

Draft



**2021-2030
Capital Budget Details**

(Budget Book 3 of 3)

November 2020

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City of Peterborough

Combined Tangible & Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Combined Tangible and Other Capital Program Summary																	
CAO		34,290.0	2,340.4	4,068.2		4,068.2	75.0		3,500.0	493.2	8,457.0	8,457.0	962.0	962.0	18,462.4	18,462.4	
Corporate and Legislative Services		173,977.4	18,294.7	8,173.5	125.6	8,047.9	2,878.0		2,796.6	2,373.3	8,309.7	8,309.7	11,224.5	11,224.5	127,975.0	127,975.0	
Community Services		148,441.3	15,236.5	2,479.3	933.0	1,546.3	600.3	231.0		715.0	28,503.5	27,448.8	32,292.8	28,201.1	69,929.2	61,340.1	
Infrastructure and Planning Services		1,325,876.3	204,227.2	54,340.9	7,745.1	46,595.7	4,536.0	934.5	23,724.5	17,400.6	100,655.6	87,048.8	103,425.2	87,609.2	863,227.4	809,586.6	
Police Services		2,315.7	177.5	1,670.7		1,670.7	1,500.0	63.8		107.0	27.5	27.5			440.0	440.0	
Total		1,684,900.8	240,276.3	70,732.5	8,803.8	61,928.8	9,589.3	1,229.3	30,021.1	21,089.1	145,953.3	131,291.8	147,904.6	127,996.8	1,080,034.1	1,017,804.0	

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Tangible Capital Program Summary																	
CAO		33,325.6	1,451.0	3,993.2		3,993.2			3,500.0	493.2	8,457.0	8,457.0	962.0	962.0	18,462.4	18,462.4	
Corporate and Legislative Services		164,935.4	15,182.2	7,098.3	125.6	6,972.7	1,802.8		2,796.6	2,373.3	7,045.0	7,045.0	10,200.0	10,200.0	125,410.0	125,410.0	
Community Services		123,084.2	5,772.5	931.0	80.0	851.0	320.0	125.5		405.5	26,479.8	26,375.8	30,553.7	27,447.7	59,347.2	54,666.2	
Infrastructure and Planning Services		1,233,772.1	159,366.2	48,876.3	7,745.1	41,131.1	3,023.9	934.5	23,524.5	13,648.1	94,072.0	80,465.1	97,690.2	81,874.2	833,767.4	784,126.6	
Police Services		1,543.2		1,543.2		1,543.2	1,500.0			43.2							
Total		1,556,660.5	181,771.9	62,441.9	7,950.8	54,491.2	6,646.7	1,060.0	29,821.1	16,963.4	136,053.8	122,342.9	139,405.9	120,483.9	1,036,987.1	982,665.2	

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Other Capital Program Summary																
CAO		964.4	889.4	75.0		75.0	75.0									
Corporate and Legislative Services		9,041.9	3,112.6	1,075.2		1,075.2	1,075.2				1,264.7	1,264.7	1,024.5	1,024.5	2,565.0	2,565.0
Community Services		25,357.1	9,464.0	1,548.3	853.0	695.3	280.3	105.6		309.4	2,023.7	1,073.0	1,739.1	753.5	10,582.0	6,673.9
Infrastructure and Planning Services		92,104.3	44,861.0	5,464.6		5,464.6	1,512.1		200.0	3,752.5	6,583.7	6,583.7	5,735.0	5,735.0	29,460.0	25,460.0
Police Services		772.5	177.5	127.5		127.5		63.8		63.8	27.5	27.5			440.0	440.0
Total		128,240.2	58,504.5	8,290.6	853.0	7,437.6	2,942.6	169.3	200.0	4,125.7	9,899.5	8,948.9	8,498.6	7,513.0	43,047.0	35,138.9

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
CAO Summary																
Communication Services	2-1	227.0	177.0								25.0	25.0	25.0	25.0		
Fire Services	2-2	33,098.6	1,274.0	3,993.2		3,993.2			3,500.0	493.2	8,432.0	8,432.0	937.0	937.0	18,462.4	18,462.4
Total		33,325.6	1,451.0	3,993.2		3,993.2			3,500.0	493.2	8,457.0	8,457.0	962.0	962.0	18,462.4	18,462.4

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
CAO Summary																	
Communication Services	2-1	964.4	889.4	75.0		75.0	75.0										
Total		964.4	889.4	75.0		75.0	75.0										

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
CAO Communication Services																
City Branding	2-1.01	227.0	177.0								25.0	25.0	25.0	25.0		
Total		227.0	177.0								25.0	25.0	25.0	25.0		

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: CAO**Budget Reference #:** 2-1.01**Division:** Chief Administrative Officer - Communication Services**Project Name & Description**

Community Branding

Commitments Made

Council endorsed the Brand Idea and the Creative Assets for the Community Brand at its meeting on April 9, 2018.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

The goal of Community Branding is to establish a theme or idea that the City and community can use consistently that captures our identity, supports consistency in communication, and instills pride in what makes Peterborough a compelling choice as a place to live, work and play. Updates have been provided to Council throughout 2017-18 through reports:

CPFS17-024 - May 29, 2017

CPFS17-045 - July 24, 2017

CPFS17-066 - November 6, 2017

CPFS18-004 - April 9, 2018

Some funds have been set aside for one-time costs to implement the new brand. The implementation generally calls for the new brand to be implemented as assets are replaced through their normal replacement schedule. Examples of one-time costs for implementation outside of the normal replacement schedule include certain signage, such as worn signs that have the orange P symbol for Peterborough and the application of the new City logo on City vehicles ahead of the full rebranding when the vehicles are replaced as part of their normal replacement schedule.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	CAO									
Division	Chief Administrative Officer - Communication Services									
Project Description	City Branding									
Project #	2-1.01									
Expenditures										
Contractual Services		227.0	177.0		25.0	25.0				
Net Requirements		<u>227.0</u>	<u>177.0</u>		<u>25.0</u>	<u>25.0</u>				
To Be Financed From:										
Capital Levy		<u>227.0</u>	<u>177.0</u>		<u>25.0</u>	<u>25.0</u>				

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
CAO Communication Services																	
Accessible Documents Compliance	2-1.02	50.0		50.0		50.0	50.0										
Accessibility Improvements	2-1.03	914.4	889.4	25.0		25.0	25.0										
Total		964.4	889.4	75.0		75.0	75.0										

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: CAO**Budget Reference #:** 2-1.02**Division:** Chief Administrative Officer - Communication Services**Climate Mitigation:** Yes**Project Name & Description**

Accessible Documents Compliance - To meet the provincial legislated requirement under the Integrated Accessibility Standards (IASR), Section 14, content posted on the City of Peterborough website and online through other services on behalf of the City must meet WCAG 2.0 Level AA standards. As of mid-2020, there were approximately 20,000 PDFs on the City website and about 350 hours of recorded video. With the corporate implementation of Office 365 and the use of Adobe Acrobat Pro DC for key staff, compliance, training and remediation work is required to allow the corporation to produce accessible documents and video content on a go-forward basis. This will require additional services on a one-time basis to integrate new processes into existing workflows.

Commitments Made

The City has worked with the Ministry for Seniors and Accessibility on the creation of a plan to achieve a compliant report for accessibility standards.

Effects on Future Operating Budgets

After achieving the necessary status for compliance on a go-forward basis, there may be additional staffing time and services needed on an ongoing basis in program areas to maintain compliance outside of the project to achieve compliance for the corporation.

Project Detail, Justification & Reference Map

Estimated number of essential/important documents and recorded video content on the City website include:

- 80 PDF forms
- 9,000 by-laws (1960 to present)
- 8,460 Council agendas, reports and minutes (2008 to present)
- 800 professional development, hospitality and travel expense claim forms
- 180 heritage designation property reports
- 90 Committee of Adjustment reports and minutes
- Budget documents
- Assorted reports, etc. ranging from one to 1,300 pages for each document
- 350 hours of recorded video

Accessibility Considerations

Accessibility for Ontarians with Disabilities Act, 2005 - Integrated Accessibility Standards regulations, Section 14

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	CAO										
Division	Chief Administrative Officer - Communication Services										
Project Description	Accessible Documents Compliance										
Project #	2-1.02										
Expenditures											
Contractual Services		50.0		50.0							
Net Requirements		<u>50.0</u>		<u>50.0</u>							
To Be Financed From:											
Capital Levy		<u>50.0</u>		<u>50.0</u>							

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: CAO**Budget Reference #:** 2-1.03**Division:** Chief Administrative Officer - Communication Services**Project Name & Description**

Accessibility Improvements - Improvements to City-owned or operated facilities to allow for barrier-free access for people with disabilities. This fund (called the "Access Fund") is administered by the Accessibility Advisory Committee (AAC).

Commitments Made

Council adopted a policy in 1989 of upgrading all municipal buildings to meet or exceed Ontario Building Code standards with respect to barrier-free design. The Accessibility for Ontarians with Disabilities Act (2005) has a goal of an accessible Ontario by the year 2025. The City is obligated to follow the Customer Service Standard and the Integrated Accessibility Standard, which includes a general requirement that accessibility must be considered for all procurement, as well as requirements for Employment, Transportation, Information and Communication, and the Design of Public Spaces. Most City projects now include accessibility as a legislated requirement and are budgeted accordingly. The Access Fund is intended to fund projects that the City might otherwise not get to, or where the minimum legislated requirement should be enhanced.

Effects on Future Operating Budgets

An annual contribution, from the Operating Budget, is made to the Access Fund to fund these capital projects.

Project Detail, Justification & Reference Map

The AAC consists of individuals with various mobility, hearing and visual disabilities as well as representatives from community agencies that support people with disabilities such as the CNIB and an appointed Member of City Council. City staff present projects that improve accessibility and request funding. A list of all City facilities and their status with respect to accessibility has been updated. From this list, a priority rating will be established and used for funding future accessibility projects.

The uncommitted balance in the Access Fund as of the end of 2020 is projected to be \$5,000.

The amount will be applied towards specific department requests or other accessibility projects as the AAC deems appropriate or necessary to make City-owned facilities more accessible. Examples include installation of elevators, ramps, power-operated doors, handrails, signage, accessible washrooms, strobe alarms, and contrast stripes on stairs.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	CAO									
Division	Chief Administrative Officer - Communication Services									
Project Description	Accessibility Improvements									
Project #	2-1.03									
Expenditures										
Contractual Services		914.4	889.4	25.0						
Net Requirements		<u>914.4</u>	<u>889.4</u>	<u>25.0</u>						
To Be Financed From:										
Reserves										
Accessibilty Improvements Reserve		889.4	889.4							
Total Reserves		<u>889.4</u>	<u>889.4</u>							
Capital Levy		<u>25.0</u>		<u>25.0</u>						

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
CAO Fire Services																
Fire Station Relocations and Construction	2-2.01	25,000.0	200.0	3,500.0		3,500.0			3,500.0		7,300.0	7,300.0			14,000.0	14,000.0
Fire Fighter Equipment and Personal Protective Equipment (PPE)	2-2.02	2,297.6	424.0	253.2		253.2				253.2	384.0	384.0	174.0	174.0	1,062.4	1,062.4
Fire Apparatus Replacement/Additions	2-2.03	5,801.0	650.0	240.0		240.0				240.0	748.0	748.0	763.0	763.0	3,400.0	3,400.0
Total		33,098.6	1,274.0	3,993.2		3,993.2			3,500.0	493.2	8,432.0	8,432.0	937.0	937.0	18,462.4	18,462.4

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: CAO**Budget Reference #:** 2-2.01**Division:** Fire - Fire Services**Climate Adaptation:** Yes**Project Name & Description**

Fire Station Relocations/Construction

Commitments Made**Effects on Future Operating Budgets**

There will be an initial lowered cost of maintenance on the future operating budget for the replacement of Fire Station #2.

Project Detail, Justification & Reference Map

In 2020 Council approved Report CAO20-004 that identified three possible locations for Fire Station #2 based on coverage and response times and recommended the continued capital project development of Fire Station #2. The Report additionally confirmed the preferred location for Fire Station #4 was on the City's east side, in the Lansdowne Street and Ashburnham Drive intersection area.

The \$10.8 million requested in the 2021 and 2022 budgets represent the estimated overall cost to replace Station #2.

Development of Fire Station #4 is projected in the future annual capital budget for consideration weighing budget priorities and the progress of scheduled development.

Accessibility Considerations

The new facility will meet the requirements of the Ontario Building Code for accessibility.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	CAO										
Division	Fire - Fire Services										
Project Description	Fire Station Relocations and Construction										
Project #	2-2.01										
Expenditures											
Contractual Services		25,000.0	200.0	3,500.0	7,300.0					14,000.0	
Net Requirements		<u>25,000.0</u>	<u>200.0</u>	<u>3,500.0</u>	<u>7,300.0</u>					<u>14,000.0</u>	
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported		5,400.0		1,750.0	3,650.0						
DEBT DC-Fire		19,400.0		1,750.0	3,650.0					14,000.0	
Total Debenture Financing		<u>24,800.0</u>		<u>3,500.0</u>	<u>7,300.0</u>					<u>14,000.0</u>	
Reserves											
Development Charges Res		73.0	73.0								
Total Reserves		<u>73.0</u>	<u>73.0</u>								
Capital Levy		<u>127.0</u>	<u>127.0</u>								

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** CAO**Budget Reference #:** 2-2.02**Division:** Fire - Fire Services**Project Name & Description**

Fire Fighter Equipment and Personal Protective Equipment (PPE)

Commitments Made

To maintain this program for each subsequent year as mandated by the Ministry of Labour (MOL), it is necessary to continue annual capital budget expenditures for the acquisition of PPE.

Effects on Future Operating Budgets

The provision of additional PPE as mandated by the MOL will increase annual operating, maintenance and repair costs. PPE has an operational life of 5-10 years and includes specially designed pants and coats, gloves, helmets, boots and other protective clothing to fire service standards.

This TCA program allows for the replacement of decommissioned PPE to ensure firefighters are suitably equipped to remain in-service when their primary set of PPE has been taken out of service for cleaning and/or repairs. This is a priority health and safety part of the TCA program.

Project Detail, Justification & Reference Map

In compliance with current standards, 38 Self Contained Breathing Apparatus (SCBA) and 97 cylinders will reach their maximum anticipated life of 15 years; therefore, replacement of 38 SCBA and 97 cylinders will be required in 2022.

Currently, funds are being contributed to a Fire Fighting and Safety Equipment Reserve from the operating budget to provide for sufficient funds for purchase in 2022.

This TCA program also covers the purchase of various fire fighting equipment such as:

- Power tools, hose, nozzles and related tools and equipment
- Training props for safe fire and rescue training operations
- Replacement of specialty rescue equipment and trailer
- Water/ice rescue equipment

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	CAO									
Division	Fire - Fire Services									
Project Description	Fire Fighter Equipment and Personal Protective Equipment (PPE)									
Project #	2-2.02									
Expenditures										
Contractual Services		2,297.6	424.0	253.2	384.0	174.0	174.8	175.6	712.0	
Net Requirements		<u>2,297.6</u>	<u>424.0</u>	<u>253.2</u>	<u>384.0</u>	<u>174.0</u>	<u>174.8</u>	<u>175.6</u>	<u>712.0</u>	
To Be Financed From:										
Reserves										
Fire Fighting & Safety Equip Reserve		2,297.6	424.0	253.2	384.0	174.0	174.8	175.6	712.0	
Total Reserves		<u>2,297.6</u>	<u>424.0</u>	<u>253.2</u>	<u>384.0</u>	<u>174.0</u>	<u>174.8</u>	<u>175.6</u>	<u>712.0</u>	

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: CAO**Budget Reference #:** 2-2.03**Division:** Chief Administrative Officer - Fire Services**Climate Mitigation:** Yes**Project Name & Description**

Fire Apparatus Replacement/Additions

Commitments Made**Effects on Future Operating Budgets**

The ongoing replacement of apparatus will lower maintenance costs in future years.

To meet the proposed capital expenditures, the annual contribution of \$300,000 from the operating budget to the Fire Vehicle Equipment Reserve Fund will need to be maintained.

Project Detail, Justification & Reference Map

Fire Apparatus/Vehicle replacement Schedule:

Design Year	Delivery & Purchase	
	Year	Equipment and Current (\$)
2021	2021	Technical Rescue Retrofit - \$175,000
2021	2021	Replace Support Unit - \$68,000
2022	2022	Replace Support Unit - \$69,000
2022	2022	Replace Rescue Pumper - \$680,000
2023	2023	Station 4 Pumper & Support Unit - \$763,000
2024	2024	Replace 1991 Aerial Truck - \$1,800,000
2025	2025	Replace Support Unit - \$75,000
2026	2026	Replace Rescue Pumper - \$700,000
2027	2027	Replace Support Unit - \$76,000
2029	2029	Replace Rescue Pumper - \$750,000
2030	2030	Replace Support Unit - \$79,000

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	CAO									
Division	Chief Administrative Officer - Fire Services									
Project Description	Fire Apparatus Replacement/Additions									
Project #	2-2.03									
Expenditures										
Contractual Services		5,801.0	650.0	240.0	748.0	763.0	1,800.0	75.0	1,525.0	
Net Requirements		<u>5,801.0</u>	<u>650.0</u>	<u>240.0</u>	<u>748.0</u>	<u>763.0</u>	<u>1,800.0</u>	<u>75.0</u>	<u>1,525.0</u>	
To Be Financed From:										
Reserves										
Fire Vehicle Equipment Reserve		5,801.0	650.0	240.0	748.0	763.0	1,800.0	75.0	1,525.0	
Total Reserves		<u>5,801.0</u>	<u>650.0</u>	<u>240.0</u>	<u>748.0</u>	<u>763.0</u>	<u>1,800.0</u>	<u>75.0</u>	<u>1,525.0</u>	

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Corporate and Legislative Services Summary																
Facilities Management	3-1	114,629.4	3,605.0	3,619.4		3,619.4	680.0		1,555.0	1,384.4	3,740.0	3,740.0	7,415.0	7,415.0	96,250.0	96,250.0
Facilities and Planning Initiatives	3-2	20,522.6	1,732.6	320.0		320.0			320.0		1,025.0	1,025.0	1,010.0	1,010.0	16,435.0	16,435.0
Information Technology	3-3	18,189.9	150.0	1,559.9	125.6	1,434.3	645.4			788.9	1,980.0	1,980.0	1,775.0	1,775.0	12,725.0	12,725.0
Other	3-4	11,593.6	9,694.6	1,599.0		1,599.0	477.4		921.6	200.0	300.0	300.0				
Total		164,935.4	15,182.2	7,098.3	125.6	6,972.7	1,802.8		2,796.6	2,373.3	7,045.0	7,045.0	10,200.0	10,200.0	125,410.0	125,410.0

City of Peterborough
Other Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Corporate and Legislative Services Summary																
Facilities Management	3-1	1,100.0	250.0	400.0		400.0	400.0				250.0	250.0	50.0	50.0	150.0	150.0
Other	3-4	7,941.9	2,862.6	675.2		675.2	675.2				1,014.7	1,014.7	974.5	974.5	2,415.0	2,415.0
Total		9,041.9	3,112.6	1,075.2		1,075.2	1,075.2				1,264.7	1,264.7	1,024.5	1,024.5	2,565.0	2,565.0

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Corporate and Legislative Services Facilities Management																
City Buildings - Facilities Management	3-1.01	8,335.0	710.0	185.0		185.0	20.0			165.0			450.0	450.0	6,990.0	6,990.0
City Buildings - Community Services	3-1.02	28,980.0	2,495.0	2,065.0		2,065.0	70.0		1,205.0	790.0	1,035.0	1,035.0	2,645.0	2,645.0	20,740.0	20,740.0
City Buildings - IPS	3-1.03	5,604.4	400.0	799.4		799.4	370.0			429.4	980.0	980.0	200.0	200.0	3,225.0	3,225.0
City Buildings - Fire Services	3-1.04	3,710.0		570.0		570.0	220.0		350.0		1,225.0	1,225.0	120.0	120.0	1,795.0	1,795.0
New Peterborough Police Station	3-1.05	68,000.0									500.0	500.0	4,000.0	4,000.0	63,500.0	63,500.0
Total		114,629.4	3,605.0	3,619.4		3,619.4	680.0		1,555.0	1,384.4	3,740.0	3,740.0	7,415.0	7,415.0	96,250.0	96,250.0

2021 - 2030 Capital Budget Justification Tangible Capital Assets

CAP Form 1 (TCA)

Department: Corporate and Legislative Services**Budget Reference #:** 3-1.01**Division:** Finance - Facilities Management**Project Name & Description**

Corporate and Legislative Services - Facilities Management

Commitments Made

The building audits have been completed. The information contained in the audits shall be prioritized in a 20 year life cycle plan. The items identified shall then require repair and/or replacement and appropriate budgets shall be designated per facility.

Effects on Future Operating Budgets

The repairs and/or replacements will reduce future maintenance and operating costs.

Project Detail, Justification & Reference Map

2021	Project Description	
1.	PTBO Daycare - Replace Floor Tiles	\$20,000
2.	City Hall Upgrade BAS	\$165,000
		<u>\$185,000</u>

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Corporate and Legislative Services										
Division	Finance - Facilities Management										
Project Description	Corporate and Legislative Services - Facilities Management										
Project #	3-1.01										
Expenditures											
Contractual Services		8,335.0	710.0	185.0		450.0	550.0	880.0	5,560.0		
Net Requirements		<u>8,335.0</u>	<u>710.0</u>	<u>185.0</u>		<u>450.0</u>	<u>550.0</u>	<u>880.0</u>	<u>5,560.0</u>		
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported		500.0	500.0								
Total Debenture Financing		<u>500.0</u>	<u>500.0</u>								
Reserves											
Property Reserve		165.0		165.0							
Court House Reserve		835.0					400.0	435.0			
Total Reserves		<u>1,000.0</u>		<u>165.0</u>			<u>400.0</u>	<u>435.0</u>			
Capital Levy		<u>6,835.0</u>	<u>210.0</u>	<u>20.0</u>		<u>450.0</u>	<u>550.0</u>	<u>480.0</u>	<u>5,125.0</u>		

2021 - 2030 Capital Budget Justification Tangible Capital Assets

CAP Form 1 (TCA)

Department: Corporate and Legislative Services**Budget Reference #:** 3-1.02**Division:** Finance - Facilities Management**Project Name & Description**

Corporate and Legislative Services - Facilities Management -
Community Services

Commitments Made

The building audits have been completed. The information contained in the audits shall be prioritized in a 20 year life cycle plan. The items identified shall then require repair and/or replacement and appropriate budgets shall be designated per facility.

Effects on Future Operating Budgets

The repairs and/or replacements will reduce future maintenance and operating costs

Project Detail, Justification & Reference Map

2021	Project Description	
1.	Evinrude Centre - Roof & HVAC Replacement	\$700,000
2.	PSWC - Changeroom/Dectron/Heating Plant Replacement	\$50,000
3.	Evinrude Centre - Replace Parking Lot Lights w/LED	\$45,000
4.	Museum & Archives - Replace Rear Exit Stairs	\$300,000
5.	Kinsmen Arena - Replace Refrigeration Condenser	\$300,000
6.	PSWC - Front Reception Counter Replacement for Accessibility	\$20,000
7.	Memorial Centre - Replace Refrigeration Condenser	\$400,000
8.	Art Gallery - Upgrade Gallery Lighting	\$250,000
		<u>\$2,065,000</u>

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Facilities Management									
Project Description	Corporate and Legislative Services - Facilities Management - Community Services									
Project #	3-1.02									
Expenditures										
Contractual Services		28,980.0	2,495.0	2,065.0	1,035.0	2,645.0	2,300.0	3,550.0	14,890.0	
Net Requirements		<u>28,980.0</u>	<u>2,495.0</u>	<u>2,065.0</u>	<u>1,035.0</u>	<u>2,645.0</u>	<u>2,300.0</u>	<u>3,550.0</u>	<u>14,890.0</u>	
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		1,480.0	275.0	1,205.0						
Total Debenture Financing		<u>1,480.0</u>	<u>275.0</u>	<u>1,205.0</u>						
Reserves										
Federal Gas Tax		3,100.0	1,700.0	700.0	700.0					
Property Reserve		30.0	30.0							
Sustainability Reserve		45.0		45.0						
Museum Renovation Reserve		45.0		45.0						
Total Reserves		<u>3,220.0</u>	<u>1,730.0</u>	<u>790.0</u>	<u>700.0</u>					
Capital Levy		<u>24,280.0</u>	<u>490.0</u>	<u>70.0</u>	<u>335.0</u>	<u>2,645.0</u>	<u>2,300.0</u>	<u>3,550.0</u>	<u>14,890.0</u>	

2021 - 2030 Capital Budget Justification Tangible Capital Assets

CAP Form 1 (TCA)

Department: Corporate and Legislative Services**Budget Reference #:** 3-1.03**Division:** Finance - Facilities Management**Project Name & Description**

Corporate and Legislative Services - Facilities Management -
Infrastructure and Planning Services

Commitments Made

The building audits have been completed. The information contained in the audits shall be prioritized in a 20 year life cycle plan. The items identified shall then require repair and/or replacement and appropriate budgets shall be designated per facility.

Effects on Future Operating Budgets

The repairs and/or replacements will reduce future maintenance and operating costs.

Project Detail, Justification & Reference Map

2021	Project Description	
1.	WWTP - HVAC Upgrades to Administration Building	\$429,400
2.	Transit Garage - Replace HVAC Equipment	\$300,000
3.	King Street Parkade - Replace 2 Elevators	\$70,000
		<u>\$799,400</u>

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Facilities Management									
Project Description	Corporate and Legislative Services - Facilities Management - Infrastructure and Planning Services									
Project #	3-1.03									
Expenditures										
Contractual Services	5,604.4	400.0	799.4	980.0	200.0	145.0	400.0	2,680.0		
Net Requirements	<u>5,604.4</u>	<u>400.0</u>	<u>799.4</u>	<u>980.0</u>	<u>200.0</u>	<u>145.0</u>	<u>400.0</u>	<u>2,680.0</u>		
To Be Financed From:										
Reserves										
Sustainability Reserve	400.0			400.0						
Parking Reserve	70.0				70.0					
Waste Water Reserve Reserve	2,434.4	400.0	429.4					1,605.0		
Total Reserves	<u>2,904.4</u>	<u>400.0</u>	<u>429.4</u>	<u>400.0</u>	<u>70.0</u>			<u>1,605.0</u>		
Capital Levy	<u>2,700.0</u>		<u>370.0</u>	<u>580.0</u>	<u>130.0</u>	<u>145.0</u>	<u>400.0</u>	<u>1,075.0</u>		

2021 - 2030 Capital Budget Justification Tangible Capital Assets

CAP Form 1 (TCA)

Department: Corporate and Legislative Services**Budget Reference #:** 3-1.04**Division:** Finance - Facilities Management**Project Name & Description**

Corporate and Legislative Services - Facilities Management - Fire Services

Commitments Made

The building audits have been completed. The information contained in the audits shall be prioritized in a 20 year life cycle plan. The items identified shall then require repair and/or replacement and appropriate budgets shall be designated per facility.

Effects on Future Operating Budgets

The repairs and/or replacements will reduce future maintenance and operating costs.

Project Detail, Justification & Reference Map

2021	Project Description	
1.	Fire Station #1 - Upgrade Fire Alarm Panel	\$50,000
2.	Fire Station #1 - Replace Roof Safety Railings	\$50,000
3.	Fire Station #1 - Replace all Windows & Cladding	\$350,000
4.	Fire Station #1 - Replace A/C Unit in Communications Centre	\$120,000
		<u><u>\$570,000</u></u>

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Corporate and Legislative Services										
Division	Finance - Facilities Management										
Project Description	Corporate and Legislative Services - Facilities Management - Fire Services										
Project #	3-1.04										
Expenditures											
Contractual Services		3,710.0		570.0	1,225.0	120.0			1,795.0		
Net Requirements		<u>3,710.0</u>		<u>570.0</u>	<u>1,225.0</u>	<u>120.0</u>			<u>1,795.0</u>		
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported		750.0		350.0	400.0						
Total Debenture Financing		<u>750.0</u>		<u>350.0</u>	<u>400.0</u>						
Reserves											
Sustainability Reserve		120.0				120.0					
Total Reserves		<u>120.0</u>				<u>120.0</u>					
Capital Levy		<u>2,840.0</u>		<u>220.0</u>	<u>825.0</u>				<u>1,795.0</u>		

2021 - 2030 Capital Budget Justification

Tangible Capital Assets

Department: Corporate and Legislative Services

Budget Reference #: 3-1.05

Division: Finance - Facilities Management

Climate Mitigation: Yes

Climate Adaptation: Yes

Project Name & Description

New Peterborough Police Station

Commitments Made

Council approved Report CLSFM19 004 for the Peterborough Police Service Facility Space Needs Study Update and Presentation. Council deferred the report back to the Facility Space Needs Study Steering Committee and that the Steering Committee work together with the Police Services Board to look at the five options presented and make a recommendation to Council on the suggested next steps.

