



CAPITAL WORKS PROJECTS 2024

Engineering, and
Parks, Recreation and
Community Services



INTRODUCTION

About this guide

This annual guide outlines capital projects scheduled throughout the year. It is intended as a reference for the public, staff, and Council to help illustrate Saanich needs and priorities in the areas of parks, transportation, water, sewer and facilities planning.

It's important to note that timelines and budgets are set at the beginning of year and may be adjusted if conditions change.

Project updates can be found by contacting us or going to Saanich.ca.

Questions?

Contact us at 250-475-1775 or email reception@saanich.ca



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Transportation

Shelbourne Street Improvement Project (SSIP) Phase 3: Pear Street to Garnet Road

Project Description

This project includes: full depth road reconstruction, installation of “all ages and abilities” cycling infrastructure, miscellaneous sidewalk improvements, and underground infrastructure upgrades on Shelbourne between Pear Street and Garnet Road

Construction Details

- 1.95km of new AAA (all ages and abilities) protected bike lanes with bike racks
- 940m of new or improved sidewalks with new benches
- 1 new pedestrian/bike signal and 1 upgraded existing ped/bike signal
- Conversion of 3 intersections to protected geometry
- 14 new bike and pedestrian crosswalks
- Up to 12 new or improved accessible curb let downs with tactile markers
- New highly visible road lines, improved lighting, and other safety improvements
- Approximately: 1100m of Watermain, 1200m of Drain main, 1200m of Sewer main
- Installation of lift station
- Landscaping and tree cells

How will this improve Saanich?

- Improved pedestrian and cycling infrastructure providing greater separation and priority for vulnerable road users within All-Ages and Abilities facilities
- Protected Intersections
- Transit stop upgrades
- Renewed road surface, road lines, and improved lighting

Start date: May 2024

Project duration: 18 Months

Project budget: \$17,400,000 (Co-funded by Drainage Capital, Water and Sewer Utilities)



Transportation

Sinclair Road Upgrade

Project Description

This project will see replacement of aging underground infrastructure, sidewalk and all ages and abilities cycling infrastructure, bus stop improvements, and crosswalks with flashing beacons, intersection improvements, and a full pavement overlay.

Construction Details

- Installation of 1360m of watermain
- Installation of 400m of storm drain main
- Installation of 488m of sewer main
- Installation of protected cycling infrastructure
- Installation of concrete sidewalks
- Installation of crosswalks equipped with rapid flashing beacons
- Bus Stop upgrades
- Intersection upgrades including a single-lane roundabout at Sinclair Road and Cadboro Bay Road
- Full pavement overlay

How will this improve Saanich?

- Improved pedestrian and cycling infrastructure providing greater separation and priority for vulnerable road users within All-Ages and Abilities facilities
- Improved pedestrian and cyclist activated crossings
- Improved surface drainage
- Renewed aging underground infrastructure
- Renewed road surface for vehicles

Start date: May 2024

Project duration: 18 Months

Project budget: \$15,700,000 (co-funded by Drainage Capital, Water and Sewer Utilities)



Transportation

Gorge Road and Tillicum Road Improvements

Project Description

This project will see pedestrian and cycling improvements along Gorge Road between Tillicum and Harriet and Tillicum between Gorge and Arena Way. This project will be coordinated with the City of Victoria to include installation of a new protected intersection at the Gorge and Harriet Intersection, fully protected intersection at Gorge and Tillicum and Tillicum and Arena Way.

Construction Details

- Installation of protected intersections at Gorge Road and Harriet Road, Gorge Road and Tillicum Road, and Tillicum Road and Arena Way
- New fully signalized intersection upgrades
- Protected cycling facilities on Gorge Road between Tillicum Road and Harriet Road
- Full pavement overlay

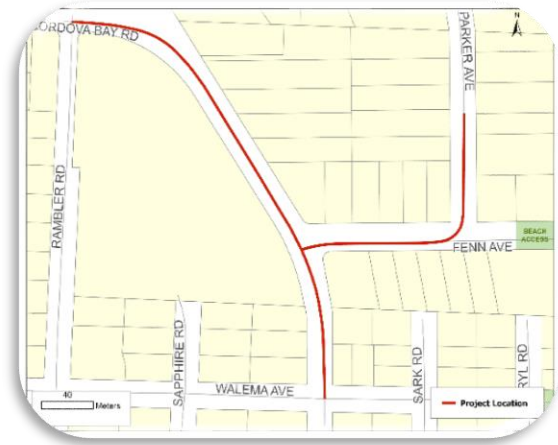
How will this improve Saanich?

- Improved pedestrian and cycling infrastructure providing greater separation and priority for vulnerable road users within All-Ages and Abilities facilities
- Improved pedestrian and cyclist activated crossings
- Upgraded aging infrastructure
- Renewed road surface for vehicles

Start date: Late 2024/Early 2025

Project duration: 18 months

Project budget: \$13,000,000



Transportation

Cordova Bay Road and Fenn Ave

Project Description

This project will see pedestrian cycling improvements along Cordova Bay Road between Walema Ave and Rambler Road and pedestrian improvements on Fenn Ave between Cordova Bay Road and 5250 Parker Ave.

Goals include creating a village feel by installing sidewalks with boulevards to separate pedestrians from traffic, boulevard trees to frame views and narrow perceived road widths, on street bike lanes separated from traffic where possible, improved pedestrian crosswalk locations, and pedestrian plaza spaces.

Construction Details

- Approx. 450m of concrete sidewalk separated, where possible, with non-mountable curb and drainage
- 1060 square meters of road widening on Cordova Bay Road
- 340 square meters of road widening on Fenn Ave
- Two raised crosswalks equipped with Rapid Flashing Beacons
- Full pavement overlay on Cordova Bay between Walema Ave and Rambler Road

How will this improve Saanich?

- Improved pedestrian and cycling infrastructure providing greater separation and priority for vulnerable road users within All-Ages and Abilities facilities
- Improved pedestrian activated crossings
- Renewed road surface for vehicles

Start date: Summer 2024

Project duration: 7 months

Project budget: \$3,000,000



Transportation

Richmond - Newton to Adanac Construction

Project Description

This project will see pedestrian and cycling improvements along Richmond Road between Newton and the municipal border with Victoria. The works will include improved bicycle facilities along Richmond Road with improved pedestrian and cycling crossings at Haultain Street and Kings Road. Improved wheelchair ramps at street crossings will improve accessibility. The works are coordinated with the City of Victoria and will include new asphalt and paint marking from Adanac Street to Carnarvon Street.

Richmond Construction Details

- Approx 430m of concrete sidewalks separated where possible
- 65m of bike lane
- 2 transit stop upgrades
- Installation of catch basins
- Crossing improvements and pavement overlay coordinated with the City of Victoria

How will this improve Saanich?

