



## **CAPITAL BUDGET 2023**

## **CAPITAL FORECAST FOR 2024 TO 2032**

## **CAPITAL PROJECT INFORMATION SHEETS**

**CAPITAL BUDGET 2023  
CAPITAL FORECAST FOR 2024 TO 2032  
CAPITAL PROJECT INFORMATION SHEETS  
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# Introduction

## Project Classification:

The following Asset Classifications are denoted beside the individual project names on the Capital Budget Summary Sheets:

- a. **Asset Improvement and Maintenance (AIM):** These projects address existing capital assets and major repairs, rehabilitation and maintenance to City infrastructure, facilities and equipment. These investments are intended to support expected asset life cycles, replacement of assets that have reached their end of life, and technological upgrades to assist in managing operating costs and improve the delivery of services.
- b. **Strategic Investments (SI):** These projects include those that improve, enhance or expand the level of service offered to the community.
- c. **Growth (G):** Projects that primarily address increased demand for services or are to stimulate growth and development of the City.

It is important to note that it is possible for some projects to be related to more than one of the above categories; however, these projects have been included in the category for which the majority of the project falls.

## Project Funding from Other Sources:

Projects that have either reserve and/or third party funding allocated are identified by either an (R) or an (F) beside the project name on the Capital Budget Summary Sheets as follows:

- a. **Reserve Funding (R):** The City has certain reserves that can be used to fund capital projects. Some reserves that are included in the annual budget include Development Charges and Merrick Landfill.
- b. **Grants and Other Funding Sources (F):** Projects included in the capital budget that have associated grants identified are only to proceed if the grant is approved. Otherwise, the project will be cancelled, or funds will be reallocated from other projects with Council approval.

**2023 GENERAL  
CAPITAL BUDGET SUMMARY AND  
CAPITAL FORECAST FOR 2024 TO 2032**

**2023 General Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

	Project Classification	LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total	
<b>Community Services</b>														
3508PR - Parks and Playgrounds - New Neighbourhood Parks	R	G	-	-	-	200,000	-	-	196,000	-	-	196,000	-	<b>592,000</b>
3509PZ - Official Plan 5 Year Review and Study Update		SI	335,906	-	-	-	-	-	245,169	-	-	-	-	<b>581,075</b>
3702PR - Waterfront Building Rehab and Development		G	-	-	-	-	-	196,000	1,764,000	-	-	-	-	<b>1,960,000</b>
3711RF - City of North Bay Community and Recreation Centre	F	G	7,958,000	21,823,780	21,823,780	-	-	-	-	-	-	-	-	<b>51,605,560</b>
3823FD - Fire Master Plan	R	SI	-	-	-	88,200	-	-	-	-	-	-	-	<b>88,200</b>
3938PR - Olmsted Beach - Boat Launch Replacement		AIM	-	-	-	-	49,000	-	539,000	-	-	-	-	<b>588,000</b>
3942RF - Omischl Sports Complex - Synthetic Turf Replacement		AIM	-	588,000	-	-	-	588,000	-	-	-	-	-	<b>1,176,000</b>
4013FD - Fire Station 1 - Roof Replacement		AIM	-	300,000	-	-	-	-	-	-	-	-	-	<b>300,000</b>
4119RF - Arenas - Memorial Gardens East and West Concourse Roof Replacement		AIM	-	-	-	-	-	-	25,000	500,000	-	-	-	<b>525,000</b>
4122PR - Recreational Feasibility		SI	-	-	98,000	-	-	-	-	-	-	-	-	<b>98,000</b>
4206RF - Pete Palangio Parking Lot Rehab		AIM	-	-	627,450	-	-	-	-	-	-	-	-	<b>627,450</b>
4312PR - North Bay Canada Place	F	SI	-	294,000	-	-	-	-	-	-	-	-	-	<b>294,000</b>
4327FD - Fire Station 2 and 3 Asphalt Replacement		AIM	-	155,000	-	-	-	-	-	-	-	-	-	<b>155,000</b>
4328FD - HVAC Upgrades at Fire Station 1		AIM	-	35,000	-	-	-	-	-	-	-	-	-	<b>35,000</b>
4329FD - Dormitory Upgrades to Fire Stations 1, 2 and 3		AIM	-	80,000	-	-	-	-	-	-	-	-	-	<b>80,000</b>
4331FD - Next Generation 911 Upgrades		AIM	-	42,505	-	-	-	-	-	-	-	-	-	<b>42,505</b>
4333PR - Arts Community – Operation Action Plan		SI	-	50,000	-	-	-	-	-	-	-	-	-	<b>50,000</b>
6704RF - Pete Palangio Rehab Program 2023 On-going		AIM	-	196,000	196,000	196,000	196,000	245,169	245,169	245,169	245,169	245,169	245,169	<b>2,255,014</b>
6707RF - Recreation Facilities Rehab and Development 2023 On-going		AIM	-	539,000	539,000	539,000	539,000	539,000	539,000	539,000	539,000	539,000	539,000	<b>5,390,000</b>
6708RF - Omischl Sports Complex Rehab Program 2023 On-going		AIM	-	60,760	62,720	64,680	66,640	68,600	70,560	73,500	73,500	73,500	73,500	<b>687,960</b>
6709PR - Parks and Playground Rehab Program 2023 On-going		AIM	-	295,960	304,780	313,600	322,420	331,240	340,060	352,800	352,800	352,800	352,800	<b>3,319,260</b>

**2023 General Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

		Project Classification	LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
<b>Community Services</b>														
6710PR - Waterfront Rehab Program 2023 On-going		AIM	-	130,340	134,260	138,180	142,100	146,020	149,940	156,800	156,800	156,800	156,800	<b>1,468,040</b>
6711PR - Central City Rehab Program 2023 On-going		AIM	-	82,320	84,280	86,240	88,200	90,160	92,120	94,080	94,080	94,080	94,080	<b>899,640</b>
6713PR - Trail and Supporting Hard Surfaces Rehab 2023 On-going		AIM	-	250,880	258,720	266,560	284,200	292,040	299,880	308,700	308,700	308,700	308,700	<b>2,887,080</b>
6714PR - Parks Equipment Replacement Program 2023 On-going		AIM	-	49,980	51,940	53,900	55,860	57,820	59,780	61,740	61,740	61,740	61,740	<b>576,240</b>
6729RF - Memorial Gardens Rehab 2023 On-going		AIM	-	294,000	294,000	220,652	245,169	269,686	294,203	294,203	294,203	294,203	294,203	<b>2,794,522</b>
6730FD - Fire Facilities Management Program 2023 On-going		AIM	-	-	92,674	-	97,822	-	102,971	-	102,971	-	102,971	<b>499,409</b>
6739FD - Fire Equipment Replacement 2023 On-going		AIM	-	82,320	61,740	82,320	61,740	46,305	64,827	82,320	82,320	82,320	82,320	<b>728,532</b>
6740FD - Fire Bunker Gear Replacement Program 2023 On-going		AIM	-	-	-	-	238,525	-	-	-	-	-	-	<b>238,525</b>
6758PR - Parks Master Plan 2023 On-going		SI	-	196,000	196,000	196,000	196,000	196,000	196,000	196,000	196,000	196,000	196,000	<b>1,960,000</b>
6759PR - Parks Building Rehab 2023 On-going		AIM	-	98,000	102,900	102,900	105,350	105,350	107,800	107,800	112,700	112,700	112,700	<b>1,068,200</b>
<b>Total Community Services</b>			<b>8,293,906</b>	<b>25,643,845</b>	<b>24,928,244</b>	<b>2,548,232</b>	<b>2,688,026</b>	<b>3,171,390</b>	<b>5,331,479</b>	<b>3,012,112</b>	<b>2,619,983</b>	<b>2,713,012</b>	<b>2,619,983</b>	<b>83,570,212</b>
<b>Corporate Services</b>														
6736GG - System Technology Program 2023 On-going		AIM	-	810,300	689,500	621,301	638,573	656,579	675,318	779,820	712,190	729,995	748,245	<b>7,061,821</b>
<b>Total Corporate Services</b>			<b>-</b>	<b>810,300</b>	<b>689,500</b>	<b>621,301</b>	<b>638,573</b>	<b>656,579</b>	<b>675,318</b>	<b>779,820</b>	<b>712,190</b>	<b>729,995</b>	<b>748,245</b>	<b>7,061,821</b>
<b>General Government</b>														
4335GG - Administration and Overhead		SI	-	574,229	588,584	603,299	618,381	633,840	649,686	665,929	682,576	699,641	717,131	<b>6,433,296</b>
4336GG - Asset Management Transition		SI	-	215,390	274,129	293,386	302,541	309,407	316,748	322,856	331,907	341,795	351,045	<b>3,059,204</b>
8023FL - Vehicle and Equipment Life Cycle 2023	R,F	AIM	-	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	3,000,000	<b>30,000,000</b>
<b>Total General Government</b>			<b>-</b>	<b>3,789,619</b>	<b>3,862,713</b>	<b>3,896,685</b>	<b>3,920,922</b>	<b>3,943,247</b>	<b>3,966,434</b>	<b>3,988,785</b>	<b>4,014,483</b>	<b>4,041,436</b>	<b>4,068,176</b>	<b>39,492,500</b>
<b>Infrastructure and Operations</b>														
3302ST - Trunk Sewer Rehab - Pinewood Fingers Creek		AIM	-	-	-	-	196,000	-	-	-	-	-	-	<b>196,000</b>
3405PK - Parking Property Acquisition Program	R	SI	300,000	-	300,000	-	-	300,000	-	-	-	294,000	-	<b>1,194,000</b>
3506ST - Stormwater Management - Overland Flow Control Study		AIM	-	-	-	98,000	-	-	-	-	-	-	-	<b>98,000</b>
3518PR - King's Landing Commercialization of Waterfront	F	SI	756,180	-	980,000	4,998,000	4,998,000	4,998,000	-	-	-	-	-	<b>16,730,180</b>
3700RD - Seymour St. - Station to Wallace - Widening and Signals	R,F	G	-	176,400	-	3,332,000	-	-	-	-	-	-	-	<b>3,508,400</b>

**2023 General Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

	Project Classification		LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
<b>Infrastructure and Operations</b>														
3700ST - Seymour St. - Station to Wallace - Widening and Signals	F	G	-	68,600	-	1,274,000	-	-	-	-	-	-	-	1,342,600
3701RD - Norman/Chapais Connection Watermain		SI	-	-	-	-	98,000	-	-	-	-	1,274,000	-	1,372,000
3701ST - Norman/Chapais Connection Watermain		SI	-	-	-	-	39,200	-	-	-	-	490,000	-	529,200
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction	R,F	G	600,000	-	3,860,000	-	-	-	-	-	-	-	-	4,460,000
3801RD - McKeown Ave. Widening - Gormanville to Cartier		G	5,640,000	1,078,000	-	-	-	-	-	-	-	-	-	6,718,000
3801ST - McKeown Ave. Widening - Gormanville to Cartier		G	775,000	392,000	-	-	-	-	-	-	-	-	-	1,167,000
3802RD - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall		AIM	-	-	-	-	-	-	343,000	-	6,468,000	-	-	6,811,000
3802ST - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall		AIM	-	-	-	-	-	-	78,400	-	1,470,000	-	-	1,548,400
3810RD - Main St. - Gormanville to Memorial		G	-	-	-	-	-	-	166,600	-	3,136,000	-	-	3,302,600
3810ST - Main St. - Gormanville to Memorial		G	-	-	-	-	-	-	58,800	-	1,078,000	-	-	1,136,800
3812RD - Lakeshore Dr. (ONR Overpass)		AIM	-	-	-	-	24,500	-	-	-	-	245,000	-	269,500
3813RD - Trout Lake Rd. (ONR Overpass)		AIM	-	-	-	-	24,500	-	-	-	-	245,000	-	269,500
3814RD - Lees Road Reconstruction		AIM	2,952,983	196,000	-	-	-	-	-	-	-	-	-	3,148,983
3815RD - Trout Lake Road Retaining Wall Replacement		AIM	50,000	-	-	-	-	-	-	-	-	-	2,450,000	2,500,000
3815ST - Trout Lake Road Retaining Wall Replacement		AIM	15,000	-	-	-	-	-	-	-	-	-	245,000	260,000
3818RD - Premier Pumping Station Replacement		AIM	650,000	-	-	343,000	-	-	-	-	-	-	-	993,000
3830GD - Merrick Landfill Gas (LFG) Collection Infrastructure	R	G	685,824	-	-	-	150,000	637,000	-	-	147,000	637,000	-	2,256,824
3900RD - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain		SI	-	-	-	107,800	2,646,000	-	-	-	-	-	-	2,753,800
3900ST - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain		SI	-	-	-	49,000	686,000	-	-	-	-	-	-	735,000
3908ST - Trunk Sewer Rehab - Eastview Tributary System		AIM	-	-	98,000	-	980,000	-	-	-	-	-	-	1,078,000
3909RD - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement		AIM	-	-	-	127,400	-	-	-	-	-	-	2,352,000	2,479,400

**2023 General Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

	Project Classification	LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
<b>Infrastructure and Operations</b>													
3909ST - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	49,000	-	-	-	-	-	-	882,000	<b>931,000</b>
3910ST - Chippewa Creek and Airport Heights Stormwater Retention	G	50,000	-	2,450,000	-	-	-	-	-	-	-	-	<b>2,500,000</b>
3919RD - Metcalfe St - Laurier to End	AIM	40,000	-	-	-	686,000	-	-	-	-	-	-	<b>726,000</b>
3919ST - Metcalfe St - Laurier to End	AIM	30,000	-	-	-	490,000	-	-	-	-	-	-	<b>520,000</b>
3920RD - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	6,791	-	-	68,600	1,274,000	-	-	-	-	-	-	<b>1,349,391</b>
3920ST - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	676	-	-	19,600	392,000	-	-	-	-	-	-	<b>412,276</b>
3926GD - Merrick Landfill Lifecycle Extension Environmental Assessment	R	AIM	500,000	-	-	-	-	490,000	1,568,000	5,782,000	-	-	<b>8,340,000</b>
3932RD - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	110,000	-	784,000	784,000	-	-	-	-	-	-	-	<b>1,678,000</b>
3932ST - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	30,000	-	392,000	392,000	-	-	-	-	-	-	-	<b>814,000</b>
3934RD - Main St. Rehabilitation	F	AIM	6,036,096	1,600,000	-	-	-	-	-	-	-	-	<b>7,636,096</b>
4005RD - Pinewood Park Drive Continuous Left Turn Lane (Lakeshore Drive to Decaire Road)	G	-	-	88,200	-	-	2,058,000	-	-	-	-	-	<b>2,146,200</b>
4007RD - Road Safety Strategy/Master Plan	AIM	25,000	196,000	-	-	-	-	-	-	-	-	-	<b>221,000</b>
4016TR - Transit Terminal Rehabilitation	F	AIM	297,500	86,250	-	-	-	-	-	-	-	-	<b>383,750</b>
4018TR - Transit Fleet Garage and Bus Barn Upgrades: Health and Safety	F	AIM	308,512	10,000	63,000	-	-	-	-	-	-	-	<b>381,512</b>
4020TR - New Bus Shelters and Digital Signage	F	SI	282,240	-	158,761	-	-	-	-	-	-	-	<b>441,001</b>
4021TR - Construction of Sidewalks for Transit Routes	F	SI	4,848,697	1,712,497	1,983,491	1,286,650	-	-	-	-	-	-	<b>9,831,335</b>
4032RD - O'Brien St. Reconstruction - Cassells to Ski Club	AIM	-	-	-	-	401,800	-	-	2,254,000	-	-	2,254,000	<b>4,909,800</b>
4032ST - O'Brien St. Reconstruction - Cassells to Ski Club	AIM	-	-	-	-	147,000	-	-	980,000	-	-	980,000	<b>2,107,000</b>
4034RD - Road Condition Inspection	AIM	-	-	-	245,000	-	-	-	245,000	-	-	-	<b>490,000</b>
4101GG - City Hall Accessibility Upgrades	AIM	-	-	980,000	-	-	-	-	-	-	-	-	<b>980,000</b>
4106RD - Queen St. Culvert Replacement	AIM	-	-	-	-	588,000	-	-	-	-	-	-	<b>588,000</b>



**2023 General Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

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<b>Infrastructure and Operations</b>													
4107RD - Tower Dr. Hump Removal	AIM	-	490,000	-	-	-	-	-	-	-	-	-	490,000
4109RD - Trout Lake Rd. & Laurentian Ave. Intersection Reconstruction	F	AIM	-	-	-	-	-	-	-	-	196,078	3,431,400	3,627,478
4115PK - Innovation Hub	G	110,000	-	980,000	-	-	-	-	-	-	-	-	1,090,000
4115RD - Innovation Hub	G	40,000	-	686,000	-	-	-	-	-	-	-	-	726,000
4115ST - Innovation Hub	G	20,000	-	392,000	-	-	-	-	-	-	-	-	412,000
4121RD - Lamorie St. Bridge Rehab	AIM	775,000	245,000	-	-	-	-	-	-	-	-	-	1,020,000
4124RD - Francis St. Sewer Upsizing (Surrey to Greenhill)	G	-	-	-	-	107,800	-	-	2,058,000	-	-	-	2,165,800
4124ST - Francis St. Sewer Upsizing (Surrey to Greenhill)	G	-	-	-	-	68,600	-	-	1,274,000	-	-	-	1,342,600
4125RD - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R	AIM	-	-	607,600	-	3,332,000	3,332,000	-	-	-	-	7,271,600
4125ST - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R	AIM	-	-	137,200	-	735,000	735,000	-	-	-	-	1,607,200
4201PK - Downtown Parking Facilities	SI	-	-	-	-	-	-	490,000	3,381,000	-	-	-	3,871,000
4203GD - Leachate Management - Future Cells	R	G	-	250,000	-	2,156,000	-	-	245,000	-	2,156,000	-	4,807,000
4205RD - Climate Change Initiatives	F	SI	50,000	50,000	-	-	-	-	-	-	980,000	-	1,080,000
4207ST - Stormwater Outfall Repair and Rehabilitation	AIM	-	49,000	196,000	-	-	-	-	-	-	-	-	245,000
4208RD - Four Mile Lake Rd. Extension to Highway 11	F	G	-	607,600	-	-	-	11,564,000	-	-	-	-	12,171,600
4209GG - City Hall Customer Service Centre & Lobby Renovations	AIM	-	-	-	343,137	343,137	-	-	-	-	-	-	686,274
4210GD - New Organic Waste Drop-off and Hazardous Waste Depot	AIM	-	-	735,000	-	-	-	-	-	-	-	-	735,000
4215RD - Local Road Reconstruction	AIM	-	-	-	-	-	-	294,000	-	-	2,940,000	-	3,234,000
4216RD - Memorial Rehabilitation	AIM	-	-	-	-	-	-	-	-	-	1,470,000	-	1,470,000
4217TR - Transit Electrification	AIM	-	-	-	-	-	-	-	-	-	1,960,000	-	1,960,000
4300RD - Airport Industrial Park Expansion	R,F	G	-	578,200	-	-	-	6,860,000	4,116,000	-	-	-	11,554,200

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	Project Classification	LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
<b>Infrastructure and Operations</b>													
4300ST - Airport Industrial Park Expansion	F	G	-	49,000	-	-	-	490,000	294,000	-	-	-	833,000
4301RD - Roadside Guide rails and Retaining Walls - Inspection and Upgrade		AIM	-	392,000	-	-	-	-	-	-	-	-	392,000
4302RD - Pearson St. and Bank St. Culvert Replacements		AIM	-	9,800	-	147,000	-	-	-	-	-	-	156,800
4302ST - Pearson St. and Bank St. Culvert Replacements		AIM	-	39,200	-	882,000	-	-	-	-	-	-	921,200
4303RD - Premier Sidewalk and Resurfacing	F	AIM	-	-	1,666,000	-	-	-	-	-	-	-	1,666,000
4304ST - Airport Road Storm Sewer		AIM	-	24,500	588,000	-	-	-	-	-	-	-	612,500
4305PK - Carousel Parking Lot Paving	F	AIM	-	-	-	-	-	-	-	-	-	980,000	980,000
4306PR - Mini-Train Underpass Pedestrian Walkway	F	AIM	-	-	-	-	-	-	-	-	-	1,470,000	1,470,000
4307RD - Champlain & McKeown Intersection Improvements		AIM	-	-	-	1,470,000	-	-	-	-	-	-	1,470,000
4308RD - Main St. Alleyway Drainage Improvements	F	AIM	-	-	9,800	-	245,000	-	-	-	-	-	254,800
4309SL - Oak Pedestrian Crossing		AIM	-	-	-	-	100,000	-	-	-	-	-	100,000
4310RD - Pearce St. Extension to Tower Dr.	F	G	-	88,200	-	1,666,000	-	-	-	-	-	-	1,754,200
4310ST - Pearce St. Extension to Tower Dr.	F	G	-	44,100	-	882,000	-	-	-	-	-	-	926,100
4311RD - Trout Lake Road Resurfacing (Highway 11/17 to Connaught)	F	AIM	-	-	98,000	3,234,000	-	-	-	-	-	-	3,332,000
4316ST - Storm Sewer Condition Assessment		AIM	-	-	490,000	-	-	-	-	-	-	-	490,000
4319RD - Jane St. Reconstruction (Timmins to Algonquin)		AIM	-	-	-	-	-	196,000	-	-	3,626,000	-	3,822,000
4319ST - Jane St. Reconstruction (Timmins to Algonquin)		AIM	-	-	-	-	-	78,400	-	-	1,372,000	-	1,450,400
4330TR - Construction of Sidewalks for Transit Routes - Phase 2	F	SI	-	295,338	-	-	-	2,419,655	1,533,899	1,645,483	2,179,721	-	8,074,096
4334ST - Storm Sewer Rehabilitation		AIM	-	-	-	-	2,940,000	-	-	-	-	-	2,940,000
4401RD - Sage Rd. Reconstruction to Collector Standard	F	G	-	-	-	-	-	-	245,000	-	-	3,835,290	4,080,290
4401ST - Sage Rd. Reconstruction to Collector Standard	F	G	-	-	-	-	-	-	88,200	-	-	1,274,000	1,362,200

**2023 General Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

	Project Classification	LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
<b>Infrastructure and Operations</b>													
4500RD - Franklin & John Trunk Watermain	SI	-	-	-	-	284,200	-	2,646,000	-	-	-	2,646,000	<b>5,576,200</b>
4500ST - Franklin & John Trunk Watermain	SI	-	-	-	-	107,800	-	980,000	-	-	-	980,000	<b>2,067,800</b>
6692RD - City Share of Development Costs 2023 On-going	R	G	-	324,380	334,180	343,980	354,760	365,540	376,320	387,100	387,100	387,100	<b>3,647,560</b>
6693RD - Asphalt Resurfacing 2023 On-going	AIM	-	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,600,000	3,800,000	3,800,000	<b>36,400,000</b>
6694RD - Asphalt Sheeting 2023 On-going	AIM	-	143,080	143,080	143,080	143,080	143,080	147,000	147,000	147,000	147,000	147,000	<b>1,450,400</b>
6696RD - Pedestrian Safety Program 2023 On-going	AIM	-	94,080	94,080	94,080	143,080	143,080	147,000	151,900	151,900	151,900	151,900	<b>1,323,000</b>
6697RD - Road Culvert Replace/Rehab 2023 On-going	AIM	-	216,580	216,580	216,580	216,580	216,580	223,440	225,400	225,400	225,400	225,400	<b>2,207,940</b>
6698RD - Rural Road Rehab 2023 On-going	AIM	-	718,340	718,340	718,340	718,340	718,340	739,900	739,900	739,900	739,900	739,900	<b>7,291,200</b>
6699SL - Traffic Control Signal Upgrade 2023 On-going	AIM	-	216,580	216,580	216,580	216,580	216,580	223,440	225,400	225,400	225,400	225,400	<b>2,207,940</b>
6700RD - Sidewalk Replacement Program 2023 On-going	AIM	-	118,580	118,580	118,580	216,580	216,580	223,440	225,400	225,400	225,400	225,400	<b>1,913,940</b>
6701RD - Bridge Rehab 2023 On-going	AIM	-	234,220	241,080	247,940	255,780	263,620	271,460	284,200	284,200	294,000	294,000	<b>2,670,500</b>
6702RD - Downtown Roads Maintenance 2023 On-going	AIM	-	51,940	109,760	112,700	115,640	119,560	123,480	127,400	127,400	127,400	127,400	<b>1,142,680</b>
6703PK - Parking Equipment Program 2023 On-going	AIM	-	-	-	122,500	-	-	122,500	-	-	122,500	122,500	<b>490,000</b>
6705MR - King's Landing and Marina Rehab Program 2023 On-going	AIM	-	147,000	171,500	196,000	196,000	98,000	98,000	98,000	98,000	98,000	98,000	<b>1,298,500</b>
6712PR - City Hall Grounds Rehab Program 2023 On-going	AIM	-	237,160	166,719	-	174,565	-	182,410	94,080	94,080	98,000	98,000	<b>1,145,014</b>
6715RF - Aquatic Centre Rehab Program 2023 On-going	AIM	-	102,900	107,800	112,700	117,600	122,500	127,400	132,300	132,300	132,300	132,300	<b>1,220,100</b>
6716PK - Parking Lot Maintenance and Improvement Program 2023 On-going	AIM	-	49,000	49,000	49,000	49,000	53,900	53,900	58,800	58,800	63,700	63,700	<b>548,800</b>
6717TR - Transit Buildings Capital Program 2023 On-going	AIM	-	29,400	31,850	34,300	35,035	39,200	39,200	39,200	39,200	44,100	49,000	<b>380,485</b>
6718GG - City Hall Building Rehab 2023 On-going	AIM	-	294,000	294,000	142,100	147,000	151,900	294,000	294,000	294,000	294,000	294,000	<b>2,499,000</b>
6728RD - Design Work Next Year's Projects 2023 On-going	AIM	-	157,780	162,680	167,580	172,480	177,380	182,280	186,200	186,200	186,200	186,200	<b>1,764,980</b>
6728ST - Design Work Next Year's Projects 2023 On-going	AIM	-	17,640	17,640	18,620	18,620	19,600	19,600	19,600	19,600	19,600	19,600	<b>190,120</b>

**2023 General Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

	Project Classification	LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
<b>Infrastructure and Operations</b>													
6732RD - Asset Management 2023 On-going	AIM	-	24,500	49,000	49,000	49,000	49,000	49,000	49,000	49,000	49,000	49,000	465,500
6733ST - Storm Sewer Flushing and Outfall Maintenance 2023 On-going	AIM	-	81,340	83,300	86,240	89,180	92,120	95,060	98,000	98,000	98,000	98,000	919,240
6741ST - Ditch Enclosure 2023 On-going	AIM	-	196,000	196,000	196,000	294,000	294,000	302,820	303,800	303,800	303,800	303,800	2,694,020
6746RD - Public Works Building Maintenance 2023 On-going	AIM	-	49,000	49,000	49,000	49,000	49,000	50,960	53,900	53,900	53,900	53,900	511,560
6747RD - Equipment Replacement 2023 On-going	AIM	-	9,800	9,800	9,800	9,800	9,800	9,800	9,800	9,800	9,800	9,800	98,000
6750ST - Infrastructure Modelling 2023 On-going	AIM	-	-	-	9,800	-	-	-	9,800	-	-	-	19,600
6752SL - Street Light Replacement 2023 On-going	AIM	-	4,900	4,900	4,900	9,800	9,800	9,800	14,700	14,700	14,700	14,700	102,900
6754RD - Engineering Data and Equipment 2023 On-going	SI	-	19,600	19,600	19,600	19,600	19,600	19,600	19,600	19,600	19,600	19,600	196,000
6756RD - Interlocking Brick Sidewalk & Retaining Wall Replacement 2023 On-going	AIM	-	98,000	98,000	98,000	98,000	98,000	98,000	98,000	98,000	98,000	98,000	980,000
<b>Total Infrastructure &amp; Operations</b>		<b>25,985,499</b>	<b>15,963,485</b>	<b>25,281,301</b>	<b>31,875,987</b>	<b>25,526,637</b>	<b>41,444,815</b>	<b>24,798,709</b>	<b>25,556,963</b>	<b>27,159,401</b>	<b>26,025,068</b>	<b>26,704,000</b>	<b>296,321,865</b>
<b>Service Partners</b>													
6483AA - Cassellholme Redevelopment	SI	2,025,000	1,750,000	2,000,000	2,800,000	3,250,000	3,802,000	3,802,000	3,802,000	3,802,000	3,802,000	3,802,000	34,637,000
6719OC - Capitol Centre 2023 On-going	AIM	-	260,000	305,000	265,000	275,000	275,000	200,000	200,000	200,000	200,000	200,000	2,380,000
6720PD - North Bay Police Services 2023 On-going	F AIM	-	1,652,200	1,271,000	1,370,000	1,336,000	940,000	1,830,900	761,000	761,000	3,835,000	4,101,000	17,858,100
6721LB - North Bay Public Library 2023 On-going	AIM	-	490,196	490,196	490,196	490,196	490,196	490,196	490,196	490,196	490,196	490,196	4,901,960
6737AT - North Bay Jack Garland Airport 2023 On-going	AIM	-	595,000	549,500	5,400,000	600,000	565,000	550,000	582,000	565,000	595,000	575,000	10,576,500
6749CA - North Bay Mattawa Conservation Authority 2023 On-going	AIM	-	1,105,000	1,105,000	1,105,000	1,105,000	1,105,000	1,105,000	1,105,000	1,105,000	1,105,000	1,105,000	11,050,000
<b>Total Service Partners</b>		<b>2,025,000</b>	<b>5,852,396</b>	<b>5,720,696</b>	<b>11,430,196</b>	<b>7,056,196</b>	<b>7,177,196</b>	<b>7,978,096</b>	<b>6,940,196</b>	<b>6,923,196</b>	<b>10,027,196</b>	<b>10,273,196</b>	<b>81,403,560</b>
<b>Total General Capital Budget</b>		<b>36,304,405</b>	<b>52,059,645</b>	<b>60,482,454</b>	<b>50,372,401</b>	<b>39,830,354</b>	<b>56,393,227</b>	<b>42,750,036</b>	<b>40,277,876</b>	<b>41,429,253</b>	<b>43,536,707</b>	<b>44,413,600</b>	<b>507,849,958</b>
<b>Reserve Funding (R)</b>													
3405PK - Parking Property Acquisition Program		(300,000)	-	(300,000)	-	-	(300,000)	-	-	-	-	-	(900,000)
3508PR - Parks and Playgrounds - New Neighbourhood Parks		-	-	-	(200,000)	-	-	-	-	-	-	-	(200,000)
3518PR - King's Landing Commercialization of Waterfront		-	-	-	(300,000)	(300,000)	(300,000)	-	-	-	-	-	(900,000)
3700RD - Seymour St. - Station to Wallace - Widening and Signals		-	-	-	(300,000)	-	-	-	-	-	-	-	(300,000)
3711RF - City of North Bay Community and Recreation Centre		(3,000,000)	-	(1,000,000)	-	-	-	-	-	-	-	-	(4,000,000)

**2023 General Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>Total</b>
<b>Reserve Funding (R)</b>												
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction	-	-	(339,000)	-	-	-	-	-	-	-	-	(339,000)
3823FD - Fire Master Plan	-	-	-	(45,000)	-	-	-	-	-	-	-	(45,000)
3830GD - Merrick Landfill Gas (LFG) Collection Infrastructure	(650,000)	-	-	-	(150,000)	(345,000)	-	-	-	(250,000)	-	(1,395,000)
3926GD - Merrick Landfill Lifecycle Extension Environmental Assessment	(500,000)	-	-	-	-	-	(500,000)	-	-	-	-	(1,000,000)
4125RD - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	-	-	-	(130,000)	-	-	-	-	-	-	-	(130,000)
4125ST - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	-	-	-	(70,000)	-	-	-	-	-	-	-	(70,000)
4203GD - Leachate Management - Future Cells	-	(250,000)	-	(1,445,000)	-	-	-	-	-	(1,120,000)	-	(2,815,000)
4300RD - Airport Industrial Park Expansion	-	(196,954)	-	-	-	-	-	-	-	-	-	(196,954)
6692RD - City Share of Development Costs 2023 On-going	-	(51,288)	-	-	-	-	-	-	-	-	-	(51,288)
8023FL - Vehicle and Equipment Life Cycle 2023	-	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(2,500,000)	(25,000,000)
<b>Total Reserve Funding</b>	<b>(4,450,000)</b>	<b>(2,998,242)</b>	<b>(4,139,000)</b>	<b>(4,990,000)</b>	<b>(2,950,000)</b>	<b>(3,445,000)</b>	<b>(3,000,000)</b>	<b>(2,500,000)</b>	<b>(2,500,000)</b>	<b>(3,870,000)</b>	<b>(2,500,000)</b>	<b>(37,342,242)</b>
<b>Grants and Other Funding Sources (F)</b>												
3518PR - King's Landing Commercialization of Waterfront	(581,149)	-	-	(3,400,000)	(3,400,000)	(3,400,000)	-	-	-	-	-	(10,781,149)
3700RD - Seymour St. - Station to Wallace - Widening and Signals	-	(112,000)	-	(1,618,250)	-	-	-	-	-	-	-	(1,730,250)
3700ST - Seymour St. - Station to Wallace - Widening and Signals	-	(29,750)	-	(240,000)	-	-	-	-	-	-	-	(269,750)
3711RF - City of North Bay Community and Recreation Centre	(2,500,000)	(17,613,384)	(8,164,632)	-	-	-	-	-	-	-	-	(28,278,016)
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction	(500,000)	-	(1,050,000)	-	-	-	-	-	-	-	-	(1,550,000)
3934RD - Main St. Rehabilitation	(2,993,225)	(690,451)	-	-	-	-	-	-	-	-	-	(3,683,676)
4016TR - Transit Terminal Rehabilitation	(153,744)	(81,872)	-	-	-	-	-	-	-	-	-	(235,616)
4018TR - Transit Fleet Garage and Bus Barn Upgrades: Health and Safety	(266,232)	(7,333)	(56,198)	-	-	-	-	-	-	-	-	(329,763)
4020TR - New Bus Shelters and Digital Signage	(256,966)	-	(156,419)	-	-	-	-	-	-	-	-	(413,385)
4021TR - Construction of Sidewalks for Transit Routes	(3,211,776)	(1,138,908)	(1,319,135)	(855,696)	-	-	-	-	-	-	-	(6,525,515)
4109RD - Trout Lake Rd. & Laurentian Ave. Intersection Reconstruction	-	-	-	-	-	-	-	-	-	-	(3,000,000)	(3,000,000)

