



2022 CAPITAL BUDGET, 2023-2026 FORECAST

and Asset Management Status

The City of St. Catharines

Version 2

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2022 Capital Budget and 2023-2026 Forecast

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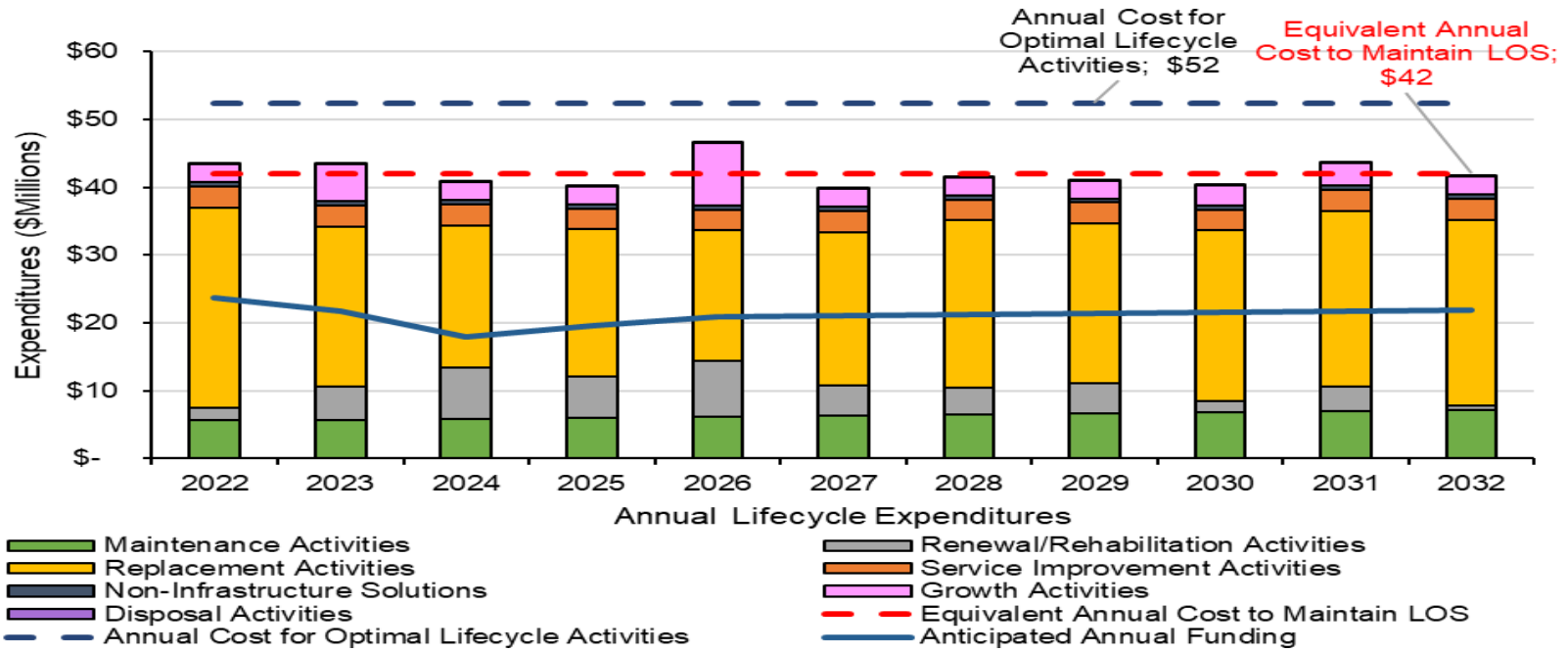
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2022 Asset Management Status

The City is committed to building and growing a diverse and resilient economy through fiscal responsibility, urban regeneration and collaborative partnerships. The 2022 Capital Budget aims to build support strong, inclusive neighbourhoods that provide high quality of life for residents of all ages. Guided by our strategic goals, the 2022 Capital Budget aims to support the provision of quality municipal services that enhance our social fabric, environmental sustainability, cultural vitality; and contribute to the economic prosperity in our community.

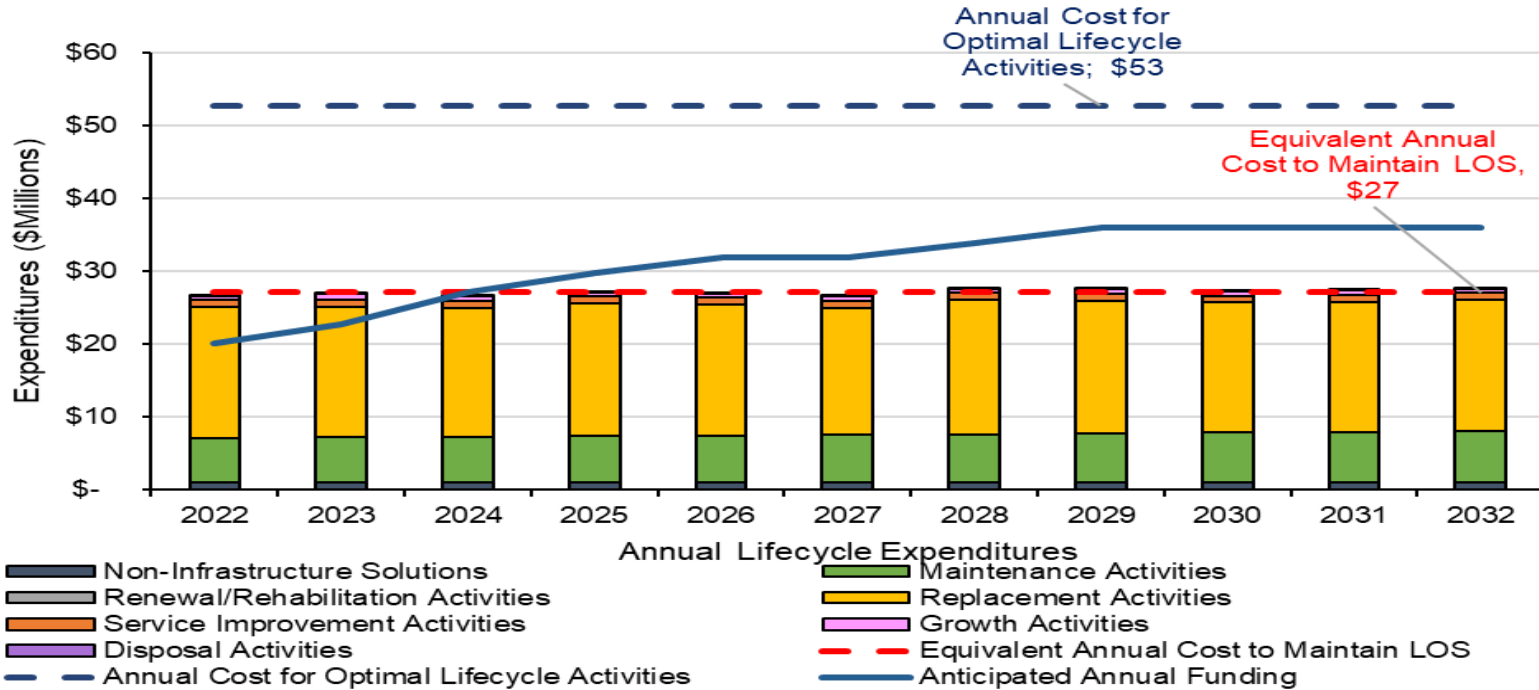
In October 2021 Council endorsed the Asset Management Plan (AMP) for Core assets with an estimated replacement value of over \$5 billion that meets the requirements set out under Ontario Regulation 588/17. The AMP identifies funding levels for our core services (transportation stormwater management water and wastewater) required to maintain sustainable infrastructure and related services. Based on the known information on age and condition, the City will need to increase funding for asset rehabilitation and replacement of its existing assets, to maintain the existing levels of service to the public. The sustainable funding targets will continue to be refined as data and information on the assets is improved. Figures 1 and 2 below provide the forecast lifecycle requirements for the City’s core services split between tax supported operations and rate supported operations.

Figure 1 - Forecasted Asset Portfolio for Tax Based Expenditures



As shown in Figure 1, the anticipated tax supported annual funding for the City’s related core infrastructure which includes transportation, storm water management systems and related facilities, is insufficient to meet the projected needs. As the assets continue to age, increasing the funding towards their replacement will be critical to maintaining existing levels of service or alternatively targeted levels of service will need to be reduced.

Figure 2 - Forecasted Asset Portfolio for Rate Based, Core Infrastructure Expenditures

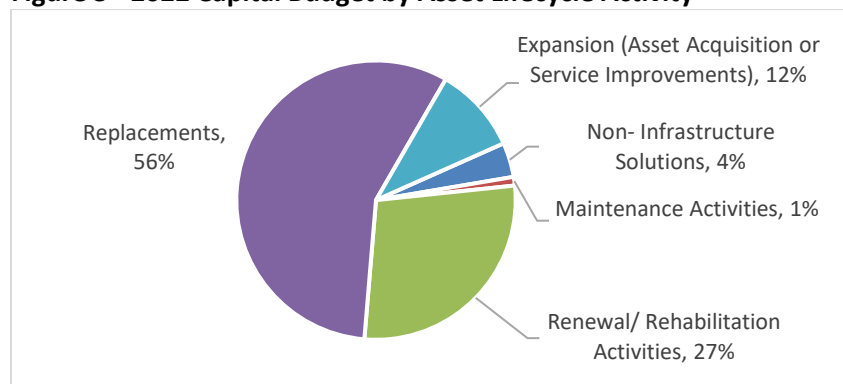


The City’s water and wastewater infrastructure accounts for 58% of the City’s core infrastructure. In 2019 Council approved the 10-year Financial Plan for Water and Wastewater, which included significant increases in the investment in related infrastructure over a ten-year period to assist in closing the funding gap for the Water/Wastewater assets. Even after including the planned deferrals resulting from COVID-19 related financial pressures the anticipated rate-based investments currently planned are sufficient to maintain the current condition and forecast a slight improvement to service. However, the investment is still below the optimal renewals identified.

As shown in Figure 3, the 2022 budget of \$54.92 million is split between major asset lifecycle activities, which are consistent with the activities within the AMP:

- Renewal/Rehabilitation includes the significant repairs to extend the life of the asset, and can defer the need for asset replacement
- Non infrastructure activities are made to improve programs and services or monitor condition of assets to maintain them in a state of good repair and support service delivery
- Replacement activities which are activities that are expected to occur once an asset has reached its end of its useful life and renewal/rehabilitation is no longer an option
- Expansion activities support increasing demands due to population growth and the expansion of existing services to improve the quality of life for our residents
- Disposal activities are associated with disposing of an asset once it has reached the end of its useful life or is no longer needed
- Maintenance activities include regularly scheduled inspection and maintenance and more significant repairs and activities associated with unexpected events

Figure 3 - 2022 Capital Budget by Asset Lifecycle Activity



A risk management framework was developed for each of the asset categories in the AMP to assist with the prioritization of work within the forecasts. Moving forward risk will be considered in prioritizing capital expenditures. The consequence of asset failure (based on financial, social and environment impacts) and the likelihood of that event occurring provide the risk score.

Other considerations related to asset renewal are listed below;

- Alignment with core business and the strategic plan
- Renewal of aging infrastructure
- Health and safety
- Compliance with policy standards and legislative requirements
- Sustainability (economic, environment, and social)
- Accommodating population growth
- Providing service improvements

Also, asset renewal and replacement within the road allowance (roads, sidewalks, sewers and watermains) is often co-ordinated to take advantage of economies of scale and to reduce the impact of construction. This co-ordination may impact the timing of asset renewal for some asset categories. Determination of the final construction program is the result of iterative effort by staff in reviewing all the asset categories.

In prior years, Council was provided with data as shown in Figure 4 that highlighted the cumulative infrastructure deficit and reinvestment rates. In the current table, the backlog of work included in the AMP for core assets has been used. The information provided for the assets that will be included in the upcoming AMP for non-core assets may change significantly as a result of this work. Also, it is expected that the AMP for non-core assets will include assets not currently listed in this table including fleet, corporate infrastructure, and green infrastructure.

Figure 4 Asset Management Information by Service Area (in \$millions)

Service Area	Inventory Details	Capital Budget Sch.	Asset Replacement Value	Backlog (1)	Forecast Equiv. Annual Cost (2)	Avg Anticip. Funding 2022-32 (3)	2022 Capital Budget Amounts
Water	Water Distribution	G,R	\$ 1,367	\$ 249	\$ 16.2	\$ 21.1	\$ 8.3
	594 km						
Wastewater/Pollution Control	Wastewater Collection	E,F,R	1,556	146	10.9	9.9	2.9
	Storage Facilities						
	569 km						
	9 ea						
Transportation	Road Network	B,C,R	1,156	90	35.3	15.8	13.11
	Active Transp. Incl . Sidewalks						
	574 km						
	578 km						
Structures	Bridges & Culverts (>=3m)	H	66	3	1.8	1.1	2.1
	Bridges & Culverts (<3m)						
	71 ea						
	46 ea						
Stormwater	Stormwater Collection	D, R	877	47	5.0	4.3	2.14
	Treatment & Control (OGS)						
	404 km						
	31 ea						
Facilities (incl. parking) (4)	Buildings and Facilities	M	602	56	Will be available upon completion of upcoming AMP for Non Core Assets		11.78
Parks and Recreation (4)	Pathways within Parks	L	70				4.08
	Amenities						
	65 km						
	192 ea						
Shoreline Protection (4)	Protected	I	70	8.6			0.29
	Unprotected						
	3.625 km						
	1.275 km						
TOTAL			<u>\$ 5,764</u>	<u>\$ 599</u>			<u>\$ 44.70</u>

(1) Backlog is work that should have been completed before 2022 given unlimited funds based on known condition or age
(2) Forecast Equivalent Annual Cost (capital & operating)-provided in the City's 2021 Asset Management Plan-Core Assets
(3) Average Anticipated Funding (capital and operating) based on the 2021 Capital Budget and provided in the 2021 AMP for Core Assets
(4) Information may change significantly upon completion of the City's AMP for non core assets which will be completed in compliance with O. Reg. 588/27

In 2022, as well as working on the AMP for its non-core assets, the City will continue to update its asset management practices and work towards implementing the recommendations included within the 2021 AMP.

Climate Change Considerations

St. Catharines strategic plan identifies climate change as an important issue that will affect St. Catharines. In 2019, Council unanimously declared a Climate Emergency demonstrating the need to prepare and adapt to a changing future.

In May 2021, Council approved a Climate Adaptation Plan which prioritized high risk impacts and produced necessary actions to reduce the projected negative effects of climate change. The data indicates that St. Catharines will experience overall increased temperature, increased precipitation in all seasons except for summer and an increase in extreme events.

Considering demands of a changing climate provides an opportunity for the City to replace aging infrastructure and install new infrastructure with climate resilience in mind.

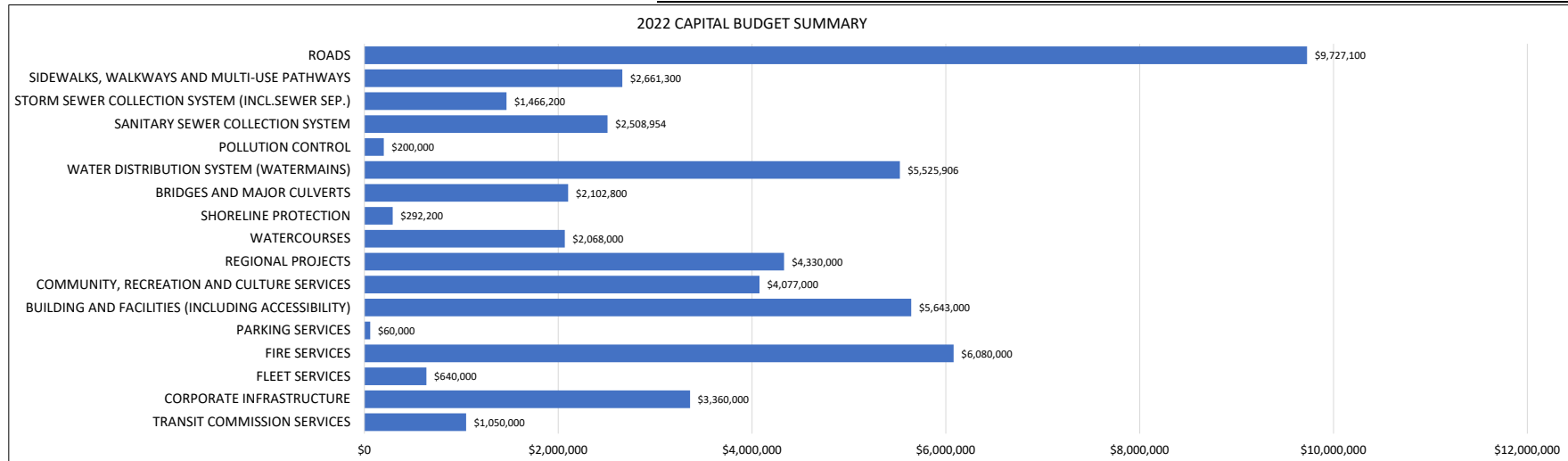
Examples of projects that will help meet the City's climate objectives include:

- Active Transportation – the City continues to prioritize active transportation over increased vehicular traffic which shows a commitment to achieving its climate targets and protecting the health and well-being of residents
- Tree planting / Urban Forest
 - Urban Canopy Target of 30% by 2030
- Shoreline protection
- Watercourse erosion and bank stabilization
- Construction of new storm sewers for combined sewer separation to improve capacity
- City facilities
 - Corporate buildings to reach Net zero by 2050

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**CITY OF ST. CATHARINES
2022 CAPITAL BUDGET SUMMARY (SCHEDULE A)**

DESCRIPTION	SCHEDULE	GROSS COST	CANADA COMMUNITY			TAX/RATE PAYER	DEBT
			BUILDING FUND	OTHER EXTERNAL/ RESERVES			
ROADS	SCHEDULE B	9,727,100	3,795,765	78,000	1,592,000	4,261,335	
SIDEWALKS, WALKWAYS AND MULTI-USE PATHWAYS	SCHEDULE C	2,661,300	1,169,300	1,057,800	434,200	-	
STORM SEWER COLLECTION SYSTEM (INCL.SEWER SEP.)	SCHEDULE D	1,466,200	776,800	76,800	174,700	437,900	
SANITARY SEWER COLLECTION SYSTEM	SCHEDULE E	2,508,954	1,000,000	-	1,508,954	-	
POLLUTION CONTROL	SCHEDULE F	200,000	-	-	200,000	-	
WATER DISTRIBUTION SYSTEM (WATERMAINS)	SCHEDULE G	5,525,906	1,352,000	-	3,323,608	850,298	
BRIDGES AND MAJOR CULVERTS	SCHEDULE H	2,102,800	949,557	-	122,400	1,030,843	
SHORELINE PROTECTION	SCHEDULE I	292,200	-	-	58,500	233,700	
WATERCOURSES	SCHEDULE J	2,068,000	-	-	104,000	1,964,000	
REGIONAL PROJECTS	SCHEDULE K	4,330,000	-	37,300	2,224,900	2,067,800	
COMMUNITY, RECREATION AND CULTURE SERVICES	SCHEDULE L	4,077,000	-	1,286,000	947,000	1,844,000	
BUILDING AND FACILITIES (INCLUDING ACCESSIBILITY)	SCHEDULE M	5,643,000	-	755,000	597,600	4,290,400	
PARKING SERVICES	SCHEDULE N	60,000	-	60,000	-	-	
FIRE SERVICES	SCHEDULE O	6,080,000	-	4,303,000	26,000	1,751,000	
FLEET SERVICES	SCHEDULE P	640,000	-	-	32,000	608,000	
CORPORATE INFRASTRUCTURE	SCHEDULE Q	3,360,000	-	-	207,000	3,153,000	
TRANSIT COMMISSION SERVICES	SCHEDULE R	1,050,000	-	-	105,000	945,000	
		\$ 51,792,460	\$ 9,043,422	\$ 7,653,900	\$ 11,657,862	\$ 23,437,276	
LESS: CAPITAL BUDGETS COUNCIL PREAPPROVED IN 2021 OR PRIOR YRS		1,830,000	-	105,000	87,000	1,638,000	
CAPITAL BUDGET REQUIRING COUNCIL APPROVAL		\$ 49,962,460	\$ 9,043,422	\$ 7,548,900	\$ 11,570,862	\$ 21,799,276	



Transportation (Roads, Sidewalks, Walkways and Multi-use Pathways) (Schedules B and C)

The City is committed to providing transportation services that strive to provide a safe, efficient, accessible, and sustainable transportation system for all required uses and modes of transportation in accordance with regulatory requirements and community expectations.

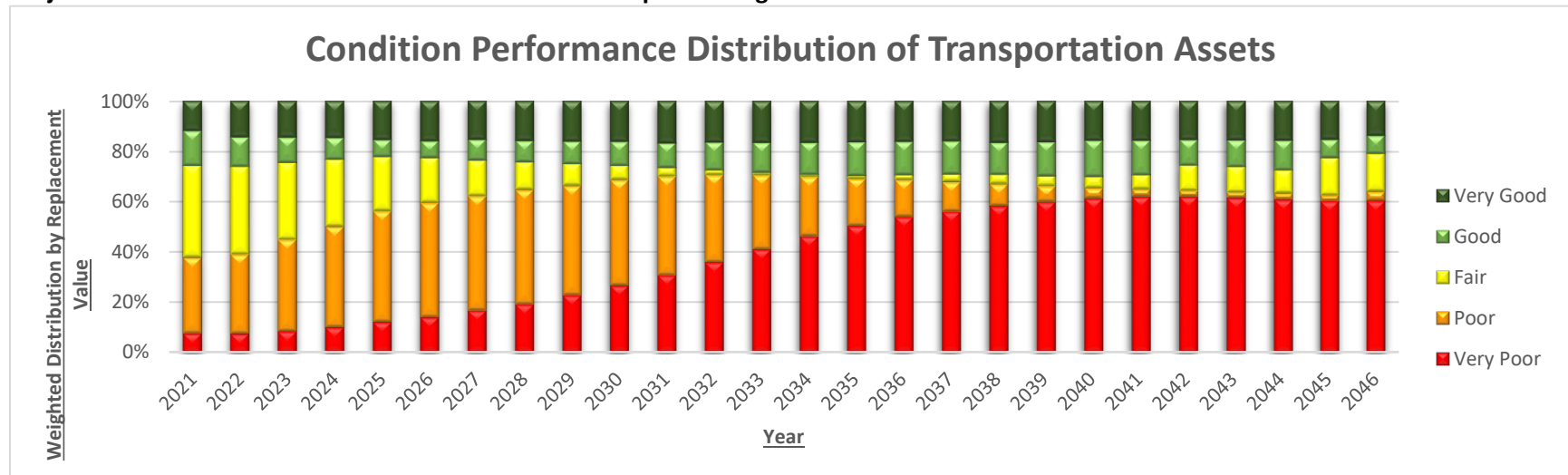
Provided by:

- 574 km of city owned roads or 1168 lane-km
- 62 km of roads with dedicated bike lanes
- 8 km of roads with Signed Cycling Route with Sharrows
- 2 km of roads with Signed Cycling Route without Sharrows
- 578 km of sidewalks and walkways
- 109 km of off-road trails
- 54 Signalized Intersections
- Over 13,000 Streetlights and over 22,000 traffic signs

Value and Condition (As provided in the 2021 Corporate AMP for Core Assets)

Total replacement value: \$1,154 million
 Current backlog of work: \$90 million
 Current average condition: Fair

Projected Condition Distribution Performance with Anticipated Budget



The overall average condition of transportation assets has been deteriorating, indicating the City is not keeping pace in investing in the rehabilitation of its assets. The average Pavement Quality Index (PQI) of City's road network is 47 in 2020 compared to 54 in 2018.

