



2021-2027 Capital Investment Program Plan

Storm & Surface Water

Bellevue's Storm & Surface Water system includes a network of streams, lakes, pipelines, storm water runoff control, and water quality facilities. The Utility owns, operates and maintains 11 regional detention facilities, 350 city-owned residential detention facilities, and monitors nearly 1,000 commercial detention facilities. Stormwater is conveyed via over 400 miles of pipelines, 86 miles of open ditch, and over 80 miles of open streams. The system includes over 23,000 structures such as manholes and catch basins that require regular maintenance and eventual retrofit/replacement.

Ongoing Utility objectives for the system include managing stream flows and flooding; limiting stream bank erosion; replacing undersized and/or deteriorating pipelines and culverts; reducing sedimentation and other water quality problems; and preserving or restoring aquatic wildlife habitat. The Utility's stormwater capital investment projects are developed to address the highest priority needs to meet these objectives.

The Utility utilizes the Storm and Surface Water System Plan, adopted in 2016, and ongoing assessments to identify and prioritize system improvement needs. In addition, current watershed management planning, drainage basin studies, analysis of storm events, input from maintenance staff, asset management analyses, and citizen input identify additional system improvement needs.

The 2021-2027 CIP recognizes that significant investments are needed to maintain aging systems and replace components that are reaching the end of their useful life. The CIP also includes investments to support the Utility's environmental stewardship goals and objectives.

2021-2027 Adopted CIP: Healthy and Sustainable Environment - Storm & Surface Water

Funded CIP Projects

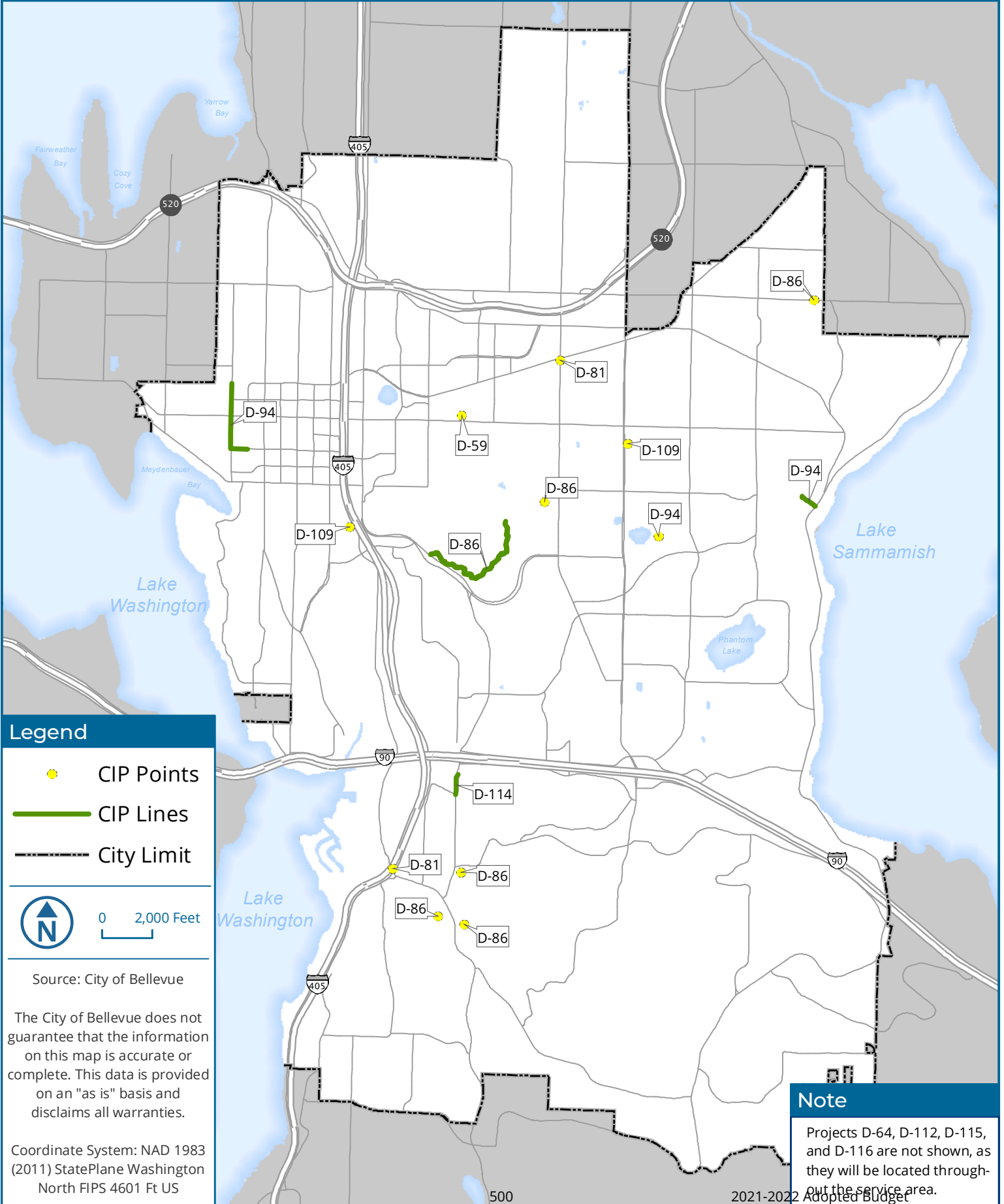
CIP Plan Number	Project Title	\$ in 000s	
		2021-2027 Project Cost	Total Estimated Cost
D-59	Minor (Small) Storm Capital Improvement Projects	\$ 190	\$ 3,855
D-64	Strom System Conveyance Repairs and Replacement	13,100	32,425
D-81	Fish Passage Improvement Program	1,800	7,846
D-86	Stream Channel Modification Program	3,240	9,519
D-94	Flood Control Program	9,490	22,341
D-103	Replace Coal Creek Pkwy Culvert at Coal Creek	50	5,337
D-104	Stream Restoration for Mobility & Infrastructure Initiative	-	2,631
D-104-B	Stream Restoration for Mobility & Infrastructure Initiative (Bank)	-	-
D-105	Replace NE 8th St Culvert at Kelsey Creek	-	4,376
D-106	Lower Coal Creek Flood Hazard Reduction Phase I	-	14,350
D-107	Storm Water Video Inspection Enhancement	-	2,581
D-109	Storm Retrofit in Kelsey Creek	750	1,407
D-112	Storm and Surface Water Planning Program	2,000	2,000
D-114	Factoria/Richard Creek Flood Reduction	9,320	9,320
D-115	SCADA Upgrade - Storm	1,450	1,450
D-116	Post-Construction Monitoring and Maintenance Program	1,050	1,050
		\$ 42,440	\$ 120,488