**2023 General Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

Project Classification	LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total	
<b>Grants and Other Funding Sources (F)</b>													
4205RD - Climate Change Initiatives	(25,000)	(25,000)	-	-	-	-	-	-	-	-	-	(50,000)	
4208RD - Four Mile Lake Rd. Extension to Highway 11	-	-	-	-	-	(7,800,000)	-	-	-	-	-	(7,800,000)	
4300RD - Airport Industrial Park Expansion	-	-	-	-	-	(4,666,668)	(2,800,000)	-	-	-	-	(7,466,668)	
4300ST - Airport Industrial Park Expansion	-	-	-	-	-	(333,334)	(200,000)	-	-	-	-	(533,334)	
4303RD - Premier Sidewalk and Resurfacing	-	-	(1,155,048)	-	-	-	-	-	-	-	-	(1,155,048)	
4305PK - Carousel Parking Lot Paving	-	-	-	-	-	-	-	-	-	-	(333,333)	(333,333)	
4306PR - Mini-Train Underpass Pedestrian Walkway	-	-	-	-	-	-	-	-	-	-	(500,000)	(500,000)	
4308RD - Main St. Alleyway Drainage Improvements	-	-	-	-	(166,667)	-	-	-	-	-	-	(166,667)	
4310RD - Pearce St. Extension to Tower Dr.	-	-	-	(1,500,000)	-	-	-	-	-	-	-	(1,500,000)	
4310ST - Pearce St. Extension to Tower Dr.	-	-	-	(800,000)	-	-	-	-	-	-	-	(800,000)	
4311RD - Trout Lake Road Resurfacing (Highway 11/17 to Connaught)	-	-	-	(3,000,000)	-	-	-	-	-	-	-	(3,000,000)	
4312PR - North Bay Canada Place	-	(50,000)	-	-	-	-	-	-	-	-	-	(50,000)	
4330TR - Construction of Sidewalks for Transit Routes - Phase 2	-	(216,572)	-	-	-	(1,588,191)	(1,010,667)	(1,082,858)	(1,443,810)	-	-	(5,342,098)	
4401RD - Sage Rd. Reconstruction to Collector Standard	-	-	-	-	-	-	-	-	-	(283,905)	-	(283,905)	
4401ST - Sage Rd. Reconstruction to Collector Standard	-	-	-	-	-	-	-	-	-	(438,000)	-	(438,000)	
6720PD - North Bay Police Services 2023 On-going	-	(174,228)	-	-	-	-	-	-	-	-	-	(174,228)	
8023FL - Vehicle and Equipment Life Cycle 2023	-	(500,000)	(500,000)	(500,000)	(500,000)	(500,000)	(500,000)	(500,000)	(500,000)	(500,000)	(500,000)	(5,000,000)	
Ontario Community Infrastructure Fund (OCIF)		(4,928,744)	(4,419,682)	(4,000,000)	(4,000,000)	(4,000,000)	(4,000,000)	(4,000,000)	(4,000,000)	(4,000,000)	(4,000,000)	(41,348,426)	
<b>Total Grants and Other Funding Sources</b>		<b>(10,488,092)</b>	<b>(25,568,242)</b>	<b>(16,821,114)</b>	<b>(15,913,946)</b>	<b>(8,066,667)</b>	<b>(22,288,193)</b>	<b>(8,510,667)</b>	<b>(5,582,858)</b>	<b>(5,943,810)</b>	<b>(5,221,905)</b>	<b>(8,333,333)</b>	<b>(132,738,827)</b>
<b>Net General Capital Budget</b>		<b>21,366,313</b>	<b>23,493,161</b>	<b>39,522,340</b>	<b>29,468,455</b>	<b>28,813,687</b>	<b>30,660,034</b>	<b>31,239,369</b>	<b>32,195,018</b>	<b>32,985,443</b>	<b>34,444,802</b>	<b>33,580,267</b>	<b>337,768,889</b>
<b>Capital Funding Policy Limit</b>													
Capital Levy in Operating Budget		(16,121,349)	(16,637,654)	(17,072,734)	(18,047,652)	(18,784,265)	(19,566,865)	(20,168,473)	(21,064,418)	(22,044,043)	(22,959,914)	(192,467,367)	
Debt and Long-term Debt		(500,000)	(7,500,000)	(8,100,000)	(8,100,000)	(8,100,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(74,800,000)	
Special Debt for Community Centre		-	(8,131,752)	-	-	-	-	-	-	-	-	(8,131,752)	
Canadian Community Building Fund for Community Centre		(3,460,396)	(3,460,396)	-	-	-	-	-	-	-	-	(6,920,792)	
Canadian Community Building Fund		(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(3,412,198)	(34,121,980)	
<b>Target Policy for Net Expenditures</b>		<b>(23,493,943)</b>	<b>(39,142,000)</b>	<b>(28,584,932)</b>	<b>(29,559,850)</b>	<b>(30,296,463)</b>	<b>(31,479,063)</b>	<b>(32,080,671)</b>	<b>(32,976,616)</b>	<b>(33,956,241)</b>	<b>(34,872,112)</b>	<b>(316,441,891)</b>	
<b>(\$ Available) \$ Funding Needed</b>		<b>(782)</b>	<b>380,340</b>	<b>883,523</b>	<b>(746,163)</b>	<b>363,571</b>	<b>(239,694)</b>	<b>114,347</b>	<b>8,827</b>	<b>488,561</b>	<b>(1,291,845)</b>	<b>(39,315)</b>	

**2023 WATER AND WASTEWATER  
CAPITAL BUDGET SUMMARY AND  
CAPITAL FORECAST FOR 2024 TO 2032**

**2023 Water and Wastewater Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

	Project Classification	LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
<b>Wastewater</b>													
3700SS - Seymour St. - Station to Wallace - Widening and Signals	G	-	58,800	-	1,078,000	-	-	-	-	-	-	-	1,136,800
3719SS - Digester Replacement	AIM	5,150,000	490,000	-	-	-	-	-	-	-	-	-	5,640,000
3802SS - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	AIM	-	-	-	-	-	-	156,800	-	2,940,000	-	-	3,096,800
3810SS - Main St. - Gormanville to Memorial	G	-	-	-	-	-	-	215,600	-	4,018,000	-	-	4,233,600
3825SS - Wastewater Treatment Plant - Intake Chamber Replacement	AIM	566,000	5,120,500	2,450,000	-	-	-	-	-	-	-	-	8,136,500
3826SS - Pumping Station Replacement	AIM	-	-	-	-	-	1,470,000	4,900,000	-	4,900,000	2,450,000	-	13,720,000
3900SS - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	-	-	19,600	1,470,000	-	-	-	-	-	-	1,489,600
3909SS - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	49,000	-	-	-	-	-	-	882,000	931,000
3919SS - Metcalfe St - Laurier to End	AIM	30,000	-	-	-	392,000	-	-	-	-	-	-	422,000
3920SS - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	20,000	-	-	-	392,000	-	-	-	-	-	-	412,000
3932SS - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	40,000	-	808,500	808,500	-	-	-	-	-	-	-	1,657,000
4030SS - Sanitary Sewer Relining	AIM	-	98,000	882,000	196,000	196,000	-	-	122,500	-	-	-	1,494,500
4032SS - O'Brien St. Reconstruction - Cassells to Ski Club	AIM	-	-	-	-	156,800	-	-	735,000	-	-	735,000	1,626,800
4037SS - Sage Area Trunk Sewer Improvements	AIM	-	-	490,000	-	2,940,000	-	-	-	-	-	-	3,430,000
4103SS - Wastewater Treatment Plant Expansion	R	AIM	984,000	539,000	735,000	2,940,000	2,940,000	-	245,000	9,163,000	-	-	17,546,000
4115SS - Innovation Hub	G	10,000	-	98,000	-	-	-	-	-	-	-	-	108,000
4118SS - King's Landing Pumping Station Replacement	AIM	75,000	-	1,470,000	-	-	-	-	-	-	-	-	1,545,000
4124SS - Francis St. Sewer Upsizing (Surrey to Greenhill)	G	-	-	-	-	78,400	-	-	1,470,000	-	-	-	1,548,400
4125SS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R	AIM	-	-	-	313,600	-	1,470,000	1,470,000	-	-	-	3,253,600



**2023 Water and Wastewater Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

	Project Classification	LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
<b>Wastewater</b>													
4204SS - Wastewater Treatment Plant - Roof Rehab	AIM	-	392,000	392,000	-	392,000	-	392,000	-	-	392,000	-	<b>1,960,000</b>
4300SS - Airport Industrial Park Expansion	F G	-	147,000	-	-	-	-	2,842,000	-	-	-	-	<b>2,989,000</b>
4310SS - Pearce St. Extension to Tower Dr.	F G	-	53,900	-	980,000	-	-	-	-	-	-	-	<b>1,033,900</b>
4313SS - Pumping Station Condition Assessments	AIM	-	-	245,000	-	-	-	-	-	-	-	-	<b>245,000</b>
4314SS - Septage Receiving Station Upgrades	AIM	-	196,000	-	-	-	-	-	-	-	-	-	<b>196,000</b>
4317SS - Sanitary Sewer Condition Assessment	AIM	-	-	490,000	-	-	-	-	-	-	-	-	<b>490,000</b>
4319SS - Jane St. Reconstruction (Timmins to Algonquin)	AIM	-	-	-	-	-	78,400	-	-	1,372,000	-	-	<b>1,450,400</b>
4320SS - Wastewater Treatment Plant Condition Assessment Update	AIM	-	147,000	-	-	-	-	-	-	-	-	-	<b>147,000</b>
4321SS - Wastewater Treatment Plant Heat Exchanger and Sludge Transfer Piping	AIM	-	-	-	-	-	-	-	-	-	-	4,900,000	<b>4,900,000</b>
4322SS - Wastewater Treatment Plant Blower Replacement	AIM	-	-	-	-	-	-	-	-	-	-	3,920,000	<b>3,920,000</b>
4324SS - Algonquin Sanitary Sewer Rehab	AIM	-	-	-	-	-	-	-	-	-	-	1,470,000	<b>1,470,000</b>
4325SS - Fisher Sanitary Sewer Rehab	AIM	-	-	-	-	-	-	-	-	-	-	2,450,000	<b>2,450,000</b>
4335GG - Administration and Overhead	SI	-	139,455	142,942	146,515	150,178	153,933	157,781	161,725	165,769	169,913	174,161	<b>1,562,372</b>
4336SS - Asset Management Transition	SI	-	54,000	50,000	11,000	50,000	-	99,000	118,000	118,000	13,000	218,000	<b>731,000</b>
4337SS - Wastewater Treatment Plant - Structural Repair	R AIM	1,535,839	1,756,000	490,000	-	-	-	686,000	882,000	-	1,372,000	-	<b>6,721,839</b>
4401SS - Sage Rd. Reconstruction to Collector Standard	G	-	-	-	-	-	-	19,600	-	-	882,000	-	<b>901,600</b>
4402SS - Chippewa Trunk Sewer Major Rehabilitation & Replacement	AIM	-	-	196,000	980,000	-	2,450,000	-	-	-	-	-	<b>3,626,000</b>
4500SS - Franklin & John Trunk Watermain	SI	-	-	-	-	107,800	-	980,000	-	-	-	1,078,000	<b>2,165,800</b>
6722SS - Sewage Lift Stations 2023 On-going	AIM	-	78,400	78,400	78,400	78,400	78,400	78,400	78,400	78,400	78,400	78,400	<b>784,000</b>
6728SS - Design Work Next Year's Projects 2023 On-going	AIM	-	33,320	34,300	35,280	36,260	37,240	38,220	39,200	39,200	39,200	39,200	<b>371,420</b>
6734SS - Wastewater Treatment Plant Rehab 2023 On-going	AIM	-	196,000	-	196,000	-	196,000	-	196,000	-	196,000	-	<b>980,000</b>

**2023 Water and Wastewater Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

	Project Classification	LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
<b>Wastewater</b>													
6743SS - Wastewater Treatment Plant - Electrical Upgrades 2023 On-going	AIM	-	245,000	245,000	245,000	245,000	245,000	252,840	254,800	254,800	254,800	254,800	<b>2,497,040</b>
6745SS - Wastewater Treatment Plant Exterior Rehab 2023 On-going	AIM	-	294,000	-	294,000	-	441,000	-	294,000	-	2,940,000	2,940,000	<b>7,203,000</b>
6748SS - Sewer Rehab and Restoration 2023 On-going	AIM	-	245,000	245,000	245,000	245,000	245,000	252,840	254,800	254,800	254,800	254,800	<b>2,497,040</b>
6750SS - Infrastructure Modelling 2023 On-going	AIM	-	-	-	9,800	-	-	-	9,800	-	-	-	<b>19,600</b>
6753SS - Digester and Grit Removal 2023 On-going	AIM	-	106,820	-	-	106,820	-	-	106,820	-	-	147,000	<b>467,460</b>
6754SS - Engineering Data and Equipment 2023 On-going	SI	-	4,900	4,900	19,600	4,900	4,900	4,900	19,600	19,600	19,600	19,600	<b>122,500</b>
<b>Total Wastewater</b>		<b>8,410,839</b>	<b>10,395,095</b>	<b>9,547,042</b>	<b>8,645,295</b>	<b>9,981,558</b>	<b>6,869,873</b>	<b>12,790,981</b>	<b>13,905,645</b>	<b>14,160,569</b>	<b>9,061,713</b>	<b>19,560,961</b>	<b>123,329,571</b>
<b>Water</b>													
3700WS - Seymour St. - Station to Wallace - Widening and Signals	G	-	196,000	-	3,724,000	-	-	-	-	-	-	-	<b>3,920,000</b>
3701WS - Norman/Chapais Connection Watermain	SI	-	-	-	-	58,800	-	-	-	-	784,000	-	<b>842,800</b>
3802WS - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	AIM	-	-	-	-	-	-	156,800	-	2,940,000	-	-	<b>3,096,800</b>
3810WS - Main St. - Gormanville to Memorial	G	-	-	-	-	-	-	58,800	-	1,176,000	-	-	<b>1,234,800</b>
3828WS - West Ferris Trunk Watermain Relining	AIM	975,060	-	2,200,300	-	-	-	-	-	-	-	-	<b>3,175,360</b>
3900WS - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	-	-	98,000	1,764,000	-	-	-	-	-	-	<b>1,862,000</b>
3905WS - Cedar Heights Rd. - Larocque BPS	G	-	-	-	49,000	-	3,920,000	-	-	-	-	-	<b>3,969,000</b>
3909WS - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	49,000	-	-	-	-	-	-	980,000	<b>1,029,000</b>
3919WS - Metcalfe St - Laurier to End	AIM	30,000	-	-	-	392,000	-	-	-	-	-	-	<b>422,000</b>
3920WS - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	20,000	-	-	-	392,000	-	-	-	-	-	-	<b>412,000</b>
3932WS - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	30,000	-	710,500	710,500	-	-	-	-	-	-	-	<b>1,451,000</b>
4003WS - Membrane Module Replacement	R	AIM	-	-	1,342,600	-	1,832,600	-	-	-	-	-	<b>3,175,200</b>
4031WS - Public Works Building Rehab	AIM	-	-	98,000	-	196,000	-	-	980,000	-	-	-	<b>1,274,000</b>

**2023 Water and Wastewater Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

	Project Classification	LTD Approved Budget	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	Total
<b>Water</b>													
4032WS - O'Brien St. Reconstruction - Cassells to Ski Club	AIM	-	-	-	-	156,800	-	-	784,000	-	-	784,000	1,724,800
4102WS - Ellendale Pumping Station Second Feed to Airport	SI	-	-	-	196,000	-	1,470,000	980,000	-	-	-	-	2,646,000
4115WS - Innovation Hub	G	20,000	-	392,000	-	-	-	-	-	-	-	-	412,000
4124WS - Francis St. Sewer Upsizing (Surrey to Greenhill)	G	-	-	-	-	78,400	-	-	1,372,000	-	-	-	1,450,400
4125WS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R AIM	-	-	-	313,600	-	1,470,000	1,470,000	-	-	-	-	3,253,600
4212WS - Water Treatment Plant Major Equipment Replacement	AIM	-	-	-	-	-	-	-	294,000	-	4,410,000	-	4,704,000
4213WS - Airport Standpipe Major Equipment Replacement	AIM	-	-	-	-	-	-	-	294,000	-	980,000	-	1,274,000
4214WS - Ellendale Structural Repairs	AIM	-	-	-	-	-	-	-	294,000	-	4,410,000	-	4,704,000
4300WS - Airport Industrial Park Expansion	F G	-	254,800	-	-	-	-	4,704,000	-	-	-	-	4,958,800
4310WS - Pearce St. Extension to Tower Dr.	F G	-	39,200	-	784,000	-	-	-	-	-	-	-	823,200
4315WS - Unidirectional Flushing Update	AIM	-	122,500	-	-	-	-	-	-	-	-	-	122,500
4318WS - Watermain Condition Inspections	AIM	-	-	-	490,000	-	-	-	-	-	-	-	490,000
4319WS - Jane St. Reconstruction (Timmins to Algonquin)	AIM	-	-	-	-	-	78,400	-	-	1,470,000	-	-	1,548,400
4323WS - Water Plant & Facilities Condition Assessment Update	AIM	-	-	98,000	98,000	-	-	-	-	-	-	-	196,000
4326WS - Ellendale Check Valve Replacement	AIM	-	-	-	686,000	-	-	-	-	-	-	-	686,000
4335GG - Administration and Overhead	SI	-	106,642	109,308	112,041	114,842	117,713	120,656	123,672	126,764	129,933	133,182	1,194,753
4336WS - Asset Management Transition	SI	-	-	22,000	104,000	7,000	113,000	112,000	12,000	41,000	158,000	-	569,000
4401WS - Sage Rd. Reconstruction to Collector Standard	G	-	-	-	-	-	-	58,800	-	-	882,000	-	940,800
4500WS - Franklin & John Trunk Watermain	SI	-	-	-	-	147,000	-	1,372,000	-	-	-	1,372,000	2,891,000
6692WS - City Share of Development Costs 2023 On-going	R G	-	295,960	304,780	313,600	323,400	333,200	343,000	352,800	352,800	352,800	352,800	3,325,140

**2023 Water and Wastewater Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

	<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>Total</b>
<b>Water</b>													
6695WS - Watermain Rehab and Restoration 2023 On-going	AIM	-	801,640	801,640	801,640	801,640	801,640	826,140	828,100	828,100	828,100	828,100	<b>8,146,740</b>
6726WS - Water Plant Maintenance 2023 On-going	AIM	-	294,000	294,000	294,000	294,000	294,000	302,820	303,800	303,800	303,800	303,800	<b>2,988,020</b>
6727WS - Watermain Replace/Ream/Reline 2023 On-going	AIM	-	216,580	216,580	216,580	216,580	216,580	223,440	225,400	225,400	225,400	225,400	<b>2,207,940</b>
6728WS - Design Work Next Year's Projects 2023 On-going	AIM	-	119,560	122,500	125,440	129,360	133,280	137,200	137,200	137,200	137,200	137,200	<b>1,316,140</b>
6731WS - Flush Watermains 2023 On-going	AIM	-	196,000	196,000	196,000	196,000	196,000	201,880	205,800	205,800	205,800	205,800	<b>2,005,080</b>
6732WS - Asset Management 2023 On-going	AIM	-	73,500	73,500	73,500	73,500	73,500	73,500	73,500	73,500	73,500	73,500	<b>735,000</b>
6736WS - System Technology Program 2023 On-going	AIM	-	128,451	128,451	128,451	128,451	128,451	132,314	132,314	132,314	132,314	132,314	<b>1,303,825</b>
6746WS - Public Works Building Maintenance 2023 On-going	AIM	-	24,500	24,500	24,500	24,500	24,500	25,480	25,480	25,480	25,480	25,480	<b>249,900</b>
6747WS - Equipment Replacement 2023 On-going	AIM	-	14,700	14,700	14,700	14,700	14,700	14,700	14,700	14,700	14,700	14,700	<b>147,000</b>
6750WS - Infrastructure Modelling 2023 On-going	AIM	-	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	4,900	<b>49,000</b>
6757WS - Water Reservoir Upgrades 2023 On-going	AIM	-	287,140	287,140	287,140	287,140	287,140	294,000	294,000	294,000	294,000	294,000	<b>2,905,700</b>
6760WS - Water Meter & Radio Upgrade 2023 On-going	AIM	-	245,000	245,000	245,000	245,000	-	-	-	-	-	490,000	<b>1,470,000</b>
<b>Total Water</b>		<b>1,075,060</b>	<b>3,421,073</b>	<b>6,343,799</b>	<b>11,482,192</b>	<b>6,046,013</b>	<b>11,509,604</b>	<b>11,612,430</b>	<b>6,751,666</b>	<b>8,351,758</b>	<b>14,351,927</b>	<b>6,357,176</b>	<b>87,302,698</b>
<b>Total Water and Wastewater Reserve Funding (R)</b>		<b>9,485,898</b>	<b>13,816,168</b>	<b>15,890,841</b>	<b>20,127,487</b>	<b>16,027,571</b>	<b>18,379,477</b>	<b>24,403,411</b>	<b>20,657,311</b>	<b>22,512,327</b>	<b>23,413,640</b>	<b>25,918,137</b>	<b>210,632,268</b>
4337SS - Wastewater Treatment Plant - Structural Repair		-	-	(116,000)	-	-	-	-	-	-	-	-	<b>(116,000)</b>
4003WS - Membrane Module Replacement		-	-	-	-	-	(597,000)	-	-	-	-	-	<b>(597,000)</b>
4103SS - Wastewater Treatment Plant Expansion		(133,000)	(160,000)	(170,000)	-	-	-	-	-	-	-	-	<b>(463,000)</b>
4125SS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude		-	-	-	(255,000)	-	-	-	-	-	-	-	<b>(255,000)</b>
4125WS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude		-	-	-	(110,000)	-	-	-	-	-	-	-	<b>(110,000)</b>
6692WS - City Share of Development Costs 2023 On-going		-	-	(304,780)	(313,600)	(125,865)	-	-	-	-	-	-	<b>(744,245)</b>
<b>Total Reserve Funding</b>		<b>(133,000)</b>	<b>(160,000)</b>	<b>(590,780)</b>	<b>(678,600)</b>	<b>(125,865)</b>	<b>(597,000)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(2,285,245)</b>

**2023 Water and Wastewater Capital Budget and Capital Forecast for 2024 to 2032 by Business Unit**

<b>Project Classification</b>	<b>LTD Approved Budget</b>	<b>2023</b>	<b>2024</b>	<b>2025</b>	<b>2026</b>	<b>2027</b>	<b>2028</b>	<b>2029</b>	<b>2030</b>	<b>2031</b>	<b>2032</b>	<b>Total</b>
<b>Grants and Other Funding Sources (F)</b>												
4300SS - Airport Industrial Park Expansion	-	-	-	-	-	-	(1,913,706)	-	-	-	-	(1,913,706)
4300WS - Airport Industrial Park Expansion	-	-	-	-	-	-	(3,167,512)	-	-	-	-	(3,167,512)
4310SS - Pearce St. Extension to Tower Dr.	-	-	-	(600,000)	-	-	-	-	-	-	-	(600,000)
4310WS - Pearce St. Extension to Tower Dr.	-	-	-	(700,000)	-	-	-	-	-	-	-	(700,000)
Ontario Community Infrastructure Fund (OCIF)	-	-	(1,000,000)	(500,000)	(500,000)	(500,000)	(500,000)	(500,000)	(500,000)	(500,000)	(500,000)	(5,000,000)
<b>Total Grants and Other Funding Sources</b>	<b>-</b>	<b>-</b>	<b>(1,000,000)</b>	<b>(1,800,000)</b>	<b>(500,000)</b>	<b>(500,000)</b>	<b>(5,581,218)</b>	<b>(500,000)</b>	<b>(500,000)</b>	<b>(500,000)</b>	<b>(500,000)</b>	<b>(11,381,218)</b>
<b>Net Water and Wastewater Capital Budget</b>	<b>9,352,898</b>	<b>13,656,168</b>	<b>14,300,061</b>	<b>17,648,887</b>	<b>15,401,706</b>	<b>17,282,477</b>	<b>18,822,193</b>	<b>20,157,311</b>	<b>22,012,327</b>	<b>22,913,640</b>	<b>25,418,137</b>	<b>196,965,805</b>
<b>Capital Funding Policy Limit</b>												
Capital Levy In Water and Wastewater Budget		(10,650,363)	(11,320,076)	(12,498,311)	(13,886,402)	(15,230,895)	(16,530,057)	(17,466,424)	(18,634,361)	(19,516,783)	(20,765,972)	(156,499,644)
Debenture and Long-term Debt		(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(3,000,000)	(30,000,000)
<b>Target Policy for Net Expenditures</b>		<b>(13,650,363)</b>	<b>(14,320,076)</b>	<b>(15,498,311)</b>	<b>(16,886,402)</b>	<b>(18,230,895)</b>	<b>(19,530,057)</b>	<b>(20,466,424)</b>	<b>(21,634,361)</b>	<b>(22,516,783)</b>	<b>(23,765,972)</b>	<b>(186,499,644)</b>
<b>(\$ Available) \$ Funding Needed</b>		<b>5,805</b>	<b>(20,015)</b>	<b>2,150,576</b>	<b>(1,484,696)</b>	<b>(948,418)</b>	<b>(707,864)</b>	<b>(309,113)</b>	<b>377,966</b>	<b>396,857</b>	<b>1,652,165</b>	<b>1,113,263</b>

**CAPITAL PROJECT INFORMATION SHEETS  
BY PROJECT NUMBER**

<b>Number:</b>	3302ST	<b>Scenario:</b>	Main
<b>Title:</b>	Trunk Sewer Rehab - Pinewood Fingers Creek	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project provides for engineering and construction services for major culvert improvements at various locations along the Pinewood Fingers Creek. Culvert upgrades anticipated includes the CP Rail Crossing, removal of the historical CN Rail Crossing, upsizing the culvert from Jane Street to Copeland Street, channelization downstream of Tackaberry Drive, upsizing the culvert crossing Tackaberry Drive, and upsizing the culvert crossing the Ministry of Transportation Highway 17 corridor.</p> <p>Engineering services will include condition inspection, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>		<p>The Pinewood Fingers Creek has various culvert constraints that constrict the creek flow and add to flooding hazards. Flood flows at the culverts represent a significant risk to wash out type collapse of the culverts and roads.</p> <p>Flood flows through the yards between Jane Street and Copeland Street and backwater flooding to McNamara Street are the primary residential property flooding concerns. These hazards are expected with larger storms which occur infrequently (every 25 to 100 years) and as such are not considered an on-going nuisance hazard but rather a larger scale community protection concern which will need to be addressed.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2026	196,000	196,000	0
	<b>196,000</b>	<b>196,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 196,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2011	Jan 1, 2026	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2027

<b>Number:</b>	3405PK	<b>Scenario:</b>	Main
<b>Title:</b>	Parking Property Acquisition Program	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	PARKING
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project is to provide funds for the purchase of lands for future parking uses.	<p>Downtown development potential is limited if steps are not taken to provide additional parking space. The 2012 Parking Study identifies preferred properties to be acquired. The funding budgeted in 2024, 2027 and 2031 is for the purchase of lands identified. The construction cost of parking lots or facilities on these lands, if acquired, will be requested in future capital budgets or has been budgeted in Capital Project 4201PK, depending on properties purchased.</p> <p>Project is funded by the Property Development Reserve (99535R) which was established to fund the purchase of property and the development of the City.</p> <p>Related project 4201PK.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																								
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2024</td> <td>300,000</td> <td>300,000</td> <td>0</td> </tr> <tr> <td>2027</td> <td>300,000</td> <td>300,000</td> <td>0</td> </tr> <tr> <td>2031</td> <td>294,000</td> <td>294,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>894,000</b></td> <td><b>894,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 300,000</td> <td colspan="2"><b>Total Project Cost:</b> 1,194,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	300,000	300,000	0	2027	300,000	300,000	0	2031	294,000	294,000	0		<b>894,000</b>	<b>894,000</b>	<b>0</b>	<b>LTD Amount:</b> 300,000		<b>Total Project Cost:</b> 1,194,000		
Budget Year	Total Expense	Total Revenue	Difference																						
2024	300,000	300,000	0																						
2027	300,000	300,000	0																						
2031	294,000	294,000	0																						
	<b>894,000</b>	<b>894,000</b>	<b>0</b>																						
<b>LTD Amount:</b> 300,000		<b>Total Project Cost:</b> 1,194,000																							

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2021	N/A	David Jackowski	Dec 31, 2031



<b>Number:</b>	3506ST	<b>Scenario:</b>	Main
<b>Title:</b>	Stormwater Management - Overland Flow Control Study	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering services for the analysis of the City's stormwater infrastructure and major storm water flow routes (i.e., when the sewers are full during larger rain events) leading to the identification of overland flow route needs.</p> <p>Engineering services will include mapping of drainage areas, analysis of the major and minor (storm sewer) systems and identification of the needs to mitigate major flow system deficiencies.</p>	<p>The City's storm sewer systems (the minor system) are only designed to capture runoff from certain sized storms (one that statistically occurs once every five years).</p> <p>During intense rain events, the system's capacity can be exceeded and once the sewer systems are full of water any additional runoff must flow overland (the major system). If the overland flow routes are designed properly, localized flooding can be mitigated.</p> <p>Unfortunately, several older systems did not include accommodations for a major system - examples include the low area at Ferguson Street and King Street that experienced a number of floods in recent years, as well as the low spot on Surrey Drive between Airport Road and Francis Avenue, which has experienced some minor flooding, but with a large enough storm, the only outlet was between two residential houses.</p> <p>Projects have been undertaken recently to correct the major system deficiencies on Ferguson Street and Surrey Drive. A City-wide study will help to identify other under-designed areas and to prioritize areas with the greatest risk potential for flooding and damage.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2025</td> <td>98,000</td> <td>98,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>98,000</b></td> <td><b>98,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 98,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2025	98,000	98,000	0		<b>98,000</b>	<b>98,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 98,000</b>		
Budget Year	Total Expense	Total Revenue	Difference														
2025	98,000	98,000	0														
	<b>98,000</b>	<b>98,000</b>	<b>0</b>														
<b>LTD Amount: 0</b>		<b>Total Project Cost: 98,000</b>															

<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2011	Jan 1, 2025	N/A	Adam Lacombe	Dec 31, 2025

<b>Number:</b>	3508PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks and Playgrounds - New Neighbourhood Parks	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the development of new parks within the City. The development of the new parks is supported by the recommendations in the City's Parks Master Plan and Official Plan.	<p>Council has approved an updated Parks Master Plan on November 16, 2021 as per Community Services Committee Report 2021-16.</p> <p>Based on the approved 2021 Parks Master Plan and the City's Official Plan, areas for the development of new neighbourhood parks will be assessed to determine priorities.</p> <p>This project has been identified to be funded partially from the Parklands Reserve Fund (99501R) established by the Planning Act to fund the acquisition of lands to be used for park or other public recreational purposes, including the erecting or repairing of buildings or other structures.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																								
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Budget Year	Total Expense	Total Revenue	Difference																						
2025	200,000	200,000	0																						
2028	196,000	196,000	0																						
2031	196,000	196,000	0																						
	<b>592,000</b>	<b>592,000</b>	<b>0</b>																						
<b>LTD Amount: 0</b>		<b>Total Project Cost: 592,000</b>																							

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	TBD	Dave Schroeder	Dec 31, 2031

<b>Number:</b>	3509PZ	<b>Scenario:</b>	Main
<b>Title:</b>	Official Plan 5 Year Review and Study Update	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Master Plans
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PLANNING & ZONING
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for the completion of various studies including the Population, Household and Employment Forecast and Parks Master Plan leading to the 5-year review of the City's Official Plan.	<p>The City's Official Plan requires a review every 5 years. In order to complete the review, a number of background studies have been completed. This project will enable the update to the City's Parks Master Plan (2021) and the Population, Household and Employment Forecast (2019). These studies are in addition to the Parks and Active Transportation Plan Update (2019).</p> <p>The Official Plan review has been on pause over the past few years as a result of COVID (Province requested) and the number of Planning Act changes over the past 2 years.</p> <p>It is anticipated that the updated Official Plan will be brought forward to Council for review and, subsequently, submitted to the Province for approval in 2023/2024.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2028</td> <td>245,169</td> <td>245,169</td> <td>0</td> </tr> <tr> <td></td> <td><b>245,169</b></td> <td><b>245,169</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 335,906</td> <td colspan="2"><b>Total Project Cost:</b> 581,075</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2028	245,169	245,169	0		<b>245,169</b>	<b>245,169</b>	<b>0</b>	<b>LTD Amount:</b> 335,906		<b>Total Project Cost:</b> 581,075		
Budget Year	Total Expense	Total Revenue	Difference														
2028	245,169	245,169	0														
	<b>245,169</b>	<b>245,169</b>	<b>0</b>														
<b>LTD Amount:</b> 335,906		<b>Total Project Cost:</b> 581,075															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2017	TBD	Beverley Hillier	Dec 31, 2028

<b>Number:</b>	3518PR	<b>Scenario:</b>	Main
<b>Title:</b>	King's Landing Commercialization of Waterfront	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
The program provides for the development of infrastructure at the Waterfront to support commercial investment.	<p>In July 2019, Council approved the Preferred Alternative for the phased replacement of the King's Landing Wharf with a naturalized spit and expansion of the pier on the south side of the marina as recommended by the Schedule C, Class Environmental Assessment (EA) as shown on Appendix 'A' attached to Report to Council EESW 2019-13. Council also directed Staff to complete the Schedule C, Class EA Report and table it for the 30 day review period.</p> <p>The preferred alternative includes 4 phases:  Phase 1: Major Rehabilitation of Existing King's Landing  Phase 2: Construct New South Pier / Commercial Area  Phase 3: Construct Rock Fill Wavebreak  Phase 4: Landscape / Naturalize Wavebreak</p> <p>In June 2020 MECP notified the City that they had no further input or objections to the Project. Therefore, the Schedule C, Class EA is complete.</p> <p>Final design and issuance of a tender for construction of the preferred alternative will be initiated depending on the availability of the necessary funding and direction of Council.</p> <p>In the meantime, continued maintenance of King's Landing has been budgeted.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2023																												
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2024</td> <td>980,000</td> <td>980,000</td> <td>0</td> </tr> <tr> <td>2025</td> <td>4,998,000</td> <td>4,998,000</td> <td>0</td> </tr> <tr> <td>2026</td> <td>4,998,000</td> <td>4,998,000</td> <td>0</td> </tr> <tr> <td>2027</td> <td>4,998,000</td> <td>4,998,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>15,974,000</b></td> <td><b>15,974,000</b></td> <td><b>0</b></td> </tr> <tr> <td><b>LTD Amount:</b> 756,180</td> <td colspan="3"><b>Total Project Cost:</b> 16,730,180</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	980,000	980,000	0	2025	4,998,000	4,998,000	0	2026	4,998,000	4,998,000	0	2027	4,998,000	4,998,000	0		<b>15,974,000</b>	<b>15,974,000</b>	<b>0</b>	<b>LTD Amount:</b> 756,180	<b>Total Project Cost:</b> 16,730,180			
Budget Year	Total Expense	Total Revenue	Difference																										
2024	980,000	980,000	0																										
2025	4,998,000	4,998,000	0																										
2026	4,998,000	4,998,000	0																										
2027	4,998,000	4,998,000	0																										
	<b>15,974,000</b>	<b>15,974,000</b>	<b>0</b>																										
<b>LTD Amount:</b> 756,180	<b>Total Project Cost:</b> 16,730,180																												

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2015	TBD	Gerry McCrank	Dec 31, 2027