Current Strategy

Renewal and Replacement: The City utilizes a pavement management system to guide the road improvement program. The system places the highest priorities for road works on a predicted future road condition using historical experience and the risks of delaying treatments. Generally, this means priority is given to roads with higher traffic volumes and will generally recommend resurfacing rather than more costly reconstruction.

Where appropriate, both the roadway expansion and renewal are co-ordinated with the replacement of other subsurface infrastructure, such as watermains or sanitary and storm sewers. Roads are typically rehabilitated or resurfaced, rather than reconstructed when there is no other subsurface infrastructure that requires replacement. Other considerations, such as the timing of proposed developments, are also incorporated into the decision to replace or rehabilitate a road. The approach for sidewalks and trails is to replace the infrastructure when they are in poor or very poor condition.

Expansion of Services: Expansion of the transportation network may be undertaken to support growth and development or to meet user demands. There continues to be increased demand for assets that support active transportation (AT). This is consistent with a recommendation from the City's recently endorsed Transportation Master Plan which recommends additional AT funding of \$18 million over the next 20 years and supports the City's strategic goal to build and support strong, inclusive neighbourhoods that provide high quality of life for residents of all ages. When assets are

renewed, opportunities for the expansion of the AT network are reviewed with the goal to improve accessibility for all users.

Non-Infrastructure Solutions: Environmental assessments, geotechnical investigation and design for future road works are undertaken a few years in advance of proposed larger construction projects. Transportation projects can take several months to years and include public consultation and the preparation of finalized designs.

2022 Highlights

- 17% of the 2022 transportation program directly funds improvements to active transportation network
- Resurfacing of approximately 5.8km of roadway and reconstruction of an additional 710m of roadway
- Design and Public Consultation for future works on Parnell Road, James Street and Bunting Road

2022 CAPITAL BUDGET
ROADS (SCHEDULE B)

Project No.	Project Type	Project Name / Location	From	To	Gross Cost	Details	Notes
Previously Budgeted Projects - Additional Budget Requirements							
P18-062	RP	Lake St. Road and Underground Improvements	Ontario St.	Welland Ave.	\$ 972,700	Road reconstruction and rehabilitation	CP, 4a
P19-066	E	Moffatt St. Secondary Access	Marshall Lane	Abbot St.	\$ 1,000,000	Engineering services for detailed design phase to implement environmental assessment preferred alternative	1a
P21-097	RP	Dunvegan Rd. Traffic Signal Replacement	Approx. 90m east of Hartzel Rd.		151,700	Roadway reconfiguration in conjunction with previously approved traffic signal replacement	1a & 4a
Subtotal					\$ 2,124,400		
New Projects							
P22-061	NI	James St. EA	King St.	Church St.	290,200	EA for reconstruction of James St. and construction of a public multi-use space	CP, 2a
P22-062	RP	Pinecrest Ave. Reconstruction	Glendale Ave.	Bessey St.	304,300	Reconstruction of existing roadway	CP, 1a
P22-063	NI	Parnell Rd. Reconstruction	Niagara St.	Vine St.	237,600	Design for future road reconstruction	CP, 3b
P22-064	RN	Blue Spruce / Huntingwood Blue Spruce Court Huntingwood Gate	Crescentwood Dr. Crescentwood Dr.	Cul-de-sac End	338,700	Replace asphalt road surface in conjunction with watermain replacement	CP, 1a
P22-065	RN	Vansickle Rd. Resurfacing and Intersection Improvements	Pelham Rd.	Mac Turnbull Dr.	2,155,700	Full depth resurfacing with intersection improvements to promote traffic calming	3b
P22-066	NI	Bunting Rd. Visioning	Scott St.	Eastchester Ave.	126,400	Visioning and EA to implement complete street design	4a & 4b
P22-070	NI	Preliminary Design for Future Road Rehabilitation Merritt St.	Townline Rd. E	Glendale Ave.	35,400	Geotechnical investigation and preliminary design for future roadworks	4a

Project Type: RP = Replacement, RN = Renewal, E = Expansion,
NI = Non-Infrastructure Solutions, M = Maintenance, D = Disposal

2022 CAPITAL BUDGET
ROADS (SCHEDULE B)

Project No.	Project Type	Project Name / Location	From	To	Gross Cost	Details	Notes
P22-080	RN	2022 Road Resurfacing Program			\$ 3,573,300		1a
		Brittany Court	Vintage Cres.	End		Spot curb repairs and replace asphalt road surface	
		Carousel Circle	Lafayette Dr.	End			
		Chopin Rd.	Sikorski Ave.	Highfield Ave.			
		Chopin Rd.	Highfield Ave.	Myrtle Ave.			
		Gordon Place	Rosemount Ave.	Strathcona Dr.			
		Highfield Ave.	Grantham Ave.	Chopin Rd.			
		Highfield Ave.	Chopin Rd.	End			
		Myrtle Ave.	Grantham Ave.	End			
		Oakridge Ave.	Belton Blvd.	Glenridge Ave.			
		Vanier Court	Lafayette Dr.	End			
		Keswick St.	Hartzel Rd.	End			
		Windward St.	Promenade Blvd.	Bermuda Dr.			
		Promenade Blvd.	Carlton St.	Leaside Dr.			
		Oakridge Ave.	Riverview Blvd.	Belton Blvd.		Mill and resurface existing semi-urban roadway	
		Henley Island Dr.	Main St. (RR87)	East Limit at bridge		Overlay existing asphalt roadway and reinstate traffic calming cushions	
		Almond Lane	Merritt St.	Bessey St.		Resurfacing of existing semi-urban asphalt laneway	
		Linwell Rd. E	End	Read Rd.		Pulverize road and resurface	
		Other locations to be determined				Annual - priority location(s) to be determined	

2022 CAPITAL BUDGET
ROADS (SCHEDULE B)

Project No.	Project Type	Project Name / Location	From	To	Gross Cost	Details	Notes
P22-097	RP	Traffic Signals (including pedestrian crossings)		Various Locations	\$ 300,000	Annual - priority location(s) to be determined	
P22-098	RP	Street Lights		Various Locations	100,000	Address various identified deficiencies in existing City street light system	
P22-099	E	CCTV Installation Within Road Right of Way		Various locations	45,000	Project to add 12 new cameras at 6 locations in the City to be utilized by the NRPS to enhance safety. Funded by the City, Province and NRPS	
P22-123	RN	Rockwood Ave Culvert (C117M) Replacement & Road Resurfacing	Carriage Rd.	Woodrow St.	96,100	Mill and resurface roadway in conjunction with culvert replacement	CP,3b
Subtotal					\$ 7,602,700		
					\$ 9,727,100		

NOTES: CP - Co-ordinated projects involving more than one asset group (see Schedule S)
 As per TMP road classes: 1a. Community Street; 2a. Downtown Corridor; 2b. Downtown Community Street;
 3a. Collector Mixed -Use Corridor; 3b. Collector Residential Corridor; 3c. Collector Industrial Corridor;
 4a. Main Mixed-Use Corridor; 4b. Main Residential Corridor; 5a. Rural Corridor; 5b. Rural Community Street

2022 CAPITAL BUDGET
SIDEWALKS, WALKWAYS AND MULTI-USE PATHWAYS (SCHEDULE C)

Project No.	Project Type	Project Name/Location	From	To	Gross Cost	Details	Notes
Previously Budgeted Sidewalks and Walkways Projects - Additional Budget Requirements							
P18-062		Lake St. Road and Underground Improvements			\$ 180,250		CP, 4a
	E	Lake St.	Ontario St.	Queen St.		Construct new sidewalk for system completion in conjunction with road reconstruction	
	RP	Lake St.	Ontario St.	Welland Ave.		Sidewalk replacement in conjunction with road reconstruction	
Subtotal					\$ 180,250		
New Sidewalks and Walkways Projects							
P22-040	RN	2022 Walkway Improvements			\$ 50,600	Annual walkway capital repair program locations to be determined	
P22-040-1	RP	Concrete Sidewalk Replacement Program			151,950	Replace existing sidewalks with identified deficiencies. Locations to be determined	
P22-041	E	New Sidewalk Installation Program			26,300	Annual - priority location(s) to be determined	
P22-042	E	Dorothy St. New Sidewalk			212,300	New sidewalk to improve network connectivity	1a
			Wolfdale Pl. Approx. 70m east of Joseph	Ernest St. Elma St.			
P22-062	RP	Pinecrest Ave. Reconstruction	Glendale Ave.	Bessey St.	58,100	Sidewalk replacement in conjunction with road reconstruction	CP, 1a
Subtotal					\$ 499,250		

Project Type: RP = Replacement, RN = Renewal, E = Expansion,
NI = Non-Infrastructure Solutions, M = Maintenance, D = Disposal

2022 CAPITAL BUDGET
SIDEWALKS, WALKWAYS AND MULTI-USE PATHWAYS (SCHEDULE C)

Project No.	Project Type	Project Name/Location	From	To	Gross Cost	Details	Notes
New Multi-Use Pathways							
P22-068	RN	City-Wide Trail Improvements			\$ 960,600	Signed routes, paved shoulders, bike lane and multi-use trail, scope to be determined from Active Transportation Master Plan	
		Participation Trail	Twelve Mile Creek	Top of bank, approx.		Address identified deficiency in hill section of trail	
		Welland Canal Trail	North of Carlton St.	Linwell Rd.		Resurface existing trail and widen where possible	
		Other Various Locations					
P22-069	E	Active Transportation Priorities			252,800	Annual - priority location(s) to be determined	
P22-169	E	Pathway - Hydro Corridor (P7)	Rykert St.	Pelham Rd.	768,400	Trail development and the construction of a pedestrian pathway and access points to the neighbourhood	
				Subtotal	\$ 1,981,800		
					\$ 2,661,300		
		Additional budget for Sidewalks within Regional Projects (Schedule K)			\$ 724,000		

NOTES: CP - Co-ordinated projects involving more than one asset group (see Schedule S)
As per TMP road classes: 1a. Community Street; 2a. Downtown Corridor; 2b. Downtown Community Street;
3a. Collector Mixed -Use Corridor; 3b. Collector Residential Corridor; 3c. Collector Industrial Corridor;
4a. Main Mixed-Use Corridor; 4b. Main Residential Corridor; 5a. Rural Corridor; 5b. Rural Community Street

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Stormwater (Storm Sewer Collection System including Sewer Separation) (Schedule D)

The City of St. Catharines is committed to providing effective, sustainable, and reliable drainage of stormwater to both protect and benefit the community and environment.

Provided by:

404 km of Storm Sewers

31 Oil & Grit Separators

1 constructed wetland and several natural and manmade ponds and open drainage channels

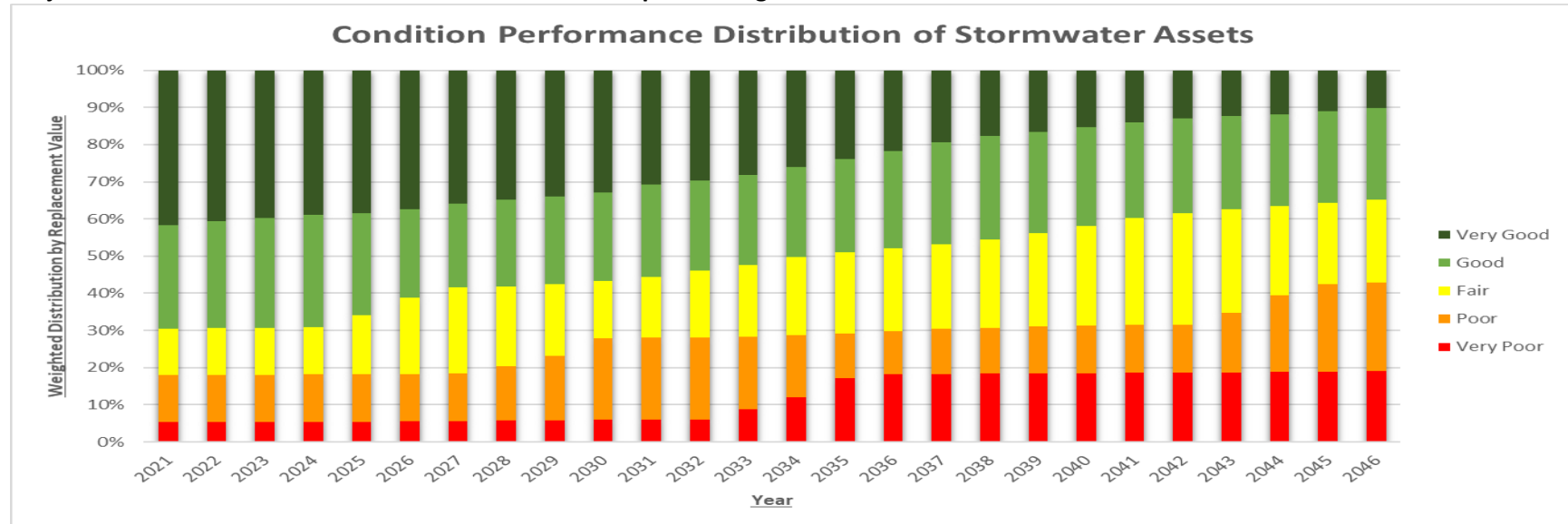
Value and Condition (As provided in the 2021 Corporate AMP for Core Assets)

Total replacement value: \$876 million

Current backlog of work: \$ 46.5 million

Current average condition: Good

Projected Condition Distribution Performance with Anticipated Budget



Unlike sanitary and combined sewers, storm sewers have not been inspected historically and as a result, it has been more difficult to assess their condition. A City-wide zoom camera inspection of all the sewer systems, including storm sewers, started in August 2017 is now complete. Results from the zoom camera inspection have helped develop a baseline of sewer conditions. The zoom camera inspection also has helped in targeting sewer sections for further detailed investigations such as CCTV (Closed Circuit TV) camera inspections. Zoom camera inspections followed by CCTV inspections of sewers guide the decisions to rehabilitate or replace sewers independently or in conjunction with other infrastructure projects.

Current Strategy

Renewal and Replacement: Rehabilitation of storm sewers is intended to ensure an adequate level of service and to reduce the likelihood of flooding in areas adjacent to the storm sewers. Deficiencies in the storm sewer system include blockages from damaged pipe sections, silt or debris accumulation and root infiltration. These restrict capacity and may lead to flooding during periods of high flow. Deficiencies also include other physical attributes of the sewers and expected consequences such as a structurally deteriorated sewer section that is still functioning but on the verge of collapsing.

Non - infrastructure Solutions: Tools such as zoom camera inspections and CCTV inspections are utilized to gauge the condition of sewers and to implement suitable maintenance, rehabilitation, or replacement strategies at appropriate times. These tools/methods also help in prioritizing needed works to match available budgets. Hydraulic and hydrologic modelling and studies monitor system capacity requirements.

Expansion of Services: Expansion of the network may be undertaken to support growth and development or to meet demands of users.

New storm sewers are installed in areas with combined sewers to divert stormwater drainage away from sanitary drainage. This practice is called sewer separation and is recommended in the Pollution Control Plan. Storm water is then conveyed to a storm water outfall for discharge directly into the environment. This reduces the risk of basement flooding by the pre-existing combined sewer, improves environmental outcomes and reduces the volume of flows which are treated at a wastewater treatment plant.

In some cases, additional features such as oil-grit separators or stormwater ponds may be added to storm sewer systems to increase the water quality of stormwater discharges to the environment.

Construction of new assets will have a direct impact on the operation and maintenance budget. The full extent of the impacts will be dependent on the design and level of services provided.

Highlights

- Separation of approx. 1,070m of combined sewers,
- Coordination with Niagara Region for RR87 Main Street / Lock Street / Lakeport Road (see Schedule K)
- Coordination with Thorold for St. David's Road and Townline Road West

2022 CAPITAL BUDGET
STORM SEWER COLLECTION SYSTEM - INCLUDING SEWER SEPARATION (SCHEDULE D)

Project No.	Project Type	Project Name/Location	From	To	Gross Cost	Details	Notes
Previously Budgeted Projects - Additional Budget Requirements							
P17-067	RP	St. Davids Rd. / Townline Rd. W	Burleigh Hill Dr.	Merritt St.	\$ 556,100	Additional funds for City share of costs for the construction of a new storm sewer	
P18-062	E	Lake St. Road and Underground Improvements	Ontario St.	Welland Ave.	171,900	Construction of storm sewer in conjunction with underground improvements and road reconstruction	CP
Subtotal					\$ 728,000		
New Projects							
P22-001	E	Mitchell / Morgan / Richmond Mitchell St. Morgan St. Richmond Ave.	Eastchester Ave. Mitchell St. Queenston St.	North End Richmond Ave. 140m North of Morgan St.	\$ 116,300	Engineering services for new storm sewer installation in conjunction with watermain replacement and road works	CP
P22-006	RP	Catch Basins and Storm Service Installations		City-Wide	101,100	Installation of catch basins, catch basin leads and storm laterals to alleviate isolated surface flooding	
P22-014	NI	Storm Sewer CCTV Inspections		City-Wide	101,100	CCTV sewer inspections for condition assessment of existing storm sewers including large diameter pipes	
P22-015	NI	Design for Next Year's Projects		City-Wide	50,600	Engineering services for future storm drainage system projects as required	

Project Type: RP = Replacement, RN = Renewal, E = Expansion,
NI = Non-Infrastructure Solutions, M = Maintenance, D = Disposal

2022 CAPITAL BUDGET
STORM SEWER COLLECTION SYSTEM - INCLUDING SEWER SEPARATION (SCHEDULE D)

Project No.	Project Type	Project Name/Location	From	To	Gross Cost	Details	Notes
P22-016	RP	Storm Sewer Spot Repairs		City-Wide	\$ 252,800	Spot repairs of storm sewers at various locations as necessary	
P22-020	E	Maplewood Dr.	Niagara St.	Linwell Rd.	116,300	Engineering services for design of a new storm sewer to alleviate surface flooding issues	
Subtotal					\$ 738,200		
					\$ 1,466,200		
Additional budget for Storm Sewers within Regional Projects (Schedule K)					<u>\$ 670,000</u>		

NOTES: CP - Co-ordinated projects involving more than one asset group (see Schedule S)

Wastewater (Sanitary Sewer Collection System and Pollution Control)

(Schedules E & F)

The City of St. Catharines is committed to providing sustainable and reliable collection and conveyance of wastewater that avoids basement flooding and environmental impacts.

Provided by:

563 km of wastewater sewers

9 Wastewater Storage Facilities

1 Wastewater Pump Station

Value and Condition (As provided in the 2021 Corporate AMP for Core Assets)

Total replacement value: \$1.5 billion

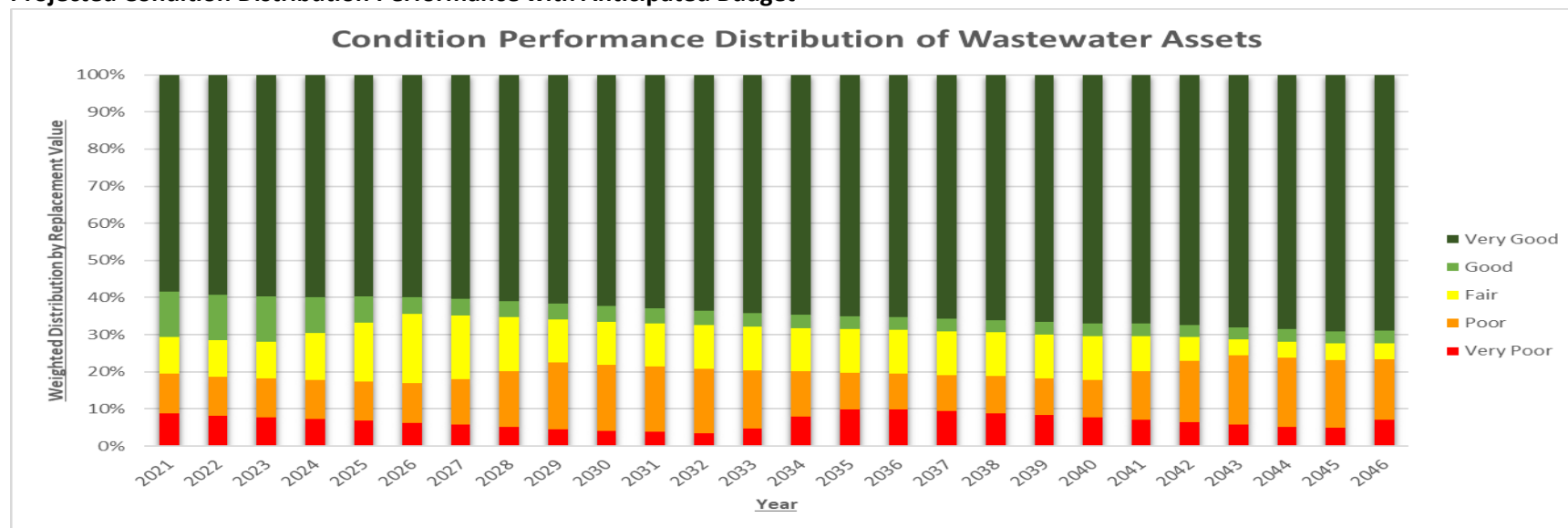
Current backlog of work: \$146 million

Current average condition: Good

Highlights

- 1,960m of sewer sections budgeted to be replaced.
- Approximately 550m of a sewer along Spring Garden Creek to be re-lined.
- Coordination with Niagara Region for RR87 Main Street / Lock Street / Lakeport Road (see Schedule K).

Projected Condition Distribution Performance with Anticipated Budget



The Wastewater system includes the City’s sanitary sewers, combined sewers and partially separated combined sewers and associated sewage storage facilities. Combined sewers convey both sanitary sewage and storm water within one pipe and are a legacy of pre1960’s construction.

A City-wide zoom camera inspection of the sewer systems started in August 2017 is now complete. Results from the zoom camera inspection have helped develop a baseline of sewer conditions. The zoom camera inspection also has helped in targeting sewer sections for further detailed investigations such as CCTV (Closed Circuit TV) camera inspections. Zoom camera inspections followed by CCTV inspections of sewers guide the decisions to rehabilitate or replace sewers independently or in conjunction with other infrastructure projects.

Current Strategy

In 2019, Council approved a 10 - Year Financial Plan for Water and Wastewater (The Water/Wastewater Plan). The Plan includes year over year increases for investment in capital infrastructure, which will reduce the funding gap for this asset class. As a result of the financial and operational challenges facing the City caused by COVID19, the budget and forecast years shown in Table 1 reflect a reallocation of the investment in Sanitary Sewer Collection Systems and Pollution Control. Increases in spending in the years of 2024 through 2026 result in the same net investment in infrastructure, over the next 6 years. A Pollution Control Plan guides the City’s efforts to meet provincial guidelines for the discharge of combined sewage to the natural environment.

Renewal and Replacement: Deficiencies in the sewer system include blockages from collapsed pipe sections, grease accumulation and severe root infiltration, which restricts capacity

and may lead to backup during periods of high flow. Deficiencies also include apparent physical condition of the sewers and expected consequences such as a structurally deteriorated sewer section that is still functioning but on the verge of collapsing. Rehabilitation of these sewers is intended to ensure an adequate level of service and to reduce the likelihood of basement flooding in adjacent and upstream areas of the sewer system.

Table 1

Year	Plan (\$000)	Proposed (\$000)	Change (\$000)
2021	\$ 5,362	\$ 4,762	\$ (600)
2022	5,959	2,884	(3,075)
2023	6,562	8,737	2,175
2024	7,173	7,473	300
2025	7,797	8,397	600
2026	8,433	9,033	600
Total	\$ 41,286	\$ 41,286	\$ -

Non-infrastructure Solutions: Tools such as zoom camera inspections and CCTV inspections are utilized to gauge the condition of sewers and to implement suitable maintenance, rehabilitation or replacement strategies at appropriate times. These tools/methods also help in prioritizing needed works to match available budgets. Hydraulic studies and modelling in house and by third party consultants are completed to evaluate system capacity.