- Improved pedestrian and cycling infrastructure providing greater separation for vulnerable road users
- Improved pedestrian and cyclist activated crossings
- Better transit stop pads for accessibility
- Renewed road surface for vehicles

Start date: Summer 2024

Project duration: 7 months

Project budget: \$1,400,000



Transportation

Wilkinson - Greenlea to Quicks Bottom Construction

Project Description

This project will see pedestrian and cycling improvements along Wilkinson between Greenlea Drive and Quicks Bottom Park. Planned works include improved geometry for vehicles and defined painted bike lanes. The gaps in the sidewalk north of the Quicks Bottom pedestrian crossing will be completed as well.

Wilkinson Construction Details

- Approx. 230m of concrete sidewalk on the east side of the road
- Non mountable curb on the west side of the road with road widening
- Painted bike lanes on both sides of the road
- Retaining wall on east side of the road
- Installation of catch basins

How will this improve Saanich?

- Improved pedestrian and cycling infrastructure providing greater separation for vulnerable road users, including a defined bike lane for cyclists
- Improved pedestrian and cyclist activated crossing
- Renewed road surface for vehicles

Start date: Summer 2024

Project duration: 7 months

Project budget: \$1,300,000



Transportation

Chip Sealing – Various Locations

Project Description

The District of Saanich will be chip sealing 5 kilometres of rural roadway as part of the District's pavement rehabilitation program. Chip sealing is a road surface treatment method used to enhance the durability and longevity of asphalt pavements. It involves applying a layer of hot liquid asphalt to the road surface, followed by the placement of aggregate chips on top. These chips are then compacted into the asphalt to create a textured surface.

How will this improve Saanich?

- Waterproof the road surface by sealing small cracks to prevent water infiltration and further damage
- Provide skid resistance
- Rejuvenate aging pavements, extending their service life at a lower cost compared to other resurfacing methods.

Proposed Locations:

- Wilkinson Road - Santa Rosa to Interurban
- Prospect Lake Road - Viaduct to Estelline
- Sparton Road - Wray to Oldfield
- Meadowbrook Road
- Hector Road - Liberto to Interurban

Start date: Spring 2024

Project duration: 6 months

Project budget: \$640,000



Transportation

Forrester Street Sidewalk

Project Description

The Forrester Street Sidewalk project will include pedestrian and cyclist facility improvements on Forrester Street, from Richmond Road to Foul Bay Road. The pedestrian improvements include the installation of 380m of sidewalk, separated where possible, on the north side of Forrester Street. Traffic calming measures; including mid-block speed humps, mid-block curb extensions, and a traffic circle at Dean Ave; will reduce speeds and volumes to a level appropriate for a neighbourhood bikeway.

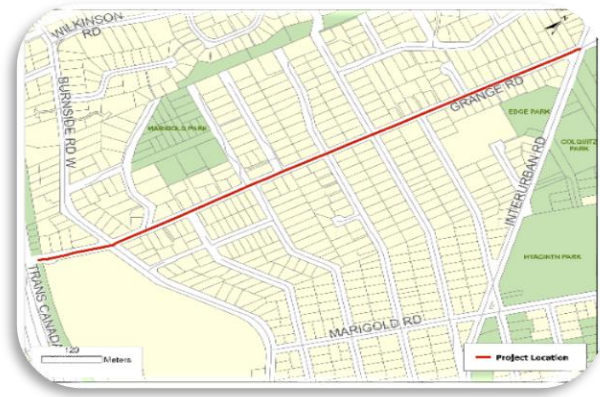
How will this improve Saanich?

- Improved pedestrian and cycling infrastructure providing greater separation and priority for vulnerable road users within All-Ages and Abilities facilities
- Improved pedestrian and cyclist activated crossings
- Reduce vehicle volumes and speeds through traffic calming measures including speed humps, a single-lane roundabout, and curb extensions
- Improved surface drainage

Start date: March 2024

Project duration: 6 months

Project budget: \$830,000



Transportation

Grange Road Upgrades

Project Description

Grange Road has been identified as a key street for improvement within the District's Active Transportation Plan due to the current infrastructure's poor condition, inclusion the Safe Routes to School, and linkage to the Galloping Goose Regional Trail. The planned work includes a 2-way cycle track and a complete sidewalk connection from Burnside Road West to the Galloping Goose, improved cycling and pedestrian connections across Burnside Road West, a continuous sidewalk up the east side of Grange Road from Burnside Road West to Interurban Road, a neighborhood bikeway on Grange Road with traffic calming measures, and an improved crossing for Interurban Road at Grange Road.

How will this improve Saanich?

- Improved pedestrian and cycling infrastructure providing greater separation and priority for vulnerable road users within All-Ages and Abilities facilities
- Improved pedestrian and cyclist activated crossings
- Reduce vehicle volumes and speeds through traffic calming measures including speed humps, curb extensions, and a speed reduction

Start date: Summer 2024

Project duration: 18 months

Project budget: \$1,900,000



Transportation

Seaton Road Upgrades - Phase 2

Project Description

The Seaton Road Upgrades - Phase 2 project encompasses enhancements to roadway, pedestrian, and cyclist infrastructure along Seaton Street from Burnside to Regina and on Regina Avenue from Seaton to Tillicum. The improvements include the introduction of over 1.2 km of sidewalks with accompanying concrete curbs and gutters for enhanced pedestrian safety and accessibility. Traffic calming measures; including mid-block speed humps, intersection and mid-block curb extensions, and a traffic circle at Regina; will reduce vehicle speeds and volumes to a level appropriate for a neighbourhood bikeway.

How will this improve Saanich?

- Enhances pedestrian and cyclist safety through the construction of separated sidewalks and traffic calming measures.
- Reduces vehicle volumes and speeds through added traffic calming measures.
- Promotes active transportation by improving connections to the cycling pathway beneath the Trans Canada Highway and the Galloping Goose Trail, aligning with the Active Transportation Plan.
- Supports the Official Community Plan's goal for safer, more connected communities, particularly benefitting those traveling to Hampton Park and Tillicum Elementary School.

Start date: March 2024

Project duration: 1 year

Project budget: \$1,500,000



Transportation

Albina Maddock Orillia Transportation

Project Description

This project aligns with the Active Transportation Plan, Safe Routes to School Program, Urban Forest Strategy, Climate Action Plan, and Resilient Saanich. This project will improve access and add amenities to the Tillicum School frontage through new traffic calming measures, sidewalks, crosswalks, boulevard trees, rain gardens, and street furniture. The new sidewalks, narrower roads and green infrastructure will improve the pedestrian experience around the school and support active modes of transportation used by students and staff.

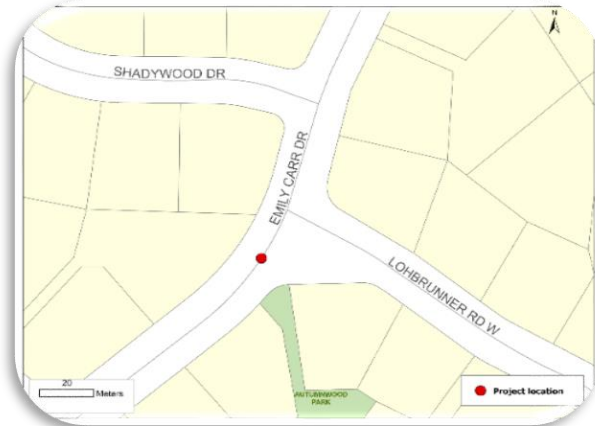
How will this improve Saanich?