2021-2027 Adopted CIP: Healthy and Sustainable Environment - Storm & Surface Water

Combined, Completed Projects

CIP Plan Number	Project Title	<u>\$ in 000s</u> <u>Total</u> <u>Estimated</u> <u>Cost</u>
NONE	Total Combined, Completed Projects	<u>-</u>

2021-2027 Storm CIP Projects



Legend

- CIP Points
- CIP Lines
- City Limit



Source: City of Bellevue

The City of Bellevue does not guarantee that the information on this map is accurate or complete. This data is provided on an "as is" basis and disclaims all warranties.

Coordinate System: NAD 1983 (2011) StatePlane Washington North FIPS 4601 Ft US

Note

Projects D-64, D-112, D-115, and D-116 are not shown, as they will be located throughout the service area.

D-59 Minor (Small) Storm Capital Improvement Projects

Category: **High Quality Built & Natural Env** Status: **Ongoing**
 Department: **Utilities** Location: **Storm Service Area**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget	FY 2026 Budget	FY 2027 Budget
3,855,286	3,665,286	190,000	-	-	-	-	-	-

Description and Scope

This ongoing program is for minor (small) improvements to Bellevue's surface water system to resolve deficiencies, improve efficiencies, or resolve maintenance problems, often in conjunction with other Bellevue programs such as the Transportation overlay program. Examples of projects include pipeline outfall improvements at Meydenbauer Bay; small stormwater pipe extensions to resolve drainage problems; and modifications of catch basins in concert with street projects. Projects are prioritized based on criteria including public safety/property damage, maintenance frequency, flooding history, operator safety, environmental risk, coordination with other city or development activity, and level of service impact.

Rationale

Storm infrastructure rehabilitation and replacement is based on asset criticality and business risk, per industry best practices. In the short term, this program reduces the likelihood of catastrophic system failures; traffic disruption due to failed culverts under streets; damage claims to the city; and utility rate spikes to respond to system failures rather than proactively managing the system. In the long term, timely replacement or repair of stormwater facilities keeps customer rates as low as practical by managing the system at the lowest life-cycle cost, while maintaining service levels and meeting regulatory requirements.

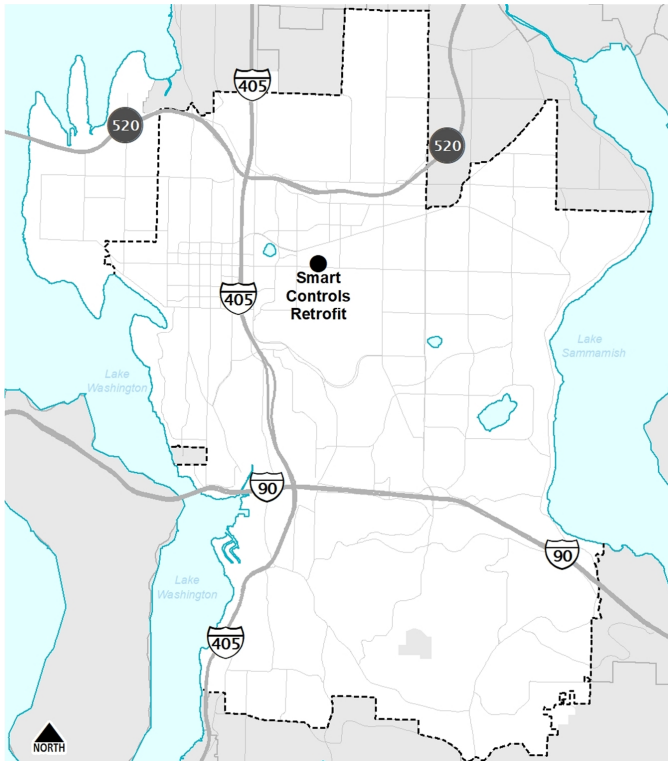
Environmental Impacts

This program will have no significant impact on operating revenues and/or expenditures.

Operating Budget Impacts

Estimated Annual M&O Costs: 0

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	2017 - 2021	3,855,286

Total Budgetary Cost Estimate: 3,855,286

Means of Financing

Funding Source	Amount
Utility Rates/Fees	3,855,286

Total Programmed Funding: 3,855,286
Future Funding Requirements: 0

Comments

D-64 Storm Water System Conveyance Infrastructure Rehabilitation

Category: **High Quality Built & Natural Env** Status: **Ongoing**
 Department: **Utilities** Location: **Storm Service Area**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget	FY 2026 Budget	FY 2027 Budget
32,425,231	19,325,231	2,360,000	1,420,000	1,530,000	1,640,000	2,010,000	2,050,000	2,090,000

Description and Scope

This ongoing program repairs defective storm drainage pipelines, culverts and ditches identified in the Utility's condition assessment program or other means. Projects are prioritized based on the severity of deterioration, the risk and consequence of failure, and coordination with planned street improvement projects. As the system ages, costs are expected to increase. The Utilities' Asset Management Program is evaluating when system replacement will require significant increases to the budget.