Effects on Future Operating Budgets

A replacement facility for the existing Police Station is recommended to increase the square footage to 95,000 sq. ft. including additional spaces for training (combative, exercise, classrooms and firearms), file and equipment storage, meeting/project rooms, IT infrastructure, interview rooms, enlarged lab and property areas, additional staff spaces, specialty vehicle storage and detention processing etc. built to a high energy and green standard. A new Police station will operate more efficiently on a square foot basis and will see a lower cost investment than the existing Police Station due to economies of scale, energy efficiencies and operating process.

Project Detail, Justification & Reference Map

Capital resources for this project are essential in order to plan, develop and construct a replacement facility for Peterborough Police Station. Estimated Capital costs for the project are itemized as follows:

Year	Description	Value
2022	Phase I -Feasibility Study;	\$500,000
2023	Phase II -Land Purchase & Schematic Design;	\$4,000,000
2024	Phase III -Commencement of detailed design;	\$2,000,000
2025	Phase IV -Construction tender & contract award;	\$26,000,000
2026	Pre-commit of construction funding;	\$20,000,000
2027	Pre-commit of construction funding;	\$15,500,000

The proposed schedule will have the project “shovel ready” by the fall of 2024, with the facility opening in the summer/fall of 2027. The project is eligible for development charges that address community growth needs; the balance of funding must be secured through other sources.

The budget proposes that the construction phase be financed over 3 years. If approved, staff would at the appropriate time request approval for a pre-commitment of funds for the second and third year.

Accessibility Considerations

The new facility will meet the 2015 AODA Built Environment requirements for accessibility.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Corporate and Legislative Services										
Division	Finance - Facilities Management										
Project Description	New Peterborough Police Station										
Project #	3-1.05										
Expenditures											
Contractual Services		68,000.0			500.0	4,000.0	2,000.0		61,500.0		
Net Requirements		<u>68,000.0</u>			<u>500.0</u>	<u>4,000.0</u>	<u>2,000.0</u>		<u>61,500.0</u>		
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported		24,849.1				2,500.0			22,349.1		
DEBT DC-Police		39,150.9							39,150.9		
Total Debenture Financing		<u>64,000.0</u>				<u>2,500.0</u>			<u>61,500.0</u>		
Capital Levy		<u>4,000.0</u>			<u>500.0</u>	<u>1,500.0</u>	<u>2,000.0</u>				

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Corporate and Legislative Services																
Facilities Management																
Security Upgrades to Various CoP Facilities	3-1.06	350.0		150.0		150.0	150.0				200.0	200.0				
Building Condition Audits for all City Facilities	3-1.07	500.0	250.0	250.0		250.0	250.0									
Facility Room Name & Numbers Signs	3-1.08	250.0									50.0	50.0	50.0	50.0	150.0	150.0
Total		1,100.0	250.0	400.0		400.0	400.0				250.0	250.0	50.0	50.0	150.0	150.0

**2021 - 2030 Capital Budget Justification
Other Capital Assets**

Department: Corporate and Legislative Services

Budget Reference #: 3-1.06

Division: Finance - Facilities Management

Project Name & Description

Security Upgrades to Various CoP Facilities

Commitments Made

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

This two year project would install swipe card security access to all City facilities through the current swipe card system utilized in various City facilities. This project will bring all facilities in-line with the current security protocols and allow staff to access multiple facilities with the same swipe card. The implementation of the system at all sites will allow facilities to automatically lock and unlock doors as scheduled.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Facilities Management									
Project Description	Security Upgrades to Various CoP Facilities									
Project #	3-1.06									
Expenditures										
Contractual Services		350.0		150.0	200.0					
Net Requirements		<u>350.0</u>		<u>150.0</u>	<u>200.0</u>					
To Be Financed From:										
Capital Levy		<u>350.0</u>		<u>150.0</u>	<u>200.0</u>					

**2021 - 2030 Capital Budget Justification
Other Capital Assets**

Department: Corporate and Legislative Services

Budget Reference #: 3-1.07

Division: Finance - Facilities Management

Project Name & Description

Building Condition Audits for all City Facilities

Commitments Made

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

Perform Building Condition Audits, Elevator Audits and Energy Audits on all City Facilities. The original Building Condition Audits were last performed in 2009 and 2010 and should be updated on a regular cycle. It is recommended that the audits should be updated every seven years.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Facilities Management									
Project Description	Building Condition Audits for all City Facilities									
Project #	3-1.07									
Expenditures										
Contractual Services		500.0	250.0	250.0						
Net Requirements		500.0	250.0	250.0						
To Be Financed From:										
Capital Levy		500.0	250.0	250.0						

2021 - 2030 Capital Budget Justification
Other Capital Assets

Department: Corporate and Legislative Services

Budget Reference #: 3-1.08

Division: Finance - Facilities Management

Project Name & Description

Facility Room Name & Numbers Signs

Commitments Made

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

Current City Facilities do not all have wayfinding signage and room numbers. City Hall was recently upgraded to have all need wayfinding signage and room numbers as a new standard that meets all accessibility requirements. This five year project would install new wayfinding signage and room numbers in all City Facilities to assist the public and staff and the room numbers will assist contractors in servicing the facilities with the Facilities Management Divisions Work Order System.

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Facilities Management									
Project Description	Facility Room Name & Numbers Signs									
Project #	3-1.08									
Expenditures										
Contractual Services		250.0			50.0	50.0	50.0	50.0	50.0	
Net Requirements		<u>250.0</u>			<u>50.0</u>	<u>50.0</u>	<u>50.0</u>	<u>50.0</u>	<u>50.0</u>	
To Be Financed From:										
Capital Levy		<u>250.0</u>			<u>50.0</u>	<u>50.0</u>	<u>50.0</u>	<u>50.0</u>	<u>50.0</u>	

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Corporate and Legislative Services Facilities and Planning Initiatives																
Wading Pool Conversions/New Splash Pads	3-2.01	3,790.0	800.0	320.0		320.0			320.0		375.0	375.0	360.0	360.0	1,935.0	1,935.0
Park Washroom Replacement Bldgs	3-2.02	1,582.6	932.6								650.0	650.0				
Construction of a New Washroom Building at Trent Ball Diamond	3-2.03	650.0											650.0	650.0		
Development of New Ball Diamonds and Field House	3-2.04	14,500.0													14,500.0	14,500.0
Total		20,522.6	1,732.6	320.0		320.0			320.0		1,025.0	1,025.0	1,010.0	1,010.0	16,435.0	16,435.0

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Corporate and Legislative Services

Budget Reference #: 3-2.01

Division: Finance - Facilities and Planning Initiatives

Project Name & Description

Wading Pool Conversions/New Splash Pads

This project delivers new water play opportunities in children's playgrounds over a ten-year period. The first recommendation is the ongoing replacement of existing wading pools with new splash pads. The second recommendation is for new water play facilities in under served areas in Peterborough. The final recommendation is a splash pad for Beavermead Park.

Commitments Made

No further commitments have been made at this time, however, the Arenas, Parks & Recreation Advisory Committee have supported a comprehensive strategy to offer cost effective water play facilities.

Effects on Future Operating Budgets

The conversion of wading pools to splash pads will see the elimination of lifeguard supervision and chlorine supplies each year.

Project Detail, Justification & Reference Map

The City currently operates four supervised wading pools located at Turner Park, Chelsea Gardens, Knights of Columbus Park and John Taylor Memorial Park which are showing signs of decline and require replacement.

A strategy to address aging infrastructure and demands for new facilities was included in Report APRAC 16-017 Outdoor Water Play Facilities 10 Year Capital Strategy. New splash pad facilities are identified in this Report for the areas of Peterborough South West End and West End, locations to be determined. Beavermead Park is identified as a longer term location for a splash pad facility. This report is further supported by the Vision 2025 report that currently identifies a shortfall in water play and splash pads within the City.

In 2017, Barnardo Park wading pool was converted to a splash pad and in 2019, budget was assigned to address malfunctioning and irreparable spray posts at Hamilton Park and Olympus Park as part of the ten-year strategy.

The 2021 request of \$320,000 is for the removal of the existing wading pool at Turner Park to be replaced with a splash pad.

Accessibility Considerations

All new facilities will address AODA requirements for accessibility of outdoor playscapes.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Facilities and Planning Initiatives									
Project Description	Wading Pool Conversions/New Splash Pads									
Project #	3-2.01									
Expenditures										
Contractual Services		3,790.0	800.0	320.0	375.0	360.0	375.0	380.0	1,180.0	
Direct Revenue										
Provincial grant		300.0	300.0							
Total Direct Revenue		<u>300.0</u>	<u>300.0</u>							
Net Requirements		<u>3,490.0</u>	<u>500.0</u>	<u>320.0</u>	<u>375.0</u>	<u>360.0</u>	<u>375.0</u>	<u>380.0</u>	<u>1,180.0</u>	
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		320.0		320.0						
Total Debenture Financing		<u>320.0</u>		<u>320.0</u>						
Reserves										
Capital Levy Reserve		300.0	300.0							
Casino Gaming Reserve		200.0	200.0							
Total Reserves		<u>500.0</u>	<u>500.0</u>							
Capital Levy		<u>2,670.0</u>			<u>375.0</u>	<u>360.0</u>	<u>375.0</u>	<u>380.0</u>	<u>1,180.0</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-2.02**Division:** Finance - Facilities and Planning Initiatives**Project Name & Description**

Park Washroom Replacement Buildings

This budget requests funds to replace washroom buildings that are in excess of 50 years old with modern, accessible facilities.

Commitments Made

No further commitment has been made at this time.

Effects on Future Operating Budgets

Replacement facilities that are modernized, efficient and durable will reduce the annual maintenance by Public Works staff.

Project Detail, Justification & Reference Map

Three park washroom buildings were identified as aged and in poor condition in active use parks. Replacement facilities, that serve a broader sector of the public, are recommended.

The City replaced King Edward Park washroom building in 2016 and Nicholl's Oval Park washroom building in 2018.

The 2022 request of \$650,000 is to replace the Jackson Park washroom facility and complete this multi year project.

Accessibility Considerations

The facilities recommended in this budget will meet or exceed the minimum accessibility requirements of the Ontario Building Code.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project	Approved	REQUESTED					2026 to	2031 to
		Total	Pre-2021	2021	2022	2023	2024	2025	2030	2045
Department	Corporate and Legislative Services									
Division	Finance - Facilities and Planning Initiatives									
Project Description	Park Washroom Replacement Bldgs									
Project #	3-2.02									
Expenditures										
Contractual Services		1,582.6	932.6		650.0					
Direct Revenue										
Contribution from related project		12.6	12.6							
Total Direct Revenue		12.6	12.6							
Net Requirements		1,570.0	920.0		650.0					
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		1,475.0	825.0		650.0					
Total Debenture Financing		1,475.0	825.0		650.0					
Reserves										
Capital Levy Reserve		95.0	95.0							
Total Reserves		95.0	95.0							

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-2.03**Division:** Finance - Facilities and Planning Initiatives**Project Name & Description**

Construction of a New Washroom Building at Trent Ball Diamond

This budget request will fund a new washroom building at the baseball diamond and sport field facility at Trent University.

Commitments Made

No commitment has been made at this time, however, a washroom facility at this location was part of the master plan for this site.

Effects on Future Operating Budgets

Future operating budgets will reflect the cost of maintaining this washroom facility.

Project Detail, Justification & Reference Map

The baseball diamond and sport field facility at Trent University was completed in 2016. The original master plan for the project identified a location for a future plan washroom building. External servicing is currently underway along Pioneer Road to support development in this area allowing a washroom building to be further considered at this facility location.

Accessibility Considerations

This facility will meet the requirements of the Ontario Building Code for accessibility. The building will accommodate provision of accessible, all inclusive universal washroom design.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Facilities and Planning Initiatives									
Project Description	Construction of a New Washroom Building at Trent Ball Diamond									
Project #	3-2.03									
Expenditures										
Contractual Services		650.0				650.0				
Net Requirements		<u>650.0</u>				<u>650.0</u>				
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		357.5				357.5				
DEBT DC-Parks		<u>292.5</u>				<u>292.5</u>				
Total Debenture Financing		<u>650.0</u>				<u>650.0</u>				

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-2.04**Division:** Corporate - Facilities and Planning Initiatives**Project Name & Description**

Development of New Ball Diamonds and Field House

This budget requests funds for the development of four new baseball diamonds and a field house to meet the ongoing growth of community sports and provide year round covered access to one sports field.

The field house would be a building enclosing a large area suitable for various forms of athletics and spectator seating.

Commitments Made

No commitments have been made at this time.

Effects on Future Operating Budgets

Future operating budgets will reflect the cost of maintaining this facility.

Project Detail, Justification & Reference Map

Funds allocated within this budget are for the development of sports field facilities. For example, the relocation of ball diamonds from Morrow Park should the Morrow grounds be altered as identified in the Morrow Park Master Plan.

The addition of a Field House will provide year-round access to an indoor track, athletic field, as well as court options for basketball, ball hockey, and racquet sports. It will provide a multi-functional facility that will meet the needs of the community including the capacity to accommodate many varied and unique training activities, as well as clinics and workshops.

Funds allocated in 2025 will explore potential site locations and conceptual design for this project.

Accessibility Considerations

The facilities recommended will meet the AODA guidelines for fully accessible design.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Corporate and Legislative Services										
Division	Corporate - Facilities and Planning Initiatives										
Project Description	Development of New Ball Diamonds and Field House										
Project #	3-2.04										
Expenditures											
Contractual Services		14,500.0						100.0	14,400.0		
Net Requirements		<u>14,500.0</u>						<u>100.0</u>	<u>14,400.0</u>		
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported		6,640.0							6,640.0		
DEBT DC-Parks		6,400.0							6,400.0		
Total Debenture Financing		<u>13,040.0</u>							<u>13,040.0</u>		
Capital Levy		<u>1,460.0</u>						<u>100.0</u>	<u>1,360.0</u>		

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Corporate and Legislative Services																
Information Technology																
City Departmental Projects	3-3.01	9,052.7		647.7	125.6	522.1	345.4			176.8	1,005.0	1,005.0	800.0	800.0	6,600.0	6,600.0
Peterborough Technology Services - City Capital	3-3.02	5,301.1		351.1		351.1				351.1	450.0	450.0	500.0	500.0	4,000.0	4,000.0
Next Generation 9-1-1	3-3.03	1,000.0	150.0	300.0		300.0	300.0				300.0	300.0	250.0	250.0		
City Technology Projects and Capital Improvements	3-3.04	2,836.0		261.0		261.0				261.0	225.0	225.0	225.0	225.0	2,125.0	2,125.0
Total		18,189.9	150.0	1,559.9	125.6	1,434.3	645.4			788.9	1,980.0	1,980.0	1,775.0	1,775.0	12,725.0	12,725.0

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Corporate and Legislative Services**Budget Reference #:** 3-3.01**Division:** Information Technology - Information Technology**Project Name & Description**

City Departmental Projects

Commitments Made

None

Effects on Future Operating Budgets

Software licenses will generally incur an annual maintenance cost that is approximately 20% to 25% of the initial capital cost.

Project Detail, Justification & Reference Map

\$ 15,800 - Arenas, Kinsmen Network Upgrade and Wifi (593)
 \$ 20,800 - Arenas, Evnirude - Cell Phone Repeater (595)
 \$132,000 - Record Retention Compliance in City Applications (490)
 \$ 1,490 - eScribe Licenses for Agenda Meeting Management (599)
 \$ 16,200 - Closed Captioning for eScribe (602)
 \$ 8,200 - Finance, Orbidder Software Implementation (590)
 \$ 51,600 - Fire Radio Console Phase III (605)
 \$ 54,800 - FDM Mobile GPS (607)
 \$ 60,000 - EMS TIF Upgrade Phase II (628)
 \$ 76,065 - IT, Project Co-ordinator (586)
 \$ 24,600 - Standardized Reports - GIS Timesheets (486)
 \$ 44,400 - Water Information Management System (589)
 \$ 4,000 - 3D Modeling of Underground Infrastructure (601)
 \$ 50,000 - Legal, Dash Board Program (462)
 \$ 12,768 - Scanner Implementation Wellness Centre (472)
 \$ 46,600 - SS, Client Scheduler Solution (460)
 \$ 9,225 - SS, ChildCare Pro Communication Solution (465)
 \$ 19,800 - SS, Homelessness Agency Portal (600)
 Total \$647,748

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Corporate and Legislative Services										
Division	Information Technology - Information Technology										
Project Description	City Departmental Projects										
Project #	3-3.01										
Expenditures											
Contractual Services		9,052.7		647.7	1,005.0	800.0	825.0	825.0	4,125.0	825.0	
Direct Revenue											
Other Recoveries		75.6		75.6							
Transfer from Operations		50.0		50.0							
Total Direct Revenue		<u>125.6</u>		<u>125.6</u>							
Net Requirements		<u>8,927.1</u>		<u>522.1</u>	<u>1,005.0</u>	<u>800.0</u>	<u>825.0</u>	<u>825.0</u>	<u>4,125.0</u>	<u>825.0</u>	
To Be Financed From:											
Reserves											
Capital Levy Reserve		62.9		62.9							
Fire Dispatch Reserve		113.9		113.9							
Total Reserves		<u>176.8</u>		<u>176.8</u>							
Capital Levy		<u>8,750.4</u>		<u>345.4</u>	<u>1,005.0</u>	<u>800.0</u>	<u>825.0</u>	<u>825.0</u>	<u>4,125.0</u>	<u>825.0</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-3.02**Division:** Information Technology - Information Technology**Project Name & Description**

Peterborough Technology Services - City Capital Expenditures

Commitments Made

None

Effects on Future Operating Budgets

Peterborough Technology Services - City Capital Expenditures

Project Detail, Justification & Reference Map

Total Capital Projects and Improvements: \$351,140

This project consists of the following:

Lifecycle Management of Existing IT Assets at \$34,240 which includes the following critical IT infrastructure that is approaching end of life and requires replacement:

- Disaster Recovery Servers
- Core Data Switches
- Enterprise Backup Devices

New Initiatives and Enhancements to Existing IT Assets at \$247,260 that includes:

- Improvements to Network
- IT Security Enhancements
- Data Protection Enhancements

Unplanned Purchases at \$69,640 that includes:

- additional disk storage
- software licenses as a result of changes to licensing models and audits
- services for strategic initiatives

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Information Technology - Information Technology									
Project Description	Peterborough Technology Services - City Capital Expenditures									
Project #	3-3.02									
Expenditures										
Contractual Services		5,301.1		351.1	450.0	500.0	500.0	500.0	2,500.0	500.0
Net Requirements		<u>5,301.1</u>		<u>351.1</u>	<u>450.0</u>	<u>500.0</u>	<u>500.0</u>	<u>500.0</u>	<u>2,500.0</u>	<u>500.0</u>
To Be Financed From:										
Reserves										
Capital Levy Reserve		351.1		351.1						
Total Reserves		<u>351.1</u>		<u>351.1</u>						
Capital Levy		<u>4,950.0</u>			<u>450.0</u>	<u>500.0</u>	<u>500.0</u>	<u>500.0</u>	<u>2,500.0</u>	<u>500.0</u>

2021 - 2030 Capital Budget Justification

Tangible Capital Assets

Department: Corporate and Legislative Services

Budget Reference #: 3-3.03

Division: Information Technology - Information Technology

Project Name & Description

Next Generation 9-1-1

Commitments Made

None

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

The Canadian Radio-Television and Telecommunications Commission (CRTC) passed a decision in 2017 (Telecom Regulatory Policy CRTC 2017-182) that will change the delivery of 9-1-1 services introducing NG9-1-1 (Next Generation 9-1-1). All 9-1-1 answer agencies across Canada will have to be migrated onto the new platform no later than June of 2023.

The current system (Enhanced 9-1-1) cannot keep up with technology or public expectations. NG9-1-1 will allow real time text and multimedia such as images and video as well as communication from new devices such as telematics (e.g. OnStar), watches and wearables. Location data will also be enhanced.

The budget provides high level estimates to explore options that may be available from a technology perspective and position the City to adopt the new technology when it becomes available. CRTC is phasing in NG9-1-1 with the next phase scheduled for full completion by June 2023. The exact requirements and specifications have not been fully released, however, it is estimated this phase could cost up to \$1 million.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Corporate and Legislative Services										
Division	Information Technology - Information Technology										
Project Description	Next Generation 9-1-1										
Project #	3-3.03										
Expenditures											
Contractual Services		1,000.0	150.0	300.0	300.0	250.0					
Net Requirements		<u>1,000.0</u>	<u>150.0</u>	<u>300.0</u>	<u>300.0</u>	<u>250.0</u>					
To Be Financed From:											
Capital Levy		<u>1,000.0</u>	<u>150.0</u>	<u>300.0</u>	<u>300.0</u>	<u>250.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-3.04**Division:** Information Technology - Information Technology**Project Name & Description**

City Technology Projects and Capital Improvements

Commitments Made

None

Effects on Future Operating Budgets

Software licenses will incur an annual maintenance cost that is approximately 20% to 25% of the initial capital investment.

Project Detail, Justification & Reference Map

Machinery and Equipment/Computer Hardware and Software (Server replacements, Switches, Computers, Software)

Total: \$261,000

This project involves replacing core IT equipment for the City. Items include the following that are either coming to the end-of-life or are required for additional capacity:

- Network switches
- Servers
- Notebook computers
- Improvements to Network redundancy

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Information Technology - Information Technology									
Project Description	City Technology Projects and Capital Improvements									
Project #	3-3.04									
Expenditures										
Contractual Services		2,836.0		261.0	225.0	225.0	250.0	250.0	1,350.0	275.0
Net Requirements		<u>2,836.0</u>		<u>261.0</u>	<u>225.0</u>	<u>225.0</u>	<u>250.0</u>	<u>250.0</u>	<u>1,350.0</u>	<u>275.0</u>
To Be Financed From:										
Reserves										
Capital Levy Reserve		261.0		261.0						
Total Reserves		<u>261.0</u>		<u>261.0</u>						
Capital Levy		<u>2,575.0</u>			<u>225.0</u>	<u>225.0</u>	<u>250.0</u>	<u>250.0</u>	<u>1,350.0</u>	<u>275.0</u>

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Corporate and Legislative Services																
Other																
Enterprise Software Modernization	3-4.01	10,694.6	9,694.6	1,000.0		1,000.0	78.4		921.6							
Expanded Use of SAP	3-4.02	699.0		399.0		399.0	399.0				300.0	300.0				
Naval Association Property Acquisition	3-4.03	200.0		200.0		200.0				200.0						
Total		11,593.6	9,694.6	1,599.0		1,599.0	477.4		921.6	200.0	300.0	300.0				

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-4.01**Division:** Finance - Other**Project Name & Description**

Enterprise Software Modernization

Commitments Made

Through approval of the 2020 Capital Budget, Council pre-committed the 2021 \$1 Million funding for the project.

Effects on Future Operating Budgets

Updating the City's Enterprise software will require additional ongoing software maintenance fees that will be budgeted as part of the City's Information Services Operating Budget.

Project Detail, Justification & Reference Map

Specific computerized applications due for replacement include: Financial Enterprise Resource Planning software - The installation of Phase One of the SAP Implementation was completed in June 2020. Work on Phases Two and Three will begin in late 2020 and continue into 2021 as described in Report CLSFS20-047.

Property Taxation Software - The current product being used meets today's legislative requirements, but does not include any of the electronic customer service offerings that are expected in today's business environment. Implementation of a new solution is planned to begin in late 2021 after a review of potential options is completed.

Accessibility Considerations

All City websites that integrate web-based software will meet international website standards for accessibility known as WCAG 2.0 Level AA and be tablet and mobile friendly.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Other									
Project Description	Enterprise Software Modernization									
Project #	3-4.01									
Expenditures										
Contractual Services	10,694.6	9,694.6		1,000.0						
Direct Revenue										
Transfer from Operations	266.0	266.0								
Total Direct Revenue	<u>266.0</u>	<u>266.0</u>								
Net Requirements	<u>10,428.6</u>	<u>9,428.6</u>		<u>1,000.0</u>						
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	4,492.4	3,570.8		921.6						
Total Debenture Financing	<u>4,492.4</u>	<u>3,570.8</u>		<u>921.6</u>						
Reserves										
Capital Levy Reserve	3,194.3	3,194.3								
Waste Water Reserve Reserve	690.5	690.5								
Total Reserves	<u>3,884.8</u>	<u>3,884.8</u>								
Capital Levy	<u>2,051.4</u>	<u>1,973.0</u>		<u>78.4</u>						

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-4.02**Division:** Finance - Other**Project Name & Description**

Expanded Use of SAP

Commitments Made**Effects on Future Operating Budgets**

Updating the City's Enterprise software will require additional ongoing software maintenance fees that will be budgeted as part of the City's Information Services Operating Budget.

Project Detail, Justification & Reference Map

This project includes an upgrade of SAP (\$99,000) and implementation of the SAP Budgeting Solution (\$300,000) in 2021 and Workforce Rostering (\$300,000) for 2022.

The City's enterprise software applications need to be updated on a regular basis to ensure the technology stays current. SAP is currently running on a version that was current over two years ago. The upgrade project will bring SAP to the current version of the software.

The SAP Budgeting Solution will be implemented to replace the City's current budgeting solution, which has been in place for nearly ten years. Implementing the SAP Budgeting Solution allow the City's budget and financial information to reside in one software application, making it easier to work with both data sets at once.

Workforce Rostering software is used to manage employee work schedules. While a couple business areas use their own software to do this today, there are a number of business areas that still do this manually. A corporate wide rostering solution integrated to SAP Payroll would allow all business areas to take advantage of software to help automate the scheduling process and reduce the number of software systems that require support.

Accessibility Considerations

All City websites that integrate web-based software will meet international website standards for accessibility known as WCAG 2.0 Level AA and be tablet and mobile friendly.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Other									
Project Description	Expanded Use of SAP									
Project #	3-4.02									
Expenditures										
Contractual Services		699.0		399.0	300.0					
Net Requirements		<u>699.0</u>		<u>399.0</u>	<u>300.0</u>					
To Be Financed From:										
Capital Levy		<u>699.0</u>		<u>399.0</u>	<u>300.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-4.03**Division:** Finance - Other**Project Name & Description**

Naval Association Property Acquisition

Commitments Made

Council approved Report CLSFS20-034 dated July 20, 2020 which recommended that the 2021 budget include a pre-commitment of \$200,000 to complete the funding required for the purchase of the Peterborough Naval Association property at 24 Whitla Street.

Effects on Future Operating Budgets

Capital and operating costs will be incurred in future budgets for the maintenance and repair of the property.

Project Detail, Justification & Reference Map

Through Report PLPD13-056, dated July 29, 2013, Council entered into an Agreement for purchase of the property at a price of \$900,000 with a 10-year closing date of August 31, 2023. To date, amounts totaling \$700,000 have been provided through previous Budgets. The 2021 provision of \$200,000 will complete the required funding.

