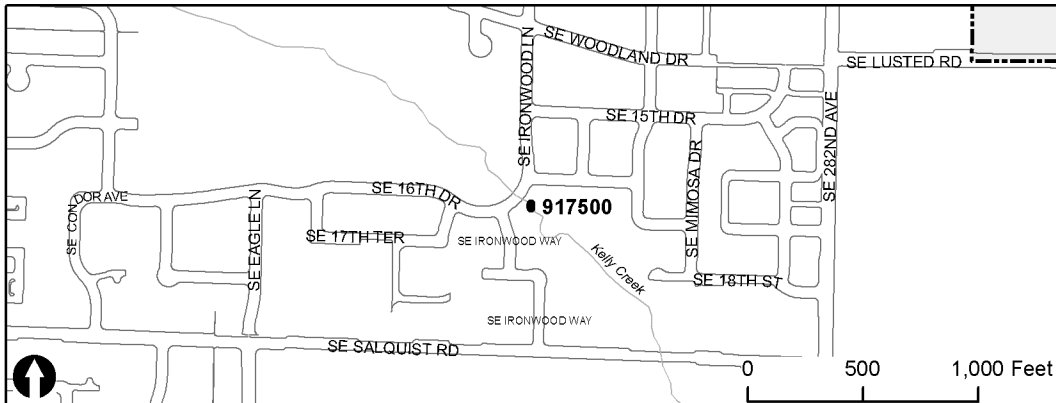
UNFUNDED and FUTURE PROJECT
Stormwater

917500: Ironwood Access Road Culvert Removal

Description: Remove the existing CMP culvert beneath the cities access road and restore the channel. The stream improvements consist of reshaping the channel, laying back the slope to 3:1 and adding woody debris. Removal of invasive species and replanting with natives is suggested. SDC project #KC-8.

Justification: Eliminates a failing and unnecessary culvert and reduces upstream flood levels.

Type of Project: Design and construction of culvert removal / channel improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	132,876
	SDC	5,537
Resources Total		138,413
Expenses	Design/Const Admi	26,990
	Construction	94,476
	Admin (14%)	16,947
Expenses Total		138,413

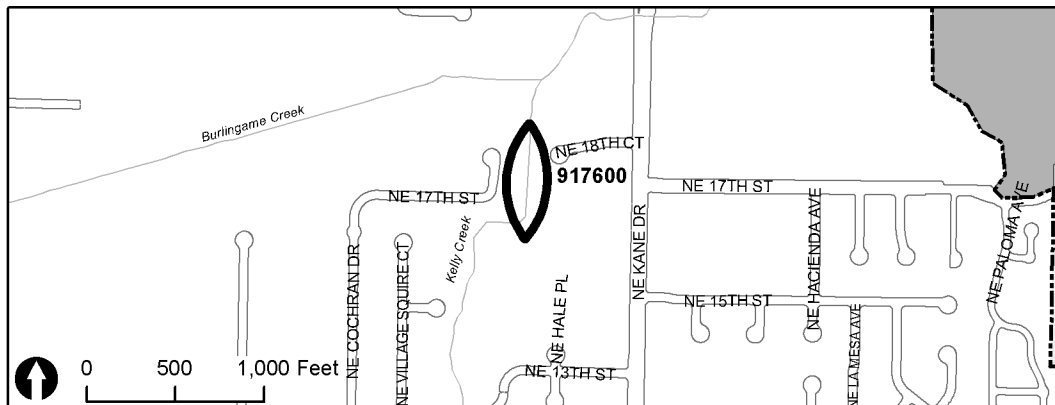
UNFUNDED and FUTURE PROJECT
Stormwater

917600: NE Hale Place Bank Stabilization

Description: Remove ineffective bank stabilization project. Re-establish channel geometry (bank, in particular) and multi-story vegetated riparian community. Relocate stormwater outfall below outside meander bank. Obtain necessary authorization(s) for in-stream work from regulatory agencies (i.e., US Army Corp of Engineers, Oregon Department of State Lands). SDC project #KC-4.

Justification: A private party installed a stormwater outfall and rip-rip apron on an outside meander bank. The outfall was installed higher than accepted engineering standards. Adverse bank erosion processes are affecting down stream properties. This project is just downstream of the proposed SE 17th Street project, which includes similar implementation elements. As such, if the City pursues this and the NE 17th Street projects, early coordination is recommended to maximize cost efficiencies such as mobilization, equipment operation, material hauling.

Type of Project: Design and construction of creek bank, channel geometry and riparian vegetation corridor improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	139,731
	SDC	5,822
Resources Total		145,553
Expenses	Design/Const Admi	6,277
	Construction	121,450
	Admin (14%)	17,826
Expenses Total		145,553

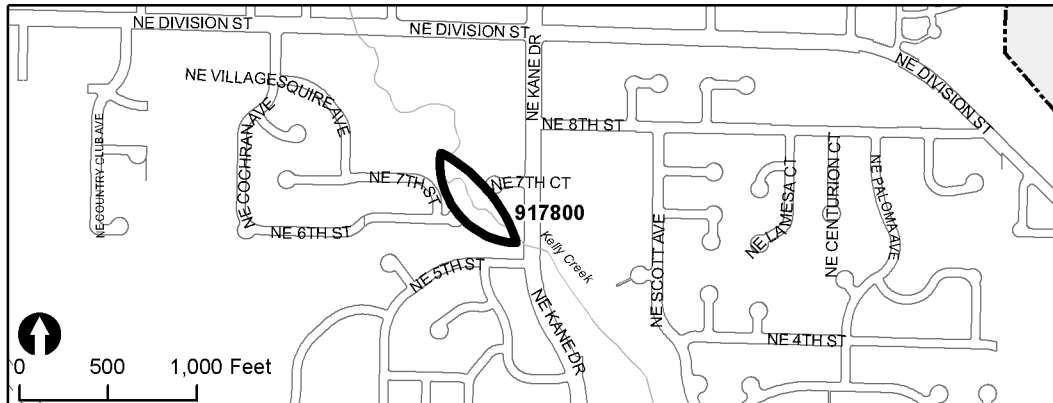
UNFUNDED and FUTURE PROJECT
Stormwater

917800: NE 7th Ct. Channel Modification

Description: Relocate Kelly Creek's channel to alleviate the persistent bank instability point to upstream basin-wide land use changes. Establish multi-story vegetated riparian community. Obtain necessary authorization(s) for in-stream work from regulatory agencies (i.e., USACE, DSL). SDC project #KC-9.

Justification: Private party constructed an inadequate retaining wall on city-and privately owned property to address localized bank instability associated with a multi-unit residence constructed near an outside meander bank. Said wall partially failed during Spring 2005. Current channel location, in conjunction with seasonal and storm event flows, will continue to compromise the wall's stability and residence's long-term structural integrity. The retaining wall was repaired in fall 2005; however, said efforts are temporary. The city-owned parcel adjacent to the west provides sufficient acreage to re-route the channel towards and undeveloped, blackberry dominated reach and alleviate current and future channel instability points.

Type of Project: Design and construction of channel geometry and riparian vegetation corridor improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	132,733
	SDC	5,531
Resources Total		138,264
Expenses	Design/Const Admi	25,986
	Construction	95,331
	Admin (14%)	16,947
Expenses Total		138,264

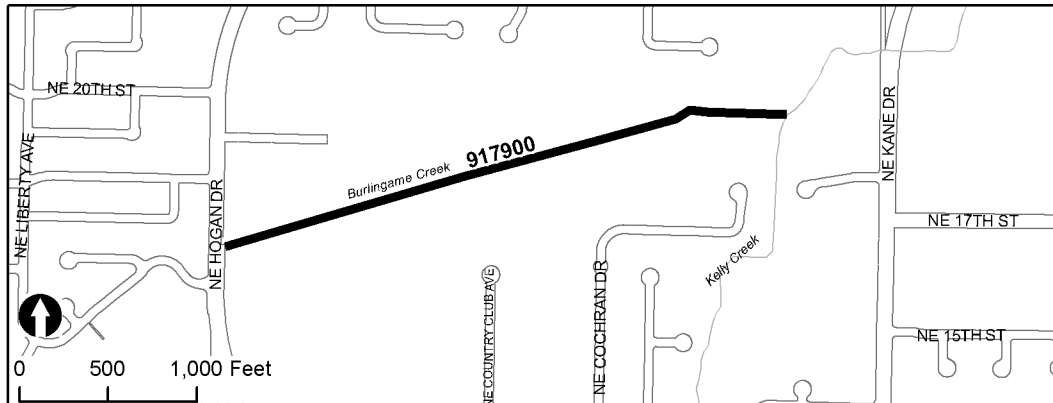
UNFUNDED and FUTURE PROJECT
Stormwater

917900: Riparian Enhancements near Gr. Golf Course

Description: Improve riparian corridor's structural diversity to increase stream bank shading and reduce Burlingame Creek temperatures. (KCN-7)

Justification: Burlingame Creek is water quality limited for temperature and E. coli per the Department of Environmental Quality's (DEQ) 303(d) list. This portion of Burlingame Creek supports limited woody riparian vegetation and typically slow-moving flows. Although base flow data is not currently available, velocities observed during late summer indicate that established riparian plantings (particularly along the south bank) would significantly reduce water temperatures before its confluence with Kelly Creek. Additionally, per conversations with City staff, course owners are supportive of a riparian enhancement project, as long as the course's playable areas are not affected. As such Burlingame Creek's location within the course layout should provide sufficient acreage for project implementation. The plantings would also contribute to long-term bank stability. Additionally, this project directly addresses the DEQ temperature mandate.

Type of Project: Design and construction of riparian vegetation corridor and water quality improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	154,851
Resources Total		154,851
Expenses	Design/Const Admin	1,778
	Property Acq	120,000
	Construction	5,928
	Other	8,128
	Admin (14%)	19,017
Expenses Total		154,851

UNFUNDED and FUTURE PROJECT
Stormwater

918100: Highway 26 Ecology Embankment

Description: Construct an ecology embankment on the east and west sides of Highway 26. This facility will treat runoff from the highway and water a surrounding right-of-way. (KC-1)

Justification: There is very little water quality treatment being provided in this area of the basin and this facility would remove TSS and other pollutants associated with heavy traffic.

Type of Project: Design and construction of water quality improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	664,633
Resources Total		664,633
Expenses	Design/Const Admin	129,558
	Construction	431,860
	Other	21,593
	Admin (14%)	81,622
Expenses Total		664,633

UNFUNDED and FUTURE PROJECT
Stormwater

918200: Vista Way PRF

Description: Construct a regional water quality treatment system (structural pollution reduction facility) at Vista Way and Hogan Dr. This facility will treat mainly residential lands that drain into Burlingame Creek. SDC project #KC-1.

Justification: There is very little water quality treatment being provided in the Kelly Creek watershed and this facility would remove TSS and associated pollutants from the water quality flow event

Type of Project: Design and construction of water quality improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	155,787
	SDC	6,493
Resources Total		162,280
Expenses	Design/Const Admi	31,635
	Construction	105,538
	Other	5,147
	Admin (14%)	19,960
Expenses Total		162,280

UNFUNDED and FUTURE PROJECT
Stormwater

918300: 23rd Ave and Hale Street PRF

Description: Install a PRF at 23rd Street and Hale to prevent untreated stormwater runoff from entering Kelly Creek. (KC-4)

Justification: There is very little water quality treatment being provided in the this and this facility would remove TSS and associated pollutants from the water quality flow event from entering the creek.

