

**Thurston PUD
2024 Proposed Capital Budget**

	2024 Proposed Budget
Capital Fund Estimated Beginning Fund Balance	4,072,740

Capital Improvements

Project Code	Water System	Project Description	
CI-41	multiple	Isolation Valve Maintenance	100,000
CI-44	multiple	Rebuild 3 Pumphouses - (PWTF)	197,000
CI-50	600	Tanglewilde Mainline Replacement	10,000,000
CI-62	multiple	Existing Treatment Replacements	267,000
CI-63	369	Loma Vista New Treatment	200,000
CI-65	multiple	Replace Plumbing/Pressure Tanks	137,000
CI-66	multiple	Existing System Replacements	150,000
CI-68	multiple	Replace/Rehabilitate Wells	100,000
CI-71	multiple	Electrical Controls Upgrades	115,000
CI-75	multiple	Source and Service Meter Replacement	125,000
CI-76	multiple	Well and Booster Pump Replacement	250,000
CI-89	215	Deschutes Glen Reservoir Replacement	35,000
CI-96	multiple	Sampling Stations	10,000
CI-98	multiple	New Meter Installation	75,000
CI-100	multiple	Combine 4 Grp A Water Systems in Thurston County (DWSRF)	100,000
CI-102	239	Prairie Ridge Consolidation	1,500,000
CI-105	multiple	Water Systems Emergency Preparedness	10,000
CI-106	500	Pattison Infrastructure Replacement and Upgrades	2,000,000
CI-109	multiple	PFAS/PFOA Treatment	10,000,000
CI-110	690	Meadows Generator and Two Portable Generators	225,000
CI-111	680	Green Cove Culvert Replacement	1,100,000
CI-112	N/A	District Chlorine Plant	100,000
CI-113	500	Pattison Reservoir Expansion	1,100,000
CI-114	multiple	Water Systems Chlorine Analyzers & Telemetry	48,000
		<i>20% Contingency on Asset Management Plan Estimates</i>	255,800
Subtotal - Capital Improvements			28,199,800

Water System Management

WM-1	N/A	Acquisitions and Disposal of Water Systems	50,000
WM-4	N/A	Water System Plan - Part B	25,000
WM-33	N/A	Easements	30,000
WM-38	N/A	Geographic Information System (GIS) Program	15,000
Subtotal - Water System Management			120,000
Total - Capital Improvement Program			28,319,800

Funding

	Transfer from Capital Surcharges	1,559,800
	Water Revenue Bond Proceeds	563,481
	General Facility Charge (GFC) Collections	60,000
	PWTF Loan - Rebuild 3 Pumphouses	197,000
	DWSRF Loan/Grant - 4 Group A's Thurston County	100,000
	FEMA Grant - Water System Generators	199,519
	DWSRF Loan/Grant - Pattison Consolidation and Replacement	2,000,000
	Developer Deposit - Pattison Reservoir Expansion	1,100,000
	DWSRF Loan, Grant, Bond or Additional Funding Needed	22,600,000
Total - Funding		28,379,800
Capital Fund Estimated Ending Fund Balance		\$ 4,132,740

2024 Proposed Capital Budget – Project Code Explanations

CI-41 Isolation Valve Maintenance: Project to ensure all isolation valves are in working order so that when needed the main can be shut down in sections to do repairs. This reduces the number of customers affected by any planned or emergency repair on the mainline or service connections. Project identified in the Asset Management Plan, funded by capital surcharges.

CI-44 Rebuild Pump Houses: Project to rebuild pump houses that are at the end of their useful lives. Asset Management Plan. Public Works Trust Fund Loan was obtained; this line item includes five pump house projects (Brown South Prairie, Garden Acres 1 and Marshall for three years (2021 – 2023)).

CI-50: Tanglewilde Mainline Replacement: This project includes replacement of water mains, valves, hydrants, and lateral lines. This project will be a multi-year project completed in seven (7) phases. District staff is pursuing external funding sources.

CI-62 Existing Treatment Replacements: Annual program to replace critical equipment needed for treatment on existing water systems. Project identified in the Asset Management Plan, funded by capital surcharges.

CI-63 Loma Vista New Treatment: This project includes the installation of treatment to remove iron and manganese. This is new infrastructure, funded by bond proceeds.

CI-65 Replace Plumbing/Pressure Tanks: Annual program to replace pressure tanks and plumbing in the pump houses. Project identified in the Asset Management Plan, funded by capital surcharges.

CI-66 Existing System Replacements: Annual program to replace water systems to enhance the life of the asset or solve issues identified by DOH as they arise. We can't always project where the failures will be. We analyze historical costs to determine the average cost and use this for miscellaneous projects. Project identified in the Asset Management Plan, funded by capital surcharges.

CI-68 Replace/Rehabilitate Wells: Annual program to replace or rehabilitate existing wells which could include total replacement, drilling deeper, scrubbing and cleaning well for better water production. Project identified in the Asset Management Plan, funded by capital surcharges.

CI-71 Electrical Controls Upgrades: Annual program to resolve issues with pumping controls and electrical wiring in pump houses. Project identified in the Asset Management Plan, funded by capital surcharges.