Correspondence from the Peterborough Naval Association provided notice to Council that the Naval Association wishes to close the purchase transaction early. It is anticipated that the transaction will close in November 2020.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Other									
Project Description	Naval Association Property Acquisition									
Project #	3-4.03									
Expenditures										
Contractual Services		200.0		200.0						
Net Requirements		<u>200.0</u>		<u>200.0</u>						
To Be Financed From:										
Reserves										
Capital Levy Reserve		<u>200.0</u>		<u>200.0</u>						
Total Reserves		<u>200.0</u>		<u>200.0</u>						

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Corporate and Legislative Services																
Other																
Humane Society - New Animal Care Centre Capital Campaign	3-4.04	1,686.0	1,386.0	300.0		300.0	300.0									
Fairhaven Capital Funding	3-4.05	1,377.3	645.6	234.3		234.3	234.3				243.8	243.8	253.6	253.6		
Eastern Ont. Cell Gap and Capacity Extension	3-4.06	563.7	140.9	140.9		140.9	140.9				140.9	140.9	140.9	140.9		
Canadian Canoe Museum - Capital Build	3-4.07	4,000.0	500.0								580.0	580.0	580.0	580.0	2,340.0	2,340.0
Development Charge Study Update	3-4.08	315.0	190.0								50.0	50.0			75.0	75.0
Total		7,941.9	2,862.6	675.2		675.2	675.2				1,014.7	1,014.7	974.5	974.5	2,415.0	2,415.0

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-4.04**Division:** Finance - Other**Project Name & Description**

Humane Society - New Animal Care Centre Capital Campaign

Commitments Made

Through Report OCS16-002 dated May 30, 2016, Council committed to support the Humane Society's capital campaign over five years.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

Based on Report OCS16-002 dated May 30, 2016, and a presentation by the Humane Society, Council committed to support the capital campaign over five annual installments. The motions read as follows:

- b) That the City of Peterborough approve a \$1.5 million capital campaign contribution to the Peterborough Humane Society, to be paid in five annual installments over a five-year period from 2017 to 2021, in support of the \$9.5 million Peterborough Animal Care Centre at 1999 Technology Drive;
- c) That the City of Peterborough directly pay the Development Charges for the Peterborough Humane Society Animal Care Centre at 1999 Technology Drive in the amount of approximately \$186,000, and that the payment be made in two annual installments of approximately \$93,000 commencing in 2017;

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to	2031 to	
		Total	Pre-2021	2021	2022	2023	2024	2025	2030	2045	
Department	Corporate and Legislative Services										
Division	Finance - Other										
Project Description	Humane Society - New Animal Care Centre Capital Campaign										
Project #	3-4.04										
Expenditures											
Contractual Services		1,686.0	1,386.0	300.0							
Net Requirements		<u>1,686.0</u>	<u>1,386.0</u>	<u>300.0</u>							
To Be Financed From:											
Reserves											
Casino Gaming Reserve		<u>700.0</u>	<u>700.0</u>								
Total Reserves		<u>700.0</u>	<u>700.0</u>								
Capital Levy		<u>986.0</u>	<u>686.0</u>	<u>300.0</u>							

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-4.05**Division:** Finance - Other**Project Name & Description**

Fairhaven Capital Funding

Commitments Made

As part of report CPFS12-062 dated September 4, 2012, Council resolved that beginning with the 2013 Capital Budget, an annual provision would be included in the Draft Capital Budget to support Fairhaven's on-going capital program.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

Fairhaven has limited revenue sources and the Ministry of Health and Long Term Care does not provide funding for capital projects, equipment or the building. Capital repairs had been funded from a Capital Reserve, however, that was unsustainable.

A capital plan and ongoing funding from the City and County started in 2013. The amount paid by the City for 2021 will be \$234,300. This renewed support will allow Fairhaven to update and repair various capital items, some of which are as follows:

Replace intra-Home Communication Infrastructure, Flooring, Computer Equipment Replacement, Anti-Roll Mattresses and Beds, Driveway replacement, Disinfecting/Cleaning equipment for toileting supplies.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Corporate and Legislative Services										
Division	Finance - Other										
Project Description	Fairhaven Capital Funding										
Project #	3-4.05										
Expenditures											
Contractual Services	1,377.3	645.6	234.3	243.8	253.6						
Net Requirements		1,377.3	645.6	234.3	243.8	253.6					
To Be Financed From:											
Capital Levy	1,377.3	645.6	234.3	243.8	253.6						

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-4.06**Division:** Finance - Other**Project Name & Description**

Eastern Ont. Cell Gap and Capacity Expansion

Commitments Made

On May 13, 2019 Report CLSFS19-020 recommendation was approved to include a request for a Municipal Contribution in the Draft 2020 Capital Budget for consideration by the Finance Committee.

Effects on Future Operating Budgets

A four-year commitment has been requested by the Eastern Ontario Regional Network for this project. The City's annual commitment, if approved by Council, will be \$140,900 for the years 2020 through 2023 for a total of \$563,700.

Project Detail, Justification & Reference Map

Eastern Ont. Cell and Capacity Expansion is a project to first fix the "holes" in the Eastern Ontario Regional Network (EORN) Eastern Ontario Broadband project. Once the network has established the required coverage, the capacity of the network will be analysed to address increasing usage. Financing of the project is derived from a one-third allocation of the cost to Provincial government, Federal Government and Private/Municipal sectors. The City's portion of the Private/Municipal sector commitment will be \$563,700 over four years.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Other									
Project Description	Eastern Ont. Cell Gap and Capacity Extension									
Project #	3-4.06									
Expenditures										
Contractual Services	563.7	140.9	140.9	140.9	140.9					
Net Requirements	563.7	140.9	140.9	140.9	140.9	140.9				
To Be Financed From:										
Capital Levy	563.7	140.9	140.9	140.9	140.9	140.9				

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: Corporate and Legislative Services

Budget Reference #: 3-4.07

Division: Finance - Other

Project Name & Description

Canadian Canoe Museum - Capital Build

Commitments Made

Based upon Report CSD17-030 - Canadian Canoe Museum Funding Request and Pre-Commitment of Future Capital Budgets, Council approved a motion that a total of \$4.0 million in capital funding for the Canadian Canoe Museum for its proposed new facility, be approved, with the City contributions paid in increments over eight years, beginning in 2019.

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

Established in 1997, the Canadian Canoe Museum (Museum) is home to the world's largest and most significant collection of canoes, kayaks and paddled watercraft. The Museum is looking to move to a new 90,000 square-foot facility.

The Museum has had success in securing funding from the provincial and federal levels of government and the County of Peterborough. On February 24, 2017, the Honourable Maryam Monsef, Minister of Status of Women and MP for Peterborough-Kawartha, on behalf of the Honourable Mélanie Joly, Minister of Canadian Heritage, announced more than \$1.4 million in cultural infrastructure funding from the Government of Canada and in April 2019 the Honourable Pablo Rodriguez, Minister of Canadian Heritage and Multiculturalism announced a further \$10 million in support from the same fund. On May 26, 2017, MPP Jeff Leal, on behalf of the Province, announced a funding commitment of \$9.0 million toward the project. In March 2018, the County of Peterborough committed \$500,000 to support the new museum.

The previously anticipated contribution for 2021 has been shifted to 2022 to more appropriately align the funding with commencement of construction. Future years have been adjusted accordingly.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Other									
Project Description	Canadian Canoe Museum - Capital Build									
Project #	3-4.07									
Expenditures										
Contractual Services		4,000.0	500.0		580.0	580.0	580.0	580.0	1,180.0	
Net Requirements		<u>4,000.0</u>	<u>500.0</u>		<u>580.0</u>	<u>580.0</u>	<u>580.0</u>	<u>580.0</u>	<u>1,180.0</u>	
To Be Financed From:										
Reserves										
Casino Gaming Reserve		500.0	500.0							
Total Reserves		<u>500.0</u>	<u>500.0</u>							
Capital Levy		<u>3,500.0</u>			<u>580.0</u>	<u>580.0</u>	<u>580.0</u>	<u>580.0</u>	<u>1,180.0</u>	

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Corporate and Legislative Services**Budget Reference #:** 3-4.08**Division:** Finance - Other**Project Name & Description**

Development Charge Study Update

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

Development Charges are levied in accordance with various Development Charge by-laws that establish various rates.

The current rate for the Growth Areas is in effect until July 31, 2022. The City-wide rates are in effect until December 31, 2024. On September 18, 2020 the remaining amendments that were made by Bill 108, the More Homes, More Choice Act 2019, to the Development Charges Act and Planning Act were proclaimed. In addition, new regulation under the Planning Act and technical changes to regulations under the Planning Act, Development Charges Act and Building Code Act finalized the framework for development charges, community benefits charges (CBC) and parkland. The City will have two years to transition to the new regime. The regulation softened the changes to development charges whereby many soft services still fall under development charges as opposed to the community benefit charges.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Corporate and Legislative Services									
Division	Finance - Other									
Project Description	Development Charge Study Update									
Project #	3-4.08									
Expenditures										
Contractual Services	315.0	190.0		50.0	75.0					
Net Requirements	<u>315.0</u>	<u>190.0</u>		<u>50.0</u>	<u>75.0</u>					
To Be Financed From:										
Development Charges										
DC - Gen Gov't	<u>238.5</u>	<u>126.0</u>		<u>45.0</u>	<u>67.5</u>					
Total Development Charges	<u>238.5</u>	<u>126.0</u>		<u>45.0</u>	<u>67.5</u>					
Reserves										
Development Charges Res	45.0	45.0								
Capital Levy Reserve	<u>5.0</u>	<u>5.0</u>								
Total Reserves	<u>50.0</u>	<u>50.0</u>								
Capital Levy	<u>26.5</u>	<u>14.0</u>		<u>5.0</u>	<u>7.5</u>					

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Summary																
Planning	5-1	17,516.7	2,410.0	1,427.3		1,427.3	920.2		137.0	370.0	3,754.5	3,754.5	1,525.0	1,525.0	8,400.0	8,400.0
Growth Areas	5-2	6,387.2	2,900.0	800.0		800.0		800.0			645.0	645.0			2,042.2	1,722.2
Industrial Parks	5-3	12,523.7	8,973.7	3,550.0		3,550.0	250.0		3,300.0							
Airport	5-4	35,275.3	5,000.3	445.0		445.0	395.0		50.0		10,685.0	10,685.0	5,345.0	5,345.0	13,800.0	13,800.0
Flood Reduction Master Plan Projects	5-5	342,168.4	50,817.8	8,515.6	3,000.0	5,515.6			3,979.5	1,536.1	2,195.0	2,195.0	10,115.0	7,015.0	270,525.0	255,025.0
Geomatics/Mapping	5-6	2,425.6	1,480.6	50.0		50.0	50.0				200.0	200.0	105.0	105.0	590.0	590.0
Infrastructure Planning Adm	5-7	585.0		65.0		65.0				65.0	65.0	65.0	65.0	65.0	390.0	390.0
Arterial Streets	5-8	354,064.5	31,459.0	5,812.5	112.5	5,700.0	90.0		4,630.8	979.2	9,840.0	9,750.0	20,559.0	20,385.0	286,394.0	267,739.8
Bridges	5-9	42,721.2	2,951.2	1,700.0		1,700.0			1,700.0		7,300.0	7,300.0	1,250.0	1,250.0	29,520.0	29,520.0
Collector and Local Streets	5-10	102,086.8	8,616.0	5,545.8		5,545.8	100.0		375.0	5,070.8	10,525.0	10,525.0	10,000.0	10,000.0	67,400.0	66,400.0
Sidewalks	5-11	11,630.0	1,000.0	400.0		400.0	50.0		350.0		1,480.0	1,480.0	1,450.0	1,450.0	7,300.0	7,300.0
Sanitary Sewers	5-12	25,400.0	2,400.0	1,225.0		1,225.0			814.2	410.8	7,775.0	7,775.0	2,450.0	2,450.0	11,550.0	11,550.0
Storm Sewers	5-13	18,185.0	3,350.0	1,375.0		1,375.0			1,375.0		1,405.0	1,405.0	1,580.0	1,580.0	10,475.0	10,475.0
Public Works	5-14	37,420.4	1,644.9	2,613.7		2,613.7	250.0		1,272.9	1,090.8	3,334.2	3,334.2	3,215.2	3,215.2	26,612.4	26,612.4
Parking	5-15	5,591.3	965.0	1,670.3		1,670.3			1,500.0	170.3	1,615.8	1,615.8	121.6	121.6	1,218.7	1,218.7
Transit	5-16	112,607.3	9,216.5	4,742.1	2,512.6	2,229.4	264.9	134.5	1,830.1		17,750.6	5,471.3	15,374.6	4,105.0	65,523.6	53,081.9
Traffic and Transportation	5-17	12,070.3	2,196.2	789.1		789.1	653.9			135.2	2,506.9	1,506.9	2,180.5	1,680.5	4,397.7	4,397.7
Transportation Planning	5-18	900.0	150.0								750.0	750.0				
Environmental Services	5-19	57,598.9	2,100.0	2,210.0		2,210.0			2,210.0		10,070.0	10,070.0	19,040.0	19,040.0	24,178.9	24,178.9

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Waste Management	5-20	36,614.5	21,735.1	5,940.0	2,120.0	3,820.0				3,820.0	2,175.0	1,937.5	3,314.4	2,541.9	3,450.0	1,725.0
Total		1,233,772.1	159,366.2	48,876.3	7,745.1	41,131.1	3,023.9	934.5	23,524.5	13,648.1	94,072.0	80,465.1	97,690.2	81,874.2	833,767.4	784,126.6

City of Peterborough
Other Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Summary																
Planning	5-1	10,796.5	5,300.0	162.8		162.8	162.8				1,133.7	1,133.7	1,400.0	1,400.0	2,800.0	2,800.0
Growth Areas	5-2	400.0	225.0								125.0	125.0			50.0	50.0
Industrial Parks	5-3	806.4	694.4	112.0		112.0	112.0									
Airport	5-4	1,453.9	953.9	100.0		100.0	100.0				300.0	300.0	100.0	100.0		
Flood Reduction Master Plan Projects	5-5	42,944.3	26,379.3	2,990.0		2,990.0				2,990.0	3,085.0	3,085.0	2,835.0	2,835.0	7,655.0	7,655.0
Geomatics/Mapping	5-6	1,534.2	629.2	150.0		150.0	150.0				340.0	340.0	100.0	100.0	315.0	315.0
Infrastructure Planning Adm	5-7	7,204.4	3,924.4	980.0		980.0	300.0		200.0	480.0	800.0	800.0	350.0	350.0	1,150.0	1,150.0
Bridges	5-9	330.0	90.0								50.0	50.0			190.0	190.0
Public Works	5-14	7,500.3	300.3	400.0		400.0	400.0				500.0	500.0	700.0	700.0	5,600.0	5,600.0
Transit	5-16	250.0		250.0		250.0				250.0						
Transportation Planning	5-18	109.8	72.5	37.3		37.3	37.3									
Environmental Services	5-19	18,612.0	6,162.0	250.0		250.0	250.0				250.0	250.0	250.0	250.0	11,700.0	7,700.0
Administration	5-21	162.5	130.0	32.5		32.5				32.5						
Total		92,104.3	44,861.0	5,464.6		5,464.6	1,512.1		200.0	3,752.5	6,583.7	6,583.7	5,735.0	5,735.0	29,460.0	25,460.0

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Planning																
Property Acquisitions and Improvements	5-1.01	12,000.0		1,200.0		1,200.0	830.0			370.0	1,200.0	1,200.0	1,200.0	1,200.0	8,400.0	8,400.0
Parkland Development Assist	5-1.02	681.8	375.0	152.3		152.3	15.2		137.0		154.5	154.5				
Central Area Master Plan Implementation Phase	5-1.03	2,435.0	1,635.0	75.0		75.0	75.0				400.0	400.0	325.0	325.0		
Otonabee River Trail - Del Cray Park to Little Lake Cemetery	5-1.04	2,400.0	400.0								2,000.0	2,000.0				
Total		17,516.7	2,410.0	1,427.3		1,427.3	920.2		137.0	370.0	3,754.5	3,754.5	1,525.0	1,525.0	8,400.0	8,400.0

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-1.01

Division: Planning - Planning

Project Name & Description

Property Acquisitions and Improvements

Commitments Made

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

The General Property Reserve, funded through the Operating Budget, anticipates property purchases in the current budget year that support strategic municipal acquisitions or that implement public policy directions of the City. The General Property Reserve is also used to make improvements to municipal property, such as building demolitions, that may be required to improve value and/or minimize risk. Examples of property acquisitions may be to support Airport Development, to support downtown vitality, employment land opportunities or to support City Business/Service needs.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Planning - Planning										
Project Description	Property Acquisitions and Improvements										
Project #	5-1.01										
Expenditures											
Contractual Services		12,000.0		1,200.0	1,200.0	1,200.0	1,200.0	1,200.0		6,000.0	
Net Requirements		<u>12,000.0</u>		<u>1,200.0</u>	<u>1,200.0</u>	<u>1,200.0</u>	<u>1,200.0</u>	<u>1,200.0</u>		<u>6,000.0</u>	
To Be Financed From:											
Reserves											
Property Acquisition Reserve		3,700.0		370.0	370.0	370.0	370.0	370.0		1,850.0	
Total Reserves		<u>3,700.0</u>		<u>370.0</u>	<u>370.0</u>	<u>370.0</u>	<u>370.0</u>	<u>370.0</u>		<u>1,850.0</u>	
Capital Levy		<u>8,300.0</u>		<u>830.0</u>	<u>830.0</u>	<u>830.0</u>	<u>830.0</u>	<u>830.0</u>		<u>4,150.0</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-1.02**Division:** Planning - Planning**Project Name & Description**

Parkland Development Assistance - a program that began in 2013 and provided developers the opportunity to design and construct parks within their subdivisions to be ready for public use, upon first occupancies, within any given phase of development.

The delivery of the Program was modified in 2019, with the City taking the lead role in the delivery of the parks.

Commitments Made

Three park developments remain or were funded under this program.

Heritage Park Subdivision - 2020 (2021 construction), Parklands (Mason Homes) Subdivision - 2021, Willowcreek Subdivision - 2022.

Effects on Future Operating Budgets

Additional infrastructure will require additional maintenance.

Project Detail, Justification & Reference Map

Traditionally, developers are required to prepare parkland to a base level only (grading, leveling, top soiling, seeding). Parks were then left in this state until such time as neighbourhood residents approached the City to partner in the development of park amenities through the Community Assistance capital budget. The original intent of the Community Assistance program was to support upgrades to existing parkland, rather than establishing amenities within new subdivision parkland. The new Parkland Development Assistance project was required to see the construction of 3 unfinished subdivision parks. Community Services shall take the lead in managing the neighbourhood consultation and Planning will develop park needs/designs. Public works will then deliver the final product and manage the construction of the facility based on guidance provided by Community Services. In parallel to this project, the Community Services Department undertook the Municipal Parks and open Space Study (CSRS20-0030. This holistic approach to recreational parks will address future park development in new subdivisions as well.

Accessibility Considerations

All park amenities will be constructed in accordance with the requirements of the Accessible Built Environment Standards, under the Accessibility for Ontarians with Disabilities Act.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Planning - Planning										
Project Description	Parkland Development Assist										
Project #	5-1.02										
Expenditures											
Contractual Services		681.8	375.0	152.3	154.5						
Direct Revenue											
Developer Contributions		45.0	45.0								
Total Direct Revenue		<u>45.0</u>	<u>45.0</u>								
Net Requirements				<u>636.8</u>	<u>330.0</u>	<u>152.3</u>	<u>154.5</u>				
To Be Financed From:											
Debentures											
DEBT DC-Recreation		137.0		137.0							
Total Debenture Financing		<u>137.0</u>		<u>137.0</u>							
Development Charges											
DC Parks		414.1	275.0		139.1						
Total Development Charges		<u>414.1</u>	<u>275.0</u>		<u>139.1</u>						
Capital Levy				<u>85.7</u>	<u>55.0</u>	<u>15.2</u>	<u>15.5</u>				

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-1.03**Division:** Planning - Planning**Project Name & Description**

Central Area Master Plan Implementation Phase

Commitments Made

The Official Plan directs that the City pursue a comprehensive program of downtown enhancement. The Central Area Master Plan (CAMP) affirms this public policy objective.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

The CAMP includes a strategy that identifies the need for adequate financial resources for programs to ensure the downtown maintains a public image of quality and cleanliness. Renewal of aging streetscape accessories and other general maintenance upgrades are required on periodic basis to ensure this image is upheld. For 2021, the allocation will contribute to addressing the impacts of changes due to COVID 19.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to 2030	2031 to 2045
		Total	Pre-2021	2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Planning - Planning									
Project Description	Central Area Master Plan Implementation Phase									
Project #	5-1.03									
Expenditures										
Contractual Services		2,435.0	1,635.0	75.0	400.0	325.0				
Total Direct Revenue		<u>2,435.0</u>	<u>1,635.0</u>	<u>75.0</u>	<u>400.0</u>	<u>325.0</u>				
Direct Revenue										
Contribution from related project		477.2	477.2							
Total Direct Revenue		<u>477.2</u>	<u>477.2</u>							
Net Requirements		<u>1,957.8</u>	<u>1,157.8</u>	<u>75.0</u>	<u>400.0</u>	<u>325.0</u>				
To Be Financed From:										
Reserves										
Capital Levy Reserve		375.0	375.0							
Total Reserves		<u>375.0</u>	<u>375.0</u>							
Capital Levy		<u>1,582.8</u>	<u>782.8</u>	<u>75.0</u>	<u>400.0</u>	<u>325.0</u>				

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-1.04

Division: Planning - Planning

Climate Mitigation: Yes

Project Name & Description

Otonabee River Trail – Del Cray Park to Little Lake Cemetery

Commitments Made

This project represents the completion of a Council approved public policy and capital planning priority, as part of the Little Lake Master Plan.

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

A detailed topographic survey and geotechnical investigation was completed in 2011. A Class EA, which included a preliminary design of the Otonabee River Trail route from Del Cray Park, along Crescent Street to Little Lake Cemetery was completed in 2015. The completion of a trail program surrounding Little Lake has been a long standing recreation facility objective of the City's Recreation Master Plan. The Otonabee River Trail is an integral component of the Little Lake Master Plan, received by City Council in March 2010.

\$120,000 was secured in 2015 to construct a first phase of the trail through Del Cray Park, however, this phase was not completed awaiting the detailed design and engineering, which was started in 2020 and will be completed in 2021.

A preliminary construction cost estimate for the continuation of the Otonabee River Trail from The Point in Del Cray Park to the Little Lake Cemetery, consistent with the Little Lake Master Plan, is \$2.0 million. This project construction has been deferred until 2022 to better align with other projects in the area including proposed private developments, Central Area Secondary Plans and the Del Cray Park Master Plan.

Accessibility Considerations

All trail development will be a minimum width of 3.0 metres meeting the City design standard for trail development.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to 2030	2031 to 2045
		Total	Pre-2021	2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Planning - Planning									
Project Description	Otonabee River Trail - Del Crary Park to Little Lake Cemetery									
Project #	5-1.04									
Expenditures										
Contractual Services	2,400.0	400.0								
Total Direct Revenue	<u>2,400.0</u>	<u>400.0</u>	<u>2,000.0</u>							
Direct Revenue										
Contractual Services	75.0	75.0								
Total Direct Revenue	<u>75.0</u>	<u>75.0</u>								
Net Requirements	<u>2,325.0</u>	<u>325.0</u>	<u>2,000.0</u>							
To Be Financed From:										
Reserves										
Federal Gas Tax	270.0	270.0								
Total Reserves	<u>270.0</u>	<u>270.0</u>								
Capital Levy	<u>2,055.0</u>	<u>55.0</u>	<u>2,000.0</u>							

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Planning																
Zoning By-law Update	5-1.05	496.5	200.0	112.8		112.8	112.8				183.7	183.7				
Secondary Plans	5-1.06	1,000.0	100.0	50.0		50.0	50.0				250.0	250.0	200.0	200.0	400.0	400.0
Central Area CIP Implementation	5-1.07	9,300.0	5,000.0								700.0	700.0	1,200.0	1,200.0	2,400.0	2,400.0
Total		10,796.5	5,300.0	162.8		162.8	162.8				1,133.7	1,133.7	1,400.0	1,400.0	2,800.0	2,800.0

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-1.05**Division:** Planning - Planning**Project Name & Description**

Zoning By-law Update

Commitments Made

The update of the Official Plan has resulted in the need to update the Zoning By-law to implement the new policy direction.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

With the approval of the new Official Plan planned for the first quarter of 2021, the Zoning By law must also be updated to implement the new policy direction for the municipality.

This update will include a review of the By law and recommend changes and additions based on an operational review, as well as the new policy direction of the Official Plan.

Given the magnitude of this project, it cannot be completed in house with current staffing levels. A Capital budget of \$200,000 was established in 2019 - \$100,000 for a contract planner and \$100,000 for year 1 costs associated with the Zoning By Law Update. This work involved research and best practice analysis. For 2021 a budget of \$50,000 is proposed for a contract planner resource. It is expected the contract position would continue through 2022. Future funding will support more complex work to develop mapping and final documents. This project will start in 2021, pending provincial approval of the new Official Plan.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Planning - Planning									
Project Description	Zoning By-law Update									
Project #	5-1.05									
Expenditures										
Contractual Services	496.5200.0			112.8	183.7					
Total Direct Revenue	496.5200.0			112.8	183.7					
Net Requirements	496.5200.0			112.8	183.7					
To Be Financed From:										
Reserves										
Infrastructure Planning Services Capital Reserve	200.0200.0									
Total Reserves	200.0200.0									
Capital Levy	296.5			112.8	183.7					

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-1.06**Division:** Planning - Planning**Project Name & Description**

Official Plan Secondary Plans

Commitments Made

The Official Plan Update identified the need to create Secondary Plans for Strategic Growth Areas, including the Central Area and important nodes and corridors, to satisfy growth management requirements of the Growth Plan for the Greater Golden Horseshoe.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

As part of the Official Plan Update, a design charrette was conducted in June 2018 to generate design ideas and concepts for the Central Area and identified nodes and corridors throughout the city. The goal was to consider these areas as prime areas for intensification and create a vision for their potential redevelopment.

The new Official Plan identifies these nodes and corridors as Strategic Growth Areas and calls for Secondary Plans to be created for these important growth areas which will provide a framework for how these areas will redevelop. Urban design is a critical element in the planning of these areas.

Completion of secondary plans for all of these areas is expected to be a 5 year project with the focus of the 2021 project being the Central Area with a \$100,000 budget. Additional requests of \$200,000 annually will be made over the next four years to complete secondary plans for the remaining intensification areas including the Lansdowne Street, Clonsilla Avenue and Chemong Road corridors. Project will start in 2021.

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Planning - Planning									
Project Description	Secondary Plans									
Project #	5-1.06									
Expenditures										
Contractual Services		1,000.0	100.0	50.0	250.0	200.0	200.0	200.0		
Net Requirements		<u>1,000.0</u>	<u>100.0</u>	<u>50.0</u>	<u>250.0</u>	<u>200.0</u>	<u>200.0</u>	<u>200.0</u>		
To Be Financed From:										
Capital Levy		<u>1,000.0</u>	<u>100.0</u>	<u>50.0</u>	<u>250.0</u>	<u>200.0</u>	<u>200.0</u>	<u>200.0</u>		

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-1.07

Division: Planning - Planning

Project Name & Description

Central Area Community Improvement Plan (CIP) Implementation

Commitments Made

The Official Plan directs that the City pursue a comprehensive program of downtown enhancement. The Central Area Master Plan affirms this public policy objective.

The Central Area Master Plan was completed in May 2009, as reported to Council in Report PLPD09 - 026, dated May 11, 2009. The plan identified 22 strategies to promote the ongoing health and vitality of the Central Area.

One of the strategies of the Master Plan was to adopt a Community Improvement Plan (CIP) for the Central Area. In August 2011, the Central Area CIP was approved by Council (By-law 11-115, Report PLPD11-062, and amended by By-law 17-066, Report PLPD17 - 023) establishing a suite of financial incentives to assist property owners to rehabilitate and redevelop downtown properties. The purpose of the CIP is to ensure the long term economic, social and cultural vitality of the Central Area providing financial incentives to assist in the enhancement and revitalization of the downtown area.

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

The Façade Improvement, Municipal Incentive and Residential Conversion and Intensification Grant Programs are the three CIP Programs that require capital funding.