Type of Project: Design and construction of water quality improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	151,597
Resources Total		151,597
Expenses	Design/Const Admin	29,551
	Construction	98,504
	Other	4,925
	Admin (14%)	18,617
Expenses Total		151,597

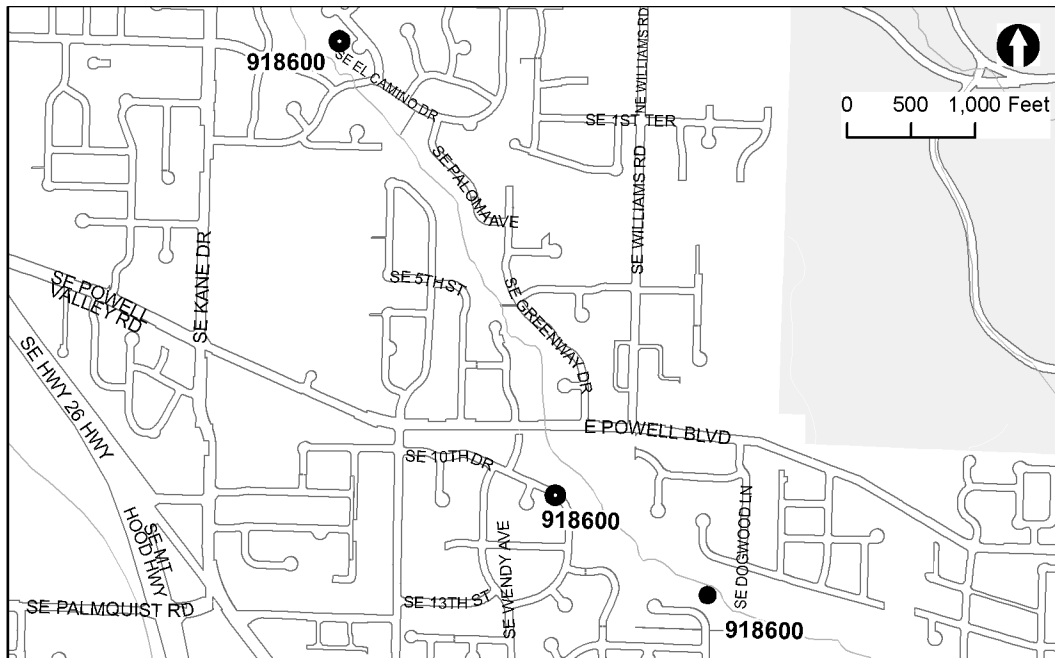
**UNFUNDED and FUTURE PROJECT
Stormwater**

918600: Major Outfall Rehabilitation (NE Scott, SW Condor, SE Laura)

Description: SE Condor - Remove riprap in channel also cut back pipe and replace outfall: 3557-k-603. At SE Laura Ln. - Cut back pipe and install riprap apron: 3557-k-108. At NE Scott - Cut back pipe and install riprap apron and install 200' swale. SDC project #KC-3.

Justification: Eliminates surcharging in the storm drain system and localized street and property flooding.

Type of Project: Design and construction of storm drain and outfall improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	137,117
	SDC	2,799
Resources Total		139,916
Expenses	Design/Const Admi	27,241
	Construction	90,958
	Other	4,519
	Admin (14%)	17,198
Expenses Total		139,916

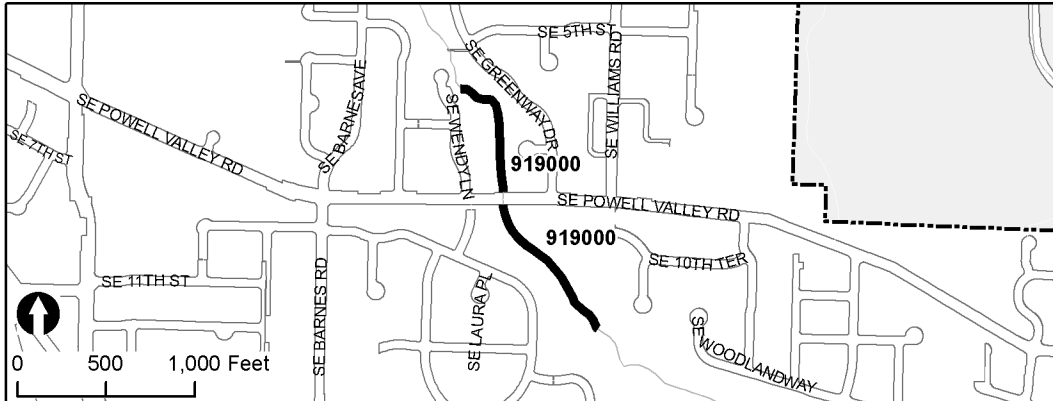
UNFUNDED and FUTURE PROJECT
Stormwater

919000: SE Powell Valley Road

Description: Remove invasive species and replace with native riparian vegetation. SDC project #KC-6.

Justification: Improve habitat quality, bank stability, and enhance aesthetics.

Type of Project: Invasive species removal.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	200,172
	SDC	8,341
Resources Total		208,513
Expenses	Design/Const Admi	42,180
	Construction	140,724
	Admin (14%)	25,609
Expenses Total		208,513

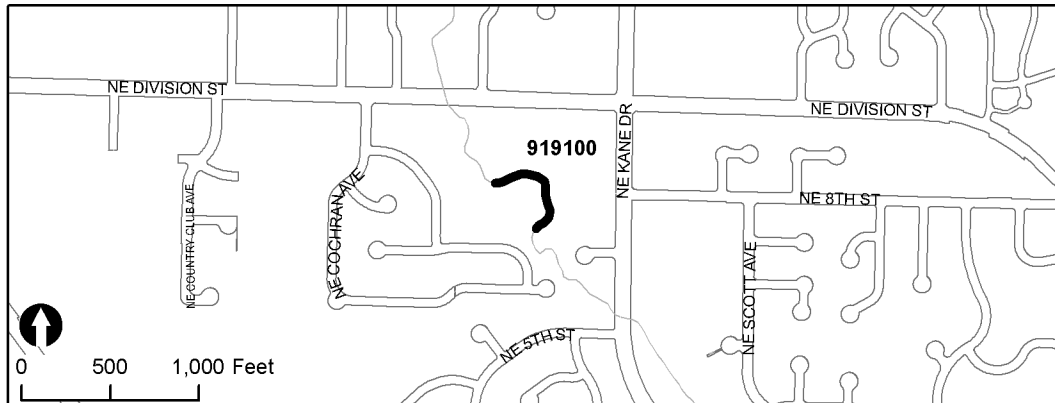
UNFUNDED and FUTURE PROJECT
Stormwater

919100: Bell Acres Trailer Park

Description: Reestablish a natural, stable stream condition through this reach of Kelly Creek. Existing channel is highly down-cut with near vertical unstable stream banks. Actively plant with native riparian vegetation. SDC project #KC-7.

Justification: Improve bank stability, habitat quality, and aesthetics.

Type of Project: Design and construction of stream corridor enhancement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	1,136,162
	SDC	47,341
Resources Total		1,183,503
Expenses	Design/Const Admi	80,971
	Property Acq	251,072
	Construction	706,089
	Admin (14%)	145,371
Expenses Total		1,183,503

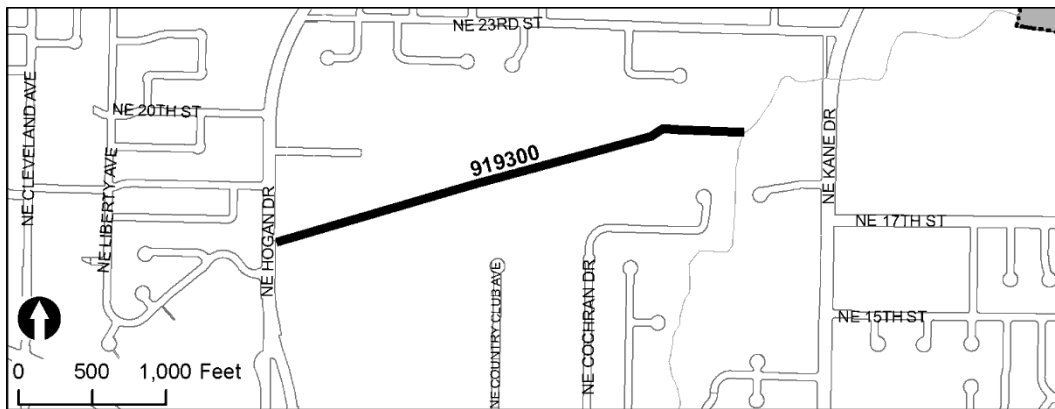
UNFUNDED and FUTURE PROJECT
Stormwater

919300: Gresham Golf Course Creek Meandering

Description: Reestablish representative natural channel morphology by constructing/grading a new channel alignment and cross-section. Enhance riparian vegetation with diverse plantings. Channel complexity will also be improved upon through the placement of woody debris. (KCN-8)

Justification: Burlingame Creek is water quality limited for temperature and E. coli per the Department of Environmental Quality's (DEQ) 303(d) list. This portion of Burlingame Creek supports limited woody riparian vegetation and typically slow-moving flows. Although base flow data is not currently available, velocities observed during late summer indicate that established riparian plantings (particularly along the south bank) would significantly reduce water temperatures before its confluence with Kelly Creek. Additionally, per conversations with City staff, course owners are supportive of a riparian enhancement project, as long as the course's playable areas are not affected. Burlingame Creek's location within the course layout should provide sufficient acreage for project implementation. The plantings would also contribute to long-term bank stability. This project also directly addresses the DEQ temperature mandate.

Type of Project: Design and construction of stream corridor enhancement, water quality improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	557,374
Resources Total		557,374
Expenses	Design/Const Admin	40,484
	Property Acq	300,000
	Construction	134,946
	Other	13,495
	Admin (14%)	68,449
Expenses Total		557,374

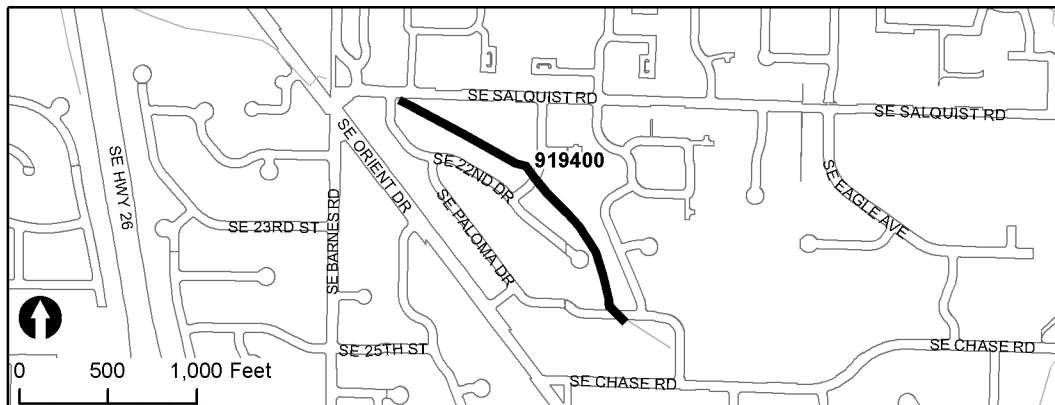
UNFUNDED and FUTURE PROJECT
Stormwater

919400: SE 24th Street to SE Salquist Road

Description: Regrade the existing channel to emphasize flood protection and bank stability. SDC project #KC-5.

Justification: Overbank flooding is occurring and the channel morphology is compromised. There is little riparian vegetation and structural diversity.