CI-75 Source and Service Meter Replacement: Annual program to replace service and source meters as needed. Project identified in the Asset Management Plan, funded by capital surcharges.

2024 Proposed Capital Budget – Project Code Explanations, continued

CI-76 Well and Booster Pump Replacement: Annual program to replace well and booster pumps. Project identified in the Asset Management Plan, funded by capital surcharges.

CI-89 Deschutes Glen Reservoir Replacement: This project includes replacing reservoir and pumphouse. Project identified in the Asset Management Plan, funded by capital surcharges.

CI-96 Sampling Stations: Project to install sampling stations on water systems to make it more efficient and accurate to take required water samples.

CI-98 New Meter Installation: Project to install meters at customer services where there was not previously a meter and where the customer has been paying the higher unmetered rate.

CI-100 Combine 4 Group A water systems in Thurston County (DWSRF): This project includes the combining of four Group A water systems to include a new reservoir, booster pumps and mainline. Drinking Water State Revolving Fund Loan (DWSRF) and Grant funding was obtained to complete this project. This project will require additional funding.

CI-102 Prairie Ridge Consolidation: This project includes the combining of three Group A water systems. District staff is pursuing external funding sources.

CI-105 Water System Emergency Preparedness: This project includes the installation of water trees and an earthquake early warning system. This is new infrastructure, funded by bond proceeds.

CI-106 Pattison Infrastructure Replacement and Upgrades (DWSRF): This project includes installing a new well, booster pump stations, and reservoir. Drinking Water State Revolving Fund Loan (DWSRF) and Grant funding was obtained to complete this project.

CI-109 PFOA/PFAS Treatment: This project includes the installation of treatment to remove Per- and polyfluoroalkyl substances (PFAS) at nine (9) water systems. These projects will require new infrastructure; District staff is pursuing external funding sources.

CI-110 Meadows Generator and Two Portable Generators: Project to acquire two (2) portable generators and install one (1) permanent generator at the Meadows Water System to reduce the delay in restoring power to operate water systems during an emergency. Federal Emergency Management Agency (FEMA) Hazard Mitigation grant was obtained to fund this project.

CI-111 Green Cove Culvert Replacement: Thurston County Public Works has determined the culvert carrying Green Cove Creek under Country Club Road NW is collapsing. This project will require a temporary water main is installed during construction to maintain service as well as installation of a new, permanent water main after construction is complete. District staff is pursuing external funding sources.

2024 Proposed Capital Budget – Project Code Explanations, continued

CI-112 District Chlorine Plant: This project includes the installation of a chlorine plant at the Pattison Christmas Tree well site. This is new infrastructure, funded by bond proceeds.

CI-113 Pattison Reservoir Expansion: This project is to expand the reservoir at Pattison Water System to provide water service for additional connections. This is new infrastructure, funded by bond proceeds and a community developer.

CI-114 Water Systems Chlorine Analyzers & Telemetry: This project includes the implementation of chlorine analyzers & telemetry system at water systems to allow District Management to monitor the chlorine residuals remotely. Adjustments to the chlorine levels will be performed in-person by the District's Field Operations Team. This is new infrastructure, funded by bond proceeds.

Contingency: This line item is reserved for contingency on all Asset Management Plan project estimates.

WM-1 Acquisition and Disposal of New Water Systems: Line item reserved to provide funding to evaluate water systems for acquisition. Project funded by bond proceeds.

WM-4 Water System Plan – Part B: Line item to track the cost of updates to the water system plans or small water system management plans for individual water systems. Project funded by capital surcharges.

WM-33 Easements: Line item for expenditures associated with the negotiation and recording of new easements for the District's water system infrastructure. Project funded by bond proceeds.

WM-38 Geographic Information System (GIS) Program: This line item is for the purchase of equipment needed for the District's GIS Program. Project funded by bond proceeds.

2024 Proposed Capital Budget Funding Sources

After projects are identified, it is the District's guiding principle for funding to first determine if the project should be funded with District reserves including capital surcharges, general facility charges, and water rate revenue. Next, District staff will research available funding through state agencies. As a last resort, the District will use available bond proceeds to fund projects.

Transfer from Water Fund Revenue Reserve: Amounts held in reserve from water revenues. In 2023, there may be a contribution transfer from the Water Revenue Reserve Fund.

Transfer from Capital Surcharge Funding: Amounts held in reserve from previous surcharge collection.

2020 Water Revenue Bond Proceeds: Amounts obtained from financing in January 2020 to use for acquisitions and capital funding.

General Facilities Charge (GFC) Fund: Current (2023) fee is \$5,000, paid by customers for new services. District Staff will recommend an increase to \$6,000 in 2024.

PWTF Loans: District was awarded and has accepted three (3) loans from the Public Works Trust Fund to drill new wells, rebuild pump houses and decommission old unused wells.

DWSRF Loans/Grant: The District was awarded and accepted loans with loan forgiveness from the Drinking Water State Revolving Fund for water system improvements.

FEMA Hazard Mitigation Grant: The District was awarded and has accepted a grant from the Federal Emergency Management Agency to install a generator at the Meadows, Group A water system and purchase two trailer mounted generators in preparation for water outage emergencies.

Proposed Additional Loan/Grant Funding Needed: The District will pursue outside sources of funding to complete this portion of the capital budget.