Facade Improvement - \$100,000

Municipal Incentive - \$100,000

Residential Conversion & Intensification - \$500,000

Costs to convert non residential space to residential are greater than first anticipated given current Building Code and accessibility standards. These costs significantly affect larger conversion projects that could dramatically increase the residential unit supply in the Central Area. This Program could significantly impact the uptake in additional units in the Central Area which will assist the City in meeting its intensification targets for the Central Area established by the Province.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Planning - Planning									
Project Description	Central Area CIP Implementation									
Project #	5-1.07									
Expenditures										
Contractual Services	9,300.0	5,000.0								
Net Requirements	9,300.0	5,000.0		700.0	1,200.0	1,200.0	1,200.0			
To Be Financed From:										
Reserves										
Capital Levy Reserve	1,624.0	1,624.0								
Casino Gaming Reserve	1,000.0	1,000.0								
Total Reserves	2,624.0	2,624.0								
Capital Levy	6,676.0	2,376.0		700.0	1,200.0	1,200.0	1,200.0			

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Growth Areas																
Lily Lake - Centralized Stormwater Mgm't Facilities	5-2.01	4,243.2	1,400.0	800.0		800.0		800.0			645.0	645.0			1,398.2	1,398.2
Jackson (Loggerhead Marsh) – Centralized Stormwater Facilities	5-2.02	2,144.0	1,500.0												644.0	324.0
Total		6,387.2	2,900.0	800.0		800.0		800.0			645.0	645.0			2,042.2	1,722.2

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-2.01**Division:** Planning - Growth Areas**Climate Adaptation:** Yes**Project Name & Description**

Lily Lake Growth Area - Centralized Stormwater Management Facilities

Commitments Made

This budget allocation represents the anticipated Development Charge contribution for the construction of centralized stormwater management facilities to support growth. Enactment of the 2017 Development Charges By-law is a City commitment to fund the construction of these facilities to accommodate growth.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

The Background Study identified the following Development Charges funding requirements for this specific Growth Area:

Stormwater Management Facilities - \$4,243,200

The first phases of subdivision development in the Lily Lake Growth Area were delayed in 2017 and 2018. The 2018 budget allocated \$600,000 towards the centralized stormwater management facilities necessary to support this development. Construction started in 2019 and will continue into 2021. \$800,000 is requested for 2021 to account for the required stormwater management facilities.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Planning - Growth Areas									
Project Description	Lily Lake - Centralized Stormwater Mgm't Facilities									
Project #	5-2.01									
Expenditures										
Contractual Services		4,243.2	1,400.0	800.0	645.0		1,398.2			
Net Requirements		<u>4,243.2</u>	<u>1,400.0</u>	<u>800.0</u>	<u>645.0</u>		<u>1,398.2</u>			
To Be Financed From:										
Development Charges										
DC - Lily Lake		4,243.2	1,400.0	800.0	645.0		1,398.2			
Total Development Charges		<u>4,243.2</u>	<u>1,400.0</u>	<u>800.0</u>	<u>645.0</u>		<u>1,398.2</u>			

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-2.02**Division:** Planning - Growth Areas**Climate Adaptation:** Yes**Project Name & Description**

Jackson Area (Loggerhead Marsh) – Centralized Stormwater Facilities

Commitments Made

This budget allocation represents the anticipated Development Charge contribution for the construction of centralized stormwater management facilities to support growth. Enactment of the 2017 Development Charges By-law is a City commitment to fund the construction of these facilities to accommodate growth in this Planning Area.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

The Background Study identified the following Development Charges funding requirements for this specific Growth Area:

\$2,144,000 Stormwater Management Facilities

Comprised of:

\$ 864,000 Development Charge Contribution

\$1,280,000 Developer contribution (Loggerhead Marsh Local Services Agreement)

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to 2030	2031 to 2045					
		Total	Pre-2021	2021	2022	2023	2024	2025							
Department	Infrastructure and Planning Services														
Division	Planning - Growth Areas														
Project Description	Jackson (Loggerhead Marsh) – Centralized Stormwater Facilities														
Project #	5-2.02														
Expenditures															
Contractual Services	2,144.0	1,500.0											644.0		
Direct Revenue															
Recoveries	1,280.0	960.0											320.0		
Total Direct Revenue	<u>1,280.0</u>	<u>960.0</u>											<u>320.0</u>		
Net Requirements	<u>864.0</u>	<u>540.0</u>				<u>324.0</u>									
To Be Financed From:															
Development Charges															
DC - Jackson	684.0	360.0				324.0									
Total Development Charges	<u>684.0</u>	<u>360.0</u>				<u>324.0</u>									
Reserves															
Development Charges Res	180.0	180.0													
Total Reserves	<u>180.0</u>	<u>180.0</u>													

City of Peterborough
Other Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Growth Areas																
Liftlock Planning Studies	5-2.03	150.0	100.0								50.0	50.0				
Carnegie West Growth Area – Planning Studies	5-2.04	100.0	75.0								25.0	25.0				
Coldsprings Growth Area - Planning Studies	5-2.05	150.0	50.0								50.0	50.0			50.0	50.0
Total		400.0	225.0								125.0	125.0			50.0	50.0

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-2.03**Division:** Planning - Growth Areas**Project Name & Description**

Liftlock Growth Area - Planning Studies

Commitments Made

This budget allocation represents the anticipated Development Charge contribution for the completion of future planning studies to support growth. Enactment of the 2017 Development Charges By-law is a City commitment to fund the necessary studies to support development and accommodate growth in this Planning Area.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

As development proceeds in the Liftlock Growth Area, it is anticipated that there will be the need for technical studies to support future growth and address issues related to new development projects. These studies could relate to issues such as environmental considerations, traffic impacts and/or servicing constraints, and could include City-led studies or peer reviews of developer-initiated studies.

The Background Study identified a \$150,000 Development Charges funding requirement for studies for this specific Growth Area.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Planning - Growth Areas									
Project Description	Liftlock Planning Studies									
Project #	5-2.03									
Expenditures										
Contractual Services		150.0	100.0		50.0					
Net Requirements		<u>150.0</u>	<u>100.0</u>		<u>50.0</u>					
To Be Financed From:										
Development Charges										
DC - Liftlock		110.0	75.0		35.0					
Total Development Charges		<u>110.0</u>	<u>75.0</u>		<u>35.0</u>					
Reserves										
Development Charges Res		25.0	25.0							
Total Reserves		<u>25.0</u>	<u>25.0</u>							
Capital Levy		<u>15.0</u>			<u>15.0</u>					

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-2.04**Division:** Planning - Growth Areas**Project Name & Description**

Carnegie West Growth Area – Planning Studies

Commitments Made

This budget allocation represents the anticipated Development Charge contribution for the completion of future planning studies to support growth. Enactment of the 2017 Development Charges By-law is a City commitment to fund the construction of these facilities to accommodate growth in this Planning Area.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

As development proceeds in the Carnegie West Growth Area, it is anticipated that there will be the need for technical studies to support future growth and address issues related to new development projects. These studies could relate to issues such as environmental considerations, traffic impacts and/or servicing constraints and could include City-led studies or peer reviews of developer initiated studies.

The Background Study identified the following Development Charges funding requirements for this specific Growth Area.

Studies - \$ 100,000

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Planning - Growth Areas										
Project Description	Carnegie West Growth Area – Planning Studies										
Project #	5-2.04										
Expenditures											
Contractual Services		100.0	75.0		25.0						
Net Requirements		<u>100.0</u>	<u>75.0</u>		<u>25.0</u>						
To Be Financed From:											
Development Charges											
DC - Carnegie West		<u>15.0</u>			<u>15.0</u>						
Total Development Charges		<u>15.0</u>			<u>15.0</u>						
Reserves											
Development Charges Res		<u>75.0</u>	<u>75.0</u>								
Total Reserves		<u>75.0</u>	<u>75.0</u>								
Capital Levy		<u>10.0</u>			<u>10.0</u>						

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-2.05**Division:** Planning - Growth Areas**Project Name & Description**

Coldsprings Growth Area - Planning Studies

Commitments Made

This budget allocation represents the anticipated Development Charge contribution for the completion of future planning studies to support growth. Enactment of the 2017 Development Charges By-law is a City commitment to fund the necessary studies to support development and accommodate growth in this Planning Area.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

As development proceeds in the Coldsprings Growth Area, it is anticipated that there will be the need for technical studies to support future growth and address issues related to new development projects. These studies could relate to issues such as environmental considerations, traffic impacts and/or servicing constraints and could include City-led studies or peer reviews of developer-initiated studies.

The Background Study identified the following Development Charges funding requirements for this specific Growth Area:

Studies - \$150,000

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Planning - Growth Areas									
Project Description	Coldsprings Growth Area - Planning Studies									
Project #	5-2.05									
Expenditures										
Contractual Services		150.0	50.0		50.0		50.0			
Net Requirements		<u>150.0</u>	<u>50.0</u>		<u>50.0</u>		<u>50.0</u>			
To Be Financed From:										
Development Charges										
DC -Coldsprings		140.0	50.0		45.0		45.0			
Total Development Charges		<u>140.0</u>	<u>50.0</u>		<u>45.0</u>		<u>45.0</u>			
Capital Levy		<u>10.0</u>			<u>5.0</u>		<u>5.0</u>			

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Infrastructure and Planning Services																	
Industrial Parks																	
Cleantech Commons	5-3.01	11,773.7	8,473.7	3,300.0		3,300.0			3,300.0								
Major Bennett Industrial Park	5-3.02	750.0	500.0	250.0		250.0	250.0										
Total		12,523.7	8,973.7	3,550.0		3,550.0	250.0		3,300.0								

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services**Budget Reference #:** 5-3.01**Division:** Planning - Industrial Parks**Climate Adaptation:** Yes**Project Name & Description**

Cleantech Commons

Commitments Made

In May of 2020 and via IPSENG 20-028, \$2,300,000 of the \$3,300,000 in the 2021 Capital budget was pre-committed for the internal servicing of the Cleantech Commons technology/business park.

Effects on Future Operating Budgets

This is a new subdivision that will have additional streets, water and sewer, and stormwater infrastructure to be maintained.

Project Detail, Justification & Reference Map

Trent University has reserved approximately 85 acres along the north side of Pioneer Road for the establishment of a science-based research park. Building upon the success of the DNA Cluster initiative, the new Cleantech Commons is poised to become a major focus of employment growth in the City of Peterborough. This development is to science and technology employment as Major Bennett Industrial Park is to manufacturing and transportation employment. The development of the Commons will require ongoing municipal investment to ensure that adequate municipal services are in place to support future employment growth.

There are two distinct components to the project. An external services program commenced construction in the spring 2017. The external servicing program and Pioneer Road upgrades are being handled by Infrastructure and Planning under a separate budget.

The second component is an internal site servicing program to ensure a supply of serviced building lots as demand warrants. Investors will construct buildings on land secured by a long-term ground lease. Internal site servicing costs will be recovered over time through ground lease payments. An initial phase budget of approximately \$3 million was secured in prior years for this purpose. In 2018, an additional \$2.4 million to support internal servicing, lot grading and common elements within the research park was approved and the 2021 request is for an additional \$3.3 million. \$2.3 million of the \$3.3 million 2021 request was pre-committed in 2020 as Phase 1 and 2 construction was proceeding.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Planning - Industrial Parks									
Project Description	Cleantech Commons									
Project #	5-3.01									
Expenditures										
Contractual Services	11,773.7	8,473.7		3,300.0						
Direct Revenue										
Transfer from Operations	29.7	29.7								
Total Direct Revenue	29.7	29.7								
Net Requirements	11,744.0	8,444.0		3,300.0						
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	1,000.0	1,000.0								
Deb Revenue - Lease Supported	10,284.0	6,984.0		3,300.0						
Total Debenture Financing	11,284.0	7,984.0		3,300.0						
Reserves										
Provincial Gas Tax	250.0	250.0								
Total Reserves	250.0	250.0								
Capital Levy	210.0	210.0								

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-3.02**Division:** Planning - Industrial Parks**Project Name & Description**

Major Bennett Industrial Park

Commitments Made

The City is the region's provider of serviced industrial land. Major Bennett Industrial Park is nearing full build-out and this project ensures the remaining lands are developable and made ready for sale. This project implements a previously approved fish habitat compensation project resulting from a harmful alteration, disruption and/or destruction (HADD) - the reconstruction of the Airport Road/Sir Sandford Fleming Drive intersection.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

There is an existing drainage channel on the east side of Airport Road that is designated as fish habitat. Due to previous work in the Major Bennett Industrial Park involving the extension of Fisher Drive, and the reconstruction of the Airport Road/Sir Sandford Fleming Drive intersection, a compensation project for the loss of fish habitat was approved. This included the realignment and naturalization of the drainage channel along the east side of Airport Road, along with two other projects near Harper Park. The work, however, did not proceed until various upstream projects were completed at the request of the Department of Fisheries and Oceans.

The property north of Fisher Drive, and east of Airport Road is one of the last large parcels of industrial land available in the City. The completion of the fish habitat compensation project, which will include a grading plan, as well as resolving floodplain and wetland issues on the property, are necessary before the property can be sold and developed.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Planning - Industrial Parks									
Project Description	Major Bennett Industrial Park									
Project #	5-3.02									
Expenditures										
Contractual Services		750.0	500.0	250.0						
Net Requirements		<u>750.0</u>	<u>500.0</u>	<u>250.0</u>						
To Be Financed From:										
Capital Levy		<u>750.0</u>	<u>500.0</u>	<u>250.0</u>						

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Infrastructure and Planning Services Industrial Parks																	
Cleantech Commons	5-3.03	806.4	694.4	112.0		112.0	112.0										
Total		806.4	694.4	112.0		112.0	112.0										

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-3.03**Division:** Planning - Industrial Parks**Project Name & Description**

Cleantech Commons

Commitments Made**Effects on Future Operating Budgets**

This is a new business park that will have additional streets, water, sanitary and storm water infrastructure to be maintained.

Project Detail, Justification & Reference Map

The City has made significant investments in serviced employment land at Cleantech Commons. This allocation represents the City's contribution to the Executive Director position for Cleantech Commons. The focus of this position is business strategy and tenant recruitment to make the business park successful. A university-based research park is more than a collection of businesses - it requires concentrated effort to establish a culture of innovation and creativity between tenants, the University and the broader community.

The Executive Director position fulfills the interests of the University as well as Cleantech Commons and therefore, 50% of the salary is paid by the City.

Funding is also provided for other contractual services related to the design, construction, marketing and start-up operations of Cleantech Commons, including supplemental project management, ongoing community engagement and establishment of policies and lease arrangements.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to	2031 to	
		Total	Pre-2021	2021	2022	2023	2024	2025	2030	2045	
Department	Infrastructure and Planning Services										
Division	Planning - Industrial Parks										
Project Description	Cleantech Commons										
Project #	5-3.03										
Expenditures											
Contractual Services		806.4	694.4	112.0							
Total Direct Revenue		<u>806.4</u>	<u>694.4</u>	<u>112.0</u>							
Direct Revenue											
Recoveries		120.8	120.8								
Total Direct Revenue		<u>120.8</u>	<u>120.8</u>								
Net Requirements		<u>685.6</u>	<u>573.6</u>	<u>112.0</u>							
To Be Financed From:											
Capital Levy		<u>685.6</u>	<u>573.6</u>	<u>112.0</u>							

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Airport																
Commercial and General Aviation Lot Prep	5-4.01	1,925.0	350.0	225.0		225.0	225.0				225.0	225.0	225.0	225.0	900.0	900.0
Emergency Access Road Development	5-4.02	70.0		70.0		70.0	70.0									
Airport Land Development	5-4.03	60.0		60.0		60.0	60.0									
Internal Road Development	5-4.04	350.0	300.0	50.0		50.0			50.0							
Airport LED Lighting	5-4.05	260.0		40.0		40.0	40.0				100.0	100.0	120.0	120.0		
Airport Water & Sewer Upgrade	5-4.06	14,675.3	3,875.3								7,400.0	7,400.0			3,400.0	3,400.0
Industrial Park East of Airport Rd North Development	5-4.07	12,400.0									2,400.0	2,400.0	5,000.0	5,000.0	5,000.0	5,000.0
Aircraft Run-up Area	5-4.08	325.0	25.0								300.0	300.0				
General Aviation Expansion	5-4.09	400.0	300.0								100.0	100.0				
Meeting Regulatory Change	5-4.10	250.0	150.0								100.0	100.0				
Bravo Taxiway Extension	5-4.11	4,530.0									30.0	30.0			4,500.0	4,500.0
Ecological Study for Future Development	5-4.12	30.0									30.0	30.0				
Total		35,275.3	5,000.3	445.0		445.0	395.0		50.0		10,685.0	10,685.0	5,345.0	5,345.0	13,800.0	13,800.0

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-4.01

Division: Airport - Airport

Project Name & Description

Commercial and General Aviation Lot Prep

Commitments Made

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

The Airport has approximately 30 acres of serviced land for industrial/commercial use and a further 3 acres for general aviation hangars. These parcels of land will be leased according to user requirements as has been the long-standing practice.

At the time of building construction, there are specific requirements for new tenant building lots that are the responsibility of the Airport and that cannot be reasonably anticipated as a component of the lot development. Such items include: isolated soil remediation costs, minor water and sewer extensions, hydro, transformers, drainage adjustments.

This capital project provides a funding source to cover Airport responsibilities associated with tenant specific requirements.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Commercial and General Aviation Lot Prep									
Project #	5-4.01									
Expenditures										
Contractual Services		1,925.0	350.0	225.0	225.0	225.0	225.0	225.0	450.0	
Net Requirements		<u>1,925.0</u>	<u>350.0</u>	<u>225.0</u>	<u>225.0</u>	<u>225.0</u>	<u>225.0</u>	<u>225.0</u>	<u>450.0</u>	
To Be Financed From:										
Capital Levy		<u>1,925.0</u>	<u>350.0</u>	<u>225.0</u>	<u>225.0</u>	<u>225.0</u>	<u>225.0</u>	<u>225.0</u>	<u>450.0</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-4.02**Division:** Airport - Airport**Project Name & Description**

Emergency Access Road Development

Commitments Made**Effects on Future Operating Budgets**

Seasonal maintenance of the emergency access road would see a small increase in operational costs.

Project Detail, Justification & Reference Map

An area off the west end of the main runway on Airport property cannot be accessed by emergency vehicles if required. At this time the access would be with a small all terrain vehicle only. Should an aircraft accident occur in that area that requires the fire crash tender to respond or other emergency services, it would not be possible to reach the aircraft. There has been an accident in this area in the past and fortunately there were no injuries or fire.

This project will be completed in 2021 and will consist of construction of a gravel service road, to access the area directly west of the main runway.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Emergency Access Road Development									
Project #	5-4.02									
Expenditures										
Contractual Services		70.0		70.0						
Net Requirements		<u>70.0</u>		<u>70.0</u>						
To Be Financed From:										
Capital Levy		<u>70.0</u>		<u>70.0</u>						

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-4.03

Division: Airport - Airport

Project Name & Description

Airport Land Development

Commitments Made

Effects on Future Operating Budgets

This project will lead to increased operating revenues.

Project Detail, Justification & Reference Map

The City has purchased lands around the Airport to protect the Airport obstacle limitation surface as well as protection from conflicting land uses in the future. There is over 100 acres of land to be developed to produce revenue.

The Airport Land Development project would be used to plan the development of the lands.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Airport Land Development									
Project #	5-4.03									
Expenditures										
Contractual Services		60.0		60.0						
Net Requirements		<u>60.0</u>		<u>60.0</u>						
To Be Financed From:										
Capital Levy		<u>60.0</u>		<u>60.0</u>						

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-4.04

Division: Airport - Airport

Project Name & Description

Internal Road Development

Commitments Made

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

A portion of the road leading to Airport commercial businesses has been conveyed to the City from the County and is now an internal road. The road requires modification, resurfacing and landscaping to provide a proper entrance to the businesses.

In 2020, funds were used to produce engineered design drawings and a more detailed estimate for the project requiring additional funds. In 2021, the requested funds will be used to complete the rehabilitation work.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Internal Road Development									
Project #	5-4.04									
Expenditures										
Contractual Services	350.0	300.0	50.0							
Net Requirements	350.0	300.0	50.0							
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	300.0	250.0	50.0							
Total Debenture Financing	300.0	250.0	50.0							
Capital Levy	50.0	50.0								

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-4.05**Division:** Airport - Airport**Climate Mitigation:** Yes**Project Name & Description**

Airport LED Lighting

Commitments Made**Effects on Future Operating Budgets**

Adding LED lighting in the commercial area will increase the hydro operating expense and the runway LED upgrade will reduce operating expenses through a reduction in electricity use and replacement bulbs.

Project Detail, Justification & Reference Map

There are two LED lighting projects to be completed at the Airport to include LED lighting in the Commercial Area and upgrading runway lights to LED.

During the major airport expansion in 2010, the new entrance to the Airport was lit for safety of Airport users. The Commercial Area on the east side of the Airport was not lit. This area is home to many businesses with both vehicle and foot traffic between facilities. The businesses have varying hours with many using the airport in the evening and early morning hours when it is dark.

This project will be used to design and construct lighting throughout the Commercial Area at the Airport to be completed over two years, 2021 and 2022.

The existing runway lights are incandescent. A calculation for the return on investment was completed for replacing the light fixtures and transformers to LED. The return on investment would be 10.6 years. The estimated reduction in emissions is 139.5 metric tons of CO₂.

This project to be delivered in 2023, will upgrade existing runway lighting fixtures and transformers to LED and would require engineering, contract administration and contracted installation.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Airport LED Lighting									
Project #	5-4.05									
Expenditures										
Contractual Services		260.0		40.0	100.0	120.0				
Net Requirements		<u>260.0</u>		<u>40.0</u>	<u>100.0</u>	<u>120.0</u>				
To Be Financed From:										
Capital Levy		<u>260.0</u>		<u>40.0</u>	<u>100.0</u>	<u>120.0</u>				

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-4.06

Division: Airport - Airport

Project Name & Description

Airport Water and Sewer Servicing Upgrade

Commitments Made

City Council, at its meeting of March 19, 2018, authorized an amendment to the Airport Water and Sanitary Sewer Service Class EA (Report USDIR18-001 dated February 26, 2018).

Effects on Future Operating Budgets

The connection fee for new tenants will increase to offset servicing capital costs over the term of the lease.

Project Detail, Justification & Reference Map

In 2002, servicing was extended to the Airport to support business growth. The water usage dictated the size of service installed and, at the time, was considered to be oversized. The sanitary pumps were also installed based on the requirements with estimated additional capacity for the future.

In 2010, the Airport underwent a \$28.6 million expansion which lead to an increase in the number of people on site, from 150 in 2002 to over 600 in 2018. The increase can be attributed to business expansion and the addition of the Seneca College School of Aviation.

In 2018, consultants were engaged to complete the Environmental Assessment and design to increase the water capacity to meet fire fighting requirements. In 2019 a water reservoir was constructed to meet fire regulation. A tender was issued to complete the engineering for the water and sewer upgrade in 2020. Funds have been budgeted for the construction of the upgraded water and sewer services in 2022. Funds for additional fire regulation requirements have been budgeted for 2024.

In order to position the City's Airport to capitalize on potential opportunities of businesses looking to locate on site, investment is required to pro-actively and properly prepare the site to support business needs.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Airport Water & Sewer Upgrade									
Project #	5-4.06									
Expenditures										
Contractual Services		14,675.3	3,875.3		7,400.0		3,400.0			
Net Requirements		<u>14,675.3</u>	<u>3,875.3</u>		<u>7,400.0</u>		<u>3,400.0</u>			
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		1,189.1	1,189.1							
DEBT DC-RoadsRelated		11,320.0	520.0		7,400.0		3,400.0			
Total Debenture Financing		<u>12,509.1</u>	<u>1,709.1</u>		<u>7,400.0</u>		<u>3,400.0</u>			
Reserves										
Federal Gas Tax		866.7	866.7							
Waste Water Reserve Reserve		1,105.3	1,105.3							
Total Reserves		<u>1,972.0</u>	<u>1,972.0</u>							
Capital Levy		<u>194.2</u>	<u>194.2</u>							

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-4.07**Division:** Airport - Airport**Project Name & Description**

Airport Industrial Park east of Airport Road - North Development

Commitments Made**Effects on Future Operating Budgets**

The Airport Industrial Park lots will be leased to aerospace tenants, requiring large facilities, increasing operating revenues.

Project Detail, Justification & Reference Map

In 2015 a Functional Design Report was completed for the Peterborough Airport Industrial Park east of Airport Road. All environmental studies were completed and provided to the appropriate agencies. The south west lots and taxiway were constructed in 2015 and 2016. The majority of the prepared lot was leased for the construction of a new facility in 2019.

In order to be ready for future large tenants, funds have been budgeted for the development of the northern 34 acres east of Airport Road. In 2022, a tender will be issued for the engineered design for the lot development. Construction of the lots will commence in 2023 to be completed in 2024.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Industrial Park East of Airport Rd North Development									
Project #	5-4.07									
Expenditures										
Contractual Services		12,400.0			2,400.0	5,000.0	5,000.0			
Net Requirements		<u>12,400.0</u>			<u>2,400.0</u>	<u>5,000.0</u>	<u>5,000.0</u>			
To Be Financed From:										
Debentures										
DEBT DC-RoadsRelated		12,400.0			2,400.0	5,000.0	5,000.0			
Total Debenture Financing		<u>12,400.0</u>			<u>2,400.0</u>	<u>5,000.0</u>	<u>5,000.0</u>			

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-4.08**Division:** Airport - Airport**Project Name & Description**

Aircraft Run-up Area

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

Run-up is the series of last-minute checks performed by pilots on an aircraft prior to take-off. Run-ups are also performed by aircraft mechanics to test engines and diagnose engine problems.

Aircraft require a location to complete high-powered run-ups that will not conflict with runway use and Airport infrastructure. There are specific requirements for aircraft including facing into the wind and safety of Airport operations. The larger jet aircraft produce a significant jet blast that can be quite damaging. This project will review existing infrastructure to identify areas for safe run-ups and to identify the long-term plan for a permanent run-up area.

A consultant was engaged to complete this study in consultation with Airport staff in 2020.

This project will require design and construction of an aircraft run-up area based on the study.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Aircraft Run-up Area									
Project #	5-4.08									
Expenditures										
Contractual Services		325.0	25.0		300.0					
Net Requirements		<u>325.0</u>	<u>25.0</u>		<u>300.0</u>					
To Be Financed From:										
Capital Levy		<u>325.0</u>	<u>25.0</u>		<u>300.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-4.09**Division:** Airport - Airport**Project Name & Description**

General Aviation Expansion

Commitments Made

City Council, at its meeting of February 20, 2018 in considering Report PLAIR18-002, approved the updated Airport Master Plan.

Effects on Future Operating Budgets

New development at the Airport will generate new land lease revenues. The addition of new infrastructure will require an adjustment to the Operations contract for summer and winter property maintenance.

Project Detail, Justification & Reference Map

Development of the General Aviation Area commenced in 2007 with lot preparation, Taxiway Charlie and Apron III installation as part of the Major Airport Expansion Project in 2010. This area, containing approximately 30 hangars, has reached capacity with the exception of two small lots.

In response to market demand, an extension of the General Aviation Area commenced in 2017 on the east side of Apron III opening up three new lots for aircraft hangars which included drainage, internal road construction, services installation, fencing and lot fill. This project is being completed in phases with Phase 1 completed in 2017. Phase 2 is to start in 2022.

This capital project will fund lot preparation for four lots, an access road, parking lots, installation of servicing, hydro installation and fencing.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	General Aviation Expansion									
Project #	5-4.09									
Expenditures										
Contractual Services		400.0	300.0		100.0					
Net Requirements		<u>400.0</u>	<u>300.0</u>		<u>100.0</u>					
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		<u>250.0</u>	<u>150.0</u>		<u>100.0</u>					
Total Debenture Financing		<u>250.0</u>	<u>150.0</u>		<u>100.0</u>					
Capital Levy		<u>150.0</u>	<u>150.0</u>							

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-4.10**Division:** Airport - Airport**Project Name & Description**

Meeting Regulatory Change

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

New Transport Canada Aerodrome Standards and Recommended Practices, TP312 5th Edition, was published in July 2015. Transport Canada has had a phased in approach of the new regulations.

In 2020, Airport staff continued to produce a case to be presented to Transport Canada to reduce the decision height for the instrument approaches. The instrument approaches are used for pilots to locate the runway in poor weather conditions. The lower the decision height the more likely an aircraft is able to land in poor weather conditions. Upon Transport Canada approval of the level of service improvement for the instrument approaches, changes to airside elements will be required, due to the new regulations.