Rationale

Storm infrastructure rehabilitation and replacement is based on asset criticality and business risk, per industry best practices. In the short term, this program reduces the likelihood of catastrophic system failures; traffic disruption due to failed culverts under streets; damage claims to the city; and utility rate spikes to respond to system failures rather than proactively managing the system. In the long term, timely replacement or repair of stormwater facilities keeps customer rates as low as practical by managing the system at the lowest life-cycle cost, while maintaining service levels and meeting regulatory requirements.

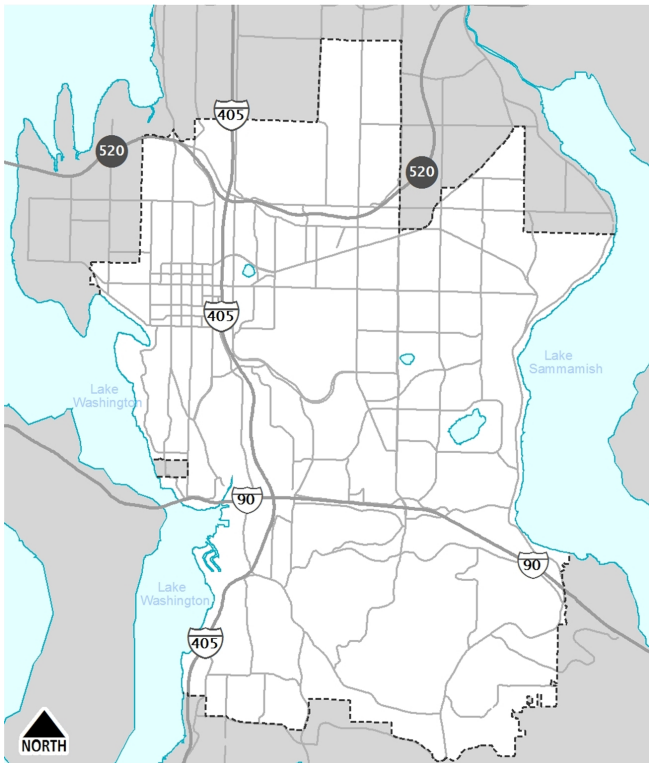
Environmental Impacts

This program will have no significant impact on operating revenues and/or expenditures.

Operating Budget Impacts

Estimated Annual M&O Costs: 0

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	Ongoing	32,425,231

Total Budgetary Cost Estimate: 32,425,231

Means of Financing

Funding Source	Amount
Utility Rates/Fees	32,425,231

Total Programmed Funding: 32,425,231
Future Funding Requirements: 0

Comments

D-81 Fish Passage Improvement Program

Category: **High Quality Built & Natural Env** Status: **Ongoing**
 Department: **Utilities** Location: **Storm and Sewer Service Area**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget	FY 2026 Budget	FY 2027 Budget
7,845,895	6,045,895	-	350,000	100,000	190,000	610,000	500,000	50,000

Description and Scope

This ongoing program provides funding to remove fish passage barriers such as impassable culverts, debris jams, or accumulated sediment, allowing access to critical spawning and rearing habitat for salmon populations. Typical projects include culvert replacement or modification, debris removal, or installation of logs and boulders to improve access at low stream flows. Grant money is pursued to supplement Bellevue's investment whenever possible. Projects planned for this CIP window are on Kelsey Creek at 140th Ave NE; on Yarrow West Tributary; on Newport Creek; at Mercer/Alcove Creek, and on Yarrow East Tributary.

Rationale

This program along with others in this proposal open salmon access to existing functional habitat, one of the quickest methods to increase salmon populations; helps stabilize streams and improve habitat consistent with Council-approved Lake Washington / Cedar / Sammamish Chinook Salmon Recovery Plan; improves water quality that limits fish viability; protects properties from flooding of structures, flooding which restricts access to residences or businesses, and street flooding that impacts primary emergency routes; restores streams for recreation and environmental health in the redeveloping Bel-Red Corridor; and reduce the potential for sewage overflow to surface water bodies.

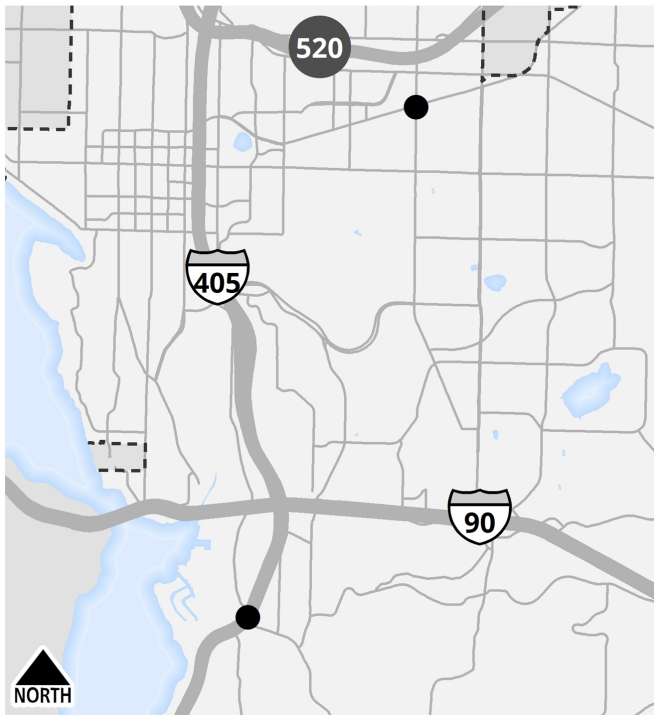
Environmental Impacts

This program will have no significant impact on operating revenues and/or expenditures.