Expansion of Services: Expansion of the network may be undertaken to support growth and development or to meet demands of users. Pollution Control (Schedule F) includes \$200,000 for implementation of recommendations of a pending Pollution Control Plan Update.

2022 CAPITAL BUDGET
SANITARY SEWER COLLECTION SYSTEM (SCHEDULE E)

Project No.	Project Type	Project Name/Location	From	To	Gross Cost	Details	Notes
New Projects							
P22-001	RP	Mitchell / Morgan / Richmond	Queenston St.	140m North of Morgan St.	\$ 50,000	Engineering services for replacement of sanitary sewer in conjunction with watermain replacement and road works	CP
P22-005	RN	Sanitary Sewer Reaming and Lining Spring Garden Creek Trunk Sewer Various Other Locations	Old Coach Rd.	Duncan Dr.	1,484,954	Sewer lining to address identified deficiencies	
P22-010	NI	Extraneous Flow Elimination		City-Wide	50,000	Study to determine sources of inflow and infiltration into sanitary sewer	
P22-011	M	Sanitary Sewer Spot Repair Program		City-Wide	500,000	Spot repairs for sanitary sewers as required	
P22-012	M	Sanitary Sewer Flushing & Reaming		City-Wide	25,000	Sewer flushing and reaming for physical cleaning of selected sewer sections with operational issues	
P22-014	NI	CCTV Sewer Inspections		City-Wide	300,000	CCTV inspections of existing sewers to identify condition and future works	
P22-015	NI	Design for Next Year's Projects		City-Wide	50,000	Engineering services for future sanitary collection system projects as required	

Project Type: RP = Replacement, RN = Renewal, E = Expansion,
NI = Non-Infrastructure Solutions, M = Maintenance, D = Disposal

2022 CAPITAL BUDGET
SANITARY SEWER COLLECTION SYSTEM (SCHEDULE E)

Project No.	Project Type	Project Name/Location	From	To	Gross Cost	Details	Notes
P22-019	NI	Sewershed Analysis		City-Wide	\$ 10,000	Engineering services for sewershed capacity analysis as required	
P22-061	NI	James St. EA	King St.	Church St.	39,000	EA for reconstruction of James St. and construction of a public multi-use space	CP
Subtotal					<u>\$2,508,954</u>		

Additional budget for Sanitary Sewers within Regional Projects (Schedule K) \$ 175,000

NOTES: CP - Co-ordinated projects involving more than one asset group (see Schedule S)

2022 CAPITAL BUDGET
POLLUTION CONTROL (SCHEDULE F)

Project		Project Name	Gross Cost	Details
Project No.	Type			
New Projects				
P22-021	E	Pollution Control Priority Program	\$ 200,000	Implement Pollution Control Plan initiatives to reduce combined sewer overflows
			<u>\$ 200,000</u>	

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Water Distribution System (Watermains) (Schedule G)

The City of St. Catharines is committed to providing a sustainable and reliable supply of safe, high quality drinking water in accordance with regulatory requirements.

Provided by:

594 km of Watermains

3,559 Hydrants

5,706 Valves

41,816 Water Meters

1 Booster Pumping Station and 1 Bulk Water Station

Highlights

- Construction funding for 5 locations
- Design for 3 projects at 5 locations for future watermain replacement
- 5,060m of cast iron watermains budgeted to be replaced.
- Coordination with Niagara Region for RR87 Main Street / Lock Street / Lakeport Road (see Schedule K)

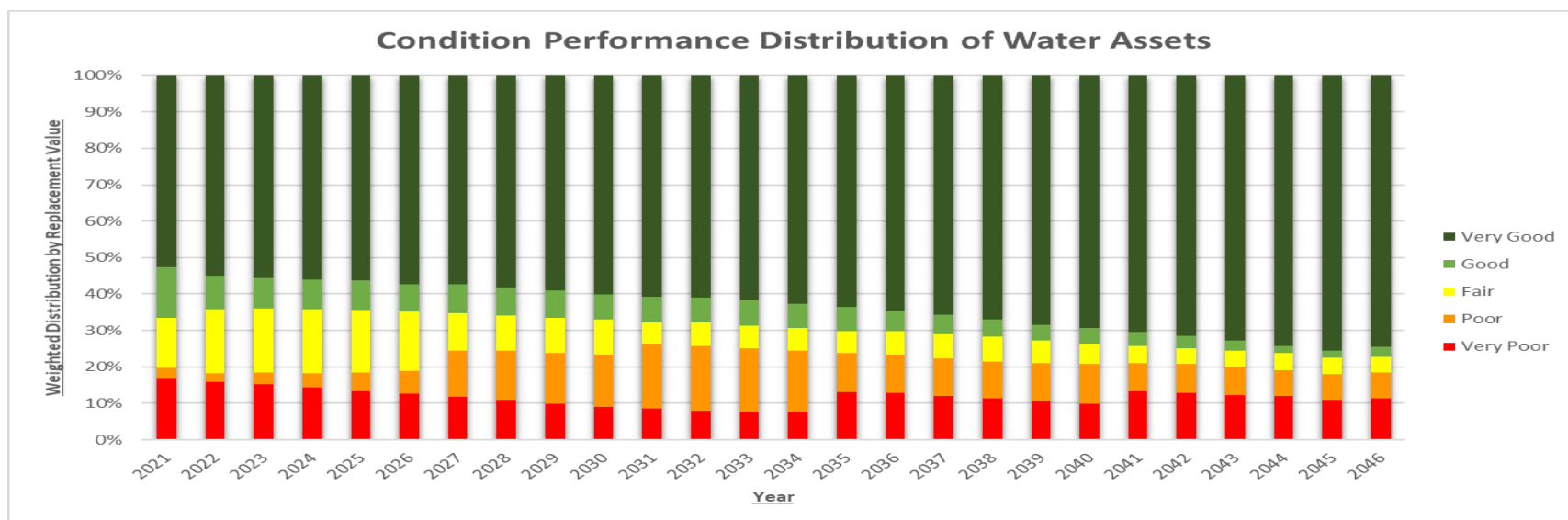
Value and Condition (As provided in the 2021 Corporate AMP for Core Assets)

Total replacement value: \$ 1.367 billion

Current backlog of work: \$ 249 million

Current average condition: Good

Projected Condition Distribution Performance with Anticipated Budget



Current Strategy

Staff continues to monitor the number and location of existing watermain breaks. Figures 1 and 2 present records for the past 15 years and reflect the high variability in the number of annual watermain breaks. Despite the variability in annual watermain breaks, a continuous targeting of watermains with relative high break rates for replacements seems to be gradually reducing the long-term average number of annual watermain breaks. The increasing age of existing watermains makes the watermains more prone to possible failures. A proactive approach is necessary to keep the watermain system in a good and reliable condition which also reduces maintenance costs and the risks of contamination of the system. Despite these mitigation strategies, while capital reinvestment remains under the target levels, break rates could increase again in the future.

In 2019, Council approved a 10 - Year Financial Plan for Water and Wastewater (The Water/Wastewater Plan). The Plan includes year over year increases for investment in capital infrastructure, which will reduce the funding gap for this asset class. As a result of the financial and operational challenges facing the City caused by COVID19, the 2022 budget and 2023-2026 forecast reflects a reallocation of the investment in the water distribution system, as shown in the Table 1. Increases in spending in the years of 2024 through 2026 result in the same net investment in infrastructure, over the next 6 years. However, in the short term, the spending deferrals will continue to contribute to the widening infrastructure gap.

Renewal and Replacement:

Replacements are prioritized based on watermain break histories, coloured water issues, and in conjunction with other projects. Council directed that each year's water budget should include an allocation of at least \$750,000 for the replacement of deteriorated

cast iron watermains in areas experiencing coloured water problems. Approximately 24% of the City's watermain system is comprised of cast iron watermains. Not all cast iron watermains have reached the end of their useful lives.

Table 1

Year	Plan (\$000)	Proposed (\$000)	(Decrease)/Increase (\$000)
2021	\$ 9,329	\$ 8,129	\$ (1,200)
2022	10,516	8,287	(2,229)
2023	11,726	11,755	29
2024	12,961	13,761	800
2025	14,220	15,420	1,200
2026	15,504	16,904	1,400
Total	\$ 74,256	\$ 74,256	\$ -

Expansion of Services: Expansion of a watermain network could be undertaken to support growth and development or to meet existing users' demand. A twinning of an existing watermain on Lakeport Road between Old Lakeshore Road and Lock Street in conjunction with Regional roadworks has been identified for 2022 funding to improve reliability of water supply to the Port Dalhousie area.

Non-Infrastructure Solutions: Environmental assessments, geotechnical investigation and design for future waterworks are undertaken in advance of proposed larger construction projects. Watermain projects can take several months to years; and include public consultation and the preparation of finalized designs. Hydraulic modelling and studies are undertaken by third party engineering experts, as required, to understand system capacity.

Figure 1

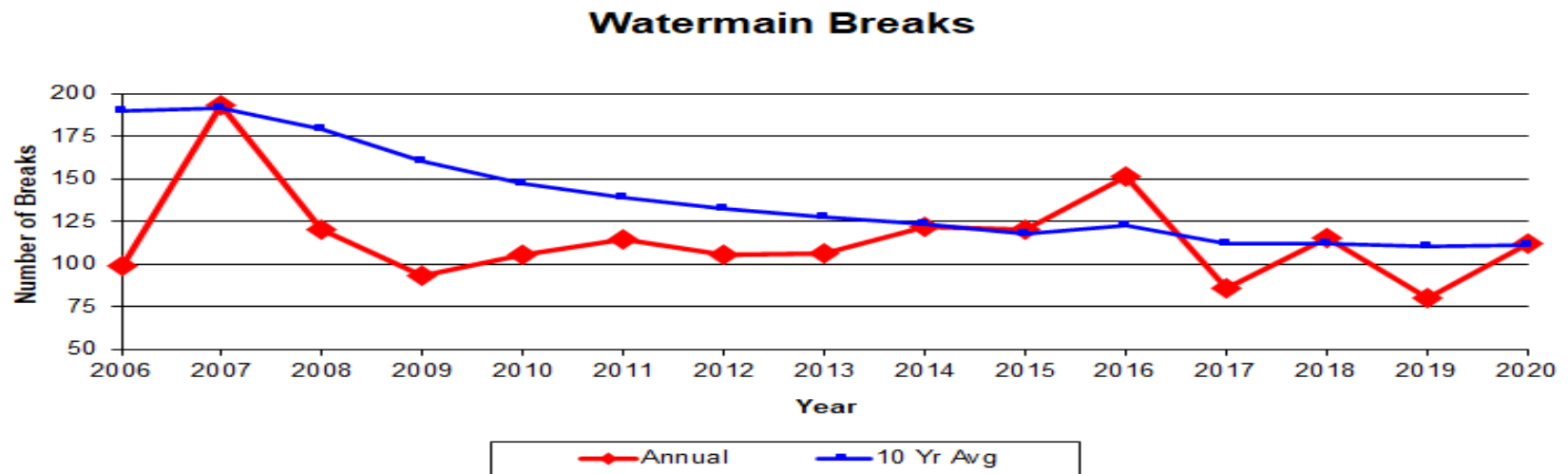
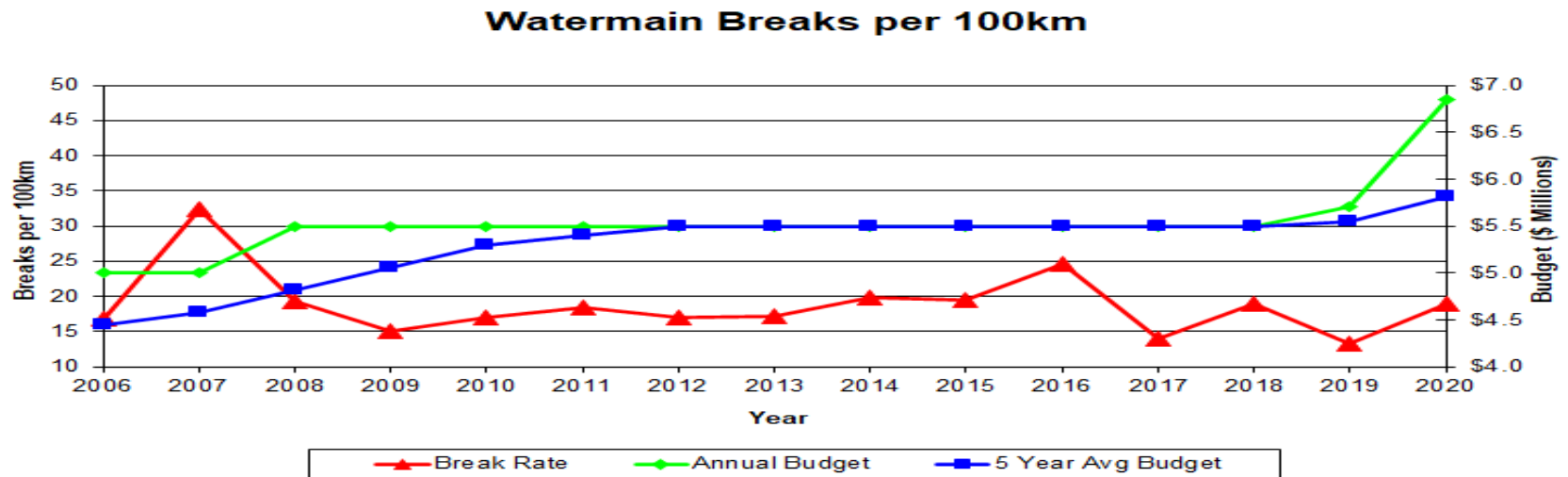


Figure 2



2022 CAPITAL BUDGET
WATER DISTRIBUTION SYSTEM - WATERMAINS (SCHEDULE G)

Project No.	Project Type	Project Name/Location	From	To	Gross Cost	Details	Notes
Previously Budgeted Projects - Additional Budget Requirements							
P18-062	RP	Lake St. Road and Underground Improvements	Ontario St.	Welland Ave.	\$ 998,756	Construction funds for replacement of existing Cast Iron (C.I.) watermain in conjunction with road reconstruction	CP
P20-102	RP	Lakeshore Rd. at Welland Canal	Broadway	85m west of Broadway	245,000	Additional funds to replace/upgrade existing watermain across Welland Canal on Seaway Bridge	
P20-116	RN	Stortz Hydrant Port Conversions		City-Wide	450,000	Year 3 of 4-year plan for the highest priority conversion of existing hydrants to Stortz type pumper connections	
P21-003	RP	Ontario St. (RR#42) Underground Improvements	Carlton St.	60m North of Hiscott St.	2,700,000	Replacement of existing C.I. watermains in conjunction with sanitary and storm sewer spot repairs	
Subtotal					\$ 4,393,756		

2022 CAPITAL BUDGET
WATER DISTRIBUTION SYSTEM - WATERMAINS (SCHEDULE G)

Project No.	Project Type	Project Name/Location	From	To	Gross Cost	Details	Notes
New Projects							
P22-001	RP	Mitchell / Morgan / Richmond			\$ 100,650	Design for the replacement of existing C.I. watermain in conjunction with storm sewer installation and road works	CP
		Mitchell St.	Eastchester Ave.	End			
		Morgan St.	Queenston St.	Richmond Ave.			
		Richmond Ave.	Queenston St.	240m north of Queenston St.			
P22-061	NI	James St. EA	King St.	Church St.	53,000	EA for reconstruction of James St. and construction of a public multi-use space	CP
P22-063	RP	Parnell Rd. Reconstruction			148,500	Engineering services for abandonment of existing C.I. watermain in conjunction with sanitary and storm sewer works and road reconstruction	CP
			Richelieu Dr.	Cartier Dr.			
			Cartier Dr.	Niagara St.			
P22-064	RP	Blue Spruce / Huntingwood			255,000	Replacement of existing C.I. watermain in conjunction with road reconstruction	CP
		Blue Spruce Court	Crescentwood Dr.	Cul-de-sac			
		Huntingwood Gate	Crescentwood Dr.	End			
P22-100	RP	Keistan Dr.	Nancy Dr.	Strathcona Dr.	475,000	Replacement of existing C.I. watermain	

2022 CAPITAL BUDGET
WATER DISTRIBUTION SYSTEM - WATERMAINS (SCHEDULE G)

Project No.	Project Type	Project Name/Location	From	To	Gross Cost	Details	Notes
P22-118	RP	Valves, Hydrants & Services		City-Wide	\$ 50,000	Replacement of existing valves, hydrants and services in conjunction with other works	
P22-119	NI	Design for Next Year's Projects		City-Wide	50,000	Engineering services for future waterworks projects as required	
				Subtotal	\$ 1,132,150		
					\$ 5,525,906		
Additional budget for Water Distribution within Regional Projects (Schedule K)					<u>\$ 2,761,000</u>		

NOTES: CP - Co-ordinated projects involving more than one asset group (see Schedule S)

Bridges and Major Culverts (Structures) (Schedule H)

The City of St. Catharines is committed to providing structures that connect transportation routes to provide a safe, efficient, accessible and sustainable transportation system for all required uses and modes of transportation in accordance with regulatory requirements and expectations of the community.

Provided by:

71 Bridges (including culverts with span > 3m)

46 Culverts

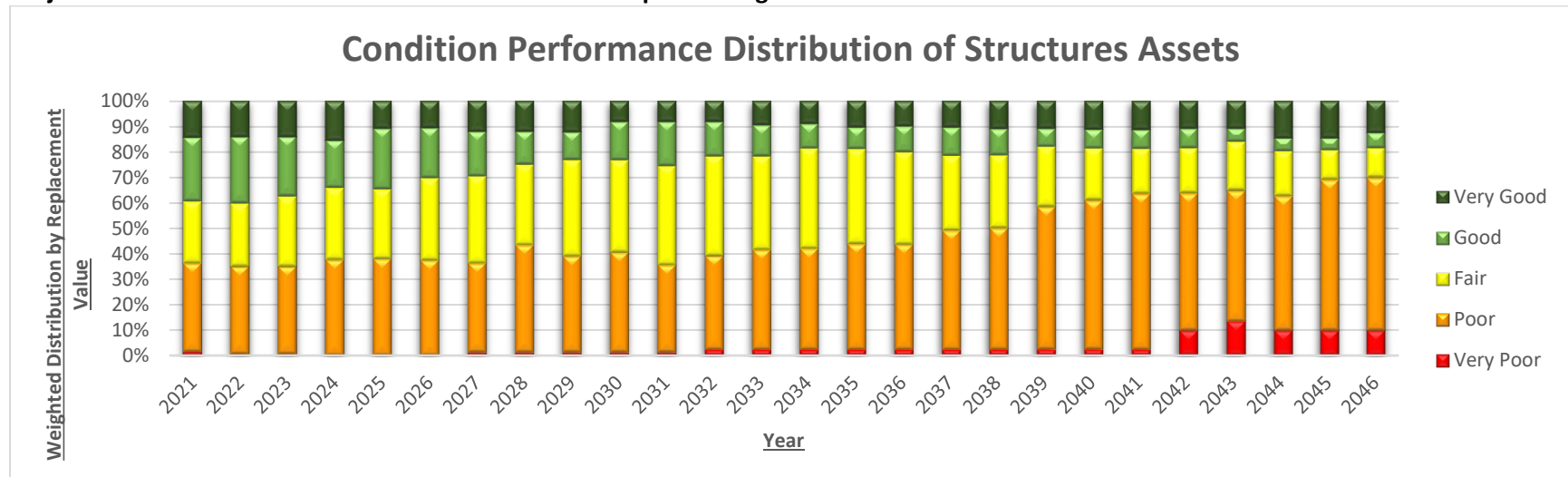
Value and Condition (As provided in the 2021 Corporate AMP for Core Assets)

Total replacement value: \$66 million

Current backlog of work: \$ 3 million

Current average condition: Fair

Projected Condition Distribution Performance with Anticipated Budget



The City follows the standards and best practices outlined in the Ontario Structure Inspection Manual to determine the condition of the bridges and culverts. Third party consultants, who are experts in the design and assessment of bridges, are engaged to complete these assessments. The inspection of bridges with a span of 3m or greater are legislated to be inspected every two years. All structures were inspected in 2020 and those with a span of 3m or greater will be reinspected in 2022 to meet regulatory requirements.

Current Strategy

Renewal and Replacement: Both pedestrian bridges and roadway structures are replaced when they reach the end of their useful life. Rehabilitation is undertaken to prolong the life of the asset. The recommended works are determined through inspections undertaken every two years, or as recommended. Other considerations such as the timing of proposed roadworks and watercourse improvements may advance or delay renewal or replacement of a structure.

Expansion of Services: Expansion of the network may be undertaken to support growth and development or to meet demands of users. When bridges are replaced, they are widened where possible to support active transportation or improve accessibility for all users.

Non- infrastructure Solutions: Three culverts have been identified as candidates for possible rehabilitation with trenchless solutions. The 2022 budget includes funding for design, which will examine these options compared to open cut replacements.

2022 Highlights

- Replacement of 3 pedestrian bridges that support active transportation
- Replacement of 1 roadway culvert
- Design for the future replacement or rehabilitation of 8 additional structures
- Biannual regulatory City-wide inspection

2022 CAPITAL BUDGET
BRIDGES AND MAJOR CULVERTS (SCHEDULE H)

Project No.	Project Type	Project Name	Location	Gross Cost	Details	Notes
New Projects						
P22-063	RP	Parnell Rd. Reconstruction		\$ 831,600		
		Culvert (C088S)	5m East of Bradman Dr		Design for future culvert replacement in conjunction with road works and underground improvements	CP
		Culvert (C094M)	120m Southwest of Niagara St.			
		Culvert (C101M)	Parnell Rd. at Bradmon Dr.			
		Culvert (C101M)	Parnell Rd. at Bradmon Dr.			
P22-121	RP	Niagara St. / Walkers Creek Park Pedestrian Bridges		470,400	Replace existing structure	
		Niagara Street Pedestrian Bridge (P048M)			East side of Niagara St., just North of house No. 700	
		Walkers Creek Pedestrian Bridge (P073S)			Walkers Creek Park access east of Strathcona Dr. at Costen Blvd.	
		Walkers Creek Pedestrian Bridge (P091S)			Walkers Creek Park access east of Strathcona Dr. at Keistan Dr.	
P22-122	NI	Battersea / Bunting / Melody Trail Culvert Rehabilitation		318,500	Review the feasibility to line the structure versus replacement	
		Battersea Avenue Culvert (C118M)				
		Bunting Road Culvert (C108M)				
		Melody Trail Culvert (C077S)				
P22-123	RP	Rockwood Ave. Culvert (C117M)	95m East of Carriage Rd.	455,000	Replace existing structure in conjunction with roadworks	CP
		Replacement & Road Resurfacing				
P22-130	RP	Rosedale Creek / Secord Creek	36m East of Bunting Rd.	27,300	Engineering services for structure replacement in conjunction with Creek EA and design	CP
		Environmental Assessment & Design				
				<u>\$ 2,102,800</u>		

NOTES: CP - Co-ordinated projects involving more than one asset group (see Schedule S)

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Shoreline Protection (Schedule I)

The City of St. Catharines is committed to providing sustainable and reliable Lake Ontario shoreline protection to prevent the erosion of City owned property and reduce impacts to private property.

Provided by:

3.625 km of Protected Shoreline

1.275 km of Unprotected City owned Shoreline

Value and Condition

Total replacement value: \$ 70 million

Current backlog of work: \$ 8.6 million

Highlights

- Maintenance of 635 metres of existing shoreline protection at two locations
- Design and construction of 10 metres of new shoreline protection
- Design of 50 metres of new shoreline protection

The City is working towards improving the stability of the City -owned Lake Ontario shoreline and installing protection at the high priority locations experiencing significant erosion due to fluctuating lake water levels.

Current Strategy

Renewal and Replacement:

Over time material within shoreline protection can wash away, creating weak points within the protection. Typically, rehabilitation of the material can be undertaken to prolong the life of the protection, however at times, replacement of the protection is required.