<b>Number:</b>	3700RD	<b>Scenario:</b>	Main
<b>Title:</b>	Seymour St. - Station to Wallace - Widening and Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for the widening and reconstruction of Seymour Street from just east of Station Road to Wallace Road, as well as a new trunk watermain from Wallace Road to Station Road and along Cholette Street from Station Road to Highway 11/17.</p> <p>The road improvements include widening the roadway to three lanes with a center auxiliary left turn lane, a new set of traffic signals at the Commerce Crescent and Venture Crescent intersection and the extension of a sidewalk along the north side of the roadway. Underground works include the installation of new storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>A contract for engineering services was awarded to an engineering consultant in 2009 which included Environmental Assessment (EA) and preliminary design. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk.</p> <p>As an existing arterial road servicing industrial areas, it is critical that an adequate level of service be maintained. Seymour Street has a deteriorating road surface that will require reconstruction within 5 to 10 years. The widening and traffic signals will address current traffic congestion and safety concerns.</p> <p>An additional contract for engineering services is required for detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>Work in 2023 will be for the detailed design. The works will be constructed in one phase subsequent to the completion of the construction and improvement at the intersection of Highway 11/17 and Seymour. Construction will commence in 2025.</p> <p>Budget includes funding through the Northern Ontario Resources Development Support (NORDS) Fund.</p> <p>Related projects include 3700SS/ST/WS and 4500RD/SS/ST/WS.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2023		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2023	176,400	176,400	0			
2025	3,332,000	3,332,000	0	3117	DESIGN FEES	176,400
	<b>3,508,400</b>	<b>3,508,400</b>	<b>0</b>			<b>Total Expense: 176,400</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 3,508,400				
						<b>Total Revenue: 176,400</b>

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2023	25 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	3700SS	<b>Scenario:</b>	Main
<b>Title:</b>	Seymour St. - Station to Wallace - Widening and Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for the widening and reconstruction of Seymour Street from just east of Station Road to Wallace Road, as well as a new trunk watermain from Wallace Road to Station Road and along Cholette Street from Station Road to Highway 11/17.</p> <p>The road improvements include widening the roadway to three lanes with a center auxiliary left turn lane, a new set of traffic signals at the Commerce Crescent and Venture Crescent intersection and the extension of a sidewalk along the north side of the roadway. Underground works include the installation of new storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>A contract for engineering services was awarded to an engineering consultant in 2009 which included Environmental Assessment (EA) and preliminary design. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk.</p> <p>As an existing arterial road servicing industrial areas, it is critical that an adequate level of service be maintained. Seymour Street has a deteriorating road surface that will require reconstruction within 5 to 10 years. The widening and traffic signals will address current traffic congestion and safety concerns.</p> <p>An additional contract for engineering services is required for detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>Work in 2023 will be for the detailed design. The works will be constructed in one phase subsequent to the completion of the construction and improvement at the intersection of Highway 11/17 and Seymour. Construction will commence in 2025.</p> <p>Related projects include 3700RD/ST/WS and 4500RD/SS/ST/WS.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2023		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2023	58,800	58,800	0			
2025	1,078,000	1,078,000	0	3117	DESIGN FEES	58,800
	<b>1,136,800</b>	<b>1,136,800</b>	<b>0</b>		<b>Total Expense:</b>	<b>58,800</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,136,800				
				0461	TSF FRM REV FUND-PAYGO	58,800
					<b>Total Revenue:</b>	<b>58,800</b>

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2023	75 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	3700ST	<b>Scenario:</b>	Main
<b>Title:</b>	Seymour St. - Station to Wallace - Widening and Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for the widening and reconstruction of Seymour Street from just east of Station Road to Wallace Road, as well as a new trunk watermain from Wallace Road to Station Road and along Cholette Street from Station Road to Highway 11/17.</p> <p>The road improvements include widening the roadway to three lanes with a center auxiliary left turn lane, a new set of traffic signals at the Commerce Crescent and Venture Crescent intersection and the extension of a sidewalk along the north side of the roadway. Underground works include the installation of new storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>A contract for engineering services was awarded to an engineering consultant in 2009 which included Environmental Assessment (EA) and preliminary design. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk.</p> <p>As an existing arterial road servicing industrial areas, it is critical that an adequate level of service be maintained. Seymour Street has a deteriorating road surface that will require reconstruction within 5 to 10 years. The widening and traffic signals will address current traffic congestion and safety concerns.</p> <p>An additional contract for engineering services is required for detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>Work in 2023 will be for the detailed design. The works will be constructed in one phase subsequent to the completion of the construction and improvement at the intersection of Highway 11/17 and Seymour. Construction will commence in 2025.</p> <p>Budget includes funding through the Northern Ontario Resources Development Support (NORDS) Fund.</p> <p>Related projects include 3700RD/SS/WS and 4500RD/SS/ST/WS.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2023		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2023	68,600	68,600	0			
2025	1,274,000	1,274,000	0	3117	DESIGN FEES	68,600
	<b>1,342,600</b>	<b>1,342,600</b>	<b>0</b>			<b>Total Expense: 68,600</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,342,600				
						<b>Total Revenue: 68,600</b>

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2023	75 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	3700WS	<b>Scenario:</b>	Main
<b>Title:</b>	Seymour St. - Station to Wallace - Widening and Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for the widening and reconstruction of Seymour Street from just east of Station Road to Wallace Road, as well as a new trunk watermain from Wallace Road to Station Road and along Cholette Street from Station Road to Highway 11/17.</p> <p>The road improvements include widening the roadway to three lanes with a center auxiliary left turn lane, a new set of traffic signals at the Commerce Crescent and Venture Crescent intersection and the extension of a sidewalk along the north side of the roadway. Underground works include the installation of new storm sewers and repair/rehabilitation/replacement of sanitary sewers and watermains.</p>	<p>A contract for engineering services was awarded to an engineering consultant in 2009 which included Environmental Assessment (EA) and preliminary design. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk.</p> <p>As an existing arterial road servicing industrial areas, it is critical that an adequate level of service be maintained. Seymour Street has a deteriorating road surface that will require reconstruction within 5 to 10 years. The widening and traffic signals will address current traffic congestion and safety concerns.</p> <p>Work in 2023 will be for the detailed design. The works will be constructed in one phase subsequent to the completion of the construction and improvement at the intersection of Highway 11/17 and Seymour. Construction will commence in 2025.</p> <p>The work will be constructed in one phase subsequent to the completion of the construction and improvement at the intersection of Highway 11/17 and Seymour.</p> <p>Related projects include 3700RD/SS/ST and 4500RD/SS/ST/WS.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2023		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2023	196,000	196,000	0			
2025	3,724,000	3,724,000	0	3117	DESIGN FEES	196,000
	<b>3,920,000</b>	<b>3,920,000</b>	<b>0</b>			<b>Total Expense: 196,000</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 3,920,000				
				0461	TSF FRM REV FUND-PAYGO	196,000
						<b>Total Revenue: 196,000</b>

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2023	75 Years	Adam Lacombe	Dec 31, 2026



<b>Number:</b>	3701RD	<b>Scenario:</b>	Main
<b>Title:</b>	Norman/Chapais Connection Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the connection of Norman Avenue to Chapais Street. Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>Included in these works are extensions to the trunk watermain that are critical to providing redundancy protection for the City's water network. These works will also tie in with future works related to the proposed North Bay Expressway.</p>	<p>The 2008 Infrastructure Background Study that was prepared in support of the Official Plan update identified that it is desirable to connect the Connaught/Norman area to the Chapais/McKeown area. This transportation link would connect the O'Brien Street and Trout Lake Road arterial.</p> <p>In addition, the study identified that future development would require watermain distribution improvements, including a new 600 mm watermain system along Norman Avenue, Chapais Street and Lansdowne Avenue.</p> <p>Related projects include 3701ST/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2026</td> <td>98,000</td> <td>98,000</td> <td>0</td> </tr> <tr> <td>2031</td> <td>1,274,000</td> <td>1,274,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,372,000</b></td> <td><b>1,372,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 1,372,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2026	98,000	98,000	0	2031	1,274,000	1,274,000	0		<b>1,372,000</b>	<b>1,372,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,372,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2026	98,000	98,000	0																		
2031	1,274,000	1,274,000	0																		
	<b>1,372,000</b>	<b>1,372,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,372,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3701ST	<b>Scenario:</b>	Main
<b>Title:</b>	Norman/Chapais Connection Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the connection of Norman Avenue to Chapais Street. Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>Included in these works are extensions to the trunk watermain that are critical to providing redundancy protection for the City's water network. These works will also tie in with future works related to the proposed North Bay Expressway.</p>	<p>The 2008 Infrastructure Background Study that was prepared in support of the Official Plan update identified that it is desirable to connect the Connaught/Norman area to the Chapais/McKeown area. This transportation link would connect the O'Brien Street and Trout Lake Road arterial.</p> <p>In addition, the study identified that future development would require watermain distribution improvements, including a new 600 mm watermain system along Norman Avenue, Chapais Street and Lansdowne Avenue.</p> <p>Related projects include 3701RD/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2026</td> <td>39,200</td> <td>39,200</td> <td>0</td> </tr> <tr> <td>2031</td> <td>490,000</td> <td>490,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>529,200</b></td> <td><b>529,200</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 529,200</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2026	39,200	39,200	0	2031	490,000	490,000	0		<b>529,200</b>	<b>529,200</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 529,200</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2026	39,200	39,200	0																		
2031	490,000	490,000	0																		
	<b>529,200</b>	<b>529,200</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 529,200</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3701WS	<b>Scenario:</b>	Main
<b>Title:</b>	Norman/Chapais Connection Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the connection of Norman Avenue to Chapais Street. Engineering services will include an Environmental Assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>Included in these works are extensions to the trunk watermain that are critical to providing redundancy protection for the City's water network. These works will also tie in with future works related to the proposed North Bay Expressway.</p>	<p>The 2008 Infrastructure Background Study that was prepared in support of the Official Plan update identified that it is desirable to connect the Connaught/Norman area to the Chapais/McKeown area. This transportation link would connect the O'Brien Street and Trout Lake Road arterial.</p> <p>In addition, the study identified that future development would require watermain distribution improvements including a new 600 mm watermain system along Norman Avenue, Chapais Street, and Lansdowne Avenue.</p> <p>Related projects include 3701RD/ST.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	58,800	58,800	0																		
2031	784,000	784,000	0																		
	<b>842,800</b>	<b>842,800</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 842,800</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3702PR	<b>Scenario:</b>	Main
<b>Title:</b>	Waterfront Building Rehab and Development	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
The program provides for the rehabilitation and/or development of Waterfront (Park) tourist related commercial attractions and/or related facilities (washrooms etc.).	<p>The City completed a Waterfront Tourism Attraction Feasibility Study (2014) and a Downtown Waterfront Land Use Master Plan (2017) which identified that future components of the Waterfront and Downtown should include development of commercial attractions and related facilities. These were followed by the completion of the King's Landing Redevelopment EA in 2019 which identified the preferred option for the redevelopment of King's Landing.</p> <p>The funding projected in 2027/ 2028 is for the necessary modernization and functional improvements of the City owned waterfront and marina facilities in a way that supports and is aligned to the commercialization of the Waterfront and redevelopment of King's Landing as outlined by the above studies and visions.</p> <p>If the commercialization as envisioned in the various studies and plans (Waterfront Tourism Attraction Feasibility Study, the Downtown Waterfront Master Plan, and King's Landing EA) does not move forward in a timely fashion the budgeted funds will be required to rehabilitate and modernize the current facilities to meet current needs and functional standards.</p> <p>Planning and design development is scheduled for 2027 and construction to follow in 2028.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2023																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2027	196,000	196,000	0																		
2028	1,764,000	1,764,000	0																		
	<b>1,960,000</b>	<b>1,960,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,960,000</b>																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2027	TBD	David Jackowski	Dec 31, 2028

<b>Number:</b>	3711RF	<b>Scenario:</b>	Main
<b>Title:</b>	City of North Bay Community and Recreation Centre	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	RECREATION FACILITY
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description				Comments		
<p>The project provides for the design and construction of a new multi-purpose community centre that includes a double ice pad facility, walking track, and multi-use community room.</p>				<p>West Ferris Arena has reached the end of its useful life. Council established the Arena Committee that recommended construction of a new Community Centre with two ice pads, a walking track, and the potential for other community-oriented amenities to be explored through the design phase. A contract for design services was awarded by Council in 2019.</p> <p>In 2020, 100% Completion of the Schematic Design, 100% of the Design Development and 75% of the Construction Detail portion of the design contract was completed. Work included multiple Client reviews and meetings, public info meeting, meetings and presentations to Stakeholders (Users) and multiple meetings and presentations to the Committee of Council. These meetings and presentations informed the design of the community centre.</p> <p>Construction Documents &amp; Class A Costing Phase of the project were completed in the fall of 2020. The project was presented to Council for direction to tender the project in late 2020 or early 2021. Due to competing capital funding requirements in 2021 and unknowns related to a major capital project, the project was paused until clarity was established. While paused, Council directed staff to initiate the tendering process to identify qualified general contractors that would subsequently bid on the subsequent tender when approved by Council to be issued. The pre-qualification process was completed in May of 2021. The Class A Costing was updated in June of 2021.</p> <p>In 2022, The Government of Canada announced that the City's application was approved for funding under the Green and Inclusive Community Buildings Program. The City was approved to receive up to \$25.778 million to cover eligible costs of the project.</p> <p>The project is shovel ready and will be presented to Council through the 2023 Capital Budget and Nine-Year Plan for direction to complete the tendering process for the project in early 2023.</p>		
Scenario Description				Scenario Comments		
Forecast				Project Detailed 2023		
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>	<b>GL Account</b>	<b>Description</b>	<b>Total Amount</b>
2023	21,823,780	21,823,780	0	<b>Expense</b>		
2024	21,823,780	21,823,780	0	3425	CONSTRUCTION CONTRACT	21,823,780
	<b>43,647,560</b>	<b>43,647,560</b>	<b>0</b>		<b>Total Expense:</b>	<b>21,823,780</b>
<b>LTD Amount:</b> 7,958,000		<b>Total Project Cost:</b> 51,605,560		<b>Revenue</b>		
				0461	TSF FRM REV FUND-PAYGO	750,000
				0608	CANADA COMMUNITY - BUILDING FUND (FEDERAL GAS TAX)	3,460,396
				0699	MISC FEDERAL GRANTS	17,613,384
					<b>Total Revenue:</b>	<b>21,823,780</b>
Related Projects				Operating Impacts		
Year Identified	Start Date	Useful Life	Manager		Completion Date	
2016	Sep 1, 2017	60 Years	David Jackowski		Dec 31, 2024	

<b>Number:</b>	3715RD	<b>Scenario:</b>	Main
<b>Title:</b>	Pinewood Park & Lakeshore Drive Intersection Reconstruction	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to reconstruct the intersection of Pinewood Park and Lakeshore Drive. Engineering services will include an environmental assessment, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction.</p> <p>Road works include the road base aggregates, asphalt, curb, gutter, and grass boulevard.</p>	<p>With the water and sanitary servicing works complete along Pinewood Park, future growth along the corridor will change the traffic patterns and volumes. The current intersection configuration may not support the change in traffic and will need to be reconstructed to a new configuration. This intersection was included in the Municipal Class Environmental Assessment for Lakeshore Drive and Pinewood Park Drive. Alternatives that were examined included additional lanes and corresponding changes to the traffic signals, as well as a roundabout.</p> <p>Related project includes 4005RD.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2024</td> <td>3,860,000</td> <td>3,860,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>3,860,000</b></td> <td><b>3,860,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 600,000</td> <td colspan="2"><b>Total Project Cost:</b> 4,460,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	3,860,000	3,860,000	0		<b>3,860,000</b>	<b>3,860,000</b>	<b>0</b>	<b>LTD Amount:</b> 600,000		<b>Total Project Cost:</b> 4,460,000		
Budget Year	Total Expense	Total Revenue	Difference														
2024	3,860,000	3,860,000	0														
	<b>3,860,000</b>	<b>3,860,000</b>	<b>0</b>														
<b>LTD Amount:</b> 600,000		<b>Total Project Cost:</b> 4,460,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2017	Jan 1, 2020	25 Years	Reid Porter	Dec 31, 2024

<b>Number:</b>	3719SS	<b>Scenario:</b>	Main
<b>Title:</b>	Digester Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for the replacement of the digester #4 at the Wastewater Treatment Plant.	The digester # 4 is past its useful life and is recommended for replacement.  The replacement process started in 2022, and through this process, the volume of sludge that needed to be cleaned out of the existing digester was greater- and therefore more costly- than anticipated. The 2023 budget will fund the remainder of the replacement process.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																					
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>490,000</td> <td>490,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>490,000</b></td> <td><b>490,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 5,150,000</b></td> <td colspan="2"><b>Total Project Cost: 5,640,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	490,000	490,000	0		<b>490,000</b>	<b>490,000</b>	<b>0</b>	<b>LTD Amount: 5,150,000</b>		<b>Total Project Cost: 5,640,000</b>		<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>490,000</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>490,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>490,000</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>490,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3425	CONSTRUCTION CONTRACT	490,000	<b>Total Expense:</b>		<b>490,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	490,000	<b>Total Revenue:</b>		<b>490,000</b>
Budget Year	Total Expense	Total Revenue	Difference																																			
2023	490,000	490,000	0																																			
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<b>Revenue</b>																																						
0461	TSF FRM REV FUND-PAYGO	490,000																																				
<b>Total Revenue:</b>		<b>490,000</b>																																				

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2017	Jan 1, 2018	50 Years	Karin Pratte	Dec 31, 2023



<b>Number:</b>	3801RD	<b>Scenario:</b>	Main
<b>Title:</b>	McKeown Ave. Widening - Gormanville to Cartier	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering design and construction services for the complete reconstruction of the above-ground infrastructure and to widen McKeown Avenue to four lanes between Gormanville Road and Cartier Street.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>McKeown Avenue is a primary arterial route between Algonquin Avenue and Gormanville Road, but the portion from Gormanville to Cartier is currently not constructed to an arterial standard. An Environmental Assessment completed in the early 2000s and subsequent studies in connection to development projects have identified and supported the need to increase the road to 4-lane and 5-lane sections.</p> <p>The budget includes funding through the Investing in Canada Infrastructure Program.</p> <p>The sanitary sewer and watermain will be reaching a typical end of useful life age and will need to be evaluated for repair, rehab, or replacement.</p> <p>An RFP for engineering services was issued November 15, 2021.</p> <p>The 2023 budget for 3801RD/ST is to provide for updated cost estimates and construction price increases in order to bring the project to completion.</p> <p>Related projects include 3801ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2023		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2023	1,078,000	1,078,000	0	Expense		
	<b>1,078,000</b>	<b>1,078,000</b>	<b>0</b>	3425	CONSTRUCTION CONTRACT	1,078,000
					<b>Total Expense:</b>	<b>1,078,000</b>
	<b>LTD Amount:</b> 5,640,000	<b>Total Project Cost:</b> 6,718,000		Revenue		
				0461	TSF FRM REV FUND-PAYGO	66,000
				0539	ONT COMMUNITY INFR OCIF	1,012,000
					<b>Total Revenue:</b>	<b>1,078,000</b>

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2020	25 Years	Reid Porter	Dec 31, 2024

<b>Number:</b>	3801ST	<b>Scenario:</b>	Main
<b>Title:</b>	McKeown Ave. Widening - Gormanville to Cartier	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering design and construction services for the complete reconstruction of the above-ground infrastructure and to widen McKeown Avenue to four lanes between Gormanville Road and Cartier Street.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>McKeown Avenue is a primary arterial route between Algonquin Avenue and Gormanville Road, but the portion from Gormanville to Cartier is currently not constructed to an arterial standard. An Environmental Assessment completed in the early 2000s and subsequent studies in connection to development projects have identified and supported the need to increase the road to 4-lane and 5-lane sections.</p> <p>The budget includes funding through the Investing in Canada Infrastructure Program.</p> <p>The sanitary sewer and watermain will be reaching a typical end of useful life age and will need to be evaluated for repair, rehab, or replacement.</p> <p>An RFP for engineering services was issued November 15, 2021.</p> <p>The 2023 budget for 3801RD/ST is to provide for updated cost estimates and construction price increases in order to bring the project to completion.</p> <p>Related projects include 3801RD/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2023		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2023	392,000	392,000	0	Expense		
	<b>392,000</b>	<b>392,000</b>	<b>0</b>	3425	CONSTRUCTION CONTRACT	392,000
					<b>Total Expense:</b>	<b>392,000</b>
	<b>LTD Amount:</b> 775,000	<b>Total Project Cost:</b> 1,167,000		Revenue		
				0461	TSF FRM REV FUND-PAYGO	67,000
				0539	ONT COMMUNITY INFR OCIF	325,000
					<b>Total Revenue:</b>	<b>392,000</b>

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2020	75 Years	Reid Porter	Dec 31, 2024

<b>Number:</b>	3802RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at road upgrades.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over two phases - Phase 1 will include Judge Avenue to Gertrude Street, and Phase 2 will include Gertrude Street to Marshall Avenue. Additionally, watermain upsizing from Marshall to Birchs is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include Phase 1- 4125RD/ST/SS/WS, Phase 2- 3802ST/SS/WS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2023																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2028</td> <td>343,000</td> <td>343,000</td> <td>0</td> </tr> <tr> <td>2030</td> <td>6,468,000</td> <td>6,468,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>6,811,000</b></td> <td><b>6,811,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 6,811,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2028	343,000	343,000	0	2030	6,468,000	6,468,000	0		<b>6,811,000</b>	<b>6,811,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 6,811,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2028	343,000	343,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 6,811,000</b>																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2028	25 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3802SS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at road upgrades.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over two phases - Phase 1 will include Judge Avenue to Gertrude Street, and Phase 2 will include Gertrude Street to Marshall Avenue. Additionally, watermain upsizing from Marshall to Birchs is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include Phase 1- 4125RD/ST/SS/WS, Phase 2- 3802RD/ST/WS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2023																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3802ST	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at road upgrades.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over two phases - Phase 1 will include Judge Avenue to Gertrude Street, and Phase 2 will include Gertrude Street to Marshall Avenue. Additionally, watermain upsizing from Marshall to Birchs is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include Phase 1- 4125RD/ST/SS/WS, Phase 2- 3802RD/SS/WS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2023																				
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3802WS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100 mm distribution watermain, adding a new 400 mm transmission watermain, and adding a new 500 mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An Environmental Assessment will also be conducted to look at road upgrades.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over two phases - Phase 1 will include Judge Avenue to Gertrude Street, and Phase 2 will include Gertrude Street to Marshall Avenue. Additionally, watermain upsizing from Marshall to Birchs is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include Phase 1- 4125RD/ST/SS/WS, Phase 2- 3802RD/ST/SS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2023																				
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3810RD	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. - Gormanville to Memorial	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services to upgrade the sanitary trunk sewer from Gormanville Road to Memorial Drive (an approximate length of 1,500 meters). The sewer alignment will follow Main Street from Gormanville Road to Harriet Street, Harriet Street from Main Street to Nipissing Street and CP Rail lands from Nipissing Street to Memorial Drive.	<p>The 2008 Infrastructure Background Study prepared in support of the Official Plan update identified that the existing trunk sewer will be undersized to support future development including the Cedar Heights area, Canadore College and Nipissing University expansion and Main West commercial development.</p> <p>A contract for engineering services was awarded to an engineering consultant in 2009 and included preliminary design.</p> <p>Upgrading the road to a proper collector standard will be evaluated, including upgrading to curb and gutter and storm sewer system. The condition of the watermain will also be evaluated for repair/ rehabilitation/ reconstruction needs.</p> <p>Related projects include 3810ST/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,302,600</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2028	25 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3810SS	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. - Gormanville to Memorial	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services to upgrade the sanitary trunk sewer from Gormanville Road to Memorial Drive (an approximate length of 1,500 meters). The sewer alignment will follow Main Street from Gormanville Road to Harriet Street, Harriet Street from Main Street to Nipissing Street and CP Rail lands from Nipissing Street to Memorial Drive.	<p>The 2008 Infrastructure Background Study prepared in support of the Official Plan update identified that the existing trunk sewer will be undersized to support future development including the Cedar Heights area, Canadore College and Nipissing University expansion and Main West commercial development.</p> <p>A contract for engineering services was awarded to an engineering consultant in 2009 and included preliminary design.</p> <p>Upgrading the road to a proper collector standard will be evaluated, including upgrading to curb and gutter and storm sewer system. The condition of the watermain will also be evaluated for repair/ rehabilitation/ reconstruction needs.</p> <p>Related projects include 3810RD/ST/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 4,233,600</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031



<b>Number:</b>	3810ST	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. - Gormanville to Memorial	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services to upgrade the sanitary trunk sewer from Gormanville Road to Memorial Drive (an approximate length of 1,500 meters). The sewer alignment will follow Main Street from Gormanville Road to Harriet Street, Harriet Street from Main Street to Nipissing Street and CP Rail lands from Nipissing Street to Memorial Drive.	<p>The 2008 Infrastructure Background Study prepared in support of the Official Plan update identified that the existing trunk sewer will be undersized to support future development including the Cedar Heights area, Canadore College and Nipissing University expansion and Main West commercial development.</p> <p>A contract for engineering services was awarded to an engineering consultant in 2009 and included preliminary design.</p> <p>Upgrading the road to a proper collector standard will be evaluated, including upgrading to curb and gutter and storm sewer system. The condition of the watermain will also be evaluated for repair/ rehabilitation/ reconstruction needs.</p> <p>Related projects include 3810RD/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2028	58,800	58,800	0																		
2030	1,078,000	1,078,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,136,800</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3810WS	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. - Gormanville to Memorial	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services to upgrade the sanitary trunk sewer from Gormanville Road to Memorial Drive (an approximate length of 1,500 meters). The sewer alignment will follow Main Street from Gormanville Road to Harriet Street, Harriet Street from Main Street to Nipissing Street and CP Rail lands from Nipissing Street to Memorial Drive.	<p>The 2008 Infrastructure Background Study prepared in support of the Official Plan update identified that the existing trunk sewer will be undersized to support future development including the Cedar Heights area, Canadore College and Nipissing University expansion and Main West commercial development.</p> <p>A contract for engineering services was awarded to an engineering consultant in 2009 and included preliminary design.</p> <p>Upgrading the road to a proper collector standard will be evaluated, including upgrading to curb and gutter and storm sewer system. The condition of the watermain will also be evaluated for repair/ rehabilitation/ reconstruction needs.</p> <p>Related projects include 3810RD/ST/SS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,234,800</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2009	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3812RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. (ONR Overpass)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the necessary remedial works to the structure to repair various components of the Lakeshore Drive Overpass (over ONR and CP Rail).	The Lakeshore Drive Overpass is the City's largest bridge structure. Major rehabilitation and reconstruction works were carried out in 2016/2017 including the abutments, abutment seats, piers, pier caps, etc., as well as replacement of the bridge deck including asphalt, sidewalks, curb and gutter, barrier wall and street lights.  Additional rehabilitation works have been identified for the future.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2024 to 2032: 2026 Perform a bridge inspection and assessment 2031 Repairs and rehab based on the assessment performed in 2026

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	24,500	24,500	0																		
2031	245,000	245,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 269,500</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3813RD	<b>Scenario:</b>	Main
<b>Title:</b>	Trout Lake Rd. (ONR Overpass)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project involves the necessary remedial works to repair the Trout Lake Road Overpass over the ONR tracks.		The Trout Lake Road Overpass is the City's second largest bridge structure. Significant rehabilitation works were carried out in 2017 including rehabilitation to the wearing surface, sidewalk, curb, median and barrier walls.  Additional rehabilitation works have been identified for the future.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
		The following details support the Capital Forecast for 2024 to 2032: 2026 Perform a bridge inspection and assessment 2031 Repairs and rehab based on the assessment performed in 2026	

<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2026	24,500	24,500	0
2031	245,000	245,000	0
	<b>269,500</b>	<b>269,500</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 269,500		

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2018	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3814RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lees Road Reconstruction	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services for reconstruction of the road. Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction.	The road structure is nearing the end of its useful life and will need to be reconstructed or rehabilitated. Road geometry will also be evaluated for improvement to meet current industry standards.  The 2023 budget provides for the completion of the project at the rail crossing on Lees Road which must be completed but was not included in the original scope of the project.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2020	25 Years	Gerry McCrank	Dec 31, 2023

<b>Number:</b>	3815RD	<b>Scenario:</b>	Main
<b>Title:</b>	Trout Lake Road Retaining Wall Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for the rehabilitation/ reconstruction of the retaining wall and storm drainage system between Lakeheights Rd. and Lees Rd.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction technical assistance.</p>	<p>The existing retaining wall located between Lakeheights Road and Lees Road on the north side of Trout Lake Road has significant cracking. A condition assessment was carried out in 2016 which identified that the retaining wall was subject to alkali–aggregate reaction - an irreversible condition causing expansion and cracking. The wall will need replacement or significant rehabilitation to extend some life in the wall.</p> <p>In addition, the retaining wall drainage system is not performing properly, especially during the spring melt.</p> <p>Project 4006RD - Trout Lake Road (Mountainview to Lees Road) was substantially completed in 2022 and involves the reconstruction of the roadway adjacent to the wall.</p> <p>Related project includes 3815ST and 4006RD.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2023																
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Budget Year	Total Expense	Total Revenue	Difference														
2032	2,450,000	2,450,000	0														
	<b>2,450,000</b>	<b>2,450,000</b>	<b>0</b>														
<b>LTD Amount:</b> 50,000	<b>Total Project Cost:</b> 2,500,000																

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2022	50 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	3815ST	<b>Scenario:</b>	Main
<b>Title:</b>	Trout Lake Road Retaining Wall Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the rehabilitation/ reconstruction of the retaining wall and storm drainage system between Lakeheights Rd. and Lees Rd.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction technical assistance.</p>	<p>The existing retaining wall located between Lakeheights Road and Lees Road on the north side of Trout Lake Road has significant cracking. A condition assessment was carried out in 2016 which identified that the retaining wall was subject to alkali-aggregate reaction - an irreversible condition causing expansion and cracking. The wall will need replacement or significant rehabilitation to extend some life in the wall.</p> <p>In addition, the retaining wall drainage system is not performing properly, especially during the spring melt.</p> <p>Project 4006RD - Trout Lake Road (Mountainview to Lees Road) was substantially completed in 2022 and involves the reconstruction of the roadway adjacent to the wall.</p> <p>Related project includes 3815RD and 4006RD.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2032	245,000	245,000	0														
	<b>245,000</b>	<b>245,000</b>	<b>0</b>														
<b>LTD Amount:</b> 15,000		<b>Total Project Cost:</b> 260,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2022	75 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	3818RD	<b>Scenario:</b>	Main
<b>Title:</b>	Premier Pumping Station Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project involves the replacement of the Premier lift station as well as all of the equipment within.		The station is at the end of its useful life and requires full replacement. A Municipal Class Environmental Assessment was commenced in 2021 and will evaluate various alternatives, including various sites for the new lift station.  The 2025 budget will be to finalize the road construction of the project.  Related projects include 3818SS.	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	343,000	343,000	0
	<b>343,000</b>	<b>343,000</b>	<b>0</b>
<b>LTD Amount:</b> 650,000		<b>Total Project Cost:</b> 993,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2018	Jan 1, 2021	25 Years	Gerry McCrank
			<b>Completion Date</b>
			Dec 31, 2025



<b>Number:</b>	3823FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Master Plan	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Master Plans
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	FIRE DEPARTMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The purpose of this project is to identify the fire protection needs of the community in the short and long term and to balance these needs against the municipal goals and objectives.		The Fire Master Plan will set the direction of Fire and Emergency Services keeping pace with corporate needs and goals.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
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<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	88,200	88,200	0
	<b>88,200</b>	<b>88,200</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 88,200		

<b>Related Projects</b>		<b>Operating Impacts</b>	
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2018	Jan 1, 2025	TBD	Jason Whiteley	Dec 31, 2025

<b>Number:</b>	3825SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Intake Chamber Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation/ replacement of the intake chamber at the Wastewater Treatment Plant.	The sewage intake chamber has been identified as being past its anticipated service life and is due for significant rehabilitation or replacement. There is currently only one intake chamber which receives all sewage for the entire City of North Bay. This project will increase reliability and will look at options for flood mitigation of the intake chambers when Lake Nipissing levels become high.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																									
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Budget Year	Total Expense	Total Revenue	Difference																																							
2023	5,120,500	5,120,500	0																																							
2024	2,450,000	2,450,000	0																																							
	<b>7,570,500</b>	<b>7,570,500</b>	<b>0</b>																																							
<b>LTD Amount:</b> 566,000		<b>Total Project Cost:</b> 8,136,500																																								
GL Account	Description	Total Amount																																								
<b>Expense</b>																																										
3425	CONSTRUCTION CONTRACT	5,120,500																																								
<b>Total Expense:</b>		<b>5,120,500</b>																																								
<b>Revenue</b>																																										
0461	TSF FRM REV FUND-PAYGO	5,120,500																																								
<b>Total Revenue:</b>		<b>5,120,500</b>																																								

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2022	80 Years	Karin Pratte	Dec 31, 2024

<b>Number:</b>	3826SS	<b>Scenario:</b>	Main
<b>Title:</b>	Pumping Station Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services for the rehabilitation/reconstruction of various sanitary pumping stations. Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction.	A condition assessment will be undertaken on all of the pumping stations and the most critical replacements will be prioritized.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																												
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2027</td> <td>1,470,000</td> <td>1,470,000</td> <td>0</td> </tr> <tr> <td>2028</td> <td>4,900,000</td> <td>4,900,000</td> <td>0</td> </tr> <tr> <td>2030</td> <td>4,900,000</td> <td>4,900,000</td> <td>0</td> </tr> <tr> <td>2031</td> <td>2,450,000</td> <td>2,450,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>13,720,000</b></td> <td><b>13,720,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 13,720,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2027	1,470,000	1,470,000	0	2028	4,900,000	4,900,000	0	2030	4,900,000	4,900,000	0	2031	2,450,000	2,450,000	0		<b>13,720,000</b>	<b>13,720,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 13,720,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																										
2027	1,470,000	1,470,000	0																										
2028	4,900,000	4,900,000	0																										
2030	4,900,000	4,900,000	0																										
2031	2,450,000	2,450,000	0																										
	<b>13,720,000</b>	<b>13,720,000</b>	<b>0</b>																										
<b>LTD Amount: 0</b>		<b>Total Project Cost: 13,720,000</b>																											

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2027	50 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	3828WS	<b>Scenario:</b>	Main
<b>Title:</b>	West Ferris Trunk Watermain Relining	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
This project will involve the installation of a structural liner that will reinforce the existing West Ferris trunk watermain.		This project will involve the 500mm trunk watermain that supplies the majority of the West Ferris area and has a history of breaks.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	2,200,300	2,200,300	0
	<b>2,200,300</b>	<b>2,200,300</b>	<b>0</b>
<b>LTD Amount:</b> 975,060		<b>Total Project Cost:</b> 3,175,360	

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2018	Jan 1, 2018	75 Years	Gerry McCrank	Dec 31, 2024