Operating Budget Impacts

Estimated Annual M&O Costs: 0

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	Ongoing	7,845,895

Total Budgetary Cost Estimate: 7,845,895

Means of Financing

Funding Source	Amount
Utility Rates/Fees	7,845,895

Total Programmed Funding: 7,845,895
Future Funding Requirements: 0

Comments

D-86 Stream Channel Modification Program

Category: **High Quality Built & Natural Env** Status: **Ongoing**
 Department: **Utilities** Location: **Storm and Sewer Service Area**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget	FY 2026 Budget	FY 2027 Budget
9,518,568	6,278,568	1,390,000	160,000	180,000	-	80,000	440,000	990,000

Description and Scope

This ongoing program resolves unstable stream sections that reduce salmon spawning or rearing habitat or increase Bellevue Utilities maintenance requirements. Stream stability problems include stream sections with excessive erosion or sediment deposition. This program also improves habitat complexity by planting coniferous trees to reduce willow mono-culture or invasive weed species. Stabilizing the stream channel consists primarily of placing large woody debris and boulders in the stream channel, and re-vegetating stream banks, commonly called bioengineering. Projects planned in this CIP window include projects on Lower Kelsey Creek, at the Coal Creek Channel, and erosion control in the Sunset Creek ravine.

Rationale

This program along with others in this proposal open salmon access to existing functional habitat, one of the quickest methods to increase salmon populations; helps stabilize streams and improve habitat consistent with Council-approved Lake Washington / Cedar / Sammamish Chinook Salmon Recovery Plan; improves water quality that limits fish viability; protects properties from flooding of structures, flooding which restricts access to residences or businesses, and street flooding that impacts primary emergency routes; restores streams for recreation and environmental health in the redeveloping Bel-Red Corridor; and reduce the potential for sewage overflow to surface water bodies.

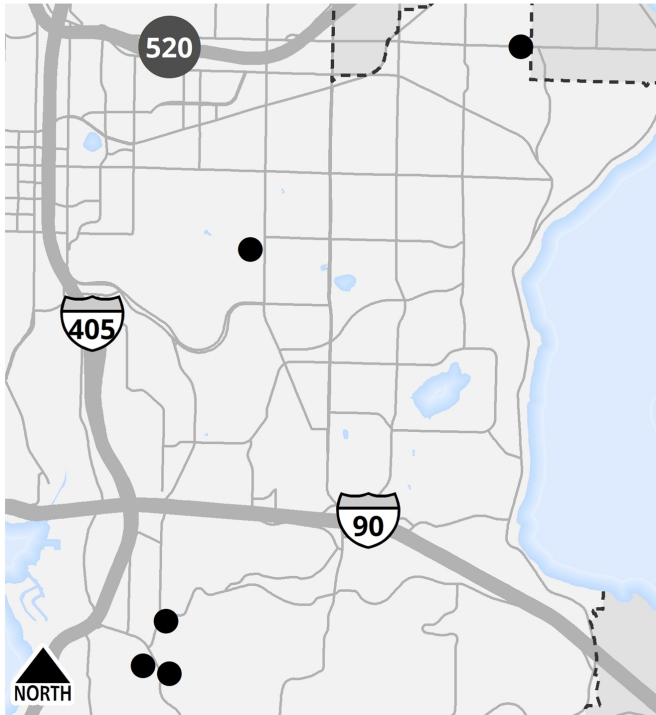
Environmental Impacts

This program will have no significant impact on operating revenues and/or expenditures.

Operating Budget Impacts

Estimated Annual M&O Costs: 0

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	Ongoing	9,518,568

Total Budgetary Cost Estimate: 9,518,568

Means of Financing

Funding Source	Amount
Utility Rates/Fees	9,518,568

Total Programmed Funding: 9,518,568
Future Funding Requirements: 0

Comments

D-94 Flood Control Program

Category: **High Quality Built & Natural Env** Status: **Ongoing**
 Department: **Utilities** Location: **Storm and Sewer Service Area**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget	FY 2026 Budget	FY 2027 Budget
22,340,973	12,850,973	2,950,000	2,450,000	2,070,000	520,000	500,000	500,000	500,000

Description and Scope

This ongoing program constructs improvements to reduce or eliminate flooding caused by insufficient public drainage system capacity. Projects involve enlarging pipes or culverts to convey more stormwater, re-routing drainage to pipes with more capacity, adding detention or infiltration facilities, or other runoff control strategies. Candidate sites are wherever levels of service (LOS) for flood protection are not met. The following sites have projects in progress or have been identified for future improvements, and are presented in priority order. They will be prioritized for implementation with any others that become apparent as a result of storm or system analysis: 1. Valley Creek / NE 21st Flood control (in progress); 2. Post construction monitoring on Coal Creek Upper Reach; 3. Factoria Boulevard Conveyance Improvements; 4. Meydenbauer Basin / CBD Conveyance Improvements; 5. Wolverine Drive Flood Control Project; 6. North Sammamish Flood Improvements; 7. Overlake Overflow / NE 20th Street Improvements. Lower Coal Creek Sed. Pond, Sunset / SE 30th St Flood Control; 8. Sunset Creek / Garden Brook; 9. 156th Ave SE & SE 4th St. Storm Drainage Improvements; 10. Phantom / Larson Lake Channel Regrade. The SE Newport Way Culvert Replacement Project previously on this list has been deleted. King County completed repairs at the site prior to Bellevue's annexation of the area. Kelsey Creek/SE 7th Street Flood Control was also removed from the list. Field investigation suggests that enhanced maintenance at that site may result in significant improvement. If further channel or culvert work is needed, it will be considered for addition to the project list during a future CIP update.