- Promote active transportation, such as walking and riding to school, for families and future generation.
- Improved road safety for active transportation users as identified by the Safe Routes to School Program.
- More livable streets with shade from boulevard trees and gathering places with benches.
- Improved water quality with rain gardens filtering surface water prior to entering the storm drain system which connects to the Colquitz River.

Start date: Summer 2024

Project duration: 6 months

Project budget: \$3,100,000 (Co-funded by Drainage Capital, Sustainability, and Parks)



Transportation

Emily Carr Drive at Lohbrunner Road West Bus Stop & Crosswalk

Project Description

The intersection of Emily Carr Drive and Lohbrunner Road West has been identified by local residents as needing safety and accessibility improvements. This project will provide a safe, visible, and accessible crossing of Emily Carr Drive at this location for pedestrians accessing Autumnwood Park, transit, and the surrounding communities. Traffic calming measures will be implemented as part of this project in response to vehicle speed concerns. Planned improvement include median islands, accessible sidewalk ramps, new pavement markings, and lighting upgrades.

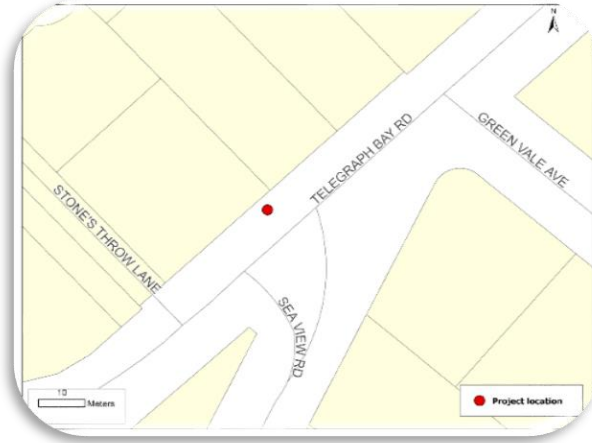
How will this improve Saanich?

- Provide a safe, visible, and accessible crossing of Emily Carr Drive
- Promote the use of public transportation through the installation of bus stop amenities and accessibility updates.
- Provide connectivity for pedestrians to existing sidewalk infrastructure with the installation of crosswalks.
- Improve road safety through traffic calming measures
- Reassigned road allowance to provide separated access for walkers and wheelers

Start date: March 2024

Project duration: 2 weeks

Project budget: \$180,000



Transportation

Telegraph Bay Road at Seaview Road Bus Stop & Crosswalk

Project Description

As part of the BC Transit Shelter Program, the Transportation Department will be preparing the northbound bus stop on Telegraph Bay Road at Seaview Road for the installation of a transit bus stop shelter. A raised boarding area for wheelchair accessibility will be installed next to the shelter pad. We also plan to install a crosswalk to connect pedestrians from the new bus stop pad to the existing sidewalk on the west side of Telegraph Bay Road. Changes to the intersection of Telegraph Bay at Seaview may be included as needed for the installation of a crosswalk and to provide separation to vulnerable road users.

How will this improve Saanich?

- Promote the use of public transportation through the installation of bus stop amenities and accessibility updates.
- Provide connectivity for pedestrians to existing sidewalk infrastructure with the installation of crosswalks.
- Reassigned road allowance to provide separated access for walkers and wheelers

Start date: March 2024

Project duration: 1 month

Project budget: \$120,000



Transportation

Richmond Road at McRae Avenue Bus Stop & Crosswalk

Project Description

The Richmond McRae Crosswalk Project will consolidate the existing bus stops at Woodley Road and Ernest Ave. The planned works include a marked crossing of Richmond Road at McRae Ave with flashing beacons, new sidewalk letdowns with curb extensions, and transit facility improvements incorporating a sidewalk extension, bus stop pads, and new shelters.

How will this improve Saanich?

- Provide a safe, visible, and accessible crossing of Richmond Road
- Promote the use of public transportation through the installation of bus stop amenities and accessibility updates.
- Provide connectivity for pedestrians to existing sidewalk infrastructure with the installation of crosswalks.
- Improve road safety through traffic calming measures

Start date: May 2024

Project duration: 1 month

Project budget: \$130,000



Transportation

SB Majestic Drive at Hawthorne Street Bus Stop & Crosswalk

Project Description

This project involves improving the existing north bound bus stop at Majestic and Hawthorne and relocating the existing south bound bus stop from Majestic Dr. at Dougall Ave to Hawthorn St. Both bus stops will have an accessible concrete landing pads which will be connected to the existing sidewalk along Majestic Drive. The north bound bus stop at Majestic and Hawthorne will be connected to the sidewalk with a raised crosswalk crossing Majestic Drive. The existing shelter will be re-used for the south bound bus stop relocated to Majestic Dr. and Hawthorne St.

How will this improve Saanich?

- Provide a safe, visible, and accessible crossing of Majestic Drive
- Promote the use of public transportation through the installation of bus stop amenities and accessibility updates.
- Provide connectivity for pedestrians to existing sidewalk infrastructure with the installation of crosswalks.
- Improve road safety through traffic calming measures
- Improve transit customer experience through accessibility upgrades and shelter installation

Start date: November 2024

Project duration: 1 month

Project budget: \$100,000



Transportation

Crosswalk Quick Builds – Various Locations

Project Description

The District of Saanich will be implementing safety and accessibility improvements to 10 crosswalk locations utilizing quick build principles. These improvements occur within the available road space and require minimal capital construction, making use of flexible and adjustable materials that allow for relatively quick implementation at a lower cost. Improvements may include treatments such as reallocating road space from motor vehicle lanes through the use of pavement markings and flexible delineators, lighting improvements, and upgrading pedestrian signals.

How will this improve Saanich?

- Address safety concerns at crosswalks identified as high use and higher risk based on factors such as vehicle volumes and speeds and accident history
- Enhance walkability by prioritizing pedestrian needs that will contribute to a more pedestrian-friendly streetscape and improve overall traffic safety

Proposed Locations:

- Wilkinson at Roy
- Interurban at Columbine
- Interurban at Colquitz Trail (south of Marigold)
- Carey at Columbine
- Carey at Seaton
- Harriet at Maddock
- Cedar Hill at Rowan
- Tattersall at Savannah
- Richmond at Knight
- Arbutus at Hobbs/Queenswood

Start date: January 2024

Project duration: 6 months

Project budget: \$150,000



Transportation

Protected Bike Lane Construction

Project Description

The District of Saanich will be installing protected bike lane barriers in existing buffered bike lanes, as well as adding new facilities to selected corridors with adequate width. The intent of the program is to improve safety by further separating cyclists from vehicles, and to promote cycling as a form of active transportation in the community.

How will this improve Saanich?