Non- infrastructure Solutions: City of St. Catharines engages third party consultants, who are experts in the design and assessment of shoreline protection, to complete reviews of the City owned shoreline. These reviews are completed every 3 to 5 years, dependent on the water levels of Lake Ontario, and provide the City with a list of priority locations for installation of new or replacement/renewal of existing protection.

The last review of the City owned protected and unprotected shoreline was completed in 2019 and the report was finalized in late 2020. The next review is currently planned to be completed in 2023 or 2024.

Expansion of Services: Expansion of the shoreline protection may be undertaken to support rising lake levels. The City is working to address known areas of erosion requiring new shoreline protection according to priority level. As additional areas of erosion along the shoreline are identified, the City will review these areas and determine the appropriate remediation actions. Construction of new assets will have a direct impact on the operation and maintenance budget. The full extent of the impacts will be dependent on the design and level of services to be provided.

2022 CAPITAL BUDGET
SHORELINE PROTECTION (SCHEDULE I)

Project No.	Project Type	Project Name / Location	Gross Cost	Details
New Projects				
P22-132		2022 Shoreline Protection	\$ 245,700	
	RN	Belmont Park		Repair of armour stone revetment deficiencies and placement of additional rip rap along existing shoreline protection
	E	Cherie Road Park		Engineering services and construction of shoreline protection to address deficiencies along Lake Ontario
	RN	Lantana Circle		Placement of additional rip rap along existing shoreline protection
P22-150-1	E	Sunset Beach	46,500	Engineering services for shoreline protection to address deficiencies along Lake Ontario in conjunction with parking lot reconstruction
			<u>\$ 292,200</u>	

Watercourses

(Schedule J)

The City of St. Catharines is committed to maintaining sustainable natural watercourses to prevent the erosion of City owned property and reduce impacts to private property

Provided by:

36.5 km of natural watercourse

2 flood control structures

21 former Welland Canal locks and 1 related feature

Value and Condition

Current backlog of work (watercourse only): \$46.1M based on 2015 Flooding and Erosion Control Priority Study Report

The 2015 study (Watercourse Flooding and Erosion Control Priority Study Report) identified 87 watercourse sites within the urban boundary that are eroded and need rehabilitation. Of those sites not yet addressed, 16 were identified as highest priority based on erosion levels with an estimated \$8.9 million cost for remediation. Based on high level estimates, the total citywide watercourse rehabilitation costs within the urban boundary, excluding Twelve Mile Creek, will be approximately \$46.1 million in 2020 dollars.

In 2018, a Dam Safety Review was completed for the Martindale Pond Weir and Heywood Generating Station on Twelve Mile Creek. These two structures control the water level in Martindale Pond. The review concludes that deficiencies exist in the existing weir and to a much lesser extent at the Heywood Generating Station. Additional studies will be carried out with existing funding to suggest alternatives and recommend a preferred option for the Weir.

In 2018, a detailed inspection program was undertaken on the exposed lock walls constructed for the first three Welland Canals. The report highlighted the need for capital work and translates into an average annual funding level of more than \$170,000 over a 10-year period.

Current Strategy

Renewal and Replacement: Natural watercourses will meander naturally within their valley bottoms. Rehabilitation is undertaken using natural channel design techniques when possible if a watercourse is negatively impacting public or private infrastructure.

Dam structures and structures associated with the former Welland Canals are rehabilitated as identified to maintain watercourse function.

Coordination with other infrastructure improvements such as bridge and culverts may accelerate or delay watercourse rehabilitation.

Non- infrastructure Solutions: City of St. Catharines engages third party consultants, who are experts in the design and assessment of

watercourses, to complete reviews of the City owned watercourses and culverts which have less than 3m spans (ie. are not bridges) in the watercourses. These reviews are completed every 5 to 10 years and provide the City with a list of priority locations for erosion rehabilitation and / or flooding.

Highlights

- Martindale Pond Weir – additional funding for detailed design
- Spring Garden Creek - construction funding
- Rosedale Creek and Secord Creek - initial funding to initiate a Class Environment Assessment

2022 CAPITAL BUDGET
WATERCOURSES (SCHEDULE J)

Project No.	Project Type	Project Name	From	To	Gross Cost	Details	Notes
Previously Budgeted Projects - Additional Budget Requirements							
P17-129	RN	Martindale Pond Weir Replacement	Approx. Lakeport Rd.	Weir	\$ 692,900	Rebudget funds reallocated in 2021. For replacement weir to address identified deficiencies in weir controlling water level in Martindale Pond and in conjunction with Heywood Generating Station improvements	
P21-129	RN	Spring Garden Creek Construction	Old Coach Rd.	Lakeshore Rd.	1,324,500	Construction to address priority items identified by EA	
Subtotal					\$2,017,400		
New Projects							
P22-130	RN	Rosedale Creek / Secord Creek Environmental Assessment & Design			\$ 50,600		
		Rosedale Creek	Secord Creek	Victoria Lawn Cemetery		Engineering Services to address previously identified deficiencies and in conjunction with culvert replacement (C109M)	CP
		Secord Creek	Hartzel Rd.	Secord Woods Park		Engineering Services to address previously identified deficiencies	
Subtotal					\$ 50,600		
					<u>\$2,068,000</u>		

NOTES: CP - Co-ordinated projects involving more than one asset group (see Schedule S)

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Regional Projects (Schedule K)

This schedule includes the City's share of municipal works (such as sewer repairs, watermain replacements, sidewalk replacements and new storm sewer construction) on projects undertaken in cooperation with the Regional Municipality of Niagara. The Region consults with the City, when determining the timing of projects, which are managed by the Region. Coordinating the City's efforts in this way helps to minimize cost and disruption to the affected residents and businesses and provides infrastructure renewal within the City.

For more information on the service areas impacted by these regional projects refer to other sections of this document, Sidewalks, Storm Sewer, Sanitary Sewer and Water Distribution.

For 2022, Niagara Region Transportation Division advised they may proceed with tendering for road reconstruction at one location,

Regional Road 87 consisting of Main Street, Lock Street and Lakeport Road in Port Dalhousie. The 2022 Capital budget includes a City's share of costs for coordinated underground infrastructure and sidewalk improvements.

Also recommended for 2022 is funding of a recently identified additional cast iron watermain replacement which will benefit from being coordinated with the Region's St. Paul Street West bridge replacement project and / or the Region's redevelopment of the St. Catharines train station precinct.

2022 Regional Water and Wastewater Division activities are predominately within Region owned facilities and not anticipated to trigger 2022 coordinated City infrastructure upgrades.

2022 CAPITAL BUDGET
REGIONAL PROJECTS (SCHEDULE K)

Project No.	Project Type	Project Name	From	To	Gross Cost	Details
Previously Budgeted Projects- Additional Budget Requirements						
Watermains						
RN20-stp	RP	St. Paul Street at CNR Bridge Replacement			\$ 275,000	Additional funds for replacement of existing C.I. watermain in conjunction with Regional bridge replacement project
Subtotal					\$ 275,000	
New Projects						
Sanitary						
RNxx-ONT	RP	Region - Ontario Street (RR42) Reconstruction			\$ 175,000	Capital repairs to existing sewers in conjunction with Region's roadworks
		Ontario St.	Linwell Rd.	Lakeshore Rd.		
Sidewalk						
RNxx-ONT	RP	Region - Ontario Street (RR42) Reconstruction			491,000	Replace deteriorated sidewalks in conjunction with Region's road urbanization
		Ontario St.	Linwell Rd.	Lakeshore Rd.		
RNxx-ONT	E	Region - Ontario Street (RR42) Reconstruction			233,000	Construct new sidewalk for system completion in conjunction with the Region's road reconstruction
		Ontario St.	Linwell Rd.	Lakeshore Rd.		

2022 CAPITAL BUDGET
REGIONAL PROJECTS (SCHEDULE K)

Project No.	Project Type	Project Name	From	To	Gross Cost	Details
Storm						
RNxx-ONT		Region - Ontario Street (RR42) Reconstruction			\$ 670,000	
	RN	Ontario St.	Linwell Rd.	Lakeshore Rd.		Rehabilitate existing storm sewers in conjunction with Region's road urbanization
	E	Ontario St.	Linwell Rd.	Fairview Creek		City's share of new storm sewers in conjunction with Region's road urbanization
Watermains						
RNxx-ONT	RP	Region - Ontario Street (RR42) Reconstruction			2,486,000	
		Ontario St.	Linwell Rd.	Lakeshore Rd.		Replace C.I. watermain in conjunction with Region's roadworks
				Subtotal	\$4,055,000	
					<u>\$4,330,000</u>	

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Community, Recreation and Culture Services (CRCS)

Non-Facilities Assets (Schedule L)

The City of St. Catharines is committed to being The City Where Everybody Can Play.

CRCS Spotlight – Parks Renewal Plan

Provided by:

72 Playgrounds

15 Tennis courts (3 locations convertible to pickleball)

23 Basketball courts

Value and Condition

Total replacement value within the next 5 years: \$12.55 million

Total replacement value within the next 10 years: \$15 million

Current average condition: 67% of the Parks Renewal Plan Assets require replacement within the next five years.

Note: the above information is also available for other areas of CRCS.

Current Strategy

Renewal and Replacement

The Aquatics Facilities Strategy provides recommendations on the long-term operating sustainability and health of the City's aquatics system. The 2022 Capital Budget includes \$1 M towards the installation of a splashpad, seasonal washroom facility and sun shelter.

The **Environmental Hanging Basket Program** will transition assets to a more environmentally responsible product. The Environmentally Friendly Hanging Baskets Program will replace baskets each year from 2022-2024. This program is aligned with the City's declaration of a Climate State of Emergency.

The Memorial Bench Program will replace 50 benches per year from 2020-2025 with the replacements concluding in 2025. The new benches will be made from composite materials that are expected to last 25-30 years. The City currently has an inventory of wooden benches with many of the benches approaching end of useful life.

The City's **Parks Renewal Plan** prioritizes asset renewal based on asset condition, as well as health and safety considerations, with the assets in the poorest condition being prioritized for replacement. Playground equipment and court renewal as well as upgrades are required to maintain service levels and ongoing safe play spaces.

The City's **Tree Planting Program** helps improve air quality and add economic value, beauty, and shade to its neighborhoods. Trees are planted on public boulevards, road allowances fronting residences, and in circles where trees are currently not planted. This capital program assists in increasing the tree canopy percentage on both public and private property. The 2022 budget will allow the City to hold two tree giveaways intended to assist in reaching the City's 30% tree canopy goal by 2030.

Restoration of William Hamilton Merritt Statue includes conservation as the bronze components of the monument have received minimal maintenance since its construction and the lacquer is now failing, causing corrosion. In addition, the granite base has also begun to mal-function and it is evident that the base has been shifting. Many of the joints have opened and the sealant failed creating concern for the monument's structural stability.

The Pic Leeson Park Ball Diamond will replace ball diamond assets which are at end of useful life and address asset deficiencies to maintain level of service.

Expansion of Services:

The goal of the **Parks Legacy Fund** is to match alternative sources of funding such as donations, legacy giving and community projects to renew, and upgrade play assets in City parks. The Parks Legacy Fund will help to mitigate the financial implications of the Parks Renewal Plan by leveraging City funds with matching community donations so that twice as much work can be completed.

See Schedule M and the related narrative for information on Sunset Beach.

Highlights

- The Parks Renewal Plan will replace 2 playgrounds, 4 basketball courts and 2 tennis courts
- One cultural asset restoration
- Over 55 hanging baskets converted to environmentally friendly
- New ball diamond at Pic Leeson Park
- 50 memorial benches replaced
- New splashpad, seasonal washroom facility and sun shelter
- Two free tree giveaways

2022 CAPITAL BUDGET
COMMUNITY, RECREATION AND CULTURE SERVICES (SCHEDULE L)

Project No.	Project Type	Project Name	Gross Cost	Details	Notes
Previously Budgeted Projects - Additional Budget Requirements					
P21-156	E	Splashpad, Sun Shelter & Washroom	\$ 1,000,000	Installation of a splashpad, seasonal washroom facility and sun shelter as per the Aquatics Facilities Strategy approved by Council in Q3 2021 (CRCS-042-2021)	
PRC21-04	RN	Parks Renewal Plan - Bogart St Park Basketball/Tennis/Pickleball Court & Playground	56,000	Replace basketball/tennis/pickleball assets which are at end of useful life, and maintain level of service	
Subtotal			\$ 1,056,000		
New Projects					
PRC22-01	RP	Memorial Bench Program (Year 3 of 6)	\$ 80,000	Replace assets which are approaching end of useful life and maintain level of service	
PRC22-02	NI	Tree Planting Program	375,000	Address asset deficiencies and move towards achieving Council approved tree canopy goal of 30%	
PRC22-03	RP	Environmentally Friendly Hanging Baskets (Year 1 of 3)	35,000	This project will transition to a more environmentally responsible product, requiring less frequent watering	
PRC22-04	RP	Parks Legacy Fund	250,000	The Parks Legacy Fund will annually leverage and match alternative funding to maintain and enhance parks levels of service. Project(s) still to be determined for 2022 (As approved by Council on October 7, 2019)	

Project Type: RP = Replacement, RN = Renewal, E = Expansion,
NI = Non-Infrastructure Solutions, M = Maintenance, D = Disposal

2022 CAPITAL BUDGET
COMMUNITY, RECREATION AND CULTURE SERVICES (SCHEDULE L)

Project No.	Project Type	Project Name	Gross Cost	Details	Notes
PRC22-05	RN	Restoration of William Hamilton Merritt Statue	\$ 135,000	Address structural and maintenance issues and reduce health and safety concerns	
PRC22-06	RN	Relocation of Private Watson Statue	100,000	To remove the Private Watson Monument from City Hall and preserve it to ensure public safety (CRCS-127- 2021)	
P22-061	NI	James St. EA	266,000	EA for construction of a public multi-use space in conjunction with reconstruction of James St.	CP
P22-162	RP	Burgoyne Woods Playground - Parks Renewal Plan	450,000	Replace playground, and add accessible pathway to multi-use courts, curb faced sidewalk in parking lot and sun shelter (CRCS-B017-2021)	PA
P22-163	RP	Clifford's Creek Park Basketball Court - Parks Renewal Plan	120,000	Replace court which is at end of useful life, and maintain level of service as per the Parks Renewal Plan (CRCS-B017-2021)	PA
P22-164	RP	Elma Street Park Multi-Use Court - Parks Renewal Plan	150,000	Replace court which is at end of useful life, and maintain level of service as per the Parks Renewal Plan (CRCS-B017-2021)	PA
P22-165	RP	Valleyview Park Basketball Court, Multi-Use Court & Playground - Parks Renewal Plan	490,000	Replace court which is at end of useful life, and maintain level of service as per the Parks Renewal Plan (CRCS-B017-2021)	PA

2022 CAPITAL BUDGET
COMMUNITY, RECREATION AND CULTURE SERVICES (SCHEDULE L)

Project No.	Project Type	Project Name	Gross Cost	Details	Notes
P22-166	RP	Louis Avenue Park Basketball Court - Parks Renewal Plan	\$ 90,000	Replace court which is at end of useful life, and maintain level of service as per the Parks Renewal Plan (CRCS-B017-2021)	PA
P22-167	RP	St. Patrick's Park Multi-Use Court - Parks Renewal Plan	200,000	Replace court which is at end of useful life, and maintain level of service as per the Parks Renewal Plan (CRCS-B017-2021)	PA
P22-168	RP	Pic Leeson Park Ball Diamond	280,000	Replace ball diamond assets which are at end of useful life, and address asset deficiencies to maintain level of service (CRCS-B010-2020)	
Subtotal			\$ 3,021,000		
			\$ 4,077,000		
Less:					
	PA	Parks Renewal Plan Projects	\$ 1,500,000	Council approval (CRCS-B017-2021)	
Total budget requiring Council Approval			\$ 2,577,000		

Notes:

PA- Previously approved by Council in 2021

CP - Co-ordinated projects involving more than one asset group (see Schedule S)

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Buildings and Facilities (including accessibility)

(Schedules M, N, O)

The City of St. Catharines is committed to providing safe and accessible Buildings and Facilities for all citizens and staff. The focus is to maintain life safety elements, barrier free accessibility, building envelope and interior conditions for all user groups.

Provided by:

174 Buildings and facilities spread across 73 properties

Value and Condition

Estimated total replacement value of City owned buildings and facilities: \$535 million

Current Backlog of work : \$55.5 million

The Arena Strategy was updated in 2019 and highlighted the need to right size the City's arenas (excluding Meridian Centre), to ensure that current levels of service can be delivered at an optimal cost. The 2017 Fire Master Plan confirmed the need for asset renewal at Firehalls, with priority given to renovations at Fire Hall 1, which would allow for the relocation of one of the Aerial Firetrucks. A 2020 Feasibility Study, to determine future needs and capital cost estimates for Fire Hall asset renewal, identified the need to replace three Fire Halls (1, 2, 3) and upgrade Fire Hall 6. These Fire Halls are nearing their end of life and they do not meet operational needs (including Accessibility).

Recent condition assessments and regulatory requirements were also considered in determining the Facilities Capital Budget. The assets included within this section of the capital budget will be addressed within the AMP for non-core assets scheduled for completion prior to July 1, 2024, in compliance with O. Reg.588/17.

Current Strategy

Renewal and Replacement

The City maintains many buildings differentiated by factors such as usage, (i.e. arenas, fire halls, operations work centres), or third party designation (i.e. Historical buildings). Various components within buildings also receive attention (i.e. roofs, washrooms) as well as overall standards for buildings (i.e. accessibility).

The City undertakes several ongoing key initiatives and programs to maintain and improve City owned facility assets such as structures, buildings and related land improvements.

There are numerous smaller projects which include the renewal and replacement of structural, architectural, mechanical, and electrical components of various City buildings that have reached the end of their service life. These projects are funded from the related reserve.

Heritage Assets : The Old Court House, Montebello Park Pavilion and Band Shell, City Hall, the Morningstar Mill, Dalhousie House, and the Old Robertson School at 85 Church Street are examples of City owned buildings which are classified as Heritage Buildings.

Due to the age of the heritage buildings, many of the architectural, structural, mechanical, and electrical components of these structures have well exceeded their useful service life and require regular maintenance and rehabilitation to preserve the integrity of these buildings. There are some components within these structures that do not meet current codes and safety regulations and require retrofits to remain in operation.

Accessibility: The City is striving to meet the provincially mandated accessibility standards by the 2025 target as set out by the Accessibility for Ontarians with Disability Act (AODA). To rectify the estimated \$5.750 million in non-compliant items, the City continues to complete accessibility upgrades, including barrier free washrooms and elevators. The 2022 Capital budget for accessibility of \$250,000 provides for upgrades to the washrooms in Buchanan House. It should be noted that the elevator at Buchanan House, as well as the Church Street elevator at City Hall will also be modernized as part of 2022 capital.

Based on 2023-2026 forecast budget levels (with an annual minimum of \$250,000), the highest priority items will be completed, however some portion of the lower priority items will remain unaddressed, at the target date.

Non-infrastructure Solutions: The Master Plan for Sunset Beach was also developed in 2019, and the 2022 Capital budget incorporates repairs to the existing boat ramp. Many elements in the plan have been included in future years, either in the 2023-2026 forecast or included in Schedule V - Other potential Capital Projects – 2027 and Beyond.

Highlights

- The 2022 budget and future year forecasts include \$27.2 million for Fire Hall renewal and upgrades
- Funds for elevator and accessible washroom upgrades at Buchanan House
- Funding for exterior cladding and insulation at the Bill Burgoyne Memorial Arena
- Parking lot and tennis court resurfacing at Port Weller Community Centre
- Additional funding towards the dam replacement and accessible upgrades at Morningstar Mill

2022 CAPITAL BUDGET
BUILDINGS AND FACILITIES (SCHEDULE M)

Project No.	Project Type	Project Name	Gross Cost	Details
Previously Budgeted Projects- Additional Budget Requirements				
P18-144	E	Buchanan House - Security Implementation	\$ 50,000	Security upgrades (Phase 2)
P18-177	RP	Morningstar Mill - Dam Replacement	1,000,000	Additional funds towards dam replacement project
P19-166	RP	Bill Burgoyne Arena - Upgrade Life Safety Systems	50,000	Additional funds towards fire alarm panel and replacement of associated devices
P20-145	RP	Seymour Hannah - LED lighting	138,000	Funds replenishment for lighting project
P21-136	RP	Haig Bowl Arena - Roof Replacement	40,000	Additional funds to cover shortfall of lower roof replacement
Subtotal			\$ 1,278,000	
New Projects				
Administrative and Operational Centres				
P22-133	RP	City Hall - Church St. Elevator Modifications	\$ 200,000	Upgrade and modernize existing elevator
P22-134	RN	City Hall - Improvements	50,000	Upgrade Building Automation System control system (phase 3); replacement of drinking fountains with water bottle filling stations
P22-136	RP	Lake Street Service Centre - Site Paving	250,000	Resurface site paving, driveway and parking stalls along the north side of the facility

2022 CAPITAL BUDGET
BUILDINGS AND FACILITIES (SCHEDULE M)

Project No.	Project Type	Project Name	Gross Cost	Details
P22-137	E	Buchanan House - Accessible Washroom Upgrade	\$ 250,000	Renovate washroom and implement accessibility features
P22-137-1	E	Buchanan House - Elevator Upgrade	500,000	Upgrade/modernize existing elevator to meet current codes and accessibility requirements
P22-138	RP	Old Court House - Phase 1 Window Refurbishment	200,000	Replace windows adjacent to fire escape to meet code and refurbishment of all 1st and 2nd floor windows
P22-171	RP	City Hall - Front Steps Replacements	60,000	Repair and replace damaged concrete steps at front entrance to maintain safe access
Administrative and Operational Centres			\$ 1,510,000	
PRCS - Arenas and Recreation Facilities				
P22-139	RN	Bill Burgoyne Arena - Exterior Cladding	\$ 400,000	Installation of exterior cladding and insulation on perimeter walls to improve energy efficiency and to protect exterior block walls
P22-140	RP	Merritton Arena - Capital Equipment Repairs	50,000	Replace boiler, and compressor motors (x 2) which are at the end of serviceable life
P22-142	RP	Seymour Hannah - Capital Equipment Repairs	65,000	Replace brine pump motors (x 4) which are at end of serviceable life
P22-143	RN	Lester B. Pearson Park - KAC Pool Repairs and Lighting	60,000	Repair and regrout stains in leisure pool; replace exterior parking lot lighting fixtures with LEDs

2022 CAPITAL BUDGET
BUILDINGS AND FACILITIES (SCHEDULE M)

Project No.	Project Type	Project Name	Gross Cost	Details
P22-145	RN	Port Dalhousie Lions Park - Wading Pool Repairs	\$ 25,000	Sandblast and repaint wading pool to prolong service life
P22-151	RN	Port Weller Community Centre - Site Improvements	690,000	Reconstruct north parking lot, resurface south parking lot, tennis courts, and replace exterior lighting
PRCS - Arenas and Recreation Facilities			\$ 1,290,000	
PRCS - Parks Structures and Facilities				
P22-146	RP	Lakeside Park - Grinder Sump Pumps & Controls	\$ 50,000	Replacement of grinder sump pumps in pit adjacent to washroom building to reduce ongoing maintenance issues
P22-147	E	Lakeside Park - East & West Pier Improvements	345,000	Light bollards and timber boat fenders for the west pier and twelve concrete benches for the east pier
P22-148	RP	Berkley Park - Replace Tennis Court Lighting	90,000	Replace existing tennis courts light fixtures with LEDs to reduce utility and maintenance costs
P22-149	RN	Lancaster Park - Bleacher Waterproofing	100,000	Waterproofing of bleachers above diamond 1 washroom
P22-150	RN	Sunset Beach - Boat Ramp Capital Repairs	100,000	Complete necessary capital repairs to prolong the service life of concrete boat ramp
PRCS - Parks Structures and Facilities			\$ 685,000	