Rationale

This program along with others in this proposal open salmon access to existing functional habitat, one of the quickest methods to increase salmon populations; helps stabilize streams and improve habitat consistent with Council-approved Lake Washington / Cedar / Sammamish Chinook Salmon Recovery Plan; improves water quality that limits fish viability; protects properties from flooding of structures, flooding which restricts access to residences or businesses, and street flooding that impacts primary emergency routes; restores streams for recreation and environmental health in the redeveloping Bel-Red Corridor; and reduce the potential for sewage overflow to surface water bodies.

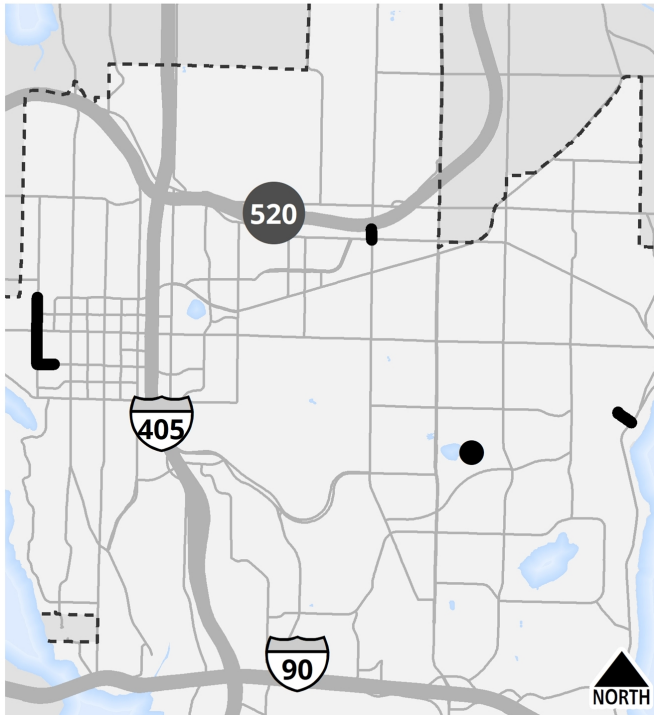
Environmental Impacts

This program will have no significant impact on operating revenues and/or expenditures.

Operating Budget Impacts

Estimated Annual M&O Costs: 0

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	Ongoing	22,340,973

Total Budgetary Cost Estimate: 22,340,973

Means of Financing

Funding Source	Amount
Interlocal Contributions	5,449,000
Utility Rates/Fees	16,891,973

Total Programmed Funding: 22,340,973
Future Funding Requirements: 0

Comments

D-103 Replace the Coal Creek Parkway Culvert at Coal Creek

Category: **High Quality Built & Natural Env** Status: **Ongoing**
 Department: **Utilities** Location: **Storm Service Area**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget	FY 2026 Budget	FY 2027 Budget
5,337,250	5,287,250	50,000	-	-	-	-	-	-

Description and Scope

This project replaced a 96-inch diameter, 110 foot long corrugated metal pipe built in the 1980s that carries Coal Creek beneath Coal Creek Parkway. The old culvert impeded fish passage. Remaining costs are for permit-required post-construction monitoring for ten years after project completion.

Rationale

Storm infrastructure rehabilitation and replacement is based on asset criticality and business risk, per industry best practices. In the short term, this project reduces the likelihood of catastrophic system failures; traffic disruption due to failed culverts under streets; damage claims to the city; and utility rate spikes to respond to system failures rather than proactively managing the system. In the long term, timely replacement or repair of stormwater facilities keeps customer rates as low as practical by managing the system at the lowest life-cycle cost, while maintaining service levels and meeting regulatory requirements.

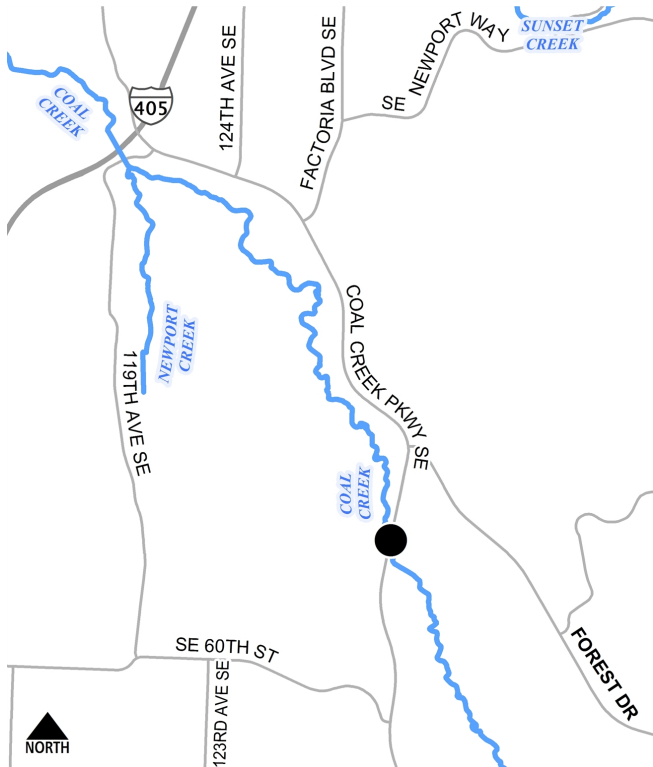
Environmental Impacts

This program will have no significant impact on operating revenues and/or expenditures.