- Provide physical separation of the bike lane from motor vehicle traffic and acts as an additional buffer for pedestrians
- Create a designated space for all road users with an increase in comfort for cyclists and encourage new and less confident cyclists to use the facilities
- Reduce traffic speeds and volumes through traffic calming measures including narrowing lane widths and raised crosswalks

Proposed Locations:

- Cook Street east of Quadra Street
- Mann Avenue from Glanford Avenue to Wilkinson Road

Start date: March 2024

Project duration: 6 months

Project budget: \$900,000



Transportation

Durrance Bridge Replacement

Project Description

The Transportation Department plans to replace the aging and deteriorating timber frame bridge with a new precast concrete box stringer bridge. A temporary structure was previously installed to maintain access to the residents in the area while the replacement bridge was designed and construction of the new bridge could be scheduled.

How will this improve Saanich?

- The current structure will be replaced with one that meets current structural design requirements
- The bridge will have a barrier protected sidewalk for pedestrians

Start date: Summer 2024

Project duration: 4 months

Project budget: \$1,080,000

Transportation Capital Projects 2024

Transportation Upgrade Projects	Description	Estimate
Shelbourne Street Improvement Project (SSIP) Phase 3: Pear Street to Garnet Road	Funding for property acquisition and construction of phases 2 and 3.	\$17,400,000
Sinclair Road Upgrade	Funding for property acquisition and construction for the Sinclair Road Upgrade	\$15,700,000
Gorge Road and Tillicum Road Improvements	Construction funding for road improvements and improvements connections for cyclists and pedestrians	\$13,000,000
Cordova Bay Road and Fenn Ave	Construction funding for road improvements, bike lanes and sidewalk improvements	\$3,000,000
Wilkinson - Greenlea to Quicks Bottom Construction	Construction funding for road improvements, bike lanes, and sidewalk improvements	\$1,200,000
Richmond - Newton to Adanac Construction	Construction funding for bike lane and sidewalk improvements	\$1,300,000

Project	Description	Estimate
Pavement Renewal Program	Pavement Chip Seal, Milling and Overlay	\$640,000
Wilkinson Road - Santa Rosa to Interurban	Mill and Overlay	
Prospect Lake Road - Viaduct to Estelline	Chip Seal	
Sparton Road - Wray to Oldfield	Chip Seal	
Meadowbrook Road	Chip Seal	
Hector Road - Liberto to Interurban	Chip Seal	

Sidewalk Installation Program	Implementing priority sidewalk projects from Active Transportation Plan	\$7,330,000
Forrester Street - Richmond to Foul Bay		
Grange Road - Galloping Goose to Wilkinson		
Seaton Street/Hampton Road - Regina to Burnside		
Albina Maddock Orillia		

Crosswalk, Corner Ramps, and Bus Stop Installation Program	Installation of new crosswalks or improvements to existing crosswalks	\$680,000
Emily Carr at Lohbrunner	Bus Stop, Corner Ramp, Crosswalk	
Telegraph Bay at Seaview	Bus Stop, Corner Ramp, Crosswalk	
Richmond at McRae	Bus Stop, Crosswalk	
Majestic at Hawthorne	Bus Stop, Corner Ramp	
Quick Builds		

Signals, Poles, and Streetlights	Installation of new signals or Capital renewal/upgrading of existing	\$900,000
Street Light Program (LED Upgrade)		
Saanich at Tattersall		

Cycling Infrastructure Program	Implementing priority cycling projects from Active Transportation Plan	\$900,000
Protected Bike Lane Construction		

Bridge and Culverts	Replacement and rehabilitation of municipal bridges and culverts	\$1,575,000
Durrance Road Bridge		
Bridge Rehabilitations		



Water Resources

Albina-Gorge Utility Upgrades and Geotechnical Remediation

Project Description

This project was first initiated in 2019 due to sinkholes appearing along Albina Street north of Gorge Road West. This was related to a deep sanitary trunk that was built by tunnel excavation in the 1950's, where the wood beams of the tunnel excavation were collapsing. An interim solution using timber mats was used to stabilize the road to return it to service.

This project was also included in the 2023 Booklet. Since we anticipate construction of key components to begin in 2024, it is important to highlight the work. The current project involves a combination of underground utility and geotechnical improvements. The Albina Lift Station will be replaced and a new force main installed. Additionally, aging sanitary infrastructure will be replaced. Following the underground utility work, an injection grouting program will occur to provide permanent geotechnical remediation along Albina Street.

These infrastructure upgrades are being completed in parallel with transportation improvements along Tillicum Road and Gorge Road West.

How will this improve Saanich?

- The new Albina Lift Station and force main replace aging infrastructure and are designed for anticipated growth and development within the area.
- Geotechnical concerns under Albina Street from Gorge Road West to Obed Ave will be remediated.
- The work restores reliability to the sewer system.

Start date:	Q4 2024.
Project duration:	Estimated duration 9 Months
Project budget:	Total sanitary capital \$4,300,000
	Total drainage capital \$ 576,000



Water Resources

Arbutus Trunk Sanitary Main

Project Description

This 500mm sanitary trunk main is critical infrastructure which runs through private property in a statutory right-of-way. The trunk main requires spot repairs and partial replacement to maintain its functionality and protect the environment. Identification of larger scale repairs of this nature is one of the reasons that an on-going review of pipes and appurtenances is performed on District infrastructure.

How will this improve Saanich?

- Infrastructure repairs and partial replacement will improve flow in the pipe and reduce groundwater infiltration, resulting in increased capacity.
- The remaining useful life of the pipe will be increased.
- The functionality of a critical portion of the sanitary system will be ensured.

Start date: Q12025.

Project duration: 8 weeks.

Project budget: \$427,000



Water Resources

Belgrave Rd (Burnside Rd W to End) – Watermain Replacement

Project Description

The watermain on Belgrave Road has a history of breaks and requires a new fire hydrant. The increasing frequency of water main breaks and the lack of fire protection raises the priority of the asset for replacement.

How will this improve Saanich?

- Replacement will restore reliability of water delivery and reduce the risk of property damage from main breaks.
- Installation of a fire hydrant will increase fire protection.

Start date: Q3 2024.

Project duration: 4 weeks.

Project budget: \$145,000



Water Resources

Fenn Ave Storm Main Replacement

Project Description

The Fenn Ave storm main has capacity constraints, as well as experiences frequent blockages from debris contributing to more frequent maintenance. This project is anticipated to reduce the risk of localized flooding and reduce the reduce the maintenance frequency to a more appropriate level.

How will this improve Saanich?

- Increasing the pipe size will provide additional capacity allowing ease of water flow and decrease the risk of flooding.
- The new pipe will reduce the maintenance required to keep the main in working condition allowing those resources to be redeployed.
- The new pipe reduces the risk of property damage associated with surface water ponding and flooding.

Start date: Q4 2024.

Project duration: 4 weeks.

Project budget: \$123,000



Water Resources

Raymond Street Storm Sewer Replacement

Project Description

Ongoing rainwater ponding issues are occurring at the intersection of Raymond Street South and Mountfield Street during the winter months contributing to icy conditions on the roadway. Investigation of the area unearthed a previous unrecorded storm sewer that had collapsed. This project will improve sewer and other associated pipes and ditches during flow peak periods.