Changes required to meet TP312 5th Edition include, extension of the safety area around the runway, paint markings, runway/taxiway edge light colours and other airside changes as applicable. Some additional signage, lighting and design of instrument procedures will also be required. This project included the removal of the Runway 27 displacement which was completed in 2019.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Meeting Regulatory Change									
Project #	5-4.10									
Expenditures										
Contractual Services		250.0	150.0		100.0					
Net Requirements		<u>250.0</u>	<u>150.0</u>		<u>100.0</u>					
To Be Financed From:										
Capital Levy		<u>250.0</u>	<u>150.0</u>		<u>100.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-4.11**Division:** Airport - Airport**Project Name & Description**

Bravo Taxiway Extension

Commitments Made**Effects on Future Operating Budgets**

This project will increase the operations contract and grounds expenses due to an increase in infrastructure to maintain.

Project Detail, Justification & Reference Map

The 7,000 ft main runway currently has an adjacent taxiway covering half of the length, from the east end to the midpoint of the runway. When aircraft have to use the west end of the runway (due to wind direction) to depart, they taxi on the runway to reach their takeoff position. This will become more of a safety concern as traffic increases. There are multiple aircraft in the circuit lined up for landing as aircraft on the ground are trying to use the runway to get to the west end to depart which could cause a conflict.

The extension of Bravo Taxiway is part of the short term developments in the 2017 Strategic Development Plan.

This project requires an ecological study to meet environmental requirements prior to construction. The ecological study will be completed in 2022 with the engineering, contract administration and construction to take place in 2025.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Bravo Taxiway Extension									
Project #	5-4.11									
Expenditures										
Contractual Services		4,530.0			30.0			4,500.0		
Net Requirements		<u>4,530.0</u>			<u>30.0</u>			<u>4,500.0</u>		
To Be Financed From:										
Capital Levy		<u>4,530.0</u>			<u>30.0</u>			<u>4,500.0</u>		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-4.12**Division:** Airport - Airport**Climate Adaptation:** Yes**Project Name & Description**

Ecological Study for Future Development

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

The 7,000 ft main runway currently has an adjacent taxiway covering half of the length, from the east end to the midpoint of the runway. When aircraft have to use the west end of the runway (due to wind direction) to depart, they taxi on the runway to reach their takeoff position. This will become more of a safety concern as traffic increases. There are multiple aircraft in the circuit lined up for landing as aircraft on the ground are trying to use the runway to get to the west end to depart which can cause conflicts.

In order to extend the taxiway in the future an ecological study has to be completed to meet environmental requirements prior to construction. The studies can span over two years to complete all of the required elements. This project would require hiring an environmental consultant to have the ecological study commencing in 2022 to prepare for future construction.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Ecological Study for Future Development									
Project #	5-4.12									
Expenditures										
Contractual Services		30.0			30.0					
Net Requirements		<u>30.0</u>			<u>30.0</u>					
To Be Financed From:										
Capital Levy		<u>30.0</u>			<u>30.0</u>					

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Airport																
Obstacle Limitation Surface Tree Cutting	5-4.13	853.9	553.9	100.0		100.0	100.0				100.0	100.0	100.0	100.0		
Federal Zoning Process	5-4.14	600.0	400.0								200.0	200.0				
Total		1,453.9	953.9	100.0		100.0	100.0				300.0	300.0	100.0	100.0		

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-4.13**Division:** Airport - Airport**Project Name & Description**

Obstacle Limitation Surface Tree Cutting

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

The Airport is required through Transport Canada regulations to maintain the Obstacle Limitation Surface (OLS) which is an obstacle free area around the runways for safety of aircraft arriving and departing.

There are properties with trees nearing the protected surface which will require extensive tree cutting. These trees are located on City owned land on the south side of the Airport, and on properties covered by obstacle protection easements and agreements surrounding the runways.

This project will require tree removal and maintenance, by the vendor of record, on the required properties in order to maintain the OLS.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Obstacle Limitation Surface Tree Cutting									
Project #	5-4.13									
Expenditures										
Contractual Services		853.9	553.9	100.0	100.0	100.0				
Net Requirements		853.9	553.9	100.0	100.0	100.0				
To Be Financed From:										
Capital Levy		853.9	553.9	100.0	100.0	100.0				

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-4.14**Division:** Airport - Airport**Project Name & Description**

Federal Zoning Process

Commitments Made**Effects on Future Operating Budgets**

The 2013 Amended Federal Zoning capital budget of \$200,000 was transferred to the Seneca College Airside Improvements Capital Project budget, pursuant to Council Approval of Report PLPD13 - 037. The request to replenish this fund will be deferred to the 2022 Capital Budget.

Project Detail, Justification & Reference Map

The Peterborough Airport Zoning Regulations are federal zoning controls developed to protect the area surrounding the Airport from obstacles and specific land uses that could conflict with aviation safety. When federal regulations are compromised, airport certification could be at risk. Federal zoning supersedes all local zoning by-laws and controls activities on private properties.

Zoning regulations are in place for the pre-expanded Airport. Amended zoning is required to protect the extended runway.

This project will take multiple years to complete and is conducted under the direction of Transport Canada. It is also a public process and concludes with the federal zoning regulations being applied to the legal description of all affected properties. The federal zoning obligates land owners, within the affected area, to respect the obstacle limitation surface and not introduce land uses which may be deemed to compromise the safe operation of the Airport, thereby relieving the Airport of the cost to protect air safety on lands which are not owned by the Airport.

In order to complete the process, fees will be required by Transport Canada and to engage the services of an aviation consultant and legal expenses.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Airport - Airport									
Project Description	Federal Zoning Process									
Project #	5-4.14									
Expenditures										
Contractual Services		600.0	400.0		200.0					
Total Direct Revenue		<u>600.0</u>	<u>400.0</u>		<u>200.0</u>					
Net Requirements		<u>600.0</u>	<u>400.0</u>		<u>200.0</u>					
To Be Financed From:										
Reserves										
Capital Levy Reserve		400.0	200.0		200.0					
Total Reserves		<u>400.0</u>	<u>200.0</u>		<u>200.0</u>					
Capital Levy		<u>200.0</u>	<u>200.0</u>							

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Flood Reduction Master Plan Projects																
Bethune Street Diversion Shared Funding	5-5.01	48,267.6	44,077.0	3,615.6		3,615.6			2,079.5	1,536.1	190.0	190.0	190.0	190.0	195.0	195.0
Downtown Flood Mitigation Project (Water St./Simcoe St.)	5-5.02	49,500.0		3,000.0	3,000.0								7,750.0	4,650.0	38,750.0	23,250.0
Bethune St Diversion City Funded	5-5.03	12,235.8	3,585.8	1,900.0		1,900.0			1,900.0		1,980.0	1,980.0	1,500.0	1,500.0	3,270.0	3,270.0
IIMP Infrastructure Information	5-5.04	150.0	50.0								25.0	25.0	25.0	25.0	50.0	50.0
Charlotte St Upgrades - SE Jackson 100 yr pipe	5-5.05	900.0											450.0	450.0	450.0	450.0
Curtis Creek Watershed Improvements	5-5.06	27,860.0	1,730.0										200.0	200.0	25,930.0	25,930.0
South-East Jackson Watershed Upgrades	5-5.07	76,700.0													76,700.0	76,700.0
Byersville Watershed Improvements	5-5.08	40,820.0													40,820.0	40,820.0
Brookdale Watershed Improvements	5-5.09	32,025.0	975.0												31,050.0	31,050.0
North-East Jackson Watershed Improvements	5-5.10	27,100.0	400.0												26,700.0	26,700.0
Meade Watershed Improvements	5-5.11	9,390.0													9,390.0	9,390.0
Riverview Watershed Improvements	5-5.12	9,260.0													9,260.0	9,260.0
Thompson Watershed Improvements	5-5.13	4,380.0													4,380.0	4,380.0

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Byersville - Clonsilla Parkway Storm Basin	5-5.14	3,000.0													3,000.0	3,000.0
South-West Jackson Watershed Improvements	5-5.15	490.0													490.0	490.0
North-West Jackson Watershed Improvements	5-5.16	90.0													90.0	90.0
Total		342,168.4	50,817.8	8,515.6	3,000.0	5,515.6			3,979.5	1,536.1	2,195.0	2,195.0	10,115.0	7,015.0	270,525.0	255,025.0

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.01

Division: Engineering - Flood Reduction Master Plan Projects

Project Name & Description

Bethune Street Diversion Shared Funding

Commitments Made

The Jackson Creek Flood Reduction Master Plan was approved by Council on April 12, 2010 through Report USEC10-007. Report USEC10-009 entitled "Flood Reduction Master Plan Progress Report and Watershed EA Capital Projects" adopted by Council on June 14, 2010 prioritized the watershed capital projects. The Jackson Creek Flow Diversion project is number two on this list.

The City has received provincial and federal funding for the project. 2019 Funding requests are eligible costs per the Funding Agreement.

Council, through various Reports (USEC15-022, PLPL18-010, IPSEC18-024) have awarded the Design and Contract Admin to AECOM and have extended the construction phases to include the Charlotte Street East Project and the Downtown Gateway Project at Park Street and Charlotte Street.

\$3,615,500 was pre-committed in the 2021 Capital Budget with the approval of Report IPSENG20-007.

Effects on Future Operating Budgets

An increase in future operating budgets, due to increased infrastructure quantity, is anticipated.

Project Detail, Justification & Reference Map

This project is the shared portion of the overall project. The total project is approximately \$29.1 million with cost shared one-third between each of the federal, provincial and municipal governments. The combined federal and provincial funding is provided up to a maximum of \$15.9 million. The remaining \$14 million is the City's cost. Works eligible for the shared funding such as piped infrastructure, roads, etc. are covered under this project.

The project improves the road condition along an arterial street and recognizes that the CNR removed its tracks from the street in 1990 and that a formal rehabilitation is required. The 11-metre width provides for two traffic lanes and one parking lane. A bike lane requirement is noted in the 2011 Transportation Master Plan.

In conjunction with the roadworks, the existing Bethune Street sanitary trunk sewer identified in the Area Specific DC Bylaw, will be upgraded and Jackson Creek Diversion flood reduction measures, approved by Council in 2014, will be undertaken. The Central Area Master Plan also calls for a walking/cycling network connecting the Trans Canada Trail with Crawford Trail.

This project is identified in the Citywide DC By-law as a road project. Future years' funding requests will be required for potential cleanup of the old rail bed. Due to the magnitude of the project, it is expected that construction will occur over multiple years.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	Bethune Street Diversion Shared Funding									
Project #	5-5.01									
Expenditures										
Contractual Services	48,267.6	44,077.0		3,615.6	190.0	190.0	195.0			
Direct Revenue										
Provincial grant	7,970.2	7,970.2								
Federal Grant	7,970.2	7,970.2								
Total Direct Revenue	15,940.3	15,940.3								
Net Requirements	32,327.3	28,136.7		3,615.6	190.0	190.0	195.0			
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	2,079.5			2,079.5						
Deb Revenue - Development Chgs	887.0	887.0								
DEBT DC-RoadsRelated	1,957.0	1,957.0								
DEBT DC-Carnegie Est	1,681.4	1,681.4								
DEBT DC-Chemong East	1,125.8	1,125.8								
DEBT DC-Chemong West	2,153.2	2,153.2								
DEBT DC-CarnegieWest	902.9	902.9								
Total Debenture Financing	10,786.8	8,707.3		2,079.5						
Development Charges										
DC - Roads Related	885.9	820.9					65.0			
DC - Carnegie East	240.3	240.3								
DC - Chemong East	246.9	246.9								
DC - Chemong West	386.2	386.2								
DC - Carnegie West	126.6	126.6								
Total Development Charges	1,885.9	1,820.9					65.0			
Reserves										
Casino Gaming Reserve	1,590.0	1,590.0								
FRMP - Sewer Surcharge Reserve	5,310.0	5,310.0								
FRMP - Capital Levy Reserve	8,768.7	7,384.2		1,066.1	126.7	126.7	65.0			
Waste Water Reserve Reserve	2,983.4	2,321.8		470.0	63.3	63.3	65.0			
Total Reserves	18,652.1	16,606.0		1,536.1	190.0	190.0	130.0			
Capital Levy	1,002.5	1,002.5								

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services**Budget Reference #:** 5-5.02**Division:** Infrastructure Planning - Flood Reduction Master Plan Projects**Climate Adaptation:** Yes**Project Name & Description**

Downtown Flood Mitigation Project (Water St./Simcoe St.)

Commitments Made

The Jackson Creek Flood Reduction Master Plan was approved by Council on April 12, 2010, through Report USEC10-007.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

Effects on Future Operating Budgets

An increase in future operating budgets, due to increased sewer size and quantity, is anticipated.

A decrease in future operating budgets, due to reduced maintenance requirements on renewed infrastructure addressed through this project, is anticipated.

Project Detail, Justification & Reference Map

The Downtown Peterborough (Simcoe Street / Water Street) Flood Mitigation Project is in a major commercial and residential area, prone to flooding during high rainfall events.

The Project addresses several priorities to protect the community as outlined in the Flood Reduction Master Plan, the Sanitary Sewer Inflow & Infiltration Master Plan and Climate Adaptation priorities.

The project installs 100-yr storm sewer infrastructure along Simcoe Street and Water Street with an outlet to the Otonabee River, eliminates significant cross-connections between the storm and sanitary sewer systems to reduce inflows at the Wastewater Treatment Plant, and replaces an aging sanitary forcemain along Simcoe Street.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastructure Planning - Flood Reduction Master Plan Projects									
Project Description	Downtown Flood Mitigation Project (Water St./Simcoe St.)									
Project #	5-5.02									
Expenditures										
Contractual Services	49,500.0			3,000.0		7,750.0	7,750.0	7,750.0	23,250.0	
Direct Revenue										
Federal Grant	21,600.0			3,000.0		3,100.0	3,100.0	3,100.0	9,300.0	
Total Direct Revenue	21,600.0			3,000.0		3,100.0	3,100.0	3,100.0	9,300.0	
Net Requirements	27,900.0					4,650.0	4,650.0	4,650.0	13,950.0	
To Be Financed From:										
Debentures										
Debenture - WWRF	5,600.0					950.0	930.0	930.0	2,790.0	
Total Debenture Financing	5,600.0					950.0	930.0	930.0	2,790.0	
Reserves										
Federal Gas Tax	2,800.0					450.0	470.0	470.0	1,410.0	
FRMP - Sewer Surcharge Reserve	7,500.0					1,250.0	1,250.0	1,250.0	3,750.0	
FRMP - Capital Levy Reserve	12,000.0					2,000.0	2,000.0	2,000.0	6,000.0	
Total Reserves	22,300.0					3,700.0	3,720.0	3,720.0	11,160.0	

2021 - 2030 Capital Budget Justification

Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.03

Division: Engineering - Flood Reduction Master Plan Projects

Project Name & Description

Bethune Street Diversion - City Funded

Commitments Made

Council, at its meeting of September 8, 2015 in considering Report CPFS15-044, authorized the signing of the Small Communities Fund contribution agreement for the receipt of grant funding from the federal and provincial governments and the combining of the Jackson Creek Flow Diversion, Bethune Street - Dalhousie Street to Dublin Street and Bethune Trunk Sewer individual projects into one project renamed the Bethune Street Project.

Council, through various Reports (USEC15-022, PLPL18-010, IPSEC18-024) have awarded the Design and Contract Admin to AECOM and have extended the construction phases to include the Charlotte Street East Project and the Downtown Gateway Project at Park Street and Charlotte Street.

\$1.9 million of the 2021 budget was pre-committed with the approval of the 2020 budget.

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs. In particular this project may result in a long bridge structure under the definition of a bridge. It will require biennial inspections in keeping with our OSIM Bridge Inspection Program.

Project Detail, Justification & Reference Map

This project is the City portion of the overall project. The total project is approximately \$25 million and funding is shared 1/3 between the federal Government, the provincial government and the City. Works ineligible for the shared funding such as overhead, land acquisition, enhanced pedestrian/cycle facilities, etc., are covered under this project.

The project improves the road condition along an arterial street and recognizes that the CNR removed its tracks from the street in 1990 and that a formal rehabilitation is required. The 11-metre width provides for two traffic lanes and one parking lane. A bike lane requirement is noted in the 2011 Transportation Master Plan.

In conjunction with the roadworks, the existing Bethune Street sanitary trunk sewer identified in the Area Specific DC Bylaw, will be upgraded and Jackson Creek Diversion flood reduction measures, approved by Council in 2014, will be undertaken. The Central Area Master Plan also calls for a walking/cycling network connecting the Trans Canada Trail with Crawford Trail.

This project is identified in the Citywide DC By-law as a road project. Future years' funding requests will be required for potential cleanup of the old rail bed. Due to the magnitude of the project, it is expected that construction will occur over multiple years.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to	2031 to
		Total	Pre-2021	2021	2022	2023	2024	2025	2030	2045
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	Bethune St Diversion City Funded									
Project #	5-5.03									
Expenditures										
Contractual Services	12,235.8	3,585.8	1,900.0	1,980.0	1,500.0	1,660.0	1,610.0			
Net Requirements	12,235.8	3,585.8	1,900.0	1,980.0	1,500.0	1,660.0	1,610.0			
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	1,370.0	1,370.0								
DEBT DC-Carnegie Est	1,900.0		1,900.0							
DEBT DC-CarnegieWest	547.0			547.0						
Total Debenture Financing	3,817.0	1,370.0	1,900.0	547.0						
Reserves										
Federal Gas Tax	502.5	502.5								
Casino Gaming Reserve	800.0	800.0								
FRMP - Capital Levy Reserve	913.3	913.3								
Total Reserves	2,215.8	2,215.8								
Capital Levy	6,203.0			1,433.0	1,500.0	1,660.0	1,610.0			

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-5.04**Division:** Infrastructure Planning - Flood Reduction Master Plan Projects**Project Name & Description**

IIMP-Infrastructure Information Management Program

Commitments Made

Software has been purchased for Engineering and Public Works to facilitate effective data management.

Effects on Future Operating Budgets

Software and Peterborough Technology Services direct Flood Reduction Master Plan related labour costs are included in this item.

Project Detail, Justification & Reference Map

Engineering Management Information and Systems (EMIS), including hardware, software, licenses, training and maintenance, will provide a system for evaluating critical engineering issues, project prioritization, and management of the project.

To support the large amounts of information compiled, EMIS will include the following activities:

- Engineering Information Management Gap Analysis
- System Architecture
- Data modeling
- Data warehousing
- GIS

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Infrastructure Planning - Flood Reduction Master Plan Projects										
Project Description	IIMP Infrastructure Information										
Project #	5-5.04										
Expenditures											
Contractual Services		150.0	50.0		25.0	25.0	25.0	25.0			
Net Requirements		<u>150.0</u>	<u>50.0</u>		<u>25.0</u>	<u>25.0</u>	<u>25.0</u>	<u>25.0</u>			
To Be Financed From:											
Reserves											
FRMP - Sewer Surcharge Reserve		75.0	25.0		12.5	12.5	12.5	12.5			
FRMP - Capital Levy Reserve		75.0	25.0		12.5	12.5	12.5	12.5			
Total Reserves		<u>150.0</u>	<u>50.0</u>		<u>25.0</u>	<u>25.0</u>	<u>25.0</u>	<u>25.0</u>			

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.05

Division: Engineering - Flood Reduction Master Plan Projects

Project Name & Description

Charlotte Street Upgrades - SE Jackson 100-year pipe

Commitments Made

The Jackson Creek Flood Reduction Master Plan was approved by Council on April 12, 2010, through Report USEC10-007.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

Effects on Future Operating Budgets

An increase in future operating budgets, due to increased sewer size and quantity, is anticipated.

Project Detail, Justification & Reference Map

This project upgrade will include the Charlotte Street sewer from Downie Street to Jackson Creek to 100-year capacity. Opportunity exists to complete this project together with the Jackson Creek diversion project and the Charlotte St rehabilitation project.

The upgraded pipes, in the oldest section of the city, is the best alternative given the relatively flat topography of this area.



Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Flood Reduction Master Plan Projects										
Project Description	Charlotte St Upgrades - SE Jackson 100 yr pipe										
Project #	5-5.05										
Expenditures											
Contractual Services	900.0										
Net Requirements		900.0				450.0	450.0				
To Be Financed From:											
Reserves											
FRMP - Capital Levy Reserve	900.0					450.0	450.0				
Total Reserves		900.0				450.0	450.0				

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services**Budget Reference #:** 5-5.06**Division:** Engineering - Flood Reduction Master Plan Projects**Climate Adaptation:** Yes**Project Name & Description**

Curtis Creek Watershed Improvements

Commitments Made

The Curtis Creek Flood Reduction Master Plan was approved by Council on February 8, 2010, through Report USEC10-001.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

The City has been successful in receiving provincial and federal funding for projects associated to this watershed. The proposed 2019 funding was not successful and the Channel works remain outstanding to complete a series of dependent projects in the watershed.

Effects on Future Operating Budgets

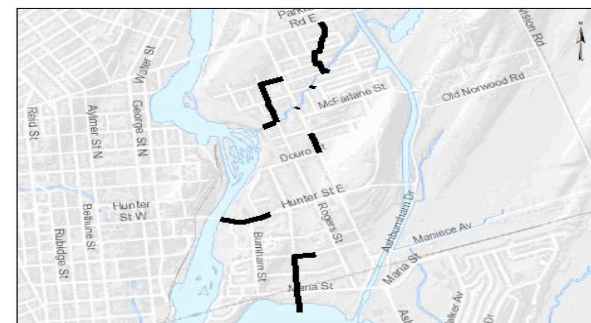
An increase in future operating budgets, due to increased infrastructure quantity, is anticipated.

Project Detail, Justification & Reference Map

The following projects have been approved for grant funding where the City also provided a City share: Curtis, Rogers, Tivey St Outlet Improvements, Curtis-Armour Rd Culvert, Curtis-Caddy St Culvert, Curtis-Euclid Ave Culvert Replacement

The final stage of construction to bring all above referenced projects together will be channel rehabilitation between each of the above sites. This project will see in water work proceed to increase the capacity of the channel. The City will continue to seek additional grant funding provided the City can support the requested funding.

The following Curtis Creek strategic projects will be completed subsequent to those listed above: Storm Sewer Upgrades along: Parkhill Rd; Dufferin and Rogers St; Armour Rd; Hunter St; Sophia and Mark St; Ashburnham Dr (pond).



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	Curtis Creek Watershed Improvements									
Project #	5-5.06									
Expenditures										
Contractual Services		27,860.0	1,730.0			200.0			6,920.0	19,010.0
Net Requirements		<u>27,860.0</u>	<u>1,730.0</u>			<u>200.0</u>			<u>6,920.0</u>	<u>19,010.0</u>
To Be Financed From:										
Reserves										
FRMP - Capital Levy Reserve		27,860.0	1,730.0			200.0			6,920.0	19,010.0
Total Reserves		<u>27,860.0</u>	<u>1,730.0</u>			<u>200.0</u>			<u>6,920.0</u>	<u>19,010.0</u>

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.07

Division: Engineering - Flood Reduction Master Plan Projects

Project Name & Description

South-East Jackson Watershed Improvements

Commitments Made

The Jackson Creek Flood Reduction Master Plan was approved by Council on April 12, 2010, through Report USEC10-007.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

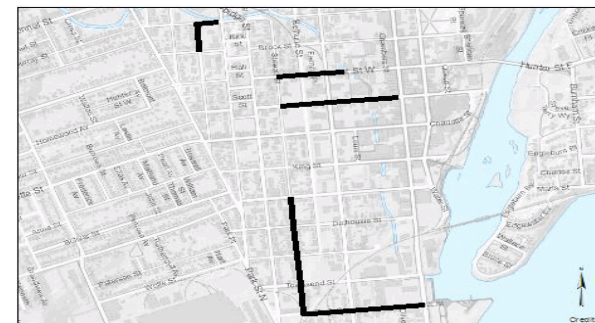
Effects on Future Operating Budgets

An increase in future operating budgets, due to increased sewer size and quantity, is anticipated.

Project Detail, Justification & Reference Map

The following projects are planned beyond the ten-year capital forecast:

- Downie Street/Murray Street, 100-year pipe
- Hunter Street, 100-year pipe
- Rink Street, 100-year pipe
- Simcoe Street, 100-year pipe



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	South-East Jackson Watershed Upgrades									
Project #	5-5.07									
Expenditures										
Contractual Services		76,700.0								76,700.0
Net Requirements		<u>76,700.0</u>								<u>76,700.0</u>
To Be Financed From:										
Reserves										
FRMP - Capital Levy Reserve		76,700.0								76,700.0
Total Reserves		<u>76,700.0</u>								<u>76,700.0</u>

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.08

Division: Engineering - Flood Reduction Master Plan Projects

Project Name & Description

Byersville Watershed Improvements

Commitments Made

The Byersville Creek Flood Reduction Master Plan was approved by Council on September 13, 2010, through Report USEC10-023.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

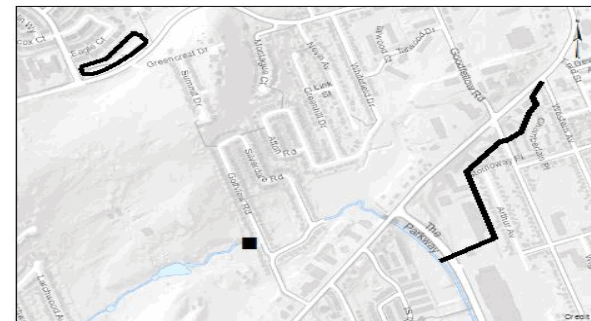
Effects on Future Operating Budgets

An increase in future operating budgets, due to increased infrastructure quantity, is anticipated.

Project Detail, Justification & Reference Map

The following projects are planned beyond the ten-year capital forecast:

- Cedargrove SWMP
- Golfview Drive Inlet
- Twin Clonsilla Avenue East Branch



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	Byersville Watershed Improvements									
Project #	5-5.08									
Expenditures										
Contractual Services		40,820.0								40,820.0
Net Requirements		<u>40,820.0</u>								<u>40,820.0</u>
To Be Financed From:										
Reserves										
FRMP - Capital Levy Reserve		40,820.0								40,820.0
Total Reserves		<u>40,820.0</u>								<u>40,820.0</u>

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.09

Division: Engineering - Flood Reduction Master Plan Projects

Project Name & Description

Brookdale Watershed Improvements

Commitments Made

The Jackson Creek Flood Reduction Master Plan was approved by Council on April 12, 2010, through Report USEC10-007.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

Council, at its meeting of June 6, 2017 in considering Report USEC17-015, committed sufficient funds for the completion of the Brookdale Channel outlet along McDonnel Street and Donegal Street.

Effects on Future Operating Budgets

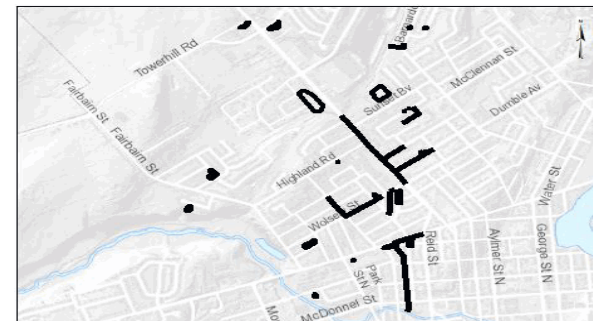
An increase in future operating budgets due to increased infrastructure quantity.

Project Detail, Justification & Reference Map

The prior approved is required for the completion of works to Brookdale Channel upstream of McDonnel Street.

The following projects are planned in the later stages of the ten year capital forecast:

Barnardo Avenue, 100-year pipe; Bellevue Street; Bennet Street, 100 year pipe; Brookdale Crescent / Chesterfield Avenue; Chemong Road / Old Towerhill Road; Chemong Road / Towerhill Road; Chemong Road West; Donegal Street / Wolsley Street; Gilchrist Street; Greenlawn Avenue; Highland Road, regrade private property; Park Street / Dublin Street, sewer upgrade; Parkhill Road, 100-year pipe; Stormont Street / Glengarry Avenue; Sunset Boulevard, regrading



Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	Brookdale Watershed Improvements									
Project #	5-5.09									
Expenditures										
Contractual Services		32,025.0	975.0						40.0	31,010.0
Net Requirements		<u>32,025.0</u>	<u>975.0</u>						<u>40.0</u>	<u>31,010.0</u>
To Be Financed From:										
Reserves										
FRMP - Capital Levy Reserve		32,025.0	975.0						40.0	31,010.0
Total Reserves		<u>32,025.0</u>	<u>975.0</u>						<u>40.0</u>	<u>31,010.0</u>

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.10

Division: Engineering - Flood Reduction Master Plan Projects

Climate Adaptation: Yes

Project Name & Description

North-East Jackson Watershed Improvements

Commitments Made

The Jackson Creek Flood Reduction Master Plan was approved by Council on April 12, 2010, through Report USEC10-007.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

Effects on Future Operating Budgets

An increase in future operating budgets, due to increased sewer size and quantity, is anticipated.

