



**CAPITAL BUDGET 2022**

**CAPITAL FORECAST FOR 2023 TO 2031**

**CAPITAL PROJECT INFORMATION SHEETS**

**CAPITAL BUDGET 2022  
CAPITAL FORECAST FOR 2023 TO 2031  
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.

**2022 GENERAL  
CAPITAL BUDGET SUMMARY AND  
CAPITAL FORECAST FOR 2023 TO 2031**

**2022 General Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit**

	Project Classification		LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Community Services</b>														
3508PR - Parks and Playgrounds - New Neighbourhood Parks	R	G	-	-	-	-	200,000	-	-	200,000	-	-	200,000	600,000
3509PZ - Official Plan 5 Year Review and Study Update	RF	SI	340,906	-	-	-	-	250,000	-	-	-	-	-	590,906
3702PR - Waterfront Building Rehab and Development		G	-	-	200,000	1,800,000	-	-	-	-	-	-	-	2,000,000
3711RF - City of North Bay Community and Recreation Centre	R	G	6,500,000	16,500,000	18,775,000	-	-	-	-	-	-	-	-	41,775,000
3823FD - Fire Master Plan	R	SI	-	-	-	-	90,000	-	-	-	-	-	-	90,000
3938PR - Olmsted Beach - Boat Launch Replacement		AIM	-	-	50,000	550,000	-	-	-	-	-	-	-	600,000
3942RF - Omischl Sports Complex - Synthetic Turf Replacement		AIM	-	-	600,000	-	600,000	-	-	-	-	-	-	1,200,000
4013FD - Fire Station 1 - Roof Replacement		AIM	-	-	149,200	-	-	-	-	-	-	-	-	149,200
4119RF - Arenas - Memorial Gardens East and West Concourse Roof Replacement		AIM	-	-	-	-	-	-	-	25,500	510,000	-	-	535,500
4120PZ - Electronic Building Permit Application Submission Program		G	-	150,000	-	-	-	-	-	-	-	-	-	150,000
4122PR - Recreational Feasibility		SI	-	-	100,000	-	-	-	-	-	-	-	-	100,000
4126PR - All-Wheel Park	F	SI	480,625	672,500	-	-	-	-	-	-	-	-	-	1,153,125
4206RF - Pete Palangio Parking Lot Rehab		AIM	-	-	-	640,000	-	-	-	-	-	-	-	640,000
4211PR - Museum Playground	RF	G	-	500,000	-	-	-	-	-	-	-	-	-	500,000
6622RF - Pete Palangio Rehab Program 2022 On-going		AIM	-	200,000	200,000	200,000	200,000	200,000	250,000	250,000	250,000	250,000	250,000	2,250,000
6625RF - Recreation Facilities Rehab and Development 2022 On-going		AIM	-	250,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	550,000	5,200,000
6626RF - Omischl Sports Complex Rehab Program 2022 On-going		AIM	-	60,000	62,000	64,000	66,000	68,000	70,000	72,000	75,000	75,000	75,000	687,000
6627PR - Parks and Playground Rehab Program 2022 On-going		AIM	-	293,000	302,000	311,000	320,000	329,000	338,000	347,000	360,000	360,000	360,000	3,320,000
6628PR - Waterfront Rehab Program 2022 On-going		AIM	-	129,000	133,000	137,000	141,000	145,000	149,000	153,000	160,000	160,000	160,000	1,467,000
6629PR - Central City Rehab Program 2022 On-going		AIM	-	82,000	84,000	86,000	88,000	90,000	92,000	94,000	96,000	96,000	96,000	904,000
6631PR - Trail and Supporting Hard Surfaces Rehab 2022 On-going		AIM	-	200,000	256,000	264,000	272,000	290,000	298,000	306,000	315,000	315,000	315,000	2,831,000

**2022 General Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit**

			Project Classification	LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Community Services</b>															
6632PR - Parks Equipment Replacement Program 2022 On-going		AIM	-	-	51,000	53,000	55,000	57,000	59,000	61,000	63,000	63,000	63,000	63,000	525,000
6647RF - Memorial Gardens Rehab 2022 On-going		AIM	-	300,000	300,000	300,000	225,000	250,000	275,000	300,000	300,000	300,000	300,000	300,000	2,850,000
6648FD - Fire Facilities Management Program 2022 On-going		AIM	-	89,250	-	94,500	-	99,750	-	105,000	-	105,000	105,000	105,000	598,500
6672FD - Fire Equipment Replacement 2022 On-going		AIM	-	63,000	84,000	63,000	84,000	63,000	47,250	66,150	84,000	84,000	84,000	84,000	722,400
6673FD - Fire Bunker Gear Replacement Program 2022 On-going		AIM	-	-	-	-	-	243,225	-	-	-	-	-	-	243,225
6690PR - Parks Master Plan 2022 On-going		SI	-	-	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,800,000
6691PR - Parks Building Rehab 2022 On-going		AIM	-	100,000	100,000	105,000	105,000	107,500	107,500	110,000	110,000	115,000	115,000	115,000	1,075,000
<b>Total Community Services</b>			<b>7,321,531</b>	<b>19,588,750</b>	<b>22,196,200</b>	<b>5,417,500</b>	<b>3,196,000</b>	<b>2,942,475</b>	<b>2,435,750</b>	<b>2,839,650</b>	<b>3,073,000</b>	<b>2,673,000</b>	<b>2,873,000</b>	<b>2,873,000</b>	<b>74,556,856</b>
<b>Corporate Services</b>															
3912GG - Integrated Software Solution	R	AIM	84,000	3,000,000	-	-	-	-	-	-	-	-	-	-	3,084,000
6654GG - System Technology Program 2022 On-going		AIM	-	474,504	561,000	561,000	561,000	561,000	561,000	561,000	561,000	561,000	561,000	561,000	5,523,504
<b>Total Corporate Services</b>			<b>84,000</b>	<b>3,474,504</b>	<b>561,000</b>	<b>561,000</b>	<b>561,000</b>	<b>561,000</b>	<b>561,000</b>	<b>561,000</b>	<b>561,000</b>	<b>561,000</b>	<b>561,000</b>	<b>561,000</b>	<b>8,607,504</b>
<b>General Government</b>															
3216GG - Capital Financing		SI	4,346,492	269,323	247,846	276,708	291,562	301,553	308,309	315,320	320,915	329,486	343,509	343,509	7,351,023
<b>Total General Government</b>			<b>4,346,492</b>	<b>269,323</b>	<b>247,846</b>	<b>276,708</b>	<b>291,562</b>	<b>301,553</b>	<b>308,309</b>	<b>315,320</b>	<b>320,915</b>	<b>329,486</b>	<b>343,509</b>	<b>343,509</b>	<b>7,351,023</b>
<b>Infrastructure and Operations</b>															
3302ST - Trunk Sewer Rehab - Pinewood Fingers Creek		AIM	-	-	-	-	-	200,000	-	-	-	-	-	-	200,000
3405PK - Parking Property Acquisition Program	R	SI	300,000	-	-	300,000	-	-	300,000	-	-	-	-	300,000	1,200,000
3506ST - Stormwater Management - Overland Flow Control Study		AIM	-	-	-	-	-	100,000	-	-	-	-	-	-	100,000
3518PR - King's Landing Commercialization of Waterfront	F	SI	756,180	-	-	1,000,000	5,100,000	5,100,000	5,100,000	-	-	-	-	-	17,056,180
3700RD - Seymour St. - Station to Wallace - Widening and Signals		G	-	-	-	180,000	-	3,400,000	-	-	-	-	-	-	3,580,000
3700ST - Seymour St. - Station to Wallace - Widening and Signals		G	-	-	-	70,000	-	1,300,000	-	-	-	-	-	-	1,370,000
3701RD - Norman/Chapais Connection Watermain		SI	-	-	-	-	-	100,000	-	-	-	-	-	1,300,000	1,400,000
3701ST - Norman/Chapais Connection Watermain		SI	-	-	-	-	-	40,000	-	-	-	-	-	500,000	540,000
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction	RF	G	600,000	-	2,900,000	1,000,000	-	-	-	-	-	-	-	-	4,500,000

**2022 General Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit**

			LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
Project Classification														
<b>Infrastructure and Operations</b>														
3801RD - McKeown Ave. Widening - Gormanville to Cartier	RF	G	300,000	5,340,000	-	-	-	-	-	-	-	-	-	5,640,000
3801ST - McKeown Ave. Widening - Gormanville to Cartier		G	50,000	725,000	-	-	-	-	-	-	-	-	-	775,000
3802RD - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall		AIM	-	-	-	-	-	-	-	350,000	-	6,600,000	-	6,950,000
3802ST - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall		AIM	-	-	-	-	-	-	-	80,000	-	1,500,000	-	1,580,000
3809RD - Hammond St. Bridge Replacement		AIM	830,000	200,000	-	-	-	-	-	-	-	-	-	1,030,000
3810RD - Main St. - Gormanville to Memorial		G	-	-	-	-	-	-	-	170,000	-	3,200,000	-	3,370,000
3810ST - Main St. - Gormanville to Memorial		G	-	-	-	-	-	-	-	60,000	-	1,100,000	-	1,160,000
3812RD - Lakeshore Dr. (ONR Overpass)		AIM	-	-	-	-	-	25,000	-	250,000	-	-	-	275,000
3813RD - Trout Lake Rd. (ONR Overpass)		AIM	-	-	-	-	-	25,000	-	250,000	-	-	-	275,000
3814RD - Lees Road Reconstruction		AIM	200,000	1,500,000	-	2,000,000	-	-	-	-	-	-	-	3,700,000
3815RD - Trout Lake Road Retaining Wall Replacement		AIM	-	50,000	-	-	-	1,250,000	1,250,000	-	-	-	-	2,550,000
3815ST - Trout Lake Road Retaining Wall Replacement		AIM	-	15,000	-	-	-	-	250,000	-	-	-	-	265,000
3818RD - Premier Pumping Station Replacement	R	AIM	200,000	450,000	-	-	-	-	-	-	-	-	-	650,000
3830GD - Merrick Landfill Gas (LFG) Collection Infrastructure	R	G	185,824	600,000	-	-	150,000	650,000	-	-	150,000	650,000	-	2,385,824
3900RD - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain		SI	-	-	-	-	110,000	2,700,000	-	-	-	-	-	2,810,000
3900ST - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain		SI	-	-	-	-	50,000	700,000	-	-	-	-	-	750,000
3908ST - Trunk Sewer Rehab - Eastview Tributary System		AIM	-	-	-	100,000	-	1,000,000	-	-	-	-	-	1,100,000
3909RD - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement		AIM	-	-	-	-	130,000	-	2,400,000	-	-	-	-	2,530,000
3909ST - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement		AIM	-	-	-	-	50,000	-	900,000	-	-	-	-	950,000
3910ST - Chippewa Creek and Airport Heights Stormwater Retention		G	-	50,000	-	2,500,000	-	-	-	-	-	-	-	2,550,000
3918RD - Algonquin/Jane/Front Intersection Addition of Left Turn Lane		AIM	543,790	700,000	-	-	-	-	-	-	-	-	-	1,243,790

**2022 General Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit**

	Project Classification	LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Infrastructure and Operations</b>													
3919RD - Metcalfe St - Laurier to End	AIM	40,000	-	-	-	700,000	-	-	-	-	-	-	740,000
3919ST - Metcalfe St - Laurier to End	AIM	30,000	-	-	-	500,000	-	-	-	-	-	-	530,000
3920RD - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	6,791	-	-	-	-	70,000	-	1,300,000	-	-	-	1,376,791
3920ST - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	676	-	-	-	-	20,000	-	400,000	-	-	-	420,676
3926GD - Merrick Landfill Lifecycle Extension Environmental Assessment	R	AIM	500,000	-	-	-	-	-	500,000	7,500,000	-	-	8,500,000
3932RD - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	110,000	-	800,000	800,000	-	-	-	-	-	-	-	1,710,000
3932ST - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	30,000	-	400,000	400,000	-	-	-	-	-	-	-	830,000
3934RD - Main St. Paving Stone Replacement	AIM	386,096	5,650,000	-	-	-	-	-	-	-	-	-	6,036,096
3934ST - Main St. Paving Stone Replacement	AIM	50,000	100,000	-	-	-	-	-	-	-	-	-	150,000
4005RD - Pinewood Park Drive Continuous Left Turn Lane (Lakeshore Drive to Decaire Road)	G	-	-	-	90,000	-	-	1,600,000	-	-	-	-	1,690,000
4016TR - Transit Terminal Rehabilitation	F	AIM	86,250	86,250	86,250	-	-	-	-	-	-	-	258,750
4018TR - Transit Fleet Garage and Bus Barn Upgrades: Health and Safety	F	AIM	124,555	183,957	10,000	63,000	-	-	-	-	-	-	381,512
4020TR - New Bus Shelters and Digital Signage	RF	SI	63,000	219,240	-	158,761	-	-	-	-	-	-	441,001
4021TR - Construction of Sidewalks for Transit Routes	F	SI	3,517,895	1,330,802	1,728,434	2,001,950	1,298,624	-	-	-	-	-	9,877,705
4025RD - Booth Road & Lakeshore Drive Intersection Reconstruction	G	150,000	1,350,000	-	-	-	-	-	-	-	-	-	1,500,000
4027TR - Bicycle Racks and Related Storage Areas for Transit Riders	F	AIM	84,000	52,500	-	-	-	-	-	-	-	-	136,500
4032RD - O'Brien St. Reconstruction - Cassells to Ski Club	AIM	-	-	-	-	-	410,000	-	-	-	3,900,000	750,000	5,060,000
4032ST - O'Brien St. Reconstruction - Cassells to Ski Club	AIM	-	-	-	-	-	150,000	-	-	-	1,500,000	500,000	2,150,000
4033RD - Roadside Guide rails and Retaining Walls - Inspection and Upgrade	AIM	347,000	-	-	-	-	400,000	-	-	-	-	-	747,000
4034RD - Road Condition Inspection	AIM	-	-	-	-	250,000	-	-	-	250,000	-	-	500,000
4101GG - City Hall Accessibility Upgrades	AIM	-	-	1,000,000	-	-	-	-	-	-	-	-	1,000,000



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<b>Infrastructure and Operations</b>													
4106RD - Queen St. Culvert Replacement	AIM	-	-	-	600,000	-	-	-	-	-	-	-	600,000
4107RD - Tower Dr. Hump Removal	AIM	-	-	-	500,000	-	-	-	-	-	-	-	500,000
4109RD - Trout Lake Rd. & Laurentian Ave. Intersection Reconstruction	F AIM	-	-	200,000	3,500,000	-	-	-	-	-	-	-	3,700,000
4115PK - Innovation Hub	G	110,000	-	1,000,000	-	-	-	-	-	-	-	-	1,110,000
4115RD - Innovation Hub	G	40,000	-	700,000	-	-	-	-	-	-	-	-	740,000
4115ST - Innovation Hub	G	20,000	-	400,000	-	-	-	-	-	-	-	-	420,000
4121RD - Lamorie St. Bridge Rehab	AIM	100,000	600,000	-	-	-	-	-	-	-	-	-	700,000
4124RD - Francis St. Sewer Upsizing (Surrey to Greenhill)	G	-	-	-	-	-	110,000	-	-	2,100,000	-	-	2,210,000
4124ST - Francis St. Sewer Upsizing (Surrey to Greenhill)	G	-	-	-	-	-	70,000	-	-	1,300,000	-	-	1,370,000
4125RD - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R AIM	-	-	620,000	-	3,400,000	-	3,400,000	-	-	-	-	7,420,000
4125ST - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R AIM	-	-	140,000	-	750,000	-	750,000	-	-	-	-	1,640,000
4128RD - Jane Street Sidewalk	SI	25,000	-	175,000	-	-	-	-	-	-	-	-	200,000
4201PK - Downtown Parking Facilities	SI	-	-	-	-	-	-	-	500,000	3,450,000	-	-	3,950,000
4203GD - Leachate Management - Future Cells	R G	-	-	250,000	-	2,200,000	-	-	-	250,000	-	2,200,000	4,900,000
4205RD - Climate Change Initiatives	F SI	-	50,000	50,000	-	-	-	-	-	-	-	1,000,000	1,100,000
4207ST - Stormwater Outfall Repair and Rehabilitation	AIM	-	-	50,000	200,000	-	-	-	-	-	-	-	250,000
4208RD - Four Mile Lake Rd. Extension to Highway 11	F G	-	-	-	620,000	-	-	11,800,000	-	-	-	-	12,420,000
4209GG - City Hall Customer Service Centre & Lobby Renovations	AIM	-	-	-	-	350,000	350,000	-	-	-	-	-	700,000
4210GD - New Organic Waste Drop-off and Hazardous Waste Depot	SI	-	-	-	550,000	-	-	-	-	-	-	-	550,000
4215RD - Local Road Reconstruction	AIM	-	-	-	-	-	-	-	300,000	-	-	3,000,000	3,300,000
4216RD - Memorial Rehabilitation	AIM	-	-	-	-	-	-	-	-	-	-	1,500,000	1,500,000