Type of Project: Design and construction of stream corridor enhancement, water quality improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	326,330
	SDC	13,598
Resources Total		339,928
Expenses	Design/Const Admi	54,470
	Property Acq	56,491
	Construction	187,163
	Admin (14%)	41,804
Expenses Total		339,928

UNFUNDED and FUTURE PROJECT
Stormwater

919500: Johnson Creek Restoration at Main City Park

Description: This project addresses degraded stream bank and channel conditions along the stretch of Johnson Creek that meanders through Main City Park. Channel dredging in the side channel, removal of a grade control structure, and installation of bendway weirs/large wood will provide fish habitat and reduce velocities in the main channel during storm events. Bank erosion will be addressed by installation of bio-engineered structures, removal of invasive weeds, and installation of native vegetation throughout the entire stretch.

Justification: Johnson Creek provides stormwater conveyance for the City of Gresham, and is designated critical habitat for ESA-listed salmon. Stream bank erosion and sediment accumulation have changed the nature of this reach, leading to continuing loss of: bank, riparian trees, and fish habitat. This project is also part of the City's response to the Clean Water Act requirements to improve water quality parameters (such as temperature, nutrients, and sediment). It will be conducted in conjunction with implementation of Phase II of the Main City Park master plan.

Type of Project: Design and construction of stream corridor enhancement.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	179,556
Resources Total		179,556
Expenses	Design/Const Admin	47,618
	Construction	109,887
	Admin (14%)	22,051
Expenses Total		179,556

UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00014: Johnson Creek Stormwater LID Retrofit

Description: This project modifies an existing conveyance system with a functional LID retrofit. Project includes design, permitting, and construction of a site-specific treatment facility intended to introduce treatment in a catchment area where minimal water quality mechanisms currently exist.

Justification: The Johnson Creek watershed is a high value target for strategic LID retrofits both for its relative lack of treatment facilities and the criticality of the downstream habitat conditions. This project leverages potential SRF opportunities and City-owned property.

Type of Project: Design and construction of facilities to improve water quality and quantity, and to correct deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Debt-Operating	702,000
Resources Total		702,000
Expenses	Design/Const Admi	50,000
	Construction	565,800
	Admin (14%)	86,200
Expenses Total		702,000

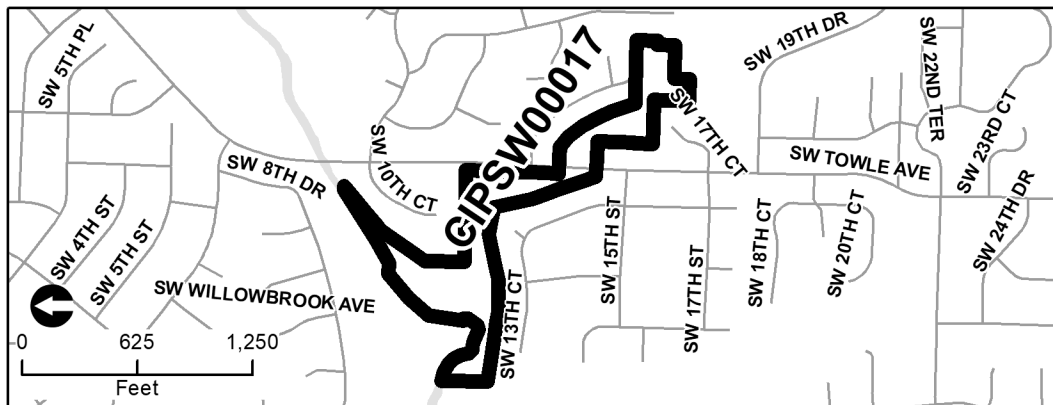
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00017: Chastain Creek Improvements and Fill Remediation

Description: This effort will remove the relic landfill overburden placed in the 1950s-60s over a failing stormwater pipe that conveys butte-generated spring flow and introduced stormwater to a stormwater collection point in Towle. The project also improves water quality treatment while aggregating stormwater flows into the piped infrastructure and aggregates natural butte drainage into the historic Chastain Creek tributary to its confluence with Johnson Creek. Effort includes fate and transport of landfill materials, improvement of critical fish habitat, resolution of a past fill violation, bank stabilization, and improved riparian conditions. Project will require water, soil, and air quality testing, title research, and purchase of easement rights.

Justification: The City is currently without any feasible mechanism to respond to inevitable pipe failure in the project area given the landfill materials currently above the stormwater infrastructure. The site generates frequent nuisance flooding and an associated high water traffic hazard on a major arterial. Landfill leachate and untreated stormwater currently discharge to Johnson Creek while clean butte discharge is directed into the stormwater system.

Type of Project: Design and construction of solid waste (landfill and associate pollutants) removal, stormwater infrastructure improvements, nuisance flood resolution, illegal fill resolution, stream stabilization, and critical habitat improvement.



Estimated Dollars:

Funds	Description	Total
Resources	Debt-Operating	5,500,000
	Operating	2,000,000
Resources Total		7,500,000
Expenses	Design/Const Admi	1,050,000
	Construction	5,529,000
	Admin (14%)	921,000
Expenses Total		7,500,000

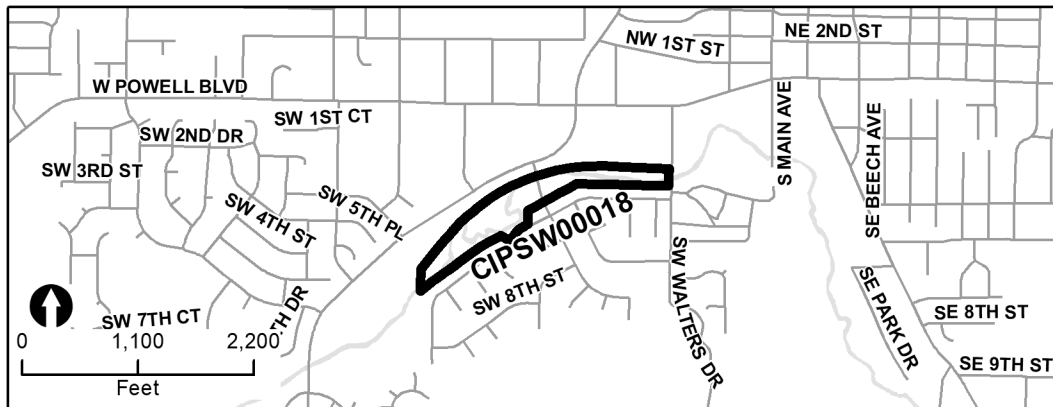
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00018: SW 7th Street: Johnson Creek Corridor Improvements

Description: An incised Johnson Creek, constrained by SW 4th Avenue, the Springwater Trail and the SW 7th Street bridge, flows through a 16-acre public parcel in this project area. Ongoing bank erosion near SW 4th and the Springwater Trail will be alleviated by constructing stream structure improvements and reconnecting the floodplain. Footing scour under the 7th Street will be addressed in cooperation with the Transportation Division, included consolidated permitting to cover both projects, and with stream, habitat, and floodplain improvements provided by this project serving as the mitigation for impacts related to rebuilding the pile caps on the bridge footings. Bridge related construction costs to be reflected in the funded Transportation CIP on a parallel schedule with this effort. Water quality improvements for the adjacent arterials and neighborhood will also be included.

Justification: The Road and trail infrastructure constraints have reduced stream complexity in this reach resulting in higher velocities, erosive flows, and loss of flood storage and other floodplain functions along a critical habitat stream. This poses an ongoing risk to road bed and trail bed support. The project provides an opportunity to collaborate with Transportation on the bridge element, reducing costs for the City compared to addressing the stream and floodplain improvements separately from the transportation infrastructure components.

Type of Project: Design and construction of infrastructure protection coupled with stream, critical fish habitat, floodplain, and water quality improvements.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	1,995,978
	SDC	587,052
Resources Total		2,583,030
Expenses	Design/Const Admi	361,624
	Construction	1,904,280
	Admin (14%)	317,126
Expenses Total		2,583,030

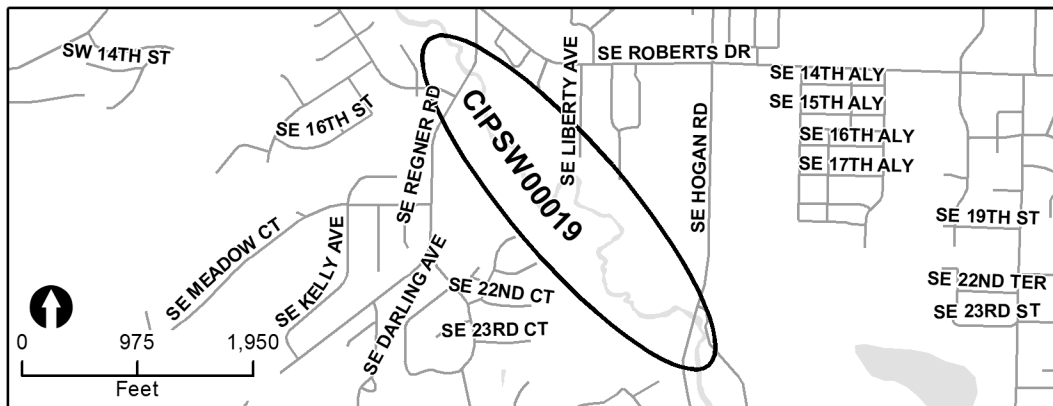
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00019: SE Hogan to Regner: Johnson Creek Corridor Improvements

Description: An incised Johnson Creek, constrained by the Springwater Trail, tiled stream banks and a small once-private drive bridge, flows through a 41 acres of public lands in this project area. The project will reconnect the floodplain, alleviating erosive pressure that is undermining the support for the Springwater Trail, and will remove a small wooden bridge and gravel road, resulting in an improved stream, floodplain, and riparian conditions, and will stabilize the Springwater Trail and associated infrastructure. The project addresses imminent bank failure at the end of SE Liberty Avenue where a convergence of stormwater outfalls has resulted in major bank movement. The project also improves the Cedar Creek/Johnson Creek confluence area.

Justification: Urban development and the old railroad bed below the Springwater Trail have constrained Johnson Creek and reduced stream complexity in this reach resulting in higher velocities, erosive flows, and loss of flood storage and other floodplain functions along a critical habitat stream. This poses an ongoing risk to the Springwater Trail and associated infrastructure. The project will help fulfill the City's Temperature TMDL obligations. Potential for addressing other water quality improvement obligations will be assessed during the design stage of the project.