<b>Number:</b>	3830GD	<b>Scenario:</b>	Main
<b>Title:</b>	Merrick Landfill Gas (LFG) Collection Infrastructure	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Environmental
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	WASTE DISPOSAL
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program involves the construction of a LFG collection system in each of the landfill cells as the landfill expands. The collection system includes piping, valves, controls, and wells.	Collection of landfill gases is necessary to remain compliant with Merrick Landfill's Certificate of Approval and to efficiently supply landfill gas to Merrick's Gas Utilization System. Expansion is related to the timing of the filling of the working Cell and Landfill Leachate Management Cell expansion, which is done, approximately, every 4-5 years. Funding from Merrick Reserves (99515R) will be utilized.  Related project includes 4203GD.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																												
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2026</td> <td>150,000</td> <td>150,000</td> <td>0</td> </tr> <tr> <td>2027</td> <td>637,000</td> <td>637,000</td> <td>0</td> </tr> <tr> <td>2030</td> <td>147,000</td> <td>147,000</td> <td>0</td> </tr> <tr> <td>2031</td> <td>637,000</td> <td>637,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,571,000</b></td> <td><b>1,571,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 685,824</td> <td colspan="2"><b>Total Project Cost:</b> 2,256,824</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2026	150,000	150,000	0	2027	637,000	637,000	0	2030	147,000	147,000	0	2031	637,000	637,000	0		<b>1,571,000</b>	<b>1,571,000</b>	<b>0</b>	<b>LTD Amount:</b> 685,824		<b>Total Project Cost:</b> 2,256,824		
Budget Year	Total Expense	Total Revenue	Difference																										
2026	150,000	150,000	0																										
2027	637,000	637,000	0																										
2030	147,000	147,000	0																										
2031	637,000	637,000	0																										
	<b>1,571,000</b>	<b>1,571,000</b>	<b>0</b>																										
<b>LTD Amount:</b> 685,824		<b>Total Project Cost:</b> 2,256,824																											

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2021	20 Years	Karin Pratte	Dec 31, 2031

<b>Number:</b>	3900RD	<b>Scenario:</b>	Main
<b>Title:</b>	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>				<b>Comments</b>			
<p>The project involves the engineering and construction services for the first phase of the looping of Water Zone 2B (Cedar Heights) to Water Zone 3 (Ellendale) as a second feed to both water zones.</p> <p>The project will include reconstruction of Cedar Heights Road as well as installation of a new sanitary sewer.</p> <p>This will be the first phase of the project and will extend from the College Drive/ Larocque Road intersection easterly approximately 800m. The services will extend from the existing services at the College Drive/ Larocque Road intersection.</p>				<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain to loop Zone 2B and Zone 3 along Cedar Heights Road and Golf Club Road will provide a second feed to both areas and provide a key reinforcement of these systems.</p> <p>Related projects include 3900ST/SS/WS.</p>			
<b>Scenario Description</b>				<b>Scenario Comments</b>			
<b>Forecast</b>				<b>Project Detailed 2023</b>			
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>				
2025	107,800	107,800	0				
2026	2,646,000	2,646,000	0				
	<b>2,753,800</b>	<b>2,753,800</b>	<b>0</b>				
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 2,753,800					
<b>Related Projects</b>				<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>		<b>Completion Date</b>		
2011	Jan 1, 2025	25 Years	Adam Lacombe		Dec 31, 2026		

<b>Number:</b>	3900SS	<b>Scenario:</b>	Main
<b>Title:</b>	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the first phase of the looping of Water Zone 2B (Cedar Heights) to Water Zone 3 (Ellendale) as a second feed to both water zones.</p> <p>The project will include reconstruction of Cedar Heights Road as well as installation of a new sanitary sewer.</p> <p>This will be the first phase of the project and will extend from the College Drive/ Larocque Road intersection easterly approximately 800m. The services will extend from the existing services at the College Drive/ Larocque Road intersection.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain to loop Zone 2B and Zone 3 along Cedar Heights Road and Golf Club Road will provide a second feed to both areas and provide a key reinforcement of these systems.</p> <p>Related projects include 3900RD/ST/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2025</td> <td>19,600</td> <td>19,600</td> <td>0</td> </tr> <tr> <td>2026</td> <td>1,470,000</td> <td>1,470,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,489,600</b></td> <td><b>1,489,600</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 0</td> <td colspan="2"><b>Total Project Cost:</b> 1,489,600</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2025	19,600	19,600	0	2026	1,470,000	1,470,000	0		<b>1,489,600</b>	<b>1,489,600</b>	<b>0</b>	<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,489,600		
Budget Year	Total Expense	Total Revenue	Difference																		
2025	19,600	19,600	0																		
2026	1,470,000	1,470,000	0																		
	<b>1,489,600</b>	<b>1,489,600</b>	<b>0</b>																		
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,489,600																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	3900ST	<b>Scenario:</b>	Main
<b>Title:</b>	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the first phase of the looping of Water Zone 2B (Cedar Heights) to Water Zone 3 (Ellendale) as a second feed to both water zones.</p> <p>The project will include reconstruction of Cedar Heights Road as well as installation of a new sanitary sewer.</p> <p>This will be the first phase of the project and will extend from the College Drive/ Larocque Road intersection easterly approximately 800m. The services will extend from the existing services at the College Drive/ Larocque Road intersection.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain to loop Zone 2B and Zone 3 along Cedar Heights Road and Golf Club Road will provide a second feed to both areas and provide a key reinforcement of these systems.</p> <p>Related projects include 3900RD/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2025	49,000	49,000	0																		
2026	686,000	686,000	0																		
	<b>735,000</b>	<b>735,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 735,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2026



<b>Number:</b>	3900WS	<b>Scenario:</b>	Main
<b>Title:</b>	Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the first phase of the looping of Water Zone 2B (Cedar Heights) to Water Zone 3 (Ellendale) as a second feed to both water zones.</p> <p>The project will include reconstruction of Cedar Heights Road as well as installation of a new sanitary sewer.</p> <p>This will be the first phase of the project and will extend from the College Drive/ Larocque Road intersection easterly approximately 800m. The services will extend from the existing services at the College Drive/ Larocque Road intersection.</p>		<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain to loop Zone 2B and Zone 3 along Cedar Heights Road and Golf Club Road will provide a second feed to both areas and provide a key reinforcement of these systems.</p> <p>Related projects include 3900RD/ST/SS.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	98,000	98,000	0
2026	1,764,000	1,764,000	0
	<b>1,862,000</b>	<b>1,862,000</b>	<b>0</b>
<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,862,000</b>	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2014	Jan 1, 2025	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2026

<b>Number:</b>	3905WS	<b>Scenario:</b>	Main
<b>Title:</b>	Cedar Heights Rd. - Larocque BPS	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project is to provide for the construction of the Larocque booster pumping station (BPS).</p> <p>The third phase of the Cedar Heights water infrastructure upgrades and expansion is to construct a booster pumping station near the Larocque standpipe. Under certain conditions some areas serviced by the standpipe will not have sufficient pressure to meet current standards; therefore, a booster station is required to increase the pressure.</p>	<p>Engineering services were previously completed for an environmental assessment, preliminary design, detailed design, agency approvals, and contract drawings. Since the design will be on the shelf, immediately prior to tendering and construction, the design will need to be reviewed again and updated for any changes in conditions since the original completion, including any physical changes to the site, changes in standards or regulations, etc.</p> <p>Construction of Phase 1 was completed in 2015, and included construction of the Cedar Heights booster pumping station on College Drive, as well as the installation of sewer and water and a pathway on College drive. Phase 2 was completed in 2020 and included continuation of the sewer and water installation as well as a standpipe on Larocque Road.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2025	49,000	49,000	0																		
2027	3,920,000	3,920,000	0																		
	<b>3,969,000</b>	<b>3,969,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,969,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2013	Jan 1, 2025	50 Years	Adam Lacombe	Dec 31, 2027

<b>Number:</b>	3908ST	<b>Scenario:</b>	Main
<b>Title:</b>	Trunk Sewer Rehab - Eastview Tributary System	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the rehabilitation of the Eastview Tributary Storm System. The works will include trenchless technologies to preserve the existing pipe works and extend the system's life. The Eastview Tributary is part of the Chippewa Creek watershed and generally runs from Ski Club Road south towards Northgate Square.</p> <p>A portion of the watercourse north of Trout Lake Road is enclosed in a storm sewer which runs along a back lot easement of the residential properties on the east side of Laurentian Avenue.</p> <p>Engineering services will include survey, condition inspection, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>This work is being done as a preventative treatment at minimum cost to avoid potential collapse and emergency replacement. The trenchless methods are very cost effective by not requiring surface restorations and significant disturbance to the surrounding neighbourhood.</p> <p>The work will be constructed in one phase.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	98,000	98,000	0																		
2026	980,000	980,000	0																		
	<b>1,078,000</b>	<b>1,078,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,078,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2024	25 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	3909RD	<b>Scenario:</b>	Main
<b>Title:</b>	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the replacement of 100mm watermains in various locations of the downtown area, including 100mm watermains on Wyld Street, Worthington Street, Sherbrooke Street, and Second Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. In addition to the watermain replacement, the construction works will also include restoration of the disturbed surface areas, including road base aggregates, asphalt, curb, gutter, grass boulevard and grassed ditches.</p>		<p>Historically, 100mm watermains have been problematic due to build-up of tubercles and other corrosion deposits inside the mains, leading to significant reduction in flow capacity. Additionally, a Fire Underwriter's Survey identified an excessive amount of 100mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100mm watermains will mitigate risk due to reduced fire flows and will address the Fire Underwriter's Survey concerns.</p> <p>The project will be constructed in one phase. The related projects include 3909SS/ST/WS.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	127,400	127,400	0
2032	2,352,000	2,352,000	0
	<b>2,479,400</b>	<b>2,479,400</b>	<b>0</b>
<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,479,400</b>	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2011	Jan 1, 2025	25 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2032

<b>Number:</b>	3909SS	<b>Scenario:</b>	Main
<b>Title:</b>	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the replacement of 100mm watermains in various locations of the downtown area, including 100mm watermains on Wyld Street, Worthington Street, Sherbrooke Street, and Second Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. In addition to the watermain replacement, the construction works will also include restoration of the disturbed surface areas, including road base aggregates, asphalt, curb, gutter, grass boulevard and grassed ditches.</p>	<p>Historically, 100mm watermains have been problematic due to build-up of tubercles and other corrosion deposits inside the mains, leading to significant reduction in flow capacity. Additionally, a Fire Underwriter's Survey identified an excessive amount of 100mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100mm watermains will mitigate risk due to reduced fire flows and will address the Fire Underwriter's Survey concerns.</p> <p>The project will be constructed in one phase. The related projects include 3909RD/ST/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2025</td> <td>49,000</td> <td>49,000</td> <td>0</td> </tr> <tr> <td>2032</td> <td>882,000</td> <td>882,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>931,000</b></td> <td><b>931,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 931,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2025	49,000	49,000	0	2032	882,000	882,000	0		<b>931,000</b>	<b>931,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 931,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2025	49,000	49,000	0																		
2032	882,000	882,000	0																		
	<b>931,000</b>	<b>931,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 931,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	3909ST	<b>Scenario:</b>	Main
<b>Title:</b>	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the replacement of 100mm watermains in various locations of the downtown area, including 100mm watermains on Wyld Street, Worthington Street, Sherbrooke Street, and Second Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. In addition to the watermain replacement, the construction works will also include restoration of the disturbed surface areas, including road base aggregates, asphalt, curb, gutter, grass boulevard and grassed ditches.</p>		<p>Historically, 100mm watermains have been problematic due to build-up of tubercles and other corrosion deposits inside the mains, leading to significant reduction in flow capacity. Additionally, a Fire Underwriter's Survey identified an excessive amount of 100mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100mm watermains will mitigate risk due to reduced fire flows and will address the Fire Underwriter's Survey concerns.</p> <p>The project will be constructed in one phase. The related projects include 3909RD/SS/WS.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	49,000	49,000	0
2032	882,000	882,000	0
	<b>931,000</b>	<b>931,000</b>	<b>0</b>
<b>LTD Amount: 0</b>		<b>Total Project Cost: 931,000</b>	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2011	Jan 1, 2025	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2032

<b>Number:</b>	3909WS	<b>Scenario:</b>	Main
<b>Title:</b>	Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the replacement of 100mm watermains in various locations of the downtown area, including 100mm watermains on Wyld Street, Worthington Street, Sherbrooke Street, and Second Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. In addition to the watermain replacement, the construction works will also include restoration of the disturbed surface areas, including road base aggregates, asphalt, curb, gutter, grass boulevard and grassed ditches.</p>	<p>Historically, 100mm watermains have been problematic due to build-up of tubercles and other corrosion deposits inside the mains, leading to significant reduction in flow capacity. Additionally, a Fire Underwriter's Survey identified an excessive amount of 100mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100mm watermains will mitigate risk due to reduced fire flows and will address the Fire Underwriter's Survey concerns.</p> <p>The project will be constructed in one phase. The related projects include 3909RD/SS/ST.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2025</td> <td>49,000</td> <td>49,000</td> <td>0</td> </tr> <tr> <td>2032</td> <td>980,000</td> <td>980,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,029,000</b></td> <td><b>1,029,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 1,029,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2025	49,000	49,000	0	2032	980,000	980,000	0		<b>1,029,000</b>	<b>1,029,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,029,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2025	49,000	49,000	0																		
2032	980,000	980,000	0																		
	<b>1,029,000</b>	<b>1,029,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,029,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	3910ST	<b>Scenario:</b>	Main
<b>Title:</b>	Chippewa Creek and Airport Heights Stormwater Retention	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services to construct a stormwater management (SWM) pond approximately 350 meters east of O'Brien Street and 150 meters north of Airport Road and to construct a drainage channel and recreational pathway/ maintenance road from Kenwood Hills Drive to the pond.</p> <p>For new development on the north side of Airport Road, the pond will provide quantity control to mitigate flooding impacts in Chippewa Creek. The pond will also provide quality control to mitigate sedimentation into the creek for a significant portion of the existing and future development in the Airport Heights area.</p>		<p>A contract for engineering services was awarded to an engineering consultant in 2009 which included an environmental assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>The Chippewa Creek Watershed Study identified that future development in the Airport Heights area would require quantity and quality control. The Highland Woods development was allowed to proceed based on the SWM requirements being met by the construction of this SWM pond. The SWM pond, channel, and recreational pathway/ maintenance road will be constructed in one phase.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	2,450,000	2,450,000	0
	<b>2,450,000</b>	<b>2,450,000</b>	<b>0</b>
<b>LTD Amount:</b> 50,000		<b>Total Project Cost:</b> 2,500,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2009	Jan 1, 2022	50 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2024



<b>Number:</b>	3919RD	<b>Scenario:</b>	Main
<b>Title:</b>	Metcalfe St - Laurier to End	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Metcalfe St from Laurier southwesterly to the dead-end.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer &amp; Water Department.</p>		<p>The pavement structure on Metcalfe St from Laurier to the dead-end has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e., no ditches and no curb and gutter system. Drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3919ST/SS/WS</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2026	686,000	686,000	0
	<b>686,000</b>	<b>686,000</b>	<b>0</b>
<b>LTD Amount:</b> 40,000		<b>Total Project Cost:</b> 726,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2019	Jan 1, 2021	25 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2026

<b>Number:</b>	3919SS	<b>Scenario:</b>	Main
<b>Title:</b>	Metcalfe St - Laurier to End	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Metcalfe St from Laurier southwesterly to the dead-end.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer &amp; Water Department.</p>		<p>The pavement structure on Metcalfe St from Laurier to the dead-end has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e., no ditches and no curb and gutter system. Drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3919RD/ST/WS</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2026	392,000	392,000	0
	<b>392,000</b>	<b>392,000</b>	<b>0</b>
<b>LTD Amount:</b> 30,000		<b>Total Project Cost:</b> 422,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2019	Jan 1, 2021	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2026

<b>Number:</b>	3919ST	<b>Scenario:</b>	Main
<b>Title:</b>	Metcalfe St - Laurier to End	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Metcalfe St from Laurier southwesterly to the dead-end.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer &amp; Water Department.</p>		<p>The pavement structure on Metcalfe St from Laurier to the dead-end has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e., no ditches and no curb and gutter system. Drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3919RD/SS/WS</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2026	490,000	490,000	0
	<b>490,000</b>	<b>490,000</b>	<b>0</b>
<b>LTD Amount:</b> 30,000		<b>Total Project Cost:</b> 520,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2019	Jan 1, 2021	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2026

<b>Number:</b>	3919WS	<b>Scenario:</b>	Main
<b>Title:</b>	Metcalfe St - Laurier to End	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway and underground infrastructure on Metcalfe St from Laurier southwesterly to the dead-end.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance. Construction will be undertaken by the City's Sewer &amp; Water Department.</p>		<p>The pavement structure on Metcalfe St from Laurier to the dead-end has reached the end of its useful life and is no longer a candidate for rehabilitation treatments. The roadway is not constructed to current standards and has no formal drainage system - i.e., no ditches and no curb and gutter system. Drainage issues are apparent throughout. The underground infrastructure (sanitary and water) is also at the end of its useful life and requires replacement. The road will be brought up to a current local road standard.</p> <p>Related projects include 3919RD/ST/SS</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2026	392,000	392,000	0
	<b>392,000</b>	<b>392,000</b>	<b>0</b>
<b>LTD Amount:</b> 30,000		<b>Total Project Cost:</b> 422,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2019	Jan 1, 2021	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2026

<b>Number:</b>	3920RD	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien Street - Ski Club to Airport & Ski Club Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on O'Brien from Airport to Ski Club to improve the road to a current urban collector road standard, as well as installation of new traffic signals at the intersection of O'Brien and Ski Club. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>		<p>The configuration of O'Brien from Airport to Ski Club does not meet current urban collector standards. The roadway and intersection at Ski Club has reached its capacity and requires upgrading to reduce congestion in the area. The Ski Club intersection is currently controlled by an all-way stop control - replacement of this control with traffic signals that are coordinated with the traffic signals at the Airport Road intersection will provide increased capacity. Upgrading the road to meet current urban collector standards, including the addition of curb and gutters and a proper drainage system will provide more traffic capacity and will improve the life expectancy of the pavement structure. The road was resurfaced in 2021 to provide a suitable driving surface in the interim.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3920ST/SS/WS and 4032RD/ST/SS/WS.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	68,600	68,600	0
2026	1,274,000	1,274,000	0
	<b>1,342,600</b>	<b>1,342,600</b>	<b>0</b>
<b>LTD Amount:</b> 6,791		<b>Total Project Cost:</b> 1,349,391	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2019	Jan 1, 2019	25 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2026

<b>Number:</b>	3920SS	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien Street - Ski Club to Airport & Ski Club Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on O'Brien from Airport to Ski Club to improve the road to a current urban collector road standard, as well as installation of new traffic signals at the intersection of O'Brien and Ski Club. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The configuration of O'Brien from Airport to Ski Club does not meet current urban collector standards. The roadway and intersection at Ski Club has reached its capacity and requires upgrading to reduce congestion in the area. The Ski Club intersection is currently controlled by an all-way stop control - replacement of this control with traffic signals that are coordinated with the traffic signals at the Airport Road intersection will provide increased capacity. Upgrading the road to meet current urban collector standards, including the addition of curb and gutters and a proper drainage system will provide more traffic capacity and will improve the life expectancy of the pavement structure. The road was resurfaced in 2021 to provide a suitable driving surface in the interim.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3920RD/ST/WS and 4032RD/ST/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2026</td> <td>392,000</td> <td>392,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>392,000</b></td> <td><b>392,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 20,000</b></td> <td colspan="2"><b>Total Project Cost: 412,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2026	392,000	392,000	0		<b>392,000</b>	<b>392,000</b>	<b>0</b>	<b>LTD Amount: 20,000</b>		<b>Total Project Cost: 412,000</b>		
Budget Year	Total Expense	Total Revenue	Difference														
2026	392,000	392,000	0														
	<b>392,000</b>	<b>392,000</b>	<b>0</b>														
<b>LTD Amount: 20,000</b>		<b>Total Project Cost: 412,000</b>															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2019	75 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	3920ST	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien Street - Ski Club to Airport & Ski Club Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on O'Brien from Airport to Ski Club to improve the road to a current urban collector road standard, as well as installation of new traffic signals at the intersection of O'Brien and Ski Club. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>		<p>The configuration of O'Brien from Airport to Ski Club does not meet current urban collector standards. The roadway and intersection at Ski Club has reached its capacity and requires upgrading to reduce congestion in the area. The Ski Club intersection is currently controlled by an all-way stop control - replacement of this control with traffic signals that are coordinated with the traffic signals at the Airport Road intersection will provide increased capacity. Upgrading the road to meet current urban collector standards, including the addition of curb and gutters and a proper drainage system will provide more traffic capacity and will improve the life expectancy of the pavement structure. The road was resurfaced in 2021 to provide a suitable driving surface in the interim.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3920RD/SS/WS and 4032RD/ST/SS/WS.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	19,600	19,600	0
2026	392,000	392,000	0
	<b>411,600</b>	<b>411,600</b>	<b>0</b>
<b>LTD Amount: 676</b>		<b>Total Project Cost: 412,276</b>	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2019	Jan 1, 2019	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2026

<b>Number:</b>	3920WS	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien Street - Ski Club to Airport & Ski Club Signals	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the complete reconstruction of the roadway on O'Brien from Airport to Ski Club to improve the road to a current urban collector road standard, as well as installation of new traffic signals at the intersection of O'Brien and Ski Club. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The configuration of O'Brien from Airport to Ski Club does not meet current urban collector standards. The roadway and intersection at Ski Club has reached its capacity and requires upgrading to reduce congestion in the area. The Ski Club intersection is currently controlled by an all-way stop control - replacement of this control with traffic signals that are coordinated with the traffic signals at the Airport Road intersection will provide increased capacity. Upgrading the road to meet current urban collector standards, including the addition of curb and gutters and a proper drainage system will provide more traffic capacity and will improve the life expectancy of the pavement structure. The road was resurfaced in 2021 to provide a suitable driving surface in the interim.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p> <p>Related projects include 3920RD/ST/SS and 4032RD/ST/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	392,000	392,000	0														
	<b>392,000</b>	<b>392,000</b>	<b>0</b>														
<b>LTD Amount: 20,000</b>		<b>Total Project Cost: 412,000</b>															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2019	75 Years	Adam Lacombe	Dec 31, 2026



<b>Number:</b>	3926GD	<b>Scenario:</b>	Main
<b>Title:</b>	Merrick Landfill Lifecycle Extension Environmental Assessment	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	WASTE DISPOSAL
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
This project provides for the environmental assessment and analysis to extend the lifecycle of the existing Merrick Landfill site.		The existing footprint for waste disposal at the Merrick Landfill site is expected to be full (approximately) by the year 2036. It typically takes 10 to 15 years in order to get approval for expansion on an existing landfill site. This project provides for the environmental assessment and analysis to extend the lifecycle of the existing Merrick Landfill site.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2027	490,000	490,000	0
2028	1,568,000	1,568,000	0
2029	5,782,000	5,782,000	0
	<b>7,840,000</b>	<b>7,840,000</b>	<b>0</b>
<b>LTD Amount:</b> 500,000		<b>Total Project Cost:</b> 8,340,000	

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2019	Jan 1, 2021	TBD	Karin Pratte	Dec 31, 2029

<b>Number:</b>	3932RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Jessups Creek to Premier Road	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain as well as replacement of the storm sewer system. Road and boulevard surface restoration will also be required for the areas disturbed during construction. Restoration will include the road base aggregates, asphalt, curb, gutters, grass boulevard and concrete sidewalks.</p> <p>Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance.</p>	<p>The existing sanitary sewer is undersized resulting in insufficient capacity to receive flows from the sanitary pumping station on Premier Road - this leads to backups and overflows in the system. The recent installation of a trunk sewer on Birchs Road helped alleviate the problem but did not fully address it.</p> <p>The watermain along this section of the roadway is 100mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>The storm sewer has reached the end of its useful life and requires replacement.</p> <p>The first phase of construction is expected to be done in 2024 and 2025.</p> <p>Related projects include 3932ST/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	784,000	784,000	0																		
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<b>LTD Amount:</b> 110,000		<b>Total Project Cost:</b> 1,678,000																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2020	25 Years	Gerry McCrank	Dec 31, 2026

<b>Number:</b>	3932SS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Jessups Creek to Premier Road	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain as well as replacement of the storm sewer system. Road and boulevard surface restoration will also be required for the areas disturbed during construction. Restoration will include the road base aggregates, asphalt, curb, gutters, grass boulevard and concrete sidewalks.</p> <p>Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance.</p>	<p>The existing sanitary sewer is undersized resulting in insufficient capacity to receive flows from the sanitary pumping station on Premier Road - this leads to backups and overflows in the system. The recent installation of a trunk sewer on Birchs Road helped alleviate the problem but did not fully address it.</p> <p>The watermain along this section of the roadway is 100mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>The storm sewer has reached the end of its useful life and requires replacement.</p> <p>The first phase of construction is expected to be done in 2024 and 2025.</p> <p>Related projects include 3932RD/ST/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	808,500	808,500	0																		
2025	808,500	808,500	0																		
	<b>1,617,000</b>	<b>1,617,000</b>	<b>0</b>																		
<b>LTD Amount:</b> 40,000		<b>Total Project Cost:</b> 1,657,000																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2026

<b>Number:</b>	3932ST	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Jessups Creek to Premier Road	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain as well as replacement of the storm sewer system. Road and boulevard surface restoration will also be required for the areas disturbed during construction. Restoration will include the road base aggregates, asphalt, curb, gutters, grass boulevard and concrete sidewalks.</p> <p>Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance.</p>	<p>The existing sanitary sewer is undersized resulting in insufficient capacity to receive flows from the sanitary pumping station on Premier Road - this leads to backups and overflows in the system. The recent installation of a trunk sewer on Birchs Road helped alleviate the problem but did not fully address it.</p> <p>The watermain along this section of the roadway is 100mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>The storm sewer has reached the end of its useful life and requires replacement.</p> <p>The first phase of construction is expected to be done in 2024 and 2025.</p> <p>Related projects include 3932RD/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	392,000	392,000	0																		
2025	392,000	392,000	0																		
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<b>LTD Amount:</b> 30,000		<b>Total Project Cost:</b> 814,000																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2026

<b>Number:</b>	3932WS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. - Jessups Creek to Premier Road	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain as well as replacement of the storm sewer system. Road and boulevard surface restoration will also be required for the areas disturbed during construction. Restoration will include the road base aggregates, asphalt, curb, gutters, grass boulevard and concrete sidewalks.</p> <p>Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance.</p>	<p>The existing sanitary sewer is undersized resulting in insufficient capacity to receive flows from the sanitary pumping station on Premier Road - this leads to backups and overflows in the system. The recent installation of a trunk sewer on Birchs Road helped alleviate the problem but did not fully address it.</p> <p>The watermain along this section of the roadway is 100mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>The storm sewer has reached the end of its useful life and requires replacement.</p> <p>The first phase of construction is expected to be done in 2024 and 2025.</p> <p>Related projects include 3932RD/ST/SS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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<b>LTD Amount:</b> 30,000		<b>Total Project Cost:</b> 1,451,000																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2026

<b>Number:</b>	3934RD	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. Rehabilitation	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the replacement of the interlocking brick pavement, retaining walls, and streetscaping on Main Street between Cassells Street and Sherbrooke Street.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The interlocking brick pavement was originally installed in 1983 on a 740 meter section of downtown Main Street and was based upon a twenty-year design life with an expected traffic volume of 8,000 vehicles per day including 5% delivery trucks and buses. The interlocking brick has performed very well and has exceeded its intended design life by over 50%.</p> <p>Significant deterioration on some portions is now evident and anticipated to get progressively worse in the near future. The Downtown Waterfront Master Plan provided a recommended concept for the streetscaping and materials.</p> <p>A contract for design services was awarded in 2021.</p> <p>Budget includes funding from the Northern Ontario Heritage Fund Corporation.</p> <p>Construction of the work is anticipated to take place over 2023 and 2024.</p> <p>Related projects include 3934ST.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																											
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>1,600,000</td> <td>1,600,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,600,000</b></td> <td><b>1,600,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 6,036,096</td> <td colspan="2"><b>Total Project Cost:</b> 7,636,096</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	1,600,000	1,600,000	0		<b>1,600,000</b>	<b>1,600,000</b>	<b>0</b>	<b>LTD Amount:</b> 6,036,096		<b>Total Project Cost:</b> 7,636,096		<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>1,600,000</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>1,600,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>59,549</td> </tr> <tr> <td>0515</td> <td>NOHFC</td> <td>690,451</td> </tr> <tr> <td>0539</td> <td>ONT COMMUNITY INFR OCIF</td> <td>850,000</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>1,600,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3425	CONSTRUCTION CONTRACT	1,600,000	<b>Total Expense:</b>		<b>1,600,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	59,549	0515	NOHFC	690,451	0539	ONT COMMUNITY INFR OCIF	850,000	<b>Total Revenue:</b>		<b>1,600,000</b>
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2023	1,600,000	1,600,000	0																																									
	<b>1,600,000</b>	<b>1,600,000</b>	<b>0</b>																																									
<b>LTD Amount:</b> 6,036,096		<b>Total Project Cost:</b> 7,636,096																																										
GL Account	Description	Total Amount																																										
<b>Expense</b>																																												
3425	CONSTRUCTION CONTRACT	1,600,000																																										
<b>Total Expense:</b>		<b>1,600,000</b>																																										
<b>Revenue</b>																																												
0461	TSF FRM REV FUND-PAYGO	59,549																																										
0515	NOHFC	690,451																																										
0539	ONT COMMUNITY INFR OCIF	850,000																																										
<b>Total Revenue:</b>		<b>1,600,000</b>																																										

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2013	Jan 1, 2020	25 Years	Gerry McCrank	Dec 31, 2024

<b>Number:</b>	3938PR	<b>Scenario:</b>	Main
<b>Title:</b>	Olmsted Beach - Boat Launch Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the design and construction to replace the Olmsted boat launch.	<p>The boat launch at Olmsted Beach (Armstrong Park) has reached the end of its expected service life. Repairs undertaken to date have been temporary in nature. The boat launch provides an important public access to Trout Lake for boaters.</p> <p>Not undertaking the redevelopment will result in the eventual closing of the access due to public safety concerns.</p> <p>The boat launch is located on Ministry of Natural Resources (MNR) property. The City has a long-standing agreement with the MNR to use this property. This property is included in the Algonquin Land Claim with the province.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2026</td> <td>49,000</td> <td>49,000</td> <td>0</td> </tr> <tr> <td>2028</td> <td>539,000</td> <td>539,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>588,000</b></td> <td><b>588,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 588,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2026	49,000	49,000	0	2028	539,000	539,000	0		<b>588,000</b>	<b>588,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 588,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2026	49,000	49,000	0																		
2028	539,000	539,000	0																		
	<b>588,000</b>	<b>588,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 588,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2026	25 Years	Dave Schroeder	Dec 31, 2028

<b>Number:</b>	3942RF	<b>Scenario:</b>	Main
<b>Title:</b>	Omischl Sports Complex - Synthetic Turf Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	RECREATION FACILITY
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of the two synthetic turf fields (soccer and football) at the Omischl Sports Complex when they have reached the end of their respective life cycle.	The synthetic turf (carpet and infill only) has an industry life cycle of 10 to 20 years. Each year, the condition of these fields will be reviewed and the replacement dates adjusted accordingly.  Field C at Omischl Sports Complex has experienced some depressions and sink holes. A third party engineering firm is exploring repair and replacement options of the field and the synthetic turf. Following this review, and with the 2023 budget, the options will be reviewed to determine the best course of action to repair the field and replace the synthetic turf.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																									
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>588,000</td> <td>588,000</td> <td>0</td> </tr> <tr> <td>2027</td> <td>588,000</td> <td>588,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,176,000</b></td> <td><b>1,176,000</b></td> <td><b>0</b></td> </tr> <tr> <td><b>LTD Amount:</b> 0</td> <td colspan="3"><b>Total Project Cost:</b> 1,176,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	588,000	588,000	0	2027	588,000	588,000	0		<b>1,176,000</b>	<b>1,176,000</b>	<b>0</b>	<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,176,000			<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>588,000</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>588,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>588,000</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>588,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3425	CONSTRUCTION CONTRACT	588,000	<b>Total Expense:</b>		<b>588,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	588,000	<b>Total Revenue:</b>		<b>588,000</b>
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2019	Jan 1, 2023	10 to 20 Years	Dave Schroeder	Dec 31, 2027



<b>Number:</b>	4003WS	<b>Scenario:</b>	Main
<b>Title:</b>	Membrane Module Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project is to replace the membrane module at the Water Treatment Plant.	The estimated useful life of the existing membrane module is currently 15-20 years. The existing membrane has been in place for 12 years and are expected to require replacement in the next 3 years.  The replacement of the membrane module is scheduled to take place in the year 2025 and 2027.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2025	1,342,600	1,342,600	0																		
2027	1,832,600	1,832,600	0																		
	<b>3,175,200</b>	<b>3,175,200</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,175,200</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2025	15 Years	Karin Pratte	Dec 31, 2027

<b>Number:</b>	4005RD	<b>Scenario:</b>	Main
<b>Title:</b>	Pinewood Park Drive Continuous Left Turn Lane (Lakeshore Drive to Decaire Road)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services to add a continuous left turn lane from Lakeshore Drive to Decaire Road. The project has been included in the preparation of a Municipal Class Environmental Assessment for the Lakeshore Drive and Pinewood Park corridors under Project 3715RD - Pinewood Park &amp; Lakeshore Drive Intersection Reconstruction. Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p> <p>Road works include the road base aggregates, asphalt, and grass boulevard. Potential implementation of curb, gutter, and sidewalk will be examined during the environmental assessment.</p>	<p>As the Pinewood Park corridor continues to develop, increased traffic will necessitate additional lanes. It is anticipated that a continuous centre left turn lane will be required, but different configurations will also be examined during the environmental assessment, such as widening to four or five lanes.</p> <p>Project budget in 2024 is for the preliminary and detailed design.</p> <p>Related projects include 3715RD.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2023																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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2027	2,058,000	2,058,000	0																		
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<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 2,146,200																				

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2024	25 Years	Adam Lacombe	Dec 31, 2027

<b>Number:</b>	4007RD	<b>Scenario:</b>	Main
<b>Title:</b>	Road Safety Strategy/Master Plan	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Master Plans
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the development of a Road Safety Strategy/ Master Plan.	The North Bay Traffic Safety Committee contains members from many community organizations, including the North Bay City Police, Ontario Provincial Police, North Bay-Parry Sound District Health Unit, Ministry of Transportation, and City of North Bay. The goal of the committee is to improve road safety. In September 2018, the committee made a presentation for a Vision Zero Road Safety Strategy. Through a resolution, City Council endorsed the framework of the North Bay Vision Zero and the North Bay Vision Zero Committee. This study would further the committee goal and the endorsement by Council.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																					
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jun 1, 2020	N/A	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	4013FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Station 1 - Roof Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	FIRE DEPARTMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of the flat roof section of Fire Station 1.	Fire Station 1 flat roof has been identified to be reaching the end of its useful life and is anticipated to require replacement in 2023.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																					
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2023	20 Years	Jason Whiteley	Dec 31, 2023

<b>Number:</b>	4016TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit Terminal Rehabilitation	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	TRANSIT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for the rehabilitation of the transit terminal for passenger safety and to promote public transit.	This program provides for rehabilitation of the transit terminal in order to ensure passenger safety and promote public transit. This includes the repair or replacement of existing walkway surface, creation of green space, restoration of shelters and upgraded lighting and development of pedestrian friendly environment to ensure security, safety, and accessibility for pedestrians walking to and from and waiting at the transit terminal.  Budget includes funding through the Investing in Canada Infrastructure Program.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																														
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0461	TSF FRM REV FUND-PAYGO	4,378																																													
0512	PROVINCIAL GAS TAX	10,000																																													
0543	INVESTING IN CANADA (ICIP) - PROVINCIAL	28,747																																													
0643	INVESTING IN CANADA (ICIP) - FEDERAL	43,125																																													
<b>Total Revenue:</b>		<b>86,250</b>																																													