**2022 General Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit**

			LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
Project Classification														
<b>Infrastructure and Operations</b>														
4217TR - Transit Electrification	AIM		-	-	-	-	-	-	-	-	-	-	2,000,000	<b>2,000,000</b>
4300RD - Airport Industrial Park Expansion	RF	G	-	-	590,000	-	-	-	-	11,200,000	-	-	-	<b>11,790,000</b>
4300ST - Airport Industrial Park Expansion	F	G	-	-	50,000	-	-	-	-	800,000	-	-	-	<b>850,000</b>
4401RD - Sage Rd. Reconstruction to Collector Standard		G	-	-	-	-	-	-	-	250,000	-	-	3,500,000	<b>3,750,000</b>
4401ST - Sage Rd. Reconstruction to Collector Standard		G	-	-	-	-	-	-	-	90,000	-	-	1,300,000	<b>1,390,000</b>
4500RD - Franklin & John Trunk Watermain		SI	-	-	-	-	-	290,000	-	5,400,000	-	-	-	<b>5,690,000</b>
4500ST - Franklin & John Trunk Watermain		SI	-	-	-	-	-	110,000	-	2,000,000	-	-	-	<b>2,110,000</b>
6610RD - City Share of Development Costs 2022 On-going	R	G	-	144,000	331,000	341,000	351,000	362,000	373,000	384,000	395,000	395,000	395,000	<b>3,471,000</b>
6611RD - Asphalt Resurfacing 2022 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	3,600,000	3,800,000	<b>36,200,000</b>
6612RD - Asphalt Sheeting 2022 On-going		AIM	-	142,000	146,000	146,000	146,000	146,000	146,000	150,000	150,000	150,000	150,000	<b>1,472,000</b>
6614RD - Pedestrian Safety Program 2022 On-going		AIM	-	92,000	96,000	96,000	96,000	146,000	146,000	150,000	155,000	155,000	155,000	<b>1,287,000</b>
6615RD - Road Culvert Replace/Rehab 2022 On-going		AIM	-	215,000	221,000	221,000	221,000	221,000	221,000	228,000	230,000	230,000	230,000	<b>2,238,000</b>
6616RD - Rural Road Rehab 2022 On-going		AIM	-	712,000	733,000	733,000	733,000	733,000	733,000	755,000	755,000	755,000	755,000	<b>7,397,000</b>
6617SL - Traffic Control Signal Upgrade 2022 On-going		AIM	-	215,000	221,000	221,000	221,000	221,000	221,000	228,000	230,000	230,000	230,000	<b>2,238,000</b>
6618RD - Sidewalk Replacement Program 2022 On-going		AIM	-	115,000	121,000	121,000	121,000	221,000	221,000	228,000	230,000	230,000	230,000	<b>1,838,000</b>
6619RD - Bridge Rehab 2022 On-going		AIM	-	232,000	239,000	246,000	253,000	261,000	269,000	277,000	290,000	290,000	300,000	<b>2,657,000</b>
6620RD - Downtown Roads Maintenance 2022 On-going		AIM	-	53,000	53,000	112,000	115,000	118,000	122,000	126,000	130,000	130,000	130,000	<b>1,089,000</b>
6621PK - Parking Equipment Program 2022 On-going		AIM	-	125,000	-	-	125,000	-	-	125,000	-	-	125,000	<b>500,000</b>
6623MR - King's Landing and Marina Rehab Program 2022 On-going		AIM	-	100,000	150,000	200,000	150,000	150,000	100,000	100,000	100,000	100,000	100,000	<b>1,250,000</b>
6630PR - City Hall Grounds Rehab Program 2022 On-going		AIM	-	100,000	242,000	170,000	-	178,000	-	186,000	96,000	96,000	100,000	<b>1,168,000</b>
6633RF - Aquatic Centre Rehab Program 2022 On-going	R	AIM	-	150,000	105,000	110,000	115,000	120,000	125,000	130,000	135,000	135,000	135,000	<b>1,260,000</b>

**2022 General Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit**

	Project Classification	LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Infrastructure and Operations</b>													
6634PK - Parking Lot Maintenance and Improvement Program 2022 On-going	AIM	-	50,000	50,000	50,000	50,000	50,000	55,000	55,000	60,000	60,000	65,000	545,000
6635TR - Transit Buildings Capital Program 2022 On-going	AIM	-	26,250	26,250	26,250	26,250	26,250	27,500	27,500	27,500	30,000	30,000	273,750
6636GG - City Hall Building Rehab 2022 On-going	AIM	-	300,000	300,000	300,000	145,000	150,000	155,000	300,000	300,000	300,000	300,000	2,550,000
6646RD - Design Work Next Year's Projects 2022 On-going	AIM	-	100,000	161,000	166,000	171,000	176,000	181,000	186,000	190,000	190,000	190,000	1,711,000
6646ST - Design Work Next Year's Projects 2022 On-going	AIM	-	-	18,000	18,000	19,000	19,000	20,000	20,000	20,000	20,000	20,000	174,000
6650RD - Asset Management 2022 On-going	AIM	-	-	25,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	425,000
6651ST - Storm Sewer Flushing and Outfall Maintenance 2022 On-going	AIM	-	81,000	83,000	85,000	88,000	91,000	94,000	97,000	100,000	100,000	100,000	919,000
6674ST - Ditch Enclosure 2022 On-going	AIM	-	200,000	200,000	200,000	200,000	300,000	300,000	309,000	310,000	310,000	310,000	2,639,000
6679RD - Public Works Building Maintenance 2022 On-going	AIM	-	50,000	50,000	50,000	50,000	50,000	50,000	52,000	55,000	55,000	55,000	517,000
6680RD - Equipment Replacement 2022 On-going	AIM	-	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	100,000
6683ST - Infrastructure Modelling 2022 On-going	AIM	-	-	-	-	10,000	-	-	-	10,000	-	-	20,000
6684SL - Street Light Replacement 2022 On-going	AIM	-	5,000	5,000	5,000	5,000	10,000	10,000	10,000	15,000	15,000	15,000	95,000
6686RD - Engineering Data and Equipment 2022 On-going	SI	-	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	200,000
6688RD - Interlocking Brick Sidewalk & Retaining Wall Replacement 2022 On-going	AIM	-	100,000	100,000	100,000	100,000	-	-	-	-	-	-	400,000
<b>Total Infrastructure &amp; Operations</b>		<b>9,787,057</b>	<b>26,189,999</b>	<b>18,455,934</b>	<b>24,030,961</b>	<b>22,229,874</b>	<b>25,999,250</b>	<b>34,999,500</b>	<b>31,703,500</b>	<b>22,663,500</b>	<b>26,106,000</b>	<b>25,850,000</b>	<b>268,015,575</b>
<b>Service Partners</b>													
6483AA - Cassellholme Redevelopment	SI	525,000	1,500,000	2,000,000	2,500,000	3,000,000	3,128,000	3,128,000	3,128,000	3,128,000	3,128,000	3,128,000	28,293,000
6637OC - Capitol Centre 2022 On-going	AIM	-	204,000	204,000	204,000	204,000	204,000	204,000	204,000	204,000	204,000	204,000	2,040,000
6638PD - North Bay Police Services 2022 On-going	R AIM	-	1,106,700	980,220	861,900	1,397,400	1,362,720	887,400	1,830,900	776,220	776,220	3,836,220	13,815,900
6639LB - North Bay Public Library 2022 On-going	AIM	-	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	500,000	5,000,000

**2022 General Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit**

	Project Classification	LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Service Partners</b>													
6655AT - North Bay Jack Garland Airport 2022 On-going	AIM	-	675,000	606,900	560,490	5,508,000	612,000	576,300	561,000	593,640	576,300	606,900	10,876,530
6682CA - North Bay Mattawa Conservation Authority 2022 On-going	AIM	-	996,075	980,477	992,549	1,000,168	1,012,831	1,025,977	1,033,766	1,040,941	1,048,722	1,059,505	10,191,011
<b>Total Service Partners</b>		<b>525,000</b>	<b>4,981,775</b>	<b>5,271,597</b>	<b>5,618,939</b>	<b>11,609,568</b>	<b>6,819,551</b>	<b>6,321,677</b>	<b>7,257,666</b>	<b>6,242,801</b>	<b>6,233,242</b>	<b>9,334,625</b>	<b>70,216,441</b>
<b>Total General Capital Budget Reserve Funding (R)</b>		<b>22,064,080</b>	<b>54,504,351</b>	<b>46,732,577</b>	<b>35,905,108</b>	<b>37,888,004</b>	<b>36,623,829</b>	<b>44,626,236</b>	<b>42,677,136</b>	<b>32,861,216</b>	<b>35,902,728</b>	<b>38,962,134</b>	<b>428,747,399</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)
3509PZ - Official Plan 5 Year Review and Study Update		(118,076)	-	-	-	-	-	-	-	-	-	-	(118,076)
3711RF - City of North Bay Community and Recreation Centre		(3,000,000)	-	-	-	-	-	-	-	-	-	-	(3,000,000)
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction		-	-	(339,000)	-	-	-	-	-	-	-	-	(339,000)
3801RD - McKeown Ave. Widening - Gormanville to Cartier		-	(25,315)	-	-	-	-	-	-	-	-	-	(25,315)
3818RD - Premier Pumping Station Replacement		-	(128,000)	-	-	-	-	-	-	-	-	-	(128,000)
3823FD - Fire Master Plan		-	-	-	-	(45,000)	-	-	-	-	-	-	(45,000)
3830GD - Merrick Landfill Gas (LFG) Collection Infrastructure		(150,000)	(600,000)	-	-	(150,000)	(345,000)	-	-	-	(250,000)	-	(1,495,000)
3912GG - Integrated Software Solution		-	(469,914)	-	-	-	-	-	-	-	-	-	(469,914)
3926GD - Merrick Landfill Lifecycle Extension Environmental Assessment		(500,000)	-	-	-	-	-	-	(500,000)	-	-	-	(1,000,000)
4020TR - New Bus Shelters and Digital Signage		-	(8,000)	-	-	-	-	-	-	-	-	-	(8,000)
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)
4211PR - Museum Playground		-	(85,200)	-	-	-	-	-	-	-	-	-	(85,200)
4300RD - Airport Industrial Park Expansion		-	-	(196,954)	-	-	-	-	-	-	-	-	(196,954)
6610RD - City Share of Development Costs 2022 On-going		-	(30,000)	(51,288)	-	-	-	-	-	-	-	-	(81,288)

2022 General Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit

Project Classification	LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Reserve Funding (R)</b>												
6633RF - Aquatic Centre Rehab Program 2022 On-going	-	(110,000)	-	-	-	-	-	-	-	-	-	(110,000)
6638PD - North Bay Police Services 2022 On-going	-	(150,000)	-	-	-	-	-	-	-	-	-	(150,000)
<b>Total Reserve Funding</b>	<b>(4,068,076)</b>	<b>(1,606,429)</b>	<b>(1,037,242)</b>	<b>(300,000)</b>	<b>(1,840,000)</b>	<b>(345,000)</b>	<b>(300,000)</b>	<b>(500,000)</b>	<b>-</b>	<b>(250,000)</b>	<b>(1,120,000)</b>	<b>(11,366,747)</b>
<b>Grants and Other Funding Sources (F)</b>												
3509PZ - Official Plan 5 Year Review and Study Update	(31,500)	-	-	-	-	-	-	-	-	-	-	(31,500)
3518PR - King's Landing Commercialization of Waterfront	(581,149)	-	-	-	(3,400,000)	(3,400,000)	(3,400,000)	-	-	-	-	(10,781,149)
3715RD - Pinewood Park & Lakeshore Drive Intersection Reconstruction	-	-	(1,050,000)	-	-	-	-	-	-	-	-	(1,050,000)
3801RD - McKeown Ave. Widening - Gormanville to Cartier	(216,137)	(3,950,363)	-	-	-	-	-	-	-	-	-	(4,166,500)
4016TR - Transit Terminal Rehabilitation	(71,872)	(81,872)	(81,872)	-	-	-	-	-	-	-	-	(235,616)
4018TR - Transit Fleet Garage and Bus Barn Upgrades: Health and Safety	(85,796)	(180,436)	(7,333)	(56,198)	-	-	-	-	-	-	-	(329,763)
4020TR - New Bus Shelters and Digital Signage	(46,734)	(210,232)	-	(156,419)	-	-	-	-	-	-	-	(413,385)
4021TR - Construction of Sidewalks for Transit Routes	(2,334,877)	(876,899)	(1,138,908)	(1,319,135)	(855,695)	-	-	-	-	-	-	(6,525,514)
4027TR - Bicycle Racks and Related Storage Areas for Transit Riders	(61,597)	(48,498)	-	-	-	-	-	-	-	-	-	(110,095)
4109RD - Trout Lake Rd. & Laurentian Ave. Intersection Reconstruction	-	-	-	(3,000,000)	-	-	-	-	-	-	-	(3,000,000)
4126PR - All-Wheel Park	-	(100,000)	-	-	-	-	-	-	-	-	-	(100,000)
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)
4211PR - Museum Playground	-	(127,000)	-	-	-	-	-	-	-	-	-	(127,000)
4300RD - Airport Industrial Park Expansion	-	-	-	-	-	-	-	(7,390,864)	-	-	-	(7,390,864)

2022 General Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit

Project Classification	LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Grants and Other Funding Sources (F)</b>												
4300ST - Airport Industrial Park Expansion	-	-	-	-	-	-	-	(527,918)	-	-	-	(527,918)
Ontario Community Infrastructure Fund (OCIF)	(5,625,806)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(2,632,581)	(29,319,035)
<b>Total Grants and Other Funding Sources</b>	<b>(3,429,662)</b>	<b>(11,226,106)</b>	<b>(4,935,694)</b>	<b>(7,164,333)</b>	<b>(6,888,276)</b>	<b>(6,032,581)</b>	<b>(13,832,581)</b>	<b>(10,551,363)</b>	<b>(2,632,581)</b>	<b>(2,632,581)</b>	<b>(2,632,581)</b>	<b>(71,958,339)</b>
<b>Net General Capital Budget</b>	<b>14,566,342</b>	<b>41,671,816</b>	<b>40,759,641</b>	<b>28,440,775</b>	<b>29,159,728</b>	<b>30,246,248</b>	<b>30,493,655</b>	<b>31,625,773</b>	<b>30,228,635</b>	<b>33,020,147</b>	<b>35,209,553</b>	<b>345,422,313</b>
<b>Capital Funding Policy Limit</b>												
Capital Levy in Operating Budget	(15,162,304)	(15,122,441)	(15,758,582)	(17,244,039)	(18,243,130)	(18,918,685)	(19,619,827)	(20,179,313)	(21,036,435)	(22,438,657)	(22,438,657)	(183,723,413)
Debenture and Long-term Debt	(8,500,000)	(6,250,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(8,500,000)	(82,750,000)
Special Debt for Community Centre	(8,121,208)	(15,775,000)	-	-	-	-	-	-	-	-	-	(23,896,208)
Canadian Community Building Fund for Community Centre	(6,920,792)	-	-	-	-	-	-	-	-	-	-	(6,920,792)
Canadian Community Building Fund	(3,270,023)	(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)	(33,979,805)
<b>Target Policy for Net Expenditures</b>	<b>(41,974,327)</b>	<b>(40,559,639)</b>	<b>(27,670,780)</b>	<b>(29,156,237)</b>	<b>(30,155,328)</b>	<b>(30,830,883)</b>	<b>(31,532,025)</b>	<b>(32,091,511)</b>	<b>(32,948,633)</b>	<b>(34,350,855)</b>	<b>(34,350,855)</b>	<b>(331,270,218)</b>
Less Memorial Gardens Remaining Ten Year Commitment	300,000											300,000
Adjusted Target Policy	<b>(41,674,327)</b>	<b>(40,559,639)</b>	<b>(27,670,780)</b>	<b>(29,156,237)</b>	<b>(30,155,328)</b>	<b>(30,830,883)</b>	<b>(31,532,025)</b>	<b>(32,091,511)</b>	<b>(32,948,633)</b>	<b>(34,350,855)</b>	<b>(34,350,855)</b>	<b>(330,970,218)</b>
(\$ Available) \$Funding Needed	<b>(2,511)</b>	<b>200,002</b>	<b>769,995</b>	<b>3,491</b>	<b>90,920</b>	<b>(337,228)</b>	<b>93,748</b>	<b>(1,862,876)</b>	<b>71,514</b>	<b>858,698</b>	<b>(114,247)</b>	

**2022 WATER AND WASTEWATER  
CAPITAL BUDGET SUMMARY AND  
CAPITAL FORECAST FOR 2023 TO 2031**

**2022 Water and Wastewater Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit**

	Project Classification	LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Wastewater</b>													
3700SS - Seymour St. - Station to Wallace - Widening and Signals	G	-	-	-	60,000	-	1,100,000	-	-	-	-	-	1,160,000
3719SS - Digester Replacement	R AIM	3,000,000	1,500,000	-	-	-	-	-	-	-	-	-	4,500,000
3801SS - McKeown Ave. Widening - Gormanville to Cartier	R G	75,000	1,175,000	-	-	-	-	-	-	-	-	-	1,250,000
3802SS - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	AIM	-	-	-	-	-	-	-	160,000	-	3,000,000	-	3,160,000
3810SS - Main St. - Gormanville to Memorial	G	-	-	-	-	-	-	-	220,000	-	4,100,000	-	4,320,000
3818SS - Premier Pumping Station Replacement	AIM	480,000	2,370,000	-	-	-	-	-	-	-	-	-	2,850,000
3825SS - Wastewater Treatment Plant - Intake Chamber Replacement	AIM	-	300,000	2,800,000	1,700,000	-	-	-	-	-	-	-	4,800,000
3826SS - Pumping Station Replacement	AIM	-	-	1,900,000	2,750,000	-	-	1,500,000	5,000,000	2,500,000	3,500,000	2,500,000	19,650,000
3829SS - Wastewater Treatment Plant - Structural Repair*	R AIM	995,839	540,000	950,000	500,000	-	-	-	700,000	900,000	-	1,400,000	5,985,839
3900SS - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	-	-	-	20,000	1,500,000	-	-	-	-	-	1,520,000
3909SS - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	-	50,000	-	900,000	-	-	-	-	950,000
3919SS - Metcalfe St - Laurier to End	AIM	30,000	-	-	-	400,000	-	-	-	-	-	-	430,000
3920SS - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	20,000	-	-	-	-	-	-	400,000	-	-	-	420,000
3932SS - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	40,000	-	825,000	825,000	-	-	-	-	-	-	-	1,690,000
3935SS - Marshall 500 mm Forcemain Condition Assessment and Rehab	AIM	-	500,000	-	-	-	-	-	-	-	-	-	500,000
4030SS - Sanitary Sewer Relining	AIM	-	-	-	400,000	-	200,000	-	-	125,000	-	-	725,000
4032SS - O'Brien St. Reconstruction - Cassells to Ski Club	AIM	-	-	-	-	-	160,000	-	-	-	1,500,000	-	1,660,000
4037SS - Sage Area Trunk Sewer Improvements	AIM	-	-	-	500,000	-	3,000,000	-	-	-	-	-	3,500,000
4103SS - Wastewater Treatment Plant Expansion	R AIM	-	1,900,000	-	-	7,000,000	-	-	250,000	9,350,000	-	-	18,500,000
4115SS - Innovation Hub	G	10,000	-	100,000	-	-	-	-	-	-	-	-	110,000