Type of Project: Design and construction of infrastructure protection coupled with stream, critical fish habitat, floodplain, and water quality improvements.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	1,005,033
	SDC	250,084
Resources Total		1,255,117
Expenses	Design/Const Admi	175,646
	Construction	925,311
	Admin (14%)	154,160
Expenses Total		1,255,117

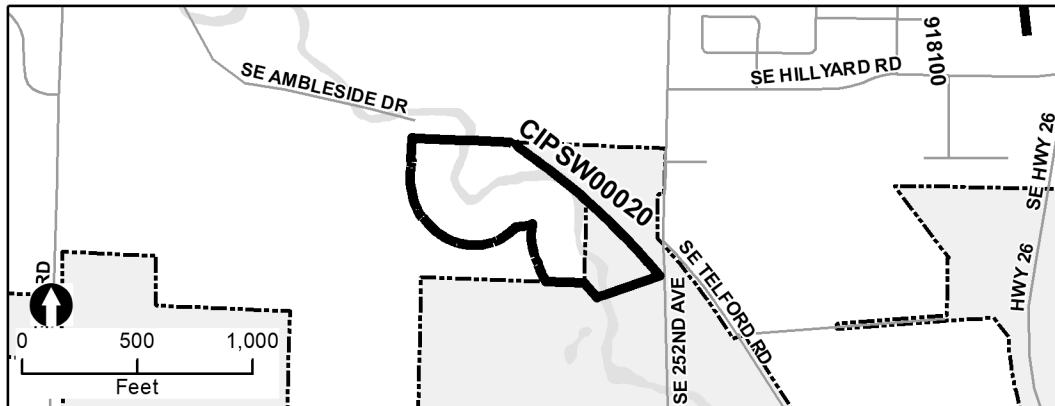
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00020: SE 252nd Avenue: Johnson Creek Corridor Improvements

Description: Johnson Creek has incised significantly in this privately owned reach where the critical habitat creek has significantly impinged on a large section of the Springwater Trail where City of Gresham installed temporary stabilization measures in 2007. Ongoing active bank failure adjacent to the temporary fix is further jeopardizing the Springwater Trail and associated infrastructure. This project will reconnect the stream to the floodplain on the south bank to alleviate the high velocity and erosive forces on the north bank. This will greatly improve critical habitat for salmonids, improve flood storage and floodplain function, and assist the city in meeting state/federal Temperature TMDL obligations for Johnson Creek.

Justification: Trail infrastructure constraints have reduced stream complexity in this reach resulting in higher velocities, erosive flows, and loss of flood storage and other floodplain functions along a critical habitat stream. This poses an ongoing risk to the Springwater Trail and associated infrastructure, including key wastewater infrastructure within the Springwater Trail alignment.

Type of Project: Design and construction of infrastructure protection coupled with stream, critical fish habitat, floodplain, and water quality improvements.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	217,209
	SDC	500,168
Resources Total		717,377
Expenses	Design/Const Admi	100,386
	Construction	528,933
	Admin (14%)	88,058
Expenses Total		717,377

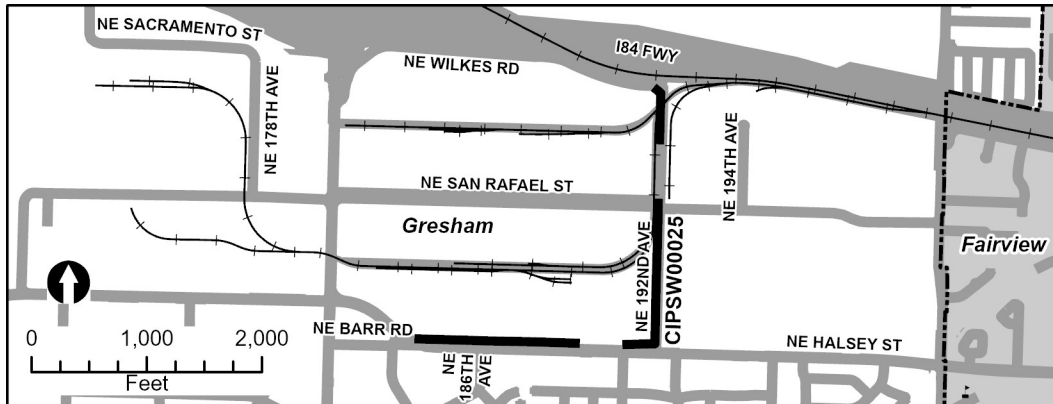
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00025: NE Halsey Street Pipe Improvements

Description: This project includes replacing three segments of the piped storm system: Segment 1, along NE Halsey Street (approximately 1,400 LF), and Segments 2 and 3, along NE 192nd Avenue (approximately 2,000 LF). Along NE Halsey the existing pipes range in diameter from 2.25' to 3.5', while Segment 2 pipes are 2.25', and Segment 3 pipes are 4' in diameter. 14 manholes will likely have to be replaced throughout this stretch of proposed pipes, as currently available GIS information lists manholes as 48" diameter and larger diameter manholes would be needed. An alternatives evaluation included considering including a water quality/infiltration facility in Kirk Park and whether this could reduce the need for pipe replacements. This alternative is described in the CIP fact sheet for WG-2-C-WQ. Master plan project WG-2-C. SDC Project #WG-2.

Justification: The main drainage line along NE Halsey Street is undersized and the City has reported flooding at this location. This location has been flagged in previous drainage master plans and a previous version of this project is in the adopted CIP for fiscal years 2019-2023, listed as "Unfunded and Future Project 912200", which has since been replaced with this CIP.

Type of Project: Design and construction of facilities related to growth and to correct deficiencies. Implementation would include either CIP WG-2-C or CIP WG-2-C-WQ.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	3,077,254
	SDC	1,382,534
Resources Total		4,459,788
Expenses	Design/Const Admi	445,979
	Construction	3,466,067
	Admin (14%)	547,742
Expenses Total		4,459,788

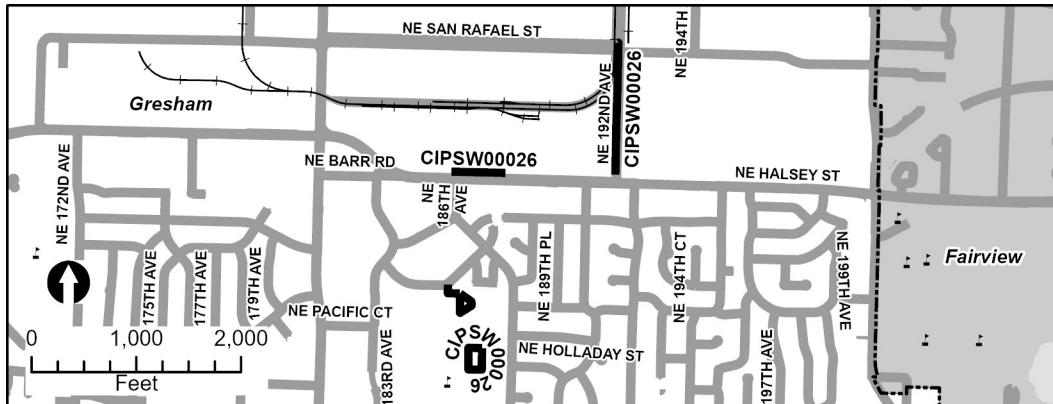
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00026: Halsey Capacity Improvements and Water Quality Facility

Description: This project includes the installation of two water quality/infiltration basins on the properties of Kirk Park and Hartley Elementary School. An infiltration rate of 2"/hr was assumed for this facility. CIP WG-2-C was then resized to take into account the benefits of this facility in reducing flows. Two areas were identified as the potential locations for the water quality/infiltration facilities, and if implemented together could provide a storage area of approximately 0.9 acres. Approximately 1,600 LF of pipe are planned to be replaced with this CIP. Implementation of only one or the other of these two CIP's is recommended. Master plan project WG-2-C-WQ. SDC Project #WG-2.

Justification: Initial analysis of the system showed the need for significant pipe upsizing, and so an analysis of the system assuming an upstream infiltrating water quality facility was conducted to estimate whether any of the pipe upgrade needs identified in CIP WG-2-C could be reduced or eliminated.

Type of Project: Design and construction of water quality infiltration facilities and upsized pipe to correct deficiencies and provide a significant amount of storage to drainage basin. Implementation would include either CIP WG-2-C or CIP WG-2-C-WQ.



Estimated Dollars:	Funds	Description	Total
	Resources	Operating	1,578,628
		SDC	709,239
	Resources Total		2,287,867
	Expenses	Design/Const Admi	228,787
		Construction	1,778,117
		Admin (14%)	280,963
	Expenses Total		2,287,867

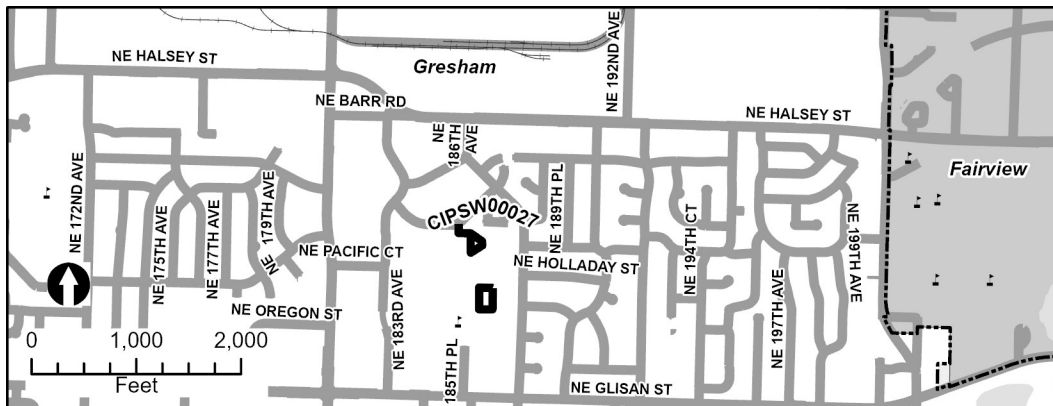
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00027: NE Kirk Park Water Quality Facility

Description: This project recommends placing several water quality facilities on the properties of Kirk Park and Hartley Elementary School. Four areas were identified as potential locations for a facility, and if implemented together could provide a storage area of approximately 1.8 acres. Master plan project WG-2-WQ.

Justification: Kirk Park and Hartley Elementary school were identified as possible locations for storage/detention facilities to alleviate flows and eliminate expected flooding in pipes along NE Halsey. Upon analysis of this system, flood detention alone was not found to be sufficient to eliminate the need for pipe replacements, but this site does offer an opportunity to address water quality. Proposed here are two sites for treating the water quality event. If water quality facilities could also infiltrate, some flow alleviation would be also be provided.

Type of Project: Design and construction of large water quality/storage facilities to add water quality mitigation to area currently lacking treatment.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	666,000
Resources Total		666,000
Expenses	Design/Const Admi	66,600
	Construction	517,600
	Admin (14%)	81,800
Expenses Total		666,000

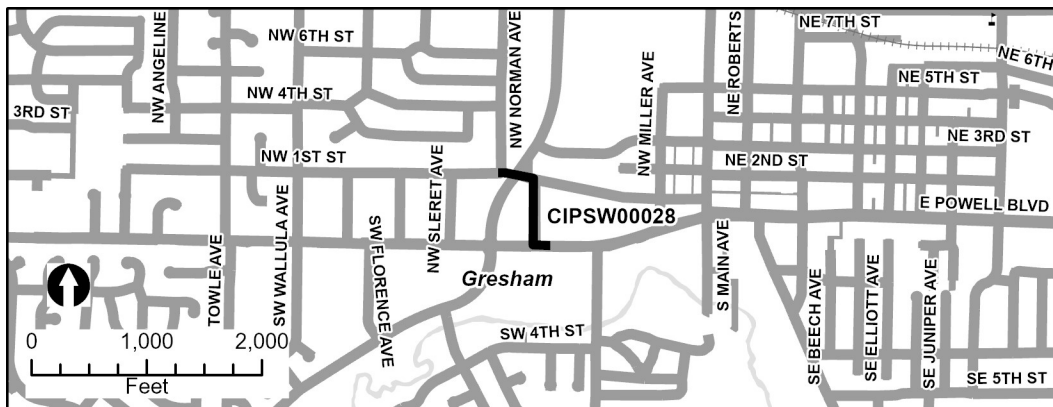
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00028: NW 1st Street/Ava Avenue Pipe Improvements

Description: The existing 12" and 15" lateral pipes along NW 1st St. and Ava Ave. and the existing 18" main pipe along Powell Blvd. will be replaced with approximately 1,040 LF of 24" HDPE pipes. The proposed alignment will follow the existing piping, but with lower pipe invert elevations along NW 1st St. to improve hydraulics and comply with current Public Works Pipe Cover Standards (minimum 30" from the top of pipe to finished grade in paved areas). A new manhole is proposed along Ava Ave to comply with Public Works manhole spacing requirements (maximum 500 ft.). The new 24" piping will tie into the existing stormwater main line along Powell Blvd. at two existing manholes. This new pipe system is proposed to alleviate pipe surcharging and surface flooding during the 10-yr design storm. The existing piping is to be removed to allow space for the replacement piping along the alignment. Master plan project JC-1-C. SDC Project #JC-2.