Project Type: RP = Replacement, RN = Renewal, E = Expansion,
NI = Non-Infrastructure Solutions, M = Maintenance, D = Disposal

2022 CAPITAL BUDGET
BUILDINGS AND FACILITIES (SCHEDULE M)

Project No.	Project Type	Project Name	Gross Cost	Details
Other Special Purpose Facilities				
P22-152	RN	Rear Inner Range Lighthouse - Building Envelope Improvements	\$ 50,000	Replace upper windows, paint sills, heads & gables
P22-153	E	Lakeside Park - Carousel Accessibility	100,000	Implement barrier free access to Carousel
P22-154	RN	Morningstar Mill - Structural Repairs	130,000	Waterproofing and structural repairs to Miller's House; structural masonry repairs to Regional Barn
P22-155	RP	Morningstar Mill - Replace Roofing	120,000	Replacement of cedar shingles on roof of Sawmill and Miller's house buildings
P22-156	RN	Performing Arts Centre - Exterior Wall Cladding	75,000	Capital repairs to wall cladding, horizontal bands and parapet flashing to mitigate water infiltration concerns
P22-157	RP	Meridian Centre - Replace Board Glass	110,000	Replacement of acrylic dasher board glass due to end of service life and to meet OHL standards
P22-158	RP	Meridian Centre - Light Replacements	95,000	Replacement of remaining fluorescent light fixtures with LEDs in corridor and concession areas to reduce utility and maintenance costs
P22-159	RP	Replacement of Security Cameras - Phase 1	100,000	Replacements due to end of serviceable life, and improvements in technology at various locations
P22-170	E	Lockhart Point Old Lock 1 - Event Power	100,000	Provide electrical event power, meter and site lighting for Old Lock 1 event stage
Other Special Purpose Facilities			\$ 880,000	
New Projects Subtotal			\$ 4,365,000	
			<u>\$ 5,643,000</u>	

Project Type: RP = Replacement, RN = Renewal, E = Expansion, NI = Non-Infrastructure Solutions, M = Maintenance, D = Disposal

2022 CAPITAL BUDGET
PARKING SERVICES (SCHEDULE N)

Project No.	Project Type	Project Name	Gross Cost	Details
New Projects				
P22-160	RN	Carlisle St. Parking Garage - Replace Entrance Gate	\$ 10,000	Replacement of one (1) entrance gate from the Garden Park side to facilitate larger vehicles
P22-161	RN	Ontario St. Parking Garage - Ceiling Testing Ports	50,000	Necessary upgrades to the the ceiling testing ports to facilitate biennial strand monitoring
			<u>\$ 60,000</u>	

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2022 CAPITAL BUDGET
FIRE SERVICES (SCHEDULE O)

Project No.	Project Type	Project Name	Gross Cost	Details
Previously Budgeted Projects - Additional Budget Requirements				
P22-173	RP	Firehall #2 - Linwell Rd Rebuild Fire Station	\$6,000,000	Design and construction of a replacement Firehall #2, which is past its expected useful life.
Subtotal			\$ 6,000,000	
New Projects				
PFR22-01	RN	Communication Towers Upgrade	\$ 80,000	Total cost for all five (5) links, ancillary equipment and installation for improved communication with our equipment
Subtotal			\$ 80,000	
			<u>\$6,080,000</u>	

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2022 CAPITAL BUDGET
FLEET (SCHEDULE P)

Project No.	Project Type	Project Name	Gross Cost	Details
New Projects				
PFL22-01	RP	Two (2) Single Axle Dump Trucks (Replacement)	\$ 640,000	Replacement of dump trucks with snow and ice equipment, used for Municipal Works road maintenance (summer) and winter control
			<u>\$ 640,000</u>	

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2022 CAPITAL BUDGET
CORPORATE INFRASTRUCTURE (SCHEDULE Q)

Project No.	Project Type	Project Name	Gross Cost	Details	Notes
Previously Budgeted Projects- Additional Budget Requirements					
PCI17-01	RP	Enterprise Resource Planning (ERP) System Implementation	\$ 1,580,000	Partial budget for implementation of an ERP system that will replace the City's existing financial systems and provide enhanced support for accounts receivable, accounts payable, procurement, commitments and project management	
PCI21-01	RP	Property Tax System Implementation	330,000	Additional budget for implementation of property tax software - CentralSquare and related modules for tax certificates, point-of-sale, and citizen engagement portal. Replaces the City's current systems which are past end of life and receiving very limited vendor support (FMS-122-2021)	PA
PCI21-10	RP	Asset Management - Phase 2- Implementation of AM Solutions	1,300,000	Replacement for Work Manager, GIS system and asset management software	
Subtotal			\$ 3,210,000		
New Projects					
PCI22-01	RP	New Switches at City Hall and Meridian Centre	\$ 110,000	Replace current switches which are at end of useful life	
PCI22-02	E	Excess Soil Management Software	40,000	Software licensing fees and set-up of system to track soil movement as required by Ont. Regulation 406/19	
Subtotal			\$ 150,000		
			\$ 3,360,000		
Less:					
	PA	Property Tax System Implementation	330,000	Council Approval FMS-122-2021	
Total budget requiring Council approval			\$ 3,030,000		

Notes:

PA- Previously approved by Council in 2021

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2022 CAPITAL BUDGET
TRANSIT COMMISSION SERVICES (SCHEDULE R)

Project					
Project No.	Type	Project Name	Gross Cost	Details	Notes
TCP22-001	RP	2022 Transit Funding	\$ 1,050,000	City's portion of Transit Commission 2022 Facility Budget	1
			<u>\$ 1,050,000</u>		

NOTE:

- 1 Budget established to provide the City's portion of funding for facility renewal. Upper levels of government provide the largest share of the required funding. Budget will be funded by debt serviced by the Transit Commission and a 10% revenue contribution from the Transit Commission.
Transit's governance is currently under review by Regional Municipalities, and a decision is expected in the first quarter of 2022.

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Co-ordinated Projects

Schedule S

For asset categories within the road allowance (roads, sidewalks, sewers, water mains), coordination with other construction activities is taken into consideration to take advantage of economies of scale and reduce the impact of construction on abutting property owners and the travelling public.

Determination of the final construction program for all the assets for a particular year is the result of an iterative effort by staff in reviewing all the asset categories. Schedule S reports on the new and continuing projects included within the 2022 Capital Budget. For each project in the schedule, each of the asset categories previously reported in Schedule B to J is shown.

2022 CAPITAL BUDGET
COORDINATED PROJECTS (SCHEDULE S)

PROJECT NO	SCH	DESCRIPTION	GROSS COST	COMMENTS
P18-062		Lake St. Road and Underground Improvements		
	B	Roads	972,700	Reconstruction of road, sidewalk and storm sewer; additional funds for replacement of C.I. watermain
	C	Sidewalks	180,250	
	D	Storm Sewer Collection System	171,900	
	G	Water Distribution System	998,756	
			\$ 2,323,606	
P22-001		Mitchell / Morgan / Richmond		
	D	Storm Sewer Collection System	116,300	Engineering services for new storm and sanitary sewer installations in conjunction with watermain replacement and road works
	E	Sanitary	50,000	
	G	Water Distribution System	100,650	
			\$ 266,950	
P22-061		James St. EA		
	B	Roads	290,200	EA for reconstruction of James St. and construction of a public multi-use space
	E	Sanitary	39,000	
	G	Water Distribution System	53,000	
	L	CRCS	266,000	
			\$ 648,200	
P22-062		Pinecrest Ave. Reconstruction		
	B	Roads	304,300	Roadway reconstruction and sidewalk replacement
	C	Sidewalks	58,100	
			\$ 362,400	
P22-063		Parnell Rd. Reconstruction		
	B	Roads	237,600	Design of future road reconstruction and culvert replacement; engineering services for abandonment of existing C.I. watermain
	G	Water Distribution System	148,500	
	H	Bridges and Major Culverts	831,600	
			\$ 1,217,700	

2022 CAPITAL BUDGET
COORDINATED PROJECTS (SCHEDULE S)

PROJECT NO	SCH	DESCRIPTION	GROSS COST	COMMENTS
P22-064		Blue Spruce / Huntingwood		
	B	Roads	338,700	Road resurfacing and replacement of existing C.I. watermain
	G	Water Distribution System	255,000	
			\$ 593,700	
P22-123		Rockwood Ave Culvert (C117M) Replacement & Road Resurfacing		
	B	Roads	96,100	Mill and resurface roadway in conjunction with culvert replacement
	H	Bridges and Major Culverts	455,000	
			\$ 551,100	
P22-130		Rosedale Creek / Secord Creek Environmental Assessment & Design		
	H	Bridges and Major Culverts	27,300	Engineering services to identify and replace culvert deficiencies
	J	Watercourses	50,600	
			\$ 77,900	
Total			\$ 6,041,556	

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CITY OF ST.CATHARINES
2023 CAPITAL FORECAST (SCHEDULE T)

DESCRIPTION	GROSS COSTS	CANADA COMMUNITY BUILDING FUND	OTHER EXTERNAL/ RESERVES	TAX/RATE PAYER	DEBT
ROADS					
First Street Louth Road Improvements	\$ 3,056,000	\$ -	\$ 3,056,000	\$ -	-
Moffatt St. Secondary Access	500,000			27,500	472,500
2023 Roads Priority Program	7,525,000	689,120	4,800	1,913,700	4,917,380
Street Lights	737,000	-	-	135,000	602,000
Traffic Signals Specific Locations	836,000	-	-	282,000	554,000
	<u>12,654,000</u>	<u>689,120</u>	<u>3,060,800</u>	<u>2,358,200</u>	<u>6,545,880</u>
SIDEWALKS, WALKWAYS AND MULTIUSE PATHS					
Active Transportation	1,098,400	210,000	175,700	39,000	673,700
Sidewalks and Walkways	994,000	-	10,700	495,300	488,000
	<u>2,092,400</u>	<u>210,000</u>	<u>186,400</u>	<u>534,300</u>	<u>1,161,700</u>
STORM SEWER - 2023 PRIORITIES	<u>2,275,168</u>	<u>806,000</u>	<u>694,400</u>	<u>42,000</u>	<u>732,768</u>
SANITARY SEWER - 2023 PRIORITIES	<u>5,087,133</u>	<u>1,000,000</u>	<u>-</u>	<u>2,761,703</u>	<u>1,325,430</u>
POLLUTION CONTROL - 2023 PRIORITIES	<u>1,000,000</u>		<u>-</u>	<u>1,000,000</u>	<u>-</u>
WATERMAINS - 2023 PRIORITIES	<u>8,240,225</u>	<u>1,352,000</u>	<u>469,200</u>	<u>4,953,688</u>	<u>1,465,337</u>
BRIDGES AND MAJOR CULVERTS					
Culvert Replacements	1,480,000	348,131	-	63,000	1,068,869
South Service Road Bridge Removal or replacement (B011S)	805,000	-	-	44,000	761,000
Parnell Road Reconstruction	255,000	-	-	14,000	241,000
	<u>2,540,000</u>	<u>348,131</u>	<u>-</u>	<u>121,000</u>	<u>2,070,869</u>
SHORELINE PROTECTION	<u>284,000</u>	<u>-</u>	<u>-</u>	<u>16,000</u>	<u>268,000</u>
WATERCOURSES					
Francis Creek	2,130,000	-	2,130,000	-	-
Martindale Pond Weir Replacement	4,000,000	-	-	220,000	3,780,000
Other Creek Renewal Projects	700,000	-	-	39,000	661,000
	<u>6,830,000</u>	<u>-</u>	<u>2,130,000</u>	<u>259,000</u>	<u>4,441,000</u>
REGIONAL					
Region RR87 Main St., Lock St. & Lakeport Rd.	7,551,200	\$ -	\$ 4,500	\$ 3,718,076	\$ 3,828,624
Region - Glendale Avenue RR89 Improvements	490,000	-	78,400	23,000	388,600
	<u>8,041,200</u>	<u>-</u>	<u>82,900</u>	<u>3,741,076</u>	<u>4,217,224</u>

CITY OF ST.CATHARINES
2023 CAPITAL FORECAST (SCHEDULE T)

DESCRIPTION	GROSS COSTS	CANADA COMMUNITY BUILDING FUND	OTHER EXTERNAL/ RESERVES	TAX/RATE PAYER	DEBT
COMMUNITY, RECREATION AND CULTURE SERVICES					
James Street Park	\$ 1,620,000	\$ -	\$ -	89,000	\$ 1,531,000
Parks Legacy Fund	250,000	-	125,000	125,000	-
Parks Renewal Plan	1,500,000	-	105,100	370,000	1,024,900
Tree Planting, Memorial Benches and Hanging Baskets	490,000	-	-	490,000	-
	3,860,000	-	230,100	1,074,000	2,555,900
BUILDINGS AND FACILITIES					
Administrative and Operational Facilities	870,000	-	100,000	42,000	728,000
Arenas and Recreational Facilities	2,850,000	-	375,000	138,000	2,337,000
Parks Structure and Facilities	1,540,000	-	360,000	65,000	1,115,000
Special Purpose Facilities	823,000	-	348,000	26,000	449,000
	6,083,000	-	1,183,000	271,000	4,629,000
FIRE SERVICE	7,600,000	-	900,000	369,000	6,331,000
FLEET	1,260,000	-	-	69,000	1,191,000
PARKING SERVICE	25,000	-	-	1,000	24,000
CORPORATE INFRASTRUCTURE					
Enterprise Resource Planning System Implementation	2,800,000	-	-	154,000	2,646,000
Backup Data Centre	2,000,000	-	-	110,000	1,890,000
Other Corporate Infrastructure	500,000	-	-	28,000	472,000
	5,300,000	-	-	292,000	5,008,000
TRANSIT COMMISSION SERVICES	1,050,000	-	-	105,000	945,000
TOTAL 2023 CAPITAL FORECAST	\$ 74,222,126	\$ 4,405,251	\$ 8,936,800	\$ 17,967,967	\$ 42,912,108

CITY OF ST.CATHARINES
2022 CAPITAL BUDGET AND FOUR YEAR FORECAST (SCHEDULE U)

	2022	2023	2024	2025	2026
CAPITAL EXPENDITURES					
Roads	9,727,100	12,654,000	10,771,951	8,595,001	9,147,000
Sidewalks, Walkways and Multi-Use Pathways	2,661,300	2,092,400	1,808,663	1,701,663	1,701,663
Storm Sewer Collection System (including Sewer Separation)	1,466,200	2,275,168	3,815,100	3,970,000	4,130,000
Sanitary Sewer Collection System	2,508,954	5,087,133	5,805,376	6,245,844	8,032,781
Pollution Control	200,000	1,000,000	1,000,000	1,000,000	1,000,000
Water Distribution System (Watermain)	5,525,906	8,240,225	13,760,749	12,629,964	16,904,363
Bridges and Major Culverts	2,102,800	2,540,000	1,300,000	-	-
Shoreline Protection	292,200	284,000	140,000	1,693,000	1,481,000
Watercourses	2,068,000	6,830,000	1,800,000	664,000	910,000
Regional Projects	4,330,000	8,041,200	1,862,000	7,492,000	-
Community, Recreation and Culture Services	4,077,000	3,860,000	7,270,000	3,255,000	7,125,000
Buildings and Facilities (including Accessibility)	5,643,000	6,083,000	9,745,000	7,930,000	8,080,000
Parking Services	60,000	25,000	1,050,000	-	60,000
Fire Services	6,080,000	7,600,000	8,186,000	8,000,000	1,797,000
Fleet	640,000	1,260,000	-	310,000	-
Corporate Infrastructure	3,360,000	5,300,000	2,920,000	2,000,000	2,000,000
Transit Commission	1,050,000	1,050,000	1,050,000	1,050,000	1,050,000
	\$ 51,792,460	\$ 74,222,126	\$ 72,284,839	\$ 66,536,472	\$ 63,418,807
SOURCES OF FINANCING					
Canada Community - Building Fund	9,043,422	4,405,251	4,405,251	4,405,251	4,405,251
Other External Funding (including Grants)	211,000	675,000	675,000	675,000	675,000
Reserve Funds (including D.C)	7,442,900	8,261,800	3,972,400	3,869,300	1,575,800
TOTAL GRANTS/ 3rd PARTY/ RESERVES	\$ 16,697,322	\$ 13,342,051	\$ 9,052,651	\$ 8,949,551	\$ 6,656,051
Infrastructure Levy	1,794,000	1,569,000	1,569,000	1,569,000	1,569,000
Tax Support	1,527,400	1,800,000	2,200,000	2,472,000	2,472,000
Water/Wastewater	6,081,332	8,584,119	8,205,747	8,728,981	8,739,462
Capital Out of Revenue (1)	2,255,130	6,014,848	7,749,189	8,904,913	10,484,195
TOTAL TAX/ RATE PAYER	\$ 11,657,862	\$ 17,967,967	\$ 19,723,936	\$ 21,674,894	\$ 23,264,657
DEBENTURE (2)	23,437,276	42,912,108	43,508,252	35,912,027	33,498,099
TOTAL	\$ 51,792,460	\$ 74,222,126	\$ 72,284,839	\$ 66,536,472	\$ 63,418,807

CITY OF ST.CATHARINES
2022 CAPITAL BUDGET AND FOUR YEAR FORECAST (SCHEDULE U)

	2022	2023	2024	2025	2026
Note (1)					
Capital out of Revenue Allocation					
Tax Supported	1,049,000	2,821,450	2,305,999	2,016,000	1,971,000
Water/Wastewater	1,101,130	3,088,398	5,338,190	6,783,913	8,408,195
Transit Commission	105,000	105,000	105,000	105,000	105,000
Total Capital out of Revenue	<u>\$ 2,255,130</u>	<u>\$ 6,014,848</u>	<u>\$ 7,749,189</u>	<u>\$ 8,904,913</u>	<u>\$ 10,484,195</u>
Note(2)					
Debenture Allocation					
Tax Supported	20,855,878	36,364,341	37,225,062	29,015,113	26,115,612
Water/Wastewater	1,636,398	5,602,767	5,338,190	5,951,914	6,437,487
Transit Commission	945,000	945,000	945,000	945,000	945,000
Total Debenture	<u>\$ 23,437,276</u>	<u>\$ 42,912,108</u>	<u>\$ 43,508,252</u>	<u>\$ 35,912,027</u>	<u>\$ 33,498,099</u>

OTHER POTENTIAL CAPITAL PROJECTS - 2027 and BEYOND
SCHEDULE V

The intent of the list below is to highlight projects that have been raised to Council or discussed by Council. As these projects have not been included in the forecast at this time they would be considered in years six through ten (2027- 2031). However, some of these items represent underfunding of current programs, and so if funding was available the expenditures could be accelerated. The costs provided are based on high level estimates. Costs are expected to change as the scope is refined and project planning proceeds. This list does not include the regular ongoing annual replacement of linear assets, buildings and facilities that are being accommodated in the annual Capital Budget. Also, sidewalks and Roads underfunding has not included on this list, as they are currently under review.

Project Type	Asset	Facility/location	Description	Estimated Cost (\$000)	Supporting reports plans/strategy	Estimated Year
E	Road/ Bridge	Chestnut St Extension	new roadway from Hastings St. to Brookdale Ave (scope subject to Class Environmental Assessment process)	694	Included in Transportation Master Plan and 2021 DC Study. EA ongoing	2030
E	Road/ Bridge	Ridley & Vansickle signals	New traffic signal	291	Included in the 2021 DC Study	2030-2036
E	Equipment	Various locations	Waterbottle filling stations	459	Included in the 2021 DC Study	2027-2029
E	Land Improvement	Parkland	Parkland Development near GO Station	306	Included in the 2021 DC Study	2027-2030
E	Land Improvement	Parkland & Amenities	Parkland Development/Amenities near Glendale & Welland Canal	306	Included in the 2021 DC Study	2027-2030
E	Land Improvement	Parkland	Parkland Development at former General Motors Site	510	Included in the 2021 DC Study	2031
R	Watercourses	Lock Wall Rehabilitation	Various lock wall locations identified as medium rating to be completed within 1-5 years	590	2018 Lock Wall Inspections	2027
R	Bridges	Bridges	Replacements -Costs over \$500k annual budget	6,500	2018 Bridge and Culvert Inspection	2027-2031
R	Watercourses	Dick's Creek(EB) and Beverly Hills Creek	Erosion control	990	2011 Inspection/2014 Priority Report	2027
R	Watercourses	Dick's Creek(MB), Beverly Hills Creek, beamer Creek, & City wide priority update	Erosion control	2,800	2011 Inspection/2014 Priority Report	2028-2031
R	Shoreline	Lakefront Park	Shoreline Protection construction costs	600	2020 Shoreline Priority Review	2027
E	Arena	Bill Burgoyne Arena	Twin Arena (option 1)	21,800	PRCS-124-2019 - Arena Strategy	2029
R	Heritage facility	Old Courthouse	Address Accessibility / Deficiencies	5,500	2019 Building Condition Assessment, AODA guidelines	2027
R	Park	Jaycee Park	New indoor equipment storage facility	1,000	Operational Needs	2027-2030
R	Facility	To be determined	Aquatics facilities	20,000	Aquatics Facility Strategy	2027
	Pool	Lincoln Park	Lincoln Park Outdoor Pool	4,000	Aquatics Facility Strategy	2027
SI	Park	Sunset Beach	Park Improvements phase 2 & 3	2,504	PRCS-149-2019	2027-2031
R	Playground Replacements - various locations		57 playground replacements as planned from 2020-29	6,925	PRCS-B002-2018 - Parks Renewal Plan & CRCS-B017-2021 (2021 Update)	2027-2031
R	Tennis Court Replacements - various locations		10 tennis court replacements as planned from 2020-29	180		
R	Basketball Courts		18 basketball court replace. as planned from 2020 -29	205		
SI	Park	To be determined	Skateboard Park (north of the QEW)	500	Recreation Facility & Programming Master Plan Recommendation #28 / Recreation Master Plan Advisory Committee's highest prioritized recommendation	2027-2030
R	Vehicles	Fire Fleet	Fire Supression Vehicles	6,959	Planned Replacement Schedule	2027-2030
R	Corporate Infrastructure	To be determined	Replacement of servers and equipment at data center	2,000		2027-2030
2027-2031 identified unfunded projects				\$ 85,619		

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2022 CAPITAL BUDGET
PROJECT FUNDING (SCHEDULE W)