2022 Water and Wastewater Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit

	Project Classification	LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Wastewater</b>													
4118SS - King's Landing Pumping Station Replacement	AIM	75,000	-	1,500,000	-	-	-	-	-	-	-	-	1,575,000
4124SS - Francis St. Sewer Upsizing (Surrey to Greenhill)	G	-	-	-	-	-	80,000	-	-	1,500,000	-	-	1,580,000
4125SS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R AIM	-	-	320,000	-	1,500,000	-	1,500,000	-	-	-	-	3,320,000
4204SS - Wastewater Treatment Plant - Roof Rehab	AIM	-	-	250,000	250,000	-	250,000	-	250,000	-	-	250,000	1,250,000
4300SS - Airport Industrial Park Expansion	F G	-	-	150,000	-	-	-	-	2,900,000	-	-	-	3,050,000
4401SS - Sage Rd. Reconstruction to Collector Standard	G	-	-	-	-	-	-	-	20,000	-	-	900,000	920,000
4402SS - Chippewa Trunk Sewer Major Rehabilitation & Replacement	AIM	-	-	-	200,000	-	1,000,000	2,500,000	-	-	-	-	3,700,000
4500SS - Franklin & John Trunk Watermain	SI	-	-	-	-	-	110,000	-	2,100,000	-	-	-	2,210,000
6640SS - Sewage Lift Stations 2022 On-going	AIM	-	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	800,000
6646SS - Design Work Next Year's Projects 2022 On-going	AIM	-	33,000	34,000	35,000	36,000	37,000	38,000	39,000	40,000	40,000	40,000	372,000
6652SS - Wastewater Treatment Plant Rehab 2022 On-going	AIM	-	-	200,000	-	150,000	-	150,000	-	150,000	-	150,000	800,000
6676SS - Wastewater Treatment Plant - Electrical Upgrades 2022 On-going	AIM	-	200,000	250,000	250,000	250,000	250,000	250,000	258,000	260,000	260,000	260,000	2,488,000
6678SS - Wastewater Treatment Plant Exterior Rehab 2022 On-going	AIM	-	150,000	300,000	-	300,000	-	450,000	-	300,000	-	3,000,000	4,500,000
6681SS - Sewer Rehab and Restoration 2022 On-going	AIM	-	250,000	250,000	250,000	250,000	250,000	250,000	258,000	260,000	260,000	260,000	2,538,000
6683SS - Infrastructure Modelling 2022 On-going	AIM	-	-	-	-	10,000	-	-	-	10,000	-	-	20,000
6685SS - Digester and Grit Removal 2022 On-going	AIM	-	-	109,000	-	-	109,000	-	-	109,000	-	150,000	477,000
6686SS - Engineering Data and Equipment 2022 On-going	SI	-	5,000	5,000	5,000	20,000	5,000	5,000	5,000	20,000	20,000	20,000	110,000
<b>Total Wastewater Water</b>		<b>4,725,839</b>	<b>9,003,000</b>	<b>10,023,000</b>	<b>7,805,000</b>	<b>10,066,000</b>	<b>8,131,000</b>	<b>7,623,000</b>	<b>12,640,000</b>	<b>15,604,000</b>	<b>12,760,000</b>	<b>9,010,000</b>	<b>107,390,839</b>
3700WS - Seymour St. - Station to Wallace - Widening and Signals	G	-	-	-	200,000	-	3,800,000	-	-	-	-	-	4,000,000
3701WS - Norman/Chapais Connection Watermain	SI	-	-	-	-	-	60,000	-	-	-	-	800,000	860,000
3801WS - McKeown Ave. Widening - Gormanville to Cartier	R G	75,000	1,125,000	-	-	-	-	-	-	-	-	-	1,200,000

**2022 Water and Wastewater Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit**

	Project Classification	LTD Approved Budget											Total	
			2022	2023	2024	2025	2026	2027	2028	2029	2030	2031		
<b>Water</b>														
3802WS - Lakeshore Dr. - Trunk Watermain and Sewer - Phase 2 - Gertrude to Marshall	AIM	-	-	-	-	-	-	-	-	160,000	-	3,000,000	-	3,160,000
3810WS - Main St. - Gormanville to Memorial	G	-	-	-	-	-	-	-	-	60,000	-	1,200,000	-	1,260,000
3828WS - West Ferris Trunk Watermain Relining	AIM	975,060	-	-	2,245,200	-	-	-	-	-	-	-	-	3,220,260
3900WS - Cedar Heights Rd. - Highway 11 to Larocque Urban Upgrade and Watermain	SI	-	-	-	-	100,000	1,800,000	-	-	-	-	-	-	1,900,000
3905WS - Cedar Heights Rd. - Larocque BPS	G	-	-	-	50,000	-	-	4,000,000	-	-	-	-	-	4,050,000
3909WS - Worthington, Wyld, Sherbrooke, Second 4" Watermain Replacement	AIM	-	-	-	-	50,000	-	1,000,000	-	-	-	-	-	1,050,000
3912WS - Integrated Software Solution	AIM	16,000	2,000,000	-	-	-	-	-	-	-	-	-	-	2,016,000
3919WS - Metcalfe St - Laurier to End	AIM	30,000	-	-	-	400,000	-	-	-	-	-	-	-	430,000
3920WS - O'Brien Street - Ski Club to Airport & Ski Club Signals	AIM	20,000	-	-	-	-	-	-	-	400,000	-	-	-	420,000
3932WS - Lakeshore Dr. - Jessups Creek to Premier Road	AIM	30,000	-	725,000	725,000	-	-	-	-	-	-	-	-	1,480,000
3936WS - Watermain - Cathodic Protection Program	AIM	200,000	50,000	-	-	-	-	-	-	-	-	-	-	250,000
4003WS - Membrane Module Replacement	R AIM	-	-	-	1,870,000	1,370,000	-	-	-	-	-	-	-	3,240,000
4031WS - Public Works Building Rehab	AIM	-	-	-	100,000	-	200,000	-	-	-	1,000,000	-	-	1,300,000
4032WS - O'Brien St. Reconstruction - Cassells to Ski Club	AIM	-	-	-	-	-	160,000	-	-	-	-	1,600,000	-	1,760,000
4102WS - Ellendale Pumping Station Second Feed to Airport	AIM	-	-	-	200,000	-	-	1,500,000	1,000,000	-	-	-	-	2,700,000
4115WS - Innovation Hub	AIM	20,000	-	400,000	-	-	-	-	-	-	-	-	-	420,000
4124WS - Francis St. Sewer Upsizing (Surrey to Greenhill)	G	-	-	-	-	-	80,000	-	-	-	1,400,000	-	-	1,480,000
4125WS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	R AIM	-	-	320,000	-	1,500,000	-	1,500,000	-	-	-	-	-	3,320,000
4212WS - Water Treatment Plant Major Equipment Replacement	AIM	-	-	-	-	-	-	-	-	-	-	300,000	4,500,000	4,800,000
4213WS - Airport Standpipe Major Equipment Replacement	AIM	-	-	-	-	-	-	-	-	-	-	300,000	1,000,000	1,300,000

2022 Water and Wastewater Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit

	Project Classification	LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total	
<b>Water</b>														
4214WS - Ellendale Structural Repairs	AIM	-	-	-	-	-	-	-	-	-	300,000	4,500,000	4,800,000	
4300WS - Airport Industrial Park Expansion	F G	-	-	260,000	-	-	-	-	4,800,000	-	-	-	5,060,000	
4401WS - Sage Rd. Reconstruction to Collector Standard	G	-	-	-	-	-	-	-	60,000	-	-	900,000	960,000	
4500WS - Franklin & John Trunk Watermain	SI	-	-	-	-	-	150,000	-	2,800,000	-	-	-	2,950,000	
6610WS - City Share of Development Costs 2022 On-going	G	-	293,000	302,000	311,000	320,000	330,000	340,000	350,000	360,000	360,000	360,000	3,326,000	
6613WS - Watermain Rehab and Restoration 2022 On-going	R AIM	-	818,000	818,000	818,000	818,000	818,000	818,000	843,000	845,000	845,000	845,000	8,286,000	
6644WS - Water Plant Maintenance 2022 On-going	AIM	-	-	300,000	-	300,000	300,000	300,000	309,000	310,000	310,000	310,000	2,439,000	
6645WS - Watermain Replace/Ream/Reline 2022 On-going	AIM	-	215,000	221,000	221,000	221,000	221,000	221,000	228,000	230,000	230,000	230,000	2,238,000	
6646WS - Design Work Next Year's Projects 2022 On-going	AIM	-	119,000	122,000	125,000	128,000	132,000	136,000	140,000	140,000	140,000	140,000	1,322,000	
6649WS - Flush Watermains 2022 On-going	AIM	-	200,000	200,000	200,000	200,000	200,000	200,000	206,000	210,000	210,000	210,000	2,036,000	
6650WS - Asset Management 2022 On-going	AIM	-	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	750,000	
6654WS - System Technology Program 2022 On-going	AIM	-	127,131	131,072	131,072	131,072	131,072	131,072	135,014	135,014	135,014	135,014	1,322,547	
6679WS - Public Works Building Maintenance 2022 On-going	AIM	-	25,000	25,000	25,000	25,000	25,000	25,000	26,000	26,000	26,000	26,000	254,000	
6680WS - Equipment Replacement 2022 On-going	AIM	-	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	150,000	
6683WS - Infrastructure Modelling 2022 On-going	AIM	-	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	50,000	
6689WS - Water Reservoir Upgrades 2022 On-going	AIM	-	284,000	293,000	293,000	293,000	293,000	293,000	300,000	300,000	300,000	300,000	2,949,000	
<b>Total Water</b>			<b>1,366,060</b>	<b>5,351,131</b>	<b>4,212,072</b>	<b>7,609,272</b>	<b>5,951,072</b>	<b>8,795,072</b>	<b>10,559,072</b>	<b>11,912,014</b>	<b>5,051,014</b>	<b>9,351,014</b>	<b>14,351,014</b>	<b>84,508,807</b>
<b>Total Water and Wastewater Reserve Funding (R)</b>			<b>6,091,899</b>	<b>14,354,131</b>	<b>14,235,072</b>	<b>15,414,272</b>	<b>16,017,072</b>	<b>16,926,072</b>	<b>18,182,072</b>	<b>24,552,014</b>	<b>20,655,014</b>	<b>22,111,014</b>	<b>23,361,014</b>	<b>191,899,646</b>
3719SS - Digester Replacement			(350,000)	-	-	-	-	-	-	-	-	-	(350,000)	
3801SS - McKeown Ave. Widening - Gormanville to Cartier		(18,750)	(293,750)	-	-	-	-	-	-	-	-	-	(312,500)	
3801WS - McKeown Ave. Widening - Gormanville to Cartier		(18,750)	(281,250)	-	-	-	-	-	-	-	-	-	(300,000)	
3829SS - Wastewater Treatment Plant - Structural Repair		(497,000)	(170,000)	(116,000)	-	-	-	-	-	-	-	-	(783,000)	

2022 Water and Wastewater Capital Budget and Capital Forecast for 2023 to 2031 by Business Unit

Project Classification	LTD Approved Budget	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Total
<b>Reserve Funding (R)</b>												
4003WS - Membrane Module Replacement	-	-	-	(597,000)	-	-	-	-	-	-	-	(597,000)
4103SS - Wastewater Treatment Plant Expansion	-	(133,000)	-	-	-	-	-	-	-	-	-	(133,000)
4125SS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	-	-	(255,000)	-	-	-	-	-	-	-	-	(255,000)
4125WS - Lakeshore Dr. Area - Trunk Watermain and Sewer - Phase 1 - Judge to Gertrude	-	-	(110,000)	-	-	-	-	-	-	-	-	(110,000)
6613WS - Watermain Rehab and Restoration 2022 On-going	-	(240,000)										(240,000)
<b>Total Reserve Funding</b>	<b>(534,500)</b>	<b>(1,468,000)</b>	<b>(481,000)</b>	<b>(597,000)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(3,080,500)</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)
<b>Total Grants and Other Funding Sources</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(5,081,218)</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>(5,081,218)</b>
<b>Net Water and Wastewater Capital Budget</b>	<b>5,557,399</b>	<b>12,886,131</b>	<b>13,754,072</b>	<b>14,817,272</b>	<b>16,017,072</b>	<b>16,926,072</b>	<b>18,182,072</b>	<b>19,470,796</b>	<b>20,655,014</b>	<b>22,111,014</b>	<b>23,361,014</b>	<b>183,737,928</b>
<b>Capital Funding Policy Limit</b>												
Capital Levy In Water and Wastewater Budget		(9,887,447)	(10,730,310)	(11,822,396)	(12,863,584)	(14,135,699)	(15,345,986)	(16,629,173)	(17,694,046)	(19,130,976)	(20,344,443)	(148,584,060)
Debtenture 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>(12,887,447)</b>	<b>(13,730,310)</b>	<b>(14,822,396)</b>	<b>(15,863,584)</b>	<b>(17,135,699)</b>	<b>(18,345,986)</b>	<b>(19,629,173)</b>	<b>(20,694,046)</b>	<b>(22,130,976)</b>	<b>(23,344,443)</b>	<b>(178,584,060)</b>
<b>(\$ Available) \$Funding Needed</b>		<b>(1,316)</b>	<b>23,762</b>	<b>(5,124)</b>	<b>153,488</b>	<b>(209,627)</b>	<b>(163,914)</b>	<b>(158,377)</b>	<b>(39,032)</b>	<b>(19,962)</b>	<b>16,571</b>	<b>(403,531)</b>

\* Pre-commitment of \$540,000 as per Report to Council Number CORP 2021-68

**CAPITAL PROJECT INFORMATION SHEETS  
BY PROJECT NUMBER**

<b>Number:</b>	3216GG	<b>Scenario:</b>	Main
<b>Title:</b>	Capital Financing	<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 - General Government	<b>Project Type:</b>	GENERAL GOVERNMENT
<b>Budget Year:</b>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project is in line with the Long Term Capital Funding Policy to put aside two percent of the total Capital Financing Policy to pay for unfunded capital projects to 2021 then reduced to one percent of the total capital financing policy.	

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

<b>Forecast</b>	<b>Project Detailed 2022</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>2022</td><td>269,323</td><td>269,323</td><td>0</td></tr> <tr><td>2023</td><td>247,846</td><td>247,846</td><td>0</td></tr> <tr><td>2024</td><td>276,708</td><td>276,708</td><td>0</td></tr> <tr><td>2025</td><td>291,562</td><td>291,562</td><td>0</td></tr> <tr><td>2026</td><td>301,553</td><td>301,553</td><td>0</td></tr> <tr><td>2027</td><td>308,309</td><td>308,309</td><td>0</td></tr> <tr><td>2028</td><td>315,320</td><td>315,320</td><td>0</td></tr> <tr><td>2029</td><td>320,915</td><td>320,915</td><td>0</td></tr> <tr><td>2030</td><td>329,486</td><td>329,486</td><td>0</td></tr> <tr><td>2031</td><td>343,509</td><td>343,509</td><td>0</td></tr> <tr> <td></td> <td><b>3,004,531</b></td> <td><b>3,004,531</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 4,346,492</td> <td colspan="2"><b>Total Project Cost:</b> 7,351,023</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2022	269,323	269,323	0	2023	247,846	247,846	0	2024	276,708	276,708	0	2025	291,562	291,562	0	2026	301,553	301,553	0	2027	308,309	308,309	0	2028	315,320	315,320	0	2029	320,915	320,915	0	2030	329,486	329,486	0	2031	343,509	343,509	0		<b>3,004,531</b>	<b>3,004,531</b>	<b>0</b>	<b>LTD Amount:</b> 4,346,492		<b>Total Project Cost:</b> 7,351,023		<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>3199</td> <td>MISC PROFESSIONAL FEES</td> <td>271,323</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>271,323</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>271,323</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>271,323</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3199	MISC PROFESSIONAL FEES	271,323	<b>Total Expense:</b>		<b>271,323</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	271,323	<b>Total Revenue:</b>		<b>271,323</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-Original</b>	<b>Completion Date</b>
2012	Jan 1, 2012	N/A	Margaret Karpenko	Dec 31, 2031

<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>	2022	<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 and as such are not considered an on-going nuisance hazard but rather a larger scale community protection concern.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	200,000	200,000	0														
	<b>200,000</b>	<b>200,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 200,000																

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2026	75 Years	Adam Lacombe	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>	2022	<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 2021, 2024 and 2027 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 2022</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>300,000</td> <td>300,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>900,000</b></td> <td><b>900,000</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> 1,200,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	300,000	300,000	0	2027	300,000	300,000	0	2031	300,000	300,000	0		<b>900,000</b>	<b>900,000</b>	<b>0</b>	<b>LTD Amount:</b> 300,000		<b>Total Project Cost:</b> 1,200,000		
Budget Year	Total Expense	Total Revenue	Difference																						
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<b>LTD Amount:</b> 300,000		<b>Total Project Cost:</b> 1,200,000																							

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

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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, a number of 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 2022</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:</b> 0		<b>Total Project Cost:</b> 100,000															

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2026	N/A	Adam Lacombe	Dec 31, 2026

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This program provides for the development of new parks within the City. The development of the new parks are 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 2022</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: 600,000</b>																							

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2025	TBD	David 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>	2022	<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.	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).