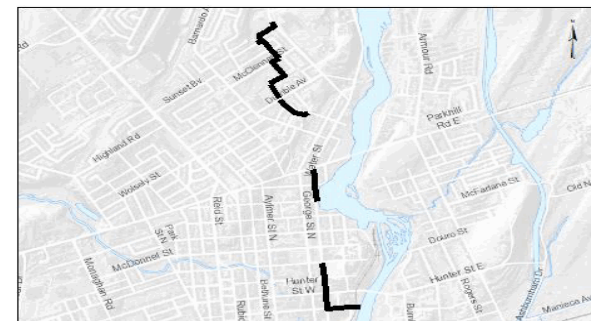
Project Detail, Justification & Reference Map

The first need for this project will be the Water Street 100-yr Pipe south of Parkhill Road.

The Simcoe Street 100-year pipe from the Otonabee River to George Street has been included in the Downtown Flood Mitigation Project.

The following needs will be completed subsequent to this;

- Construction of a relief storm sewer parallel to the existing sewer from Hilliard Street along Phillip Street, McClennan Street, Gilbert Street, Elizabeth Avenue and Nicholls Street; and
- Up sizing the existing pipe to 100-year capacity from Nicholls Street and Dumble Avenue and along Parkhill Road and Water Street.



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Flood Reduction Master Plan Projects										
Project Description	North-East Jackson Watershed Improvements										
Project #	5-5.10										
Expenditures											
Contractual Services		27,100.0	400.0				2,100.0	2,100.0	12,500.0	10,000.0	
Net Requirements		<u>27,100.0</u>	<u>400.0</u>				<u>2,100.0</u>	<u>2,100.0</u>	<u>12,500.0</u>	<u>10,000.0</u>	
To Be Financed From:											
Reserves											
FRMP - Capital Levy Reserve		5,400.0	400.0								5,000.0
Total Reserves		<u>5,400.0</u>	<u>400.0</u>								<u>5,000.0</u>
Capital Levy		<u>21,700.0</u>					<u>2,100.0</u>	<u>2,100.0</u>	<u>12,500.0</u>	<u>5,000.0</u>	

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.11

Division: Engineering - Flood Reduction Master Plan Projects

Project Name & Description

Meade Watershed Improvements

Commitments Made

The Meade Creek Flood Reduction Master Plan was approved by Council on July 5, 2010, through Report USEC10-017.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

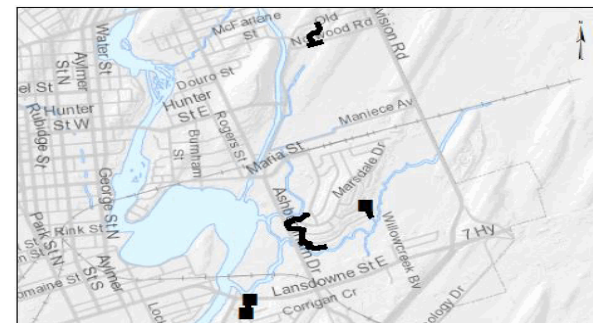
Effects on Future Operating Budgets

An increase in future operating budgets, due to increased infrastructure quantity, is anticipated.

Project Detail, Justification & Reference Map

The following projects are planned beyond the ten-year capital forecast:

- Meade Creek Levee
- Glenmead Road and Farmcrest Avenue
- Naish Road Local Drainage
- SW Corner Farmcrest
- Syndenham Road, Severn Road, Rochelle Court



Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	Meade Watershed Improvements									
Project #	5-5.11									
Expenditures										
Contractual Services		9,390.0								9,390.0
Net Requirements		<u>9,390.0</u>								<u>9,390.0</u>
To Be Financed From:										
Reserves										
FRMP - Capital Levy Reserve		9,390.0								9,390.0
Total Reserves		<u>9,390.0</u>								<u>9,390.0</u>

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.12

Division: Engineering - Flood Reduction Master Plan Projects

Project Name & Description

Riverview Watershed Improvements

Commitments Made

The Riverview Creek Flood Reduction Master Plan was approved by Council on April 14, 2009, through Report USEC09-004.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

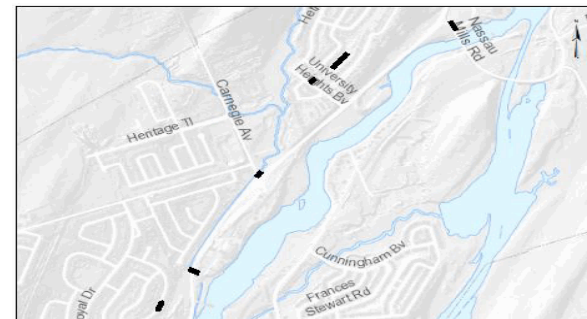
Effects on Future Operating Budgets

An increase in future operating budgets, due to increased infrastructure quantity, is anticipated.

Project Detail, Justification & Reference Map

The following projects are planned beyond the ten-year capital forecast:

- Algonquin Boulevard ROW
- Carnegie Culvert at Water Street
- Lorraine Drive Outlet
- Subwatershed Culvert Nassau Mills
- Water Street Culvert Upgrade at Zoo



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	Riverview Watershed Improvements									
Project #	5-5.12									
Expenditures										
Contractual Services		9,260.0								9,260.0
Net Requirements		<u>9,260.0</u>								<u>9,260.0</u>
To Be Financed From:										
Reserves										
FRMP - Capital Levy Reserve		9,260.0								9,260.0
Total Reserves		<u>9,260.0</u>								<u>9,260.0</u>

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.13

Division: Engineering - Flood Reduction Master Plan Projects

Project Name & Description

Thompson Watershed Improvements

Commitments Made

The Thompson Creek Flood Reduction Master Plan was approved by Council on February 11, 2008, through Report USEC08-002.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

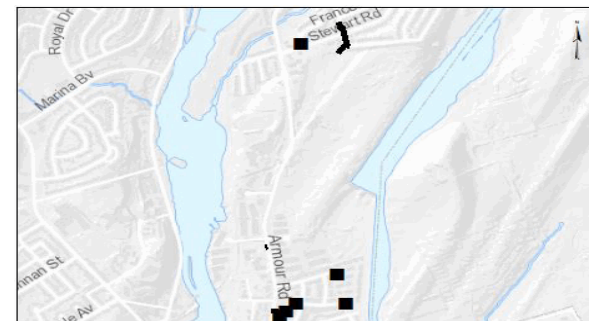
Effects on Future Operating Budgets

An increase in future operating budgets, due to increased infrastructure quantity, is anticipated.

Project Detail, Justification & Reference Map

The following projects are planned beyond the ten-year capital forecast:

- Armour Road Runoff Storage
- Eldon SWM Pond
- Franmor Drive, Abbey Lane, Chapel Road Drainage
- Scollard Drive Drainage - Major System



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	Thompson Watershed Improvements									
Project #	5-5.13									
Expenditures										
Contractual Services		4,380.0								4,380.0
Net Requirements		<u>4,380.0</u>								<u>4,380.0</u>
To Be Financed From:										
Reserves										
FRMP - Capital Levy Reserve		4,380.0								4,380.0
Total Reserves		<u>4,380.0</u>								<u>4,380.0</u>

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.14

Division: Engineering - Flood Reduction Master Plan Projects

Climate Adaptation: Yes

Project Name & Description

Byersville - Clonsilla Avenue Parkway Storm Basin

Commitments Made

The Byersville Creek Flood Reduction Master Plan was approved by Council on September 13, 2010, through Report USEC10-023.

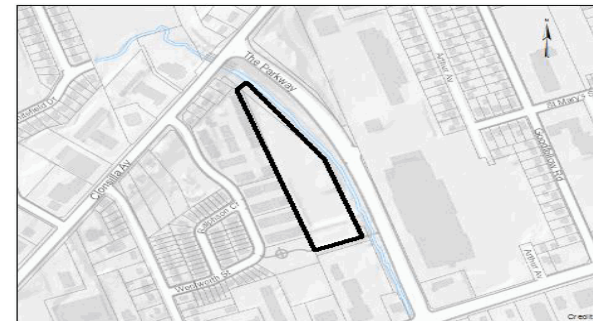
Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

Effects on Future Operating Budgets

An increase in future operating budgets, due to an additional stormwater management facility, is anticipated.

Project Detail, Justification & Reference Map

This project makes use of an existing City-owned land parcel along the west side of Byersville Creek between Clonsilla Avenue and Lansdowne Street West. This parcel is large enough to provide for an estimated 40,000 m3 of flow storage. From this area to the creek outlet at the Otonabee River, the topography is very flat. This large storage area is the most practical solution to assist in controlling high flows.



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Flood Reduction Master Plan Projects										
Project Description	Byersville - Clonsilla Parkway Storm Basin										
Project #	5-5.14										
Expenditures											
Contractual Services		3,000.0					1,000.0	2,000.0			
Net Requirements		<u>3,000.0</u>					<u>1,000.0</u>	<u>2,000.0</u>			
To Be Financed From:											
Reserves											
FRMP - Capital Levy Reserve		3,000.0					1,000.0	2,000.0			
Total Reserves		<u>3,000.0</u>					<u>1,000.0</u>	<u>2,000.0</u>			

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.15

Division: Engineering - Flood Reduction Master Plan Projects

Project Name & Description

South-West Jackson Watershed Improvements

Commitments Made

The Jackson Creek Flood Reduction Master Plan was approved by Council on April 12, 2010, through Report USEC10-007.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

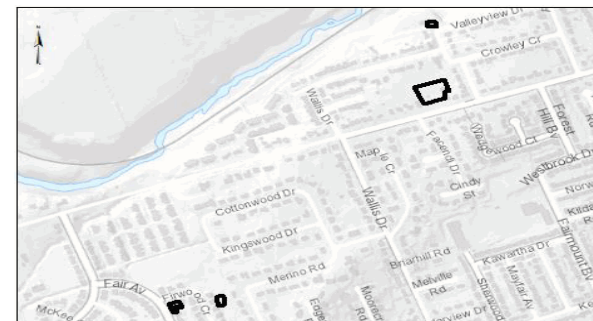
Effects on Future Operating Budgets

An increase in future operating budgets, due to increased infrastructure quantity, is anticipated.

Project Detail, Justification & Reference Map

The following storm system upgrade projects are planned in the later stages of the ten-year capital forecast:

- Firwood Crescent
- Regrade on Parkhill Road
- Valleyview Drive
- Ravenwood Drive



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	South-West Jackson Watershed Improvements									
Project #	5-5.15									
Expenditures										
Contractual Services		490.0							490.0	
Net Requirements		<u>490.0</u>							<u>490.0</u>	
To Be Financed From:										
Reserves										
FRMP - Capital Levy Reserve		490.0							490.0	
Total Reserves		<u>490.0</u>							<u>490.0</u>	

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.16

Division: Engineering - Flood Reduction Master Plan Projects

Project Name & Description

North-West Jackson Watershed Improvements

Commitments Made

The Jackson Creek Flood Reduction Master Plan was approved by Council on April 12, 2010, through Report USEC10-007.

Report USEC14-006 entitled "Flood Reduction Watershed EA Capital Projects Update" adopted by Council on April 7, 2014, prioritized the watershed capital projects.

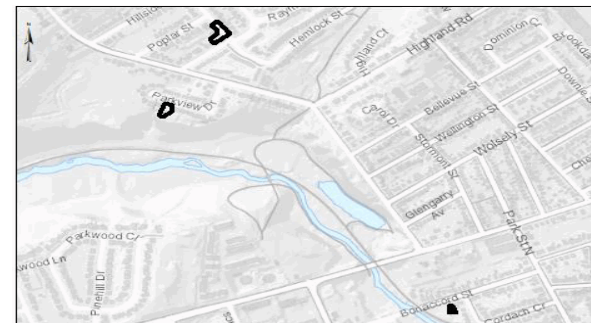
Effects on Future Operating Budgets

An increase in future operating budgets, due to increased sewer size and quantity, is anticipated.

Project Detail, Justification & Reference Map

The following projects are planned beyond the ten-year capital forecast:

- NW Jackson-Bonacord Street
- NW Jackson-Hemlock Street
- NW Jackson-Parkview Drive



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	North-West Jackson Watershed Improvements									
Project #	5-5.16									
Expenditures										
Contractual Services		90.0							20.0	70.0
Net Requirements		<u>90.0</u>							<u>20.0</u>	<u>70.0</u>
To Be Financed From:										
Reserves										
FRMP - Capital Levy Reserve		90.0							20.0	70.0
Total Reserves		<u>90.0</u>							<u>20.0</u>	<u>70.0</u>

City of Peterborough
Other Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Infrastructure and Planning Services Flood Reduction Master Plan Projects																	
Sanitary Sewer (Relining, Renew & Repair - B-210)	5-5.17	23,430.9	14,430.9	1,500.0		1,500.0				1,500.0	1,500.0	1,500.0	1,500.0	1,500.0	4,500.0	4,500.0	
CCTV Inspection of Pipes (A-230)	5-5.18	13,315.4	7,165.4	1,350.0		1,350.0				1,350.0	1,350.0	1,350.0	1,150.0	1,150.0	2,300.0	2,300.0	
Flow & Rainfall Monitoring	5-5.19	1,080.0	420.0	110.0		110.0				110.0	110.0	110.0	110.0	110.0	330.0	330.0	
C-240/210 Flood Reduction Subsidy Program	5-5.20	4,968.0	4,263.0	30.0		30.0				30.0	75.0	75.0	75.0	75.0	525.0	525.0	
Rain Event Miscellaneous Projects	5-5.21	150.0	100.0								50.0	50.0					
Total		42,944.3	26,379.3	2,990.0		2,990.0				2,990.0	3,085.0	3,085.0	2,835.0	2,835.0	7,655.0	7,655.0	

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.17

Division: Infrastructure Planning - Flood Reduction Master Plan Projects

Climate Mitigation: Yes

Climate Adaptation: Yes

Project Name & Description

Sanitary/Storm Sewer Projects (Relining, Renew and Repair - B-210)

Based on the findings of the various studies carried out from 2004 to present, sanitary sewers throughout the city require major work such as relining, repairing or replacement. This is a multi-year program.

As well, high water table areas in the city have been identified. In selected areas, it may be necessary to install a dedicated storm water pipe to move foundation water and sump pump water away from private properties and away from public sidewalks and roads, thus removing the flow from the sanitary system.

Commitments Made

There are no commitments made at this time. As CCTV inspections are completed, projects are identified that are funded from this account. Also, continued monitoring of potentially “excessively wet” areas will lead to specific projects.

Effects on Future Operating Budgets

As more infrastructure is installed, on-going operating budgets will increase.

Project Detail, Justification & Reference Map

This initiative will lead to a reduction in storm and rainwater infiltration into the sanitary sewer system. This will result in a reduction in the unnecessary treatment of storm water at the Wastewater Treatment Plant, restore some capacity into the existing sanitary sewer system to support current and future development, and reduce the frequency of sewer backups.

The program also includes the structural relining or replacement of pipes which extends their useful life or rehabilitates degraded pipes.

This program follows the recommendations of the Flood Reduction Master Plan as detailed under Section B-210 of that Study.

The studies that lead to these projects include:

- Smoke and Dye Testing
- Sanitary/Storm System Survey
- Soils and Groundwater Investigation
- Closed Circuit Television Inspection of Sanitary Sewers
- Rainfall Data

The program will also extend the useful life of both storm and sanitary sewers.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastructure Planning - Flood Reduction Master Plan Projects									
Project Description	Sanitary Sewer (Relining, Renew & Repair - B-210)									
Project #	5-5.17									
Expenditures										
Contractual Services	23,430.9	14,430.9	1,500.0	1,500.0	1,500.0	1,500.0	1,500.0	1,500.0	1,500.0	
Net Requirements	<u>23,430.9</u>	<u>14,430.9</u>	<u>1,500.0</u>	<u>1,500.0</u>	<u>1,500.0</u>	<u>1,500.0</u>	<u>1,500.0</u>	<u>1,500.0</u>	<u>1,500.0</u>	
To Be Financed From:										
Reserves										
FRMP - Sewer Surcharge Reserve	22,010.9	14,230.9	1,280.0	1,300.0	1,300.0	1,300.0	1,300.0	1,300.0	1,300.0	
FRMP - Capital Levy Reserve	1,420.0	200.0	220.0	200.0	200.0	200.0	200.0	200.0	200.0	
Total Reserves	<u>23,430.9</u>	<u>14,430.9</u>	<u>1,500.0</u>	<u>1,500.0</u>	<u>1,500.0</u>	<u>1,500.0</u>	<u>1,500.0</u>	<u>1,500.0</u>	<u>1,500.0</u>	

2021 - 2030 Capital Budget Justification Other Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.18

Division: Engineering - Flood Reduction Master Plan Projects

Climate Adaptation: Yes

Project Name & Description

CCTV Inspection of Pipes (A-230)

Inspect and evaluate storm and sanitary sewer infrastructure, identify rehabilitation and maintenance requirements based on data collected, and create a searchable repository for inspection and recommendation records.

Commitments Made

The initial inspection was conducted as part of the ODRAP infrastructure claim.

Effects on Future Operating Budgets

The sanitary sewer system is now on a six-year cycle of regular inspections and storm sewers are now being completed. Problem areas are identified during inspections. Based on these CCTV inspections, a remedial plan to address the problem areas in the sanitary sewer system is developed and implemented.

Project Detail, Justification & Reference Map

Pipeline Assessment

- Develop a work program covering the phased inspection of storm and sanitary sewers flagged as priorities by the zoom camera inspection program
- Produce a delivery schedule based on eight predefined work areas
- Video inspect sewers in accordance with NASSCO inspection standards
- Code inspections using PACP Defect Rating approach
- Index and review CCTV inspection videos and PACP Defect Coding files
- Evaluate structural and service deficiencies to establish performance ratings
- Identify rehabilitation and maintenance requirements that are required to address deficiencies
- Prioritize follow-up requirements based on condition and strategic importance

Information Management

- Develop a data repository to hold inspection reports, and rehabilitation and maintenance work records
- Create interface forms facilitating query and search of stored data
- Link database records to ArcGIS to facilitate spatial display of query results
- Required input to Asset Management Plan

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Flood Reduction Master Plan Projects									
Project Description	CCTV Inspection of Pipes (A-230)									
Project #	5-5.18									
Expenditures										
Contractual Services	13,315.4	7,165.4	1,350.0	1,350.0	1,150.0	1,150.0	1,150.0			
Net Requirements	<u>13,315.4</u>	<u>7,165.4</u>	<u>1,350.0</u>	<u>1,350.0</u>	<u>1,150.0</u>	<u>1,150.0</u>	<u>1,150.0</u>			
To Be Financed From:										
Reserves										
FRMP - Sewer Surcharge Reserve	10,265.0	5,365.0	1,100.0	1,100.0	900.0	900.0	900.0			
FRMP - Capital Levy Reserve	<u>3,050.4</u>	<u>1,800.4</u>	<u>250.0</u>	<u>250.0</u>	<u>250.0</u>	<u>250.0</u>	<u>250.0</u>			
Total Reserves	<u>13,315.4</u>	<u>7,165.4</u>	<u>1,350.0</u>	<u>1,350.0</u>	<u>1,150.0</u>	<u>1,150.0</u>	<u>1,150.0</u>			

**2021 - 2030 Capital Budget Justification
Other Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.19

Division: Infrastructure Planning - Flood Reduction Master Plan Projects

Climate Adaptation: Yes

Project Name & Description

Flow and Rainfall Monitoring

Commitments Made

The City's Flood Reduction Master Plan's strategic objective.

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

The purpose of flow monitoring is to collect accurate, current information on the flow characteristics of the study area, and the associated rainfall intensity, total volume, rate, and duration. Information collected will be used for various applications including computer model calibration; development of area specific modeling parameters relative to design values; and inflow and infiltration identification and quantification.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastructure Planning - Flood Reduction Master Plan Projects									
Project Description	Flow & Rainfall Monitoring									
Project #	5-5.19									
Expenditures										
Contractual Services	1,080.0	420.0	110.0	110.0	110.0	110.0	110.0	110.0	110.0	
Net Requirements	<u>1,080.0</u>	<u>420.0</u>	<u>110.0</u>	<u>110.0</u>	<u>110.0</u>	<u>110.0</u>	<u>110.0</u>	<u>110.0</u>	<u>110.0</u>	
To Be Financed From:										
Reserves										
Casino Gaming Reserve	20.0	20.0								
FRMP - Sewer Surcharge Reserve	820.0	280.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
FRMP - Capital Levy Reserve	240.0	120.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	
Total Reserves	<u>1,080.0</u>	<u>420.0</u>	<u>110.0</u>	<u>110.0</u>	<u>110.0</u>	<u>110.0</u>	<u>110.0</u>	<u>110.0</u>	<u>110.0</u>	

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: Infrastructure and Planning Services**Budget Reference #:** 5-5.20**Division:** Infrastructure Planning - Flood Reduction Master Plan Projects**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

C-240/210 Flood Reduction Subsidy Program

Commitments Made

USEC 15-006 endorsed by Council to provide residents with extra protection against basement sewage flooding as well as reducing the amount of stormwater inflow into the sanitary sewer system.

Effects on Future Operating Budgets

With the removal of clean water entering the Sanitary System, treatment cost at the WWTP will be reduced. Protecting households from flooding may also reduce the City's insurance and liability requirements.

Project Detail, Justification & Reference Map

The Flood Reduction Subsidy Program takes a more comprehensive approach towards reducing storm Inflow and Infiltration (I-I) into the sanitary sewer system. The program covers more than foundation drain disconnections and sump pump installations by including all the types of inappropriate I-I source connections to the sanitary system. Specifically, this program will subsidize labour and material costs for:

The installation of an approved backwater valve;

The installation of a sump pit and pump required to disconnect foundation drains; and

The remediation of any inappropriate connection that allows for discharge of stormwater (I-I) into the sanitary system.

The City will continue to identify sources of I-I. When a source is identified, the City will complete the fix on City property and will notify the property owner of the source on private property. The Flood Reduction Subsidy Program will be advertised City-wide to provide property owners an opportunity to bring a non-conforming cross connection into compliance with the amended by-law.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastructure Planning - Flood Reduction Master Plan Projects									
Project Description	C-240/210 Flood Reduction Subsidy Program									
Project #	5-5.20									
Expenditures										
Contractual Services		4,968.0	4,263.0	30.0	75.0	75.0	75.0	75.0	375.0	
Net Requirements		<u>4,968.0</u>	<u>4,263.0</u>	<u>30.0</u>	<u>75.0</u>	<u>75.0</u>	<u>75.0</u>	<u>75.0</u>	<u>375.0</u>	
To Be Financed From:										
Reserves										
FRMP - Sewer Surcharge Reserve		4,968.0	4,263.0	30.0	75.0	75.0	75.0	75.0	375.0	
Total Reserves		<u>4,968.0</u>	<u>4,263.0</u>	<u>30.0</u>	<u>75.0</u>	<u>75.0</u>	<u>75.0</u>	<u>75.0</u>	<u>375.0</u>	

**2021 - 2030 Capital Budget Justification
Other Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-5.21

Division: Infrastructure Planning - Flood Reduction Master Plan Projects

Climate Adaptation: Yes

Project Name & Description

Rain Event Miscellaneous Projects

Commitments Made

The Flood Reduction Master Plan Progress Report and Review of March 15, 2012 Storm Event, Report USEC12-012, on May 28, 2012 was approved.

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

Investigations outside the watershed EAs will continue to identify other areas that have shown a propensity to flood during moderate to heavy rain events. Council may be requested to provide funds or direction to allow implementation of solutions as they materialize.

Fixes for areas such as these do not necessarily carry a high price tag in comparison to the individual watershed EAs. The City's Purchasing By-law would then direct the approval process based on the price estimate.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastructure Planning - Flood Reduction Master Plan Projects									
Project Description	Rain Event Miscellaneous Projects									
Project #	5-5.21									
Expenditures										
Contractual Services		150.0	100.0		50.0					
Net Requirements		<u>150.0</u>	<u>100.0</u>		<u>50.0</u>					
To Be Financed From:										
Reserves										
FRMP - Capital Levy Reserve		150.0	100.0		50.0					
Total Reserves		<u>150.0</u>	<u>100.0</u>		<u>50.0</u>					

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Geomatics/Mapping																
Vertical / Horizontal Control Monuments	5-6.01	885.0	135.0	50.0		50.0	50.0				55.0	55.0	55.0	55.0	590.0	590.0
ESRI Stabilization	5-6.02	1,390.6	1,295.6								95.0	95.0				
Smart System Expansion and Artificial Intelligence	5-6.03	150.0	50.0								50.0	50.0	50.0	50.0		
Total		2,425.6	1,480.6	50.0		50.0	50.0				200.0	200.0	105.0	105.0	590.0	590.0

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-6.01**Division:** Infrastructure Planning - Geomatics/Mapping**Climate Mitigation:** Yes**Project Name & Description**

Vertical/Horizontal Control Monuments

Commitments Made

None.

Effects on Future Operating Budgets

None.

Project Detail, Justification & Reference Map

Control monuments are placed as part of triangulation surveys, measurement efforts that moved systematically across the City, Province and Country, establishing the angles and distances between various points. Such surveys lay the basis for map-making in Canada and across the world. These permanent control monuments create a fixed reference frame on which surveyors can base their measurements. This allows measurements from different surveyors, and in different periods of time, to fit together.

This project will replace destroyed monuments and add new monuments that will tighten triangulation and support mapping efforts.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Infrastructure Planning - Geomatics/Mapping										
Project Description	Vertical / Horizontal Control Monuments										
Project #	5-6.01										
Expenditures											
Contractual Services		885.0	135.0	50.0	55.0	55.0	55.0	55.0	170.0	310.0	
Net Requirements		<u>885.0</u>	<u>135.0</u>	<u>50.0</u>	<u>55.0</u>	<u>55.0</u>	<u>55.0</u>	<u>55.0</u>	<u>170.0</u>	<u>310.0</u>	
To Be Financed From:											
Reserves											
Control Monuments - New Subdivisions Reserve		130.0	10.0		10.0	10.0	10.0	10.0	30.0	50.0	
Total Reserves		<u>130.0</u>	<u>10.0</u>		<u>10.0</u>	<u>10.0</u>	<u>10.0</u>	<u>10.0</u>	<u>30.0</u>	<u>50.0</u>	
Capital Levy		<u>755.0</u>	<u>125.0</u>	<u>50.0</u>	<u>45.0</u>	<u>45.0</u>	<u>45.0</u>	<u>45.0</u>	<u>140.0</u>	<u>260.0</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-6.02**Division:** Infrastructure Planning - Geomatics/Mapping**Project Name & Description**

ESRI Stabilization Five Year Project (Year 5 of 5)

Commitments Made

None.

Effects on Future Operating Budgets

None.

Project Detail, Justification & Reference Map

Public Data Feedback Program (Crowdsourcing)

Continue the initiative of opening up public information and build on public self-serve web environment. Leverage our existing open data technology, work together with internal and external stakeholders to track progress, improve outcomes, and create a robust open data hub.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastructure Planning - Geomatics/Mapping									
Project Description	ESRI Stabilization									
Project #	5-6.02									
Expenditures										
Contractual Services		1,390.6	1,295.6		95.0					
Net Requirements		<u>1,390.6</u>	<u>1,295.6</u>		<u>95.0</u>					
To Be Financed From:										
Reserves										
Capital Levy Reserve		183.0	183.0							
Total Reserves		<u>183.0</u>	<u>183.0</u>							
Capital Levy		<u>1,207.6</u>	<u>1,112.6</u>		<u>95.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-6.03**Division:** Infrastructure Planning - Geomatics/Mapping**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

Smart System Expansion and Artificial Intelligence

Commitments Made**Effects on Future Operating Budgets**

Potentially reduce emergency and routine Maintenance requirements

Project Detail, Justification & Reference Map

In 2018 the City installed "smart nodes" on all LED retrofit streetlights. This technology will support various uses throughout the City. The mesh network installed across the City has already benefited the PUC in gathering information from water meters that were in inaccessible locations. This is an example of benefits that can be realized by the transmittal of information and data.