Sch	Project No.	Facility/Project Name	Gross Cost	FUNDING SOURCES							Debenture	Notes
				GRANTS/DEV.CHRGS/RESERVES			RATE/TAX PAYER SUPPORT					
				Canada Community Building Fund	Other External Funding	Reserves & Dvlpmnt Chrg	Infrastruct. Levy	Tax Support	Water / Wastewater	Capital out of Revenue		
B	P18-062	Lake St. Road and Underground Improvements	972,700	876,500	-	-	-	96,200	-	-	-	
B	P19-066	Moffatt St. Secondary Access	1,000,000	-	-	-	-	-	-	50,000	950,000	
B	P21-097	Dunvegan Rd. Traffic Signal Replacement	151,700	106,014	-	-	-	45,686	-	-	-	
B	P22-061	James St. EA	290,200	-	-	-	-	290,200	-	-	-	
B	P22-062	Pincrest Ave. Reconstruction	304,300	272,651	-	-	-	31,649	-	-	-	
B	P22-063	Parnell Rd. Reconstruction	237,600	214,100	-	-	-	23,500	-	-	-	
B	P22-064	Blue Spruce / Huntingwood	338,700	301,500	-	-	-	37,200	-	-	-	
B	P22-065	Vansickle Rd. Resurfacing and Intersection Improvements	2,155,700	2,025,000	-	-	-	130,700	-	-	-	
B	P22-066	Bunting Rd. Visioning	126,400	-	-	-	-	126,400	-	-	-	
B	P22-070	Preliminary Design for Future Road Rehabilitation	35,400	-	-	-	-	35,400	-	-	-	
B	P22-080	2022 Road Resurfacing Program	3,573,300	-	-	-	-	183,065	-	170,000	3,220,235	
B	P22-097	Traffic Signals (including pedestrian crossings)	300,000	-	-	48,000	252,000	-	-	-	-	6
B	P22-098	Street Lights	100,000	-	-	-	-	100,000	-	-	-	
B	P22-099	CCTV Installation Within Road Right of Way	45,000	-	30,000	-	15,000	-	-	-	-	1, 4
B	P22-123	Rockwood Ave Culvert (C117M) Replacement & Road Resurfacing	96,100	-	-	-	-	-	-	5,000	91,100	
C	P18-062	Lake St. Road and Underground Improvements	180,250	-	-	28,800	9,200	142,250	-	-	-	6
C	P22-040	2022 Walkway Improvements	50,600	-	-	-	42,900	7,700	-	-	-	
C	P22-040-1	Concrete Sidewalk Replacement Program	151,950	-	-	-	-	151,950	-	-	-	
C	P22-041	New Sidewalk Installation Program	26,300	-	-	4,200	22,100	-	-	-	-	6
C	P22-042	Dorothy St. New Sidewalk	212,300	178,300	-	34,000	-	-	-	-	-	6
C	P22-062	Pincrest Ave. Reconstruction	58,100	-	-	-	-	58,100	-	-	-	
C	P22-068	City-Wide Trail Improvements	960,600	778,600	-	182,000	-	-	-	-	-	6
C	P22-069	Active Transportation Priorities	252,800	212,400	-	40,400	-	-	-	-	-	6
C	P22-169	Pathway-Hydro Corridor (P7) Between Rykert St. to Pelham Rd.	768,400	-	-	768,400	-	-	-	-	-	6
D	P17-067	St. Davids Rd. / Townline Rd. W	556,100	511,600	-	44,500	-	-	-	-	-	6
D	P18-062	Lake St. road and Underground Improvements	171,900	158,200	-	13,700	-	-	-	-	-	6
D	P22-001	Mitchell / Morgan / Richmond	116,300	107,000	-	9,300	-	-	-	-	-	6
D	P22-006	Catch Basins and Storm Service Installations	101,100	-	-	-	-	-	-	5,000	96,100	
D	P22-014	Storm Sewer CCTV Inspections	101,100	-	-	-	101,100	-	-	-	-	
D	P22-015	Design for Next Year's Projects	50,600	-	-	-	50,600	-	-	-	-	
D	P22-016	Storm Sewer Spot Repairs	252,800	-	-	-	-	-	-	13,000	239,800	
D	P22-020	Maplewood Dr.	116,300	-	-	9,300	-	-	-	5,000	102,000	6
E	P22-001	Mitchell / Morgan / Richmond	50,000	-	-	-	-	-	50,000	-	-	
E	P22-005	Sanitary Sewer Reaming and Lining	1,484,954	1,000,000	-	-	-	-	484,954	-	-	

2022 CAPITAL BUDGET
PROJECT FUNDING (SCHEDULE W)

Sch	Project No.	Facility/Project Name	Gross Cost	FUNDING SOURCES							Notes	
				GRANTS/DEV.CHRGS/RESERVES			RATE/TAX PAYER SUPPORT					
				Canada Community Building Fund	Other External Funding	Reserves & Dvlpmnt Chrg	Infrastruct. Levy	Tax Support	Water / Wastewater	Capital out of Revenue		Debenture
E	P22-010	Extraneous Flow Elimination	50,000	-	-	-	-	-	50,000	-	-	-
E	P22-011	Sanitary Sewer Spot Repair Program	500,000	-	-	-	-	-	500,000	-	-	-
E	P22-012	Sanitary Sewer Flushing & Reaming	25,000	-	-	-	-	-	25,000	-	-	-
E	P22-014	CCTV Sewer Inspections	300,000	-	-	-	-	-	300,000	-	-	-
E	P22-015	Design for Next Year's Projects	50,000	-	-	-	-	-	50,000	-	-	-
E	P22-019	Sewershed Analysis	10,000	-	-	-	-	-	10,000	-	-	-
E	P22-061	James St. EA	39,000	-	-	-	-	-	39,000	-	-	-
F	P22-021	Pollution Control Priority Program	200,000	-	-	-	-	-	200,000	-	-	-
G	P18-062	Lake St. Road and Underground Improvements	998,756	-	-	-	-	-	998,756	-	-	-
G	P20-102	Lakeshore Rd. at Welland Canal	245,000	-	-	-	-	-	245,000	-	-	-
G	P20-116	Stortz Hydrant Port Conversions	450,000	-	-	-	-	-	450,000	-	-	-
G	P21-003	Ontario St. (RR#42) Underground Improvements	2,700,000	1,352,000	-	-	-	-	39,772	457,930	850,298	-
G	P22-001	Mitchell / Morgan / Richmond	100,650	-	-	-	-	-	100,650	-	-	-
G	P22-061	James St. EA	53,000	-	-	-	-	-	53,000	-	-	-
G	P22-063	Parnell Rd. Reconstruction	148,500	-	-	-	-	-	148,500	-	-	-
G	P22-064	Blue Spruce / Huntingwood	255,000	-	-	-	-	-	255,000	-	-	-
G	P22-100	Keistan Dr.	475,000	-	-	-	-	-	475,000	-	-	-
G	P22-118	Valves, Hydrants & Services	50,000	-	-	-	-	-	50,000	-	-	-
G	P22-119	Design for Next Year's Projects	50,000	-	-	-	-	-	50,000	-	-	-
H	P22-063	Parnell Rd. Culverts Reconstruction	831,600	519,257	-	-	-	-	-	16,000	296,343	-
H	P22-121	Niagara St. / Walkers Creek Park Pedestrian Bridges	470,400	430,300	-	-	-	40,100	-	-	-	-
H	P22-122	Battersea / Bunting / Melody Trail Culvert Rehabilitation	318,500	-	-	-	-	-	-	16,000	302,500	-
H	P22-123	Rockwood Ave. Culvert (C117M) Replacement & Road Resurfacing	455,000	-	-	-	-	-	-	23,000	432,000	-
H	P22-130	Rosedale Creek / Secord Creek Environmental Assessment & Design	27,300	-	-	-	-	27,300	-	-	-	-
I	P22-132	2022 Shoreline Protection	245,700	-	-	-	-	-	-	12,000	233,700	-
I	P22-150-1	Sunset Beach	46,500	-	-	-	46,500	-	-	-	-	-
J	P17-129	Martindale Pond Weir Replacement	692,900	-	-	-	-	-	-	35,000	657,900	-
J	P21-129	Spring Garden Creek Construction	1,324,500	-	-	-	-	-	-	66,000	1,258,500	-
J	P22-130	Rosedale Creek / Secord Creek Environmental Assessment & Design	50,600	-	-	-	-	-	-	3,000	47,600	-
K	RN20-stp	St. Paul Street at CNR Bridge Replacement	275,000	-	-	-	-	-	275,000	-	-	-

2022 CAPITAL BUDGET
PROJECT FUNDING (SCHEDULE W)

Sch	Project No.	Facility/Project Name	Gross Cost	FUNDING SOURCES							Notes	
				GRANTS/DEV.CHRGS/RESERVES			RATE/TAX PAYER SUPPORT					
				Canada Community Building Fund	Other External Funding	Reserves & Dvlpmnt Chrg	Infrastruct. Levy	Tax Support	Water / Wastewater	Capital out of Revenue		Debenture
K	RNxx-ONT	Region - Ontario Street (RR42) Reconstruction	491,000	-	-	-	-	-	-	27,000	464,000	
K	RNxx-ONT	Region - Ontario Street (RR42) Reconstruction	233,000	-	-	37,300	-	-	-	11,000	184,700	6
K	RNxx-ONT	Region - Ontario Street (RR42) Reconstruction	670,000	-	-	-	-	-	-	37,000	633,000	
K	RNxx-ONT	Region - Ontario Street (RR42) Reconstruction	175,000	-	-	-	-	-	113,000	27,900	34,100	
K	RNxx-ONT	Region - Ontario Street (RR42) Reconstruction	2,486,000	-	-	-	-	-	1,118,700	615,300	752,000	
L	P21-156	Splashpad, Sun Shelter & Washroom	1,000,000	-	-	1,000,000	-	-	-	-	-	6
L	PRC21-04	Bogart St Park Basketball/Tennis/Pickleball Court & Playground	56,000	-	56,000	-	-	-	-	-	-	8
L	PRC22-01	Memorial Bench Program (Year 3 of 6)	80,000	-	-	-	80,000	-	-	-	-	
L	PRC22-02	Tree Planting Program	375,000	-	-	-	375,000	-	-	-	-	
L	PRC22-03	Environmentally Friendly Hanging Baskets (Year 1 of 3)	35,000	-	-	-	35,000	-	-	-	-	
L	PRC22-04	Parks Legacy Fund	250,000	-	125,000	-	125,000	-	-	-	-	4
L	PRC22-05	Restoration of William Hamilton Merritt Statue	135,000	-	-	-	135,000	-	-	-	-	
L	PRC22-06	Relocation of Private Watson Statue	100,000	-	-	-	100,000	-	-	-	-	
L	P22-061	James St. EA	266,000	-	-	-	-	-	-	13,000	253,000	
L	P22-162	Burgoyne Woods Playground - Parks Renewal Plan	450,000	-	-	31,500	-	-	-	21,000	397,500	6, PA
L	P22-163	Clifford's Creek Park Basketball Court - Parks Renewal Plan	120,000	-	-	8,400	-	-	-	6,000	105,600	6, PA
L	P22-164	Elma Street Park Multi-Use Court - Parks Renewal Plan	150,000	-	-	10,500	-	-	-	7,000	132,500	6, PA
L	P22-165	Valleyview Park Basketball Court, Multi-Use Court & Playground - Parks Renewal Plan	490,000	-	-	34,300	-	-	-	23,000	432,700	6, PA
L	P22-166	Louis Avenue Park Basketball Court - Parks Renewal Plan	90,000	-	-	6,300	-	-	-	4,000	79,700	6, PA
L	P22-167	St. Patrick's Park Multi-Use Court - Parks Renewal Plan	200,000	-	-	14,000	-	-	-	9,000	177,000	6, PA
L	P22-168	Pic Leeson Park Ball Diamond	280,000	-	-	-	-	-	-	14,000	266,000	
M	P18-144	Buchanan House - Security Implementation	50,000	-	-	50,000	-	-	-	-	-	5
M	P18-177	Morningstar Mill - Dam Replacement	1,000,000	-	-	-	-	-	-	50,000	950,000	
M	P19-166	Bill Burgoyne Arena - Upgrade Life Safety Systems	50,000	-	-	50,000	-	-	-	-	-	5
M	P20-145	Seymour Hannah - LED lighting	138,000	-	-	-	-	-	-	7,000	131,000	
M	P21-136	Haig Bowl Arena - Roof Replacement	40,000	-	-	40,000	-	-	-	-	-	5
M	P22-133	City Hall - Church St. Elevator Modifications	200,000	-	-	-	-	-	-	10,000	190,000	
M	P22-134	City Hall - Improvements	50,000	-	-	50,000	-	-	-	-	-	5, 6
M	P22-136	Lake Street Service Centre - Site Paving	250,000	-	-	-	-	-	-	13,000	237,000	
M	P22-137	Buchanan House - Accessible Washroom Upgrade	250,000	-	-	-	-	-	-	13,000	237,000	

2022 CAPITAL BUDGET
PROJECT FUNDING (SCHEDULE W)

Sch	Project No.	Facility/Project Name	Gross Cost	FUNDING SOURCES							Notes	
				GRANTS/DEV.CHRGS/RESERVES			RATE/TAX PAYER SUPPORT					
				Canada Community Building Fund	Other External Funding	Reserves & Dvlpmnt Chrg	Infrastruct. Levy	Tax Support	Water / Wastewater	Capital out of Revenue		Debenture
M	P22-137-1	Buchanan House - Elevator Upgrade	500,000	-	-	-	-	-	-	25,000	475,000	
M	P22-138	Old Court House - Phase 1 Window Refurbishment	200,000	-	-	-	-	-	-	10,000	190,000	
M	P22-139	Bill Burgoyne Arena - Exterior Cladding	400,000	-	-	-	-	-	-	20,000	380,000	
M	P22-140	Merritton Arena - Capital Equipment Repairs	50,000	-	-	50,000	-	-	-	-	-	5
M	P22-142	Seymour Hannah - Capital Equipment Repairs	65,000	-	-	65,000	-	-	-	-	-	5
M	P22-143	Lester B. Pearson Park - KAC Pool Repairs and Lighting	60,000	-	-	60,000	-	-	-	-	-	5,7
M	P22-145	Port Dalhousie Lions Park - Wading Pool Repairs	25,000	-	-	25,000	-	-	-	-	-	5
M	P22-151	Port Weller Community Centre - Site Improvements	690,000	-	-	-	37,600	-	-	38,000	614,400	
M	P22-146	Lakeside Park - Grinder Sump Pumps & Controls	50,000	-	-	50,000	-	-	-	-	-	5
M	P22-147	Lakeside Park - East & West Pier Improvements	345,000	-	-	-	42,000	-	-	15,000	288,000	
M	P22-148	Berkley Park - Replace Tennis Court Lighting	90,000	-	-	35,000	55,000	-	-	-	-	7
M	P22-149	Lancaster Park - Bleacher Waterproofing	100,000	-	-	-	-	-	-	5,000	95,000	5
M	P22-150	Sunset Beach - Boat Ramp Capital Repairs	100,000	-	-	-	100,000	-	-	-	-	
M	P22-152	Rear Inner Range Lighthouse - Building Envelope Improvements	50,000	-	-	50,000	-	-	-	-	-	5
M	P22-153	Lakeside Park - Carousel Accessibility	100,000	-	-	-	-	-	-	5,000	95,000	
M	P22-154	Morningstar Mill - Structural Repairs	130,000	-	-	-	130,000	-	-	-	-	
M	P22-155	Morningstar Mill - Replace Roofing	120,000	-	-	-	-	-	-	6,000	114,000	
M	P22-156	Performing Arts Centre - Exterior Wall Cladding	75,000	-	-	75,000	-	-	-	-	-	5
M	P22-157	Meridian Centre - Replace Board Glass	110,000	-	-	-	-	-	-	6,000	104,000	
M	P22-158	Meridian Centre - Light Replacements	95,000	-	-	95,000	-	-	-	-	-	3, 7
M	P22-159	Replacement of Security Cameras - Phase 1	100,000	-	-	-	-	-	-	5,000	95,000	
M	P22-170	Lockhart Point Old Lock 1 - Event Power	100,000	-	-	-	-	-	-	5,000	95,000	
M	P22-171	City Hall - Front Steps Replacements	60,000	-	-	60,000	-	-	-	-	-	5
N	P22-160	Carlisle St. Parking Garage - Replace Entrance Gate	10,000	-	-	10,000	-	-	-	-	-	5
N	P22-161	Ontario St. Parking Garage - Ceiling Testing Ports	50,000	-	-	50,000	-	-	-	-	-	5
O	P22-173	Firehall #2 - Linwell Rd Rebuild Fire Station	6,000,000	-	-	4,303,000	-	-	-	22,000	1,675,000	9
O	PFR22-01	Communication Towers Upgrade	80,000	-	-	-	-	-	-	4,000	76,000	
P	PFL22-01	Two (2) Single Axle Dump Trucks (Replacement)	640,000	-	-	-	-	-	-	32,000	608,000	

2022 CAPITAL BUDGET
PROJECT FUNDING (SCHEDULE W)

Sch	Project No.	Facility/Project Name	Gross Cost	FUNDING SOURCES							Notes	
				GRANTS/DEV.CHRGS/RESERVES			RATE/TAX PAYER SUPPORT					
				Canada Community Building Fund	Other External Funding	Reserves & Dvlpmnt Chrg	Infrastruct. Levy	Tax Support	Water / Wastewater	Capital out of Revenue		Debenture
Q	PCI17-01	Enterprise Resource Planning (ERP) System Implementation	1,580,000	-	-	-	-	-	-	79,000	1,501,000	
Q	PCI21-01	Property Tax System Implementation	330,000	-	-	-	-	-	-	17,000	313,000	PA
Q	PCI21-10	Asset Management - Phase 2- Implementation of AM Solutions	1,300,000	-	-	-	-	-	-	65,000	1,235,000	
Q	PCI22-01	New Switches at City Hall and Meridian Centre	110,000	-	-	-	-	-	-	6,000	104,000	
Q	PCI22-02	Excess Soil Management Software	40,000	-	-	-	40,000	-	-	-	-	
R	TCP22-001	2022 Transit Funding	1,050,000	-	-	-	-	-	-	105,000	945,000	
TOTAL			\$ 51,792,460	\$ 9,043,422	\$ 211,000	\$ 7,442,900	\$ 1,794,000	\$ 1,527,400	\$ 6,081,332	\$ 2,255,130	\$ 23,437,276	
Less Amounts Previously Approved by Council			\$ 1,830,000	\$ -	\$ -	\$ 105,000	\$ -	\$ -	\$ -	\$ 87,000	\$ 1,638,000	
Capital Budget Requiring Council Approval			\$ 49,962,460	\$ 9,043,422	\$ 211,000	\$ 7,337,900	\$ 1,794,000	\$ 1,527,400	\$ 6,081,332	\$ 2,168,130	\$ 21,799,276	

Notes:

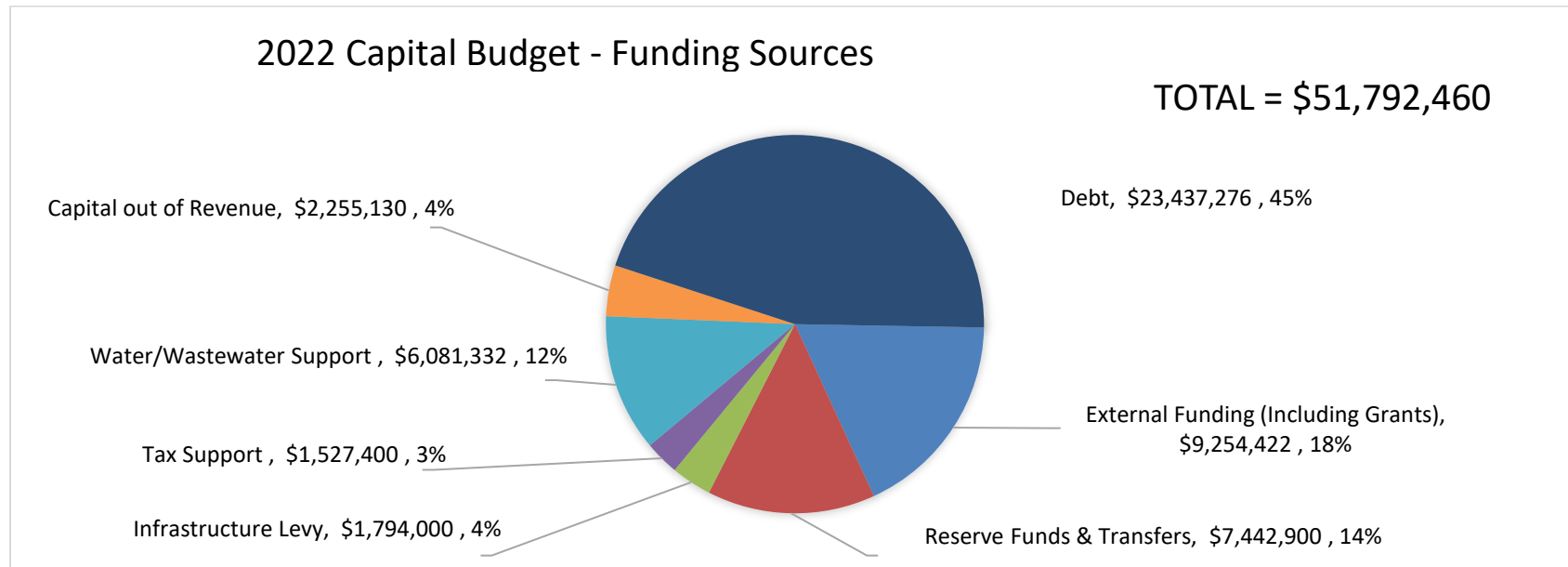
- 1 - Niagara Regional Police Service Funding
- 2 - Provincial Funding
- 3 - Meridian Reserve
- 4 - Donations
- 5 - Building Reserve

- 6 - Development Charges
- 7 - Green Initiatives Reserve
- 8 - Investing in Canada Infrastructure Program (ICIP)
- 9 - Transfer of surplus funding from prior year projects
- PA - Previously Approved by Council

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**Funding Our Capital Assets
Schedule X**

Seven different sources of funding for the 2022 capital Budget for the City of St. Catharines are shown below:



External Funding (Including Grants) - \$9,254,422

Canada Community-Building Fund (CCBF) (formally known as the Federal Gas Tax Program) provides \$9,043,422 which is the largest portion of external funding for capital projects. The City’s share of this program includes an additional 2021 one-time payment of \$4,058,439. This is in addition to scheduled annual payment of \$4,221,699 and \$763,284 of surplus funding from projects completed under budget. The CCBF grants fund various linear projects that are discussed in further detail in Schedule Y.

The Parks Legacy Fund projects rely upon donor contributions of \$125,000. Niagara Regional Police Service and the Region are also providing \$30,000 for CCTV cameras within the road right of way. An additional ICIP grant amount of \$56,000 for the Bogart Street Park is also included in this amount.

Infrastructure Levy - \$1,794,000

The Infrastructure Levy was established in 2016 to address the infrastructure deficit. The funds are being utilized to fund renewal. Any funds not allocated in the year will be maintained in a reserve

for use in future years for eligible projects. The annual funding has been set at 1.5% of the City’s portion of the prior year tax levy, providing \$1,569,000. For 2022, \$225,000 of available funding resulting from favorable variances in previous projects has been also been utilized. The projects funded by the 2022 infrastructure levy are shown in the graph below.

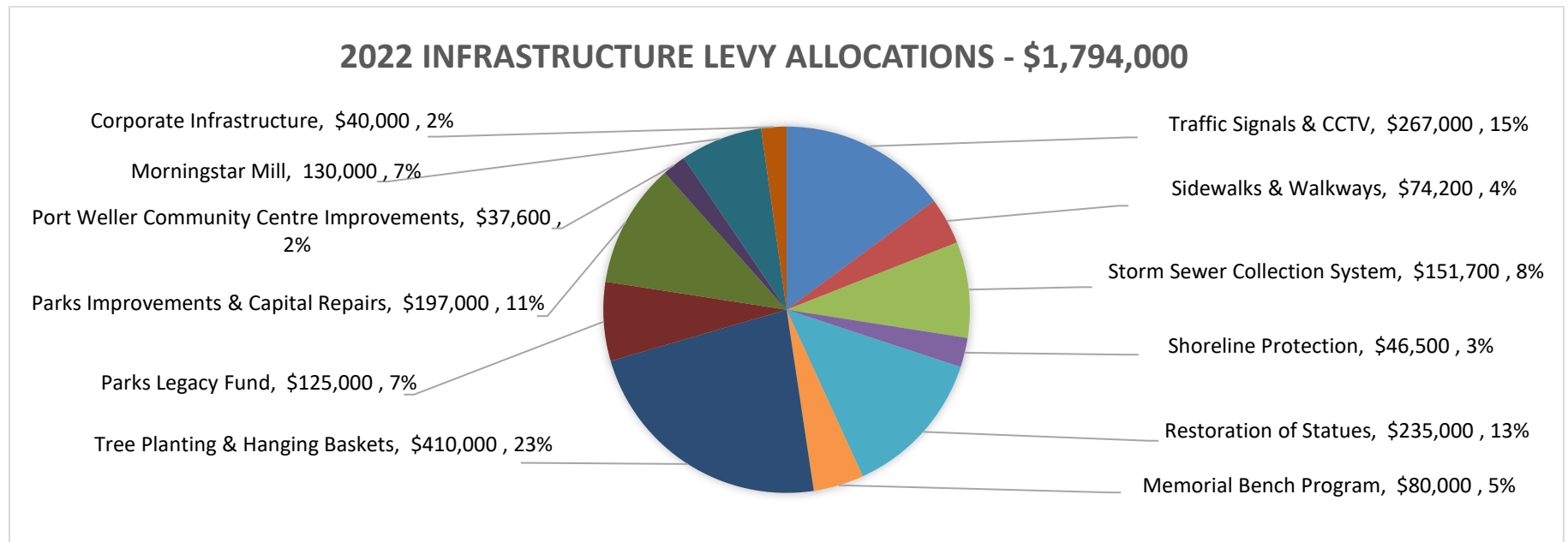
Reserves and Projects Transfers - \$7,442,900 (including Development Charges)

In 2021, the City reintroduced Development Charges to recover growth costs. The 2022 Budget includes \$4,326,700 of funding from this source. The Building Reserve Fund (\$650,000), Green Initiatives Reserve (\$103,200) and the Meridian Centre Capital Reserve (\$60,000) is providing a total of \$813,200 of funding for works

related to building and facilities infrastructure. Also, \$2,303,000 of funds have been transferred from previously approved projects.