Operating Budget Impacts

Estimated Annual M&O Costs: 0

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	2009 - 2021	5,337,250

Total Budgetary Cost Estimate: 5,337,250

Means of Financing

Funding Source	Amount
Utility Rates/Fees	5,337,250

Total Programmed Funding: 5,337,250
Future Funding Requirements: 0

Comments

D-109 Water Quality Retrofit Program

Category: **High Quality Built & Natural Env** Status: **Ongoing**
 Department: **Utilities** Location: **Storm and Sewer Service Area**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget	FY 2026 Budget	FY 2027 Budget
1,407,000	657,000	-	750,000	-	-	-	-	-

Description and Scope

This project will design and install three water quality retrofit improvements using biofiltration and rain garden techniques within city rights-of-way, where it will improve water quality from street runoff to Kelsey Creek. The Storm and Surface Water System Plan reported that over 38 percent of the city was developed without water quality treatment of stormwater. When stormwater management regulations were first established, they focused largely on flood control. Recent studies have demonstrated that roadway stormwater runoff kills Coho salmon. In 2014 there was 100 percent mortality of hatchery Coho salmon transplanted to Kelsey Creek. Studies show that filtering stormwater runoff through bio-retention soil mixes will clean the stormwater sufficiently to result in salmon survival. This project will improve stormwater quality, and improve fish survival. It lays the foundation for an ongoing program that Bellevue could use to meet water quality retrofit requirements. It aligns with many resource agency goals for water quality retrofit and low impact development BMPs, and positions Bellevue to be successful with grant applications from those agencies.

Rationale

This project along with others in this proposal open salmon access to existing functional habitat, one of the quickest methods to increase salmon populations; helps stabilize streams and improve habitat consistent with Council-approved Lake Washington/Cedar/Sammamish Chinook Salmon Recovery Plan; improves water quality that limits fish viability; protects properties from flooding of structures, flooding which restricts access to residences or businesses, and street flooding that impacts primary emergency routes; restores streams for recreation and environmental health in the redeveloping Bel-Red Corridor; and reduce the potential for sewage overflow to surface water bodies.

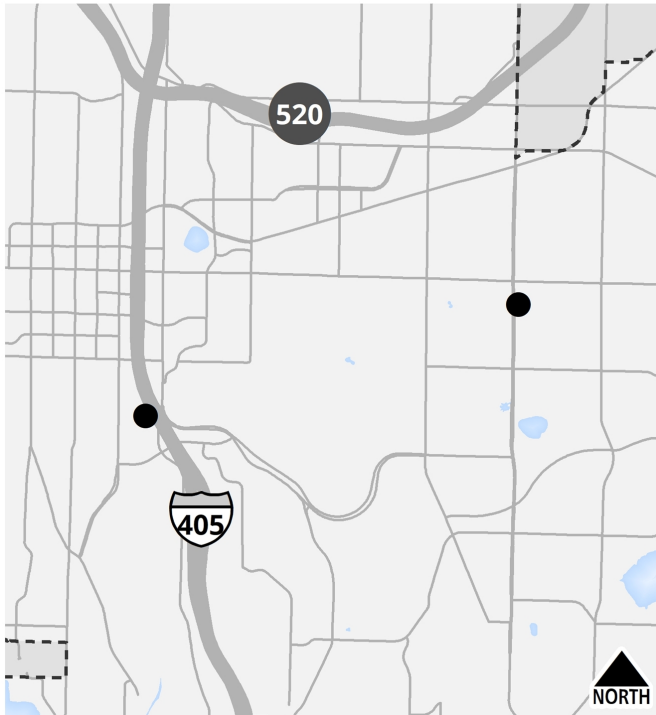
Environmental Impacts

This program will have no significant impact on operating revenues and/or expenditures.

Operating Budget Impacts

Estimated Annual M&O Costs: 0

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	2017 - 2022	1,407,000

Total Budgetary Cost Estimate: 1,407,000

Means of Financing

Funding Source	Amount
Utility Rates/Fees	1,407,000

Total Programmed Funding: 1,407,000
Future Funding Requirements: 0

Comments

D-112 Storm and Surface Water Planning Program

Category: **High Quality Built & Natural Env** Status: **New**
 Department: **Utilities** Location: **Various locations.**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget	FY 2026 Budget	FY 2027 Budget
2,000,000	-	590,000	600,000	240,000	-	-	280,000	290,000

Description and Scope

This proposal is for Utility CIP projects with environmental preservation or restoration as the primary goal. It includes programs and projects intended to restore stream health and environmental habitat or prevent pollution of those resources. These projects guard against detrimental impacts from city operations or repair environmental damage on public lands or lands with public responsibilities, such as easement obligations and at past project sites. CIP Plans included in this proposal are:

- D-81 Fish Passage Improvement Program
- D-86 Stream Channel Modification Program
- D-94 Flood Control Program (funded in part by King County Flood Control District (KCFCD))
- D-104 Stream Restoration for Mobility and Infrastructure Initiative
- D-106 Lower Coal Creek Flood Hazard Reduction Phase 1 (funded in whole by KCFCD)
- D-109 Water Quality Retrofit Program
- D-112 Storm and Surface Water Planning Program
- D-114 Factoria/Richards Creek Flood Reduction
- D-116 Post-Construction Monitoring and Maintenance Program

D-106 is funded entirely by the King Co. Flood Control Zone District (KCFCD) as a regional priority flood control project. D-94 and D-114 are funded in part by the KCFCD. All other proposed investments are funded by utility rates.

Most of the CIP programs in this proposal are included in the adopted 2019-2025 CIP. Council approved rate increases to pay for these CIP Plans, and the projects contained in them, when they approved prior budgets; revenues have been collected since then toward construction of those projects. 2.5% inflation per year is assumed, consistent with regional cost indices for public works engineering and construction. New CIP Plans are described in the next section.