This project proposes to review other aspects of the City's workflow such as real-time creek level monitoring and alarms to notify maintenance staff of potential issues prior to becoming costly emergencies.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastrucure Planning - Geomatics/Mapping									
Project Description	Smart System Expansion and Artificial Intelligence									
Project #	5-6.03									
Expenditures										
Contractual Services		150.0	50.0		50.0	50.0				
Net Requirements		150.0	50.0		50.0	50.0				
To Be Financed From:										
Reserves										
Decorative Streetlighting Enhancement Reserve		25.0				25.0				
Waste Management Reserve		50.0	25.0		25.0					
Total Reserves		75.0	25.0		25.0	25.0				
Capital Levy		75.0	25.0		25.0	25.0				

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Infrastructure and Planning Services Geomatics/Mapping																	
Corporate GIS Development Tool	5-6.04	1,534.2	629.2	150.0		150.0	150.0				340.0	340.0	100.0	100.0	315.0	315.0	
Total		1,534.2	629.2	150.0		150.0	150.0				340.0	340.0	100.0	100.0	315.0	315.0	

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-6.04**Division:** Infrastructure Planning - Geomatics/Mapping**Climate Mitigation:** Yes**Project Name & Description**

Corporate GIS Development Tool

Commitments Made

None.

Effects on Future Operating Budgets

None.

Project Detail, Justification & Reference Map

This project will build on the existing GIS data models required to support corporate applications, evolving technology and new data regulations (NG-911, Parcel and Ownership changes, Sewer integrations and Road segmentations).

Advisory services will be contracted, where necessary, to help guide GIS service development and delivery, enabling advantages of location based functionalities and simplifying service development and delivery.

A contract staff will be hired to assist with Public Works field mapping operations, integrating GIS with hydraulic modelling and support the framework and processes related to sustainable development goals

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Infrastructure Planning - Geomatics/Mapping										
Project Description	Corporate GIS Development Tool										
Project #	5-6.04										
Expenditures											
Contractual Services	1,534.2	629.2	150.0	340.0	100.0	215.0	100.0				
Total Direct Revenue	1,534.2	629.2	150.0	340.0	100.0	215.0	100.0				
Net Requirements	1,534.2	629.2	150.0	340.0	100.0	215.0	100.0				
To Be Financed From:											
Capital Levy	1,534.2	629.2	150.0	340.0	100.0	215.0	100.0				

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Infrastructure and Planning Services Infrastructure Planning Adm																	
Sustainability Projects	5-7.01	585.0		65.0		65.0				65.0	65.0	65.0	65.0	65.0	390.0	390.0	
Total		585.0		65.0		65.0				65.0	65.0	65.0	65.0	65.0	390.0	390.0	

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services**Budget Reference #:** 5-7.01**Division:** Infrastructure Planning - Infrastructure Planning Adm**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description****Sustainability Projects**

This capital project will be used as start up funding, enhanced funding, or to secure external funds to initiate sustainability and climate change projects that are not already included in other divisional projects.

Commitments Made

The annual outcome reporting tool for the Federal Gas Tax requires that each municipality demonstrate their commitment to sustainability through the creation and implementation of a Sustainability Plan. With the adoption of By-law 12-049, City Council committed to championing sustainability in our daily operations and leading our community through the implementation of the Sustainable Peterborough Plan.

Effects on Future Operating Budgets

Although sustainable projects may require greater initial investment based on the life cycle analysis, the payback period and associated reduction in operating costs will offset their initial investment. External funding is often sought and required to secure full funding for capital projects. Working towards greater sustainability will reduce annual operating and maintenance costs.

Project Detail, Justification & Reference Map

This capital budget will provide start up funding to leverage external grants needed to implement corporate sustainability projects (energy conservation, water conservation, implement/pilot green technology, sustainable infrastructure).

A Sustainability Reserve Fund has been created using rebates, incentives and revenue from the Kinsmen Rooftop Solar Project. The Reserve is used to leverage future sustainability projects.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastructure Planning - Infrastructure Planning Adm									
Project Description	Sustainability Projects									
Project #	5-7.01									
Expenditures										
Contractual Services		585.0		65.0	65.0	65.0	65.0	65.0	260.0	
Net Requirements		<u>585.0</u>		<u>65.0</u>	<u>65.0</u>	<u>65.0</u>	<u>65.0</u>	<u>65.0</u>	<u>260.0</u>	
To Be Financed From:										
Reserves										
Climate Change action plan reserve		65.0		65.0						
Total Reserves		<u>65.0</u>		<u>65.0</u>						
Capital Levy		<u>520.0</u>			<u>65.0</u>	<u>65.0</u>	<u>65.0</u>	<u>65.0</u>	<u>260.0</u>	

City of Peterborough
Other Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Infrastructure Planning Adm																
Wastewater Collection System Servicing Study	5-7.02	400.0		400.0		400.0			200.0	200.0						
Emerald Ash Borer (EAB) Management Plan	5-7.03	3,698.9	2,648.9	300.0		300.0	300.0				450.0	450.0	200.0	200.0	100.0	100.0
Climate Change Action Plan	5-7.04	1,600.5	100.5	150.0		150.0				150.0	150.0	150.0	150.0	1,050.0	1,050.0	
Sanitary Sewer River Crossings	5-7.05	100.0		100.0		100.0				100.0						
Watershed Planning Study - Places to Grow Act	5-7.06	530.0	500.0	30.0		30.0				30.0						
Asset Management Project	5-7.07	875.0	675.0								200.0	200.0				
Total		7,204.4	3,924.4	980.0		980.0	300.0		200.0	480.0	800.0	800.0	350.0	350.0	1,150.0	1,150.0

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: Infrastructure and Planning Services**Budget Reference #:** 5-7.02**Division:** Infrastructure Planning - Infrastructure Planning Adm**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

Wastewater Collection System Servicing Study

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

The current Sanitary Sewer Master Plan was completed in 2011 and focused on mitigating and reducing inflow and infiltration of groundwater and surface water into the sanitary sewer system. As work progresses on implementing recommendations from that study, the City needs to forecast long-term growth projections and identify the impacts on the wastewater collection system. Furthermore, there have been a number of changes to the planning context since the completion of the previous study.

The City is in the process of updating the Official Plan, which will incorporate higher growth forecasts and a focus on intensification as required in the Provincial Growth Plan. An intensification allowance for sanitary infrastructure was identified in the DC Background Study and this study will look at the long-term infrastructure required to facilitate that intensification.

In addition, new growth areas have been approved such as CleanTech Commons, the Liftlock Secondary Plan area, and the Lily Lake Secondary Plan area which need to be considered in a holistic fashion to provide a sustainable wastewater collection system to inform strategic investments for municipal infrastructure, increase system resilience in the face of climate change and meet present and future capacity requirements.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastructure Planning - Infrastructure Planning Adm									
Project Description	Wastewater Collection System Servicing Study									
Project #	5-7.02									
Expenditures										
Contractual Services		400.0		400.0						
Net Requirements		<u>400.0</u>		<u>400.0</u>						
To Be Financed From:										
Debentures										
DEBT DC-CityWide		200.0		200.0						
Total Debenture Financing		<u>200.0</u>		<u>200.0</u>						
Reserves										
Waste Water Reserve Reserve		200.0		200.0						
Total Reserves		<u>200.0</u>		<u>200.0</u>						

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-7.03

Division: Infrastructure Planning - Infrastructure Planning Adm

Climate Mitigation: Yes

Climate Adaptation: Yes

Project Name & Description

Emerald Ash Borer (EAB) Management Plan

Commitments Made

Council, at its meeting of April 8, 2013 in considering Report USDIR13 - 004, directed staff to initiate the EAB Management Plan.

Council, at its meeting of April 30, 2018 in considering Report USDIR18 - 005, adopted the revised Emerald Ash Borer Management Plan.

Effects on Future Operating Budgets

Staffing requirements are included in the operating budget with recoveries from this capital budget.

Project Detail, Justification & Reference Map

The EAB Management Plan continues to evolve as the Emerald Ash Borer progresses across the City. The April 30, 2018 update of the plan provided for an extension of the plan to 2025. The EAB is now confirmed to be widespread throughout the city. Removal of dead or dying Ash trees will now be required in larger numbers in future years to avoid any potential risks. 2020/2021 is projected to be the peak of the EAB infestation and the biannual treatment cycle will likely require to be doubled up to protect past investments as previously projected.

Much progress has been made since the first plan was adopted in 2013. Tree inventories have been collected and insect traps have been deployed across the city. A communications/outreach program was initiated with increased stakeholder involvement. Using this method, approximately 72,000 private and public Ash trees were identified throughout the city.

Treatment of approximately 1,500 significant Ash trees continues and the removal of dead Ash trees is now becoming more prevalent. When the dead Ash trees are big enough, a large proportion of the wood is reclaimed by saw milling and offering the lumber for sale to the public.

Work continues alongside other urban forest professionals and government agencies to review and apply the best science and strategic management practices to limit the visual and financial impact of EAB and preserve the benefits of the urban forest.

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastructure Planning - Infrastructure Planning Adm									
Project Description	Emerald Ash Borer (EAB) Management Plan									
Project #	5-7.03									
Expenditures										
Contractual Services		3,698.9	2,648.9	300.0	450.0	200.0	50.0	50.0		
Direct Revenue										
Contribution from related project		126.8	126.8							
Total Direct Revenue		126.8	126.8							
Net Requirements		3,572.1	2,522.1	300.0	450.0	200.0	50.0	50.0		
To Be Financed From:										
Reserves										
Provincial Gas TAx		58.9	58.9							
Tsf from - Trees		23.4	23.4							
Total Reserves		82.3	82.3							
Capital Levy		3,489.8	2,439.8	300.0	450.0	200.0	50.0	50.0		

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-7.04

Division: Infrastructure Planning - Infrastructure Planning Adm

Climate Mitigation: Yes

Climate Adaptation: Yes

Project Name & Description

Climate Change Action Plan

This capital project will be used to implement projects, enhance and leverage external funding for climate change projects, and fund the Climate Change Action Plan implementation.

Commitments Made

Council adopted the Greater Peterborough Area Climate Change Action Plan in December 2016 and with a goal of reducing both Corporate and Community greenhouse gases (GHG), by 30%, by 2031. Council passed a motion in January 2019 that directed staff to provide an update on short-term feasible actions, associated costs/funding opportunities and plans for embedding sustainability into daily operation and asset planning. In September 2019, Council passed a motion declaring a climate emergency within the City. The motion directs staff to work with the Peterborough Environmental Advisory Committee to review opportunities and implications of accelerating existing actions, raise the target for GHG emission reduction from 30% to 45% by 2030.

Project Detail, Justification & Reference Map

The annual capital budget allocation has been established as project start up funding, used to leverage external grants and associated contributions for local projects. External funding will continue to be sought to fund community and local projects.

Effects on Future Operating Budgets

Although greenhouse gas reduction initiatives may require greater investment, the associated mitigation and adaptation actions will enable the City to become more resilient and able to cope with our changing climate and extreme weather events.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastructure Planning - Infrastructure Planning Adm									
Project Description	Climate Change Action Plan									
Project #	5-7.04									
Expenditures										
Contractual Services	1,600.5	100.5		150.0	150.0	150.0	150.0	150.0	750.0	
Direct Revenue										
Contribution from related project	100.5	100.5								
Total Direct Revenue	<u>100.5</u>	<u>100.5</u>								
Net Requirements	<u>1,500.0</u>			<u>150.0</u>	<u>150.0</u>	<u>150.0</u>	<u>150.0</u>	<u>150.0</u>	<u>750.0</u>	
To Be Financed From:										
Reserves										
Climate Change action plan reserve	150.0			150.0						
Total Reserves	<u>150.0</u>			<u>150.0</u>						
Capital Levy	<u>1,350.0</u>				<u>150.0</u>	<u>150.0</u>	<u>150.0</u>	<u>150.0</u>	<u>750.0</u>	

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-7.05**Division:** Infrastructure Planning - Infrastructure Planning Adm**Climate Adaptation:** Yes**Project Name & Description**

Sanitary Sewer River Crossings

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

The City of Peterborough's sanitary sewer system has three river crossings at, Nassau Mills Road, Burnham Point/Del Crary Park, and Park St/WWTP. All crossings consist of a single pipe with no redundancy. This project will use condition information from investigations of these crossings and future growth projections to determine future capacity needs and consider twinning and/or rehabilitation requirements to improve the resilience of the sanitary system and protect the environment from potential leaks or possible future breaks.

This project will fund further investigations and study of the issue to provide future recommendations to be incorporated in the capital program.

Future capital funding requirements will be identified through this work and captured in future capital budgets.

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Infrastructure Planning - Infrastructure Planning Adm										
Project Description	Sanitary Sewer River Crossings										
Project #	5-7.05										
Expenditures											
Contractual Services		100.0		100.0							
Net Requirements		<u>100.0</u>		<u>100.0</u>							
To Be Financed From:											
Reserves											
Waste Water Reserve Reserve		100.0		100.0							
Total Reserves		<u>100.0</u>		<u>100.0</u>							

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-7.06**Division:** Infrastructure Planning - Infrastructure Planning Adm**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

Watershed Planning Study - Places to Grow Act

Commitments Made

Report IPSEC18-014 endorsed Low Impact Development and provided direction on the legislated requirement for the Watershed Planning Study.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

Through recent legislation associated with the Places to Grow Act, the City is required to complete a comprehensive watershed planning exercise to demonstrate that proposed growth, including the associated servicing, would not negatively impact the water resource system, including the quality and quantity of water. This project scope includes identifying the full life cycle costs of the system and developing options to pay for these costs over the long-term. Municipalities that share an inland water source or receiving water body will coordinate their planning for potable water, stormwater, and wastewater systems based on watershed planning to ensure that the quality and quantity of water is protected, improved, or restored.

This legislated process will require the expertise of a multidisciplinary consulting team. The funding associated with this project will be used for consultant costs and associated city works.

2021 funding is required for additional collaboration and public consultation.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Infrastructure Planning - Infrastructure Planning Adm									
Project Description	Watershed Planning Study - Places to Grow Act									
Project #	5-7.06									
Expenditures										
Contractual Services	530.0	500.0	30.0							
Net Requirements	530.0	500.0	30.0							
To Be Financed From:										
Development Charges										
DC - Roads Related	250.0	250.0								
Total Development Charges	250.0	250.0								
Reserves										
Waste Water Reserve Reserve	280.0	250.0	30.0							
Total Reserves	280.0	250.0	30.0							

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-7.07**Division:** Infrastructure Planning - Infrastructure Planning Adm**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

Asset Management Project

Commitments Made

On March 14, 2016, Council approved Report USEC 16-007 adopting the City's Asset Management Maturity Assessment and Roadmap and approved USEC16-021 adopting the Asset Management Policy.

On March 26, 2018, Council approved USEC18 - 004 the Updated Asset Management Policy and Asset Management Procedure.

Effects on Future Operating Budgets

A full Asset Management program will result in ongoing costs to develop and maintain the Asset Management System and associated data.

Project Detail, Justification & Reference Map

The project involves the implementation of a program and systems to assist asset stewards in managing City assets. This program and system will assist in capital budget preparation, establishing priorities and determining when capital assets should be replaced versus maintained.

The Province's Ten-Year Infrastructure Plan makes it clear that municipalities will be required to develop and file an asset management plan to support future funding applications.

Proposed budget requests will focus on communication plans for Asset Management and organizational alignments of capital projects.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Infrastructure Planning - Infrastructure Planning Adm										
Project Description	Asset Management Project										
Project #	5-7.07										
Expenditures											
Contractual Services		875.0	675.0		200.0						
Net Requirements		875.0	675.0		200.0						
To Be Financed From:											
Reserves											
Infrastructure Planning Services Capital Reserve		100.0	100.0								
Waste Water Reserve Reserve		459.5	359.5		100.0						
Total Reserves		559.5	459.5		100.0						
Capital Levy		315.5	215.5		100.0						

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Infrastructure and Planning Services																	
Arterial Streets																	
Extension of Crawford Dr to Harper Road	5-8.01	14,500.0	10,500.0	4,000.0		4,000.0			3,520.8	479.2							
Water St North Urbanization - Nassau Mills Rd to Woodland Dr	5-8.02	9,550.0	1,950.0	1,000.0		1,000.0			1,000.0						6,600.0	6,600.0	
Lansdowne St Rehabilitation - Park St to Otonabee River	5-8.03	7,850.0	350.0	500.0		500.0				500.0	4,000.0	4,000.0	3,000.0	3,000.0			
Chemong - Parkhill to PWay ROW	5-8.04	37,540.0	8,540.0	200.0		200.0	90.0		110.0		1,800.0	1,800.0	9,000.0	9,000.0	18,000.0	18,000.0	
Lily Lake Area Development Network Improvements	5-8.05	3,362.5		112.5	112.5						250.0	250.0	3,000.0	3,000.0			
Parkhill Rd Reconstruction - George St to Aylmer St	5-8.06	3,100.0									3,100.0	3,100.0					
Television Road Signals - Burnham Meadows	5-8.07	760.0	70.0								690.0	600.0					
Future High Use Arterial Road	5-8.08	77,071.0	3,839.0										4,759.0	4,759.0	68,473.0	68,473.0	
Armour Rd- Nassau Mills Road South to Rotary Trail	5-8.09	21,900.0	900.0										500.0	500.0	20,500.0	18,000.0	
University Rd - Upgrade Arterial	5-8.10	8,600.0											300.0	126.0	8,300.0	3,486.0	
Television Rd - Lansdowne to Parkhill Rd	5-8.11	40,150.0	400.0												39,750.0	39,750.0	
River Road - Hwy7/115 to Lansdowne Street	5-8.12	20,560.0	60.0												20,500.0	20,500.0	
Sherbrooke St-Glenforest to W	5-8.13	20,750.0	3,250.0				243								17,500.0	17,500.0	

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Brealey Drive – Sherbrooke Street to Parkhill Road	5-8.14	13,700.0													13,700.0	13,700.0
Brealey - Lansdowne to Sherbrooke Street	5-8.15	14,300.0	800.0												13,500.0	13,500.0
Ashburnham - McFarlane to Parkhill	5-8.16	13,250.0													13,250.0	8,833.3
Liftlock Development Road Network Improvements	5-8.17	9,250.0													9,250.0	9,250.0
Maria St - Walker Ave to Television Rd	5-8.18	8,250.0													8,250.0	8,250.0
Carnegie Planning Area - E/W Arterial	5-8.19	7,500.0													7,500.0	2,500.0
Pioneer Road Upgrades CleanTech to Cty Rd 4	5-8.20	7,000.0													7,000.0	7,000.0
Lansdowne West - Spillsbury to Clonsilla	5-8.21	7,000.0	800.0												6,200.0	6,200.0
Carnegie Ave Urbanization - Cumberland Rd to North	5-8.22	5,250.0													5,250.0	5,250.0
Carnegie Planning Area N/S Arterial	5-8.23	2,871.0													2,871.0	947.4
Total		354,064.5	31,459.0	5,812.5	112.5	5,700.0	90.0		4,630.8	979.2	9,840.0	9,750.0	20,559.0	20,385.0	286,394.0	267,739.8

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.01**Division:** Engineering - Arterial Streets**Project Name & Description**

Extension of Crawford Drive to Harper Road

Commitments Made

The development of the lands in the area of the Crawford Drive/Parkway intersection was reviewed through an Environmental Assessment in 2012/2013. Final approval of the ESR (Environmental Study Report) was issued in late 2013.

Funds for 2018 and 2019 were pre-committed through Report PLPD17-026 dated May 23, 2017.

Effects on Future Operating Budgets

Increased new infrastructure will increase overall maintenance costs.

Project Detail, Justification & Reference Map

Included in the project scope is the closure of Crawford Drive west of the Harper Road Intersection and a new connection from Crawford Drive to Harper Road northwest of the development lands. The works are to be completed in conjunction with the development of the casino/hotel site and are subject to an external servicing agreement with the Developer.

The 2021 funding request results from added expenses related to ensuring protection of the Natural Heritage features in Harper Park and surrounding area, managing soil contamination and addressing redesign of projects to mitigate stormwater impacts to adjacent property

Phase One work commenced in 2019 and will see all works complete around the Hotel/Casino/Tim Horton's.
Phase 2 work will include the crossing of Harper Creek north connecting to Rye St.

This project is included in the current Development Charge Bylaw.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project	Approved	REQUESTED					2026 to	2031 to
		Total	Pre-2021	2021	2022	2023	2024	2025	2030	2045
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Extension of Crawford Dr to Harper Road									
Project #	5-8.01									
Expenditures										
Contractual Services		14,500.0	10,500.0	4,000.0						
Net Requirements		14,500.0	10,500.0	4,000.0						
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		3,995.3	974.5	3,020.8						
DEBT DC-RoadsRelated		5,250.0	4,750.0	500.0						
Total Debenture Financing		9,245.3	5,724.5	3,520.8						
Development Charges										
DC - Roads Related		58.5	58.5							
Total Development Charges		58.5	58.5							
Reserves										
Development Charges Res		367.0	367.0							
Provincial Gas TAX		90.5	90.5							
Federal Gas Tax		1,408.7	929.5	479.2						
Casino Gaming Reserve		3,200.0	3,200.0							
Total Reserves		5,066.2	4,587.0	479.2						
Capital Levy		130.0	130.0							

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.02**Division:** Engineering - Arterial Streets**Project Name & Description**

Water Street North Urbanization - Nassau Mills Road to Woodland Drive

Commitments Made

The City has collected a nominal amount of funding from previous area developments to construct the signals at the intersection of Woodland Drive and Water Street. Recent developers have also indicated some interest in the project and may contribute to the project, to fully fund the works required to support the developments.

Effects on Future Operating Budgets

Increased new infrastructure will increase overall maintenance costs.

Project Detail, Justification & Reference Map

In support of the new development in the City's north end and the University, the urbanization will provide the level of service required by the area development. This project would involve pavement, curb and gutter, sidewalk(s), storm sewers, and potential for bike lanes, and turning lanes. This project intends to improve the road condition and level of service along the north/south arterial street to an urban cross section.

This project will follow the completion of the EA for the north end in support of development that is ongoing with the Nassau Mills Bridges and realignment of Armour Road project.

In advance of the EA completion and to support development at the intersection of Woodland/Water, intersection improvements via the pre-approved Schedule A municipal Class EA will be constructed by the Developer as external works. The funds required for the intersection improvements over and above the pre-approved funds are being requested in the 2021 allocation.

This project is growth related and is partially funded through the Development Charges.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Water St North Urbanization - Nassau Mills Rd to Woodland Dr									
Project #	5-8.02									
Expenditures										
Contractual Services	9,550.0	1,950.0		1,000.0			3,600.0	3,000.0		
Direct Revenue										
Developer Contributions	220.0	220.0								
Total Direct Revenue	220.0	220.0								
Net Requirements	9,330.0	1,730.0		1,000.0			3,600.0	3,000.0		
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	6,165.0	865.0		500.0			1,800.0	3,000.0		
DEBT DC-RoadsRelated	3,165.0	865.0		500.0			1,800.0			
Total Debenture Financing	9,330.0	1,730.0		1,000.0			3,600.0	3,000.0		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.03**Division:** Engineering - Arterial Streets**Climate Adaptation:** Yes**Project Name & Description**

Lansdowne Street Rehabilitation - Park Street to Otonabee River

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

Due to the age and deteriorating condition of the storm sewers, replacement is required. The critical infrastructure in this area dates back to the 1940s and is approaching end of expected lifecycle.

The project involves replacing some of the sanitary sewers and pavement structure, as well as addressing some flood mitigation and improvements to the storm sewers. The project will also look at roadway tapers and intersection improvements.

Phase One: Detailed design

Phase Two: Utility relocation and property acquisition

Phase Three: Construction

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Lansdowne St Rehabilitation - Park St to Otonabee River									
Project #	5-8.03									
Expenditures										
Contractual Services	7,850.0	350.0	500.0	4,000.0	3,000.0					
Net Requirements	<u>7,850.0</u>	<u>350.0</u>	<u>500.0</u>	<u>4,000.0</u>	<u>3,000.0</u>					
To Be Financed From:										
Reserves										
Capital Levy Reserve	50.0	50.0								
FRMP - Capital Levy Reserve	400.0			200.0	200.0					
Waste Water Reserve Reserve	4,900.0	200.0	500.0	2,600.0	1,600.0					
Total Reserves	<u>5,350.0</u>	<u>250.0</u>	<u>500.0</u>	<u>2,800.0</u>	<u>1,800.0</u>					
Capital Levy	<u>2,500.0</u>	<u>100.0</u>		<u>1,200.0</u>	<u>1,200.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.04**Division:** Engineering - Arterial Streets**Project Name & Description**

Chemong Road - Parkhill Road West to the Parkway

Commitments Made

The environmental assessment and design work was approved as part of the previous capital budget.

The Schedule 'C' Class Environmental Assessment for this project was completed in 2014.

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

Major reconstruction to widen this road to five lanes of traffic, by the introduction of a centre turn lane, was identified in the Transportation Master Plan. This work is necessitated by an increase in traffic volumes and access to commercial properties.

The Municipal Class EA has been approved. Property acquisition and utility relocation funding will be ongoing as the project proceeds.

The project cost will be more accurately defined during completion of the detailed design. It is also anticipated that flood reduction measures will be required, as well as sanitary sewer upgrades, to address the bottleneck issue within the existing system.

The 2021 funding will be used for easements/property acquisitions and design development.

This project is to be partially funded through Development Charges (City Wide Uniform Charge and Area Specific).

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Chemong - Parkhill to PWay ROW									
Project #	5-8.04									
Expenditures										
Contractual Services	37,540.0	8,540.0	200.0	1,800.0	9,000.0	9,000.0	9,000.0	9,000.0		
Total Direct Revenue	<u>37,540.0</u>	<u>8,540.0</u>	<u>200.0</u>	<u>1,800.0</u>	<u>9,000.0</u>	<u>9,000.0</u>	<u>9,000.0</u>	<u>9,000.0</u>		
Net Requirements	<u>37,540.0</u>	<u>8,540.0</u>	<u>200.0</u>	<u>1,800.0</u>	<u>9,000.0</u>	<u>9,000.0</u>	<u>9,000.0</u>	<u>9,000.0</u>		
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	8,535.0	1,335.0					2,000.0	5,200.0		
DEBT DC-RoadsRelated	8,813.8	2,700.0	110.0	640.0	1,763.8	1,800.0	1,800.0	1,800.0		
DEBT DC-Chemong West	268.7				268.7					
DEBT DC-CarnegieWest	89.6				89.6					
Total Debenture Financing	<u>17,707.1</u>	<u>4,035.0</u>	<u>110.0</u>	<u>640.0</u>	<u>2,122.1</u>	<u>3,800.0</u>	<u>7,000.0</u>	<u>7,000.0</u>		
Development Charges										
DC - Roads Related	3,169.0	3,169.0								
DC - Chemong East	171.7				171.7					
Total Development Charges	<u>3,340.7</u>	<u>3,169.0</u>				<u>171.7</u>				
Reserves										
Federal Gas Tax	14,657.9	872.1		1,160.0	5,425.8	5,200.0	2,000.0			
FRMP - Capital Levy Reserve	1,280.4				1,280.4					
Waste Water Reserve Reserve	463.9	463.9								
Total Reserves	<u>16,402.2</u>	<u>1,336.0</u>		<u>1,160.0</u>	<u>6,706.2</u>	<u>5,200.0</u>	<u>2,000.0</u>	<u>2,000.0</u>		
Capital Levy	<u>90.0</u>		<u>90.0</u>							

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.05**Division:** Engineering - Arterial Streets**Project Name & Description**

Lily Lake Area Development Network Improvements

Commitments Made

Approval of Draft Plan conditions identified work associated to this project.

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

Through draft plan approval of the subdivision within Lily Lake Secondary Planning area, various road improvements have been identified and are required for the area.