<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	TBD	Drew Poeta	Dec 31, 2023

<b>Number:</b>	4018TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit Fleet Garage and Bus Barn Upgrades: Health and Safety	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	TRANSIT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for upgrades to the Fleet Garage and Bus Barn, which will also resolve some health and safety concerns.	<p>This project will resolve some current health and safety concerns and provide other upgrades within the Fleet Garage and Bus Barn. This is planned to be done through the installation of a permanent engineered fall arrest system for working at heights, vehicle lifting device (one set), and approximately 16 security cameras.</p> <p>This project will also include the purchase of specialized tools, network and work stations, diagnostic laptops and software, and computerized systems for monitoring bulk fluids and scanning system for transit inventory.</p> <p>Budget includes funding through the Investing in Canada Infrastructure Program.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																															
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>10,000</td> <td>10,000</td> <td>0</td> </tr> <tr> <td>2024</td> <td>63,000</td> <td>63,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>73,000</b></td> <td><b>73,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 308,512</td> <td colspan="2"><b>Total Project Cost:</b> 381,512</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	10,000	10,000	0	2024	63,000	63,000	0		<b>73,000</b>	<b>73,000</b>	<b>0</b>	<b>LTD Amount:</b> 308,512		<b>Total Project Cost:</b> 381,512		<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>10,000</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>10,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>2,667</td> </tr> <tr> <td>0543</td> <td>INVESTING IN CANADA (ICIP) - PROVINCIAL</td> <td>3,333</td> </tr> <tr> <td>0643</td> <td>INVESTING IN CANADA (ICIP) - FEDERAL</td> <td>4,000</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>10,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3425	CONSTRUCTION CONTRACT	10,000	<b>Total Expense:</b>		<b>10,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	2,667	0543	INVESTING IN CANADA (ICIP) - PROVINCIAL	3,333	0643	INVESTING IN CANADA (ICIP) - FEDERAL	4,000	<b>Total Revenue:</b>		<b>10,000</b>
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2021	TBD	Drew Poeta	Dec 31, 2025

<b>Number:</b>	4020TR	<b>Scenario:</b>	Main
<b>Title:</b>	New Bus Shelters and Digital Signage	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	TRANSIT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for the rehabilitation of existing shelters, purchase of new shelters, and the addition of digital signage.	This project will provide for the rehabilitation of 8 existing shelters, the purchase and installation of 12 solar powered shelters and pads and add approximately 20 digital signage at transfer locations and other stops that experience high passenger frequency.  Budget includes funding through the Investing in Canada Infrastructure Program.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2021	TBD	Drew Poeta	Dec 31, 2024

<b>Number:</b>	4021TR	<b>Scenario:</b>	Main
<b>Title:</b>	Construction of Sidewalks for Transit Routes	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	TRANSIT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for the construction of new sidewalks to transit stops.	<p>This project will construct new sidewalks to comply with the Municipal Right-of-Way for direct routing of pedestrians to transit stops (approximately 4.2km). This includes connecting existing sidewalks to permit a continuous pedestrian path to established transit stops.</p> <p>Budget includes funding through the Investing in Canada Infrastructure Program.</p> <p>The following sidewalks will be completed:</p> <p>2022 - Airport Rd (Kinsman Trail (Davedi Club) to Algonquin Ave) and Lakeside Dr (Trout Lake Rd to Camelot Dr)</p> <p>2023/ 2024 - Norman (Rancier St to Dellandrea Dr), Georgian Rd (Gertrude St E to Prince Edward Dr), and Prince Edward Dr (Georgian Rd to Marshall Ave E)</p> <p>2025/ 2026 - Commerce (Seymour to Wallace) and Wallace Rd (Commerce Cres to Lake Heights Rd)</p> <p>Related projects include 4330TR.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2020	Jan 1, 2020	30 Years	Drew Poeta	Dec 31, 2026



<b>Number:</b>	4030SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sanitary Sewer Relining	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project will involve the installation of a structural liner that will reinforce the existing sanitary sewers.	<p>This project will involve an assessment of sanitary sewers in the City that have a history of breaks and the installation of a lining to mitigate ground water infiltration into the sanitary sewer system.</p> <p>The assessments will be completed by a third party over the course of a summer/ fall season. The purpose will be to identify areas of sanitary sewer that have inflow and infiltration issues and minor deficiencies that relining can address. Relining is installed in sections from 1 manhole to another and takes approximately 1 to 2 days per city block. The 2023 budget will fund the initial reassessments with relining to start in 2024.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																					
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2029

<b>Number:</b>	4031WS	<b>Scenario:</b>	Main
<b>Title:</b>	Public Works Building Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is to address rehabilitation costs to the public works buildings at the Franklin site in order to meet operational needs.	In 2024, a condition assessment will be completed for all public works buildings at the Franklin site.  Based on the condition assessments performed, addressing immediate requirements, planning, engineering, and potential architectural design would be initiated in 2026.  Through this planning process, it is anticipated that significant upgrades or re-configuration to current facilities or an addition of facilities will be completed in 2029 in order to meet operational needs.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 1, 2024	TBD	Domenic Schiavone	Dec 31, 2029

<b>Number:</b>	4032RD	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien St. Reconstruction - Cassells to Ski Club	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for reconstruction of above ground and underground infrastructure and to upgrade O'Brien Street to a proper collector standard from Cassells Street to Ski Club Road.</p> <p>Engineering services will include an environmental assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk. Underground works will include the installation of storm sewers and repair/ rehabilitation/ replacement of sanitary sewers and watermains.</p>	<p>O'Brien Street was originally constructed as a semi-urban collector (i.e., ditches were constructed for drainage). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>O'Brien Street is a primary collector route between Cassells Street and Airport Road. Over the years some ditches have filled in, resulting in poor surface drainage and improper road base drainage. Drainage improvement will result in a pavement structure with a longer life.</p> <p>The work will be constructed in several phases. Related projects include 4032ST/SS/WS and 3920RD/ST/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																								
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Budget Year	Total Expense	Total Revenue	Difference																						
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2029	2,254,000	2,254,000	0																						
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	<b>4,909,800</b>	<b>4,909,800</b>	<b>0</b>																						
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 4,909,800																								

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4032SS	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien St. Reconstruction - Cassells to Ski Club	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for reconstruction of above ground and underground infrastructure and to upgrade O'Brien Street to a proper collector standard from Cassells Street to Ski Club Road.</p> <p>Engineering services will include an environmental assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk. Underground works will include the installation of storm sewers and repair/ rehabilitation/ replacement of sanitary sewers and watermains.</p>	<p>O'Brien Street was originally constructed as a semi-urban collector (i.e., ditches were constructed for drainage). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>O'Brien Street is a primary collector route between Cassells Street and Airport Road. Over the years some ditches have filled in, resulting in poor surface drainage and improper road base drainage. Drainage improvement will result in a pavement structure with a longer life.</p> <p>The work will be constructed in several phases. Related projects include 4032RD/ST/WS and 3920RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2023																								
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Budget Year	Total Expense	Total Revenue	Difference																						
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4032ST	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien St. Reconstruction - Cassells to Ski Club	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for reconstruction of above ground and underground infrastructure and to upgrade O'Brien Street to a proper collector standard from Cassells Street to Ski Club Road.</p> <p>Engineering services will include an environmental assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk. Underground works will include the installation of storm sewers and repair/ rehabilitation/ replacement of sanitary sewers and watermains.</p>	<p>O'Brien Street was originally constructed as a semi-urban collector (i.e., ditches were constructed for drainage). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>O'Brien Street is a primary collector route between Cassells Street and Airport Road. Over the years some ditches have filled in, resulting in poor surface drainage and improper road base drainage. Drainage improvement will result in a pavement structure with a longer life.</p> <p>The work will be constructed in several phases. Related projects include 4032RD/SS/WS and 3920RD/ST/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																								
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Budget Year	Total Expense	Total Revenue	Difference																						
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2029	980,000	980,000	0																						
2032	980,000	980,000	0																						
	<b>2,107,000</b>	<b>2,107,000</b>	<b>0</b>																						
<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,107,000</b>																							

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4032WS	<b>Scenario:</b>	Main
<b>Title:</b>	O'Brien St. Reconstruction - Cassells to Ski Club	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for reconstruction of above ground and underground infrastructure and to upgrade O'Brien Street to a proper collector standard from Cassells Street to Ski Club Road.</p> <p>Engineering services will include an environmental assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance. Road works include the road base aggregates, asphalt, curb, gutter, grass boulevard and concrete sidewalk. Underground works will include the installation of storm sewers and repair/ rehabilitation/ replacement of sanitary sewers and watermains.</p>	<p>O'Brien Street was originally constructed as a semi-urban collector (i.e., ditches were constructed for drainage). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>O'Brien Street is a primary collector route between Cassells Street and Airport Road. Over the years some ditches have filled in, resulting in poor surface drainage and improper road base drainage. Drainage improvement will result in a pavement structure with a longer life.</p> <p>The work will be constructed in several phases. Related projects include 4032RD/ST/SS and 3920RD/ST/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																								
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Budget Year	Total Expense	Total Revenue	Difference																						
2026	156,800	156,800	0																						
2029	784,000	784,000	0																						
2032	784,000	784,000	0																						
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<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,724,800																								

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4034RD	<b>Scenario:</b>	Main
<b>Title:</b>	Road Condition Inspection	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering services for the condition inspection of the City's roadway network. Condition inspections were previously undertaken on a four-year cycle (2007, 2011, 2015 and 2021).</p>		<p>The information gathered from the road condition inspections is used in the City's Pavement Management System software to model and analyze the needs and most cost-effective treatments to maintain, rehabilitate, or replace the pavement structure of the City's road network. In accordance with the City's Asset Management Plan, the condition of the City's road network will be monitored and analyzed on an on-going basis to determine and confirm prioritization with respect to the condition assessment and needs of the overall road and infrastructure network.</p> <p>In order to ensure the most cost-effective resurfacing program, regular updates of the road network condition data are required to ensure accurate and defensible needs assessments and work prioritization.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	245,000	245,000	0
2029	245,000	245,000	0
	<b>490,000</b>	<b>490,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 490,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2015	Jan 1, 2025	N/A	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2029

<b>Number:</b>	4037SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sage Area Trunk Sewer Improvements	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services for upsizing a portion of the Sage trunk sanitary sewer system. Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction technical assistance.	<p>The undersized section runs from the intersection of K&amp;K Drive and Wallace, through an easement on the old Arclin Canada property, under the ONR train tracks and through an easement between two residential properties on Perut Place.</p> <p>Given the constraints of working in easements on private properties, including very close proximity to two residential houses, different alternatives will be generated to solve the capacity issues. The alternatives could include a new sewer on a new alignment or the use of trenchless technologies to upsize the existing pipe.</p> <p>The 2008 Infrastructure Background Study that was prepared in support of the Official Plan update identified that this section of the Sage Road trunk is currently undersized and during peak flows the pipe capacity will be exceeded. Any additional development served by the Sage trunk will only make the capacity issues worse. The engineering study will look at different alternatives to address the capacity issues.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	490,000	490,000	0																		
2026	2,940,000	2,940,000	0																		
	<b>3,430,000</b>	<b>3,430,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,430,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2008	Jan 1, 2024	75 Years	Adam Lacombe	Dec 31, 2027



<b>Number:</b>	4101GG	<b>Scenario:</b>	Main
<b>Title:</b>	City Hall Accessibility Upgrades	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	GENERAL GOVERNMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
To meet standards under the Accessibility for Ontarians with Disabilities 2005, it's anticipated that the City will need to undertake significant renovations to City Hall and other municipal buildings under the (yet to be released) Built Environment Standard. The purpose of the Act is to improve opportunities for people with disabilities by removing barriers. The standards under the Act are being implemented in phases and will lead to full accessibility in Ontario by 2025.		Condition assessments on City buildings will be initiated once standards are released to identify priority projects.  Anticipated that there will be funding opportunities related to this standard which will be pursued as they present themselves.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	980,000	980,000	0
	<b>980,000</b>	<b>980,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 980,000		

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2011	Jan 1, 2024	15 Years	David Jackowski	Dec 31, 2024

<b>Number:</b>	4102WS	<b>Scenario:</b>	Main
<b>Title:</b>	Ellendale Pumping Station Second Feed to Airport	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for a new trunk watermain that will provide a duplicate feed from the Ellendale booster pumping station to the Airport Hill distribution system.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The Ellendale site is comprised of two facilities. The reservoir provides a water storage facility for water supplied directly from the Water Treatment Plant. Water from the reservoir supplies Zone 1 as well as the Ellendale booster pumping station (BPS). The BPS provides water to the Airport Hill area. Both the feed to the reservoir, as well as the discharge pipe from the BPS is a single feed. There is a risk that a single point failure on either of these feeds would lead to disruptions in the water distribution system.</p> <p>This project will look at different alignments to provide a second feed to the Airport Hill area, including Ellendale Drive to Airport Road.</p> <p>Projects 3931RD/WS - Ellendale Second Feed addresses the single feed to the Ellendale Reservoir.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																								
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Budget Year	Total Expense	Total Revenue	Difference																						
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2027	1,470,000	1,470,000	0																						
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<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 2,646,000																								

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4103SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant Expansion	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project provides for the engineering and construction of the expansion and upgrades to the Wastewater Treatment Plant in order to handle the increasing wastewater volume.		This project provides funds for the purchase of additional lands along with the design and engineering to increase the capacity of the treatment process at the Wastewater Treatment Plant in order to handle increasing wastewater volumes as well as to improve treatment efficiency, specifically with denitrification.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
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<b>Forecast</b>		<b>Project Detailed 2023</b>																																																												
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<b>Related Projects</b>		<b>Operating Impacts</b>		
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2016	Jan 1, 2022	TBD	Karin Pratte	Dec 31, 2029

<b>Number:</b>	4106RD	<b>Scenario:</b>	Main
<b>Title:</b>	Queen St. Culvert Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project involves the engineering and construction services to replace the Queen St. culvert.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The existing Queen St. culvert is at the end of its useful life and needs to be replaced.</p> <p>The existing culvert is made of corrugated steel and will be replaced with a plastic or concrete culvert.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2026	75 years	Reid Porter	Dec 31, 2026

<b>Number:</b>	4107RD	<b>Scenario:</b>	Main
<b>Title:</b>	Tower Dr. Hump Removal	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction to reduce the vertical crest on Tower Drive to the east of the intersection with Welkin Grove.  Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.	The road profile on Tower Drive to the east of Welkin Grove requires improved sightlines and will be lowered in accordance with current design standards.  2023 budget will be for the construction of the work.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2023	25 Years	Reid Porter	Dec 31, 2023

<b>Number:</b>	4109RD	<b>Scenario:</b>	Main
<b>Title:</b>	Trout Lake Rd. & Laurentian Ave. Intersection Reconstruction	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction to align the two Laurentian Ave. side street approaches that intersect with Trout Lake Road.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>Trout Lake Road is an arterial road with Laurentian Ave. as a side street. The two Laurentian Ave. approaches are offset from each other by approximately 30 metres, creating a non-standard intersection and traffic signal configuration. Alignment of the side street approaches will improve driver expectation, safety, traffic signal operations. Land acquisition of an existing property on the north side of Trout Lake Road will be required.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2031	196,078	196,078	0																		
2032	3,431,400	3,431,400	0																		
	<b>3,627,478</b>	<b>3,627,478</b>	<b>0</b>																		
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 3,627,478																				

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2031	25 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4115PK	<b>Scenario:</b>	Main
<b>Title:</b>	Innovation Hub	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	PARKING
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the engineering design to support the Innovation Hub on Wyld Street. It will include the design of the new road, water, sewer, storm water management and the existing parking lot.	The Innovation Hub concept is supported through the Downtown Waterfront Master Plan. Related projects include 4115RD/ST/SS/WS and 4122PR.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2024	980,000	980,000	0														
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<b>LTD Amount:</b> 110,000		<b>Total Project Cost:</b> 1,090,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Adam Lacombe	Dec 31, 2024

<b>Number:</b>	4115RD	<b>Scenario:</b>	Main
<b>Title:</b>	Innovation Hub	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
This project provides for the engineering design to support the Innovation Hub on Wyld Street. It will include the design of the new road, water, sewer, storm water management and the existing parking lot.		The Innovation Hub concept is supported through the Downtown Waterfront Master Plan. Related projects include 4115PK/ST/SS/WS and 4122PR.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	686,000	686,000	0
	<b>686,000</b>	<b>686,000</b>	<b>0</b>
<b>LTD Amount:</b> 40,000		<b>Total Project Cost:</b> 726,000	

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2021	Jan 1, 2021	TBD	Adam Lacombe	Dec 31, 2024



<b>Number:</b>	4115SS	<b>Scenario:</b>	Main
<b>Title:</b>	Innovation Hub	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
This project provides for the engineering design to support the Innovation Hub on Wyld Street. It will include the design of the new road, water, sewer, storm water management and the existing parking lot.		The Innovation Hub concept is supported through the Downtown Waterfront Master Plan. Related projects include 4115PK/RD/ST/WS and 4122PR.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	98,000	98,000	0
	<b>98,000</b>	<b>98,000</b>	<b>0</b>
<b>LTD Amount:</b> 10,000		<b>Total Project Cost:</b> 108,000	

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2021	Jan 1, 2021	TBD	Adam Lacombe	Dec 31, 2024

<b>Number:</b>	4115ST	<b>Scenario:</b>	Main
<b>Title:</b>	Innovation Hub	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the engineering design to support the Innovation Hub on Wyld Street. It will include the design of the new road, water, sewer, storm water management and the existing parking lot.	The Innovation Hub concept is supported through the Downtown Waterfront Master Plan. Related projects include 4115PK/RD/SS/WS and 4122PR.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2024	392,000	392,000	0														
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Adam Lacombe	Dec 31, 2024

<b>Number:</b>	4115WS	<b>Scenario:</b>	Main
<b>Title:</b>	Innovation Hub	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the engineering design to support the Innovation Hub on Wyld Street. It will include the design of the new road, water, sewer, storm water management and the existing parking lot.	The Innovation Hub concept is supported through the Downtown Waterfront Master Plan. Related projects include 4115PK/RD/ST/SS and 4122PR.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2024	392,000	392,000	0														
	<b>392,000</b>	<b>392,000</b>	<b>0</b>														
<b>LTD Amount:</b> 20,000		<b>Total Project Cost:</b> 412,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	TBD	Adam Lacombe	Dec 31, 2024

<b>Number:</b>	4118SS	<b>Scenario:</b>	Main
<b>Title:</b>	King's Landing Pumping Station Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project provides for the engineering and construction services to replace the King's Landing pumping station.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The existing sanitary pumping station is located at the corner of Memorial Drive and the King's Landing access road. The pumping station is nearing the end of its useful life and requires replacement.</p> <p>The replacement of the King's Landing pumping station would service existing facilities draining to the pumping station and have capacity to service future development, including development at the former Kenroc site.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2024</td> <td>1,470,000</td> <td>1,470,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,470,000</b></td> <td><b>1,470,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 75,000</td> <td colspan="2"><b>Total Project Cost:</b> 1,545,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	1,470,000	1,470,000	0		<b>1,470,000</b>	<b>1,470,000</b>	<b>0</b>	<b>LTD Amount:</b> 75,000		<b>Total Project Cost:</b> 1,545,000		
Budget Year	Total Expense	Total Revenue	Difference														
2024	1,470,000	1,470,000	0														
	<b>1,470,000</b>	<b>1,470,000</b>	<b>0</b>														
<b>LTD Amount:</b> 75,000		<b>Total Project Cost:</b> 1,545,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2021	50 Years	Adam Lacombe	Dec 31, 2024

<b>Number:</b>	4119RF	<b>Scenario:</b>	Main
<b>Title:</b>	Arenas - Memorial Gardens East and West Concourse Roof Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	RECREATION FACILITY
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of the roof over the west concourse and the east concourse/ change rooms at Memorial Gardens.	The roof identified in this project will be reaching the end of its expected service life in 2029. In 2028, a detailed assessment will be conducted to confirm the proper scope of work followed by a detailed design for the replacement. In 2029, construction work will be tendered and completed.  The scope includes full replacement of the, approximately, 20,000sqft roof system less decking (membrane, insulation, coverboard and removal of existing).

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2028	25,000	25,000	0																		
2029	500,000	500,000	0																		
	<b>525,000</b>	<b>525,000</b>	<b>0</b>																		
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 525,000																				

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2028	20 Years	David Jackowski	Dec 31, 2029

<b>Number:</b>	4121RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lamorie St. Bridge Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project consists of rehabilitation to the Lamorie St. bridge to extend its useful life.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The Lamorie St. bridge is one of the City's largest bridge structures. A condition assessment was undertaken in 2019/2020 and provided rehabilitation recommendations for the near-term and future.</p> <p>2023 budget is for the construction of the work.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2021	Jan 1, 2021	15 Years	Reid Porter	Dec 31, 2023

<b>Number:</b>	4122PR	<b>Scenario:</b>	Main
<b>Title:</b>	Recreational Feasibility	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development, Master Plans
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for studies to determine the feasibility of relocating the volleyball courts and/or the sport field construction at Omischl Park.	Engineering review to determine feasibility of topography and soil conditions for development of volleyball courts and/or sport field construction. The relocation of the volleyball courts will facilitate the development of the Innovation Hub as envisioned in the Downtown Waterfront Master Plan.  This work is anticipated to begin in 2024 and aligns with the vision in the Downtown Waterfront Master Plan.  Related projects include 4115PK/RD/ST/SS/WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2024	98,000	98,000	0														
	<b>98,000</b>	<b>98,000</b>	<b>0</b>														
<b>LTD Amount: 0</b>		<b>Total Project Cost: 98,000</b>															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2024	N/A	Beverley Hillier	Dec 31, 2024

<b>Number:</b>	4124RD	<b>Scenario:</b>	Main
<b>Title:</b>	Francis St. Sewer Upsizing (Surrey to Greenhill)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.</p> <p>Engineering services will include flow monitoring, condition inspection, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>Due to future development of Airport Hill and the Aerospace Business Park, it has been identified that the existing sanitary sewer on Francis Street from Surrey Drive to Greenhill Avenue and on Greenhill Avenue from Francis Street to Tower Drive is undersized. Upsizing of the sanitary sewer is therefore required. Storm sewers, curbs and gutters will be contemplated in the future to bring this roadway up to an urban residential standard. The watermain condition will also be evaluated to determine if it needs to be replaced.</p> <p>Related projects include 4124ST/SS/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	107,800	107,800	0																		
2029	2,058,000	2,058,000	0																		
	<b>2,165,800</b>	<b>2,165,800</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,165,800</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2030



<b>Number:</b>	4124SS	<b>Scenario:</b>	Main
<b>Title:</b>	Francis St. Sewer Upsizing (Surrey to Greenhill)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.</p> <p>Engineering services will include flow monitoring, condition inspection, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>Due to future development of Airport Hill and the Aerospace Business Park, it has been identified that the existing sanitary sewer on Francis Street from Surrey Drive to Greenhill Avenue and on Greenhill Avenue from Francis Street to Tower Drive is undersized. Upsizing of the sanitary sewer is therefore required. Storm sewers, curbs and gutters will be contemplated in the future to bring this roadway up to an urban residential standard. The watermain condition will also be evaluated to determine if it needs to be replaced.</p> <p>Related projects include 4124RD/ST/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	78,400	78,400	0														
2029	1,470,000	1,470,000	0														
	<b>1,548,400</b>	<b>1,548,400</b>	<b>0</b>														

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2030

<b>Number:</b>	4124ST	<b>Scenario:</b>	Main
<b>Title:</b>	Francis St. Sewer Upsizing (Surrey to Greenhill)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.</p> <p>Engineering services will include flow monitoring, condition inspection, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>		<p>Due to future development of Airport Hill and the Aerospace Business Park, it has been identified that the existing sanitary sewer on Francis Street from Surrey Drive to Greenhill Avenue and on Greenhill Avenue from Francis Street to Tower Drive is undersized. Upsizing of the sanitary sewer is therefore required. Storm sewers, curbs and gutters will be contemplated in the future to bring this roadway up to an urban residential standard. The watermain condition will also be evaluated to determine if it needs to be replaced.</p> <p>Related projects include 4124RD/SS/WS.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2026	68,600	68,600	0
2029	1,274,000	1,274,000	0
	<b>1,342,600</b>	<b>1,342,600</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,342,600	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2012	Jan 1, 2026	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2030

<b>Number:</b>	4124WS	<b>Scenario:</b>	Main
<b>Title:</b>	Francis St. Sewer Upsizing (Surrey to Greenhill)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project consists of upsizing the existing sanitary sewer on Francis Street and restoration of the roadway.</p> <p>Engineering services will include flow monitoring, condition inspection, preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>Due to future development of Airport Hill and the Aerospace Business Park, it has been identified that the existing sanitary sewer on Francis Street from Surrey Drive to Greenhill Avenue and on Greenhill Avenue from Francis Street to Tower Drive is undersized. Upsizing of the sanitary sewer is therefore required. Storm sewers, curbs and gutters will be contemplated in the future to bring this roadway up to an urban residential standard. The watermain condition will also be evaluated to determine if it needs to be replaced.</p> <p>Related projects include 4124RD/ST/SS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	78,400	78,400	0														
2029	1,372,000	1,372,000	0														
	<b>1,450,400</b>	<b>1,450,400</b>	<b>0</b>														

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2030

<b>Number:</b>	4125RD	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100mm distribution watermain, adding a new 400mm transmission watermain, and adding a new 500mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An environmental assessment will also be conducted to look at road upgrades.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over two phases - Phase 1 will include Judge Avenue to Gertrude Street, and Phase 2 will include Gertrude Street to Marshall Avenue. Additionally, watermain upsizing from Marshall to Birchs is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include 4125ST/SS/WS, Phase 2 - 3802RD/ST/SS/WS</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2023																								
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Budget Year	Total Expense	Total Revenue	Difference																						
2025	607,600	607,600	0																						
2027	3,332,000	3,332,000	0																						
2028	3,332,000	3,332,000	0																						
	<b>7,271,600</b>	<b>7,271,600</b>	<b>0</b>																						
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 7,271,600																								

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	25 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4125SS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100mm distribution watermain, adding a new 400mm transmission watermain, and adding a new 500mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An environmental assessment will also be conducted to look at road upgrades.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over two phases - Phase 1 will include Judge Avenue to Gertrude Street, and Phase 2 will include Gertrude Street to Marshall Avenue. Additionally, watermain upsizing from Marshall to Birchs is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include 4125RD/ST/WS, Phase 2 - 3802RD/ST/SS/WS</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4125ST	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100mm distribution watermain, adding a new 400mm transmission watermain, and adding a new 500mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An environmental assessment will also be conducted to look at road upgrades.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over two phases - Phase 1 will include Judge Avenue to Gertrude Street, and Phase 2 will include Gertrude Street to Marshall Avenue. Additionally, watermain upsizing from Marshall to Birchs is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include 4125RD/SS/WS, Phase 2 - 3802RD/ST/SS/WS</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4125WS	<b>Scenario:</b>	Main
<b>Title:</b>	Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing 100mm distribution watermain, adding a new 400mm transmission watermain, and adding a new 500mm forcemain to twin the existing Marshall sanitary pumping station forcemain. An environmental assessment will also be conducted to look at road upgrades.</p>	<p>Watermain service along the entire Lakeshore Drive corridor is severely undersized and a new trunk watermain is required to provide adequate water supply. This work was first identified in 1977 and was targeted for construction at the time of reconstruction needs of the road surface to maximize the value of the road asset.</p> <p>In 2003, efforts for the watermain construction commenced; however, the project was postponed due to funding constraints. Since then, the road surface has been rehabilitated through the resurfacing program to extend the life of the existing pavement.</p> <p>The need was more recently confirmed again in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a trunk watermain from Judge Avenue to Sunset Boulevard will be carried out over two phases - Phase 1 will include Judge Avenue to Gertrude Street, and Phase 2 will include Gertrude Street to Marshall Avenue. Additionally, watermain upsizing from Marshall to Birchs is currently being constructed in stages by the Public Works Department.</p> <p>The Marshall sanitary pumping station currently has no outlet in proximity to the station to relieve flow in the event of an emergency at the pumping station or a downstream break on the forcemain. During these emergency situations, sewage flows may back up into upstream buildings. A new forcemain to twin the existing forcemain will provide redundancy in the system to mitigate the risks of these emergency situations.</p> <p>Related projects include 4125RD/ST/SS, Phase 2 - 3802RD/ST/SS/WS</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2025	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4201PK	<b>Scenario:</b>	Main
<b>Title:</b>	Downtown Parking Facilities	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	PARKING
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is to provide funds for the construction of a parking structure to meet the needs for parking spaces in the downtown.	The downtown development potential is limited if steps are not taken to provide additional parking spaces. Project specifics on location and type of facility have not been developed. The budget assumes 100 parking spaces in the new structure. This project is related to 3405PK as potential locations may be acquired for construction.  Detailed needs would be supported by the parking strategy study that would include occupancy and inventory levels.  Related projects include 3405PK.

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2015	Jan 1, 2028	TBD	Bruce Robertson	Dec 31, 2029



<b>Number:</b>	4203GD	<b>Scenario:</b>	Main
<b>Title:</b>	Leachate Management - Future Cells	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Environmental,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	WASTE DISPOSAL
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for the design and construction of landfill cells for the effective leachate management as required by the Merrick Landfill Certificate of Approval. It includes the capping and closing of the preceding landfill cells and lining of future landfill cells as well as the construction and expansion of a leachate collection, pumping and infiltration and control systems.	The project is necessary to manage untreated leachate quantities in compliance with the Landfill's Certificate of Approval and prior to leachate treatment. Cell closing and expansion occurs approximately every 4-5 years.  Project is partially funded by the Merrick Landfill Reserve (99515R).  Related projects include 3830GD.

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2013	Jan 1, 2023	25 Years	Karin Pratte	Dec 31, 2031

<b>Number:</b>	4204SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Roof Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides funds for the rehabilitation and replacement of the rooves of 11 buildings at the Wastewater Treatment Plant.	<p>This project includes the repairs and replacements of the rooves at the Wastewater Treatment Plant. Work will be completed based on the condition of the buildings.</p> <p>This project will replace the roof at the administration building, which has been identified through a condition assessment as being in very poor condition.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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2019	Jan 1, 2023	20 Years	Karin Pratte	Dec 31, 2031

<b>Number:</b>	4205RD	<b>Scenario:</b>	Main
<b>Title:</b>	Climate Change Initiatives	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Environmental,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project will look at ways to address the impacts of climate change and reduce its effects within the City, including the impacts to people, the environment, and infrastructure.	<p>During 2018 to 2020 the City participated in the Northern Climate Change Network through a program led by the Climate Risk Institute. The program facilitated a Climate Change Risk Assessment for North Bay. This project will continue building on that assessment to identify future needs and projects associated with climate change.</p> <p>Work in 2023 will include a city-wide detailed engineering risk assessment of specific locations and infrastructure.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2022	Jan 1, 2022	N/A	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	4206RF	<b>Scenario:</b>	Main
<b>Title:</b>	Pete Palangio Parking Lot Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	RECREATION FACILITY
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project is to provide lighting, drainage, grading and new asphalt for Pete Palangio arena parking lot.		The budget in 2024 includes costs associated with engineering and the rehabilitation of the entire parking lot including asphalt, lot drainage, lighting, general grading, and correction of negative grading around the building perimeter.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	627,450	627,450	0
	<b>627,450</b>	<b>627,450</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 627,450		

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2017	Jan 1, 2024	15 Years	David Jackowski	Dec 31, 2024

<b>Number:</b>	4207ST	<b>Scenario:</b>	Main
<b>Title:</b>	Stormwater Outfall Repair and Rehabilitation	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for corrective measures to various storm sewer outfalls to Lake Nipissing.</p> <p>Engineering services will include condition inspections, contract drawings, specifications, tendering and construction.</p>	<p>There are a number of storm outlet structures at or nearing the end of their service life with critical deficiencies and risk of failure. The mitigation measures will include both repair works to current deficiencies and proactive works to prevent the further deterioration and failure of the highest risk outlets.</p> <p>In 2015 a study was completed that included inventorying the outfalls and identifying the most critical needs. In future years, work will involve design and construction of the corrective measures, which will include erosion control treatments, flushing and pipe repairs. The work will be constructed in multiple phases.</p> <p>Work in 2023 will include the review of the 2015 condition assessment, identification of the highest risk outfalls, and preliminary and detailed design. Construction will commence in 2024.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2011	Jan 1, 2023	50 years	Adam Lacombe	Dec 31, 2024

<b>Number:</b>	4208RD	<b>Scenario:</b>	Main
<b>Title:</b>	Four Mile Lake Rd. Extension to Highway 11	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project involves the engineering and construction services for a new rural roadway from the west end of Four Mile Lake Road to Marsh Drive and possible upgrades on Marsh Drive to Highway 11; including, any required improvements to Highway 11 and the Marsh Drive intersection.</p> <p>The road will be constructed as a truck route to service existing industrial properties and new industrial developments in the airport area. An environmental assessment (EA) was previously completed using in-house Engineering staff. Future engineering services will include preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>The project's priority is related to development and further expansion of the Aerospace Industrial Park.</p> <p>The project would also address some safety concerns. Truck traffic to Highway 11/17 is currently serviced by Airport Road and O'Brien Street. Thibeault Hill on Highway 11 has a truck arrestor bed and Airport Hill does not. Removing truck traffic from Airport Hill and redirecting it to Thibeault Hill would reduce the risk of runaway trucks. Re-routing truck traffic would also extend the life of Airport Road and O'Brien Street between Airport Road and Highway 11/17.</p> <p>Work in 2023 would be for the preliminary design followed by a detailed design.</p> <p>Related projects include 4300RD/SS/ST/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2011	Jan 1, 2023	25 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4209GG	<b>Scenario:</b>	Main
<b>Title:</b>	City Hall Customer Service Centre & Lobby Renovations	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	GENERAL GOVERNMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for a complete renovation to the Customer Service Centre at City Hall to suit modern operational requirements.	The service delivery model for the Customer Service Centre (Centre) has evolved over the years and the existing space is no longer meeting the needs of the Centre. This project will rebuild the space to meet the modern service delivery model and modern accessible requirements of the AODA.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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2026	343,137	343,137	0																		
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<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 686,274																				

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2020	Jan 31, 2025	TBD	Kevin Vescio	Dec 31, 2026

<b>Number:</b>	4210GD	<b>Scenario:</b>	Main
<b>Title:</b>	New Organic Waste Drop-off and Hazardous Waste Depot	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Environmental
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	WASTE DISPOSAL
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides funds for the Organics Waste Drop-off and Hazardous Waste Depot to be moved to a new location.	The Organics Waste Drop-off and Hazardous Waste Depot is currently situated at the Recycling Centre on Patton Street. Recycling legislation has changed and the extended producer responsibility (EPR) model is being implemented in Ontario. The "producers" will be managing recycling for municipalities starting in 2025 for the City of North Bay. The Organics Waste Drop-off and Hazardous Waste Depot will need to be relocated prior to EPR implementation.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2024	735,000	735,000	0														
	<b>735,000</b>	<b>735,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 735,000																

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2022	Jan 1, 2024	TBD	Karin Pratte	Dec 31, 2024