Justification: The segment of stormwater piping along NW 1st St. and Ava Ave. is undersized and causes flooding at the northern catch basin located at the intersection of NW 1st St. and Ava Ave. Historically this catch basin has overflowed and caused street flooding along 1st St. prior to draining into the adjacent catch basin to the south. The current pipe system in this area is old and contains minimal pipe cover.

Type of Project: Design and construction to replace existing pipes with larger diameter pipes to add capacity to the conveyance system. Lower pipe inverts to comply with current PWS cover requirements.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	128,901
	SDC	657,877
Resources Total		786,778
Expenses	Design/Const Admi	78,678
	Construction	611,513
	Admin (14%)	96,587
Expenses Total		786,778

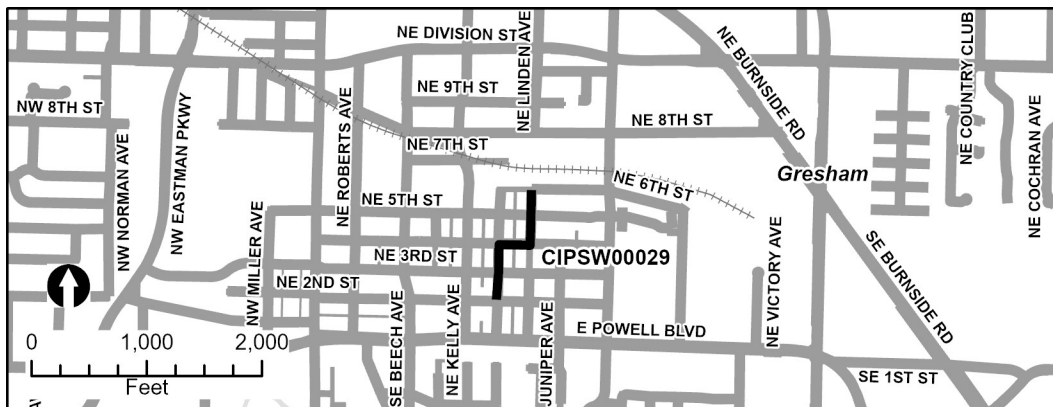
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00029: Elliot Avenue Pipe Improvements

Description: New stormwater infrastructure is proposed along the Linden Ave. right-of-way to convey stormwater to the south and away from the observed flooding area. Approximately 480 LF of 24" HDPE pipe will connect the existing manhole on 6th St. to a proposed manhole at the intersection of Linden Ave and 4th St. Existing 12" and 18" piping along 4th St and Elliot Ave. is proposed for replacement with approximately 770 LF of new 24" HDPE pipe. This pipe replacement will help to alleviate predicted surcharging during the 10-year storm event for the existing pipe segment. The replacement piping along Elliot Ave. reconnects with existing infrastructure at manhole at the intersection of 2nd St. before discharging to the south to Johnson Creek. This project also includes the replacement of the existing inlet structure at 5th and Elliot to help alleviate current debris accumulation issues. Master plan project JC-11-C.

Justification: This area along 6th St. has a history of surface flooding due to debris accumulation at inlets and outfalls adjacent to the industrial and commercial properties along 6th St. This location currently has a combination of public and private infrastructure, with unclear drainage patterns.

Type of Project: Replace existing pipes with larger diameter pipes to add capacity to the conveyance system.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	863,000
Resources Total		863,000
Expenses	Design/Const Admi	86,300
	Construction	670,700
	Admin (14%)	106,000
Expenses Total		863,000

CIPSW00030: Elliot Avenue Green Street

Justification: This area has a history of surface flooding, caused by debris accumulation at inlets and outfalls to the north. A water quality opportunity exists in this area to provide stormwater treatment to runoff that currently does not receive any treatment prior to discharge to Johnson Creek.

Map of Gresham, Oregon, showing the location of the CIPSW00030 site. The map includes major streets like NE Division St, NE 9th St, NE 8th St, NE 7th St, NE 6th St, NE 5th St, NE 4th St, NE 3rd St, NE 2nd St, NE 1st St, NW Division St, NW 9th St, NW 8th St, NW 7th St, NW 6th St, NW 5th St, NW 4th St, NW 3rd St, NW 2nd St, NW 1st St, and NW Burnside Rd. A scale bar indicates 0 to 2,000 feet. A north arrow is present. The CIPSW00030 site is marked with a black rectangle on NE 4th St between NE 7th St and NE 6th St.

Funds	Description	Total
Resources	Operating	341,000
Resources Total		341,000
Expenses	Design/Const Admi	34,100
	Construction	265,000
	Admin (14%)	41,900
Expenses Total		341,000

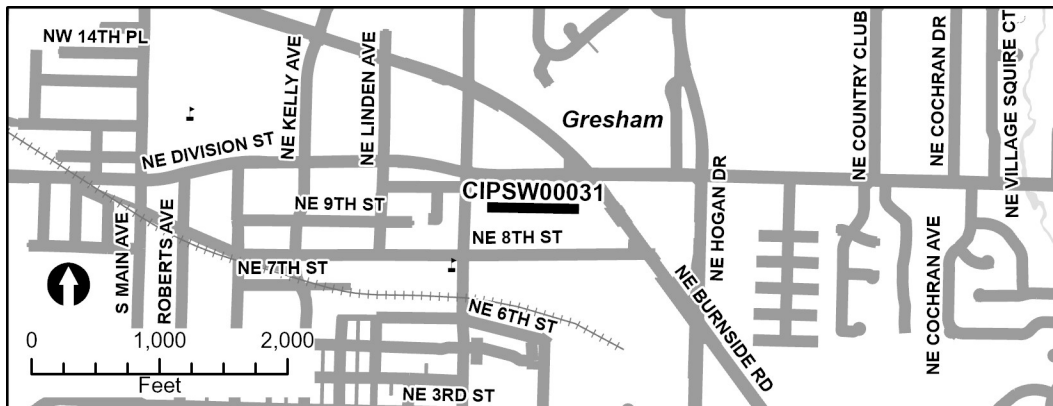
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00031: Channel Replacement Southeast of Division and Cleveland

Description: The open channel will be replaced by 760 LF of 60-inch CMP pipe to alleviate flooding. Piping this entire section will decrease energy losses associated with transitions between the open channel and piped network and significantly reduce the possibility of blockage. Some excavation will be necessary for the pipe alignment that will follow the existing open channel alignment. Four new manholes will be installed along the new pipe along with an additional 2 ft. of fill over the pipe alignment. While this project helps to reduce surface flooding, it does not meet the current Public Works Standards for pipe design. Since drainage to this location is greater than 250 acres, the pipe should be designed for the 50-yr design storm without allowing surcharging. Since this project location is constrained by existing infrastructure on the upstream and downstream ends, this pipe was sized to maximize capacity within the site constraints which resulted in adequate conveyance of the 50-yr design storm, despite pipe surcharging. Master plan project KC-2-C. SDC Project #KC-2.

Justification: City staff have reported this is a location where trash collects (from dumping) and there is debris in the channel. The inlet pipe at the west end of the open channel is a protruding corrugated metal pipe with poor safeguards to prevent blockage. Debris accumulates at this existing inlet pipe. This area experienced significant flooding during the December 2015 storm event. Water levels overtopped the banks of the open channel and flooded nearby businesses and a portion of the roadway along Division Street.

Type of Project: Design and construction of facilities related to growth and to correct deficiencies inlet and drainage capacity.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	1,584,374
	SDC	83,388
Resources Total		1,667,762
Expenses	Design/Const Admi	166,776
	Construction	1,296,217
	Admin (14%)	204,769
Expenses Total		1,667,762

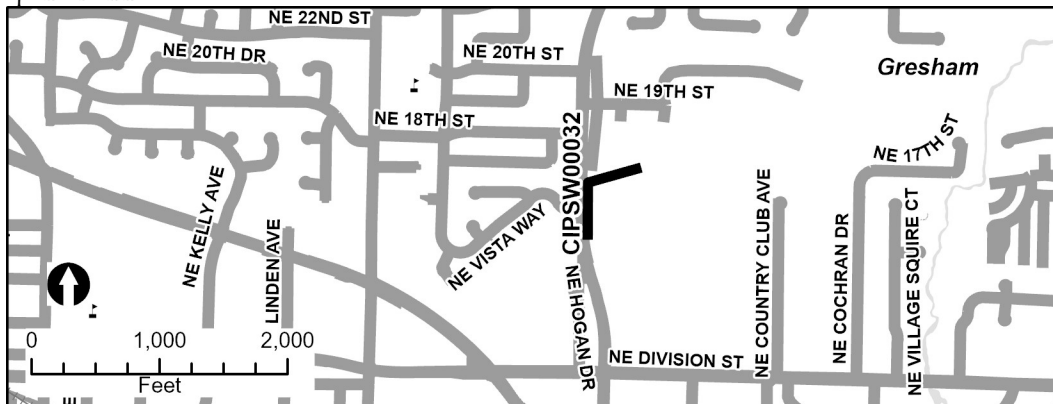
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00032: Hogan Drive Outfall Extension

Description: The proposed project would include piping of open channel flow beginning at the existing ditch on the east side of Hogan Road. The drainage ditch would be replaced with 450 LF of 72" pipe which would connect to a new vault structure. From the new structure to the outfall on the Gresham Golf course, the open channel will be replaced with 390 LF of 75" by 115" arch pipe or equivalent. A wingwall structure with headwalls is to be installed at the outlet. The existing sedimentation between NE Hogan Road and the golf course will be excavated to remove invasive vegetation, and replanted with appropriate riparian/wetlands vegetation. While this project helps to reduce surface flooding at this location, it does not meet the current Public Works Standards for pipe design. Since drainage to this location is greater than 250 acres, the pipe should be designed for the 50-yr design storm without allowing surcharging. The proposed pipe was sized to maximize capacity and minimize future surface flooding at the junction along Hogan Dr. given the site constraints. Concept planning will be completed in FY24-25. Construction schedule is dependent on available funding. Master plan project KC-10-C.

Justification: Burlingame Creek exits the piped system along the east side of Hogan Road and discharges into an eroded open channel adjacent to the Country Club Estate Condominiums. At the northern end of this ditch, three pipes discharge into an open channel that drains east between the Country Club Estate Condominiums, which continues flowing east through the Gresham Golf Course. Nearby residents have experienced repeated flooding of the wetlands area adjacent to structures. During the December 2015 storm event, the water level reached Hogan Road, covering one lane of the roadway.