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2017	TBD	Beverley Hillier	Dec 31, 2026

<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>	2022	<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:</p> <ol style="list-style-type: none"> <li>1. 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.</li> <li>2. Directed Staff to complete the Schedule C, Class EA Report and table it for the 30 day review period.</li> </ol> <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 2022																												
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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-Original	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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>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 3700SS/ST/WS and 4500RD/SS/ST/WS.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	180,000	180,000	0																		
2026	3,400,000	3,400,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,580,000</b>																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2024	25 Years	Adam Lacombe	Dec 31, 2027

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>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/ST/WS and 4500RD/SS/ST/WS.</p>

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Budget Year	Total Expense	Total Revenue	Difference																		
2024	60,000	60,000	0																		
2026	1,100,000	1,100,000	0																		
	<b>1,160,000</b>	<b>1,160,000</b>	<b>0</b>																		
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,160,000																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2024	75 Years	Adam Lacombe	Dec 31, 2027

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>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/WS and 4500RD/SS/ST/WS.</p>

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Budget Year	Total Expense	Total Revenue	Difference																		
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<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,370,000																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2024	75 Years	Adam Lacombe	Dec 31, 2027

<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>	2022	<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>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 2022																				
<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>200,000</td> <td>200,000</td> <td>0</td> </tr> <tr> <td>2026</td> <td>3,800,000</td> <td>3,800,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>4,000,000</b></td> <td><b>4,000,000</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: 4,000,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	200,000	200,000	0	2026	3,800,000	3,800,000	0		<b>4,000,000</b>	<b>4,000,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 4,000,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2024	75 Years	Adam Lacombe	Dec 31, 2027



<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>	2022	<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 project includes 3701ST/WS.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 project includes 3701RD/WS.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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2026	40,000	40,000	0																		
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 project includes 3701RD/ST.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 2023/24 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 2023 and construction to follow in 2024/25.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2022																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2023	200,000	200,000	0																		
2024	1,800,000	1,800,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,000,000</b>																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2023	TBD	David Jackowski	Dec 31, 2024

<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>	2022	<b>Active:</b>	Yes

Description	Comments
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>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 has been 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>The project is shovel ready and will be presented to Council through the 2022 Capital Budget and Nine Year Plan for direction to complete the Tendering process for the project in early 2022.</p> <p>Related projects include 4025RD.</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2022		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2022	16,500,000	16,500,000	0	3425	CONSTRUCTION CONTRACT	16,500,000
2023	18,775,000	18,775,000	0			
	<b>35,275,000</b>	<b>35,275,000</b>	<b>0</b>	<b>Total Expense: 16,500,000</b>		
<b>LTD Amount: 6,500,000</b>		<b>Total Project Cost: 41,775,000</b>				
				0461	TSF FRM REV FUND-PAYGO	1,458,000
				0608	CANADA COMMUNITY - BUILDING FUND (FEDERAL GAS TAX)	6,920,792
				285	DEBENTURE	8,121,208
				<b>Total Revenue:</b>		<b>16,500,000</b>

Related Projects			Operating Impacts
Year Identified	Start Date	Useful Life	Manager-Original
			Completion Date

2016	Sep 1, 2017	60 Years	David Jackowski	Dec 31, 2023
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<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>	2022	<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 projects include 4005RD and 4025RD.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2017	Jan 1, 2020	25 Years	Adam Lacombe	Nov 15, 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>	2022	<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.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>Related projects include 3801ST/SS/WS.</p>

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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2011	Jan 1, 2020	25 Years	Reid Porter	Nov 15, 2023

<b>Number:</b>	3801SS	<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 (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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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2011	Jan 1, 2020	75 Years	Reid Porter	Nov 15, 2023

<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>	2022	<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>Related projects include 3801RD/SS/WS.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2020	75 Years	Reid Porter	Nov 15, 2023

<b>Number:</b>	3801WS	<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 (Water and Wastewater)	<b>Strategic Plans:</b>	Growth / Economic Development,...
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>Related projects include 3801RD/ST/SS.</p>

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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2011	Jan 1, 2020	75 Years	Reid Porter	Nov 15, 2023

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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 upgrading the road to a five lane configuration.</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 three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 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>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 upgrading the road to a five lane configuration.</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 three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 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 2022																				
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 upgrading the road to a five lane configuration.</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 three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 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 2022																				
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 upgrading the road to a five lane configuration.</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 three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 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

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Related Projects	Operating Impacts

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



<b>Number:</b>	3809RD	<b>Scenario:</b>	Main
<b>Title:</b>	Hammond St. Bridge 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the removal and replacement of the Hammond Street Bridge. The bridge will be replaced by a box culvert type structure.	The removal of the Hammond Street bridge across Chippewa Creek was the original preferred alternative derived from an Environmental Assessment to look at the various alternatives. Design work completed since then has determined that the costs to remove the existing bridge and create two cul-de-sacs are comparable to the costs to install a new box culvert (culverts on Chippewa Creek at Milani, O'Brien, and High have recently been replaced with box culverts and demonstrated it to be an economical option). A new box culvert on Hammond would also maintain the current ease of snow clearing maintenance compared with two new cul-de-sacs.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2010	Jan 1, 2019	50 Years	Reid Porter	Nov 15, 2022

<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>	2022	<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. Also, the condition of the watermain will be evaluated for repair/rehab/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 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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. Also, the condition of the watermain will be evaluated for repair/rehab/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 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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. Also, the condition of the watermain will be evaluated for repair/rehab/reconstruction needs.</p> <p>Related projects include 3810RD/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-Original	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>	2022	<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. Also, the condition of the watermain will be evaluated for repair/rehab/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 2022</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>60,000</td> <td>60,000</td> <td>0</td> </tr> <tr> <td>2030</td> <td>1,200,000</td> <td>1,200,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,260,000</b></td> <td><b>1,260,000</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> 1,260,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2028	60,000	60,000	0	2030	1,200,000	1,200,000	0		<b>1,260,000</b>	<b>1,260,000</b>	<b>0</b>	<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,260,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2028	60,000	60,000	0																		
2030	1,200,000	1,200,000	0																		
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<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 1,260,000																			

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

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 rehab 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 rehab works have been identified for the future.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2023 to 2031: 2026 Perform a bridge inspection and assessment 2028 Repairs and rehab based on the assessment performed in 2026

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	25,000	25,000	0																		
2028	250,000	250,000	0																		
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<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 275,000																				

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2018	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2028

<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>	2022	<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 rehab works were carried out in 2017 including rehabilitation to the wearing surface, sidewalk, curb, median and barrier walls.  Additional rehab works have been identified for the future.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2023 to 2031: 2026 Perform a bridge inspection and assessment 2028 Repairs and rehab based on the assessment performed in 2026

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2018	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2028

<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>	2022	<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.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
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<b>Forecast</b>		<b>Project Detailed 2022</b>																																												
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<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-Original</b>	<b>Completion Date</b>
2018	Jan 1, 2020	25 Years	Reid Porter	Dec 31, 2024



<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services for the rehab/reconstruction of the retaining wall and storm drainage system. Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction technical assistance.	<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 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, leading to water pooling on the adjacent roadway.</p> <p>Project 4006RD - Trout Lake Road (Mountainview to Lees Road) involves the reconstruction of the roadway adjacent to the wall.</p> <p>Related project includes 3815ST and 4006RD.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2018	Jan 1, 2022	50 Years	Adam Lacombe	Dec 31, 2027

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction services for the rehab/reconstruction of the retaining wall and storm drainage system. Engineering services will include preliminary design, detailed design, agency approvals, contract drawings, specifications, tendering, and construction technical assistance.	<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 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, leading to water pooling on the adjacent roadway.</p> <p>Project 4006RD 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 2022</b>																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2018	Jan 1, 2022	75 Years	Adam Lacombe	Dec 31, 2027

<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>	2022	<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.  Related project includes 3818SS.	

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

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7010	ADMINISTRATION & OVERHEAD	9,000																																											
<b>Total Expense:</b>		<b>450,000</b>																																											
<b>Revenue</b>																																													
0461	TSF FRM REV FUND-PAYGO	322,000																																											
0470	TSF FROM RESERVE FUND	128,000																																											
<b>Total Revenue:</b>		<b>450,000</b>																																											

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

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2018	Jan 1, 2021	25 Years	Gerry McCrank	Dec 31, 2023

<b>Number:</b>	3818SS	<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 (Water and Wastewater)	<b>Strategic Plans:</b>	Infrastructure / Sustainability
<b>Division:</b>	Capital - Sewer	<b>Project Type:</b>	SANITARY SEWER
<b>Budget Year:</b>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program will allow for 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.  Related project includes 3818RD.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2018	Jan 1, 2021	50 Years	Gerry McCrank	Dec 31, 2023

<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>	2022	<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	90,000	90,000	0
	<b>90,000</b>	<b>90,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 90,000		

<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-Original</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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the rehabilitation / replacement of the Wastewater Treatment Plant intake chamber.	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 look at the option to create a second intake chamber for redundancy and to increase reliability and looks 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 2022</b>																																																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project involves the engineering and construction services for the rehab/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>	
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<b>Forecast</b>		<b>Project Detailed 2022</b>																																									
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<b>Related Projects</b>		<b>Operating Impacts</b>	
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Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2018	Jan 1, 2023	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>	2022	<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 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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	2,245,200	2,245,200	0
	<b>2,245,200</b>	<b>2,245,200</b>	<b>0</b>
<b>LTD Amount:</b> 975,060		<b>Total Project Cost:</b> 3,220,260	

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

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



<b>Number:</b>	3829SS	<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The 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.</p> <p>Other structural repairs of buildings, roofs, tunnels and channels are also required.</p>	<p>The Wastewater Treatment Plant has many concrete tanks that are used for process treatment streams. Although most of the tanks are relatively new (constructed in 1983) and their structural integrity generally appears satisfactory, 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. Joints have spilled and must be repaired before further serious damage and leaking occurs.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																															
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2013	Jan 1, 2018	25 Years	Karin Pratte	Dec 31, 2031

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program involves the construction of LFG collection system in each of the landfill cells as the landfill expands. 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 2022</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-Original</b>	<b>Completion Date</b>
2014	Jan 1, 2021	20 Years	Karin Pratte	Dec 31, 2030

<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>	2022	<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 800 m. 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 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
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>	2022	<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 800 m. 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 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 800 m. 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 2022</b>			
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>				
2025	50,000	50,000	0				
2026	700,000	700,000	0				
	<b>750,000</b>	<b>750,000</b>	<b>0</b>				
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 750,000					
<b>Related Projects</b>				<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>			<b>Completion Date</b>	
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>	2022	<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 800 m. 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>

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<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2014	Jan 1, 2025	75 Years	Adam Lacombe	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>	2022	<b>Active:</b>	Yes

Description	Comments
<p>This project is to provide for the construction of the Larocque 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>

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<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 4,050,000																				

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2013	Jan 1, 2024	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>	2022	<b>Active:</b>	Yes

Description	Comments
<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>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the replacement of 100 mm watermains in various locations of the downtown area, including 100 mm 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, 100 mm 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, the recent Fire Underwriter's Survey identified an excessive amount of 100 mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100 mm 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 project includes 3909SS/ST/WS.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the replacement of 100 mm watermains in various locations of the downtown area, including 100 mm 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, 100 mm 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, the recent Fire Underwriter's Survey identified an excessive amount of 100 mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100 mm 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 project includes 3909RD/ST/WS.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

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

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the replacement of 100 mm watermains in various locations of the downtown area, including 100 mm 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, 100 mm 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, the recent Fire Underwriter's Survey identified an excessive amount of 100 mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100 mm 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 project includes 3909RD/SS/WS.</p>

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

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

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for the replacement of 100 mm watermains in various locations of the downtown area, including 100 mm 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, 100 mm 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, the recent Fire Underwriter's Survey identified an excessive amount of 100 mm watermains within the city, resulting in a negative impact on the City's overall scoring. Replacement of the 100 mm 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 project includes 3909RD/SS/ST.</p>

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

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

<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>	2022	<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>

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2009	Jan 1, 2022	50 Years	Adam Lacombe	Dec 31, 2025

<b>Number:</b>	3912GG	<b>Scenario:</b>	Main
<b>Title:</b>	Integrated Software Solution	<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>One of the six pillars of the City of North Bay's business plan is to strategically implement and utilize technology to achieve corporate goals. In keeping with this corporate objective, the vision for the Enterprise Resource Planning (ERP) project is to implement an integrated ERP system that supports staff in the delivery of municipal programs and services; takes advantage of best practices; and significantly improves the efficiency and effectiveness of the City's work processes.</p> <p>The City of North Bay has used Naviline HTE (now SunGard Public Sector) for approximately twenty years. The applications include general ledger, cash, purchasing, billing (water/tax), building, work orders, code enforcement, human resources, payroll, accounts receivable, accounts payable, transit and licensing. Due to changing technologies, it is appropriate to re-evaluate the current system, evaluate other systems and determine if an alternative solution can provide enhancements in service delivery and administrative efficiencies can be gained.</p>	<p>BDO was engaged and completed a needs analysis. Their conclusion is the City's existing ERP system does not realize many of the intended efficiencies of an effective ERP system.</p> <p>In order for a new implementation to be successful a significant financial and human resource commitment is required.</p> <p>Pursuing an integrated ERP strategy is different than a 'best of breed' approach. BDO is supportive of an integrated ERP strategy to reduce the overall cost of technology ownership, to enhance processes and data integration, reporting and to reduce complexity and duplication of tasks.</p> <p>An information Systems Review with Blackline Consulting has been completed and this project aligns with the recommendations contained in the report accepted by Council.</p> <p>Related project includes 3912WS.</p>

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

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2011	Jan 1, 2021	TBD	Margaret Karpenko	Dec 31, 2023

<b>Number:</b>	3912WS	<b>Scenario:</b>	Main
<b>Title:</b>	Integrated Software Solution	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (Water and Wastewater)	<b>Strategic Plans:</b>	Technology
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>One of the six pillars of the City of North Bay's business plan is to strategically implement and utilize technology to achieve corporate goals. In keeping with this corporate objective, the vision for the Enterprise Resource Planning (ERP) project is to implement an integrated ERP system that supports staff in the delivery of municipal programs and services; takes advantage of best practices; and significantly improves the efficiency and effectiveness of the City's work processes.</p> <p>The City of North Bay has used Naviline HTE (now SunGard Public Sector) for approximately twenty years. The applications include general ledger, cash, purchasing, billing (water/tax), building, work orders, code enforcement, human resources, payroll, accounts receivable, accounts payable, transit and licensing. Due to changing technologies, it is appropriate to re-evaluate the current system, evaluate other systems and determine if an alternative solution can provide enhancements in service delivery and administrative efficiencies can be gained.</p>	<p>BDO was engaged and completed a needs analysis. Their conclusion is the City's existing ERP system does not realize many of the intended efficiencies of an effective ERP system.</p> <p>In order for a new implementation to be successful a significant financial and human resource commitment is required.</p> <p>Pursuing an integrated ERP strategy is different than a 'best of breed' approach. BDO is supportive of an integrated ERP strategy to reduce the overall cost of technology ownership, to enhance processes and data integration, reporting and to reduce complexity and duplication of tasks.</p> <p>An information Systems Review with Blackline Consulting has been completed and this project aligns with the recommendations contained in the report accepted by Council.</p> <p>Related project includes 3912GG.</p>

<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-Original</b>	<b>Completion Date</b>
2011	Jan 1, 2021	TBD	Margaret Karpenko	Dec 31, 2023

<b>Number:</b>	3918RD	<b>Scenario:</b>	Main
<b>Title:</b>	Algonquin/Jane/Front Intersection Addition of Left Turn Lane	<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>	2022	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project involves the engineering and construction services for the reconfiguration of the Algonquin/Jane/Front intersection to add dedicated left turn lanes on Algonquin.		The intersection has experienced higher than standard levels of accidents involving left turns. To mitigate this, dedicated left turns will be added to provide a phase during the signal timing where protected left turns can be made without any through traffic. The works will involve widening the intersection on Algonquin to accommodate the new left turn lanes as well as new median islands to facilitate additional traffic signal heads adjacent to the left turn lanes.	