<b>Number:</b>	4212WS	<b>Scenario:</b>	Main
<b>Title:</b>	Water Treatment Plant Major Equipment Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
This project will provide for the replacement of equipment that will be at end of life at the Water Treatment Plant. This includes booster pumps, motors, valves, and electrical equipment.		The equipment at the Water Treatment Plant is nearing the end of their useful lives and will need to be replaced. This equipment includes the booster pump, motors, valves, and electrical equipment.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
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<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2029	294,000	294,000	0
2031	4,410,000	4,410,000	0
	<b>4,704,000</b>	<b>4,704,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 4,704,000		

<b>Related Projects</b>		<b>Operating Impacts</b>	
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2022	Jan 1, 2029	TBD	Karin Pratte	Dec 31, 2031

<b>Number:</b>	4213WS	<b>Scenario:</b>	Main
<b>Title:</b>	Airport Standpipe Major Equipment Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
This project will provide for the replacement of equipment that will be at end of life at the Airport standpipe. This includes booster pumps, motors, valves, and electrical equipment.		The equipment at the Airport standpipe is nearing the end of their useful lives and will need to be replaced. This equipment includes the booster pump, motors, valves, and electrical equipment.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2029	294,000	294,000	0
2031	980,000	980,000	0
	<b>1,274,000</b>	<b>1,274,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,274,000		

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2022	Jan 1, 2029	TBD	Karin Pratte	Dec 31, 2031

<b>Number:</b>	4214WS	<b>Scenario:</b>	Main
<b>Title:</b>	Ellendale Structural Repairs	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Environmental
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for extensive structural repairs to the City's largest reservoir - Ellendale.	<p>The Ellendale Reservoir is the City's largest water holding structure with a capacity just over 18,000m3. This reservoir was constructed approximately 50 years ago and has a concrete base, walls, roof, and columns.</p> <p>An inspection of the reservoir was performed in 2021 which noted some immediate and future structural repair work. The immediate needs were dealt with in 2021 at the conclusion of the inspection. This project will address the remaining concrete structural repairs to the walls and columns in the Ellendale reservoir that were identified during the 2021 inspection.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 4,704,000																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2022	Jan 1, 2029	TBD	Karin Pratte	Dec 31, 2031

<b>Number:</b>	4215RD	<b>Scenario:</b>	Main
<b>Title:</b>	Local Road Reconstruction	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the complete reconstruction of local residential roadways. The capacity and condition of the existing underground infrastructure (storm, sanitary, and water) will be evaluated to determine if any work is required to repair, rehabilitate, or replace the infrastructure.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction.</p>	<p>The condition of local roads will be monitored and analyzed on an on-going basis to determine and confirm prioritization. To assist with the prioritization, the City's Pavement Management Software will be utilized to help identify roads that are at the end of their useful life and require complete reconstruction.</p> <p>The complete replacement of the above-ground infrastructure provides the opportunity to repair, rehabilitate, or replace the underground infrastructure.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,234,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2022	Jan 1, 2028	25 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	4216RD	<b>Scenario:</b>	Main
<b>Title:</b>	Memorial Rehabilitation	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>				<b>Comments</b>			
<p>The project will rehabilitate the asphalt on Memorial Drive to restore the riding surface. The project will examine a variety of techniques for rehabilitation of the roadway including asphalt grinding, recycling, crack sealing, base stabilization, drainage improvements, curb restoration, and boulevard restoration in addition to hot-mix asphalt paving.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>				<p>Portions of Memorial Drive have previously been rehabilitated through the annual resurfacing program. This project will be timed with the end of the expected life of those rehabilitations.</p> <p>In conjunction with planning for the City's annual resurfacing program, the City's Pavement Management Software will be utilized to determine timing and best rehabilitation techniques.</p>			
<b>Scenario Description</b>				<b>Scenario Comments</b>			
<b>Forecast</b>				<b>Project Detailed 2023</b>			
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>				
2031	1,470,000	1,470,000	0				
	<b>1,470,000</b>	<b>1,470,000</b>	<b>0</b>				
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,470,000						
<b>Related Projects</b>				<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>			<b>Completion Date</b>	
2022	Jan 1, 2031	10 Years	Adam Lacombe			Dec 31, 2031	

<b>Number:</b>	4217TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit Electrification	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Technology, Environmental, Equipment Replacement
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	TRANSIT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>																	
<p>To provide the necessary infrastructure, technology, and equipment to facilitate the transition of the North Bay Transit Services fleet of vehicles from fossil fuels to alternate fuel sources to meet net zero emission targets. As the roadmap evolves the details of the project objectives and requirements will be established.</p>		<p>North Bay Transit currently operates 12 diesel fueled buses, a combination of diesel and unleaded gas para-buses, and an unleaded gas support vehicle. Transit has the responsibility to reduce its carbon footprint and transition towards a net-zero carbon emissions fleet. The project will involve the purchase and installation of charging/ refueling stations and facilitating infrastructure, and replacing fossil-fuel vehicles with zero-emission vehicles.</p> <p>The project will be phased over several years (est. 5-8 years) to transition the fleet of fossil fueled vehicles to zero-emission fleet. The project will focus on infrastructure, technology, and equipment to facilitate the transition of the Transit fleet of vehicles. The plan will be coordinated and aligned with the, yet to be formalized/determined, Transit Fleet transition to zero-emission vehicles.</p> <p>As of 2021, North Bay Transit is participating in a Provincial wide initiative to develop a roadmap towards transitioning from fossil fueled transit vehicles to zero emission fueled vehicles. As the roadmap evolves the details of the project objectives and requirements will become clearer.</p>																	
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2022	Jan 1, 2031	TBD	Drew Poeta	Dec 31, 2039															

<b>Number:</b>	4300RD	<b>Scenario:</b>	Main
<b>Title:</b>	Airport Industrial Park Expansion	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to provide water and sanitary sewer services to the next phases of the Airport Industrial Park as well as servicing for the Highway 11 North corridor.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The first phase of the Airport Industrial Business Park included servicing to 120 acres of land. This project would be the second phase to extend services to additional lands at the northeast or northwest portion of the airport property. The timing of the project will be contingent on the buildout rate of Phase 1.</p> <p>Work in 2023 would be for the preliminary design followed by a detailed design.</p> <p>Related projects include 4300SS/ST/WS and 4208RD</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																			
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2023	25 Years	Adam Lacombe	Dec 31, 2029

<b>Number:</b>	4300SS	<b>Scenario:</b>	Main
<b>Title:</b>	Airport Industrial Park Expansion	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to provide water and sanitary sewer services to the next phases of the Airport Industrial Park as well as servicing for the Highway 11 North corridor.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The first phase of the Airport Industrial Business Park included servicing to 120 acres of land. This project would be the second phase to extend services to additional lands at the northeast or northwest portion of the airport property. The timing of the project will be contingent on the buildout rate of Phase 1.</p> <p>Work in 2023 would be for the preliminary design followed by a detailed design.</p> <p>Related projects include 4300RD/ST/WS and 4208RD</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2023	75 Years	Adam Lacombe	Dec 31, 2029



<b>Number:</b>	4300ST	<b>Scenario:</b>	Main
<b>Title:</b>	Airport Industrial Park Expansion	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to provide water and sanitary sewer services to the next phases of the Airport Industrial Park as well as servicing for the Highway 11 North corridor.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The first phase of the Airport Industrial Business Park included servicing to 120 acres of land. This project would be the second phase to extend services to additional lands at the northeast or northwest portion of the airport property. The timing of the project will be contingent on the buildout rate of Phase 1.</p> <p>Work in 2023 would be for the preliminary design followed by a detailed design.</p> <p>Related projects include 4300RD/SS/WS and 4208RD</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																													
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2023	75 Years	Adam Lacombe	Dec 31, 2029

<b>Number:</b>	4300WS	<b>Scenario:</b>	Main
<b>Title:</b>	Airport Industrial Park Expansion	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to provide water and sanitary sewer services to the next phases of the Airport Industrial Park as well as servicing for the Highway 11 North corridor.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The first phase of the Airport Industrial Business Park included servicing to 120 acres of land. This project would be the second phase to extend services to additional lands at the northeast or northwest portion of the airport property. The timing of the project will be contingent on the buildout rate of Phase 1.</p> <p>Work in 2023 would be for the preliminary design followed by a detailed design.</p> <p>Related projects include 4300RD/SS/ST and 4208RD</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2023	75 Years	Adam Lacombe	Dec 31, 2029

<b>Number:</b>	4301RD	<b>Scenario:</b>	Main
<b>Title:</b>	Roadside Guide Rails and Retaining Walls - Inspection and Upgrade	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to maintain and rehabilitate retaining wall and guide rail systems across the City.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The priority of this project relates to the need to maintain or improve the City's roadside safety infrastructure. An initial inspection of the City's guide rails was completed in 2015 that identified priority repairs and enhancements. The retaining walls inspection is to be completed at a later date.</p> <p>Work in 2023 will include the review of the 2015 condition assessment, identification of the highest risk guide rails, and construction of the work.</p>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2018	Jan 1, 2023	25 Years	Adam Lacombe	Dec 31, 2024

<b>Number:</b>	4302RD	<b>Scenario:</b>	Main
<b>Title:</b>	Pearson St. and Bank St. Culvert Replacements	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project provides for the engineering and construction for the replacement of the culverts on Pearson St. and Bank St.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The existing culverts on Pearson St. and Bank St. are at the end of their useful life and need to be replaced.</p> <p>The existing culverts are made of corrugated steel and will be replaced with plastic or concrete culverts.</p> <p>Work in 2023 will be for the preliminary and detailed design. Construction anticipated to start in 2025.</p> <p>Related projects include 4302ST.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2023	25 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	4302ST	<b>Scenario:</b>	Main
<b>Title:</b>	Pearson St. and Bank St. Culvert Replacements	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project provides for the engineering and construction for the replacement of the culverts on Pearson St. and Bank St.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The existing culverts on Pearson St. and Bank St. are at the end of their useful life and need to be replaced.</p> <p>The existing culverts are made of corrugated steel and will be replaced with plastic or concrete culverts.</p> <p>Work in 2023 will be for the preliminary and detailed design. Construction anticipated to start in 2025.</p> <p>Related projects include 4302RD.</p>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2023	75 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	4303RD	<b>Scenario:</b>	Main
<b>Title:</b>	Premier Sidewalk and Resurfacing	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the extension of the existing sidewalk approximately 1.1 km to Champlain Park as well as resurfacing and ditching.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>		<p>The existing sidewalk is located along the west side of Premier Road from Lakeshore Drive to approximately 720m to the south. Due to the proximity to Lake Nipissing, storm sewers would be too shallow and therefore is not feasible. Ditching will be required for the drainage and to separate the sidewalk from the roadway.</p> <p>The road surface has been identified for rehabilitation through the City's pavement management software.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	1,666,000	1,666,000	0
	<b>1,666,000</b>	<b>1,666,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,666,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2023	Jan 1, 2024	25 to 30 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2025

<b>Number:</b>	4304ST	<b>Scenario:</b>	Main
<b>Title:</b>	Airport Road Storm Sewer	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to reconstruct the storm sewer system on Airport Road from Stockdale to Chippewa Creek.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>The existing storm sewer is made of corrugated steel and has rusted and failed in several sections. The sewer will be replaced with plastic or concrete pipe.</p> <p>Work in 2023 will be for the preliminary and detailed design. Construction anticipated to start in 2024.</p>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	75 Years	Adam Lacombe	Dec 31, 2025

<b>Number:</b>	4305PK	<b>Scenario:</b>	Main
<b>Title:</b>	Carousel Parking Lot Paving	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	PARKING
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to pave the parking lot adjacent to the waterfront carousels.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>The existing parking lot surface is gravel. Paving of the parking lot will improve the level of service and reduce maintenance requirements.</p>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2032	25 Years	Adam Lacombe	Dec 31, 2032



<b>Number:</b>	4306PR	<b>Scenario:</b>	Main
<b>Title:</b>	Mini-Train Underpass Pedestrian Walkway	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to convert the mini-train underpass to a pedestrian walkway.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>The mini-train underpass was originally constructed under the OVR/CPR train tracks in anticipation of extension of the mini-train system from the west side of the tracks to the park lands on the east side of the tracks. Through the Downtown Waterfront Master Plan, it was identified that it was desirable to repurpose the mini-train underpass as a pedestrian walkway to create another pedestrian connection from the downtown and park lands to the waterfront.</p> <p>Creation of the pedestrian walkway will involve the construction of a walking surface and an additional underpass under the existing mini-train track.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2032</td> <td>1,470,000</td> <td>1,470,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,470,000</b></td> <td><b>1,470,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 0</td> <td colspan="2"><b>Total Project Cost:</b> 1,470,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2032	1,470,000	1,470,000	0		<b>1,470,000</b>	<b>1,470,000</b>	<b>0</b>	<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,470,000		
Budget Year	Total Expense	Total Revenue	Difference														
2032	1,470,000	1,470,000	0														
	<b>1,470,000</b>	<b>1,470,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,470,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2032	25 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4307RD	<b>Scenario:</b>	Main
<b>Title:</b>	Champlain & McKeown Intersection Improvements	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to improve the intersection configuration and intersection safety.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>A traffic impact study completed for a redevelopment proposal of the former Trusler school property on Cartier identified that there are existing safety concerns with the intersection of Champlain and McKeown.</p> <p>An update to the McKeown Avenue environmental assessment was started in 2022 for the City's project to widen McKeown from Gormanville to Cartier. When the safety concerns at the Champlain intersection were identified, the City's project was expanded to include an analysis and design of safety improvements for the intersection. The improvements that are identified will be constructed through this project.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2025	1,470,000	1,470,000	0														
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<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,470,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2025	25 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	4308RD	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. Alleyway Drainage Improvements	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to improve the drainage in the alleyway between Main St and the McIntyre parking garage.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>The Building Blocks group, comprised of Main West property owners, has provided a proposal to the City to revitalize the alleyway space to become an important activity and gathering place in the downtown that is strategically linked to the arts &amp; culture sector. The goal is to achieve their vision through a number of infrastructure and programming proposals. The group has identified drainage concerns within the alleyway. Potential drainage alternatives include regrading, repaving, and a new storm sewer system.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	9,800	9,800	0																		
2026	245,000	245,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 254,800</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2024	25 Years	Adam Lacombe	Dec 31, 2027

<b>Number:</b>	4309SL	<b>Scenario:</b>	Main
<b>Title:</b>	Oak Pedestrian Crossing	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STREET LIGHTS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to formalize the pedestrian crossing on Oak Street between Fraser and Ferguson.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>The existing pedestrian crossing on Oak Street is an informal crosswalk. This project will analyze the requirements to implement a formal crosswalk in accordance with industry standards and the Highway Traffic Act. The formal crosswalk will include signage and potentially some form of signalization - i.e. rectangular rapid flashing beacons or standard traffic signals.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	100,000	100,000	0														
	<b>100,000</b>	<b>100,000</b>	<b>0</b>														
<b>LTD Amount: 0</b>		<b>Total Project Cost: 100,000</b>															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2026	25 to 35 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	4310RD	<b>Scenario:</b>	Main
<b>Title:</b>	Pearce St. Extension to Tower Dr.	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to extend Pearce Street to Tower Drive.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>The future extension of Pearce Street will be along the property line between two privately owned properties that will both be developed into subdivisions. The project will involve coordination of the road, sewer, and water design and construction between the two private owners and the City. The City will require that the road be upsized to a collector standard and that the water and sanitary sewer be upsized to trunk mains. The City will follow past practice and contribute funding for the incremental costs for upsizing the road and mains, with the balance being funded by the developers.</p> <p>Work in 2023 will be for the preliminary and detailed design. Construction anticipated to start in 2025.</p> <p>Related projects include 4310ST/SS/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	25 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	4310SS	<b>Scenario:</b>	Main
<b>Title:</b>	Pearce St. Extension to Tower Dr.	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to extend Pearce Street to Tower Drive.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>The future extension of Pearce Street will be along the property line between two privately owned properties that will both be developed into subdivisions. The project will involve coordination of the road, sewer, and water design and construction between the two private owners and the City. The City will require that the road be upsized to a collector standard and that the water and sanitary sewer be upsized to trunk mains. The City will follow past practice and contribute funding for the incremental costs for upsizing the road and mains, with the balance being funded by the developers.</p> <p>Work in 2023 will be for the preliminary and detailed design. Construction anticipated to start in 2025.</p> <p>Related projects include 4310RD/ST/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	75 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	4310ST	<b>Scenario:</b>	Main
<b>Title:</b>	Pearce St. Extension to Tower Dr.	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to extend Pearce Street to Tower Drive.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>The future extension of Pearce Street will be along the property line between two privately owned properties that will both be developed into subdivisions. The project will involve coordination of the road, sewer, and water design and construction between the two private owners and the City. The City will require that the road be upsized to a collector standard and that the water and sanitary sewer be upsized to trunk mains. The City will follow past practice and contribute funding for the incremental costs for upsizing the road and mains, with the balance being funded by the developers.</p> <p>Work in 2023 will be for the preliminary and detailed design. Construction anticipated to start in 2025.</p> <p>Related projects include 4310RD/SS/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	25 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	4310WS	<b>Scenario:</b>	Main
<b>Title:</b>	Pearce St. Extension to Tower Dr.	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to extend Pearce Street to Tower Drive.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>The future extension of Pearce Street will be along the property line between two privately owned properties that will both be developed into subdivisions. The project will involve coordination of the road, sewer, and water design and construction between the two private owners and the City. The City will require that the road be upsized to a collector standard and that the water and sanitary sewer be upsized to trunk mains. The City will follow past practice and contribute funding for the incremental costs for upsizing the road and mains, with the balance being funded by the developers.</p> <p>Work in 2023 will be for the preliminary and detailed design. Construction anticipated to start in 2025.</p> <p>Related projects include 4310RD/ST/SS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	75 Years	Adam Lacombe	Dec 31, 2026



<b>Number:</b>	4311RD	<b>Scenario:</b>	Main
<b>Title:</b>	Trout Lake Road Resurfacing (Highway 11/17 to Connaught)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to rehabilitate the pavement surface on Trout Lake Road from Highway 11/17 to Connaught Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>Trout Lake Road was fully reconstructed in 2009 from Highway 11/17 to Connaught Avenue which is approximately 1 km in length. The construction was completed with funding support from the MTO through its Connecting Link Program. The City performed some crack sealing in 2019 to extend the life of the asphalt, however this section of roadway will require rehabilitation (milling and paving).</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2024	10 Years	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	4312PR	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Canada Place	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the completion of the North Bay Canada Place with project management being undertaken by the City.	<p>The North Bay Canada Place is a cooperative project between the City and the North Bay Heritage Gardeners that involves the creation of an inclusive gathering space where downtown meets the waterfront. The project features accessible pathways from Memorial Dr. to the waterfront pathway as well as the installation of the gathering place and garden area as the focal point.</p> <p>In 2020, the City installed the pathways and the lighting necessary for this project to continue. In 2022, the North Bay Heritage Gardeners tendered the remaining work; however, insufficient funds meant the project could not be awarded. This project provides for the completion of the original plan which will bring the area back up to appropriate standards. The project will be managed by the City through a contribution agreement with the North Bay Heritage Gardeners to assist in the funding of this project.</p>

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<b>Forecast</b>	<b>Project Detailed 2023</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	4313SS	<b>Scenario:</b>	Main
<b>Title:</b>	Pumping Station Condition Assessments	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering services to perform condition assessments on sanitary pumping stations and forcemains to determine current condition and next steps. Following the condition assessments, recommendations could include rehabilitation, expansion, or replacement.	In recent years, a number of sanitary pumping stations have been replaced (Gertrude & Wallace), identified for replacement (Premier & Kings Landing), been eliminated (Metcalfe & Janey) or have had a recent condition assessment performed (Booth in 2021); however, there are eleven pumping stations remaining that do require condition assessments. The condition of these eleven pumping stations needs to be determined in order to optimize their functionality.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2024	TBD	Adam Lacombe	Jun 30, 2025

<b>Number:</b>	4314SS	<b>Scenario:</b>	Main
<b>Title:</b>	Septage Receiving Station Upgrades	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for upgrades to the Patton Street septage receiving station in order to reduce the downstream collection system and lift station repairs and maintenance.	There have been numerous failures in the collection system downstream of the septage receiving station due to materials being dumped. This project will upgrade the septage receiving station in order to reduce the downstream collection system and lift station failures.

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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Karin Pratte	Dec 31, 2023

<b>Number:</b>	4315WS	<b>Scenario:</b>	Main
<b>Title:</b>	Unidirectional Flushing Update	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Master Plans
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for upgrading the unidirectional flushing plan utilized by staff annually which is outdated and non-representative of many areas of the City's water distribution system.	Annually the City completes unidirectional flushing of our water distribution system. The flushing helps remove debris and extends the lifecycle of our water system and is done in a specific sequence which is outlined in a plan. The existing plan was developed in 2004 and much of the water distribution system has changed since that time making the existing plan and sequence outdated. The funds from this project will be used to hire a consultant to develop a new plan which will incorporate the multiple upgrades to the distribution system.

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Budget Year	Total Expense	Total Revenue	Difference																																			
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	Adam Lacombe	Jun 30, 2024

<b>Number:</b>	4316ST	<b>Scenario:</b>	Main
<b>Title:</b>	Storm Sewer Condition Assessment	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering services to perform condition assessments on storm sewers to determine current condition and next steps. Following the condition assessments, recommendations could include rehabilitation, expansion, or replacement.	Staff primarily rely on pipe age and material to determine projected condition and assist with asset management analysis for project identification and prioritization. This project will improve specific asset knowledge of the actual condition of the sewer system and where the pipe is in its life cycle. The condition assessments will be conducted through CCTV inspections and industry standard rating systems.  Under another project, a city-wide storm sewer system model will be started in 2023 to assist with identifying critical areas for the sewer condition assessments.  Related projects include 4334ST, 6750ST.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2024	TBD	Adam Lacombe	Jun 30, 2025

<b>Number:</b>	4317SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sanitary Sewer Condition Assessment	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering services to perform condition assessments on sanitary sewers to determine current conditions and next steps. Following the condition assessments, recommendations could include rehabilitation, expansion, or replacement.	Staff primarily rely on pipe age and material to determine projected condition and assist with asset management analysis for project identification and prioritization. This project will improve specific asset knowledge of the actual condition of the sewer system and where the pipe is in its life cycle. The condition assessments will be conducted through CCTV inspections and industry standard rating systems.  Under another project, a city-wide sanitary sewer system model will be started in 2023 to assist with identifying critical areas for the sewer condition assessments.  Related projects include 6750SS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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2024	490,000	490,000	0														
	<b>490,000</b>	<b>490,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 490,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2024	TBD	Adam Lacombe	Jun 30, 2025

<b>Number:</b>	4318WS	<b>Scenario:</b>	Main
<b>Title:</b>	Watermain Condition Inspections	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering services to perform condition assessments on watermains in order to determine current condition and next steps. Following the condition assessments, recommendations could include rehabilitation, expansion, or replacement.	Staff primarily rely on pipe age and material to determine projected condition and assist with asset management analysis for project identification and prioritization. This project will improve specific asset knowledge of the actual condition of the water system and where the pipe is in its life cycle. The condition assessments will be conducted through testing of pipe segments obtained from emergency repairs and capital reconstruction, and through ball testing.  Under another project, a city-wide water system model will be updated in 2023 to assist with identifying critical areas for the sewer condition assessments.  Related projects include 6750WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2025</td> <td>490,000</td> <td>490,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>490,000</b></td> <td><b>490,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 0</td> <td colspan="2"><b>Total Project Cost:</b> 490,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2025	490,000	490,000	0		<b>490,000</b>	<b>490,000</b>	<b>0</b>	<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 490,000		
Budget Year	Total Expense	Total Revenue	Difference														
2025	490,000	490,000	0														
	<b>490,000</b>	<b>490,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 490,000															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2025	TBD	Adam Lacombe	Jun 30, 2026



<b>Number:</b>	4319RD	<b>Scenario:</b>	Main
<b>Title:</b>	Jane St. Reconstruction (Timmins to Algonquin)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the complete reconstruction of the above-ground and underground infrastructure and to upgrade Jane Street to a proper collector standard from Timmins Street to Algonquin Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>		<p>Jane Street was originally constructed as a semi-urban collector (included ditches). Jane Street is a primary collector route between Algonquin Avenue and Gormanville Road that also services hospital bound traffic. As part of the hospital servicing, Jane Street was reconstructed between Birchwood Road and Timmins Street in 2006 and between Gormanville Avenue and Birchwood Road in 2008.</p> <p>This project was identified through the City's asset management software and is the remaining section of Jane Street that has not been reconstructed. The level of service improvement on this collector is desirable.</p> <p>Related projects include 4319ST/SS/WS</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2027	196,000	196,000	0
2030	3,626,000	3,626,000	0
	<b>3,822,000</b>	<b>3,822,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 3,822,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2023	Jan 1, 2027	25 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2031

<b>Number:</b>	4319SS	<b>Scenario:</b>	Main
<b>Title:</b>	Jane St. Reconstruction (Timmins to Algonquin)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the complete reconstruction of the above-ground and underground infrastructure and to upgrade Jane Street to a proper collector standard from Timmins Street to Algonquin Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>		<p>Jane Street was originally constructed as a semi-urban collector (included ditches). Jane Street is a primary collector route between Algonquin Avenue and Gormanville Road that also services hospital bound traffic. As part of the hospital servicing, Jane Street was reconstructed between Birchwood Road and Timmins Street in 2006 and between Gormanville Avenue and Birchwood Road in 2008.</p> <p>This project was identified through the City's asset management software and is the remaining section of Jane Street that has not been reconstructed. The level of service improvement on this collector is desirable.</p> <p>Related projects include 4319RD/ST/WS</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2027	78,400	78,400	0
2030	1,372,000	1,372,000	0
	<b>1,450,400</b>	<b>1,450,400</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,450,400		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2023	Jan 1, 2027	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2031

<b>Number:</b>	4319ST	<b>Scenario:</b>	Main
<b>Title:</b>	Jane St. Reconstruction (Timmins to Algonquin)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the complete reconstruction of the above-ground and underground infrastructure and to upgrade Jane Street to a proper collector standard from Timmins Street to Algonquin Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>Jane Street was originally constructed as a semi-urban collector (included ditches). Jane Street is a primary collector route between Algonquin Avenue and Gormanville Road that also services hospital bound traffic. As part of the hospital servicing, Jane Street was reconstructed between Birchwood Road and Timmins Street in 2006 and between Gormanville Avenue and Birchwood Road in 2008.</p> <p>This project was identified through the City's asset management software and is the remaining section of Jane Street that has not been reconstructed. The level of service improvement on this collector is desirable.</p> <p>Related projects include 4319RD/SS/WS</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2027</td> <td>78,400</td> <td>78,400</td> <td>0</td> </tr> <tr> <td>2030</td> <td>1,372,000</td> <td>1,372,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,450,400</b></td> <td><b>1,450,400</b></td> <td><b>0</b></td> </tr> <tr> <td><b>LTD Amount:</b> 0</td> <td colspan="3"><b>Total Project Cost:</b> 1,450,400</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2027	78,400	78,400	0	2030	1,372,000	1,372,000	0		<b>1,450,400</b>	<b>1,450,400</b>	<b>0</b>	<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,450,400			
Budget Year	Total Expense	Total Revenue	Difference																		
2027	78,400	78,400	0																		
2030	1,372,000	1,372,000	0																		
	<b>1,450,400</b>	<b>1,450,400</b>	<b>0</b>																		
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,450,400																				

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2027	75 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	4319WS	<b>Scenario:</b>	Main
<b>Title:</b>	Jane St. Reconstruction (Timmins to Algonquin)	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for the complete reconstruction of the above-ground and underground infrastructure and to upgrade Jane Street to a proper collector standard from Timmins Street to Algonquin Avenue.</p> <p>Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>		<p>Jane Street was originally constructed as a semi-urban collector (included ditches). Jane Street is a primary collector route between Algonquin Avenue and Gormanville Road that also services hospital bound traffic. As part of the hospital servicing, Jane Street was reconstructed between Birchwood Road and Timmins Street in 2006 and between Gormanville Avenue and Birchwood Road in 2008.</p> <p>This project was identified through the City's asset management software and is the remaining section of Jane Street that has not been reconstructed. The level of service improvement on this collector is desirable.</p> <p>Related projects include 4319RD/ST/SS</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2027	78,400	78,400	0
2030	1,470,000	1,470,000	0
	<b>1,548,400</b>	<b>1,548,400</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,548,400		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2023	Jan 1, 2027	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2031

<b>Number:</b>	4320SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant Condition Assessment Update	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for an updated condition assessment of the North Bay Wastewater Treatment Plant.	The North Bay Wastewater Treatment Plant was originally constructed in 1959-1961 and has undergone two significant upgrades. A condition assessment was completed on the facility in 2011. This project will provide an update to the existing condition assessment which can be fed into the asset management plan and aid in setting priorities for future capital upgrades to the facility.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																					
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>147,000</td> <td>147,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>147,000</b></td> <td><b>147,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 147,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	147,000	147,000	0		<b>147,000</b>	<b>147,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 147,000</b>		<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>147,000</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>147,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>147,000</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>147,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3425	CONSTRUCTION CONTRACT	147,000	<b>Total Expense:</b>		<b>147,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	147,000	<b>Total Revenue:</b>		<b>147,000</b>
Budget Year	Total Expense	Total Revenue	Difference																																			
2023	147,000	147,000	0																																			
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 147,000</b>																																				
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0461	TSF FRM REV FUND-PAYGO	147,000																																				
<b>Total Revenue:</b>		<b>147,000</b>																																				

<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Karin Pratte	Dec 31, 2023

<b>Number:</b>	4321SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant Heat Exchanger and Sludge Transfer Piping	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of the heat exchanger and sludge transfer piping at the Wastewater Treatment Plant.	The North Bay Wastewater Treatment Plant treats all wastewater for the City of North Bay's municipal sewage collection system. The digested sludge process requires a heat exchange and hundreds of meters of sludge piping. The current heat exchanger and sludge transfer piping are nearing the end of their useful lives and will need to be replaced.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2032</td> <td>4,900,000</td> <td>4,900,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>4,900,000</b></td> <td><b>4,900,000</b></td> <td><b>0</b></td> </tr> <tr> <td><b>LTD Amount:</b> 0</td> <td colspan="3"><b>Total Project Cost:</b> 4,900,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2032	4,900,000	4,900,000	0		<b>4,900,000</b>	<b>4,900,000</b>	<b>0</b>	<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 4,900,000			
Budget Year	Total Expense	Total Revenue	Difference														
2032	4,900,000	4,900,000	0														
	<b>4,900,000</b>	<b>4,900,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 4,900,000																

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2032	TBD	Karin Pratte	Dec 31, 2032

<b>Number:</b>	4322SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant Blower Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of the blowers at the North Bay Wastewater Treatment Plant.	The North Bay Wastewater Treatment Plant treats all wastewater for the City of North Bay's municipal sewage collection system. The facility uses the conventional activated sludge process for wastewater treatment. This process requires blowers to feed oxygen into the aeration tanks. The current blowers are nearing the end of their useful lives and will be due for replacement in 2032.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2032</td> <td>3,920,000</td> <td>3,920,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>3,920,000</b></td> <td><b>3,920,000</b></td> <td><b>0</b></td> </tr> <tr> <td><b>LTD Amount:</b> 0</td> <td colspan="3"><b>Total Project Cost:</b> 3,920,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2032	3,920,000	3,920,000	0		<b>3,920,000</b>	<b>3,920,000</b>	<b>0</b>	<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 3,920,000			
Budget Year	Total Expense	Total Revenue	Difference														
2032	3,920,000	3,920,000	0														
	<b>3,920,000</b>	<b>3,920,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 3,920,000																

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2032	30 Years	Karin Pratte	Dec 31, 2032

<b>Number:</b>	4323WS	<b>Scenario:</b>	Main
<b>Title:</b>	Water Plant & Facilities Condition Assessment Update	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for a condition assessment of the North Bay Water Treatment Plant and related facilities and facility assets in order to determine the current condition and next steps.	The condition assessment will be performed by a third party and its focus will be on the North Bay Water Treatment Plant and the related facilities and facility assets. The condition assessment will provide condition ratings and recommendations on these assets which will be fed into the asset management plan to aid in setting priorities for future capital upgrades, repairs, rehabilitations, and replacement.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	98,000	98,000	0																		
2025	98,000	98,000	0																		
	<b>196,000</b>	<b>196,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 196,000</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2024	TBD	Karin Pratte	Dec 31, 2025



<b>Number:</b>	4324SS	<b>Scenario:</b>	Main
<b>Title:</b>	Algonquin Sanitary Sewer Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services for rehabilitation of various sections of sanitary sewer on Algonquin Avenue between Lansdowne and Cassells.	The City's asset management software has identified various sections of sanitary sewer on Algonquin Avenue in need for rehabilitation. Rehabilitation recommendations may include sewer relining, spot repairs, and other trenchless technologies methods.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2032</td> <td>1,470,000</td> <td>1,470,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,470,000</b></td> <td><b>1,470,000</b></td> <td><b>0</b></td> </tr> <tr> <td><b>LTD Amount:</b> 0</td> <td colspan="3"><b>Total Project Cost:</b> 1,470,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2032	1,470,000	1,470,000	0		<b>1,470,000</b>	<b>1,470,000</b>	<b>0</b>	<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,470,000			
Budget Year	Total Expense	Total Revenue	Difference														
2032	1,470,000	1,470,000	0														
	<b>1,470,000</b>	<b>1,470,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,470,000																

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2032	TBD	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4325SS	<b>Scenario:</b>	Main
<b>Title:</b>	Fisher Sanitary Sewer Rehab	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services for rehabilitation of various sections of sanitary sewer on Fisher Street between Highway 11/17 and Main St.	The City's asset management software has identified various sections of sanitary sewer on Fisher Street in need of rehabilitation. Rehabilitation recommendations may include sewer relining, spot repairs, and other trenchless technologies methods.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2032</td> <td>2,450,000</td> <td>2,450,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>2,450,000</b></td> <td><b>2,450,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 2,450,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2032	2,450,000	2,450,000	0		<b>2,450,000</b>	<b>2,450,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,450,000</b>		
Budget Year	Total Expense	Total Revenue	Difference														
2032	2,450,000	2,450,000	0														
	<b>2,450,000</b>	<b>2,450,000</b>	<b>0</b>														
<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,450,000</b>															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2032	TBD	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4326WS	<b>Scenario:</b>	Main
<b>Title:</b>	Ellendale Check Valve Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of the Ellendale Reservoir inlet and outlet check valves.	The Ellendale Reservoir is the largest reservoir in the City of North Bay and provides floating head pressure to zone 1 (the majority of the City of North Bay). The inlet and outlet of the reservoir have check valves which direct flows. Their operation is critical to the reservoir and pumping station functionality and need to be replaced.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2025	686,000	686,000	0														
	<b>686,000</b>	<b>686,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 686,000																

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2025	TBD	Karin Pratte	Dec 31, 2025