Type of Project: Design and construction of construction of project to correct deficiencies within existing open channel.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	2,348,000
Resources Total		2,348,000
Expenses	Design/Const Admi	234,800
	Construction	1,824,800
	Admin (14%)	288,400
Expenses Total		2,348,000

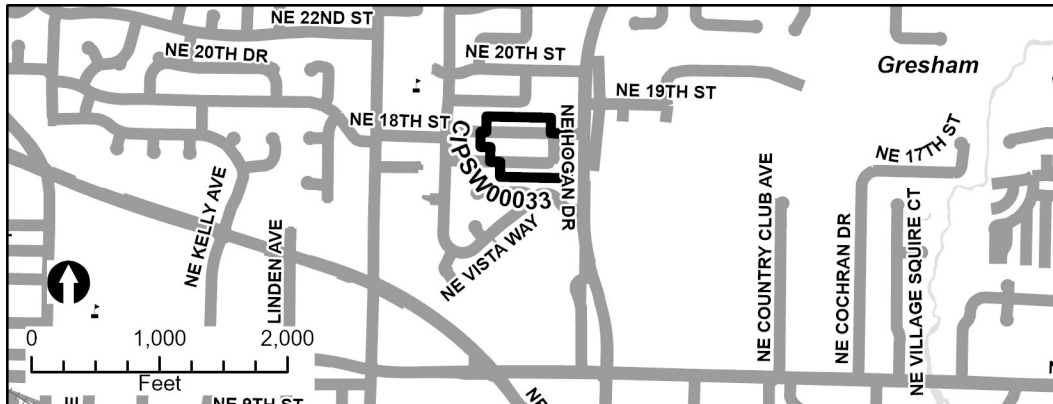
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00033: 17th and 18th Street Green Streets Improvements

Description: The proposed project provides 6,800 SF of stormwater water quality facilities within the residential neighborhood on 17th and 18th Street. These facilities will provide stormwater treatment for drainage prior to entering Burlingame Creek. Each facility will include two curb inlets, one to convey drainage into the facilities, and the other to function as an outlet overflow. Master plan project KC-10-WQ.

Justification: The residential neighborhood northwest of Hogan Dr. at the Country Club Estates Condominiums drains to the open channel section of Burlingame Creek that flows east through the Gresham Golf course. This area has historically had flooding issues, especially during the December 2015 storm event, where the water level overtopped Hogan Dr. This residential neighborhood provides an opportunity to reduce the amount of drainage to this downstream system and provide a water quality benefit through treatment and infiltration.

Type of Project: Design and construction of facilities in existing developed area to improve water quality and dampen runoff surges to downstream system.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	644,000
Resources Total		644,000
Expenses	Design/Const Admi	64,400
	Construction	500,500
	Admin (14%)	79,100
Expenses Total		644,000

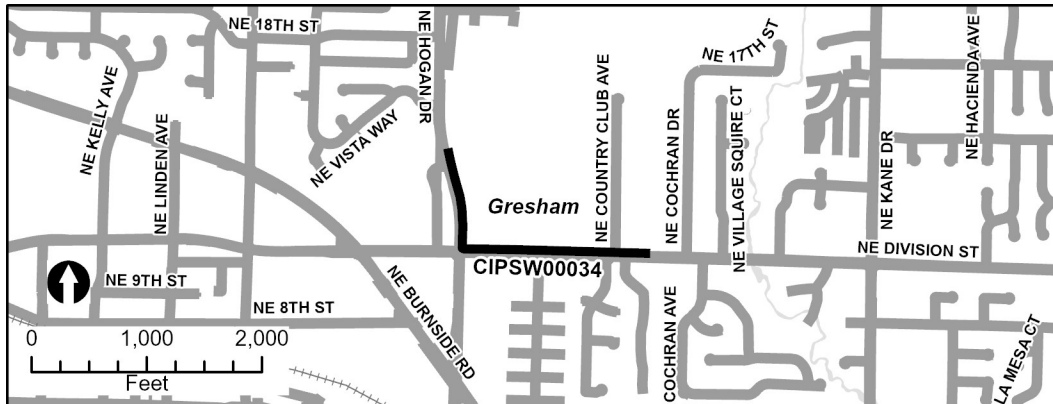
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00034: Division Street Pipe Improvements

Description: The existing 15" and 24" pipes along Division St. and Hogan are proposed to be replaced with new upsized HDPE piping. The new piped system will consist of 2,540 LF of 36" pipe and connect to existing manhole structures. Revised pipe invert elevations are proposed to maintain a consistent 1% slope along the majority of the piping run. An additional manhole is proposed along Hogan Drive per Public Works structure standards at all changes in pipe alignment. This new pipe system is proposed to reduce surcharging and eliminate surface flooding during the 10-yr design storm. Existing piping is to be removed to allow space for the replacement piping along the alignment. Master plan project KC-12-C.

Justification: This piped system along Hogan Dr. and Division St. has previously been identified as having insufficient capacity in the previous Master Plan. The model predicts pipe surcharging and flooding at manhole at the intersection of Francis and Division.

Type of Project: Design and construction of facilities related to correct existing capacity deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	2,464,000
Resources Total		2,464,000
Expenses	Design/Const Admi	246,400
	Construction	1,915,000
	Admin (14%)	302,600
Expenses Total		2,464,000

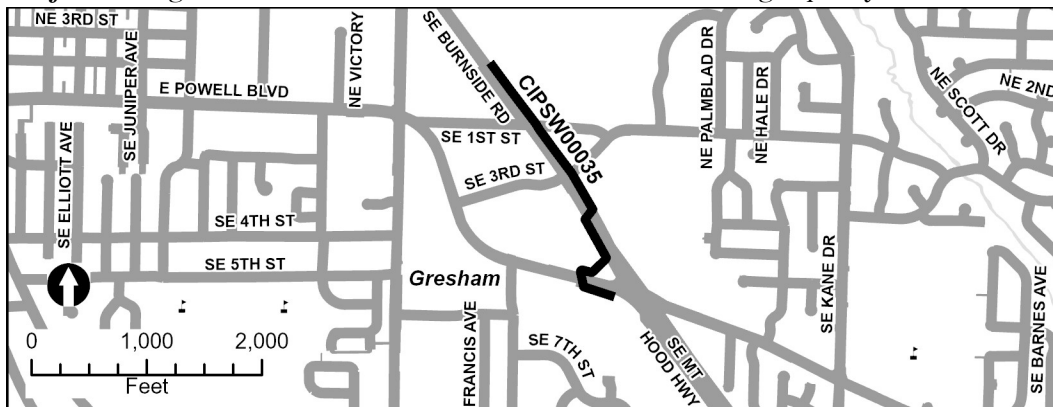
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00035: Powell and Hwy 26 Pipe Improvements

Description: This project provides capacity relief to the Powell and Hwy 26 intersection by upsizing a portion of the downstream piped system. Upsizing includes the installation of 2,390 LF of 84" HDPE pipe within the existing pipe alignment. With the installation of larger diameter pipe, installation of replacement manholes along this alignment will be required. Note that while this project improves surcharging during the 10-yr event and eliminates the predicted flooding, this project does not meet the current Public Works Standards for pipe design. Since drainage to this location is greater than 250 acres, the pipe should be designed for the 50-yr design storm without allowing surcharging. Master plan project KC-19-C.

Justification: An open channel section of Burlingame Creek transitions to a piped system at Powell prior to continuing north along Hwy 26 (Burnside Rd.). This transition consists of a large inlet grate (approximately 20 ft long by 10 ft wide) to the east of Chang's Mongolian Grill. Historically this inlet and piped system that conveys flows north across Powell has been a bottleneck and resulted in reported issues at this intersection. Modeling of the Burlingame system has indicated that the downstream pipe system (along Hwy 26) of this problem area becomes surcharged during storm events, resulting in the predicted flooding indicated at Powell and Hwy 26. This location receives drainage from approximately 750 acres. of the Burlingame Creek watershed.

Type of Project: Design and construction of facilities to correct existing capacity deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	7,149,000
Resources Total		7,149,000
Expenses	Design/Const Admi	714,900
	Construction	5,556,200
	Admin (14%)	877,900
Expenses Total		7,149,000

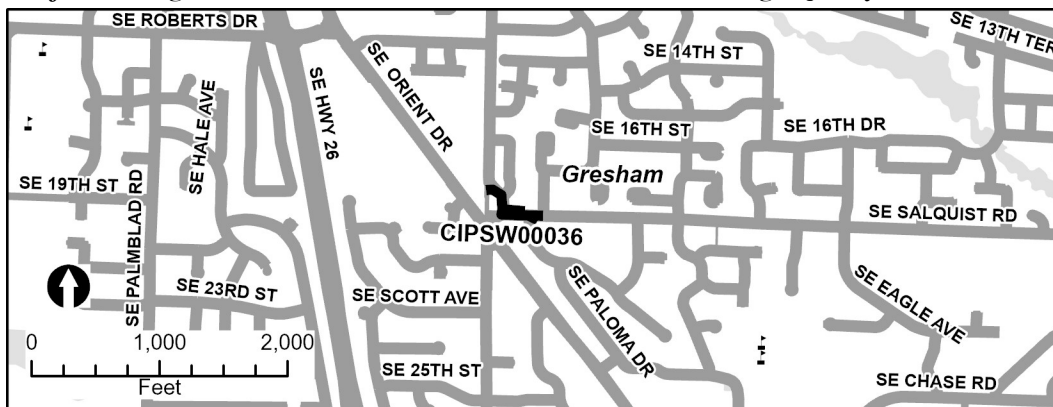
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00036: SE Salquist Road Pipe Improvements

Description: This project consists of new and replacement pipe infrastructure to separate and reroute flows from the piped systems that currently all converge underneath Salquist Rd. The existing 21" pipe that currently conveys flows to the northwest is undersized, runs through private property and is proposed to be abandoned. Flow from the Salquist Rd piped system and Burlingame Creek will now continue west beyond Paloma Dr. with the replacement of 120 LF of 24" HDPE pipe, 80 LF of 48" HDPE pipe, and 210 LF of 48" HDPE pipe. This flow will continue north at the intersection of Salquist Rd. and Barnes Rd. before discharging at a new outfall structure adjacent to the existing outfall. The pipe system from the north (Paloma Ave.) will tie into this 280 LF section of 48" pipe at a manhole via 175 LF of new 18" HDPE pipe section. This project eliminates predicted surface flooding in the model for the 10-yr design storm, however it does not meet the current Public Works Standards as surcharging within these pipes is still predicted. Master plan project KC-24-C.

Justification: The intersection of Salquist Rd. and Paloma Dr. is a previously identified capacity deficiency within the Burlingame Creek system. This capacity issue is further exacerbated due to this intersection being a confluence of several piped systems and a localized low spot. This intersection has had a history of flooding/ponding. Flooding at this intersection causes water to back up in the two piped systems (from the East and North) that enter the Burlingame Creek system at this location.

Type of Project: Design and construction of facilities to correct existing capacity deficiencies.