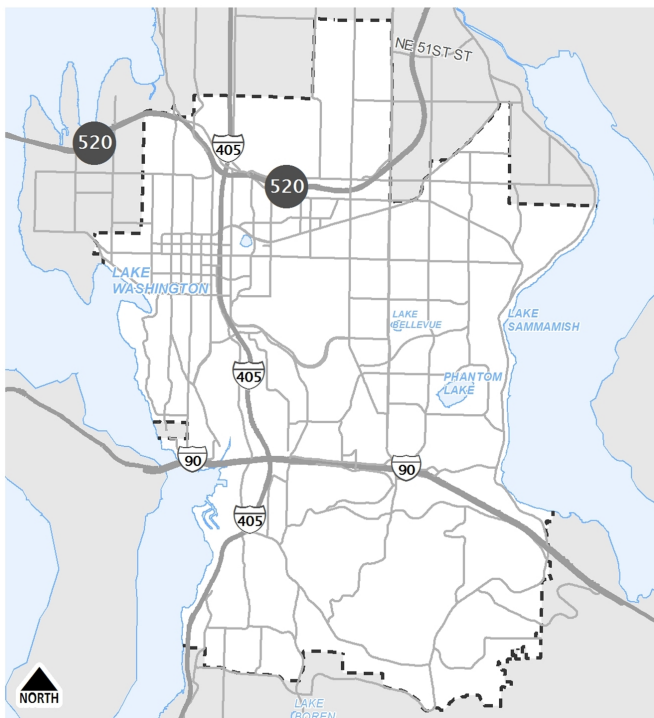
Rationale

Environmental Impacts

Operating Budget Impacts

Estimated Annual M&O Costs: 0

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	2017 - 2023	2,000,000

Total Budgetary Cost Estimate: 2,000,000

Means of Financing

Funding Source	Amount
Utility Rates/Fees	2,000,000

Total Programmed Funding: 2,000,000
Future Funding Requirements: 0

D-114 Factoria/Richards Creek Flood Reduction

Category: **High Quality Built & Natural Env** Status: **New**
 Department: **Utilities** Location: **Various locations.**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget	FY 2026 Budget	FY 2027 Budget
9,320,000	-	5,220,000	4,100,000	-	-	-	-	-

Description and Scope

This proposal is for Utility CIP projects with environmental preservation or restoration as the primary goal. It includes programs and projects intended to restore stream health and environmental habitat or prevent pollution of those resources. These projects guard against detrimental impacts from city operations or repair environmental damage on public lands or lands with public responsibilities, such as easement obligations and at past project sites. CIP Plans included in this proposal are:

- D-81 Fish Passage Improvement Program
- D-86 Stream Channel Modification Program
- D-94 Flood Control Program (funded in part by King County Flood Control District (KCFCD))
- D-104 Stream Restoration for Mobility and Infrastructure Initiative
- D-106 Lower Coal Creek Flood Hazard Reduction Phase 1 (funded in whole by KCFCD)
- D-109 Water Quality Retrofit Program
- D-112 Storm and Surface Water Planning Program
- D-114 Factoria/Richards Creek Flood Reduction
- D-116 Post-Construction Monitoring and Maintenance Program

D-106 is funded entirely by the King Co. Flood Control Zone District (KCFCD) as a regional priority flood control project. D-94 and D-114 are funded in part by the KCFCD. All other proposed investments are funded by utility rates.

Most of the CIP programs in this proposal are included in the adopted 2019-2025 CIP. Council approved rate increases to pay for these CIP Plans, and the projects contained in them, when they approved prior budgets; revenues have been collected since then toward construction of those projects. 2.5% inflation per year is assumed, consistent with regional cost indices for public works engineering and construction. New CIP Plans are described in the next section.

Rationale

Environmental Impacts

Operating Budget Impacts

Estimated Annual M&O Costs: 0

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	2017 - 2023	9,320,000

Total Budgetary Cost Estimate: 9,320,000

Means of Financing

Funding Source	Amount
Intergovernmental Contributions	5,743,000
Utility Rates/Fees	3,577,000

Total Programmed Funding: 9,320,000
Future Funding Requirements: 0

D-115 SCADA Upgrade - Storm

Category: **High Quality Built & Natural Env** Status: **New**
 Department: **Utilities** Location: **Various locations.**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget	FY 2026 Budget	FY 2027 Budget
1,450,000	-	-	600,000	200,000	20,000	-	630,000	-

Description and Scope

This proposal funds replacement or rehabilitation of the constructed portions (pipes, ponds, vaults) of Bellevue's aging stormwater system. This program is entirely supported by utility rates. 2.5% inflation per year is assumed, consistent with regional cost indices for public works engineering and construction.

Programs included in this proposal are:

- D-64 Storm Water System Conveyance Infrastructure Rehabilitation
- D-103 Replace the Coal Creek Parkway Culvert at Coal Creek
- D-115 SCADA Upgrade - Storm

Bellevue's stormwater system includes 410 miles of pipes and culverts, 11 regional ponds, and over 22,000 catch basins, inlets, and manholes. Replacement of infrastructure prior to failure prevents flooding of public facilities and private property, erosion and traffic disruption, and protects the natural environment (streams, lakes and wetlands) from high velocity, erosive stormwater runoff and detrimental water quality pollutants. This proposal implements a long term strategy to manage storm infrastructure at the least life-cycle cost, while maintaining acceptable service levels. Utilities Financial Policies (adopted by Council) require appropriate capital investment for asset replacement. These are long term renewal and replacement programs. Asset replacement is based on asset criticality and business risk, per industry best practices. Bellevue's NPDES Permit (Western Washington Phase II Municipal Stormwater Permit) requires Bellevue to reduce the discharge of pollutants to surface water to the maximum extent practicable.