How will this improve Saanich?

- Sufficient storm main capacity will convey the rainwater in the piped system.
- The potential for rainwater ponding will be reduced with new pipes and appropriate surface grading.
- The new pipe reduces the risk of property damage associated with surface water ponding and flooding.

Start date: Q1 2025.

Project duration: 4 weeks.

Project budget: \$143,000

Water Resources – Water Main Capital

Replacement of Pressure Reducing Valves

Alderly Rd and Sayward Rd
Ferrie Rd and Quadra St
Foul Bay Rd and Lansdowne Rd
Wilkinson Rd and Burnside Rd W

Project Description

Pressure reducing valves (PRV) are a critical part of the water distribution system infrastructure, as they allow the District to modulate pressure in the system. This ensures that higher elevation neighbourhoods are provided with sufficient water pressure while low lying neighbourhoods are not over pressurized. These devices are complex and require regular maintenance, inspection and periodic replacement.

A prioritized list of PRV's requiring replacement or upgrading was created from information in the Water Supply Master Plan (WSMP) based on hydraulic capacity and from information provided by operating staff based on maintenance servicing challenges.

How will this improve Saanich?

- Maintaining the water distribution system's ability to regulate pressure is critical to providing all residents, institutions, and businesses with water.
- PRV replacement will increase the capacity of the water system.
- The remaining useful life of the assets will be reset.

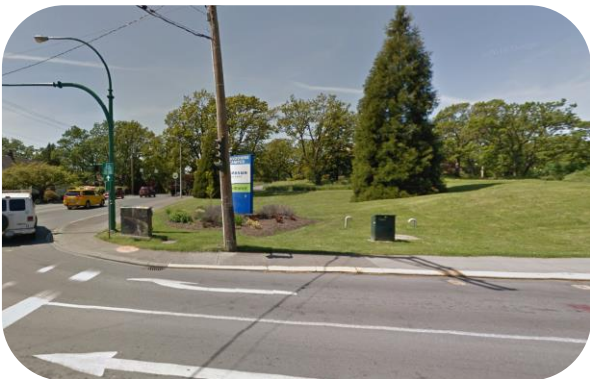
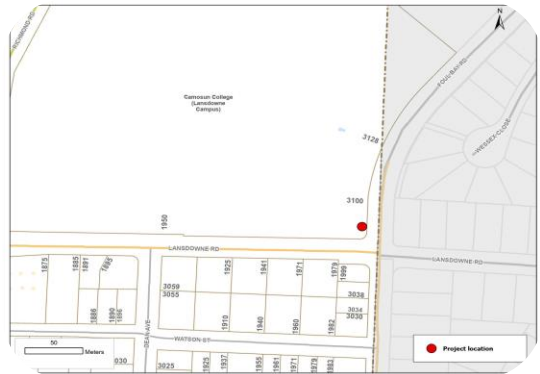
Start date: Q4 2024.

Project duration:

Alderly Rd at Sayward Rd	4 months.
Ferrie Rd at Quadra St	2-3 months.
Foul Bay at Lansdown Rd	2-3 months.
Wilkinson Rd at Burnside Rd W	2-3 months.

Project budget:

Alderly Rd at Sayward Rd	\$762,000
Ferrie Rd at Quadra St	\$567,000
Foul Bay at Lansdown Rd	\$587,000
Wilkinson Rd at Burnside Rd W	\$500,000



Sanitary Sewer Capital Projects 2024

Sanitary Replacement & Rehabilitation		
Project	Description	Estimate
Albina-Gorge Utility Upgrades, Geotechnical Remediation, 450m of Force main	Install 155m of 675mm diameter gravity pipe and 485m of 300mm diameter force main for Albina Lift Station, and a grouting program	\$4,300,000
Arbutus Trunk Main in ROW, Sage Lane to 2211 Arbutus Cove Lane	Replace 150m of pipe with 500mm diameter pipe	\$427,000
Foul Bay Sewer Services, Carnarvon St to Haultain St	Connecting 17 sewer services to main in Foul Bay Rd	\$205,000
Garnet Rd to Cedar Hill Rd to Shelbourne St	Replace 180m of 150mm with 200mm diameter pipe	\$415,000
Harriet Rd, Cadillac Ave to Carey Rd	Replace 100m of 150mm with 200mm diameter pipe	\$231,000
Hodgson PI SRW 4059 Hodgson PI	Replace 40m of 200mm with 200mm diameter pipe	\$93,000
Jamaica Rd SRW, Parkside Cres to 4288 Cedar Hill Rd	Replace 210m of 150mm with 200mm diameter pipe	\$484,000
Neil St, Dean Ave to Foul Bay Rd	Replace 160m of 150mm with 150mm diameter pipe	\$347,000
Saanich Rd, Blanshard St to Short St and Short St, Saanich Rd to Blanshard St	Replacing 330m of pipe with one size larger pipe	\$1,177,000
Sinclair Rd, Haro Rd to Hobbs St	Replacing 350m of 150mm with 200mm diameter pipe	\$1,095,000
SSIP Construction	Ph3 Shelbourne Construction	\$2,000,000
Operational upgrades to Lift Stations	Arbutus Lift Station – Kiosk and Backup Generator	\$200,000
Operational upgrades to Lift Stations	Ash Lift Station – Electrical Upgrades and SCADA	\$400,000
Wilkinson Lift Station	New Valve Chamber	\$400,000

Storm Drain Capital Projects 2024

Substandard Storm Drain Replacement & Rehabilitation		
Project	Description	Estimate
Albina-Gorge Utility Upgrades and Geotechnical Remediation	Replace 250m of 200/250mm with 250mm diameter pipe	\$576,000
Cedar Hill Rd, Gregory Pl Culvert inlet, and 3831 Cedar Hill Rd to 3868 Cedar Hill Rd	Replace 30m of 200/250mm with 250mm and 87m of 300mm diameter pipe	\$232,000
Fenn Ave SRW, Side Yard 1021 Fenn Ave	Replace 45m of 100mm, with 150mm diameter pipe	\$123,000
Hodgson Pl, 4060 Hodgson Pl to Kenneth St	Replace 90m of 250/300 with 300mm diameter pipe	\$240,000
Homer Rd and Kamloops Ave Loop to Seaton St	Replace 190m of 250mm with 250/300mm diameter pipe	\$493,000
Inez Dr, Gorge Rd W to 2890 Inez Dr	Replace 200m of 200/250mm, with 200/250mm diameter pipe	\$504,000
Jamaica Rd SRW, Rear Yard 1461 to 1467 Jamaica Rd, and Side Yard 1467 Jamaica Rd	Replace 110m of 150/200mm with 200mm diameter pipe	\$286,000
Neil St, Dean Ave to Foul Bay Rd	Replace 180m of 150/200mm with 200mm diameter pipe	\$467,000
Raymond St S, 3917 Raymond St S to 3906 Raymond St S.	Replace 55m of 250mm with 250mm diameter pipe	\$143,000
SSIP Construction	Ph3 Shelbourne Construction	\$1,500,000
Wascana St, Maddock Ave to Burnside Rd W	Replace 270m of with 250mm diameter pipe	\$700,000
Wray Creek	Cleaning and remediation of creek bed	\$500,000