<b>Number:</b>	4327FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Station 2 and 3 Asphalt Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	FIRE DEPARTMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of the asphalt tarmacs and parking areas at Fire Station 2 and Fire Station 3.	The asphalt at Fire Station 2 and 3 is original to the stations and have exceeded their useful lives (46 and 44 years old, respectively). In order to increase functionality of the area, the asphalt tarmacs and parking areas must be replaced.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																					
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>155,000</td> <td>155,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>155,000</b></td> <td><b>155,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 155,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	155,000	155,000	0		<b>155,000</b>	<b>155,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 155,000</b>		<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>155,000</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>155,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>155,000</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>155,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3425	CONSTRUCTION CONTRACT	155,000	<b>Total Expense:</b>		<b>155,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	155,000	<b>Total Revenue:</b>		<b>155,000</b>
Budget Year	Total Expense	Total Revenue	Difference																																			
2023	155,000	155,000	0																																			
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0461	TSF FRM REV FUND-PAYGO	155,000																																				
<b>Total Revenue:</b>		<b>155,000</b>																																				

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	40 Years	Jason Whiteley	Dec 31, 2023

<b>Number:</b>	4328FD	<b>Scenario:</b>	Main
<b>Title:</b>	HVAC Upgrades at Fire Station 1	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	FIRE DEPARTMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of the current hardware and software on the HVAC system at Fire Station 1.	<p>The current technology for the HVAC system operation at Fire Station 1 will no longer work with the newest operating systems.</p> <p>The upgrade would replace the field controllers with new BACnet communication models and then install new front end graphical user interface. This would allow all the sites to be connected to one server and allow easier access. The upgrade would use an AI software which has the potential of saving approximately 20% on utility costs.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																					
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Budget Year	Total Expense	Total Revenue	Difference																																			
2023	35,000	35,000	0																																			
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0461	TSF FRM REV FUND-PAYGO	35,000																																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	40 Years	Jason Whiteley	Dec 31, 2023

<b>Number:</b>	4329FD	<b>Scenario:</b>	Main
<b>Title:</b>	Dormitory Upgrades to Fire Stations 1, 2 and 3	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	FIRE DEPARTMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the upgrade of the dormitories for stations 1, 2, and 3 to provide a supportive and healthy workplace that is welcoming to all gender identities.	In order to provide a supportive and healthy workplace that is welcoming to all gender identities, the station dormitories will be upgrades to individual resting vestibules that would provide privacy to the employee.  Through this project, 6 vestibules will be constructed at Fire Station 1, and 3 vestibules, each, at Fire Stations 2 and 3.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																					
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Budget Year	Total Expense	Total Revenue	Difference																																			
2023	80,000	80,000	0																																			
	<b>80,000</b>	<b>80,000</b>	<b>0</b>																																			
<b>LTD Amount: 0</b>		<b>Total Project Cost: 80,000</b>																																				
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<b>Revenue</b>																																						
0461	TSF FRM REV FUND-PAYGO	80,000																																				
<b>Total Revenue:</b>		<b>80,000</b>																																				

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	50 Years	Jason Whiteley	Dec 31, 2023

<b>Number:</b>	4330TR	<b>Scenario:</b>	Main
<b>Title:</b>	Construction of Sidewalks for Transit Routes - Phase 2	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	TRANSIT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
This project is for the construction of new sidewalks to transit stops.	<p>This project will construct new sidewalks to comply with the Municipal Right-of-Way for direct routing of pedestrians to transit stops (approximately 5.2km). This includes connecting existing sidewalks to permit a continuous pedestrian path to established transit stops.</p> <p>Budget includes funding through the Investing in Canada Infrastructure Program.</p> <p>Work in 2023 will be for the preliminary and detailed design.</p> <p>The following sidewalks will be completed:</p> <p>2026/2027 - Stockdale (Airport to Shirreff), Shirreff (Stockdale to existing sidewalk), Norwood (Algonquin to Beattie), and Beattie (Maplewood to Norwood)</p> <p>2028/2029 - Dane (Chapais to Frost), Frost (Dane to Angus), and Albert (Frost to O'Brien)</p> <p>2030/2031 - Oak (Wyld to Main), John (Oak to Main), and Pearce (Greenhill to pipeline)</p> <p>Related projects include 4021TR.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2023		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2023	295,338	295,338	0			
2027	2,419,655	2,419,655	0	3117	DESIGN FEES	295,338
2028	1,533,899	1,533,899	0			
2029	1,645,483	1,645,483	0			
2030	2,179,721	2,179,721	0	0461	TSF FRM REV FUND-PAYGO	78,766
	<b>8,074,096</b>	<b>8,074,096</b>	<b>0</b>	0643	INVESTING IN CANADA (ICIP) - FEDERAL	216,572
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 8,074,096				<b>Total Revenue:</b> 295,338

Related Projects			Operating Impacts	
Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	30 Years	Drew Poeta	Dec 31, 2031

<b>Number:</b>	4331FD	<b>Scenario:</b>	Main
<b>Title:</b>	Next Generation 911 Upgrades	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	FIRE DEPARTMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the upgrade of the current 911 system to the Next Generation 911 system (NG-911).	<p>This initiative is directed by the CRTC and must be implemented by all municipalities by April 2025.</p> <p>NG911 will enhance emergency number services by creating a faster, more resilient system that allows digital information (e.g., voice, photos, videos, text messages) to flow seamlessly from the public, through the 911 network and eventually, directly to first responders.</p> <p>This project is Fire's portion of the initiative which goes alongside the North Bay Police Services. Costs for the initiative have increased post-covid. This project provides for the increased dollars required to complete the project. Remaining dollars can be found in the existing capital project 6531FD - Fire Equipment Replacement 2020 On-going.</p> <p>Related projects include 6531FD.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																					
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Budget Year	Total Expense	Total Revenue	Difference																																			
2023	42,505	42,505	0																																			
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	<b>Total Expense:</b>	<b>42,505</b>																																				
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0461	TSF FRM REV FUND-PAYGO	42,505																																				
	<b>Total Revenue:</b>	<b>42,505</b>																																				

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	50 Years	Jason Whiteley	Dec 31, 2023



<b>Number:</b>	4333PR	<b>Scenario:</b>	Main
<b>Title:</b>	Arts Community – Operation Action Plan	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
This project provides for the funding to develop an action plan to determine the operational steps and implementation strategy for the creation of an Arts and Culture Community Centre within the City of North Bay.		An Arts and Culture Community Centre has been a long-standing vision for the creative sector within the City of North Bay. Investigative work has been done throughout the years to identify potential locations, services, organizations, and overall impact to the community.  Building on community support and investment through the private and non-profit sectors, the next steps are to develop an action plan and detailed budget to conceptualize, implement, and operationalize the vision of the Arts and Culture Community Centre.	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	50,000	50,000	0
	<b>50,000</b>	<b>50,000</b>	<b>0</b>
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 50,000	
		<b>GL Account</b>	<b>Description</b>
		<b>Expense</b>	<b>Total Amount</b>
		3425	CONSTRUCTION CONTRACT
			50,000
		<b>Total Expense:</b>	<b>50,000</b>
		<b>Revenue</b>	
		0461	TSF FRM REV FUND-PAYGO
			50,000
		<b>Total Revenue:</b>	<b>50,000</b>
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2023	Jan 1, 2023	TBD	Bryan Kimber
			<b>Completion Date</b>
			Dec 31, 2023

<b>Number:</b>	4334ST	<b>Scenario:</b>	Main
<b>Title:</b>	Storm Sewer Rehabilitation	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project provides for the engineering and construction services to rehabilitate storm sewers in the City that are in a poor condition.</p> <p>Engineering services will include contract drawings, specifications, tendering and construction.</p>	<p>There are a number of storm sewers at or nearing the end of their service life with critical deficiencies and risk of failure. The mitigation measures will include both repair works to current deficiencies and proactive works to prevent the further deterioration and failure of the highest risk storm sewers.</p> <p>Storm sewer condition assessments will be performed through capital project 4316ST - Storm Sewer Condition Assessment.</p> <p>Related projects include 4316ST and 6750ST.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,940,000</b>															

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2026	TBD	Adam Lacombe	Dec 31, 2026

<b>Number:</b>	4335GG	<b>Scenario:</b>	Main
<b>Title:</b>	Administration and Overhead	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - General Government	<b>Project Type:</b>	GENERAL GOVERNMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides funding for the administration and overhead costs incurred to manage and administer the capital budget.	This project includes the costs related to providing administrative support to the various capital projects; including, personnel costs, software licensing, asset management oversight, and credit rating review costs.  In past years, the administration and overhead expense was allocated to each individual project.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																																		
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2023	Jan 1, 2023	N/A	Margaret Karpenko	Dec 31, 2023

<b>Number:</b>	4336GG	<b>Scenario:</b>	Main
<b>Title:</b>	Asset Management Transition	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability,...
<b>Division:</b>	Capital - General Government	<b>Project Type:</b>	GENERAL GOVERNMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides funds to implement the City's Asset Management Plan in order to meet legislative requirements as well as to assist in financing policy changes.	Council approved the updated Asset Management Plan (AMP) in 2022. This AMP addresses the core infrastructure assets, which includes roads, bridges and culverts, stormwater management, and water and wastewater distribution and plants. This plan identified an annual funding shortfall of \$27.4 million in order to replace existing infrastructure assets.  This project will assist with the implementation of the AMP and support changes to financing policies.  Related projects include 4336SS, 4336WS

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	Margaret Karpenko	Dec 31, 2032

<b>Number:</b>	4336SS	<b>Scenario:</b>	Main
<b>Title:</b>	Asset Management Transition	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides funds to implement the City's Asset Management Plan in order to meet legislative requirements as well as to assist in financing policy changes.	<p>Council approved the updated Asset Management Plan (AMP) in 2022. This AMP addresses the core infrastructure assets, which includes roads, bridges and culverts, stormwater management, and water and wastewater distribution and plants. This plan identified an annual funding shortfall of \$27.4 million in order to replace existing infrastructure assets.</p> <p>This project will assist with the implementation of the AMP and support changes to financing policies.</p> <p>Related projects include 4336GG, 4336WS</p>

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2023	Jan 1, 2023	TBD	Margaret Karpenko	Dec 31, 2032

<b>Number:</b>	4336WS	<b>Scenario:</b>	Main
<b>Title:</b>	Asset Management Transition	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																												
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Budget Year	Total Expense	Total Revenue	Difference																																										
2024	22,000	22,000	0																																										
2025	104,000	104,000	0																																										
2026	7,000	7,000	0																																										
2027	113,000	113,000	0																																										
2028	112,000	112,000	0																																										
2029	12,000	12,000	0																																										
2030	41,000	41,000	0																																										
2031	158,000	158,000	0																																										
	<b>569,000</b>	<b>569,000</b>	<b>0</b>																																										
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 569,000																																												

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2024	TBD	Margaret Karpenko	Dec 31, 2032

<b>Number:</b>	4337SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Structural Repair	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for design and construction related to structural repairs required at the Wastewater Treatment Plant in accordance with recommendations outlined in the 2011 condition assessment.	The Wastewater Treatment Plant has many concrete tanks that are used for process treatment streams. The tanks are between 40-65 years old and their structural integrity is diminishing. All exposed concrete elements of the tanks show a great deal of cracking in the walls. The tanks' expansion joints are generally in poor condition and overgrown with vegetation in some locations. The concrete must be repaired before further damage and/ or leaking occurs. Repairs to the secondary and aeration tanks are to occur in 2023/ 2024.  Prior work was done through capital project 3829SS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																					
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2023</td> <td>1,756,000</td> <td>1,756,000</td> <td>0</td> </tr> <tr> <td>2024</td> <td>490,000</td> <td>490,000</td> <td>0</td> </tr> <tr> <td>2028</td> <td>686,000</td> <td>686,000</td> <td>0</td> </tr> <tr> <td>2029</td> <td>882,000</td> <td>882,000</td> <td>0</td> </tr> <tr> <td>2031</td> <td>1,372,000</td> <td>1,372,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>5,186,000</b></td> <td><b>5,186,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 1,535,839</td> <td colspan="2"><b>Total Project Cost:</b> 6,721,839</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	1,756,000	1,756,000	0	2024	490,000	490,000	0	2028	686,000	686,000	0	2029	882,000	882,000	0	2031	1,372,000	1,372,000	0		<b>5,186,000</b>	<b>5,186,000</b>	<b>0</b>	<b>LTD Amount:</b> 1,535,839		<b>Total Project Cost:</b> 6,721,839		<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>3425</td> <td>CONSTRUCTION CONTRACT</td> <td>1,756,000</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>1,756,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>1,756,000</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>1,756,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3425	CONSTRUCTION CONTRACT	1,756,000	<b>Total Expense:</b>		<b>1,756,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	1,756,000	<b>Total Revenue:</b>		<b>1,756,000</b>
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2013	Jan 1, 2023	TBD	Karin Pratte	Dec 31, 2031

<b>Number:</b>	4401RD	<b>Scenario:</b>	Main
<b>Title:</b>	Sage Rd. Reconstruction to Collector Standard	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The program involves the engineering and construction services for the reconstruction of the above-ground and underground infrastructure and to upgrade Sage Road to a proper collector standard.</p> <p>Engineering services will include an environmental assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>Sage Road was originally constructed as a semi-urban collector (included ditches). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>Sage Road is a primary collector route for the Birchaven area, and the upgrades will improve the roadway drainage (which will result in a pavement structure with a longer service life), and will also provide improved pedestrian facilities and safety (currently only a portion of the roadway has a separated sidewalk, while the balance has a paved shoulder sidewalk).</p> <p>Related projects include 4401SS/ST/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2028	245,000	245,000	0																		
2031	3,835,290	3,835,290	0																		
	<b>4,080,290</b>	<b>4,080,290</b>	<b>0</b>																		
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 4,080,290																				

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2028	25 Years	Adam Lacombe	Dec 31, 2032



<b>Number:</b>	4401SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sage Rd. Reconstruction to Collector Standard	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The program involves the engineering and construction services for the reconstruction of the above-ground and underground infrastructure and to upgrade Sage Road to a proper collector standard.</p> <p>Engineering services will include an environmental assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>		<p>Sage Road was originally constructed as a semi-urban collector (included ditches). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>Sage Road is a primary collector route for the Birchaven area, and the upgrades will improve the roadway drainage (which will result in a pavement structure with a longer service life), and will also provide improved pedestrian facilities and safety (currently only a portion of the roadway has a separated sidewalk, while the balance has a paved shoulder sidewalk).</p> <p>Related projects include 4401RD/ST/WS.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2028	19,600	19,600	0
2031	882,000	882,000	0
	<b>901,600</b>	<b>901,600</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 901,600		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2021	Jan 1, 2028	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2032

<b>Number:</b>	4401ST	<b>Scenario:</b>	Main
<b>Title:</b>	Sage Rd. Reconstruction to Collector Standard	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The program involves the engineering and construction services for the reconstruction of the above-ground and underground infrastructure and to upgrade Sage Road to a proper collector standard.</p> <p>Engineering services will include an environmental assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>Sage Road was originally constructed as a semi-urban collector (included ditches). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>Sage Road is a primary collector route for the Birchaven area, and the upgrades will improve the roadway drainage (which will result in a pavement structure with a longer service life), and will also provide improved pedestrian facilities and safety (currently only a portion of the roadway has a separated sidewalk, while the balance has a paved shoulder sidewalk).</p> <p>Related projects include 4401RD/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2028	88,200	88,200	0																		
2031	1,274,000	1,274,000	0																		
	<b>1,362,200</b>	<b>1,362,200</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,362,200</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4401WS	<b>Scenario:</b>	Main
<b>Title:</b>	Sage Rd. Reconstruction to Collector Standard	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The program involves the engineering and construction services for the reconstruction of the above-ground and underground infrastructure and to upgrade Sage Road to a proper collector standard.</p> <p>Engineering services will include an environmental assessment (EA), preliminary and detailed design, agency approvals, contract drawings, specifications, tendering and construction technical assistance.</p>	<p>Sage Road was originally constructed as a semi-urban collector (included ditches). The City Capital Works Program has targeted upgrading of the City's arterial roads as a primary objective. As most of the arterial routes have been addressed, the collector and bus routes are the secondary priority to be addressed.</p> <p>Sage Road is a primary collector route for the Birchaven area, and the upgrades will improve the roadway drainage (which will result in a pavement structure with a longer service life), and will also provide improved pedestrian facilities and safety (currently only a portion of the roadway has a separated sidewalk, while the balance has a paved shoulder sidewalk).</p> <p>Related projects include 4401RD/ST/SS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2028	58,800	58,800	0																		
2031	882,000	882,000	0																		
	<b>940,800</b>	<b>940,800</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 940,800</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2014	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4402SS	<b>Scenario:</b>	Main
<b>Title:</b>	Chippewa Trunk Sewer Major Rehabilitation & Replacement	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the upgrading, rehabilitation, and/or reconstruction of the Chippewa Trunk Sewer. Engineering services will include preliminary and detailed design, agency approvals, contract drawings, specifications, tendering, and construction technical assistance.</p> <p>A detailed condition assessment will be included to identify the needs, as well as an analysis to determine if there are any potential capacity deficiencies that may require up-sizing. The final works will include a combination of rehabilitation and replacement.</p>	<p>The trunk sewer was originally constructed in the 1970s and will be due for major maintenance and rehabilitation work. The Chippewa Trunk Sewer is the main trunk sewer and one of the most critical components of the City's sanitary sewer system.</p> <p>A number of other trunk sewers flow in the Chippewa system, including the Canadore, Oak Street, Oak Street relief, and Sage trunk sewer. Failure of the Chippewa Trunk Sewer could impact a significant portion of the network. The works will likely be undertaken in multiple phases.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																								
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Budget Year	Total Expense	Total Revenue	Difference																						
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,626,000</b>																							

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2015	Jan 1, 2024	25 Years	Adam Lacombe	Dec 31, 2027

<b>Number:</b>	4500RD	<b>Scenario:</b>	Main
<b>Title:</b>	Franklin & John Trunk Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project provides for the engineering and construction services for the installation of a new 400mm trunk watermain along Franklin Street and John Street.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a new trunk watermain along Sage Road, Seymour Street, Franklin Street, and John Street will provide better distribution of flows and reinforcement of the Zone 1 distribution system. A major portion of the Seymour component is included in projects 3700RD/ST/SS/WS. Also, a portion on Sage Road (Rita Road to Shallot Crescent) was previously completed internally by Public Works resources.</p> <p>Related projects include 4500ST/SS/WS and 3700RD/ST/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																								
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Budget Year	Total Expense	Total Revenue	Difference																						
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 5,576,200</b>																							

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4500SS	<b>Scenario:</b>	Main
<b>Title:</b>	Franklin & John Trunk Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project provides for the engineering and construction services for the installation of a new 400mm trunk watermain along Franklin Street and John Street.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a new trunk watermain along Sage Road, Seymour Street, Franklin Street, and John Street will provide better distribution of flows and reinforcement of the Zone 1 distribution system. A major portion of the Seymour component is included in projects 3700RD/ST/SS/WS. Also, a portion on Sage Road (Rita Road to Shallot Crescent) was previously completed internally by Public Works resources.</p> <p>Related projects include 4500RD/ST/WS and 3700RD/ST/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2021	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4500ST	<b>Scenario:</b>	Main
<b>Title:</b>	Franklin & John Trunk Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project provides for the engineering and construction services for the installation of a new 400mm trunk watermain along Franklin Street and John Street.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a new trunk watermain along Sage Road, Seymour Street, Franklin Street, and John Street will provide better distribution of flows and reinforcement of the Zone 1 distribution system. A major portion of the Seymour component is included in projects 3700RD/ST/SS/WS. Also, a portion on Sage Road (Rita Road to Shallot Crescent) was previously completed internally by Public Works resources.</p> <p>Related projects include 4500RD/SS/WS and 3700RD/ST/SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2032

<b>Number:</b>	4500WS	<b>Scenario:</b>	Main
<b>Title:</b>	Franklin & John Trunk Watermain	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project provides for the engineering and construction services for the installation of a new 400mm trunk watermain along Franklin Street and John Street.</p> <p>Engineering services will include survey, design, agency approvals, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>The need was identified in the 2008 Infrastructure Background Study that was prepared in support of the Official Plan update. Installation of a new trunk watermain along Sage Road, Seymour Street, Franklin Street, and John Street will provide better distribution of flows and reinforcement of the Zone 1 distribution system. A major portion of the Seymour component is included in projects 3700RD/ST/SS/WS. Also, a portion on Sage Road (Rita Road to Shallot Crescent) was previously completed internally by Public Works resources.</p> <p>Related projects include 4500RD/ST/SS and 3700RD/ST/SS/WS.</p>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2016	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2032



<b>Number:</b>	6483AA	<b>Scenario:</b>	Main
<b>Title:</b>	Cassellholme Redevelopment	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	GENERAL GOVERNMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides support for the redevelopment of Cassellholme East Nipissing District Home for the Aged and the proposal for the Board of Management to borrow the funds necessary to complete the project.	Cassellholme will be financing the redevelopment using a combination of capital subsidy payments by the Ministry of Health and Long-Term Care and annual levy to the participating municipalities. This project represents the City of North Bay's estimated share of the redevelopment and is subject to change based on the start date, Ministry's approvals, and final financing agreements.

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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2019	Jan 1, 2021	N/A	Margaret Karpenko	Dec 31, 2056

<b>Number:</b>	6692RD	<b>Scenario:</b>	Main
<b>Title:</b>	City Share of Development Costs 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project provides a funding source to enable the City to respond to development requests. The City contributes towards items such as infrastructure upsizing and extensions, as well as off-site road network improvements.</p>	<p>These works are considered a priority and are vital to the City's support of development and growth.</p> <p>The budgeted amounts represent an allowance for unknown and unforeseen costs for roadway and underground infrastructure works related to new development. This could include a requirement by the City for a new subdivision road to be a Collector standard, or a sewer to be upsized to a trunk sewer diameter. Current practice is that the developer would only be responsible to cover the costs to meet the minimum standard and the City would cover the additional cost to upgrade to a higher standard.</p> <p>These projects generally provide for future growth.</p> <p>Related projects include 6692WS.</p>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	6692WS	<b>Scenario:</b>	Main
<b>Title:</b>	City Share of Development Costs 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project provides a funding source to enable the City to respond to development requests. The City contributes towards items such as infrastructure upsizing and extensions, as well as off-site road network improvements.</p>	<p>These works are considered a priority and are vital to the City's support of development and growth.</p> <p>The budgeted amounts represent an allowance for unknown and unforeseen costs for roadway and underground infrastructure works related to new development. This could include a requirement by the City for a new subdivision road to be a Collector standard, or a sewer to be upsized to a trunk sewer diameter. Current practice is that the developer would only be responsible to cover the costs to meet the minimum standard and the City would cover the additional cost to upgrade to a higher standard.</p> <p>These projects generally provide for future growth.</p> <p>Related projects include 6692RD.</p>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	6693RD	<b>Scenario:</b>	Main
<b>Title:</b>	Asphalt Resurfacing 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project provides for the engineering and construction services for the annual resurfacing program.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p> <p>The project is an on-going annual program to maintain and/or restore the riding surface of the urban city streets. The project utilizes a variety of techniques for maintenance of the roadway and protection of the asset. Works may involve asphalt grinding, pulverization, recycling, crack sealing, base stabilization, drainage improvements, curb restoration and boulevard restoration in addition to cold-in-place or hot-mix asphalt paving.</p>	<p>The maintenance of the road surface is of primary importance to the community. The annual program extends the life of our roads, reduces annual maintenance costs, and provides a continued level of service.</p> <p>In accordance with the City's Asset Management Plan, the condition of the City's roads will be monitored and analyzed on an on-going basis to determine and confirm prioritization with respect to the needs of the overall road and infrastructure network, and which works represent the best value. To assist with the prioritization, the City's Pavement Management Software and the results of the Pavement Quality Inspection performed in 2021 will be utilized.</p> <p>The project is partially funded using the Canada Community - Building Fund (Formerly the Federal Gas Tax Fund).</p>

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2023	Jan 1, 2023	TBD	Reid Porter	Dec 31, 2023

<b>Number:</b>	6694RD	<b>Scenario:</b>	Main
<b>Title:</b>	Asphalt Sheeting 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for an on-going program designed to address localized serious deficiencies in asphalt paving that arise suddenly and pose serious risk to drivers and can lead to more serious issues.	The sudden onsets of these deficiencies are not identified in the resurfacing budget but do warrant immediate repair to limit liability and prevent further damage.

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6695WS	<b>Scenario:</b>	Main
<b>Title:</b>	Watermain Rehab and Restoration 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the on-going upgrades and rehabilitation of the water system and is designed to eliminate single point failures and redundancies in the water distribution network.	The 2023 program will fund the installation of new watermain on Aviation Ave., resulting in the servicing of additional industrial lands as well as providing a second watermain feed to the heliport and the Canadore College aviation campus.

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	30 to 75 Years	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6696RD	<b>Scenario:</b>	Main
<b>Title:</b>	Pedestrian Safety Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for an on-going capital program for the replacement of deteriorated sidewalks and the addition of new sidewalks and other safety facilities; such as, pedestrian activated signals and count down pedestrian heads.	<p>The project will assist the City to maintain compliance with the Accessibility Act and maintain compliance with the Minimum Maintenance Standards of Ontario.</p> <p>Funds from this project are utilized to complete the annual sidewalk inspection and installation of new sidewalks to enhance pedestrian safety in areas where none previously existed.</p> <p>The 2023 program will include Phase 2 of the installation of new sidewalks on Pinewood Rd. to enhance public safety around the recently constructed Pinewood School.</p> <p>Related projects include 6741ST.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																					
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6697RD	<b>Scenario:</b>	Main
<b>Title:</b>	Road Culvert Replace/Rehab 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for an on-going capital program that is designed to provide for replacement and rehabilitation of culverts located along rural roadways where no other drainage system is in place. It is essential for maintaining and extending the life cycle of our rural roadways. The project also works in conjunction with the rural road rehabilitation program.	The 2023 program will replace the culverts on Feronia Rd. and Northshore Rd. Both rural roads will be reconstructed through the rural road rehabilitation program in 2023. Related projects include 6698RD.

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	25 to 75 Years	Domenic Schiavone	Dec 31, 2023



<b>Number:</b>	6698RD	<b>Scenario:</b>	Main
<b>Title:</b>	Rural Road Rehab 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the on-going reconstruction, repair, and resurfacing of our rural roads. It also involves the crushing of stockpiled waste asphalt for use in the resurfacing process.	Sections of Feronia Rd. and Northshore Rd. are at the end of their lifecycle and require reconstruction. The 2023 program will be used for the reconstruction of these sections of Feronia Rd. and Northshore Rd. The culverts along these roads will also be replaced as a part of the road culvert replacement/ rehabilitation program.  Related projects include 6697RD.

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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	25 Years	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6699SL	<b>Scenario:</b>	Main
<b>Title:</b>	Traffic Control Signal Upgrade 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Technology
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STREET LIGHTS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for an on-going program of traffic control signals upgrades throughout the City and is used in conjunction to assist the City in maintaining compliance with the Accessibility Act.	In 2023, the program will continue with traffic cabinet replacements, upgrade additional intersections to utilize detection cameras, upgrade signals to audible systems for accessibility standards and install networking software for a central control system.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	25 Years	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6700RD	<b>Scenario:</b>	Main
<b>Title:</b>	Sidewalk Replacement Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for an on-going capital program that performs an annual survey of all the City's sidewalks to identify deficiencies as outlined under the Minimum Maintenance Standards of Ontario. Project funds are also used to conduct sidewalk replacement of sections identified in the annual survey and/or patch smaller sections.	The 2023 program will provide for a third party inspection survey of the City's sidewalks which will identify a list of sidewalks that will require replacement. Sidewalks that will be considered for replacement will be those where a full block was identified as having numerous deficiencies and will require complete replacement.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6701RD	<b>Scenario:</b>	Main
<b>Title:</b>	Bridge Rehab 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This program provides for bridge related rehabilitation repairs for minor deficiencies in the City's bridges, pedestrian bridges, and major culverts to capture additional life expectancy and maintain service to the public. There are currently more than 100 structures being maintained through this funding.</p>	<p>These works are considered a critical priority in order to provide safety to the public which can include the rehabilitation of certain components of the bridge or its surroundings to extend its service life; such as, concrete patch repairs, guide rail repairs, asphalt, and sidewalk repairs, etc.</p> <p>This project also involves the annual bridge inspection program. Municipalities are regulated to inspect every bridge structure once every two years. The City contracts out these services to an engineering firm that will do the inspections and provide a report of the findings and recommendations for work, as well as identifying any critical issues warranting immediate attention.</p> <p>In 2023, this program will provide for the biannual bridge inspections.</p>

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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Reid Porter	Dec 31, 2023

<b>Number:</b>	6702RD	<b>Scenario:</b>	Main
<b>Title:</b>	Downtown Roads Maintenance 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for an on-going program of downtown roads maintenance and upgrades.	The 2023 program will include the continuing upgrades to roads, line painting, traffic signals, and sidewalks in the downtown core.

<b>Scenario Description</b>	<b>Scenario Comments</b>

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2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6703PK	<b>Scenario:</b>	Main
<b>Title:</b>	Parking Equipment Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	PARKING
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the purchase of parking equipment; such as, parking meters, pay and display machines and maintenance equipment to support parking operations.	The City has various parking equipment throughout the City that will need to be replaced. This program is funded every 3 years. The next budget ask is in 2025.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2025	5 to 15 Years	Kevin Vescio	Dec 31, 2025

<b>Number:</b>	6704RF	<b>Scenario:</b>	Main
<b>Title:</b>	Pete Palangio Rehab Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	RECREATION FACILITY
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for continued plant and property improvements for the Pete Palangio Arena as per Industry Accepted Practices and Processes as well as operational and programming requirements.	In 2023, this on-going program provides for the renewal of electrical service equipment at the Pete Palangio Arena.

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	David Jackowski	Dec 31, 2023

<b>Number:</b>	6705MR	<b>Scenario:</b>	Main
<b>Title:</b>	King's Landing and Marina Rehab Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	MARINA
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation of King's Landing and the Marina's buildings and appurtenances.	In 2023, the project will include the marina building envelope, entrance gate renewal, and a communal dock.  The project does not include any significant general maintenance of King's Landing beyond 2025 except for emergency repairs pending the reconstruction and redevelopment as described in project 3518PR.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2024 to 2032: 2024 Marina dredge // chains replacement // dock connections 2025 Gas dock and shoreline sheet piling // general rehabilitation 2026 Fuel tank inspection // fuel dispenser replacement // fuel tank monitor upgrade 2027 Launch ramp and dock replacement // Chief Commanda slip dredge 2028 Break wall dock and main dock replacement 2029 Dock rehabilitation and replacement 2030 Dock replacement // general rehabilitation 2031 Pedestal renewals // dock replacement 2032 Dock replacement // general rehabilitation

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2023	Jan 1, 2023	TBD	Kevin Vescio	Dec 31, 2023



<b>Number:</b>	6707RF	<b>Scenario:</b>	Main
<b>Title:</b>	Recreation Facilities Rehab and Development 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	RECREATION FACILITY
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation of the outdoor sport facilities to maintain safe playing areas for the public and for the development of recreation facilities based on programming needs and future recreation trends.	In 2023, this program includes the installation of protective safety netting between the Veterans Baseball Field and Soccer Field, and general sports field turf and baseball infield rehabilitation.  Council has approved an updated Parks Master Plan on November 16, 2021 as per Community Services Committee Report 2021-16.  Recreation facilities development projects will be determined based on the recommendations included in the 2021 Parks Master Plan and the City's Official Plan.

<b>Scenario Description</b>	<b>Scenario Comments</b>

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2023	Jan 1, 2023	TBD	Dave Schroeder	Dec 31, 2023

<b>Number:</b>	6708RF	<b>Scenario:</b>	Main
<b>Title:</b>	Omischl Sports Complex Rehab Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	RECREATION FACILITY
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation of the Omischl Sports Field Complex to maintain safe playing areas for the public per operational and programming needs.	In 2023 this program includes fencing, landscaping, and turf rehabilitation.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	20 Years	Dave Schroeder	Dec 31, 2023

<b>Number:</b>	6709PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks and Playground Rehab Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation and upgrades to the City's parks and playgrounds to meet current standards and programming requirements and it provides for the management and preservation of the natural environment.	In 2023, this program includes the replacement of Belleview playground and related landscaping, as well as park rehabilitation, tree planting, and other general rehabilitation.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	20 Years	Dave Schroeder	Dec 31, 2023

<b>Number:</b>	6710PR	<b>Scenario:</b>	Main
<b>Title:</b>	Waterfront Rehab Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation to the waterfront park land. The program includes the rehabilitation of turf, trees, beaches, trails, walkways, furnishings, lighting, the bench program, and parking lots.	In 2023, this ongoing program includes replacing the underground wire to pedestal lights, sand erosion fencing, and tree planting.

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2023	Jan 1, 2023	TBD	Dave Schroeder	Dec 31, 2023

<b>Number:</b>	6711PR	<b>Scenario:</b>	Main
<b>Title:</b>	Central City Rehab Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation of the following park locations: the Civic Plaza, City Hall, Waterfront Park, Ferguson Block parkette, Algonquin Streetscape, Memorial Park, Algonquin Regiment Cenotaph, Main Street flowerbeds and planters.	In 2023, this ongoing program will be used to replace the deteriorating sections of the interlocking brick of the pedestrian underpass that links the downtown improvement area and the waterfront. This brick along this walkway has experienced premature deterioration caused by salt and weather corrosion and will be replaced with asphalt or concrete.

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2023	Jan 1, 2023	TBD	Dave Schroeder	Dec 31, 2023

<b>Number:</b>	6712PR	<b>Scenario:</b>	Main
<b>Title:</b>	City Hall Grounds Rehab Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation of the City Hall grounds. The program includes retaining walls, hard surfaces (sidewalks, stairs, parking lots), landscaping (turf, trees, shrubs, irrigation), furnishings (benches, picnic tables, waste receptacles, and bike racks) and lighting.	In 2023, this on-going program includes hard surface rehabilitation, landscaping, furnishing and general rehabilitation of City Hall grounds.

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Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	David Jackowski	Dec 31, 2023

<b>Number:</b>	6713PR	<b>Scenario:</b>	Main
<b>Title:</b>	Trail and Supporting Hard Surfaces Rehab 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation of 20+ kilometers of multi-use hard surface trails, parks pathways, nature trails, sidewalks, parking lots, service roads and boat launches.	In 2023, this ongoing program includes resurfacing of the Kate Pace Way and Kinsmen Trail, improvements to paths and parking lots to increase accessibility, and general rehabilitation. An assessment will be performed in the spring to determine which areas need to be resurfaced.

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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Dave Schroeder	Dec 31, 2023

<b>Number:</b>	6714PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks Equipment Replacement Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the Parks equipment replacement that is not included in the Fleet Management system and upgrades of parks amenities.	The program ensures that reliable equipment is available to assist the department's maintenance and programming demands.  In 2023, this program provides for the addition of water tanks/ trailer to support the increased demand on the Parks water trailer.

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2023	Jan 1, 2023	TBD	Dave Schroeder	Dec 31, 2023



<b>Number:</b>	6715RF	<b>Scenario:</b>	Main
<b>Title:</b>	Aquatic Centre Rehab Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	RECREATION FACILITY
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for the rehabilitation and enhancements of North Bay's Aquatic Centre as per the Lifecycle Plan.	In 2023, this on-going program includes the replacement of the fire alarm control panel, as well as, the funding to investigate the methods to repair and replace the pool deck tiles. Pool deck tiles expected to be repaired and replaced in 2024.