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

<b>Forecast</b>		<b>Project Detailed 2022</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>2022</td> <td>700,000</td> <td>700,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>700,000</b></td> <td><b>700,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 543,790</td> <td colspan="2"><b>Total Project Cost:</b> 1,243,790</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2022	700,000	700,000	0		<b>700,000</b>	<b>700,000</b>	<b>0</b>	<b>LTD Amount:</b> 543,790		<b>Total Project Cost:</b> 1,243,790			<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>686,000</td> </tr> <tr> <td>7010</td> <td>ADMINISTRATION &amp; OVERHEAD</td> <td>14,000</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>700,000</b></td> </tr> <tr> <td colspan="3"><b>Revenue</b></td> </tr> <tr> <td>0461</td> <td>TSF FRM REV FUND-PAYGO</td> <td>100,000</td> </tr> <tr> <td>5901</td> <td>DEBENTURE PROCEEDS</td> <td>600,000</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>700,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3425	CONSTRUCTION CONTRACT	686,000	7010	ADMINISTRATION & OVERHEAD	14,000	<b>Total Expense:</b>		<b>700,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	100,000	5901	DEBENTURE PROCEEDS	600,000	<b>Total Revenue:</b>		<b>700,000</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-Original</b>	<b>Completion Date</b>
2019	Jan 1, 2019	25 Years	Adam Lacombe	Dec 31, 2022



<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>	2022	<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	700,000	700,000	0
	<b>700,000</b>	<b>700,000</b>	<b>0</b>
<b>LTD Amount:</b> 40,000		<b>Total Project Cost:</b> 740,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2019	Jan 1, 2021	25 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2025

<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>	2022	<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	400,000	400,000	0
	<b>400,000</b>	<b>400,000</b>	<b>0</b>
<b>LTD Amount:</b> 30,000		<b>Total Project Cost:</b> 430,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2019	Jan 1, 2021	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2025

<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>	2022	<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	500,000	500,000	0
	<b>500,000</b>	<b>500,000</b>	<b>0</b>
<b>LTD Amount:</b> 30,000		<b>Total Project Cost:</b> 530,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2019	Jan 1, 2021	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2025

<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>	2022	<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	400,000	400,000	0
	<b>400,000</b>	<b>400,000</b>	<b>0</b>
<b>LTD Amount:</b> 30,000		<b>Total Project Cost:</b> 430,000	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2019	Jan 1, 2021	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2025

<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>	2022	<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2026	70,000	70,000	0
2028	1,300,000	1,300,000	0
	<b>1,370,000</b>	<b>1,370,000</b>	<b>0</b>
<b>LTD Amount:</b> 6,791		<b>Total Project Cost:</b> 1,376,791	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2019	Jan 1, 2019	25 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2028

<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>	2022	<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.</p> <p>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 2022</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2028	400,000	400,000	0														
	<b>400,000</b>	<b>400,000</b>	<b>0</b>														
<b>LTD Amount: 20,000</b>		<b>Total Project Cost: 420,000</b>															

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2019	Jan 1, 2019	75 Years	Reid Porter	Dec 31, 2028

<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>	2022	<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2026	20,000	20,000	0
2028	400,000	400,000	0
	<b>420,000</b>	<b>420,000</b>	<b>0</b>
<b>LTD Amount: 676</b>		<b>Total Project Cost: 420,676</b>	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2019	Jan 1, 2019	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2028

<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>	2022	<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 2022</b>			
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>				
2028	400,000	400,000	0				
	<b>400,000</b>	<b>400,000</b>	<b>0</b>				
<b>LTD Amount:</b> 20,000	<b>Total Project Cost:</b> 420,000						
<b>Related Projects</b>				<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>		<b>Completion Date</b>		
2019	Jan 1, 2019	75 Years	Reid Porter		Dec 31, 2028		



<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the environmental assessment and analysis in order 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 (approx.) 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 in order to extend the lifecycle of the existing Merrick Landfill Site.

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

<b>Forecast</b>	<b>Project Detailed 2022</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>500,000</td> <td>500,000</td> <td>0</td> </tr> <tr> <td>2029</td> <td>7,500,000</td> <td>7,500,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>8,000,000</b></td> <td><b>8,000,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 500,000</td> <td colspan="2"><b>Total Project Cost:</b> 8,500,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2028	500,000	500,000	0	2029	7,500,000	7,500,000	0		<b>8,000,000</b>	<b>8,000,000</b>	<b>0</b>	<b>LTD Amount:</b> 500,000		<b>Total Project Cost:</b> 8,500,000		
Budget Year	Total Expense	Total Revenue	Difference																		
2028	500,000	500,000	0																		
2029	7,500,000	7,500,000	0																		
	<b>8,000,000</b>	<b>8,000,000</b>	<b>0</b>																		
<b>LTD Amount:</b> 500,000		<b>Total Project Cost:</b> 8,500,000																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
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>	2022	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain. 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. Construction will be undertaken by the City's Sewer &amp; Water Department.</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 100 mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>Related projects include 3932ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2022																				
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2016	Jan 1, 2020	25 Years	Gerry McCrank	Dec 31, 2025

<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>	2022	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain. 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. Construction will be undertaken by the City's Sewer &amp; Water Department.</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 100 mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>Related projects include 3932RD/ST/WS.</p>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2025

<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>	2022	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain. 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. Construction will be undertaken by the City's Sewer &amp; Water Department.</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 100 mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>Related projects include 3932RD/SS/WS.</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2025

<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>	2022	<b>Active:</b>	Yes

Description	Comments
<p>The project involves the engineering and construction services for upgrading the existing sanitary sewer and watermain. 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. Construction will be undertaken by the City's Sewer &amp; Water Department.</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 100 mm, which is undersized for proper fire flow and will need to be upsized.</p> <p>Related projects include 3932RD/ST/SS.</p>

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2016	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2025

<b>Number:</b>	3934RD	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. Paving Stone 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>	2022	<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>Related projects include: 3934ST</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																											
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2013	Jan 1, 2020	25 Years	Gerry McCrank	Dec 31, 2023

<b>Number:</b>	3934ST	<b>Scenario:</b>	Main
<b>Title:</b>	Main St. Paving Stone 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>	2022	<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>Related projects include: 3934RD</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-Original	Completion Date
2013	Jan 1, 2020	75 Years	Gerry McCrank	Dec 31, 2023

<b>Number:</b>	3935SS	<b>Scenario:</b>	Main
<b>Title:</b>	Marshall 500 mm Forcemain Condition Assessment and 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project will allow for rehabilitation works as a result of the 2016 condition assessment of the forcemain that identified potential problem areas or failures in the system.	The Marshall Forcemain has been identified as a potential single point failure in the wastewater collection system. This forcemain serves much of the West Ferris area. A failure of this system could result in flooding and back-up of both residential neighborhoods and commercial developments throughout the West Ferris area.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2016	Jan 1, 2022	25 Years	Adam Lacombe	Dec 31, 2022



<b>Number:</b>	3936WS	<b>Scenario:</b>	Main
<b>Title:</b>	Watermain - Cathodic Protection Program	<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for a cathodic protection program to protect City watermains that are being corroded from the outside by adverse soil conditions.	This program extends the useful life of the City's metallic watermains. With the program in place, it is expected that the annual number of watermain breaks will decline. A previous project in this program focused on the 500 mm Birchs Road watermain.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2013	Jan 1, 2021	10 to 20 Years	Adam Lacombe	Dec 31, 2022

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides for the design and construction to replace the Olmstead 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 2022</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-Original	Completion Date
2018	Jan 1, 2023	25 Years	David Schroeder	Dec 31, 2024

<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>	2022	<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 for 10 to 20 years. A longer life cycle depends on the use, maintenance practices and climate. Each year the condition of these fields will be reviewed and the replacement dates adjusted accordingly.	

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

<b>Forecast</b>		<b>Project Detailed 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	600,000	600,000	0
2025	600,000	600,000	0
	<b>1,200,000</b>	<b>1,200,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,200,000		

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

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2019	Jan 1, 2023	10 to 20 Years	David Schroeder	Dec 31, 2025

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project is to replace the membrane module.	The replacement of the membrane module is scheduled to take place in the year 2024 and 2025.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2024	1,870,000	1,870,000	0																		
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	<b>3,240,000</b>	<b>3,240,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,240,000</b>																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2012	Jan 1, 2024	15 Years	Karin Pratte	Dec 31, 2025

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<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 EA.</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 lanes.</p> <p>A contract for engineering services was awarded in 2021.</p> <p>Related projects include 3715RD.</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	90,000	90,000	0
2027	1,600,000	1,600,000	0
	<b>1,690,000</b>	<b>1,690,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,690,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2020	Jan 1, 2024	25 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2027

<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>	2022	<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 2022</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2023	149,200	149,200	0														
	<b>149,200</b>	<b>149,200</b>	<b>0</b>														
<b>LTD Amount: 0</b>		<b>Total Project Cost: 149,200</b>															

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

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 2022</b>																																																		
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
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>	2022	<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 2022</b>																																																						
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<b>Total Revenue:</b>		<b>183,957</b>																																																					

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

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 2022</b>																																																					
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for the construction of new sidewalks to transit stops.	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.  Budget includes funding through the Investing in Canada Infrastructure Program.

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

<b>Forecast</b>	<b>Project Detailed 2022</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-Original</b>	<b>Completion Date</b>
2020	Jan 1, 2020	50 Years	Gerry McCrank	Dec 31, 2026

<b>Number:</b>	4025RD	<b>Scenario:</b>	Main
<b>Title:</b>	Booth Road & 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services to upgrade the intersection at Booth Road and Lakeshore Drive. The impact of additional traffic anticipated to be generated from the new City of North Bay Community and Recreation Centre located at the Steve Omischl Sports Field Complex will require upgrades to the intersection.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management. 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.</p>	<p>The Steve Omischl Sports Field Complex was selected as the site for the new City of North Bay Community and Recreation Centre. The main entrance to the site is located at the Booth Road and Lakeshore Drive intersection and will see an increased traffic load once the City of North Bay Community and Recreation Centre is complete.</p> <p>Related projects include 3711RF &amp; 3715RD</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</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-Original</b>	<b>Completion Date</b>
2020	Jan 1, 2021	25 Years	Reid Porter	Dec 31, 2022

<b>Number:</b>	4027TR	<b>Scenario:</b>	Main
<b>Title:</b>	Bicycle Racks and Related Storage Areas for Transit Riders	<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>	TRANSIT
<b>Budget Year:</b>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project will provide for the purchase and installation of bicycle and related storage racks for transit buses.	This program will provide for the purchase and installation of 21 bicycle racks on transit buses as well as 30 secure bicycle/ personal storage areas throughout the City.  Budget includes funding through the Investing in Canada Infrastructure Program.

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

<b>Forecast</b>	<b>Project Detailed 2022</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-Original</b>	<b>Completion Date</b>
2020	Jan 1, 2021	TBD	Drew Poeta	Dec 31, 2022

<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>	2022	<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.	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.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2020	Jan 1, 2024	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>	2022	<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 including engineering and potential architectural designing would be initiated in 2026.  Through this planning process, it is anticipated that in order to meet operational needs, either significant upgrades to current facilities or the re-configuration or addition of facilities will be completed in 2029.

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

<b>Forecast</b>	<b>Project Detailed 2022</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>100,000</td> <td>100,000</td> <td>0</td> </tr> <tr> <td>2026</td> <td>200,000</td> <td>200,000</td> <td>0</td> </tr> <tr> <td>2029</td> <td>1,000,000</td> <td>1,000,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,300,000</b></td> <td><b>1,300,000</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: 1,300,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	100,000	100,000	0	2026	200,000	200,000	0	2029	1,000,000	1,000,000	0		<b>1,300,000</b>	<b>1,300,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,300,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																						
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2026	200,000	200,000	0																						
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,300,000</b>																							

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

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 Project includes 4032ST/SS/WS and 3920RD/ST/SS/WS.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</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: 5,060,000</b>																							

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2012	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2031

<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>	2022	<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 Project includes 4032RD/ST/WS and 3920RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2022																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,660,000</b>																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2031



<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>	2022	<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 Project includes 4032RD/SS/WS and 3920RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2022																								
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Budget Year	Total Expense	Total Revenue	Difference																						
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,150,000</b>																							

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2031

<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>	2022	<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 Project includes 4032RD/ST/SS and 3920RD/ST/SS/WS.</p>

Scenario Description	Scenario Comments

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Budget Year	Total Expense	Total Revenue	Difference																		
2026	160,000	160,000	0																		
2030	1,600,000	1,600,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,760,000</b>																			

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2031

<b>Number:</b>	4033RD	<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>	2022	<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. Repair and rehabilitation works will be carried out on an on-going basis.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	400,000	400,000	0														
	<b>400,000</b>	<b>400,000</b>	<b>0</b>														
<b>LTD Amount:</b> 347,000		<b>Total Project Cost:</b> 747,000															

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2018	Jan 1, 2021	25 Years	Adam Lacombe	Dec 31, 2021

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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).	The information gathered 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.  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.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
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2029	250,000	250,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 500,000</b>																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2015	Jan 1, 2025	N/A	Adam Lacombe	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>	2022	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
<p>The project involves the engineering and construction services for upsizing of 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>		<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	500,000	500,000	0
2026	3,000,000	3,000,000	0
	<b>3,500,000</b>	<b>3,500,000</b>	<b>0</b>
<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,500,000</b>	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2008	Jan 1, 2024	75 Years	Adam Lacombe
			<b>Completion Date</b>
			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>	2022	<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	1,000,000	1,000,000	0
	<b>1,000,000</b>	<b>1,000,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,000,000		

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

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2011	Jan 1, 2023	15 Years	David Jackowski	Dec 31, 2023

<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>	2022	<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 great risk that a single point failure on either of these feeds would lead to significant 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 2022</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>200,000</td> <td>200,000</td> <td>0</td> </tr> <tr> <td>2027</td> <td>1,500,000</td> <td>1,500,000</td> <td>0</td> </tr> <tr> <td>2028</td> <td>1,000,000</td> <td>1,000,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>2,700,000</b></td> <td><b>2,700,000</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: 2,700,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	200,000	200,000	0	2027	1,500,000	1,500,000	0	2028	1,000,000	1,000,000	0		<b>2,700,000</b>	<b>2,700,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,700,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																						
2024	200,000	200,000	0																						
2027	1,500,000	1,500,000	0																						
2028	1,000,000	1,000,000	0																						
	<b>2,700,000</b>	<b>2,700,000</b>	<b>0</b>																						
<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,700,000</b>																							

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2016	Jan 1, 2024	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>	2022	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project provides for engineering and construction of the expansion and upgrades to the wastewater treatment facility to handle the increasing wastewater volume.		This project provides funds for purchase of additional lands along with design and engineering to increase capacity of a treatment process of the wastewater plant in order to handle increasing wastewater volumes.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
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<b>Forecast</b>				<b>Project Detailed 2022</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>
2022	1,900,000	1,900,000	0	<b>Expense</b>		
2025	7,000,000	7,000,000	0	3425	CONSTRUCTION CONTRACT	1,862,000
2028	250,000	250,000	0	7010	ADMINISTRATION & OVERHEAD	38,000
2029	9,350,000	9,350,000	0	<b>Total Expense:</b>		<b>1,900,000</b>
	<b>18,500,000</b>	<b>18,500,000</b>	<b>0</b>	<b>Revenue</b>		
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 18,500,000			0284	DEVELOPMENT CHARGES	133,000
				0461	TSF FRM REV FUND-PAYGO	1,767,000
				<b>Total Revenue:</b>		<b>1,900,000</b>

<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-Original</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>	2022	<b>Active:</b>	Yes

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

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

<b>Forecast</b>	<b>Project Detailed 2022</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>600,000</td> <td>600,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>600,000</b></td> <td><b>600,000</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: 600,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	600,000	600,000	0		<b>600,000</b>	<b>600,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 600,000</b>		
Budget Year	Total Expense	Total Revenue	Difference														
2024	600,000	600,000	0														
	<b>600,000</b>	<b>600,000</b>	<b>0</b>														
<b>LTD Amount: 0</b>		<b>Total Project Cost: 600,000</b>															

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2024	50 years	Reid Porter	Dec 31, 2024

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction to reduce the vertical crest on Tower Drive to the east of the intersection with Welkin Grove.</p> <p>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</p>	<p>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.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</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>500,000</td> <td>500,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>500,000</b></td> <td><b>500,000</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: 500,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2024	500,000	500,000	0		<b>500,000</b>	<b>500,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 500,000</b>		
Budget Year	Total Expense	Total Revenue	Difference														
2024	500,000	500,000	0														
	<b>500,000</b>	<b>500,000</b>	<b>0</b>														
<b>LTD Amount: 0</b>		<b>Total Project Cost: 500,000</b>															

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2024	25 Years	Reid Porter	Dec 31, 2024

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves the engineering and construction to align the side street approaches.  Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.	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.

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

<b>Forecast</b>	<b>Project Detailed 2022</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>200,000</td> <td>200,000</td> <td>0</td> </tr> <tr> <td>2024</td> <td>3,500,000</td> <td>3,500,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>3,700,000</b></td> <td><b>3,700,000</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: 3,700,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	200,000	200,000	0	2024	3,500,000	3,500,000	0		<b>3,700,000</b>	<b>3,700,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,700,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2023	200,000	200,000	0																		
2024	3,500,000	3,500,000	0																		
	<b>3,700,000</b>	<b>3,700,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,700,000</b>																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2023	25 Years	Adam Lacombe	Dec 31, 2024

<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>	2022	<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 2022</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>1,000,000</td> <td>1,000,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,000,000</b></td> <td><b>1,000,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 110,000</td> <td colspan="2"><b>Total Project Cost:</b> 1,110,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	1,000,000	1,000,000	0		<b>1,000,000</b>	<b>1,000,000</b>	<b>0</b>	<b>LTD Amount:</b> 110,000		<b>Total Project Cost:</b> 1,110,000		
Budget Year	Total Expense	Total Revenue	Difference														
2023	1,000,000	1,000,000	0														
	<b>1,000,000</b>	<b>1,000,000</b>	<b>0</b>														
<b>LTD Amount:</b> 110,000		<b>Total Project Cost:</b> 1,110,000															

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2021	TBD	Beverley Hillier	Dec 31, 2023

<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>	2022	<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 2022</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2023	700,000	700,000	0														
	<b>700,000</b>	<b>700,000</b>	<b>0</b>														
<b>LTD Amount:</b> 40,000		<b>Total Project Cost:</b> 740,000															

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2021	TBD	Beverley Hillier	Dec 31, 2023

<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>	2022	<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 2022</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2023	100,000	100,000	0														
	<b>100,000</b>	<b>100,000</b>	<b>0</b>														
<b>LTD Amount:</b> 10,000		<b>Total Project Cost:</b> 110,000															

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2021	TBD	Beverley Hillier	Dec 31, 2023

<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>	2022	<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 2022</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2023	400,000	400,000	0														
	<b>400,000</b>	<b>400,000</b>	<b>0</b>														
<b>LTD Amount:</b> 20,000		<b>Total Project Cost:</b> 420,000															

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2021	TBD	Beverley Hillier	Dec 31, 2023

<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>	2022	<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	400,000	400,000	0
	<b>400,000</b>	<b>400,000</b>	<b>0</b>
<b>LTD Amount:</b> 20,000		<b>Total Project Cost:</b> 420,000	

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

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2021	Jan 1, 2021	TBD	Beverley Hillier	Dec 31, 2023



<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<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>Engineering services will include survey, design, contract drawings, specifications, tendering, construction inspection, contract administration, and project management.</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 2022</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>1,500,000</td> <td>1,500,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,500,000</b></td> <td><b>1,500,000</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> 1,575,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	1,500,000	1,500,000	0		<b>1,500,000</b>	<b>1,500,000</b>	<b>0</b>	<b>LTD Amount:</b> 75,000		<b>Total Project Cost:</b> 1,575,000		
Budget Year	Total Expense	Total Revenue	Difference														
2023	1,500,000	1,500,000	0														
	<b>1,500,000</b>	<b>1,500,000</b>	<b>0</b>														
<b>LTD Amount:</b> 75,000		<b>Total Project Cost:</b> 1,575,000															

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2021	50 Years	Adam Lacombe	Dec 31, 2023

<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>	2022	<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. Approximately 20,000sqft, the scope includes full replacement of the roof system less decking (membrane, insulation, coverboard and removal of existing).		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.	