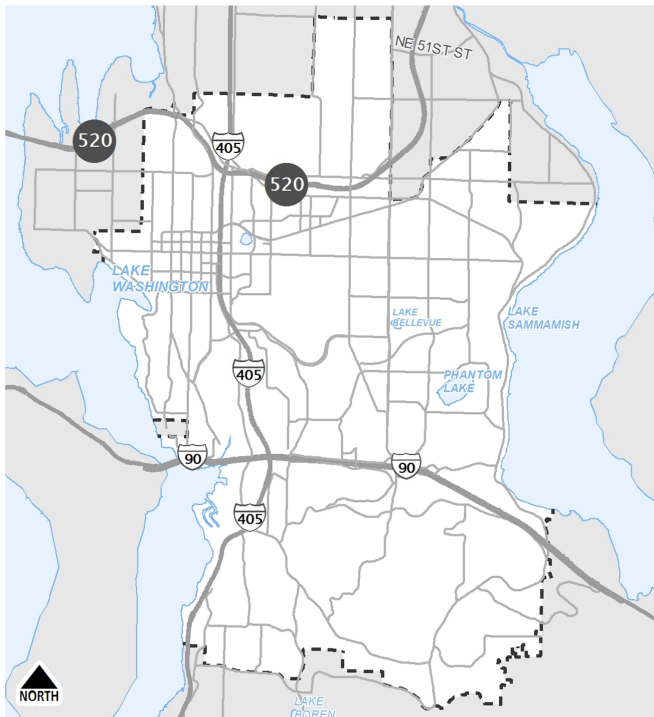
Rationale

Environmental Impacts

Operating Budget Impacts

Estimated Annual M&O Costs: 0

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	2017 - 2023	1,450,000

Total Budgetary Cost Estimate: 1,450,000

Means of Financing

Funding Source	Amount
Utility Rates/Fees	1,450,000

Total Programmed Funding: 1,450,000
Future Funding Requirements: 0

Comments

D-116 Post-Construction Monitoring and Maintenance Program

Category: **High Quality Built & Natural Env** Status: **New**
 Department: **Utilities** Location: **Various locations.**

Programmed Expenditures

Programmed Expenditures	Appropriated To Date	FY 2021 Budget	FY 2022 Budget	FY 2023 Budget	FY 2024 Budget	FY 2025 Budget	FY 2026 Budget	FY 2027 Budget
1,050,000	-	220,000	210,000	270,000	160,000	110,000	40,000	40,000

Description and Scope

This proposal is for Utility CIP projects with environmental preservation or restoration as the primary goal. It includes programs and projects intended to restore stream health and environmental habitat or prevent pollution of those resources. These projects guard against detrimental impacts from city operations or repair environmental damage on public lands or lands with public responsibilities, such as easement obligations and at past project sites. CIP Plans included in this proposal are:

- D-81 Fish Passage Improvement Program
- D-86 Stream Channel Modification Program
- D-94 Flood Control Program (funded in part by King County Flood Control District (KCFCD))
- D-104 Stream Restoration for Mobility and Infrastructure Initiative
- D-106 Lower Coal Creek Flood Hazard Reduction Phase 1 (funded in whole by KCFCD)
- D-109 Water Quality Retrofit Program
- D-112 Storm and Surface Water Planning Program
- D-114 Factoria/Richards Creek Flood Reduction
- D-116 Post-Construction Monitoring and Maintenance Program

D-106 is funded entirely by the King Co. Flood Control Zone District (KCFCD) as a regional priority flood control project. D-94 and D-114 are funded in part by the KCFCD. All other proposed investments are funded by utility rates.

Most of the CIP programs in this proposal are included in the adopted 2019-2025 CIP. Council approved rate increases to pay for these CIP Plans, and the projects contained in them, when they approved prior budgets; revenues have been collected since then toward construction of those projects. 2.5% inflation per year is assumed, consistent with regional cost indices for public works engineering and construction. New CIP Plans are described in the next section.

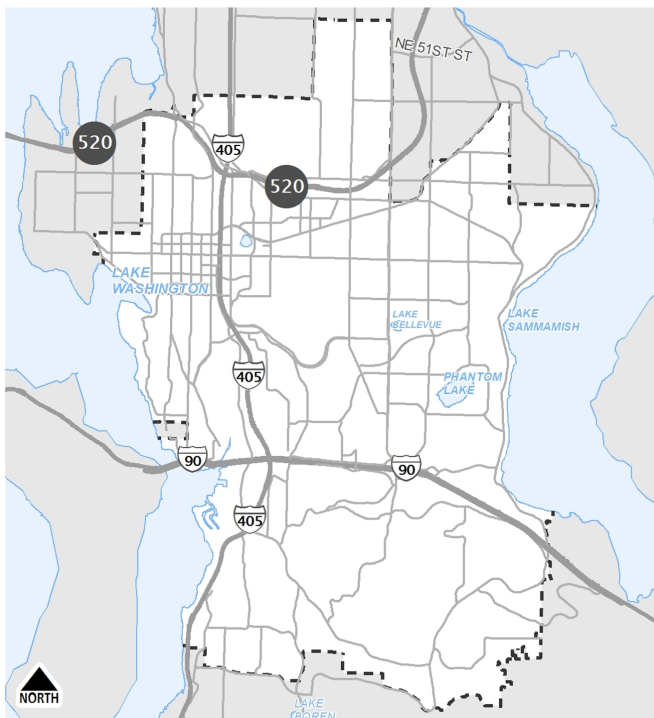
Rationale

Environmental Impacts

Operating Budget Impacts

Estimated Annual M&O Costs: 0

Project Map



Schedule of Activities

Project Activities	From - To	Amount
Project Costs	2021 - 2027	1,050,000

Total Budgetary Cost Estimate: 1,050,000

Means of Financing

Funding Source	Amount
Utility Rates/Fees	1,050,000

Total Programmed Funding: 1,050,000
Future Funding Requirements: 0