Tax Support - \$1,527,400

Rehabilitation projects for roads, sidewalks, streetlights, bridges and major culverts, are included in the Capital Budget and funded from the Operating Budget. Recognizing the ongoing financial challenges facing the City as a result of COVID19, the annual funding from the Operating Budget is \$946,000 lower than in 2019 (pre COVID19). This reduction in operating support has been replaced with increased CCBF and debt.



Water/Wastewater (Rate) Support - \$6,081,332

In 2019 Council approved the 10-year Financial Plan for Water and Wastewater (Water/Wastewater Plan) that included a significant increase in capital renewal, funded from rates. The Water/Wastewater Plan includes annual increases of no more than 6.5% on a typical residential household bill. The Water/Wastewater Plan was guided by the following principles (FMS-057-2019):

- 1) to reduce existing funding gaps, and
- 2) moving towards a sustainable replacement level of capital spending year over year.

The capital spending and funding amounts from rates, capital out of revenue, and debt that were included in The Water/Wastewater Plan, have been adjusted in the 2022 budget in response to the financial and operational challenges facing the City caused by COVID19. The 2022 budget and 2023-2026 forecast reflect the reallocation of the investment in Water and Wastewater. Decreased spending in years 2021-2023 is offset by increases in spending in the years 2024 - 2026, resulting in the same net investment in infrastructure over the next 6 years. However, in the short term the spending deferrals will continue to contribute to the widening infrastructure gap.

Capital out of Revenue - \$2,255,130

Capital out of revenue is the portion of the project cost that is funded from the tax or rate budgets. This Council supported strategy, sets the contribution rate at 10% of the project costs funded from debt. The capital out of revenue contribution approximates one year's worth of debenture costs of the project.

For 2022 the capital out of revenue contribution percentage has been reduced to 5% to provide relief to the operating budget,

significantly impacted by COVID19. These funding reductions have been offset by higher Canada Community Building funding and debentures.

Where the City is issuing debt for water, wastewater or Transit Commission, a separate capital out of revenue payment is required from the respective area. The capital out of revenue contribution rates for Water and Wastewater set out in the Water/Wastewater Plan range from 40% to 60%, so as to manage debt levels while increasing investment in capital. For 2022, the capital out of revenue contribution percentage has been reduced to 35% (Water) and 40%(Wastewater) to provide relief to the 2022 Water/Wastewater budget, to assist with the recovery from the impacts of COVID19. These funding reductions have been offset by higher CCBF and debentures.

Debt - \$23,437,276

Debt is the most significant funding source for the annual Capital Budget and is utilized after all other funding has been applied. Debenture financing allows the City to spread the costs of capital over the term of debt, rather than requiring funding in the year of construction. Consistent with council approved debt strategy, debt terms for specific projects have been increased to 30 years. This change results in better alignment between debt repayment terms and expected asset life. Debt Management is necessary to ensure that the City maintains an appropriate debt level. The Council Approved Debt Management Strategy is outlined in schedule AB.

Debenture funding has been utilized to reduce tax and rate supported funding 2022, to respond to the current financial situation. However, at 45%, the debt funding percentage is still comparable to debt funding rates in prior years.

**Funding from Canada Community-Building Fund - \$9,043,422
Schedule Y**

The Canada Community-Building Fund (CCBF), formally known as the Federal Gas Tax Program (FGT) provides the largest ongoing external funding contribution for capital projects.

Council endorsed a five-year capital investment plan for FGT revenues in 2009 which identified continued funding for combined sewer system upgrades (storm sewer separations) and watermain replacement in conjunction with the combined sewer system upgrade and various road resurfacing projects. Council subsequently shifted focus away from underground infrastructure to include facility energy related initiatives and non-resurfacing roadwork. One of the requirements of the CCBF is that the expenditures are incremental, meaning that the funds cannot be used to displace current capital investment or reduce municipal taxes.

The City's \$9,043,422 of Gas Tax funding includes annual funding of \$4,221,699, an additional 2021 one-time payment of \$4,058,439

and \$763,284 of surplus funding from projects completed under budget. The additional funding has been utilized to reduce the 2022 taxpayer support.

Below is a list of the 2022 capital projects funded by FGT:

B	Road Construction	\$ 3,795,765
C	Multi-Use Pathways	991,000
C	New Sidewalks	178,300
D	Storm Sewer Collection	776,800
E	Sanitary Sewer Collection	1,000,000
G	Water Distribution	1,352,000
H	Bridges and Culverts	949,557
	TOTAL	\$9,043,422

Debt Management Strategy Schedule Z

The currently established Debt Management Strategy, with Council's ongoing support, has the following criteria:

- 1) **Eligibility:** Not all capital projects are suited for debt financing. The City's strategy is to recommend debt financing only for infrastructure purposes. Large projects that provide assets with well-defined benefits to the community, have long asset lives and the ability to leverage additional financing elsewhere are eligible for debt financing.
- 2) **Sustainable Level of Borrowing:** For debt management purposes, the City shall limit external debt charges to a maximum of 10% of the City's total own source revenues. This guideline ensures that the debt service costs are sustainable within the operating budget. It protects against debt servicing becoming an increasing burden and a larger portion of the City's budget.
- 3) **Capital Out of Revenue Contributions:**
Tax Supported Projects - The City requires a down payment equal to 10% of the tax supported capital costs eligible for debt financing. This down payment reduces the amount to be borrowed and matches the approximate costs of one year's debt service to the year in which project is approved. As a result, Council will raise, through property taxes, an amount which will be equivalent of at least one year's debt charges for each particular tax supported project.

Water / Wastewater Projects - The capital from revenue contributions for Water/Wastewater projects include increasing revenue percentages over the next ten (10) years.

Consistent with the Water / Wastewater Financial Plan, targets of at least 40/60 are intended to balance asset renewal and debt levels.

- 4) **Debenture Term considerations and Limitations:** Tax supported debentures may be issued for terms between 5 to 10 years. Debentures funding Water and Wastewater capital assets may be issued for terms up to 30 years. Debentures funding specific large projects, may in consultation with Council be issued for terms up to 30 years. Furthermore, debt terms will be for no more than 75% of the Asset's useful life and the selection of term will consider available interest rates.

The capital out of revenue contributions of 5% for tax supported projects included in the 2022 Capital Budget are outside of the current Debt Management Strategy's guidance. These reduced rates will provide temporary relief to the 2022 Operating Budget. The debt funded projects remain in compliance with criteria 1 listed above.

The debt charges for 2022 are forecast to increase marginally above 10% of the City's own source revenues. In compliance with criteria 2 of the Strategy, the future year forecasts outlined below indicate that the debt charge ratio will move above 10%. These forecasts will be updated and the debt servicing ratios will continue to be monitored and reviewed with Council on a regular basis.

Debt Management Strategy Schedule Z

The Municipal Act requires that a Municipality have a five-year capital financing forecast. Ontario Regulation 403/02 limits annual debt charges to no more than 25% of the City's own source revenues. Using this guideline, the City could increase its debt (approximately) by a further \$128.9 million based on an interest rate of 7%, which is the rate the Ministry of Municipal Affairs uses for illustrative purposes. (Calculation is provided on Schedule AA).
Using a lower estimated borrowing rate of 5%, the City's additional debt capacity would be \$144.1 million.

The City Treasurer has updated the Debt Repayment Limit for the City, and the debenture amount proposed in the 2022 Capital Budget will not cause the City to exceed its limit.

In 2020, the City's debt charges were 9.5% of the City's own source revenues. Each year, the Ministry of Municipal Affairs, produces a financial indicator review that states that debt costs between 5% and 10% are considered moderate risk – which is where the City of St Catharines currently resides. Table 1 below reports the estimated impact of increased borrowing activities for the next five years.

Table 1 below shows the total debt charges as a percentage of own source revenues exceeding the 10% upper limit in 2022. There are many assumptions to determine this percentage, including the amount of debt to be issued, timing of the debt issuances and total amount of expenditures. The assumptions made are conservative. The forecasts are also impacted by the reduction in own source revenues in 2020 as a result of COVID-19. This projection assumes that future debt is issued for a 10-year term with an interest rate of 4%, or a 30 year term with an interest rate of 5%. Debt terms are consistent with the Council Approved Capital Financing and Debt Management Strategy. The interest rate on recent debentures issues has been much lower (2021-1.78%, 2020 -1.57%). Any changes made to any of the assumptions – whether that is timing, term or interest rate for debt issuances, or the level of capital spending supported by debt, will have an impact on the debt charges as a percentage of own source revenues, the projected debt balance and future tax levy impacts.

As the City continues to refine its Asset Management Plan and formulate its future debt needs these forecasts will be updated and the debt servicing will continue to be monitored and reviewed on a regular basis, for compliance with Council set limits.

TABLE 1

	2021	2022	2023	2024	2025	2026
Outstanding Debt (external)	\$123.03m	\$127.0m	\$135.4m	\$152.4m	\$170.7m	\$188.5m
Outstanding debt (internal)	3.5m	2.8m	2.2m	1.5m	0.8m	-
Debt Per Household	2,055	2,121	2,261	2,545	2,850	3,148
Total Annual Debt Servicing	20.4m	21.7m	22.4m	24.3m	26.4m	28.6m
Debt Servicing as % of Own Source Revenues	9.69%	10.07%	10.16%	10.82%	11.51%	12.49%

2022 CAPITAL BUDGET -MUNICIPAL ACT DEBT LIMITS (SCHEDULE AA)

Calculation of Debt Charges:	(Per 2020 FIR schedule 81)		
Total Principal		\$	14,456,393
Total Interest			4,266,287
			<u>18,722,680</u>
Payments of Long Term Commitments and Liabilities (SLC42 6010 01)			1,569,866
NET DEBT CHARGES		A	<u><u>\$ 20,292,546</u></u>
Calculation of Annual Repayment Limit:			
Total Revenue Fund Revenue (sch10 9910)		\$	236,865,645
Excluded Revenue Amounts			
Tile Drainage and Shoreline Assistance (SLC 12 1850 04)			-
Ontario Grants - incl. Grants for TCAs (SLC 10 0699 01+SLC 10 0810 01+ SLC10 0815 01)			(10,195,281)
Canada Grants - incl. Grants for TCAs (SLC 10 0820 01+SLC 10 0825 01)			(1,478,023)
Deferred Revenue Earned (Provincial Gas Tax) (SLC 10 830 01)			(246,754)
Deferred Revenue Earned (Canada Gas Tax) (SLC 10 831 01)			(1,717,268)
Other Municipalities including revenue for TCA (SLC 10 1098 01+SLC 101099 01)			(7,538,147)
Gain/Loss on sale of land & capital assets (SLC 10 1811 01)			(11,225)
Deferred revenue earned (Development Charges) (SLC 10 1812 01)			-
Deferred revenue earned (Development Charges) (SLC 10 1812 01)			(1,790)
Deferred revenue earned (Recreation Land(the planning act) (SLC 10 1813 01)			(1,053)
Other Deferred revenue earned (SLC 10 1814 01)			(267,451)
Donated Tangible Capital Assets (SLC 53 0610 01)			(16,106,832)
Increase/Decrease in Gov't Business Enterprise equity (SLC 10 1905 01)			(2,189,138)
			<u>(39,752,962)</u>
NET REVENUE FUND REVENUES		\$	<u><u>197,112,683</u></u>
25% OF NET REVENUE FUND REVENUE		B	<u><u>\$ 49,278,171</u></u>
Adjustments to Annual Repayment Limit			
ANNUAL REPAYMENT LIMIT UNDER REGULATION		C (B - A)	<u><u>\$ 28,985,625</u></u>
Unfinanced prior year capital projects/unissued debt (details in AA-1)		\$	51,222,190
Capitalized Annual Repayment	Years	Rate	Factor
	<u>10</u>	<u>7.00%</u>	<u>0.1424</u>
		D	<u>(7,292,887)</u>
ADJUSTED ANNUAL REPAYMENT LIMIT		(C - D)	<u><u>\$ 21,692,738</u></u>
Remaining Debt Capacity			
Capitalized Debt Capacity			152,360,714
2022 Capital Budget			<u>(23,437,276)</u>
REMAINING DEBT CAPACITY			<u><u>128,923,438</u></u>

2022 CAPITAL BUDGET - SCHEDULE AA-1

MUNICIPAL ACT DEBT LIMITS

UNFINANCED PRIOR YEAR CAPITAL PROJECTS/UNISSUED DEBT
(INCLUDES 2021 CAPITAL PROJECTS)

	<u>Debt Amount</u>
Administration & Operational Centres	\$ 1,337,277
Arenas and Recreational Facilities	2,840,260
Bridges and Culverts	1,510,983
Canada Summer Games Commitment	1,164,800
Cemetery	62,000
Corporate Infrastructure	4,041,000
Fire	3,138,000
Other Special Purpose Facilities	3,536,000
Parking Operations	420,972
Parks, Structures and Facilities	2,236,700
Pollution Control Plan	2,255,438
Regional Projects	251,900
Roads	13,237,820
Sanitary Sewer Collection	726,420
Shoreline Protection	67,000
Sidewalks, Walkways & Multi Use Pathways	2,729,400
Sidewalks, Walkways and Multi-Use Pathways	1,333,000
Storm Sewer Collection (incl. Separation)	7,155,200
Water Distribution System	2,483,820
Watercourses	694,200
TOTAL	<u>\$ 51,222,190</u>

Capital Budget and Debt – Municipal Comparators Schedule AB

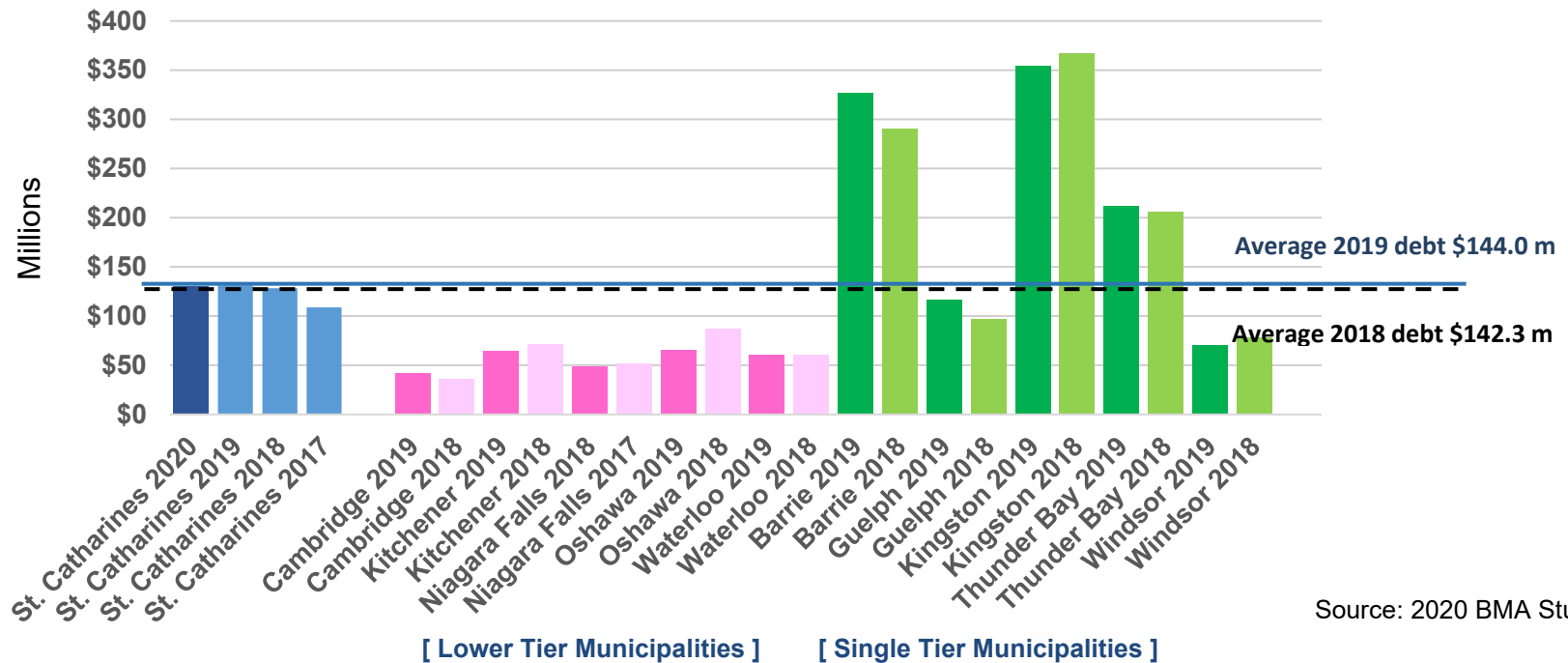
Unlike Federal and Provincial budgets, municipal budgets are very capital intensive. Borrowing for capital projects provides many economic benefits for the future of the municipality, especially so, as choosing to be debt-free would result in substantially less infrastructure being renewed and available to the public. City Council has identified five single-tier and five lower-tier municipalities with similar characteristics to the City of St. Catharines, which are shown in Graph 1 below.

Table 2 below shows the City of St. Catharines debt burden for the last four years (including internal debt).

TABLE 2

City of St. Catharines Outstanding Debt (\$Millions)	
2017	\$108.9
2018	\$128.5
2019	\$131.1
2020	\$130.1

Graph 1. Debt levels: Comparator Municipalities



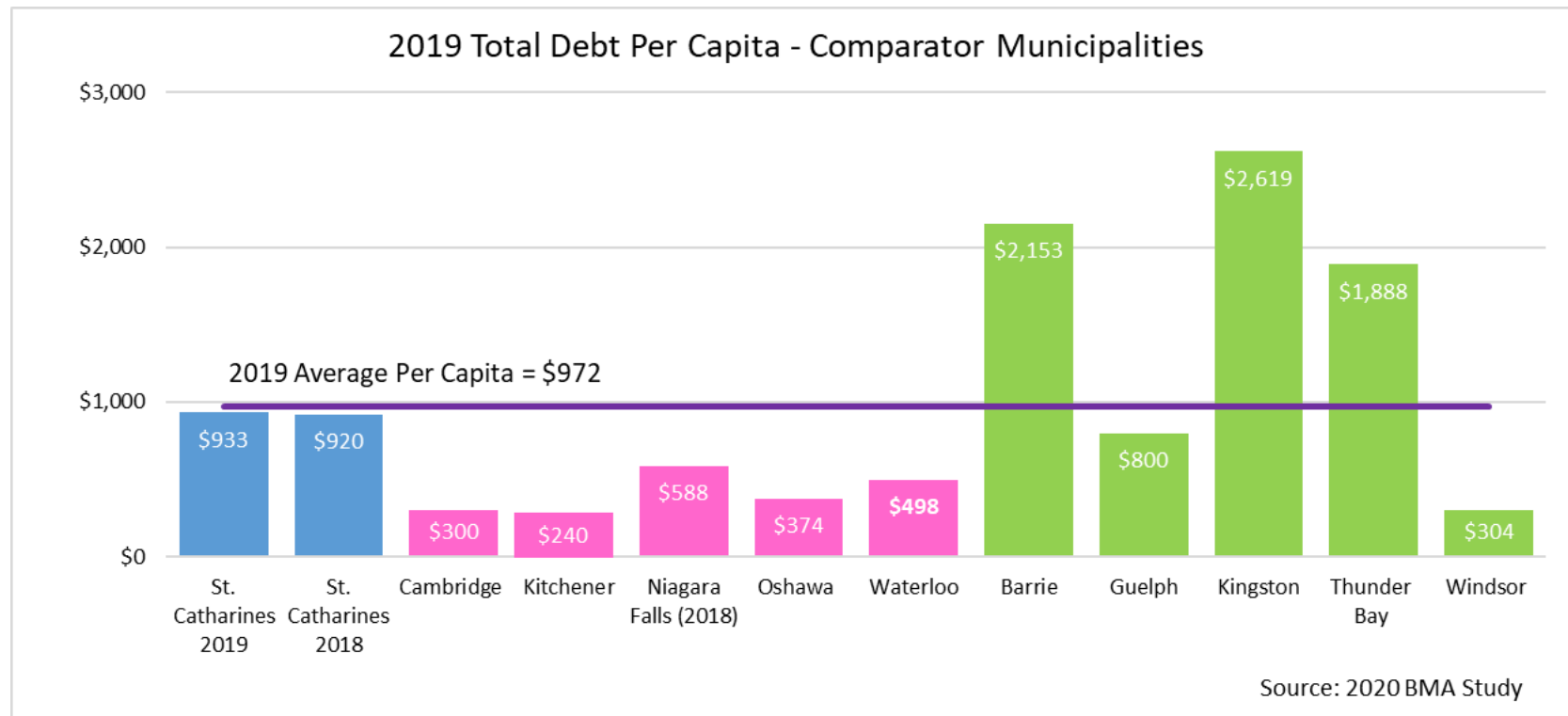
Source: 2020 BMA Study

**Capital Budget and Debt – Municipal Comparators
Schedule AB (continued)**

Debt per capita is another common debt ratio. The latest data available from the 2020 BMA Study based on 2019 FIR data is shown in the Graph 2 below. The City of St. Catharines total debt outstanding per capita for 2019 was \$933, which is above the average for all reporting municipalities in the BMA study. The 2019 average for municipalities in the 2020 BMA Study was \$732. Looking amongst our ten comparators the data is a bit different. The eleven comparator municipalities’ average for 2019 was \$972.

St. Catharines outstanding debt per capita of \$933 for 2019 (\$920– 2018) is below the average for the Council approved municipal comparators. While St. Catharines’ debt is at the higher end of the comparators, it is still at a reasonable level in comparison to other municipalities, particularly older cities with similar aged infrastructure.

Graph 2.



2022 CAPITAL BUDGET
 REPRIORITIZED PRIOR FOUR YEAR FORECASTS (SCHEDULE AC)

This summary of capital expenditures compares the projected four year forecast (2022-2025) included in the 2021 Capital Budget with the 2022 capital budget and forecast for the same forecast time period.