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

<b>Forecast</b>		<b>Project Detailed 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2028	25,500	25,500	0
2029	510,000	510,000	0
	<b>535,500</b>	<b>535,500</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 535,500		

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

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2021	Jan 1, 2028	20 Years	David Jackowski	Dec 31, 2029

<b>Number:</b>	4120PZ	<b>Scenario:</b>	Main
<b>Title:</b>	Electronic Building Permit Application Submission Program	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Growth (General)	<b>Strategic Plans:</b>	Technology
<b>Division:</b>	Capital - Community Services	<b>Project Type:</b>	PLANNING & ZONING
<b>Budget Year:</b>	2022	<b>Active:</b>	Yes

Description	Comments
This project provides for the purchase and licensing of an electronic building permit application submission program.	<p>Building services has experienced an increased desire for sustained online building permit application submission as a result of the COVID-19 pandemic. The current process in place is not sustainable and results in more staff time associated with printing, scanning and copying digital files received. A properly designed program should also result in efficiencies for staff and the development industry (online inspection requests, electronic inspections notes, etc.). In addition, physical storage within City Hall is becoming a larger challenge due to the large size and number of paper copies of drawings that are received as part of the building permit application process.</p> <p>Project would include:  - hardware purchase &amp; upgrade for building staff  - 1st year licensing fees</p>

Scenario Description	Scenario Comments

Forecast				Project Detailed 2022		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2022	150,000	150,000	0	<b>Expense</b>		
	<b>150,000</b>	<b>150,000</b>	<b>0</b>	5033	SOFTWARE UPGRADING	147,000
				7010	ADMINISTRATION & OVERHEAD	3,000
					<b>Total Expense:</b>	<b>150,000</b>
				<b>Revenue</b>		
				0461	TSF FRM REV FUND-PAYGO	150,000
					<b>Total Revenue:</b>	<b>150,000</b>

Related Projects			Operating Impacts	
Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2022	TBD	Beverley Hillier	Dec 31, 2022

<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>	2022	<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>

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

<b>Forecast</b>	<b>Project Detailed 2022</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>2022</td> <td>600,000</td> <td>600,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>600,000</b></td> <td><b>600,000</b></td> <td><b>0</b></td> </tr> <tr> <td colspan="2"><b>LTD Amount:</b> 100,000</td> <td colspan="2"><b>Total Project Cost:</b> 700,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2022	600,000	600,000	0		<b>600,000</b>	<b>600,000</b>	<b>0</b>	<b>LTD Amount:</b> 100,000		<b>Total Project Cost:</b> 700,000		<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>3117</td> <td>DESIGN FEES</td> <td>600,000</td> </tr> <tr> <td colspan="2"><b>Total Expense:</b></td> <td><b>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>200,000</td> </tr> <tr> <td>0608</td> <td>CANADA COMMUNITY - BUILDING FUND (FEDERAL GAS TAX)</td> <td>400,000</td> </tr> <tr> <td colspan="2"><b>Total Revenue:</b></td> <td><b>600,000</b></td> </tr> </tbody> </table>	GL Account	Description	Total Amount	<b>Expense</b>			3117	DESIGN FEES	600,000	<b>Total Expense:</b>		<b>600,000</b>	<b>Revenue</b>			0461	TSF FRM REV FUND-PAYGO	200,000	0608	CANADA COMMUNITY - BUILDING FUND (FEDERAL GAS TAX)	400,000	<b>Total Revenue:</b>		<b>600,000</b>
Budget Year	Total Expense	Total Revenue	Difference																																						
2022	600,000	600,000	0																																						
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0608	CANADA COMMUNITY - BUILDING FUND (FEDERAL GAS TAX)	400,000																																							
<b>Total Revenue:</b>		<b>600,000</b>																																							

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2021	15 Years	Reid Porter	Nov 15, 2022

<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>	2022	<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.  Related projects include 4115PK/RD/ST/SS/WS.

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

<b>Forecast</b>	<b>Project Detailed 2022</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>100,000</td> <td>100,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>100,000</b></td> <td><b>100,000</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> 100,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	100,000	100,000	0		<b>100,000</b>	<b>100,000</b>	<b>0</b>	<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 100,000		
Budget Year	Total Expense	Total Revenue	Difference														
2023	100,000	100,000	0														
	<b>100,000</b>	<b>100,000</b>	<b>0</b>														
<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 100,000															

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2023	N/A	Beverley Hillier	Dec 31, 2023

<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>	2022	<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 2022</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	110,000	110,000	0																		
2029	2,100,000	2,100,000	0																		
	<b>2,210,000</b>	<b>2,210,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,210,000</b>																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2012	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2029

<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>	2022	<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 2022</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	80,000	80,000	0														
2029	1,500,000	1,500,000	0														
	<b>1,580,000</b>	<b>1,580,000</b>	<b>0</b>														

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2029

<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>	2022	<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 2022</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	70,000	70,000	0														
2029	1,300,000	1,300,000	0														
	<b>1,370,000</b>	<b>1,370,000</b>	<b>0</b>														

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2029



<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>	2022	<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 2022</b>																
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Budget Year	Total Expense	Total Revenue	Difference														
2026	80,000	80,000	0														
2029	1,400,000	1,400,000	0														
	<b>1,480,000</b>	<b>1,480,000</b>	<b>0</b>														

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2012	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2029

<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>	2022	<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 upgrading the road to a five lane configuration.</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 three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 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 2022																								
<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>620,000</td> <td>620,000</td> <td>0</td> </tr> <tr> <td>2025</td> <td>3,400,000</td> <td>3,400,000</td> <td>0</td> </tr> <tr> <td>2027</td> <td>3,400,000</td> <td>3,400,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>7,420,000</b></td> <td><b>7,420,000</b></td> <td><b>0</b></td> </tr> <tr> <td><b>LTD Amount:</b> 0</td> <td colspan="3"><b>Total Project Cost:</b> 7,420,000</td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2023	620,000	620,000	0	2025	3,400,000	3,400,000	0	2027	3,400,000	3,400,000	0		<b>7,420,000</b>	<b>7,420,000</b>	<b>0</b>	<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 7,420,000			
Budget Year	Total Expense	Total Revenue	Difference																						
2023	620,000	620,000	0																						
2025	3,400,000	3,400,000	0																						
2027	3,400,000	3,400,000	0																						
	<b>7,420,000</b>	<b>7,420,000</b>	<b>0</b>																						
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 7,420,000																								

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2023	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>	2022	<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 upgrading the road to a five lane configuration.</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 three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 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

Forecast	Project Detailed 2022																								
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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2023	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>	2022	<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 upgrading the road to a five lane configuration.</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 three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 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-Original	Completion Date
2011	Jan 1, 2023	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>	2022	<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 upgrading the road to a five lane configuration.</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 three phases - Phase 1 will include Judge Avenue to Gertrude Street, Phase 2 will include Gertrude Street to Marshall Avenue and Phase 3 will include Marshall Avenue to Sunset Blvd. The watermain portion of Phase 3 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>

Scenario Description	Scenario Comments

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Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2011	Jan 1, 2023	75 Years	Adam Lacombe	Dec 31, 2028

<b>Number:</b>	4126PR	<b>Scenario:</b>	Main
<b>Title:</b>	All-Wheel Park	<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for the planning, design and construction of an All Wheel Park and Pump Track combined facility.	Council supported the construction of an All Wheel Park in collaboration with Community Partners supplying funds towards this project.  The design and installation of this recreation facility is scheduled to be completed in 2022 based on third party funding and Council approval.

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

<b>Forecast</b>	<b>Project Detailed 2022</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-Original</b>	<b>Completion Date</b>
2020	Jan 1, 2021	TBD	David Schroeder	Dec 31, 2022

<b>Number:</b>	4128RD	<b>Scenario:</b>	Main
<b>Title:</b>	Jane Street Sidewalk	<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project involves the engineering and construction services for reconstruction of the sidewalk on the east side of Jane Street from Bloem Street to Durriel Street.</p> <p>Engineering services will include preliminary evaluation and design, detailed design, agency approvals, contract drawings, specifications, and construction technical assistance.</p>	<p>Historic asphalt resurfacing of the roadway raised the road surface elevation such that there was minimal elevation difference between the road surface and the sidewalk surface. During road asphalt resurfacing in 2013, the existing concrete sidewalk was overlaid with asphalt to provide a rehabilitated walking surface. This project would install a new curb and replace the existing sidewalk with a new concrete sidewalk such that the new sidewalk would be 150 mm higher than the current road surface. The configuration would replicate the existing configuration and would not add any area for snow storage. There is currently no storm sewer on Jane St through the project area. The design will involve examination of storm sewer and drainage needs.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</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-Original	Completion Date
2020	Jan 1, 2021	50 Years	Adam Lacombe	Dec 31, 2023

<b>Number:</b>	4201PK	<b>Scenario:</b>	Main
<b>Title:</b>	Downtown Parking Facilities	<b>Project Stage:</b>	Council Approved
<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>	2022	<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.	<p>The downtown development potential is limited if steps are not taken to provide additional parking spaces. Project specifics on location and types of parking facilities have not been developed. Budget assumes 150 parking spaces in the new structure.</p> <p>This project is related to 3405PK as potential locations may be acquired for construction.</p> <p>Detailed needs would be supported by the Parking Strategy Study that would include Occupancy and Inventory levels.</p> <p>Related projects include 3405PK.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,950,000</b>																			

<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>	2022	<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>

<b>Forecast</b>	<b>Project Detailed 2022</b>																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides funds for the rehabilitation and replacement of the roofs of 11 buildings at the Wastewater Treatment Plant.	This project includes the repairs and replacements of the roofs at the Wastewater Treatment Plant. Work will be completed based on the condition of the buildings.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
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>	
<b>Division:</b>	Capital - Infrastructure & Operations	<b>Project Type:</b>	ROADS
<b>Budget Year:</b>	2022	<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.	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.

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

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2024	640,000	640,000	0
	<b>640,000</b>	<b>640,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 640,000		

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

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</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>	2022	<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>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The 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. Engineering services are being undertaken in-house and include an Environmental Assessment (EA), 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 should be implemented as expected growth demands.</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>The work will be constructed in one phase.</p> <p>Related projects include 4300RD/SS/ST/WS</p>

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

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Budget Year	Total Expense	Total Revenue	Difference																		
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2027	11,800,000	11,800,000	0																		
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<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 12,420,000																				

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
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>	2022	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
This project provides for a renovation to the customer service area to suit modern operational requirements. The project also includes for the renewal of the lobby flooring.		Over the years the requirements of the Customer Service Centre and the nature of how business is conducted has changed to the point where the current space is no longer suitable. This project will rebuild the space to meet the modern program requirements and to meet all accessible building standards.  Project also includes the replacement of the flooring in the entire lobby of City Hall.	

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

<b>Forecast</b>		<b>Project Detailed 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2025	350,000	350,000	0
2026	350,000	350,000	0
	<b>700,000</b>	<b>700,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 700,000		

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

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2020	Jan 31, 2025	TBD	David Jackowski	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>	2022	<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 St. 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 re-located prior to EPR implementation.

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

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Budget Year	Total Expense	Total Revenue	Difference														
2024	550,000	550,000	0														
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<b>Related Projects</b>	<b>Operating Impacts</b>

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



<b>Number:</b>	4211PR	<b>Scenario:</b>	Main
<b>Title:</b>	Museum Playground	<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This program provides for the installation of an accessible playground beside the Splash Pad.	This will be an accessible playground with rubber surfacing because wood chip surfacing would negatively impact the Splash Pad.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																	
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	20 Years	David Schroeder	Dec 31, 2022

<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>	2022	<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.	

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2030	300,000	300,000	0																		
2031	4,500,000	4,500,000	0																		
	<b>4,800,000</b>	<b>4,800,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 4,800,000</b>																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2030	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>	2022	<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.			

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

<b>Forecast</b>		<b>Project Detailed 2022</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>2030</td> <td>300,000</td> <td>300,000</td> <td>0</td> </tr> <tr> <td>2031</td> <td>1,000,000</td> <td>1,000,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>1,300,000</b></td> <td><b>1,300,000</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: 1,300,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2030	300,000	300,000	0	2031	1,000,000	1,000,000	0		<b>1,300,000</b>	<b>1,300,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,300,000</b>				
Budget Year	Total Expense	Total Revenue	Difference																				
2030	300,000	300,000	0																				
2031	1,000,000	1,000,000	0																				
	<b>1,300,000</b>	<b>1,300,000</b>	<b>0</b>																				
<b>LTD Amount: 0</b>		<b>Total Project Cost: 1,300,000</b>																					

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2030	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>	2022	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
Ellendale Reservoir is the City's largest water holding structure with a capacity just over 18,000 m3. This reservoir was constructed approx.. 50 years ago and has a concrete base, walls, roof and columns.		This project provides for extensive structural repairs to the City's largest Reservoir (Ellendale).	

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

<b>Forecast</b>		<b>Project Detailed 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2030	300,000	300,000	0
2031	4,500,000	4,500,000	0
	<b>4,800,000</b>	<b>4,800,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 4,800,000		

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

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2030	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>	2022	<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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2028	300,000	300,000	0
2031	3,000,000	3,000,000	0
	<b>3,300,000</b>	<b>3,300,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 3,300,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2022	Jan 1, 2028	25 Years	Adam Lacombe
			<b>Completion Date</b>
			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>	2022	<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 Project. 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 Resurfacing Project, 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 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2031	1,500,000	1,500,000	0
	<b>1,500,000</b>	<b>1,500,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 1,500,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2022	Jan 1, 2031	10 Years	Adam Lacombe
			<b>Completion Date</b>
			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>	2022	<b>Active:</b>	Yes

<b>Description</b>				<b>Comments</b>			
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 details of the project objectives and requirements will be established.				North Bay Transit currently operates 12m 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 purchase and install charging/refueling stations and facilitating infrastructure and replacing fossil-fuel vehicles with zero-emission vehicles.			
				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 co-ordinated and aligned with the yet to be formalized / determined Transit Fleet transition to zero-emission vehicles.			
				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 be detailed.			
<b>Scenario Description</b>				<b>Scenario Comments</b>			
<b>Forecast</b>				<b>Project Detailed 2022</b>			
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>				
2031	2,000,000	2,000,000	0				
	<b>2,000,000</b>	<b>2,000,000</b>	<b>0</b>				
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 2,000,000						
<b>Related Projects</b>				<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>		<b>Completion Date</b>		
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>	2022	<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 last phase of the Airport Industrial Park as well as servicing for 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>Related projects include 4300SS/ST/WS and 4208RD</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	590,000	590,000	0
2028	11,200,000	11,200,000	0
	<b>11,790,000</b>	<b>11,790,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 11,790,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2014	Jan 1, 2023	25 Years	Adam Lacombe
			<b>Completion Date</b>
			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>	2022	<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 last phase of the Airport Industrial Park as well as servicing for 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>Related projects include 4300RD/ST/WS and 4208RD</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	150,000	150,000	0
2028	2,900,000	2,900,000	0
	<b>3,050,000</b>	<b>3,050,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 3,050,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2014	Jan 1, 2023	75 Years	Adam Lacombe
			<b>Completion Date</b>
			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>	2022	<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 last phase of the Airport Industrial Park as well as servicing for 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>Related projects include 4300RD/SS/WS and 4208RD</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	50,000	50,000	0
2028	800,000	800,000	0
	<b>850,000</b>	<b>850,000</b>	<b>0</b>
<b>LTD Amount: 0</b>		<b>Total Project Cost: 850,000</b>	
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2021	Jan 1, 2023	75 Years	Adam Lacombe
			<b>Completion Date</b>
			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>	2022	<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 last phase of the Airport Industrial Park as well as servicing for 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>Related projects include 4300RD/SS/ST and 4208RD</p>	
<b>Scenario Description</b>		<b>Scenario Comments</b>	
<b>Forecast</b>		<b>Project Detailed 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	260,000	260,000	0
2028	4,800,000	4,800,000	0
	<b>5,060,000</b>	<b>5,060,000</b>	<b>0</b>
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 5,060,000		
<b>Related Projects</b>		<b>Operating Impacts</b>	
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>
2014	Jan 1, 2023	75 Years	Adam Lacombe
			<b>Completion Date</b>
			Dec 31, 2029