Water Facilities Capital Projects 2024

Water Facilities Replacement & Rehabilitation		
Project	Description	Estimate
Belgrave Rd, Burnside Rd W to End	Replace 95m of 100mm with 100mm diameter pipe	\$145,000
Cedar Hill, Mortimer St to Cedar Hill X Rd, and Cedar Hill, Garnet Rd to McKenzie Ave	Replace 380m of 150mm with 200mm, phase 2.	\$625,000
Del Monte Ave, Walema Ave to Del Monte PI	Replace 90m of 100mm with 200mm, and 140m of 200mm with 200mm diameter pipe	\$378,000
Douglas St - Saanich Rd to 3329 Douglas, and Audley St from Douglas St to End	Replace 204m of 300mm with 300mm on Douglas St and 105m of 150mm with 150mm diameter pipe on Audley St	\$613,000
Harriet Rd, Cadillac Ave to Carey Rd, and Carey Rd, Harriet Rd to Ravine Way and to 17 Cadillac Ave.	Replace 125m of 100mm with 150mm and 200m of 150mm with 200mm and 75m of 300mm with 300mm	\$657,000
Piedmont Dr, Santa Clara Ave to Del Monte Ave	Replace 310m of 100mm with 150mm diameter pipe	\$473,000
Quadra St, Cook St to Holmes St	Replacement of 345m of 150mm with 200mm diameter pipe	\$761,000
Reynolds Rd, Cumberland Rd to Cedar Hill X Rd	Replacement of 380m of 150mm with 200mm pipe	\$742,000
Sinclair Rd, Finnerty Rd to Cadboro Bay	Replacement of 1350m of pipe	\$1,968,000
Sherwood Rd, Arbutus Rd to MacDonald Dr E, and MacDonald Rd W, Sherwood Rd to Queenswood Dr	Replace 700m of 100/150mm 200mm pipe	\$1,068,000
SSIP - Construction	Ph3 Shelbourne Construction	\$1,100,000
Wascana St, Obed Ave to Burnside Rd W	Replace 540m of 150mm with 150mm diameter pipe	\$824,000
PRV Replacement – Foul Bay at Lansdowne	PRV Replacement	\$587,000



Municipal Facilities

Pearkes – HVAC Upgrades

Project Description

This project will decarbonize the facility operations by installing new heat pumps, electric dehumidifiers, and adding a heat recovery ventilation system. The project will increase the energy efficiency of the building by upgrading major HVAC components and reduce GHG emissions by electrifying the heating and dehumidification for the majority of the facility.

Overall, the project will reduce the facility greenhouse gas (GHG) emissions by approximately 85% or 296 tonnes of carbon dioxide equivalent annually, making a significant contribution to our corporate and community GHG emissions reduction targets and commitment to 100% renewable energy, showcasing sustainable building design to our region and beyond.

How will this improve Saanich?

- Renew aging infrastructure
- Reduce GHG emissions

Start date: Spring 2024

Project duration: 16 months

Project budget: \$4,187,000



Municipal Facilities

Green & Inclusive Cedar Hill Recreation Centre

Project Description

This project includes HVAC upgrades, lightings upgrades, glazing replacement, and accessibility improvements. The primary goals are to reduce building energy use (approximately 37%), reduce GHG emissions by approximately 73 tonnes of carbon dioxide equivalent annually, and improve climate resiliency and accessibility. This project is funded in part by the Government of Canada through a Green and Inclusive Community Buildings Program grant (\$2,394,467.14).

How will this improve Saanich?

- Reduce energy use and GHG emissions
- Improve accessibility to this community recreation facility
- Improve climate resiliency by adding cooling to key programming areas

Start date: Spring 2024

Project duration: 18 months

Project budget: \$3,573,000



Municipal Facilities

Saanich Commonwealth Place 2024 Mechanical Upgrades

Project Description

This project is a multi-year phased design to upgrade the mechanical systems at Saanich Commonwealth Place to reduce the facility's carbon footprint by 90% and create a pathway for a world class carbon neutral facility. In 2024, the main heating, ventilation, and dehumidification system for the aquatic area of the building will be replaced. Pool pumps will be replaced, and final commissioning of the new biomass boiler system will be completed.

How will this improve Saanich?

- Renew aging infrastructure
- Increase reliability in critical building systems
- Increase energy efficiency and reduce GHG emissions

Start date: March 2024

Project duration: 12 months (HVAC for aquatic area phase)

Project budget: \$10,264,000



Municipal Facilities

Fire Station #2 Redevelopment

Project Description

The redeveloped Fire Station #2 located at 4595 Elk Lake Dr. will see the replacement of the existing 1978, 3,800 ft² facility with a two storey, mass timber structure of 22,000 ft². In addition to accommodating added crews in future years, this post-disaster facility will be built to LEED Gold Standards, Energy Step Code level 2 and the CaGBC's Zero Carbon Building Standard.

How will this improve Saanich?

- Increase Fire Suppression equipment storage capacity.
- Improve services delivery and operational efficiencies.
- Significantly contribute to the District's GHG reduction targets.

Start date: January 2024

Project duration: 27 months

Project budget: \$44,628,854

Facilities Capital Projects 2024

Facilities 2024 Projects		
Project	Description	Estimate
Facilities Roof Replacement	2024 program budget for roof replacements and major roof repairs	\$150,000
Facility Accessibility Assessment and Improvements	Facility accessibility assessments and targeted improvements supported by \$90,000 grant	\$140,000
Fire Hall #2 - Redevelopment	Redevelopment of Fire Hall 2	\$44,629,000
Gordon Head Recreation Centre Fire Alarm System	Renew building fire alarm system	\$139,000
Green and Inclusive Cedar Hill Recreation Centre	HVAC upgrades, lightings upgrades, glazing replacement, and accessibility improvements	\$3,573,000
Minor Projects	2024 budget for renewal of facility systems and components	\$577,700
Municipal Hall - Administration Office Renovation	Renovations for Administrative Office and Legislative Services	\$328,000
Strategic Facilities Master Plan Update	Update of 2018 Strategic Facilities Master Plan. Upon direction from Steering Committee, further analysis and review of Police accommodations and Municipal Campus may be approved.	\$375,000
Municipal Hall – Vault, Office Reno and Restructure	Office renovations and vault storage modifications for Finance	\$200,000
Municipal Hall – Concrete Repair	Exterior concrete repairs and protective coatings for the structure	\$535,600
Pearkes – HVAC Upgrades	Replaced mechanical equipment and electrify systems	\$4,187,000
Public Safety Building - EV Chargers	8 Level 2 charging stations and associated electrical infrastructure	\$370,500
Saanich Commonwealth Place - Replace Mechanical Systems	Multi-year project to replace and upgrade the mechanical systems	\$10,264,000
Saanich Operation Centre Redevelopment	Budgeted consultant fees for Re-zoning, Public Procurement and advancement of Redevelopment project	\$7,379,400
Saanich Operations Centre - EV Charges	Feasibility study and work to support future EV chargers at the SOC	\$125,000



Parks

Streetscape Traffic Island/Display Beds, Drainage and General Landscaping

Project Description

Over 700 horticultural garden beds exist on medians, boulevards/ neighbourhood cul-de-sacs as well as in parks. Complete renovation or repair of the landscaping is required on a routine basis. Work involves removing the remnant landscape material and replacing it with new soil (including compost from the Greener Garbage Collection Program) and sustainable plant material, leaf and wood mulch.