Estimated Dollars:	Funds	Description	Total
	Resources	Operating	1,000,000
	Resources Total		1,000,000
	Expenses	Design/Const Admi	100,000
		Construction	777,200
		Admin (14%)	122,800
	Expenses Total		1,000,000

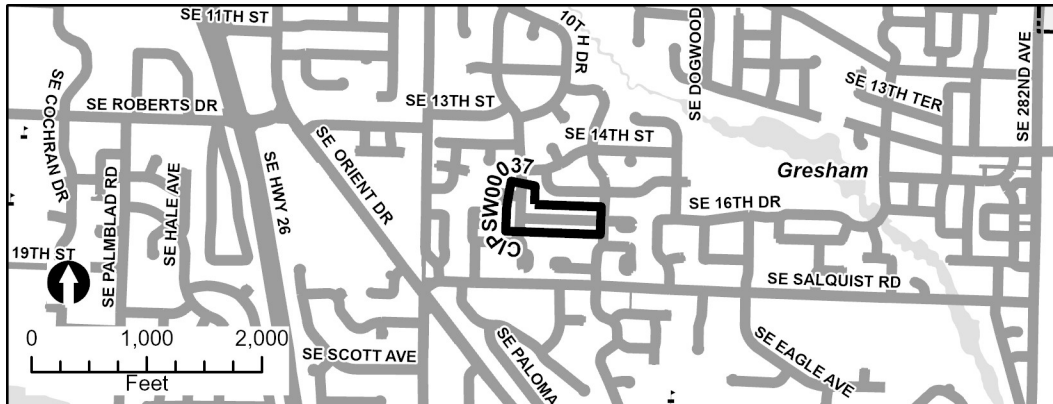
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00037: Wendy Ave. and 16th St. Green Street Improvements

Description: The proposed project provides 5,800 SF of stormwater water quality facilities within the residential neighborhood along 16th St. and Wendy Ave. These facilities will provide stormwater treatment for drainage prior to entering Burlingame Creek. Each facility will include two curb inlets, one to convey drainage into the facilities, and the other to function as an outlet overflow. Master plan project KC-24-WQ.

Justification: The residential neighborhood along Wendy Ave. and 16th St. is upstream from an observed capacity issue at Burlingame Creek (KC-24-C). This capacity issue is located at the confluence of two piped systems that enter a piped section of Burlingame Creek at Salquist Rd. A water quality opportunity exists in this neighborhood to provide treatment and flow reduction downstream.

Type of Project: Design and construction of facilities to improve water quality treatment in existing untreated developed area.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	556,000
Resources Total		556,000
Expenses	Design/Const Admi	55,600
	Construction	432,100
	Admin (14%)	68,300
Expenses Total		556,000

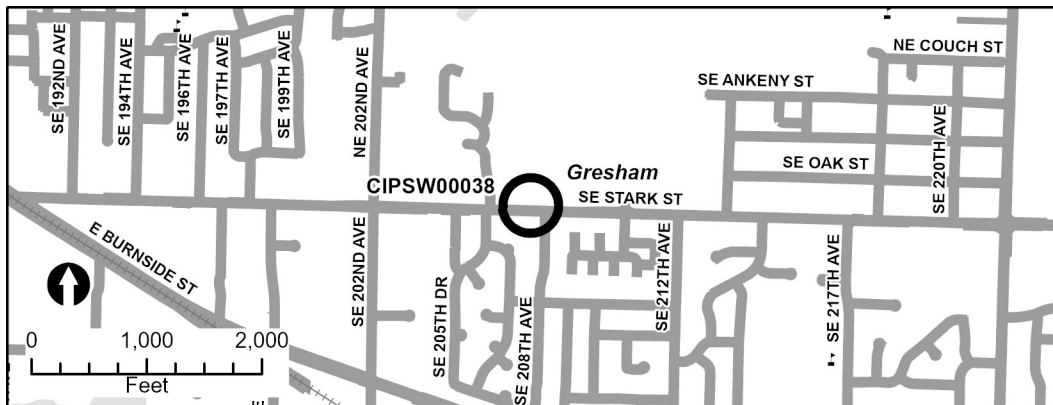
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00038: Fairview Creek Stark Street Culvert

Description: The proposed project involves replacing the existing 20-ft long, 60" diameter culvert with a 25 ft long, 60" diameter culvert. This project would raise the downstream invert elevation by 2.54 ft, but still result in a downstream invert elevation below the downstream invert elevation in the box culvert. The project also includes costs for a headwall to prevent future channel erosion from blocking the outfall and to facilitate maintenance. The goal of the project is to maintain a clear flow path from the storm drain in Stark Street to Fairview Creek. Concept planning will be completed in FY24-25. Construction schedule is dependent on available funding. Master plan project FC-1-C.

Justification: City staff have observed standing water in the stormwater conveyance system for several hundred feet to the east and west of the existing 60" diameter Stark Street Culvert. Fairview creek crosses under Stark Street in an 82 ft long, 3 ft tall by 8 ft wide concrete box culvert. A parallel 60" diameter culvert receives flow from the storm pipe in Stark Street at a manhole structure and discharges to Fairview Creek immediately to the east of the box culvert. The parallel culvert is 20 ft long and discharges below the bottom elevation of Fairview Creek, accumulating sediment, which causes standing water in the surrounding system.

Type of Project: Design and construction of project to alleviate existing capacity deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	401,000
Resources Total		401,000
Expenses	Design/Const Admi	40,100
	Construction	311,700
	Admin (14%)	49,200
Expenses Total		401,000

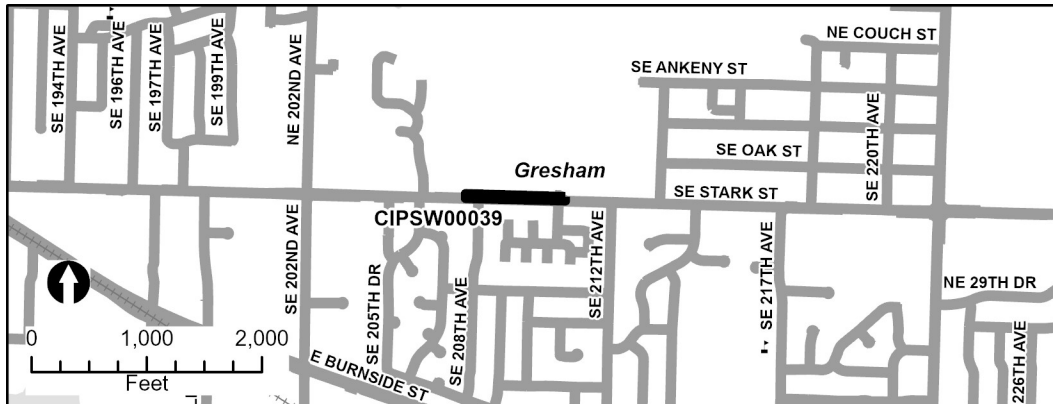
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00039: Stark St. Water Quality Swale

Description: The proposed project involves installing a shallow 780-foot water quality swale on the north side of Stark Street. The project would provide water quality treatment to runoff from the west bound lanes of Stark Street and remove some flow from the existing 36" storm drain which has standing water due to the elevation of the storm drain system relative to Fairview Creek. Concept planning will be completed in FY24-25. Construction schedule is dependent on available funding. Master plan project FC-1-WQ.

Justification: Runoff from Stark Street, an arterial within the Fairview Creek basin that generates a large amount of pollutant loading, currently does not receive water quality treatment.

Type of Project: Design and construction of facilities to provide water quality treatment for existing untreated developed area.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	671,000
Resources Total		671,000
Expenses	Design/Const Admi	67,100
	Construction	521,500
	Admin (14%)	82,400
Expenses Total		671,000

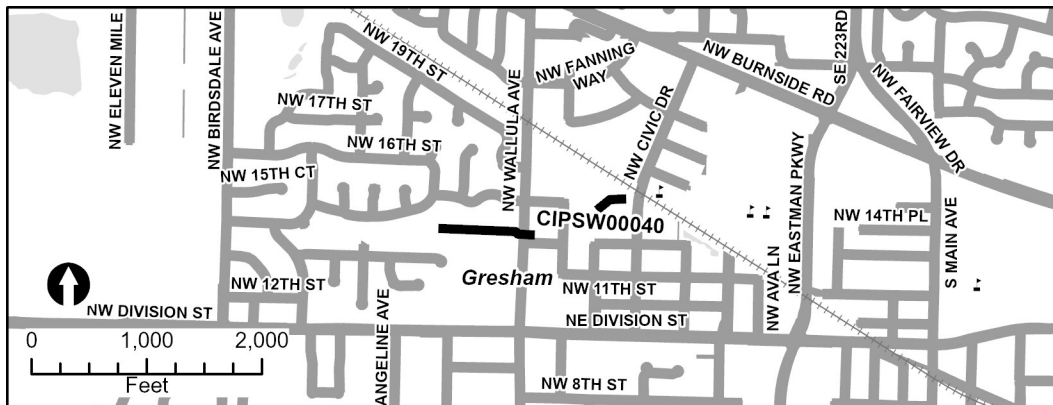
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00040: Wallula Ave. Open Channel

Description: This project includes installation of 142 LF of parallel 48-inch pipe between two existing manholes on the west side of NW Wallula Avenue. This project also includes a 75 LF engineered overflow channel to convey flow through the natural area from the new manhole to a new inlet 190 linear feet to the west side of NW Wallula Avenue. The overflow channel is 750 linear feet in length and designed with a 3-foot bottom width, 3:1 side slopes and 3-foot minimum depth. Master plan project FC-3a-C. SDC Project #FC-9.

Justification: FC-3 covers a large segment of the City's storm drain system from Red Sunset Park down to the Birdsedale Water Quality Facility. This CIP addresses the lower portion of this storm drain system that is subject to the 50-year design storm event. Minor flooding was indicated in the future condition scenario model, at a manhole located in the sidewalk on the southeast corner of the Trimet Tracks and NW Civic Drive. A CIP was developed at this location because upstream projects including CIP FC-3f-C at Civic Drive and CIP-3g-C at K-Mart and projects FC-3b-C and FC-3c-C will alleviate upstream flooding by increasing peak conveyance capacity without adding storage to the system, thereby increasing peak flows in this location.

Type of Project: Design and construction of facilities to correct existing deficiencies and prepare for impacts from upstream projects that will increase conveyance capacity of stormwater to this location.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	350,265
	SDC	64,864
Resources Total		415,129
Expenses	Design/Const Admi	41,513
	Construction	322,682
	Admin (14%)	50,934
Expenses Total		415,129

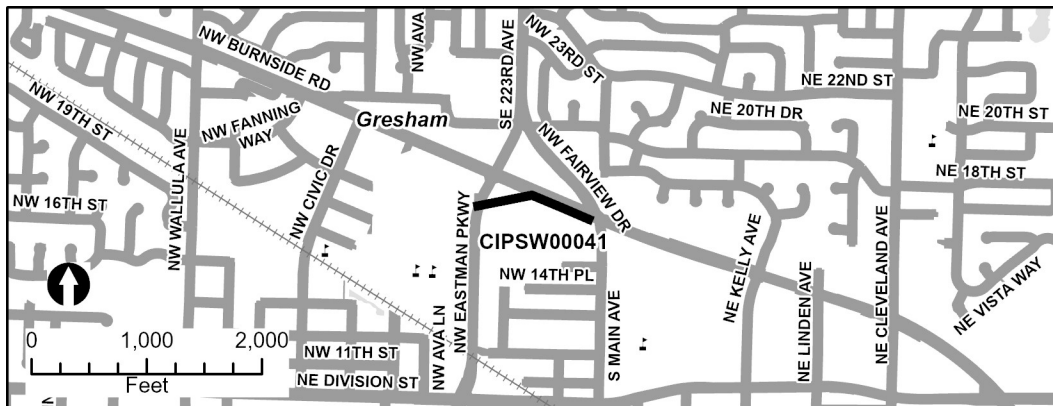
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00041: NE Burnside Road Pipe Replacements

Description: This project includes replacing 1,090 LF of existing 48" diameter pipe between two existing manhole locations with 72" diameter pipe. The project includes installation of three manholes along the right-hand eastbound lane of NE Burnside Road and one manhole at NW Eastman Parkway to meet the minimum 500 ft. spacing. Master plan project FC-3b-C..