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The program involves the engineering and construction services for reconstruction of 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>The work will be constructed in one phase.</p> <p>Related projects include 4401SS/ST/WS.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</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>250,000</td> <td>250,000</td> <td>0</td> </tr> <tr> <td>2031</td> <td>3,500,000</td> <td>3,500,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>3,750,000</b></td> <td><b>3,750,000</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: 3,750,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2028	250,000	250,000	0	2031	3,500,000	3,500,000	0		<b>3,750,000</b>	<b>3,750,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,750,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2028	250,000	250,000	0																		
2031	3,500,000	3,500,000	0																		
	<b>3,750,000</b>	<b>3,750,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 3,750,000</b>																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2014	Jan 1, 2028	25 Years	Adam Lacombe	Dec 31, 2031

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The program involves the engineering and construction services for reconstruction of 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>The work will be constructed in one phase.</p> <p>Related projects include 4401RD/ST/WS.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</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>20,000</td> <td>20,000</td> <td>0</td> </tr> <tr> <td>2031</td> <td>900,000</td> <td>900,000</td> <td>0</td> </tr> <tr> <td></td> <td><b>920,000</b></td> <td><b>920,000</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: 920,000</b></td> </tr> </tbody> </table>	Budget Year	Total Expense	Total Revenue	Difference	2028	20,000	20,000	0	2031	900,000	900,000	0		<b>920,000</b>	<b>920,000</b>	<b>0</b>	<b>LTD Amount: 0</b>		<b>Total Project Cost: 920,000</b>		
Budget Year	Total Expense	Total Revenue	Difference																		
2028	20,000	20,000	0																		
2031	900,000	900,000	0																		
	<b>920,000</b>	<b>920,000</b>	<b>0</b>																		
<b>LTD Amount: 0</b>		<b>Total Project Cost: 920,000</b>																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The program involves the engineering and construction services for reconstruction of 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>The work will be constructed in one phase.</p> <p>Related projects include 4401RD/SS/WS.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</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-Original	Completion Date
2014	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The program involves the engineering and construction services for reconstruction of 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>The work will be constructed in one phase.</p> <p>Related projects include 4401RD/ST/SS.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</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-Original	Completion Date
2014	Jan 1, 2028	75 Years	Adam Lacombe	Dec 31, 2031

<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>	2022	<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 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 1970's 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 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 2022</b>																								
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Budget Year	Total Expense	Total Revenue	Difference																						
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2026	1,000,000	1,000,000	0																						
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<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 3,700,000																								

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2015	Jan 1, 2024	25 Years	Adam Lacombe	Dec 31, 2028



<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project includes the engineering and construction services for the installation of a new 400 mm 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 2022</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-Original	Completion Date
2016	Jan 1, 2026	25 Years	Adam Lacombe	Dec 31, 2029

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project includes the engineering and construction services for the installation of a new 400 mm 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 2022</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2026	110,000	110,000	0																		
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<b>LTD Amount:</b> 0		<b>Total Project Cost:</b> 2,210,000																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2021	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2029

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project includes the engineering and construction services for the installation of a new 400 mm 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>

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2016	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2029

<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The project includes the engineering and construction services for the installation of a new 400 mm 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>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,950,000</b>																			

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2016	Jan 1, 2026	75 Years	Adam Lacombe	Dec 31, 2029

<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>	2022	<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.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																									
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2019	Jan 1, 2021	N/A	Margaret Karpenko	

<b>Number:</b>	6610RD	<b>Scenario:</b>	Main
<b>Title:</b>	City Share of Development Costs 2022 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>	2022	<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 project includes 6610WS.</p>

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	Adam Lacombe	Dec 31, 2022

<b>Number:</b>	6610WS	<b>Scenario:</b>	Main
<b>Title:</b>	City Share of Development Costs 2022 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>	2022	<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 project includes 6610RD.</p>

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

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

<b>Number:</b>	6611RD	<b>Scenario:</b>	Main
<b>Title:</b>	Asphalt Resurfacing 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
<p>The program involves the 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) and the Ontario Community Infrastructure Fund.</p>

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	<b>36,200,000</b>	<b>36,200,000</b>	<b>0</b>																																																																													
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<b>Revenue</b>																																																																																
0461	TSF FRM REV FUND-PAYGO	172,396																																																																														
0539	ONT COMMUNITY INFR OCIF	557,581																																																																														
0608	CANADA COMMUNITY - BUILDING FUND (FEDERAL GAS TAX)	2,870,023																																																																														
<b>Total Revenue:</b>		<b>3,600,000</b>																																																																														

<b>Related Projects</b>	<b>Operating Impacts</b>			
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	10 Years	Reid Porter	Dec 31, 2022



<b>Number:</b>	6612RD	<b>Scenario:</b>	Main
<b>Title:</b>	Asphalt Sheeting 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The sheeting program is 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.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	10 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6613WS	<b>Scenario:</b>	Main
<b>Title:</b>	Watermain Rehab and Restoration 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for an on-going looping of dead end watermains and provides a permanent solution for adverse water conditions such as dirty water and low chlorine residual. It will reduce wasting water through continuous flushing. Work is completed by City staff and equipment.	The 2022 program will include restoration work to support water on-going projects.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																															
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2022	Jan 1, 2022	50 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6614RD	<b>Scenario:</b>	Main
<b>Title:</b>	Pedestrian Safety Program 2022 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>	2022	<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 2022 program will include Phase 2 of the installation of new sidewalks Pinewood Rd. to enhance public safety around the recently constructed Pinewood School.</p> <p>Related Project 6674ST.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	50 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6615RD	<b>Scenario:</b>	Main
<b>Title:</b>	Road Culvert Replace/Rehab 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project is on-going and 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 2022 program will replace rural road culverts.  Related project 6616RD.

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

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2022	Jan 1, 2022	25 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6616RD	<b>Scenario:</b>	Main
<b>Title:</b>	Rural Road Rehab 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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.	This project will be used for the rehabilitation of Northmount Rd., Regal Rd. and Hillside Dr.  Related project 6615RD.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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2022	Jan 1, 2022	25 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6617SL	<b>Scenario:</b>	Main
<b>Title:</b>	Traffic Control Signal Upgrade 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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 2022 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>

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Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	25 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6618RD	<b>Scenario:</b>	Main
<b>Title:</b>	Sidewalk Replacement Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project is on-going and provides for 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.	A list of sidewalks will be identified once the sidewalk survey is completed in the spring of 2022.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	25 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6619RD	<b>Scenario:</b>	Main
<b>Title:</b>	Bridge Rehab 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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.	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.  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.

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<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	Reid Porter	Dec 31, 2022



<b>Number:</b>	6620RD	<b>Scenario:</b>	Main
<b>Title:</b>	Downtown Roads Maintenance 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for an on-going program of downtown roads maintenance and upgrades.	The 2022 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>

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	25 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6621PK	<b>Scenario:</b>	Main
<b>Title:</b>	Parking Equipment Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for the purchase of parking equipment such as parking meters, Pay and Display machines and maintenance equipment to support parking operations.	In 2022, the program includes the program includes the upgrade of card readers to be compatible with modern payment cards.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	5 to 15 Years	David Jackowski	Dec 31, 2023

<b>Number:</b>	6622RF	<b>Scenario:</b>	Main
<b>Title:</b>	Pete Palangio Rehab Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for continued plant and property improvements for the Pete Palangio Arena (PP) as per Industry Accepted Practices and Processes as well as operational and programming requirements.	In 2022, the project will include the rejuvenation of the south building envelope and entrance renovations.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2023 to 2031: 2023 Board replacement // subfloor system renewal 2024 Base building renovations (office areas) // lift replacement 2025 Score clocks // sound systems 2026 Structural integrity report // accessibility improvements 2027 HVAC asset renewals 2028 Base building updates (conference room, lunch room) // change room renewal 2029 Base building renovations 2030 Condenser replacement 2031 Condition assessment \\ building and equipment upgrades

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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2022	Jan 1, 2022	TBD	David Jackowski	Dec 31, 2022

<b>Number:</b>	6623MR	<b>Scenario:</b>	Main
<b>Title:</b>	King's Landing and Marina Rehab Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for the rehabilitation of King's Landing and the Marina's buildings and appurtenances.	In 2022, the project will include the dredging of the North marina and general rehabilitation.  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 2023 to 2031: 2023 Gas dock sheet piling // general rehab 2024 Fuel tank replace // fuel dispenser replace 2025 General rehab 2026 Break wall dock 2027 Boat slip repairs 2028 Launch ramp repairs 2029 to 2031 General rehab

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																								
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Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	David Jackowski	Dec 31, 2022

<b>Number:</b>	6625RF	<b>Scenario:</b>	Main
<b>Title:</b>	Recreation Facilities Rehab and Development 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program 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 2022 this program includes infield, turf and fencing 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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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	David Schroeder	Dec 31, 2022

<b>Number:</b>	6626RF	<b>Scenario:</b>	Main
<b>Title:</b>	Omischl Sports Complex Rehab Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for the rehabilitation of the Omischl Sports Field Complex to maintain safe playing areas for the public per operational and programming needs.	In 2022 this program includes fencing, landscaping and turf rehabilitation.

<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-Original	Completion Date
2022	Jan 1, 2022	20 Years	David Schroeder	Dec 31, 2022

<b>Number:</b>	6627PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks and Playground Rehab Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This program 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 2022 this program includes playground replacement, park rehabilitation, tree planting, managing natural park land and other general rehabilitation.

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Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	David Schroeder	Dec 31, 2022

<b>Number:</b>	6628PR	<b>Scenario:</b>	Main
<b>Title:</b>	Waterfront Rehab Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This program provides for the rehabilitation to the Waterfront park land. The program includes rehab of turf, trees, beaches, trails, walkways, furnishings, lighting, the bench program and parking lots.	In 2022 this ongoing program included tree planting, sidewalk repairs, trail maintenance, beach erosion control and the bench program.

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

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2022	Jan 1, 2022	TBD	David Schroeder	Dec 31, 2022



<b>Number:</b>	6629PR	<b>Scenario:</b>	Main
<b>Title:</b>	Central City Rehab Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This program 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 flower.	In 2022 this ongoing program includes park rehabilitation, sidewalk repair and replacement.

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Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	David Schroeder	Dec 31, 2022

<b>Number:</b>	6630PR	<b>Scenario:</b>	Main
<b>Title:</b>	City Hall Grounds Rehab Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The program 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 2022 the program include concept development of Wyld/McIntyre plaza and rejuvenation of various grounds assets.	

<b>Scenario Description</b>		<b>Scenario Comments</b>	
		The following details support the Capital Forecast for 2023 to 2031: 2023 to 2031 Hard surface rehabilitation // landscaping // furnishing // general rehab	

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2022	Jan 1, 2022	TBD	David Jackowski	Dec 31, 2022

<b>Number:</b>	6631PR	<b>Scenario:</b>	Main
<b>Title:</b>	Trail and Supporting Hard Surfaces Rehab 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This program 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 2022 this ongoing program includes Kate Paceway resurfacing, park pathway installation and general rehabilitation.

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Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	David Schroeder	Dec 31, 2022

<b>Number:</b>	6632PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks Equipment Replacement Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This program 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.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	David Schroeder	Dec 31, 2022

<b>Number:</b>	6633RF	<b>Scenario:</b>	Main
<b>Title:</b>	Aquatic Centre Rehab Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for the rehabilitation and enhancements of North Bay's Aquatic Centre as per the Lifecycle Plan.	In 2022, the budget includes the replacement of the pool decking.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2023 to 2031: 2023 General changeroom rehabilitation and HVAC units 1,2,3 rehabs 2024 Replacement of the sand filters, actuators, pumps and general rehabilitation 2025 Boiler replacement, pool regROUT and general rehabilitation 2026 Heat exchanger, pump replacements and general rehabilitation 2027 HRV and general rehabilitation 2028 Lobby painting and general rehabilitation 2029 Actuator replacement and general rehab 2030 - 2031 General rehabilitation

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	10 to 30 Years	David Jackowski	Dec 31, 2022

<b>Number:</b>	6634PK	<b>Scenario:</b>	Main
<b>Title:</b>	Parking Lot Maintenance and Improvement Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project is to provide for the on-going improvements and maintenance of parking lots and facilities including lighting, asphalt replacement, drainage, etc.	The program includes on-going maintenance of all surface lots and the parking garage.  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.

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	Bruce Robertson	Dec 31, 2022

<b>Number:</b>	6635TR	<b>Scenario:</b>	Main
<b>Title:</b>	Transit Buildings Capital Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is for the required annual upgrades and repairs to Transit Terminal, Bus Shelters/Canopies, Bus Barn and Bus Wash Facilities.	In 2022, the project includes emergency repairs to the Transit Terminal, Bus Wash, Bus Barn and Bus Shelters/Canopies.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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2022	Jan 1, 2022	TBD	Drew Poeta	Dec 31, 2022

<b>Number:</b>	6636GG	<b>Scenario:</b>	Main
<b>Title:</b>	City Hall Building Rehab 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for on-going maintenance, repairs and improvements to City Hall; includes 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.	This project does not include any major reconfiguration.  In 2022, this project includes the replacement of the cooper roof, DHW supply system, plumbing riser and general rehabilitation.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2023 to 2031: 2023 HRV replacement // windows // general rehabilitation 2024 Boiler renewal // 2nd floor WRs // general rehabilitation 2025 Upgrade baseboard controls // heat exchanger penthouse // pod BAS // general rehabilitation 2026 Eco flush toilets // wayfinding // flooring // general rehabilitation 2027 Flooring rehabilitation // emergency lighting // general rehabilitation 2028 Window replacement // pump replacement // general rehabilitation 2029 BAS upgrade // windows // general rehab 2030 Chiller replacement // general rehab 2031 General rehab

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2022	Jan 1, 2022	TBD	David Jackowski	Dec 31, 2022



<b>Number:</b>	6637OC	<b>Scenario:</b>	Main
<b>Title:</b>	Capitol Centre 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for an on-going program of repairs and maintenance to the Capitol Centre.	The 2022 program includes fire and safety supply upgrades, rental space upgrades, internal marquees, building painting, front window casing replacement, signage, exterior canopies and gallery lighting upgrades.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2023 to 2031: 2023 to 2031 Structural, mechanical and electrical work

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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2022	Jan 1, 2022	N/A	Margaret Karpenko	Dec 31, 2022

<b>Number:</b>	6638PD	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Police Services 2022 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 - Service Partners	<b>Project Type:</b>	POLICE
<b>Budget Year:</b>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for an on-going program of vehicle replacement and other capital programs.	The 2022 program includes building repairs, body worn video/in vehicle video, vehicle replacements and upfitting, 911 and technology upgrades and 9mm pistol transition.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2023 to 2031: 2023 Vehicle replacements and upfitting, radio system replacement, building repairs and technology replacements 2024 Vehicle replacements and upfitting, radio system replacement and technology upgrades 2025 - 2028 Vehicle replacements and upfitting, CEW replacement program, radio system replacement, building repairs and technology upgrades 2029 -2030 Vehicle replacements and upfitting and technology upgrades 2031 Vehicle replacements and upfitting, building replacement and technology upgrades

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2022	Jan 1, 2022	TBD	Gerald Lalande	Dec 31, 2022

<b>Number:</b>	6639LB	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Public Library 2022 On-going	<b>Project Stage:</b>	Committee of Council Review
<b>Asset Type:</b>	Asset Improvement and Maintenance (General)	<b>Strategic Plans:</b>	Maintenance, Technology
<b>Division:</b>	Capital - Service Partners	<b>Project Type:</b>	LIBRARY
<b>Budget Year:</b>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project provides for an on-going program of repairs, maintenance and other capital needs at the North Bay Public Library.	The 2022 program includes the replacement of the website, replacement of analogue library exterior information panel with multimedia digital panel, the replacement and enhancement of infrastructure, general maintenance, software and hardware replacement.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2023 to 2031: 2023 and 2024 Installation of new elevator, staircase and renovation of audio-visual department, upgrades to code re: AODA, building and electrical, general maintenance and painting 2025 to 2031 Review, replacement and enhancement of infrastructure, general maintenance and software/hardware replacements

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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-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	TBD	Ravil Veli	Dec 31, 2022

<b>Number:</b>	6640SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sewage Lift Stations 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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 2022</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	10 to 15 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6644WS	<b>Scenario:</b>	Main
<b>Title:</b>	Water Plant Maintenance 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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 facility, as well as any emergency repairs/replacements required.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	10 to 20 Years	Karin Pratte	Dec 31, 2022

<b>Number:</b>	6645WS	<b>Scenario:</b>	Main
<b>Title:</b>	Watermain Replace/Ream/Reline 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 100 mm and 150 mm watermains are among the oldest pipes in the City's distribution system and have inadequate water supply for fire suppression and are often linked to dirty water because of excessive clogging. This on-going project provides for replacement of 100 mm watermains and replacement or re-lining of 150 mm watermains. This program is completed with City staff and equipment.	The 2022 program will include the continuing upgrades and maintenance to watermains in the City.

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2022	Jan 1, 2022	15 to 30 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6646RD	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2022 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>	2022	<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.  Related projects include 6646ST/SS/WS.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	N/A	Adam Lacombe	Dec 31, 2022

<b>Number:</b>	6646SS	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2022 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>	2022	<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.  Related projects include 6646RD/ST/WS.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

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



<b>Number:</b>	6646ST	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2022 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>	2022	<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.  Related projects include 6646RD/SS/WS.

<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-Original	Completion Date
2022	Jan 1, 2022	N/A	Adam Lacombe	Dec 31, 2022

<b>Number:</b>	6646WS	<b>Scenario:</b>	Main
<b>Title:</b>	Design Work Next Year's Projects 2022 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>	2022	<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.  Related projects include 6646RD/ST/SS.