CAPITAL EXPENDITURES	2022			2023			2024			2025		
	2021 Forecast	2022 Forecast	Variance \$	2021 Forecast	2023 Forecast	Variance \$	2021 Forecast	2024 Forecast	Variance \$	2021 Forecast	2025 Forecast	Variance \$
Roads	7,941,000	9,727,100	1,786,100	11,581,000	12,654,000	1,073,000	7,601,951	10,771,951	3,170,000	8,470,001	8,595,001	125,000
Sidewalks, Walkways and Multi-Use Pathways	2,274,200	2,661,300	387,100	960,000	2,092,400	1,132,400	960,000	1,808,663	848,663	960,000	1,701,663	741,663
Storm Sewer Collection System (Incl. Sewer Sep.)	4,610,800	1,466,200	(3,144,600)	2,375,168	2,275,168	(100,000)	3,815,100	3,815,100	-	3,970,000	3,970,000	-
Sanitary Sewer Collection System	3,903,954	2,508,954	(1,395,000)	3,694,133	5,087,133	1,393,000	6,473,376	5,805,376	(668,000)	7,346,844	6,245,844	(1,101,000)
Pollution Control	800,000	200,000	(600,000)	1,000,000	1,000,000	-	1,000,000	1,000,000	-	1,000,000	1,000,000	-
Water Distribution System (Watermains)	9,165,906	5,525,906	(3,640,000)	4,031,225	8,240,225	4,209,000	13,760,749	13,760,749	-	14,250,964	12,629,964	(1,621,000)
Bridges and Major Culverts	1,707,500	2,102,800	395,300	-	2,540,000	2,540,000	805,000	1,300,000	495,000	517,500	-	(517,500)
Shoreline Protection	11,000	292,200	281,200	489,000	284,000	(205,000)	3,224,000	140,000	(3,084,000)	41,000	1,693,000	1,652,000
Watercourses	1,430,000	2,068,000	638,000	6,730,000	6,830,000	100,000	1,800,000	1,800,000	-	580,000	664,000	84,000
Regional Projects	3,498,000	4,330,000	832,000	10,466,000	8,041,200	(2,424,800)	-	1,862,000	1,862,000	1,962,000	7,492,000	5,530,000
Community Recreation and Culture Services	2,195,000	4,077,000	1,882,000	1,545,000	3,860,000	2,315,000	1,115,000	7,270,000	6,155,000	965,000	3,255,000	2,290,000
Buildings and Facilities (Including Accessibility)	4,060,000	5,643,000	1,583,000	8,410,000	6,083,000	(2,327,000)	7,075,000	9,745,000	2,670,000	5,116,019	7,930,000	2,813,981
Parking Services	55,000	60,000	5,000	200,000	25,000	(175,000)	850,000	1,050,000	200,000	-	-	-
Fire Services	6,500,000	6,080,000	(420,000)	7,720,000	7,600,000	(120,000)	7,292,727	8,186,000	893,273	9,125,509	8,000,000	(1,125,509)
Fleet	-	640,000	640,000	-	1,260,000	1,260,000	-	-	-	-	310,000	310,000
Corporate Infrastructure	5,300,000	3,360,000	(1,940,000)	4,300,000	5,300,000	1,000,000	-	2,920,000	2,920,000	-	2,000,000	2,000,000
Transit Commission	600,000	1,050,000	450,000	600,000	1,050,000	450,000	600,000	1,050,000	450,000	600,000	1,050,000	450,000
	<u>54,052,360</u>	<u>51,792,460</u>	<u>(2,259,900)</u>	<u>64,101,526</u>	<u>74,222,126</u>	<u>10,120,600</u>	<u>56,372,903</u>	<u>72,284,839</u>	<u>15,911,936</u>	<u>54,904,837</u>	<u>66,536,472</u>	<u>11,631,635</u>

Projects Added/Increased	Projects Added/Increased	Projects Added/Increased	Projects Added/Increased
Moffatt St. Secondary Access Added	1,000,000	Roads Increased	1,073,000
Roads Increased	786,100	Active Transportation Added	848,400
Sidewalks Increased	387,100	Sidewalks Prj. Increased	284,000
Sanitary Sewer Projects Increased	42,500	Facer Street Sanitary sewer Added	545,000
Bridges and Major Culverts Increased	395,300	Forest Hill / Hillcrest San. Sewer Added	892,500
Shoreline Protection Increased	281,200	Forest Hill / Hillcrest Water Dist. Added	348,000
Watercourses Increased	638,000	Merritt Street Water Distribution Added	714,000
Region - Ontario St. (RR42) Recons. Added	4,055,000	Water Distribution System Increased	3,147,000
Regional-St. Paul Street Added	275,000	South Service Road Bridge Added	805,000
Park Legacy Fund Increased	125,000	Bridges & Major Culverts Other Increased	1,735,000
Park Renewal Projects Increased	1,076,000	Watercourses Increased	100,000
CRCS Other Increased	681,000	Region RR87 Main St., Lock St. & Lakeport Rd. Added	7,551,200
Morningstar Mill- Dam Prj Added	1,000,000	Region - Glendale Ave. RR89 Improvements Added	490,000
Buildings and Facilities, Others Increased	583,000	James Street EA Added	1,620,000
Parking Services Increased	5,000	CRCS others Increased	695,000
Fleet Added	640,000	Fleet Added	1,260,000
Transit Commission Increased	450,000	Corporate Infrastructure Increased	1,000,000
	<u>\$ 12,420,200</u>	Transit Commission Increased	450,000
			<u>\$ 23,558,100</u>
			<u>\$ 20,826,936</u>
			<u>\$ 15,996,644</u>

Less: Projects Decreased/Deferred	Less: Projects Decreased/Deferred	Less: Projects Decreased/Deferred	Less: Projects Decreased/Deferred
Facer Street Sanitary Sewer Deferred	545,000	Storm Sewer Prj. Decreased	100,000
Forest Hill / Hillcrest Pipe Project Deferred	2,276,300	Sanitary Sewer Prj. Decreased	44,500
Gale Crescent Storm Sewer Deferred	901,850	Shoreline Protection Decreased	205,000
Other Storm Sewer Prj. Decreased	1,572,950	Region - St Paul St. W Recon. Deferred	2,365,000
Pollution Control Decreased	600,000	Region - Main St. Recon. Deferred	4,451,000
Water Distribution Prj. Decreased	2,926,000	Region - Ontario St. (RR42) Recons.	3,650,000
Regional - Burleigh Hill Dr. Deferred	1,380,000	Buildings and Facilities Decreased	2,327,000
Regional - Niagara Street Deferred	1,668,000	Parking Services Decreased	175,000
Regional - Glendale Avenue Deferred	450,000	Fire Services Decreased	120,000
Fire Services Decreased	420,000		
Corporate Software Deferrals	1,940,000		
	<u>\$ 14,680,100</u>		<u>\$ 13,437,500</u>
	<u>\$ (2,259,900)</u>		<u>\$ 10,120,600</u>
			<u>\$ 4,915,000</u>
			<u>\$ 15,911,936</u>
			<u>\$ 4,365,009</u>
			<u>\$ 11,631,635</u>

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2022 CAPITAL BUDGET SORTED BY WARD - LINEAR PROJECTS
(SCHEDULE AD)

Schedule	Project No.	Project Name / Location	Details	WARD
B	P21-097	Dunvegan Rd. Traffic Signal Replacement	Roadway reconfiguration in conjunction with previously approved traffic signal replacement	1
B	P19-066	Moffatt St. Secondary Access	Engineering services for detailed design phase to implement environmental assessment preferred alternative	1
B	P22-070	Preliminary Design for Future Road Rehabilitation	Geotechnical investigation and design for future roadworks	1
B	P22-123	Rockwood Ave Culvert (C117M) Replacement & Road Resurfacing	Mill and resurface roadway in conjunction with culvert replacement	1
C	P22-062	Pinecrest Ave. Reconstruction	Sidewalk replacement in conjunction with road reconstruction	1
D	P17-067	St. Davids Rd. / Townline Rd. W	Additional funds for City share of costs for the construction of new storm sewer	1
D	P22-001	Mitchell / Morgan / Richmond	Engineering services for new storm sewer installation in conjunction with watermain replacement and road works	1
E	P22-001	Mitchell / Morgan / Richmond	Engineering services for replacement of sanitary sewer in conjunction with watermain replacement and road works	1
G	P22-001	Mitchell / Morgan / Richmond	Design for the replacement of existing C.I. watermain in conjunction with stormsewer installation and road works	1
H	P22-122	Battersea / Bunting / Melody Trail Culvert Rehabilitation	Review the feasibility to line the structure versus replacement	1
H	P22-123	Rockwood Ave. Culvert (C117M) Replacement & Road Resurfacing	Replace existing structure in conjunction with roadworks	1
H	P22-130	Rosedale Creek / Secord Creek Environmental Assessment & Design	Engineering services for structure replacement in conjunction with Creek EA and Design	1
J	P22-130	Rosedale Creek / Secord Creek Environmental Assessment & Design	Engineering Services to address previously identified deficiencies and in conjunction with culvert replacement (C109M)	1
B	P22-065	Vansickle Rd. Resurfacing and Intersection Improvements	Full depth resurfacing with intersection improvements to promote traffic calming	2

2022 CAPITAL BUDGET SORTED BY WARD - LINEAR PROJECTS
(SCHEDULE AD)

Schedule	Project No.	Project Name / Location	Details	WARD
C	P22-169	Pathway-Hydro Corridor (P7) Between Rykert St. to Pelham Rd.	Trail development and the construction of a pedestrian pathway and access points to the neighbourhood. Located on Hydro Corridor between Rykert Street to Pelham Road	2
K	RN20-stp	St. Paul Street at CNR Bridge Replacement	Additional funds for replacement of existing C.I. watermain in conjunction with Regional bridge replacement project	2
B	P22-066	Bunting Rd. Visioning	Visioning and EA to implement complete street design	3
H	P22-121	Niagara St. / Walkers Creek Park Pedestrian Bridges	Replace existing structure	3
B	P18-062	Lake St. Road and Underground Improvements	Road reconstruction and rehabilitation	4
B	P22-061	James St. EA	EA for reconstruction of James St. and construction of a public multi-use space	4
B	P22-062	Pinecrest Ave. Reconstruction	Reconstruction of existing roadway	4
C	P18-062	Lake St. Road and Underground Improvements	Construct new sidewalk for system completion in conjunction with the road reconstruction	4
D	P18-062	Lake St. road and Underground Improvements	Construction of storm sewer in conjunction with underground improvements and road reconstruction	4
E	P22-061	James St. EA	EA for reconstruction of James St. and construction of a public multi-use space	4
G	P18-062	Lake St. Road and Underground Improvements	Construction funds for replacement of existing Cast Iron (C.I.) watermain in conjunction with road reconstruction	4
G	P21-003	Ontario St. (RR#42) Underground Improvements	Replacement of existing C.I. watermains in conjunction with sanitary and storm sewer spot repairs	4
G	P22-061	James St. EA	EA for reconstruction of James St. and construction of a public multi-use space	4

2022 CAPITAL BUDGET SORTED BY WARD - LINEAR PROJECTS
(SCHEDULE AD)

Schedule	Project No.	Project Name / Location	Details	WARD
L	P22-061	James St. EA	EA for construction of a public multi-use space in conjunction with reconstruction of James St.	4
B	P22-063	Parnell Rd. Reconstruction	Design for future road reconstruction	5
D	P22-020	Maplewood Dr.	Engineering services for design of a new storm sewer to alleviate surface flooding issues	5
G	P20-102	Lakeshore Rd. at Welland Canal	Additional funds to replace/upgrade existing watermain across Welland Canal on Seaway Bridge	5
G	P22-063	Parnell Rd. Reconstruction	Engineering services for abandonment of existing C.I. watermain in conjunction with sanitary and storm sewer works and road reconstruction	5
G	P22-100	Keistan Dr.	Replacement of existing C.I. watermain	5
H	P22-063	Parnell Rd. Culverts Reconstruction	Design for future culvert replacement	5
J	P21-129	Spring Garden Creek Construction	Construction to address priority items identified by EA	5
B	P22-064	Blue Spruce / Huntingwood	Replace asphalt road surface in conjunction with watermain replacement	6
C	P22-042	Dorothy St. New Sidewalk	New sidewalk to improve network connectivity	6
G	P22-064	Blue Spruce / Huntingwood	Replacement of existing C.I. watermain in conjunction with road reconstruction	6
J	P17-129	Martindale Pond Weir Replacement	Rebudget funds reallocated in 2021. For replacement weir to address identified deficiencies in weir controlling water level in Martindale Pond and in conjunction with Heywood Generating Station improvements	6
K	RNxx-ONT	Region - Ontario Street (RR42) Reconstruction	Replace deteriorated sidewalks in conjunction with Region's road urbanization	6
K	RNxx-ONT	Region - Ontario Street (RR42) Reconstruction	Construct new sidewalk for system completion in conjunction with the Region's road reconstruction	6

2022 CAPITAL BUDGET SORTED BY WARD - LINEAR PROJECTS
(SCHEDULE AD)

Schedule	Project No.	Project Name / Location	Details	WARD
K	RNxx-ONT	Region - Ontario Street (RR42) Reconstruction	Rehabilitate existing storm sewers in conjunction with Region's road urbanization	6
K	RNxx-ONT	Region - Ontario Street (RR42) Reconstruction	City's share of new storm sewers in conjunction with Region's road urbanization	6
K	RNxx-ONT	Region - Ontario Street (RR42) Reconstruction	Capital repairs to existing sewers in conjunction with Region's roadworks	6
K	RNxx-ONT	Region - Ontario Street (RR42) Reconstruction	Replace C.I. watermain in conjunction with Region's roadworks	6
B	P22-080	2022 Road Resurfacing Program	Annual - priority location(s) to be determined	City wide
B	P22-097	Traffic Signals (including pedestrian crossings)	Annual - priority location(s) to be determined	City wide
B	P22-098	Street Lights	Address various identified deficiencies in existing City street light system	City wide
B	P22-099	CCTV Installation Within Road Right of Way	Project to add 12 new cameras at 6 locations in the City to be utilized by the NRPS to enhance safety. Funded by the City, Province and NRPS	City wide
C	P22-040	2022 Walkway Improvements	Annual walkway capital repair program locations to be determined	City wide
C	P22-040-1	Concrete Sidewalk Replacement Program	Replace existing sidewalks with identified deficiencies. Locations to be determined	City wide
C	P22-041	New Sidewalk Installation Program	Annual - priority location(s) to be determined	City wide
C	P22-068	City-Wide Trail Improvements	Participark Trail Connection (Switchback), Welland Canal Trail - Widen & Resurface (Final Improvement), +\$150K AT priorities as a result of Covid-19 (CAO-181-2020); Additional funding for 2021 Active Transportation priorities that became more urgent as a result of Covid-19 (CAO-181-2020) & (EFES-070-2021)	City wide
C	P22-069	Active Transportation Priorities	Annual - priority location(s) to be determined	City wide

2022 CAPITAL BUDGET SORTED BY WARD - LINEAR PROJECTS
(SCHEDULE AD)

Schedule	Project No.	Project Name / Location	Details	WARD
D	P22-006	Catch Basins and Storm Service Installations	Installation of catch basins, catch basin leads and storm laterals to alleviate isolated surface flooding	City wide
D	P22-014	Storm Sewer CCTV Inspections	CCTV sewer inspections for condition assessment of existing storm sewers including large diameter pipes	City wide
D	P22-015	Design for Next Year's Projects	Engineering services for future storm drainage system projects as required	City wide
D	P22-016	Storm Sewer Spot Repairs	Spot repairs of storm sewers at various locations as necessary	City wide
E	P22-005	Sanitary Sewer Reaming and Lining	Sewer lining to address identified deficiencies	City wide
E	P22-010	Extraneous Flow Elimination	Study to determine sources of inflow and infiltration into sanitary sewer system	City wide
E	P22-011	Sanitary Sewer Spot Repair Program	Spot repairs for sanitary sewers as required	City wide
E	P22-012	Sanitary Sewer Flushing & Reaming	Sewer flushing and reaming for physical cleaning of selected sewer sections with operational issues	City wide
E	P22-014	CCTV Sewer Inspections	CCTV inspections of existing sewers to identify condition and future works	City wide
E	P22-015	Design for Next Year's Projects	Engineering services for future sanitary collection system projects as required	City wide
E	P22-019	Sewershed Analysis	Engineering services for sewershed capacity analysis as required	City wide
G	P20-116	Stortz Hydrant Port Conversions	Year 3 of 4-year plan for the highest priority conversion of existing hydrants to Stortz type pumper connections	City wide
G	P22-118	Valves, Hydrants & Services	Replacement of existing valves, hydrants and services in conjunction with other works	City wide
G	P22-119	Design for Next Year's Projects	Engineering services for future waterworks projects as required	City wide

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2022 CAPITAL BUDGET SORTED BY WARD - FACILITIES PROJECTS
(SCHEDULE AE)

Schedule	Project No.	Project Name / Location	Details	WARD
L	P22-163	Clifford's Creek Park Basketball Court - Parks Renewal Plan	Replace court which is at end of useful life, and maintain level of service as per the Parks Renewal Plan (CRCS-042-2021)	1
L	P22-165	Valleyview Park Basketball Court, Multi-Use Court & Playground - Parks Renewal Plan	Replace court which is at end of useful life, and maintain level of service as per the Parks Renewal Plan (CRCS-042-2021)	1
L	P22-168	Pic Leeson Park Ball Diamond	Replace ball diamond assets which are at end of useful life & address asset deficiencies to maintain level of service (CRCS-B010-2020)	1
M	P22-140	Merritton Arena - Capital Equipment Repairs	Replace boiler, and compressor motors (x 2) which are at the end of serviceable life	1
L	P22-162	Burgoyne Woods Playground - Parks Renewal Plan	Replace playground, and add accessible pathway to multi-use courts, curb faced sidewalk in parking lot and sun shelter	2
M	P18-177	Morningstar Mill - Dam Replacement	Additional funds towards Dam replacement project	2
M	P22-142	Seymour Hannah - Capital Equipment Repairs	Replace brine pump motors (x 4) which are at end of serviceable life	2
M	P22-154	Morningstar Mill - Structural Repairs	Waterproofing and structural repairs to Miller's House; structural masonry repairs to Regional Barn	2
M	P22-155	Morningstar Mill - Replace Roofing	Replacement of cedar shingles on roof of Sawmill and Miller's house buildings	2
M	P18-144	Buchanan House - Security Implementation	Security upgrades (Phase 2)	3
M	P22-137	Buchanan House - Accessible Washroom Upgrade	Renovate washroom and implement accessibility features	3
M	P22-137-1	Buchanan House - Elevator Upgrade	Upgrade/modernize existing elevator to meet current codes and accessibility requirements	3

2022 CAPITAL BUDGET SORTED BY WARD - FACILITIES PROJECTS
(SCHEDULE AE)

Schedule	Project No.	Project Name / Location	Details	WARD
M	P22-143	Lester B. Pearson Park - KAC Pool Repairs and Lighting	Repair and regrout stains in leisure pool; replace exterior parking lot lighting fixtures with LEDs	3
M	P22-148	Berkley Park - Replace Tennis Court Lighting	Replace existing tennis courts light fixtures with LEDs to reduce utility and maintenance costs	3
M	P22-149	Lancaster Park - Bleacher Waterproofing	Waterproofing of bleachers above diamond 1 washroom	3
L	PRC22-05	Restoration of William Hamilton Merritt Statue	Address structural and maintenance issues and reduce health and safety concerns	4
L	PRC22-06	Relocation of Private Watson Statue	To remove the Private Watson Monument from City Hall and preserve it to ensure public safety (CRCS-127-2021)	4
L	P22-167	St. Patrick's Park Multi-Use Court - Parks Renewal Plan	Replace court which is at end of useful life, and maintain level of service as per the Parks Renewal Plan (CRCS-042-2021)	4
M	P20-145	Seymour Hannah - LED lighting	Funds replenishment for lighting project	4
M	P21-136	Haig Bowl Arena - Roof Replacement	Additional funds to cover shortfall of lower roof replacement	4
M	P22-133	City Hall - Church St. Elevator Modifications	Upgrade and modernize existing elevator	4
M	P22-134	City Hall - Improvements	Upgrade BAS control system (phase 3); replacement of drinking fountains with water bottle filling stations	4
M	P22-138	Old Court House - Phase 1 Window Refurbishment	Replace windows adjacent to fire escape to meet code. Refurbishment of all 1st and 2nd floor windows	4
M	P22-156	Performing Arts Centre - Exterior Wall Cladding	Capital repairs to wall cladding, horizontal bands and parapet flashing to mitigate water infiltration concerns	4
M	P22-157	Meridian Centre - Replace Board Glass	Replacement of acrylic dasher board glass due to end of service life and to meet OHL standards	4
M	P22-158	Meridian Centre - Light Replacements	Replacement of remaining fluorescent light fixtures with LEDs in corridor and concession areas to reduce utility and maintenance costs	4

2022 CAPITAL BUDGET SORTED BY WARD - FACILITIES PROJECTS
(SCHEDULE AE)

Schedule	Project No.	Project Name / Location	Details	WARD
M	P22-171	City Hall - Front Steps Replacements	Repair and replace damaged concrete steps at front entrance to maintain safe access	4
N	P22-160	Carlisle St. Parking Garage - Replace Entrance Gate	Replacement of one (1) entrance gate from the Garden Park side to facilitate larger vehicles	4
N	P22-161	Ontario St. Parking Garage - Ceiling Testing Ports	Necessary upgrades to the the ceiling testing ports to facilitate biennial strand monitoring	4
Q	PCI22-01	New Switches at City Hall and Meridian Centre	Replace current switches which are at end of useful life	4
L	P22-166	Louis Avenue Park Basketball Court - Parks Renewal Plan	Replace court which is at end of useful life, and maintain level of service as per the Parks Renewal Plan (CRCS-042-2021)	5
M	P22-151	Port Weller Community Centre - Site Improvements	Reconstruct north parking lot, resurface south parking lot, tennis courts, and replace exterior lighting	5
M	P22-150	Sunset Beach - Boat Ramp Capital Repairs	Complete necessary capital repairs to prolong the service life of concrete boat ramp	5
L	PRC21-04	Basketball/Tennis/Pickleball Court & Playground	Replace basketball/tennis/pickleball assets which are at end of useful life, and maintain level of service	6
L	P22-164	Elma Street Park Multi-Use Court - Parks Renewal Plan	Replace court which is at end of useful life, and maintain level of service as per the Parks Renewal Plan (CRCS-042-2021)	6
M	P19-166	Bill Burgoyne Arena - Upgrade Life Safety Systems	Additional funds towards fire alarm panel and replacement of associated devices	6
M	P22-136	Lake Street Service Centre - Site Paving	Resurface site paving, driveway and parking stalls along the north side of the facility	6
M	P22-139	Bill Burgoyne Arena - Exterior Cladding	Installation of exterior cladding and insulation on perimeter walls to improve energy efficiency and to protect exterior block walls	6
M	P22-145	Port Dalhousie Lions Park - Wading Pool Repairs	Sandblast and repaint wading pool to prolong service life	6
M	P22-146	Lakeside Park - Grinder Sump Pumps & Controls	Replacement of grinder sump pumps in pit adjacent to washroom building to reduce ongoing maintenance issues	6

2022 CAPITAL BUDGET SORTED BY WARD - FACILITIES PROJECTS
(SCHEDULE AE)

Schedule	Project No.	Project Name / Location	Details	WARD
M	P22-147	Lakeside Park - East & West Pier Improvements	Light bollards and timber boat fenders for the west pier and twelve benches for the east pier	6
M	P22-152	Rear Inner Range Lighthouse - Building Envelope Improvements	Replace upper windows, paint sills, heads & gables	6
M	P22-153	Lakeside Park - Carousel Accessibility	Implement barrier free access to Carousel	6
M	P22-170	Lockhart Point Old Lock 1 - Event Power	Provide electrical event power, meter and site lighting for Old Lock 1 event stage	6
O	P22-173	Firehall #2 - Linwell Rd Rebuild Fire Station	Design and construction of a replacement Firehall #2, which is past its expected useful life.	6
M	P22-159	Replacement of Security Cameras - Phase 1	Replacements due to end of serviceable life, and improvements in technology at various locations	City wide
O	PFR22-01	Communication Towers Upgrade	Total cost for all five (5) links, ancillary equipment and installation for improved communication with our equipment	City wide
L	P21-156	Splashpad, Sun Shelter & Washroom	Installation of a splashpad, seasonal washroom facility and sun shelter as per the Aquatics Facilities Strategy approved by Council in Q3 2021 (CRCS-042-2021)	To be determined