Justification: FC-3 covers a large segment of the City's storm drain system from Red Sunset Park down to the Birdsdales Water Quality Facility. One challenge with addressing capacity limitations in this area is that many of the pipes shown to be at or over capacity in the model are located through private property and have low burial depths. This CIP addresses the middle portion of this storm drain system that is subject to the 50-year design storm event. The flooding occurs at the southwest corner of the intersection of NE Burnside Road and NW Fairview Drive and in the existing K-mart parking lot just west of NW Eastman Parkway. This is a model identified flooding, though City staff do not recall receiving many flooding complaints in this area.

Type of Project: Design and construction of facilities to correct existing capacity deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	3,645,059
Resources Total		3,645,059
Expenses	Design/Const Admi	364,506
	Construction	2,832,918
	Admin (14%)	447,635
Expenses Total		3,645,059

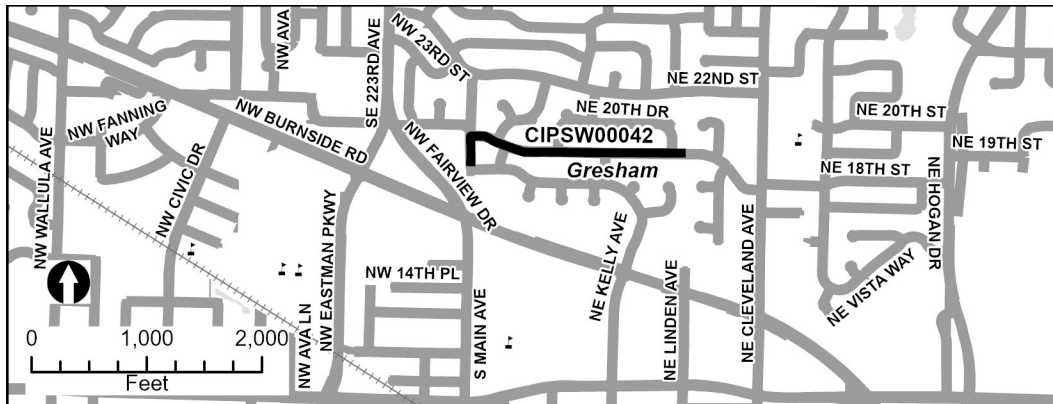
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00042: NE 19th Ave. Parallel Pipe

Description: The existing 48" pipe will remain in place and 2,120 LF of 48" parallel pipe will be installed between two existing manhole locations on NE 19th Street. A new manhole will be installed at this location at the existing 18" main. 220 feet of existing 18" pipe will be replaced with 48" to a manhole at the intersection of N Main Avenue and NE 18th Street. The project includes installation of four manholes along NE 19th Street, two to meet the minimum 500-foot spacing requirement, one to collect local drainage from NE Hood Ct., and one to collect local drainage from NE Roberts Avenue. The project also includes installation of a new manhole at N Main Ave and NE 19th Street and a new manhole at the intersection of N Main Avenue and NE 18th Street. Master plan project FC-3c-C.

Justification: FC-3 covers a large segment of the City's storm drain system from Red Sunset Park down to the Birdsdales Water Quality Facility. One challenge with addressing capacity limitations in this area is that many of the pipes shown to be at or over capacity in the model are located through private property and have low burial depths. This CIP addresses the uppermost portion of this storm drain system that is subject to the 50-year design storm event. Flooding addressed by this CIP occurs in backyards between N Main Avenue to just past NE 20th Drive and also near NW 22nd Street. The most significant flooding occurs in the model where the storm drain crosses NE Beech Ave., though City staff do not recall receiving many flooding complaints in this area.

Type of Project: Design and construction of facilities to correct existing capacity deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	2,196,000
Resources Total		2,196,000
Expenses	Design/Const Admi	219,600
	Construction	1,706,700
	Admin (14%)	269,700
Expenses Total		2,196,000

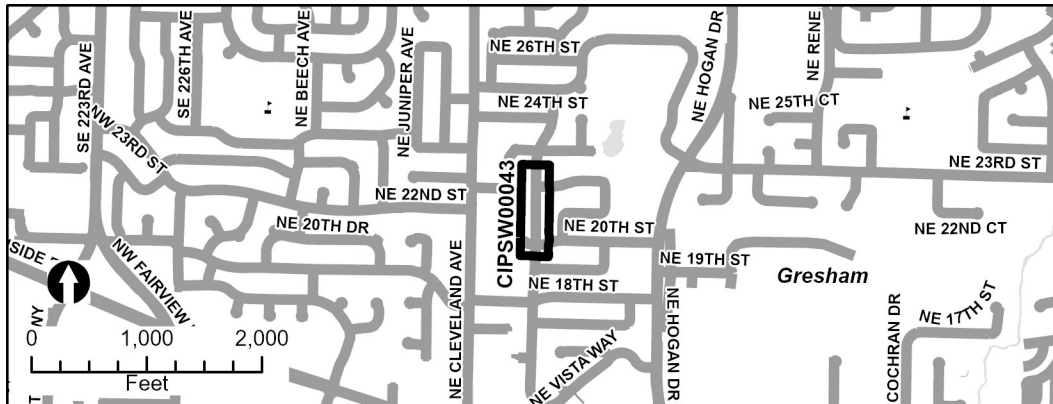
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00043: Liberty Ave. Green Street

Description: The proposed project provides 4,000 SF of stormwater water quality facilities along Liberty Avenue from 19th Street to 23rd Street within existing grassed planter strips between the existing sidewalk and curb. The existing planter strips are approximately 4 ft. wide and there is 500 LF of available space on each side of the street once existing driveways are accounted for. This project opportunistically utilizes available space. Master plan project FC-3e-WQ.

Justification: The model predicts flooding along the 18" storm drain in Liberty Avenue between 19th Street and 23rd Street. Given localized nature of flooding and flooding in the 42" main that this system flows to, a combined water quality and volume reduction strategy is proposed. This area currently does not receive any treatment or volume reduction.

Type of Project: Design and construction of facilities to improve water quality treatment and some storage in an existing untreated developed area.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	505,000
Resources Total		505,000
Expenses	Design/Const Admi	50,500
	Construction	392,500
	Admin (14%)	62,000
Expenses Total		505,000

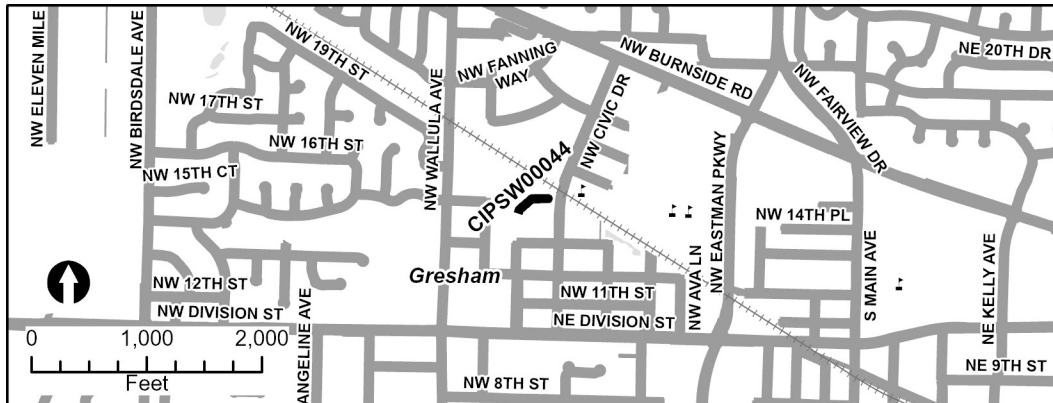
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00044: Civic Drive Improvements

Description: This project includes the installation of 322 LF of 84" HDPE pipe to bypass a portion of an existing 66" concrete pipe that crosses a currently vacant property. 300 LF of existing 66" pipe will be abandoned, and the current public drainage easement will be vacated. At the downstream connection of the proposed 84" HDPE pipe, a vault structure will be installed to connect to the parallel 48" pipes that continue to the southwest. The vault structure will tie directly into the northern 48" pipe and tie into the southern 48" pipe via 40 LF of new 48" HDPE pipe. SDC Project #FC-10.

Justification: FC-3 covers a large segment of the City's storm drain system from Red Sunset Park down to the Birdsedale Water Quality Facility. One challenge with addressing capacity limitations in this area is that many of the pipes shown to be at or over capacity in the model are located on private property and have low burial depths. This CIP addresses the lower portion of this storm drain system that is subject to the 50-year design storm event. This project is within close proximity of two other Fairview Creek CIPs; downstream is FC-3a-C (Wallula Avenue) and upstream is FC-3b-C (NE Burnside Road). The combination of these projects helps to alleviate upstream flooding by increasing peak flow capacity.

Type of Project: Design and construction of facilities to correct existing capacity deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	1,022,000
Resources Total		1,022,000
Expenses	Design/Const Admi	102,200
	Construction	794,300
	Admin (14%)	125,500
Expenses Total		1,022,000

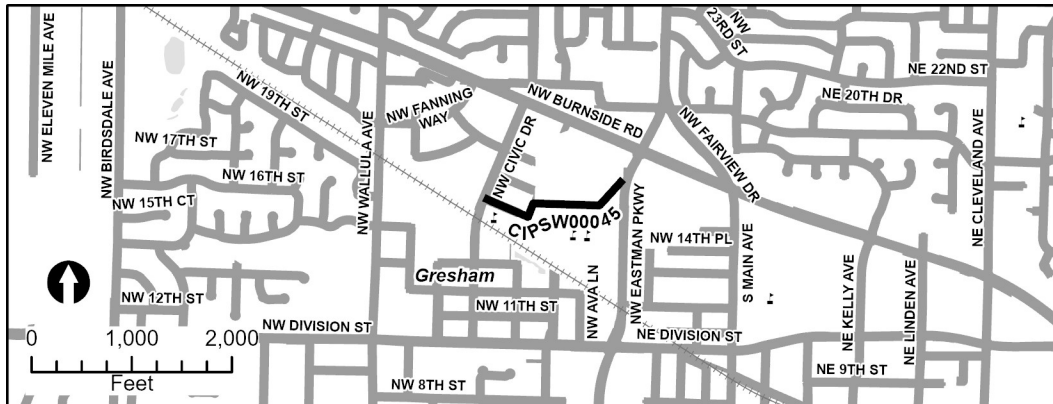
UNFUNDED and FUTURE PROJECT
Stormwater

CIPSW00045: K-Mart Pipe Improvements

Description: This project includes replacing 1,630 LF of existing 54" diameter pipe with 84" diameter pipe. Replacement and upsizing of this existing pipe helps to reduce predicted surface flooding, although surcharging for this alignment is still predicted for the 50-year event. The project includes installation of five manhole vaults along the alignment to accommodate the increased pipe size. SDC Project #FC-11, FC-12, FC-13.

Justification: FC-3 covers a large segment of the City's storm drain system from Red Sunset Park down to the Birdsdale Water Quality Facility. One challenge with addressing capacity limitations in this area is that many of the pipes shown to be at or over capacity in the model are located through private property and have low burial depths. This CIP addresses the middle portion of this storm drain system that is subject to the 50-year design storm event. The existing 54" piping from is undersized with predicted surcharging and flooding during the 50-year storm event. While the model indicates this area as a flooding problem, City staff do not recall receiving flooding complaints for this area.

Type of Project: Design and construction of facilities to correct existing capacity deficiencies.



Estimated Dollars:

Funds	Description	Total
Resources	Operating	2,995,760
	SDC	1,997,173
Resources Total		4,992,933
Expenses	Design/Const Admi	499,293
	Construction	3,880,471
	Admin (14%)	613,169
Expenses Total		4,992,933