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	10 to 30 Years	Kevin Vescio	Dec 31, 2023

<b>Number:</b>	6716PK	<b>Scenario:</b>	Main
<b>Title:</b>	Parking Lot Maintenance and Improvement Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	PARKING
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for the on-going improvements and maintenance of parking lots and facilities including lighting, asphalt replacement, drainage, etc.	<p>The program includes on-going maintenance of all surface lots and the parking garage.</p> <p>Improvements to surface lots include items such as, the rehabilitation and maintenance of asphalt surfaces, guardrails, lighting and storm water systems. Improvements to the parking garage include items such as, asphalt and waterproofing membrane surface maintenance, concrete structural maintenance, water drainage systems, lighting, stairwell maintenance and painting.</p> <p>In 2023, the program will provide for the repair of guard rails, lighting fixtures, controls, signs, bumpers, fencing, storm water infrastructure, as well as, line painting, crack sealing, surface sealing treatments, and condition assessments of several parking lots within the City.</p>

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Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	Bruce Robertson	Dec 31, 2023

<b>Number:</b>	6717TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit Buildings Capital Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	TRANSIT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the required annual upgrades and repairs to the transit terminal, bus shelters/ canopies, bus barn and bus wash facilities.	In 2023, this project includes emergency repairs to the transit terminal, bus wash, bus barn and bus shelters/ canopies.

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2023	Jan 1, 2023	TBD	Drew Poeta	Dec 31, 2023

<b>Number:</b>	6718GG	<b>Scenario:</b>	Main
<b>Title:</b>	City Hall Building Rehab 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	GENERAL GOVERNMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for on-going maintenance, repairs and improvements to City Hall; including but not limited to, window maintenance and repairs, flooring replacement, roof safety guards and ladder system installation identified as a safety concern, and washroom upgrades. Changing priorities could impact the schedule. This does not include upgrades for accessibility purposes.	In 2023, this on-going program includes for the replacement of windows and fire alarm control panel, as well as, modifications to the HVAC control system; including, HVAC equipment renewals, and investigations to determine future capital repair/ replacement needs.

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Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	David Jackowski	Dec 31, 2023

<b>Number:</b>	6719OC	<b>Scenario:</b>	Main
<b>Title:</b>	Capitol Centre 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	OTHER CULTURAL
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for an on-going program of repairs and maintenance to the Capitol Centre.	The 2023 program includes box office, front of house, and coat check improvements, building security upgrades, HVAC replacement, and building repairs and maintenance.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2024 to 2032: 2024 to 2032 Structural, mechanical and electrical work

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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2023	Jan 1, 2023	N/A	Margaret Karpenko	Dec 31, 2023

<b>Number:</b>	6720PD	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Police Services 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance,...
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	POLICE
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for an on-going program for vehicle replacement and other capital upgrades and replacements for the North Bay Police Services.	The 2023 program includes prisoner van replacements and upfitting, automatic license plate recognition equipment, portable radio replacement, and technology upgrades and replacements.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2024 to 2032: 2024 - Vehicle replacements and upfitting, radio system replacement, building repairs, and technology upgrades 2025 - Vehicle replacements and upfitting, CEW replacement program, building repairs, armoured vehicle, and technology upgrades 2026 - Vehicle replacements and upfitting, CEW replacement program, building repairs, and technology upgrades 2027 - Vehicle replacements and upfitting, CEW replacement program, and technology upgrades 2028 - Vehicle replacements and upfitting, building repairs, and technology upgrades 2029-2030 - Vehicle replacements and upfitting, and technology upgrades 2031-2032 - Vehicle replacements and upfitting, building replacement, and technology upgrades

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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Scott Tod	Dec 31, 2023



<b>Number:</b>	6722SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sewage Lift Stations 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance,...
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for an on-going program for emergency repairs and replacements at the sewage lift stations. Minor improvements to systems are also funded from this project.	The City owns and operates 19 sewage lift stations. Annually it is not uncommon to experience failures in pumps, generators or other critical appurtenances that are not budgeted for with operational dollars. This project is used to cover such emergency failures.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	10 to 15 Years	Domenic Schiavone	Dec 31, 2023



<b>Number:</b>	6726WS	<b>Scenario:</b>	Main
<b>Title:</b>	Water Plant Maintenance 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is to provide for an annual recurring maintenance program to keep the Water Treatment Plant operating within established regulations.	This project includes the maintenance requirements for the Water Treatment Plant, as well as any emergency repairs/ replacements as required during the year. In 2023, this program will be used for the maintenance and repair of the UV system, air handling units, heat recovery units, and pressure reducing valve maintenance, as well as, the replacement of the variable frequency drive and online fluoride analyzer.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	10 to 20 Years	Karin Pratte	Dec 31, 2023

<b>Number:</b>	6727WS	<b>Scenario:</b>	Main
<b>Title:</b>	Watermain Replace/Ream/Reline 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project provides for an on-going program to fund the looping of dead-end watermains which provides a permanent solution for adverse water conditions; such as, dirty water and low chlorine residual.</p> <p>Work will be completed by City staff and equipment.</p>	<p>Dead-end watermains creates an environment for adverse water conditions within the main. These adverse water conditions are currently being mitigated through continuous flushing which does waste water. Looping dead-end watermains provides a permanent solution to the adverse water conditions caused by these dead-ends and also reduces the water waste through continuous flushing.</p> <p>The 2023 program will address three dead-end watermain locations: George St., Duncan Ave., and Vanier St.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	40 to 75 Years	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6728RD	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for preliminary and detailed design engineering work required to enable design and construction of projects planned for the following year.	These works could include pre-engineering activities such as geotechnical investigations and surveying or can include designs for small projects.  The 2023 program will provide for the pre-engineering for the 2024 Asphalt Resurfacing Program.  Related projects include 6728ST/SS/WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																					
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	6728SS	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for preliminary and detailed design engineering work required to enable design and construction of projects planned for the following year.	<p>These works could include pre-engineering activities such as geotechnical investigations and surveying or can include designs for small projects.</p> <p>In 2023, this program will fund the preliminary field and desktop review work for the pumping station and sewer condition assessments.</p> <p>Related projects include 6728RD/ST/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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2023	Jan 1, 2023	TBD	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	6728ST	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for preliminary and detailed design engineering work required to enable design and construction of projects planned for the following year.	These works could include pre-engineering activities such as geotechnical investigations and surveying or can include designs for small projects.  The 2023 program will provide for the pre-engineering for the 2024 Asphalt Resurfacing Program.  Related projects include 6728RD/SS/WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	6728WS	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for preliminary and detailed design engineering work required to enable design and construction of projects planned for the following year.	These works could include pre-engineering activities such as geotechnical investigations and surveying or can include designs for small projects.  In 2023, this program will fund the preliminary field and desktop review work for watermain condition assessments.  Related projects include 6728RD/ST/SS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	6729RF	<b>Scenario:</b>	Main
<b>Title:</b>	Memorial Gardens Rehab 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	RECREATION FACILITY
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
This project provides for continued rehabilitation and improvement of plant and property for the Memorial Gardens Arena per Industry Best Practices as well as operational and programming requirements.		In 2023, this on-going program includes the replacement of the existing chiller and condenser, which are approaching the end of their useful lives, as well as, investigation into the purchase of new ice plan technology at Memorial Gardens.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>				<b>Project Detailed 2023</b>		
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>	<b>GL Account</b>	<b>Description</b>	<b>Total Amount</b>
2023	294,000	294,000	0	<b>Expense</b>		
2024	294,000	294,000	0	3425	CONSTRUCTION CONTRACT	294,000
2025	220,652	220,652	0			<b>Total Expense: 294,000</b>
2026	245,169	245,169	0	<b>Revenue</b>		
2027	269,686	269,686	0	0461	TSF FRM REV FUND-PAYGO	294,000
2028	294,203	294,203	0			<b>Total Revenue: 294,000</b>
2029	294,203	294,203	0			
2030	294,203	294,203	0			
2031	294,203	294,203	0			
2032	294,203	294,203	0			
	<b>2,794,522</b>	<b>2,794,522</b>	<b>0</b>			
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 2,794,522					

<b>Related Projects</b>		<b>Operating Impacts</b>	

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	20 Years	David Jackowski	Dec 31, 2023

<b>Number:</b>	6730FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Facilities Management Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	FIRE DEPARTMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides funds for the maintenance and repairs on the four fire stations in the City.	The program includes interior rehabilitation of fire stations and energy efficiency upgrades; which will include, overhead and main door replacement, energy efficient upgrades (lighting), and replacement of windows.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The Capital Forecasts from 2024 to 2032 will be used to address major capital costs associated with aging infrastructure. The funds will also be used to repair/ replace major building items as well as improve the station's energy efficiencies. Plans for building repairs or energy efficiency upgrades are developed a year in advance of the budget based on information derived from station maintenance reports.

<b>Forecast</b>	<b>Project Detailed 2023</b>																																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2024	10 to 20 Years	Jason Whiteley	Dec 31, 2024



<b>Number:</b>	6731WS	<b>Scenario:</b>	Main
<b>Title:</b>	Flush Watermains 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the on-going annual directional and dead-end flushing of the City's watermains. The project is essential in order to extend the watermains' lifecycle and it allows the City to remain compliant with the Ministry of Environment Regulations. Funds are also used for infrastructure upgrades and when system deficiencies are noted.	The on-going program is designed to clean existing watermains thereby extending the lifecycle and identifying problem infrastructure that can then be repaired in non-emergency situations. The program is recommended as a best practice by the Ministry of Environment and Climate Change.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	10 to 20 Years	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6732RD	<b>Scenario:</b>	Main
<b>Title:</b>	Asset Management 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the implementation of asset management initiatives for the City's infrastructure. Work includes maintenance, management, development, and analysis of asset data.	The funding will be used for studies and report development to facilitate decision making and asset management reporting. The funding may also be used for data gathering and condition assessments, as required.  Related projects include 6732WS.

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<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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2023	Jan 1, 2023	TBD	Margaret Karpenko	Dec 31, 2023

<b>Number:</b>	6732WS	<b>Scenario:</b>	Main
<b>Title:</b>	Asset Management 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the implementation of asset management initiatives for the City's infrastructure. Work includes maintenance, management, development, and analysis of asset data.	The funding will be used for studies and report development to facilitate decision making and asset management reporting. The funding may also be used for data gathering and condition assessments, as required.  Related projects include 6732RD.

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2023	Jan 1, 2023	TBD	Margaret Karpenko	Dec 31, 2023

<b>Number:</b>	6733ST	<b>Scenario:</b>	Main
<b>Title:</b>	Storm Sewer Flushing and Outfall Maintenance 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project will allow for cleaning and scraping of large diameter storm sewer systems throughout the City as well as upgrading and maintaining the numerous storm sewer outfalls.	The 2023 program will be utilized to clean and pump out catch basins on storm sewers throughout the City to prevent sediment from accumulating in storm mains.

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2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6734SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant Rehab 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for an on-going program for emergency repairs at the Wastewater Treatment Plant. Minor improvements to systems are also funded from this project.	This project provides funds to support emergency repairs at the Wastewater Treatment Plant.  In 2023, the project will replace the aging return wasting pumps, upgrades to the polymer injection system and the blower system.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the capital forecast for 2024 to 2032: 2025 to 2031 Various repairs and upgrades; such as, the replacement of industrial water lines, sludge feed line, and return lines, the removal of asbestos insulation, rebuild of muffin monster, and valve replacements.

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																					
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2023	Jan 1, 2023	TBD	Karin Pratte	Dec 31, 2023

<b>Number:</b>	6736GG	<b>Scenario:</b>	Main
<b>Title:</b>	System Technology Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Technology
<b>Division:</b>	Capital - Corporate Services	<b>Project Type:</b>	GENERAL GOVERNMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is to provide for the information and communication technology for the Corporation's business units at City Hall and 20 remote site locations. This includes computer hardware and software, mobile technology, telephony hardware and software, network infrastructure and security, Geographic Information Systems and network connectivity.	The project provides for implementation and replacements for the system technology utilization by the City based on cycles and annual requirements.  In 2023, the program includes the replacement and upgrade of workstations, information systems including network, data storage and server infrastructure, telephony and remote communications, wireless printers & peripherals, and security - including hardware and software for improved performance and access to City owned security cameras. This program also provides for audio/ video replacement of presentation devices at City Hall, replacement of non-functioning Heritage Museum display and clock, as well as enhancements to SunGard/Questica/Financial Systems, sensitive data destruction, GIS and other departmental priorities.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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2023	Jan 1, 2023	4 Years	Steven Melnichuk	Dec 31, 2023



<b>Number:</b>	6737AT	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Jack Garland Airport 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	AIR TRANSPORTATION
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is designed to provide for on-going repairs and maintenance at the Jack Garland Airport. The airport prepares a capital plan which indicates the total estimated costs and the amount of funding that is required by the City.	This budget represents the portion of the capital plan that is funded by the City. The 2023 plan includes the replacement of the boiler and controls at the airport terminal building, replacement of vehicles, and repairs to the administration building entrance and parking lot.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2024 to 2032: 2024 - Excavator and brush head replacements // Sander unit replacement // garage life safety system replacement 2025 - Runway 08-26 drainage replacement // Runway 08-26 resurfacing // Apron IV resurfacing // terminal main doors, garage, and gates access controls 2026 - Accessible lift system replacement at administration building // Loader replacement // computers and camera system replacement 2027 - Lights replacements // Foxtrot rehabilitation 2028 - Administration building air handling and air conditioning units // vehicle and equipment replacement 2029 - Replace vehicles and equipment // repair terminal roof 2030 - Replace vehicles and equipment // replace air fan 2031 - Replace vehicles and equipment // replace fuel system // replace wind socks 2032 - Rehabilitate Lot A parking lot // replace vehicles, equipment, lighting, and guidance signs // rehabilitate hanger rooves

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	N/A	John Severino	Dec 31, 2023



<b>Number:</b>	6739FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Equipment Replacement 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance,...
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	FIRE DEPARTMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement the Fire Department's aging equipment as well as the purchase of equipment to outfit new fleet purchases.	Funding is for the replacement of aging equipment and analysis of needed equipment for enhanced and efficient service delivery. Equipment recommendations are researched by the North Bay Fire and Emergency Services equipment committee.  In 2023, this program will provide for the purchase of equipment to outfit a new tanker as well as the maintenance or replacement of the following pieces of equipment: hose, ice water rescue equipment (dry suits, helmets, PFDs), nozzles, extrication equipment, power saws, ventilation fans, self-contained breathing apparatuses, safety equipment (helmets, gloves, etc.), and tools, as needed.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The Capital Forecasts from 2024 to 2032 will be used to address major equipment costs associated with ongoing operations. The funds will be used to repair/ replace equipment necessary for North Bay Fire and Emergency Services to enhance the ability to deliver an effective response to emergency incidents.

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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	5 to 25 Years	Jason Whiteley	Dec 31, 2023

<b>Number:</b>	6740FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Bunker Gear Replacement Program 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	FIRE DEPARTMENT
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides funds to replace bunker gear (firefighting ensemble) for the firefighters. In order to meet the requirements under the Occupational Health and Safety Act, bunker gear is required to be replaced every 10 years as stipulated in NFPA Standard 1851.	The program is based on the anticipated costs for required bunker gear replacements.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	238,525	238,525	0														
	<b>238,525</b>	<b>238,525</b>	<b>0</b>														
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 238,525																

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2026	10 Years	Jason Whiteley	Dec 31, 2026

<b>Number:</b>	6741ST	<b>Scenario:</b>	Main
<b>Title:</b>	Ditch Enclosure 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project will eliminate open ditches in problem areas. Ditch lines would be replaced by a storm sewer system to convey storm water and run-off.	The 2023 program will include elimination of ditches on Pinewood Rd. which will support the installation of sidewalks.  Related projects include 6696RD.

<b>Scenario Description</b>	<b>Scenario Comments</b>

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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	25 to 50 Years	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6743SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Electrical Upgrades 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project will provide electrical upgrades to the Wastewater Treatment Plant.	<p>Many electrical components have passed their useful life and represent a significant risk to the continuous operation of the facility. The funding provides for materials as well as a staff electrician to work on the projects.</p> <p>The staff electrician is also working on other capital and operating projects within the water and wastewater system. Typical projects would include replacing and repairing conduits, MCC's, process controls, SCADA, lighting and various electrical components. In 2023, this project will provide for the replacement of conduit which provides backup power to the blowers, and MCC replacement for return pumps.</p>

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<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																					
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	15 Years	Karin Pratte	Dec 31, 2023

<b>Number:</b>	6745SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant Exterior Rehab 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation and repair of the 11 buildings at the Wastewater Treatment Plant.	Funding in this project will replace fencing, roofs, and brick veneer and to perform landscaping upgrades along the Kate Pace Way and the Wastewater Treatment Plant.  The 2023 program will provide for the replacement of the brick veneer for the administration building.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the capital forecast for 2025 to 2032: 2025 to 2032 General building rehabilitation, brick veneer replacement, paving, and roofing upgrades

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Karin Pratte	Dec 31, 2023

<b>Number:</b>	6746RD	<b>Scenario:</b>	Main
<b>Title:</b>	Public Works Building Maintenance 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is to address emergency repairs and replacements to the public works facilities.	In 2023, the project will address general repairs required to the public works facilities. Related project includes 6746WS.

<b>Scenario Description</b>	<b>Scenario Comments</b>

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2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6746WS	<b>Scenario:</b>	Main
<b>Title:</b>	Public Works Building Maintenance 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is to address emergency repairs and replacements to the public works facilities.	In 2023, the project will address general repairs required to the public works facilities. Related projects include 6746RD.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6747RD	<b>Scenario:</b>	Main
<b>Title:</b>	Equipment Replacement 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the purchase of tools and equipment required for the roads department.	In 2023, these funds will be used to replace items such as arrowboards, concrete saws, chain saws, etc. These purchases will not form part of the fleet and equipment replacement program. Related projects include 6747WS.

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2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023



<b>Number:</b>	6747WS	<b>Scenario:</b>	Main
<b>Title:</b>	Equipment Replacement 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the purchase of tools and equipment required for the water and wastewater department.	In 2023, these funds will be used to replace items such as pumps, concrete saws, chain saws, etc. These purchases will not form part of the fleet and equipment replacement program. Related projects include 6747RD.

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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6748SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sewer Rehab and Restoration 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project provides for the rehabilitation and restoration of deficiencies in the sanitary sewer system.</p> <p>It will reduce infiltration and excessive loading of ground water into our sanitary sewer system. Work is completed by city staff and equipment.</p>	<p>The 2023 program will be used to complete the sanitary sewer realignment on Aviation Ave. which will result in serviceable industrial properties for future development.</p>

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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	50 to 75 Years	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6749CA	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Mattawa Conservation Authority 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	CONSERVATION AUTHORITY
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
The project provides for an on-going program of capital works undertaken by the North Bay Mattawa Conservation Authority (CA).	<p>CA Lands /Trails - Activities in support of public access and use of CA owned properties including such things as trails, boardwalks, bridges, picnic tables, buildings, washrooms, signage, parking lots and roads. This also includes costs for the upkeep of the ski hill fixed assets.</p> <p>Watershed and Erosion Control Infrastructure - Activities to support major maintenance and capital improvements or repair to water and erosion control structures.</p> <p>Central Services - Capital or major maintenance in support of workshops, buildings, large vehicles and other types of structures or equipment required as part of the overall CA program.</p> <p>Integrated Watershed Management - Planning, technical studies and monitoring activities to determine types of hazard or natural heritage lands that the CA is responsible for managing or regulating including floodplain mapping, and watershed planning projects.</p> <p>Section 28 Regulations - Expenses related to the implementation of the Section 28 regulations of the CA.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2023		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2023	1,105,000	1,105,000	0			
2024	1,105,000	1,105,000	0	6067	CONSERVATION AUTHORITY	1,105,000
2025	1,105,000	1,105,000	0			
2026	1,105,000	1,105,000	0			
2027	1,105,000	1,105,000	0			
2028	1,105,000	1,105,000	0			
2029	1,105,000	1,105,000	0			
2030	1,105,000	1,105,000	0			
2031	1,105,000	1,105,000	0			
2032	1,105,000	1,105,000	0	0461	TSF FRM REV FUND-PAYGO	1,105,000
	<b>11,050,000</b>	<b>11,050,000</b>	<b>0</b>			
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 11,050,000				

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	N/A	Margaret Karpenko	Dec 31, 2023

<b>Number:</b>	6750SS	<b>Scenario:</b>	Main
<b>Title:</b>	Infrastructure Modelling 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Master Plans
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

Description	Comments
<p>This project provides for the engineering services for preparation and maintenance of a model for the City's underground infrastructure (sewers and water mains).</p>	<p>Infrastructure models can be used to analyze the capacity of the existing systems, analyze the impacts and feasibility of expanding the system, or help identify improvements and potential efficiencies.</p> <p>The models will assist with development review in identifying system capacities and issues for new development and redevelopment.</p> <p>The City has a base water distribution model that was established in the early 2000's. The model has been utilized numerous times for planning and analyzing changes to the distribution system.</p> <p>For the storm system, the model will also help with the identification of overland flow routes from major storms (i.e., when the sewer systems is full and stormwater flows over the surface). The model will also help with the preparation of Infill Development/Subwatershed Rehabilitation Plans, which may be necessary in some existing developed areas of the City to assist with planning of stormwater management on a regional basis rather than a site-by-site basis.</p> <p>Once established, all of the models will need to be maintained on a regular basis for changes in the systems.</p> <p>This funding will be used for the maintenance of the infrastructure model.</p> <p>Related projects include 4317SS, 6750ST/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2023																				
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr> <td>2025</td> <td>9,800</td> <td>9,800</td> <td>0</td> </tr> <tr> <td>2029</td> <td>9,800</td> <td>9,800</td> <td>0</td> </tr> <tr> <td></td> <td><b>19,600</b></td> <td><b>19,600</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 19,600</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2025	9,800	9,800	0	2029	9,800	9,800	0		<b>19,600</b>	<b>19,600</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 19,600</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2025	9,800	9,800	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 19,600</b>																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2025	N/A	Adam Lacombe	Dec 31, 2025

<b>Number:</b>	6750ST	<b>Scenario:</b>	Main
<b>Title:</b>	Infrastructure Modelling 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Master Plans
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STORM SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>This project provides for the engineering services for preparation and maintenance of a model for the City's underground infrastructure (sewers and water mains).</p>	<p>Infrastructure models can be used to analyze the capacity of the existing systems, analyze the impacts and feasibility of expanding the system, or help identify improvements and potential efficiencies.</p> <p>The models will assist with development review in identifying system capacities and issues for new development and redevelopment.</p> <p>The City has a base water distribution model that was established in the early 2000's. The model has been utilized numerous times for planning and analyzing changes to the distribution system.</p> <p>For the storm system, the model will also help with the identification of overland flow routes from major storms (i.e., when the sewer systems is full and stormwater flows over the surface). The model will also help with the preparation of Infill Development/Subwatershed Rehabilitation Plans, which may be necessary in some existing developed areas of the City to assist with planning of stormwater management on a regional basis rather than a site-by-site basis.</p> <p>Once established, all of the models will need to be maintained on a regular basis for changes in the systems.</p> <p>This funding will be used for the maintenance of the infrastructure model.</p> <p>Related projects include 4316ST, 4334ST, 6750SS/WS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																				
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 19,600</b>																			

<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2025	N/A	Adam Lacombe	Dec 31, 2025

<b>Number:</b>	6750WS	<b>Scenario:</b>	Main
<b>Title:</b>	Infrastructure Modelling 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Master Plans
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>				<b>Comments</b>		
This project provides for the engineering services for preparation and maintenance of a model for the City's underground infrastructure (sewers and water mains).				<p>Infrastructure models can be used to analyze the capacity of the existing systems, analyze the impacts and feasibility of expanding the system, or help identify improvements and potential efficiencies.</p> <p>The models will assist with development review in identifying system capacities and issues for new development and redevelopment.</p> <p>The City has a base water distribution model that was established in the early 2000's. The model has been utilized numerous times for planning and analyzing changes to the distribution system.</p> <p>For the storm system, the model will also help with the identification of overland flow routes from major storms (i.e., when the sewer systems is full and stormwater flows over the surface). The model will also help with the preparation of Infill Development/ Subwatershed Rehabilitation Plans, which may be necessary in some existing developed areas of the City to assist with planning of stormwater management on a regional basis rather than a site-by-site basis.</p> <p>Once established, all of the models will need to be maintained on a regular basis for changes in the systems.</p> <p>This funding will be used for the maintenance of the infrastructure model.</p> <p>Related projects include 4318WS, 6750ST/SS.</p>		
<b>Scenario Description</b>				<b>Scenario Comments</b>		
<b>Forecast</b>				<b>Project Detailed 2023</b>		
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>	<b>GL Account</b>	<b>Description</b>	<b>Total Amount</b>
2023	4,900	4,900	0			
2024	4,900	4,900	0	3117	DESIGN FEES	4,900
2025	4,900	4,900	0			
2026	4,900	4,900	0			
2027	4,900	4,900	0			
2028	4,900	4,900	0			
2029	4,900	4,900	0			
2030	4,900	4,900	0			
2031	4,900	4,900	0			
2032	4,900	4,900	0	0461	TSF FRM REV FUND-PAYGO	4,900
	<b>49,000</b>	<b>49,000</b>	<b>0</b>			
<b>LTD Amount: 0</b>				<b>Total Project Cost: 49,000</b>		
<b>Related Projects</b>				<b>Operating Impacts</b>		
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>		<b>Completion Date</b>	
2023	Jan 1, 2023	N/A	Adam Lacombe		Dec 31, 2023	

<b>Number:</b>	6752SL	<b>Scenario:</b>	Main
<b>Title:</b>	Street Light Replacement 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	STREET LIGHTS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of streetlight poles, lights, and hardware.	There are over 5,000 streetlights in the City. This project provides funds to purchase replacement lights and hardware as required.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
<table border="1"> <thead> <tr> <th>Budget Year</th> <th>Total Expense</th> <th>Total Revenue</th> <th>Difference</th> </tr> </thead> <tbody> <tr><td>2023</td><td>4,900</td><td>4,900</td><td>0</td></tr> <tr><td>2024</td><td>4,900</td><td>4,900</td><td>0</td></tr> <tr><td>2025</td><td>4,900</td><td>4,900</td><td>0</td></tr> <tr><td>2026</td><td>9,800</td><td>9,800</td><td>0</td></tr> <tr><td>2027</td><td>9,800</td><td>9,800</td><td>0</td></tr> <tr><td>2028</td><td>9,800</td><td>9,800</td><td>0</td></tr> <tr><td>2029</td><td>14,700</td><td>14,700</td><td>0</td></tr> <tr><td>2030</td><td>14,700</td><td>14,700</td><td>0</td></tr> <tr><td>2031</td><td>14,700</td><td>14,700</td><td>0</td></tr> <tr><td>2032</td><td>14,700</td><td>14,700</td><td>0</td></tr> <tr> <td></td> <td><b>102,900</b></td> <td><b>102,900</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount: 0</b></td> <td colspan="2"><b>Total Project Cost: 102,900</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	4,900	4,900	0	2024	4,900	4,900	0	2025	4,900	4,900	0	2026	9,800	9,800	0	2027	9,800	9,800	0	2028	9,800	9,800	0	2029	14,700	14,700	0	2030	14,700	14,700	0	2031	14,700	14,700	0	2032	14,700	14,700	0		<b>102,900</b>	<b>102,900</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 102,900</b>		<table border="1"> <thead> <tr> <th>GL Account</th> <th>Description</th> <th>Total Amount</th> </tr> </thead> <tbody> <tr> <td colspan="3"><b>Expense</b></td> </tr> <tr> <td>5010</td> <td>MACHINERY &amp; EQUIPMENT</td> <td>4,900</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>4,900</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>4,900</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>4,900</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			5010	MACHINERY & EQUIPMENT	4,900	<b>Total Expense:</b>		<b>4,900</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	4,900	<b>Total Revenue:</b>		<b>4,900</b>
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	Karin Pratte	Dec 31, 2023



<b>Number:</b>	6753SS	<b>Scenario:</b>	Main
<b>Title:</b>	Digester and Grit Removal 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for the necessary periodic scheduled maintenance on the digesters and primary clarifiers at the Wastewater Treatment Plant to ensure this equipment is operating in the most optimal fashion.	There are 4 digesters at the Wastewater Treatment Plant. This project provides to clean one digester every 3 years. As per best operating practices, this allows for each tank to be drained and cleaned, approximately, every 10 years.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																	
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	N/A	Karin Pratte	Dec 31, 2023

<b>Number:</b>	6754RD	<b>Scenario:</b>	Main
<b>Title:</b>	Engineering Data and Equipment 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the collection and processing of engineering related data and the purchase and replacement of equipment in support of the data collection.	<p>Engineering data can include such things as traffic data and sewer flow monitoring data.</p> <p>Traffic counting equipment was purchased to eliminate the need to have staff on site for a full day to undertake an intersection traffic count. This frees up staff resources for other tasks. The traffic data is collected using a special video camera and the data file is processed by the equipment supplier using automated software at a lower cost than the cost of staff to do the same work.</p> <p>Sewer flow monitoring supports design for sanitary pumping station upgrades and replacements. It also supports a flow monitoring program to identify areas and sources of infiltration and inflow (sump pumps) to focus in on the most critical areas. A reduction in infiltration/inflow will reduce the demands on the Wastewater Treatment Plant.</p> <p>In 2023, the program will provide for the processing of traffic count data.</p> <p>Related projects include 4202SS and 6754SS.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																					
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<b>Related Projects</b>	<b>Operating Impacts</b>

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2023	Jan 1, 2023	TBD	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	6754SS	<b>Scenario:</b>	Main
<b>Title:</b>	Engineering Data and Equipment 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (Water and Wastewater)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the collection and processing of engineering related data and the purchase and replacement of equipment in support of the data collection.	<p>Engineering data can include such things as traffic data and sewer flow monitoring data.</p> <p>Traffic counting equipment was purchased to eliminate the need to have staff on site for a full day to undertake an intersection traffic count. This frees up staff resources for other tasks. The traffic data is collected using a special video camera and the data file is processed by the equipment supplier using automated software at a lower cost than the cost of staff to do the same work.</p> <p>Sewer flow monitoring supports design for sanitary pumping station upgrades and replacements. It also supports a flow monitoring program to identify areas and sources of infiltration and inflow (sump pumps) to focus in on the most critical areas. A reduction in infiltration/inflow will reduce the demands on the Wastewater Treatment Plant.</p> <p>In 2023, the program will provide for the collection of flow monitoring data.</p> <p>Related projects include 4202SS and 6754RD.</p>

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	6756RD	<b>Scenario:</b>	Main
<b>Title:</b>	Interlocking Brick Sidewalk & Retaining Wall Replacement 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the replacement of failing interlock brick sidewalks and retaining walls throughout the City.	The City has multiple kilometers of interlock brick sidewalk and retaining walls on various roadways; including, Algonquin Ave., Fisher St., Oak St., Cassells, and McKeown. Much of the brick and retaining wall have experienced pre-mature failure because of road salt. This ongoing project will provide funds to remove and replace the worst areas of brick with traditional concrete sidewalk which is more durable.  In 2023, this program will complete the replacements along Algonquin and Fisher.

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2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023

<b>Number:</b>	6757WS	<b>Scenario:</b>	Main
<b>Title:</b>	Water Reservoir Upgrades 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for an on-going program for upgrades, repairs, and replacement at the City's water reservoirs.	There are 4 water standpipes, a reservoir, 3 pumping stations, and 5 buildings. This project will fund upgrades and repairs at these facilities.  In 2023, this project will provide for upgrades to SCADA and the communication system, as well as, replacement of doors and chemical tanks at some facilities.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the capital forecast for 2024 to 2032: 2024 to 2032 Upgrades to piping, valves, chemical closing, instrumentation, and controls

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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2023	Jan 1, 2023	TBD	Karin Pratte	Dec 31, 2023

<b>Number:</b>	6758PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks Master Plan 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Strategic Investment (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Master Plans
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the implementation of projects identified in the approved 2021 Parks Master Plan.	Several playground buildings including, Police, Bourke, and Graniteville, have been identified as redundant. The 2023 funds will be used to demolish these buildings and replace them with a small heated shed which will house a water connection for outdoor rink flooding and maintenance equipment for clearing the rinks. This will result in operating savings as the elimination of the unused buildings will eliminate the associated utility and maintenance costs.  Related projects include 6759PR.

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<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																									
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0461	TSF FRM REV FUND-PAYGO	196,000																																																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Dave Schroeder	Dec 31, 2023

<b>Number:</b>	6759PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks Building Rehab 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Infrastructure / Sustainability, Maintenance
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PARKS
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation of the Parks buildings and facilities. It includes consideration for accessibility and energy efficiencies.	In 2023, this project will fund a structural review on the roof at Circle Lake Park building to determine the repairs required. This program will also support the building of the new outdoor sheds at Police, Bourke, and Graniteville parks following the demolition of the existing buildings to be done through project 6758PR - Parks Master Plan 2023 On-going.  Related projects include 6758PR

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																					
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager	Completion Date
2023	Jan 1, 2023	TBD	Dave Schroeder	Dec 31, 2023

<b>Number:</b>	6760WS	<b>Scenario:</b>	Main
<b>Title:</b>	Water Meter & Radio Upgrade 2023 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Equipment Replacement
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
This project provides for the upgrade of the Neptune water meter data collectors from R450 to an R900 system utilizing the LoRaWAN gateway to enhance communications between the water meters and the Neptune software. This project also provides for the replacement of the older retrofit, non-Neptune water meters that are approaching end of life.		The current Neptune water meter data collectors have reached the end of their useful life. This project will replace the current units with the updated model over the next couple of years. There are several older water meters that have reached the end of their useful lives.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	

<b>Forecast</b>		<b>Project Detailed 2023</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	245,000	245,000	0
2024	245,000	245,000	0
2025	245,000	245,000	0
2026	245,000	245,000	0
2032	490,000	490,000	0
	<b>1,470,000</b>	<b>1,470,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,470,000		
<b>GL Account</b>	<b>Description</b>		<b>Total Amount</b>
<b>Expense</b>			
5020	WATER METERS		245,000
		<b>Total Expense:</b>	<b>245,000</b>
<b>Revenue</b>			
0461	TSF FRM REV FUND-PAYGO		245,000
		<b>Total Revenue:</b>	<b>245,000</b>

<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>
2023	Jan 1, 2023	15 Years	Margaret Karpenko
			<b>Completion Date</b>
			Dec 31, 2023



<b>Number:</b>	8023FL	<b>Scenario:</b>	Main
<b>Title:</b>	Vehicle and Equipment Life Cycle 2023	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - General Government	<b>Project Type:</b>	FLEET
<b>Budget Year:</b>	2023	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The Fleet vehicles and equipment are tracked and reviewed on an annual basis to determine which vehicles and equipment require replacement or are required to meet departmental needs and demands.</p> <p>The planned buy-list is determined the previous year and is mainly funded by the Fleet Lifecycle Reserve (99586R) as well as the Provincial Gas Tax.</p>	This project is to process the fleet purchases planned for 2023 and will be funded from the fleet lifecycle reserve as well as Provincial Gas Tax funding.

<b>Scenario Description</b>	<b>Scenario Comments</b>

<b>Forecast</b>	<b>Project Detailed 2023</b>																																																																												
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager</b>	<b>Completion Date</b>
2023	Jan 1, 2023	TBD	Domenic Schiavone	Dec 31, 2023