General park landscaping encompasses the renovation of areas that have been damaged due to general park use or from necessary maintenance/construction work. As a result, reseeding, sodding, replanting or drainage work may be required.

How will this improve Saanich?

- Remove invasive plants and weeds and improve appearance of shrub displays
- Reduced maintenance requirements
- Lower water and irrigation needs
- Increased biodiversity
- Help build relationships within the community
- Enhance the quality of park spaces for the enjoyment of park visitors
- Efficiencies in storing, enhancing and reusing soils from project to project reduce fees required for disposal and soil purchase

Start date: Winter and Fall 2024

Project duration: 8 months

Project budget: \$175,000

Secondary budget: \$10,607 additional funds from the DCC program



Parks Irrigation Program

Irrigation Program

Project Description

Work will be ongoing to upgrade and maintain safe and playable sports fields, passive turf areas, horticultural displays and tree drip systems throughout the year. This is a multi-year program and includes major repairs or renovations periodically required.

How will this improve Saanich?

Our irrigation systems support many important park assets including our beautiful horticulture displays, sports fields, tree planting and natural area initiatives.

- New and/or repaired systems are more efficient and reduce water consumption
- Ensures proper plant health which reduces maintenance requirements
- Ensures safer and more reliable playfield surfaces

Start date: Spring 2024

Project duration: 8 months

Project budget: \$100,000



Natural Areas Program

Natural Areas Restoration

Project Description

Natural Areas projects focus on restoring, enhancing and protecting the flora and fauna biodiversity within our natural state parks. Planting of native trees, shrubs and herbaceous plants, while controlling the invasive species, will help protect the sensitive ecosystems throughout Saanich. Our riparian restoration sites support the instream fish habitat and creek bank stabilization restoration projects.

Restoration projects include planting, decommissioning unsanctioned trails, habitat protective fencing installation and stream/riparian restoration to improve salmon habitat, reduce erosion and rehabilitate lost riparian diversity. Approved management plans initiate the implementation of natural areas projects.

Key projects for 2024 include:

- Instream restoration along Colquitz River/Gabo Creek,
- Protective fencing to protect sensitive habitat/restoration sites,
- Continue our commitment to the UN Decade on Ecological Restoration by restoring and maintaining Garry Oak ecosystems,
- Planting of native trees, shrubs, and herbaceous plants in riparian and other restoration sites

How will this improve Saanich?

- Significant enhancements and protection of Saanich's urban forest and natural areas
- Improve ecosystem values and biodiversity for wildlife and park users
- Build community partnerships and support Natural Intelligence
- Enhance/protect fish and amphibian habitat, bird nesting and protect species at risk

Start date: Throughout 2024

Project duration: 12 months

Project budget: \$335,000



Park Parking Lot and Roads

Cedar Hill Park Derby Road Parking Lot & Derby Road Connector

Project Description

Based on a recommendation in the Cedar Hill Park management Plan, approved by Council in 2020, design and preliminary work will begin on the Derby trail connector. The project will review pedestrian, car, golf cart and bicycle access through the Derby parking lot, as well how active transportation is managed through the golf course plaza and tee off zones.

How will this improve Saanich?

The Derby parking lot largely serves golfers using the Cedar Hill golf course plus the Derby trail connector bisects the park and is the only bicycle route through Cedar Hill Park. Due to aging infrastructure and popularity of the golf course as well as this trail route this area requires redesign, repairs and upgrades. The project support initiatives in the Cedar Hill Park Management Plan, as well as the Active Transportation Plan contributing to:

- Increased safety for parking lot and trail users by reducing conflict
- Increased public enjoyment and use of multi-use trail (including golf cart access)

Start date: 2024

Project duration: 12 months

Project budget: \$400,000

Secondary budget: Depending on design this project may require funds from future capital plans.



Park Washroom Program (Buildings)

New washroom buildings

Project Description

Implement the 2024 portion of the Parks Washroom Operations and Capital Plan:

- New prefabricated 'flush' washroom to be purchased and installed at Rithet's Bog

How will this improve Saanich?

Washrooms are a key component of the community's use and enjoyment of our parks; they influence where people will visit and how long they can stay. Washrooms enable the greatest number of people to use our parks and trails and support initiatives in both the Active Transportation Plan and the Older Adult Strategy.

- Washrooms are frequently requested by park and trails users
- Fulfills municipal commitments in the Older Adult Strategy
- Improves service delivery to residents
- Extends the life of existing park assets

Start date: Spring 2024

Project duration: 8 months

Project budget: \$350,000

Secondary budget: Park Infrastructure Capital funds have monies for washroom upgrades in existing park buildings in addition to one-time resource requests for new facilities such as pit toilets. Washrooms are added based on the Council approved Washroom Operations and Capital Plan (2019).



Parks Infrastructure

Park Buildings, Footbridges, Structures, Signage and Site Furniture

Project Description

Upgrade and replace degraded infrastructure to ensure the safety and integrity of the built environment in parks. This category includes park structures, benches, picnic tables, signage, trail maker posts, bicycle racks, footbridges, water fountains, garbage bins, lighting, and handrails.

How will this improve Saanich?

Park infrastructure provides important amenities that benefit those using our parks along with:

- Ensuring public safety for wooden bridges, stairs, and buildings
- Extending the lifespan of these park assets
- Increasing the enjoyment of parks through new/improved site amenities

Start date: April 2024

Project duration: 8 months

Project budget: \$574,500

Secondary budget: \$16,574 DCC Funding



Parks Parking Program

Park Parking and Plaza Improvements

Project Description

Improve and upgrade degraded parking lot infrastructure to improve safety, parking lot circulation, environmental best management practices and accessibility requirements.

How will this improve Saanich?

Parking lots serve as key access points to park amenities and recreation facilities which are accomplished through:

- Enhanced parking lot circulation
- Augmented safety considerations
- Improved accessibility enhancements
- Integration of stormwater management areas and other best management practices
- Adjusted circulation routes for pedestrians and cyclists
- Reduced maintenance cost over the long term

Start date: April 2024

Project duration: 8 months

Project budget: \$400,000



Parks Trails Program

Park trail (gravel only) resurfacing and repairs

Project Description

Resurfacing of the over 100 kilometers of gravel trails is completed based on a quadrant system. Existing trail conditions are inspected and repaired as needed every four years in each quadrant. In 2024 Quadrant 4 (East Saanich) will be addressed which include:

- Necessary repairs to trails including drainage (storm/flood damage), root heave and potholes.
- Implementation of Active Transportation Initiatives

How will this improve Saanich?