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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-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	N/A	Adam Lacombe	Dec 31, 2022

<b>Number:</b>	6647RF	<b>Scenario:</b>	Main
<b>Title:</b>	Memorial Gardens Rehab 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for continued rehabilitation plant and property improvements for Memorial Gardens Arena per Industry Best Practices as well as operational and programming requirements.	In 2022, the program includes Plexiglas replacement, storage addition and ice plant quinquennial maintenance.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2023 to 2031: 2023 Condenser // chiller replacement 2024 Lighting // public washroom upgrades 2025 Main lobby floor refinishing 2026 BAS upgrades // plexiglas // general rehabilitation 2027 Compressors and motors 2028 HVAC unit renewals // general rehabilitation 2029 to 2031 General rehabilitation

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	20 Years	David Jackowski	Dec 31, 2022

<b>Number:</b>	6648FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Facilities Management Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program 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. Program will include overhead door replacement, main door, energy efficient upgrades (lighting) and replace windows.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The Capital Forecasts from 2023 to 2031 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 2022</b>																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	10 to 20 Years	Jason Whiteley	Dec 31, 2022

<b>Number:</b>	6649WS	<b>Scenario:</b>	Main
<b>Title:</b>	Flush Watermains 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The program 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 2022</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>
2022	200,000	200,000	0	<b>Expense</b>		
2023	200,000	200,000	0	3425	CONSTRUCTION CONTRACT	196,000
2024	200,000	200,000	0	7010	ADMINISTRATION & OVERHEAD	4,000
2025	200,000	200,000	0		<b>Total Expense:</b>	<b>200,000</b>
2026	200,000	200,000	0	<b>Revenue</b>		
2027	200,000	200,000	0	0461	TSF FRM REV FUND-PAYGO	200,000
2028	206,000	206,000	0		<b>Total Revenue:</b>	<b>200,000</b>
2029	210,000	210,000	0			
2030	210,000	210,000	0			
2031	210,000	210,000	0			
	<b>2,036,000</b>	<b>2,036,000</b>	<b>0</b>			
<b>LTD Amount:</b> 0	<b>Total Project Cost:</b> 2,036,000					

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

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	10 to 20 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6650RD	<b>Scenario:</b>	Main
<b>Title:</b>	Asset Management 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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 6650WS.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	Kevin Vescio	Dec 31, 2022

<b>Number:</b>	6650WS	<b>Scenario:</b>	Main
<b>Title:</b>	Asset Management 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
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<b>Related Projects</b>	<b>Operating Impacts</b>			
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2022	Jan 1, 2022	TBD	Kevin Vescio	Dec 31, 2022

<b>Number:</b>	6651ST	<b>Scenario:</b>	Main
<b>Title:</b>	Storm Sewer Flushing and Outfall Maintenance 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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 2022 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.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	25 Years	Domenic Schiavone	Dec 31, 2022



<b>Number:</b>	6652SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant Rehab 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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 Facility.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the capital forecast for 2023 to 2031: 2023 Brick veneer at admin building 2025 to 2031 Various repairs and upgrades

<b>Forecast</b>	<b>Project Detailed 2022</b>																																
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	50 Years	Karin Pratte	Dec 31, 2022

<b>Number:</b>	6654GG	<b>Scenario:</b>	Main
<b>Title:</b>	System Technology Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project is to provide 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 2022, the program includes the replacement of workstations for \$144,200, information systems including network, data storage and server infrastructure upgrades and replacements for \$130,000, telephony and remote communications for \$30,000, wireless and remote access for \$10,000, printers & peripherals for \$20,000, Sensitive data destruction for \$1,000, security upgrades and replacements of \$50,000, enhancements of SunGard/Questica/Financial Systems for \$10,000, software licensing for \$30,000, GIS priorities for \$10,000 and department priorities including mobile technology and computer hardware/peripherals/accessories for \$30,000

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																																																				
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2022	Jan 1, 2022	4 Years	Stephan Graveline	Dec 31, 2022

<b>Number:</b>	6654WS	<b>Scenario:</b>	Main
<b>Title:</b>	System Technology Program 2022 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>	Technology
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The annual on-going project is to provide funding for the information and communication technology for the Water and Wastewater department. This includes computer hardware and software, telephony hardware and software, network infrastructure and connectivity. In addition other special IS projects related specifically to water and wastewater activities are also funded from this project.	This project represents the technology requirements for the water-related activities. This includes the information and communication technology to support the Water Treatment Plant, Wastewater Treatment Plant and the water networks including the System Control and Data Acquisition (SCADA) for the entire system to meet local, provincial and federal regulations.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>			
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2022	Jan 1, 2022	4 Years	Stephan Graveline	Dec 31, 2022

<b>Number:</b>	6655AT	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Jack Garland Airport 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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 only the portion that is funded by the City. The 2022 Airport Plan includes rehabilitation to Aprons surfaces, administration building roof replacement, rehabilitation of runway approach lighting and AFC regulator transformer repairs.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the Capital Forecast for 2023 to 2031: 2023 Boilers and controls ATB replacement // vehicle replacement // administration building entrance and parking repairs 2024 Excavator and brush head replacements // Sander unit replacement // garage life safety system replacement 2025 Runway drainage replacement // runway resurfacing // Apron resurfacing 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 wind socks // replace vehicle and equipment // repair terminal roof 2030 Replace vehicles and equipment // replace air fan 2031 Replace runway sweeper // Replace paint machine // Garage expansion

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																								
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	25 Years	John Severino	Dec 31, 2022

<b>Number:</b>	6672FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Equipment Replacement 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides for the Fire Department's equipment replacements. This budget also provides for new or replacement equipment for new fleet purchases.	Replacement of aging equipment and analysis of needed equipment for enhanced and efficient service delivery. Equipment recommendations are researched by NBFES equipment committee. Equipment purchases will include equipment for new Tanker.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The Capital Forecasts from 2023 to 2031 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 to enhance our ability to deliver an effective response to emergency incidents.

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	5 to 25 Years	Greg Saunders	Dec 31, 2022

<b>Number:</b>	6673FD	<b>Scenario:</b>	Main
<b>Title:</b>	Fire Bunker Gear Replacement Program 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The program provides funds to replace firefighters' bunker gear (firefighting ensemble). In order to meet our requirements under the Occupational Health and Safety Act we are required to replace Bunker Gear every 10 years as stipulated in NFPA Standard 1851.	The program is based on the anticipated costs for required replacements.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2026	10 Years	Greg Saunders	Dec 31, 2026

<b>Number:</b>	6674ST	<b>Scenario:</b>	Main
<b>Title:</b>	Ditch Enclosure 2022 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>	2022	<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 2022 program will include elimination of ditches on Pinewood Rd. which will support the installation of sidewalks.  Related project 6614RD.

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

<b>Forecast</b>	<b>Project Detailed 2022</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-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	25-50 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6676SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant - Electrical Upgrades 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>		<b>Comments</b>	
The project will provide electrical upgrades to the Wastewater Treatment Plant. 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.		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.	

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

<b>Forecast</b>				<b>Project Detailed 2022</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>
2022	200,000	200,000	0	<b>Expense</b>		
2023	250,000	250,000	0	3425	CONSTRUCTION CONTRACT	196,000
2024	250,000	250,000	0	7010	ADMINISTRATION & OVERHEAD	4,000
2025	250,000	250,000	0		<b>Total Expense:</b>	<b>200,000</b>
2026	250,000	250,000	0	<b>Revenue</b>		
2027	250,000	250,000	0	0461	TSF FRM REV FUND-PAYGO	200,000
2028	258,000	258,000	0		<b>Total Revenue:</b>	<b>200,000</b>
2029	260,000	260,000	0			
2030	260,000	260,000	0			
2031	260,000	260,000	0			
	<b>2,488,000</b>	<b>2,488,000</b>	<b>0</b>			
<b>LTD Amount: 0</b>		<b>Total Project Cost: 2,488,000</b>				

<b>Related Projects</b>			<b>Operating Impacts</b>		
<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>		<b>Completion Date</b>
2022	Jan 1, 2022	15 Years	Karin Pratte		Dec 31, 2022



<b>Number:</b>	6678SS	<b>Scenario:</b>	Main
<b>Title:</b>	Wastewater Treatment Plant Exterior Rehab 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
Replace fencing, roofs, brick veneer and to perform landscaping upgrades along the Kate Pace Way and the Wastewater Treatment Plant.	This program will rehabilitate and repair the 11 buildings at the Wastewater Treatment Facility.  The 2022 program will provide for the general building rehabilitation related to the windows, doors and brick veneers.

<b>Scenario Description</b>	<b>Scenario Comments</b>
	The following details support the capital forecast for 2023 to 2031: 2023 Brick veneer blower / RAS building 2025 to 2031 General building rehabilitation

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																												
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<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	TBD	Karin Pratte	Dec 31, 2022

<b>Number:</b>	6679RD	<b>Scenario:</b>	Main
<b>Title:</b>	Public Works Building Maintenance 2022 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>	2022	<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 2022, the project will address general repairs required to the public works facilities. Related project includes 6679WS.

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																																																																												
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6679WS	<b>Scenario:</b>	Main
<b>Title:</b>	Public Works Building Maintenance 2022 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>	2022	<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 2022, the project will address general repairs required to the public works facilities. Related project includes 6679RD.

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2022	Jan 1, 2022	TBD	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6680RD	<b>Scenario:</b>	Main
<b>Title:</b>	Equipment Replacement 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project will be used to purchase tools and equipment required for the roads department.	The funds will be used to replace items such as arboards, concrete saws, chain saws, etc.  These purchases will not form part of the fleet and equipment replacement program.  Related project includes 6680WS.

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2022	Jan 1, 2022	TBD	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6680WS	<b>Scenario:</b>	Main
<b>Title:</b>	Equipment Replacement 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project will be used to purchase tools and equipment required for the water and wastewater department.	The 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 project includes 6680RD.

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2022	Jan 1, 2022	TBD	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6681SS	<b>Scenario:</b>	Main
<b>Title:</b>	Sewer Rehab and Restoration 2022 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>	2022	<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>	The 2022 program will include restoration work to support wastewater on-going projects.

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

<b>Forecast</b>	<b>Project Detailed 2022</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-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	50 Years	Domenic Schiavone	Dec 31, 2022

<b>Number:</b>	6682CA	<b>Scenario:</b>	Main
<b>Title:</b>	North Bay Mattawa Conservation Authority 2022 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>	2022	<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 2022		
Budget Year	Total Expense	Total Revenue	Difference	GL Account	Description	Total Amount
2022	996,075	996,075	0			
2023	980,477	980,477	0	6067	CONSERVATION AUTHORITY	976,544
2024	992,549	992,549	0	7010	ADMINISTRATION & OVERHEAD	19,531
2025	1,000,168	1,000,168	0			<b>Total Expense: 996,075</b>
2026	1,012,831	1,012,831	0			
2027	1,025,977	1,025,977	0	0461	TSF FRM REV FUND-PAYGO	996,075
2028	1,033,766	1,033,766	0			<b>Total Revenue: 996,075</b>
2029	1,040,941	1,040,941	0			
2030	1,048,722	1,048,722	0			
2031	1,059,505	1,059,505	0			
	<b>10,191,011</b>	<b>10,191,011</b>	<b>0</b>			
<b>LTD Amount: 0</b>		<b>Total Project Cost: 10,191,011</b>				

Related Projects	Operating Impacts

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	N/A	Margaret Karpenko	Dec 31, 2022

<b>Number:</b>	6683SS	<b>Scenario:</b>	Main
<b>Title:</b>	Infrastructure Modelling 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The project involves 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>Related project includes 6683ST/WS.</p>

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

<b>Forecast</b>	<b>Project Detailed 2022</b>																				
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Budget Year	Total Expense	Total Revenue	Difference																		
2025	10,000	10,000	0																		
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<b>Related Projects</b>	<b>Operating Impacts</b>

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



<b>Number:</b>	6683ST	<b>Scenario:</b>	Main
<b>Title:</b>	Infrastructure Modelling 2022 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>	2022	<b>Active:</b>	Yes

Description	Comments
The project involves 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>Related project includes 6683SS/WS.</p>

Scenario Description	Scenario Comments

Forecast	Project Detailed 2022																				
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2029	10,000	10,000	0																		
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<b>LTD Amount: 0</b>		<b>Total Project Cost: 20,000</b>																			

Related Projects	Operating Impacts

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

<b>Number:</b>	6683WS	<b>Scenario:</b>	Main
<b>Title:</b>	Infrastructure Modelling 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>			<b>Comments</b>			
<p>The project involves 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>Related projects include 6683ST/SS.</p>			
<b>Scenario Description</b>			<b>Scenario Comments</b>			
<b>Forecast</b>			<b>Project Detailed 2022</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>
2022	5,000	5,000	0	<b>Expense</b>		
2023	5,000	5,000	0	3117	DESIGN FEES	4,900
2024	5,000	5,000	0	7010	ADMINISTRATION & OVERHEAD	100
2025	5,000	5,000	0		<b>Total Expense:</b>	<b>5,000</b>
2026	5,000	5,000	0			
2027	5,000	5,000	0	<b>Revenue</b>		
2028	5,000	5,000	0	0461	TSF FRM REV FUND-PAYGO	5,000
2029	5,000	5,000	0		<b>Total Revenue:</b>	<b>5,000</b>
2030	5,000	5,000	0			
2031	5,000	5,000	0			
	<b>50,000</b>	<b>50,000</b>	<b>0</b>			
<b>LTD Amount: 0</b>		<b>Total Project Cost: 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-Original</b>		<b>Completion Date</b>	
2022	Jan 1, 2022	N/A	Adam Lacombe		Dec 31, 2022	

<b>Number:</b>	6684SL	<b>Scenario:</b>	Main
<b>Title:</b>	Street Light Replacement 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project provides 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 2022</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-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	10 Years	Karin Pratte	Dec 31, 2022

<b>Number:</b>	6685SS	<b>Scenario:</b>	Main
<b>Title:</b>	Digester and Grit Removal 2022 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>	2022	<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.		With the construction of the grit removal facility at the head end of the plant, it is anticipated that digester cleaning requirement for the four digesters will be reduced in future years. The budget reflects these changes.	

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

<b>Forecast</b>		<b>Project Detailed 2022</b>	
<b>Budget Year</b>	<b>Total Expense</b>	<b>Total Revenue</b>	<b>Difference</b>
2023	109,000	109,000	0
2026	109,000	109,000	0
2029	109,000	109,000	0
2031	150,000	150,000	0
	<b>477,000</b>	<b>477,000</b>	<b>0</b>
<b>LTD Amount: 0</b>		<b>Total Project Cost: 477,000</b>	

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

<b>Year Identified</b>	<b>Start Date</b>	<b>Useful Life</b>	<b>Manager-Original</b>	<b>Completion Date</b>
2022	Jan 1, 2022	N/A	Karin Pratte	Dec 31, 2022

<b>Number:</b>	6686RD	<b>Scenario:</b>	Main
<b>Title:</b>	Engineering Data and Equipment 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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) in order to focus in on the most critical areas. A reduction in infiltration/inflow will reduce the demands on the Wastewater Treatment Plant.</p> <p>Related projects include 4202SS and 6686SS.</p>

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	Adam Lacombe	Dec 31, 2022

<b>Number:</b>	6686SS	<b>Scenario:</b>	Main
<b>Title:</b>	Engineering Data and Equipment 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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) in order to focus in on the most critical areas. A reduction in infiltration/inflow will reduce the demands on the Wastewater Treatment Plant.</p> <p>Related projects include 4202SS and 6686RD.</p>

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

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	Adam Lacombe	Dec 31, 2022

<b>Number:</b>	6688RD	<b>Scenario:</b>	Main
<b>Title:</b>	Interlocking Brick Sidewalk & Retaining Wall Replacement 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This project is 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 this brick and retaining wall is experience pre-mature failure as a result 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.

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<b>Forecast</b>	<b>Project Detailed 2022</b>																																																				
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<b>Related Projects</b>	<b>Operating Impacts</b>

Year Identified	Start Date	Useful Life	Manager-Original	Completion Date
2022	Jan 1, 2022	TBD	Domenic Schiavone	Dec 31, 2022



<b>Number:</b>	6689WS	<b>Scenario:</b>	Main
<b>Title:</b>	Water Reservoir Upgrades 2022 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>	
<b>Division:</b>	Capital - Water	<b>Project Type:</b>	WATER
<b>Budget Year:</b>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
The 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.  Projects will include upgrades to piping, valves, chemical closing, instrumentation and controls.

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2022	Jan 1, 2022	TBD	Karin Pratte	Dec 31, 2022

<b>Number:</b>	6690PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks Master Plan 2022 On-going	<b>Project Stage:</b>	Council Approved
<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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This program provides for the implementation of projects identified in the approved 2021 Parks Master Plan.	The program will fund projects identified in the Parks Master Plan 2021 and the City's Official Plan.

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

<b>Forecast</b>	<b>Project Detailed 2022</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, 2023	TBD	Dave Schroeder	Dec 31, 2023

<b>Number:</b>	6691PR	<b>Scenario:</b>	Main
<b>Title:</b>	Parks Building Rehab 2022 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>	2022	<b>Active:</b>	Yes

<b>Description</b>	<b>Comments</b>
This program provides for the rehabilitation of the Parks buildings and Facilities. It includes consideration for accessibility and energy efficiencies.	In 2022 the ongoing program includes repairs to the Circle Lake building roof, the Caldwell Ellam floor replacement and general building rehabilitation.  In future years Parks building projects will be determined using the approved 2021 Parks Master Plan and the City's Official Plan.

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