Gravel trails throughout Saanich Parks provide an abundance of recreation options from walking, running, biking and hiking. Trail enhancements fulfill the initiative in the Older Adult Strategy to improve trails for easier walking for seniors.

- Increased safety for trail users by reducing potential trip/fall injury
- Enhanced public enjoyment and use of multi-use or walking trails especially during wet conditions

Start date: April 2024

Project duration: 8 months

Project budget: \$574,500

Secondary budget: \$16,574 DCC Funding



PKOLS (Mount Douglas) Park

PKOLS (Mount Douglas) Park Transmitter Fund work

Project Description

Trail Program

- Continue to make priority trail renovations and closures
- Ongoing repairs to erosion and drainage concerns

How will this improve Saanich?

- Increase visitor experiences by providing better access
- Enhances trails and improved safety for visitors to PKOLS
- Protect the natural environment of PKOLS
- Cost sharing with PKOLS – Mount Douglas Conservancy

Start date: Spring/Summer/Fall 2024

Project duration: 10 months

Project budget: \$0,00

Secondary budget: \$50,000 (from the PKOLS (Mount Douglas) Transmitter Fund)



Playground Program

Accessibility and Safety Enhancements

Project Description

Playgrounds that do not comply with basic accessibility needs or have assets that have outlived their useful life are regularly redesigned and upgraded including:

- Exchanging sand safety surfacing with wood 'fibre' safety surfacing
- Replacing worn out play equipment components at playgrounds as required
- Installing accessibility upgrades as required
- Renovating playgrounds at both Maynard and Claremont-Goddard Parks

How will this improve Saanich?

This program fulfills the initiative of the Youth Development Strategy to create recreation opportunities that meet the needs of those with accessibility challenges and disabilities by:

- Ensuring playgrounds are in safe working order
- Replacing playground assets as their useful life span expires
- Enhancing accessibility for all ages and abilities
- Reducing maintenance costs

Start date: April 2024

Project duration: 8 months

Project budget: \$785,000



Parks ‘Court’ Program

Sport Court Renovations (Tennis, Pickleball, Multi-Use Courts etc.)

Project Description

Regular work is required to support optimal playing conditions which could include:

- Restoration of base material
- New paving
- Painting and resurfacing
- Line painting
- Drainage upgrades
- Upgrades to the courts at the Viewmont Tennis Club (cost-share)

How will this improve Saanich?

Hard surface sport courts are a popular recreation asset for those who enjoy active sports. To increase playability and promote active recreation in our parks we must:

- Maintain courts so they are in safe working condition
- Ensure this valuable recreation amenity continues to operate as intended
- Address maintenance issues to prevent costly upgrades in the future

Start date: May 2024

Project duration: 5 months

Project budget: \$285,000



Parks Sports Field Program

Sport Field Renovations (turf soccer and baseball)

Project Description

Work will be ongoing to upgrade and maintain safe and playable sports fields throughout the year. This is a multi-year program and includes major repairs or renovations periodically required.

How will this improve Saanich?

Our sports fields are a popular park amenity and serve a broad demographic of our community with recreation opportunities for health and wellness.

- Increased field playability and safety for sports users
- Reduced maintenance costs

Start date: May 2024

Project duration: 5 months

Project budget: \$50,000



Urban Forestry Program

Urban Forestry and Tree Planting

Project Description:

A major goal of the Council approved Urban Forest Strategy is no net canopy loss and to plant replacement trees for all public trees that are removed.

Support key initiatives including:

- Park tree planting, boulevard tree planting and establishment, replacing bylaw protected trees lost to development of land and streets.
- Hosting Tree Appreciation Day, Earth Day and National Tree Day community events
- Increase tree planting numbers up to 2000 annually (current target) to help combat climate change. This will be achieved through a variety of programs on public lands.
- Increasing our Partnership Tree Planting program
- Cedra Hill golf course re-greening. Quick Bottom Arboretum tree planting.

How will this improve Saanich?

- Work toward the goal of “no net canopy loss” of the Urban Forestry Strategy
- Significant enhancements to Saanich’s urban forest
- Build community interest and raise awareness of the value of Saanich’s urban forest
- Beautify and diversify boulevards and medians, increasing public enjoyment
- Help mitigate climate change, Trees reduce the urban heat island effect through evaporative cooling and reducing the amount of sunlight that reaches parking lots and buildings.
- Many species of wildlife depend on trees for habitat. Tree provide food, protection and homes for many birds and mammals

Start date: Fall/Winter 2024

Project duration: 6 months (Jan-March and Sept -Dec)

Project budget: \$270,000

Secondary budget: With an additional \$50,000 from the Urban Forest Reserve



PRCS Recreation

Recreation Centres – Operational Improvements

Project Description

The District's five community recreation centres are aging and over 2023-24, use has increased beyond pre-pandemic levels. As such, each centre will be undertaking a number of projects to update, replace and improve centre features to ensure high levels of service will be maintained. Projects include flooring replacements, accessibility updates, tennis building insulation, expansion of sport courts, and design work for updating service and program areas.

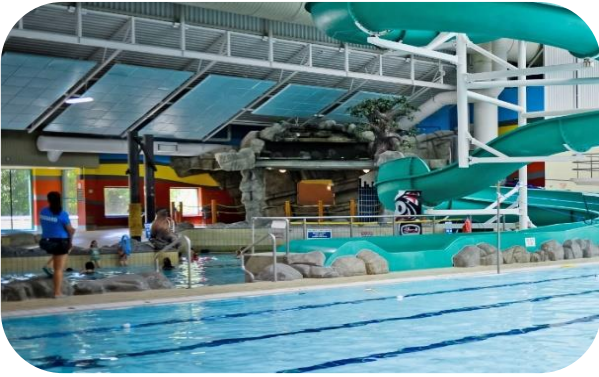
How will this improve Saanich?

- Ongoing improvements to Recreation Centres are critical to keeping centres operational and up-to-date so that community members can continue to access services.

Start date: Ongoing

Project duration: 6 – 24 months

Project budget: \$574,000



PRCS Recreation

Design Work: SCP Aquatic & Administration - South Side Expansion

Project Description

Since construction of Saanich Commonwealth Place in 1993, population and demand for aquatic and recreational services have increased significantly. The south side of the facility houses amenities such as the hot tub, steam room, sauna and café space. The size and capacity of the hot zones have not kept up with modern standards for accessibility, and nor are sufficient to handle the high demand from the community for the area. Design work will consider the re-design of the hot zone area, as well as the potential to remodel the café and administrative area above to accommodate for the increased administrative space required to support SCP, address workspace issues raised in the YES Survey, and increase pro-shop size leading to improved revenue generation.

How will this improve Saanich?

- Updating the hot zone area will increase accessibility features in the facility and access to more people with a range of physical abilities.
- Redesign of administrative areas and café will allow for more efficient use of space for both staff and the public.

Start date: **September 2024**

Project duration: One Year

Project budget: \$100,000