The current projects identified include but are not limited to;

Various improvement along Fairbairn St

Various improvements along Lily Lake Road

Various improvement along Towerhill Rd

Signalization or alternative at Towerhill Rd and Fairbairn St

Sidewalk installation on Fairbairn St from Parkview Dr to Highland Rd

Funds for the design and construction of the pedestrian network on Fairbairn St and the detailed design and construction of the intersection improvements at Towerhill Rd and Fairbairn St. have been included in the budget forecast.

The 2021 budget will allow detailed design to proceed for the sidewalk facilities on Fairbairn St. This sidewalk will allow pedestrian traffic to access signalized intersections. Further detail regarding design, property acquisition and construction schedules will be provided in future budgets.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Lily Lake Area Development Network Improvements									
Project #	5-8.05									
Expenditures										
Contractual Services	3,362.5			112.5	250.0	3,000.0				
Direct Revenue										
Developer Contributions	112.5			112.5						
Total Direct Revenue	112.5			112.5						
Net Requirements	3,250.0				250.0	3,000.0				
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	1,625.0				125.0	1,500.0				
DEBT DC-RoadsRelated	1,625.0				125.0	1,500.0				
Total Debenture Financing	3,250.0				250.0	3,000.0				

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.06**Division:** Engineering - Arterial Streets**Climate Adaptation:** Yes**Project Name & Description**

Parkhill Rd Reconstruction - George St to Rubidge St

Commitments Made**Effects on Future Operating Budgets**

Reduce maintenance cost to both road and underground infrastructure.

Project Detail, Justification & Reference Map

This project was initially proposed as a road re-surfacing initiative. Upon further review of the underground infrastructure condition, it was apparent that the storm and sanitary sewers required replacing as opposed to trench-less rehabilitation. The PUC has also expressed concerns over the watermain condition.

To be less disruptive and most cost effective, the project scope now includes replacement of the critical infrastructure.

Project needs to be complete prior to Chemong Road re-widening to avoid significant traffic impacts created by future construction work on Chemong Road. Additional resurfacing is proposed to be added from previous description (from Aylmer to Rubidge) to align with construction limits of Chemong Road project.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Parkhill Rd Reconstruction - George St to Aylmer St									
Project #	5-8.06									
Expenditures										
Contractual Services		3,100.0			3,100.0					
Net Requirements		<u>3,100.0</u>			<u>3,100.0</u>					
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		1,300.0			1,300.0					
Debenture - WWRF		1,800.0			1,800.0					
Total Debenture Financing		<u>3,100.0</u>			<u>3,100.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-8.07

Division: Engineering - Arterial Streets

Project Name & Description

Television Road Signals - Burnham Meadows

Commitments Made

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

Through the development of the subdivision external to the City limits on Television Road, the City collected a portion of the required funding from the Developer of the Burnham Meadows Subdivision for the installation of signals. The signal installation will also support growth and development of the Liftlock Secondary Planning area and the City can potentially recover a portion of costs associated to the signal as a local service to the development.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to 2030	2031 to 2045
		Total	Pre-2021	2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Television Road Signals - Burnham Meadows									
Project #	5-8.07									
Expenditures										
Contractual Services		760.0	70.0		690.0					
Direct Revenue										
Developer Contributions		125.0	35.0		90.0					
Total Direct Revenue		<u>125.0</u>	<u>35.0</u>		<u>90.0</u>					
Net Requirements		<u>635.0</u>	<u>35.0</u>		<u>600.0</u>					
To Be Financed From:										
Debentures										
DEBT DC-RoadsRelated		600.0			600.0					
Total Debenture Financing		<u>600.0</u>			<u>600.0</u>					
Capital Levy		<u>35.0</u>	<u>35.0</u>							

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-8.08

Division: Engineering - Arterial Streets

Climate Mitigation: Yes

Project Name & Description

Future High Use Arterial Road

Commitments Made

On March 24, 2014, the Environmental Study Report for The Parkway was submitted to the Ministry of the Environment and Climate Change. The Minister of the Environment and Climate Change responded on September 16, 2016 and issued an order requiring the City to undertake a full Individual Environmental Assessment for The Parkway or any alternative to it.

Effects on Future Operating Budgets

Increased road length and new structures will increase overall maintenance costs

Project Detail, Justification & Reference Map

Various options have been reviewed to move the matter of transportation forward in the City of Peterborough under the Minister's Order. Report USDIR18-002 outlined many "feeder" studies to be undertaken as input to an updated Master Transportation Plan. In response to IPSTR19-003, Council approved a revised motion for staff to begin the required work for an updated TMP, present the Framework for the Study to Council by Dec 2019 and present the findings of the study to Council by Nov 2021.

The Transportation Master Plan has commenced in 2020 with the first round of community consultation completed in September 2020. Together with the various feeder studies in progress (East Side Transportation Study, North End EA, Cycling Master Plan), the TMP will provide the City with an up-to-date transportation plan and a well rounded, documented move forward scenario.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045						
				2021	2022	2023	2024	2025								
Department	Infrastructure and Planning Services															
Division	Engineering - Arterial Streets															
Project Description	Future High Use Arterial Road															
Project #	5-8.08															
Expenditures																
Contractual Services	77,071.0	3,839.0														
Total Direct Revenue	<u>77,071.0</u>	<u>3,839.0</u>										<u>4,759.0</u>	<u>1,768.0</u>	<u>3,520.0</u>	<u>35,609.0</u>	<u>27,576.0</u>
Net Requirements	<u>77,071.0</u>	<u>3,839.0</u>			<u>4,759.0</u>	<u>1,768.0</u>	<u>3,520.0</u>	<u>35,609.0</u>	<u>27,576.0</u>							
To Be Financed From:																
Debentures																
Deb Rev-Tax Supported	35,026.6				1,160.1	884.0	1,760.0	17,804.5	13,418.0							
DEBT DC-RoadsRelated	40,933.5	3,228.1			3,098.9	884.0	1,760.0	17,804.5	14,158.0							
Total Debenture Financing	<u>75,960.1</u>	<u>3,228.1</u>			<u>4,259.0</u>	<u>1,768.0</u>	<u>3,520.0</u>	<u>35,609.0</u>	<u>27,576.0</u>							
Reserves																
Waste Water Reserve Reserve	<u>500.0</u>				<u>500.0</u>											
Total Reserves	<u>500.0</u>				<u>500.0</u>											
Capital Levy	<u>610.9</u>	<u>610.9</u>														

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services**Budget Reference #:** 5-8.09**Division:** Engineering - Arterial Streets**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

Armour Road - Nassau Mills Road South to Rotary Trail

Commitments Made**Effects on Future Operating Budgets**

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

This project involves major construction of a partially realigned two lane urban arterial, and will include sidewalk(s), bike way, storm sewer, etc.

Construction timing is dependent upon the rate of development in the Auburn Secondary Plan area, particularly the former Dafoe property. In order to facilitate the stormwater management as well as access points to the secondary plan development, the City has secured funds for the EA. This EA will provide the ultimate Armour Road alignment, access points for the developers and stormwater management in the area of a Zone 1 water intake area.

The project costs will be more accurately defined during completion of the EA. This EA will also include the Nassau Mills Bridge over the Otonabee River, and the Nassau Mills Bridge over the Trent Severn, taking a holistic approach to planning the area road network. Greater detail on design, utility relocation and property acquisition and construction will be provided when more information is available regarding the timing for development of the Auburn Secondary Plan area.

The EA is expected to be completed in 2020.

This project is partially funded through the Development Charges Reserve (City Wide Uniform Charge).

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Armour Rd- Nassau Mills Road South to Rotary Trail									
Project #	5-8.09									
Expenditures										
Contractual Services	21,900.0	900.0								
Direct Revenue										
Developer Contributions	2,500.0									
Total Direct Revenue	2,500.0									
Net Requirements	19,400.0	900.0								
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	5,764.0	263.5								
DEBT DC-RoadsRelated	11,593.5	594.0								
Total Debenture Financing	17,357.5	857.5								
Reserves										
Waste Water Reserve Reserve	2,042.5	42.5								
Total Reserves	2,042.5	42.5								

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.10**Division:** Engineering - Arterial Streets**Project Name & Description**

University Road Upgrade to High Capacity Arterial

Commitments Made**Effects on Future Operating Budgets**

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

This project was recommended in the 2011 Transportation Master Plan. The project involves the upgrade of University Road from a medium capacity arterial to a high capacity arterial road from County Road 4 to Nassau Mills. The City will have to work in conjunction with the County to achieve the results recommended in the Transportation Master Plan.

The City is responsible for approximately 42% of the total costs.

The project is identified in the City's Development Charges By-Law.

The City is currently undergoing a North End Transportation Study and an East Side Transportation Study that will provide additional insight to the use and timing of this connecting link. Following the transportation study;

Phase one: Detailed design

Phase Two: Utility relocation and property acquisitions

Phase Three: Construction

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	University Rd - Upgrade Arterial									
Project #	5-8.10									
Expenditures										
Contractual Services	8,600.0					300.0	8,300.0			
Direct Revenue										
Other Mun-grants & fees	4,988.0					174.0	4,814.0			
Total Direct Revenue	<u>4,988.0</u>					<u>174.0</u>	<u>4,814.0</u>			
Net Requirements	<u>3,612.0</u>					<u>126.0</u>	<u>3,486.0</u>			
To Be Financed From:										
Development Charges										
DC - Roads Related	1,806.0					63.0	1,743.0			
Total Development Charges	<u>1,806.0</u>					<u>63.0</u>	<u>1,743.0</u>			
Reserves										
Federal Gas Tax	1,806.0					63.0	1,743.0			
Total Reserves	<u>1,806.0</u>					<u>63.0</u>	<u>1,743.0</u>			

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.11**Division:** Engineering - Arterial Streets**Project Name & Description**

Television Road Widening – Lansdowne Street to Parkhill Road

Commitments Made**Effects on Future Operating Budgets**

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

This project was recommended in the 2011 Transportation Master Plan. The project involves the widening of Television Road to four lanes from Lansdowne Street to Parkhill Road and the realignment of Television Road at Parkhill Road to County Road 4. Significant property acquisition will be required for the realignment of Television Road between Old Norwood Road and Parkhill Road within the County.

Bridge inspections, which are completed every two years, have identified the crossing of Meade Creek to be of the highest priority. The funding requested in 2018 was required to initiate the Environmental Assessment of Television Road, in order to determine the ultimate configuration of the crossing. The 2021 funding request has been transferred to an individual project Television Road Bridge over South Meade Creek.

Following the environmental assessment and reconstruction of the bridge, phase one of the project will commence with detailed design of the ultimate Television Road.

Phase two will involve property acquisitions and utility relocation. Phase three will involve construction and realignment of the road.

The project is partially funded through the City's Development Charges By-Law.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Arterial Streets										
Project Description	Television Rd - Lansdowne to Parkhill Rd										
Project #	5-8.11										
Expenditures											
Contractual Services		40,150.0	400.0					1,000.0	38,750.0		
Net Requirements		<u>40,150.0</u>	<u>400.0</u>					<u>1,000.0</u>	<u>38,750.0</u>		
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported		19,375.0							19,375.0		
DEBT DC-RoadsRelated		20,575.0	200.0					1,000.0	19,375.0		
Total Debenture Financing		<u>39,950.0</u>	<u>200.0</u>					<u>1,000.0</u>	<u>38,750.0</u>		
Reserves											
Bridge Reserve		200.0	200.0								
Total Reserves		<u>200.0</u>	<u>200.0</u>								

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services**Budget Reference #:** 5-8.12**Division:** Engineering - Arterial Streets**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

River Road - Hwy7/115 to Lansdowne Street

Commitments Made**Effects on Future Operating Budgets**

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

Reconstruction and urbanization of River Road is required to service the area development, and highway traffic from the interchange. The project is identified as a three-lane cross-section roadway providing centre turn lane opportunities for existing entrances. This project would involve pavement, curb and gutter, sidewalk(s), storm sewers, and potential for bike lanes, sanitary sewers, and turning lanes. Sanitary sewers along this section of road will need upgrading and re-routing from private property to the road allowance

Previous funding was used for a detailed sanitary study to identify the best possible means of conveying flows for this area. The remaining funding for the project is intended to improve the road condition and level of service along the north/south arterial street to an urban cross section.

This project is partially funded through the Development Charges Reserve.

Phase One: A detailed sanitary study to review the feasibility of relocating the trunk sanitary sewer from the rear yards of private property.

Phase Two: Utility relocation and property acquisition

Phase Three: Construction

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	River Road - Hwy7/115 to Lansdowne Street									
Project #	5-8.12									
Expenditures										
Contractual Services		20,560.0	60.0						20,500.0	
Net Requirements		<u>20,560.0</u>	<u>60.0</u>						<u>20,500.0</u>	
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		7,000.0							7,000.0	
DEBT DC-RoadsRelated		7,000.0							7,000.0	
Total Debenture Financing		<u>14,000.0</u>							<u>14,000.0</u>	
Development Charges										
DC - Roads Related		600.0							600.0	
Total Development Charges		<u>600.0</u>							<u>600.0</u>	
Reserves										
Waste Water Reserve Reserve		5,360.0	60.0						5,300.0	
Total Reserves		<u>5,360.0</u>	<u>60.0</u>						<u>5,300.0</u>	
Capital Levy		<u>600.0</u>							<u>600.0</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.13**Division:** Engineering - Arterial Streets**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

Sherbrooke Street - Glenforest Boulevard to West City Limit

Commitments Made

Council, at its meeting of October 1, 2012, directed staff to finalize the Class Environmental Assessment to Reconstruct/Widen Sherbrooke Street. The Environmental Study was posted in 2014.

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

This project will involve asphalt pavement, concrete curb and gutter, sidewalk(s), bike lanes, storm and sanitary sewers, turning lanes and signalization. The project is to improve the road condition along the east/west arterial street to an urban cross section including active transportation facilities.

This project also includes the sanitary sewer and urbanization of Hywood Road.

The project costs will be more accurately defined upon completion of detailed design.

Funds were requested in 2014 for the detailed design and preliminary property acquisitions. Additional funds were requested in 2017/2019 for the required property acquisitions. Utility relocation and construction are scheduled for 2021/2022/2023/2024 after the completion of the Parkhill Road West reconstruction project to avoid coinciding road closures.

This project is to be partially funded through Development Charges (City Wide Uniform Charge) and wastewater reserve.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Sherbrooke St-Glenforest to W									
Project #	5-8.13									
Expenditures										
Contractual Services	20,750.0	3,250.0				500.0	1,000.0	16,000.0		
Net Requirements	20,750.0	3,250.0				500.0	1,000.0	16,000.0		
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	4,973.8					166.7	333.3	4,473.8		
DEBT DC-RoadsRelated	5,753.0	2,585.0				166.7	333.3	2,668.0		
Total Debenture Financing	10,726.8	2,585.0				333.3	666.7	7,141.8		
Development Charges										
DC - Roads Related	3,726.2	200.0						3,526.2		
Total Development Charges	3,726.2	200.0						3,526.2		
Reserves										
Federal Gas Tax	385.0	385.0								
Infrastructure Planning Services Capital Reserve	80.0	80.0								
Waste Water Reserve Reserve	5,832.0					166.7	333.3	5,332.0		
Total Reserves	6,297.0	465.0				166.7	333.3	5,332.0		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.14**Division:** Engineering - Arterial Streets**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

Brealey Drive – Sherbrooke Street to Parkhill Road

Commitments Made**Effects on Future Operating Budgets**

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

This work is identified in the current Development Charges By-Law and is required to reconstruct Brealey Drive to current urban standards. The project is identified as a three-lane cross-section providing center turn lane opportunities for existing entrances. The project will also involve asphalt pavement, concrete curb and gutter, sidewalk(s), bike lanes, storm sewers and turning lanes with signalization.

Phase One: Detailed design

Phase Two: Utility relocation and property acquisition

Phase Three: Construction

This project will proceed upon the completion of the following major reconstruction projects;

Parkhill Road Reconstruction - Ravenwood to Brealey

Sherbrooke Street Reconstruction - Glenforest to Brealey

Brealey Road Reconstruction - Lansdowne to Sherbrooke

Lansdowne Street Reconstruction - Spillsbury to Clonsilla

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Brealey Drive – Sherbrooke Street to Parkhill Road									
Project #	5-8.14									
Expenditures										
Contractual Services		13,700.0					500.0	1,200.0	12,000.0	
Net Requirements		<u>13,700.0</u>					<u>500.0</u>	<u>1,200.0</u>	<u>12,000.0</u>	
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		9,080.0					333.3	746.7	8,000.0	
Total Debenture Financing		<u>9,080.0</u>					<u>333.3</u>	<u>746.7</u>	<u>8,000.0</u>	
Development Charges										
DC - Roads Related		4,620.0					166.7	453.3	4,000.0	
Total Development Charges		<u>4,620.0</u>					<u>166.7</u>	<u>453.3</u>	<u>4,000.0</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.15**Division:** Engineering - Arterial Streets**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

Brealey Drive – Lansdowne Street West to Sherbrooke Street

Commitments Made**Effects on Future Operating Budgets**

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

This work is identified in the current Development Charges By-Law. The project is identified as a three-lane cross-section roadway providing centre turn lane opportunities for existing entrances. The project also involves asphalt pavement, concrete curb and gutter, sidewalk(s), bike lanes, storm sewers and turning lanes with signalization. This project is a continuation of the Brealey Street project to the south and will incorporate similar principals.

Phase one: Detailed design is ongoing and has prior budget approval.

Phase Two: Utility relocation and property acquisition

Phase Three: Construction, which will be completed over two construction seasons.

The timing of this project is contingent on the Parkhill Road Reconstruction and Sherbrooke St reconstruction projects to avoid conflicting road closures.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Brealey - Lansdowne to Sherbrooke Street									
Project #	5-8.15									
Expenditures										
Contractual Services		14,300.0	800.0						13,500.0	
Net Requirements		<u>14,300.0</u>	<u>800.0</u>						<u>13,500.0</u>	
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		4,385.0	535.0						3,850.0	
DEBT DC-RoadsRelated		2,375.0							2,375.0	
Total Debenture Financing		<u>6,760.0</u>	<u>535.0</u>						<u>6,225.0</u>	
Development Charges										
DC - Roads Related		2,475.0	100.0						2,375.0	
Total Development Charges		<u>2,475.0</u>	<u>100.0</u>						<u>2,375.0</u>	
Reserves										
Development Charges Res		165.0	165.0							
Federal Gas Tax		900.0							900.0	
Waste Water Reserve Reserve		4,000.0							4,000.0	
Total Reserves		<u>5,065.0</u>	<u>165.0</u>						<u>4,900.0</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.16**Division:** Engineering - Arterial Streets**Project Name & Description**

Ashburnham Drive – McFarlane Ave to Parkhill Rd

Commitments Made**Effects on Future Operating Budgets**

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

This project consists of two phases.

Phase One: The reconstruction and possible realignment of Ashburnham Drive from Maniece Avenue to MacFarlane Avenue.

Phase Two: The additional two-lane extension east of the Trent Canal from MacFarlane Avenue to Parkhill Road East to expand arterial capacity to serve the Liftlock Secondary Plan growth area south of the Old Norwood Road.

The City is undergoing an East Side Transportation Study that will provide additional insight to the use, alignment and timing of the project. A portion of the Liftlock Secondary Plan is contingent on the results of this study for the possible realignment of Ashburnham Road further east away from the Lift Lock.

Following the transportation study, further detail regarding design, property acquisition and construction schedules will be provided in future budgets.

This project was identified in the 2011 Transportation Master Plan and reflected as development driven and implemented.

This project is partially funded through the City's Development Charges By-Law.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Arterial Streets										
Project Description	Ashburnham - McFarlane to Parkhill										
Project #	5-8.16										
Expenditures											
Contractual Services		13,250.0						250.0	13,000.0		
Direct Revenue											
Developer Contributions		4,416.7						84.0	4,332.7		
Total Direct Revenue		4,416.7						84.0	4,332.7		
Net Requirements		8,833.3						166.0	8,667.3		
To Be Financed From:											
Debentures											
DEBT DC-RoadsRelated		8,833.3						166.0	8,667.3		
Total Debenture Financing		8,833.3						166.0	8,667.3		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.17**Division:** Engineering - Arterial Streets**Project Name & Description**

Liftlock Area Development Road Network Improvements

Commitments Made

Approval of Draft Plan conditions identified work associated to this project.

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

Through draft plan approval of the subdivision within Liftlock Secondary Planning area, various road improvements have been identified and are required for the area. The City is also in the process of completing a broader East Side Area Transportation Study, report IPSTR19-006, which will influence projects identified.

The current projects identified include but are not limited to;

Ashburnham Rd realignment/reconstruction away from the Liftlock (under separate project)
Old Norwood Rd reconstruction and Signals at Television Rd and Old Norwood Rd
Potential signals at Parkhill Rd and Television Rd
Potential signals to align with Township subdivision

Further detail regarding design, property acquisition and construction schedules will be provided in future budgets.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Liftlock Development Road Network Improvements									
Project #	5-8.17									
Expenditures										
Contractual Services		9,250.0					250.0	500.0	8,500.0	
Net Requirements		<u>9,250.0</u>					<u>250.0</u>	<u>500.0</u>	<u>8,500.0</u>	
To Be Financed From:										
Development Charges										
DC - Roads Related		4,625.0					125.0	250.0	4,250.0	
Total Development Charges		<u>4,625.0</u>					<u>125.0</u>	<u>250.0</u>	<u>4,250.0</u>	
Capital Levy		<u>4,625.0</u>					<u>125.0</u>	<u>250.0</u>	<u>4,250.0</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.18**Division:** Engineering - Arterial Streets**Project Name & Description**

Maria Street - Walker Avenue to Television Road

Commitments Made**Effects on Future Operating Budgets**

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

Extension of the urban collector street to provide for the additional traffic generated as a result of ongoing residential development within the Television Road area.

The final section of land for the road extension has been secured, in accordance with the Official Plan, as a condition of Draft Plan approval of the final phase of the Foxmeadow Subdivision. Construction of the road will require Class Environmental Assessment approval.

The City is currently undergoing an East Side Transportation Study that will provide additional insight to the use and timing of this east-west connecting link. Following the transportation study;

Phase One: Class EA

Phase Two: Detailed design and utility locates

Phase Three: Construction

This project is partially funded through the Development Charges Reserve.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Arterial Streets										
Project Description	Maria St - Walker Ave to Television Rd										
Project #	5-8.18										
Expenditures											
Contractual Services		8,250.0					750.0	7,500.0			
Net Requirements		<u>8,250.0</u>					<u>750.0</u>	<u>7,500.0</u>			
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported		4,125.0					375.0	3,750.0			
DEBT DC-RoadsRelated		3,750.0						3,750.0			
Total Debenture Financing		<u>7,875.0</u>					<u>375.0</u>	<u>7,500.0</u>			
Development Charges											
DC - Roads Related		375.0					375.0				
Total Development Charges		<u>375.0</u>					<u>375.0</u>				

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-8.19

Division: Engineering - Arterial Streets

Project Name & Description

Carnegie Planning Area East/West Arterial

Commitments Made

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

This work is identified in the current Development Charges By-Law and is required for the over sizing of a new, two lane arterial road in an east-west orientation through the Carnegie Planning Area. Final alignment will be established through Draft Plan approval(s).

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Arterial Streets										
Project Description	Carnegie Planning Area - E/W Arterial										
Project #	5-8.19										
Expenditures											
Contractual Services		7,500.0			7,500.0						
Direct Revenue											
Developer Contributions		5,000.0			5,000.0						
Total Direct Revenue		<u>5,000.0</u>			<u>5,000.0</u>						
Net Requirements		<u>2,500.0</u>			<u>2,500.0</u>						
To Be Financed From:											
Debentures											
DEBT DC-RoadsRelated		2,500.0			2,500.0						
Total Debenture Financing		<u>2,500.0</u>			<u>2,500.0</u>						

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.20**Division:** Engineering - Arterial Streets**Project Name & Description**

Pioneer Road Upgrades CleanTech to County Road 4

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

The development of the CleanTech Commons requires ongoing municipal investment to ensure that adequate municipal services are in place to support future employment growth.

Phase one: Construction to service the majority of CleanTech Commons was completed in 2018 from Nassau Mills Road to the west entrance of Clean Tech Commons.

Phase two: To extend external servicing to the east and upgrade Pioneer Road to County Road 4. Design of the remaining road is scheduled for phase two when development demands require this section of road.

Phase Three: Property acquisition and utility relocation

Phase Four: Construction

Upgrades to Pioneer Road was identified in the 2011 Transportation Master Plan and requires the upgrade of Pioneer Road to a higher order road. The project is currently identified in the City's Development Charges By-law.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Pioneer Road Upgrades CleanTech to Cty Rd 4									
Project #	5-8.20									
Expenditures										
Contractual Services		7,000.0							7,000.0	
Net Requirements		<u>7,000.0</u>							<u>7,000.0</u>	
To Be Financed From:										
Debentures										
DEBT DC-RoadsRelated		3,000.0							3,000.0	
Total Debenture Financing		<u>3,000.0</u>							<u>3,000.0</u>	
Reserves										
Waste Water Reserve Reserve		1,000.0							1,000.0	
Total Reserves		<u>1,000.0</u>							<u>1,000.0</u>	
Capital Levy		<u>3,000.0</u>							<u>3,000.0</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.21**Division:** Engineering - Arterial Streets**Project Name & Description**

Lansdowne Street West – Spillsbury Drive to Clonsilla Avenue

Commitments Made

Funds to initiate detailed design were allocated in the 2017 budget.

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

This project will include the construction of a centre turn lane, improvements to the Spillsbury Drive/Kawartha Heights Boulevard/Lansdowne Street West intersection as well as the elimination of the channelized southbound right-turn at Clonsilla Avenue/Lansdowne Street West.

Detailed design is ongoing as phase one. Phase two will include utility relocation and property acquisition. Phase three will be the construction of the road and intersection improvements.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Arterial Streets									
Project Description	Lansdowne West - Spillsbury to Clonsilla									
Project #	5-8.21									
Expenditures										
Contractual Services		7,000.0	800.0				200.0	1,000.0	5,000.0	
Net Requirements		<u>7,000.0</u>	<u>800.0</u>				<u>200.0</u>	<u>1,000.0</u>	<u>5,000.0</u>	
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		6,800.0	600.0				200.0	1,000.0	5,000.0	
Total Debenture Financing		<u>6,800.0</u>	<u>600.0</u>				<u>200.0</u>	<u>1,000.0</u>	<u>5,000.0</u>	
Capital Levy		<u>200.0</u>	<u>200.0</u>							

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-8.22**Division:** Engineering - Arterial Streets**Project Name & Description**

Carnegie Ave Urbanization - Cumberland Rd to North Condo

Commitments Made**Effects on Future Operating Budgets**

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

With the development of both Heritage Park subdivision to the west and the Condo Development to the east, this section of Carnegie Avenue has increased in various modes of transportation. In order to properly provide safe transportation alternative, urbanization of the road is required.

This section of road has been identified in the current development charges study for urbanization. The urbanization of Carnegie Avenue will encourage pedestrians from the road side shoulder to a sidewalk on both sides of the street. Cycling lanes will be reviewed in conjunction with the project, along with potential connectivity to the existing trail to the west and on Cumberland Road.

Accessibility Considerations

The project aids in mobility and accessibility.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Arterial Streets										
Project Description	Carnegie Ave Urbanization - Cumberland Rd to North Condo										
Project #	5-8.22										
Expenditures											
Contractual Services		5,250.0			5,250.0						
Net Requirements		<u>5,250.0</u>			<u>5,250.0</u>						
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported		2,625.0			2,625.0						
Total Debenture Financing		<u>2,625.0</u>			<u>2,625.0</u>						
Development Charges											
DC - Roads Related		2,625.0			2,625.0						
Total Development Charges		<u>2,625.0</u>			<u>2,625.0</u>						

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-8.23

Division: Engineering - Arterial Streets

Project Name & Description

Carnegie Planning Area North/South Arterial

Commitments Made

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

This work is included in the current Development Charges By-Law and is required for the over sizing of a new two-lane arterial road in a north-south orientation through the Carnegie Planning Area. Final alignment will be established through Draft Plan approval(s).

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Arterial Streets										
Project Description	Carnegie Planning Area N/S Arterial										
Project #	5-8.23										
Expenditures											
Contractual Services		2,871.0					2,871.0				
Direct Revenue											
Developer Contributions		1,923.6					1,923.6				
Total Direct Revenue		<u>1,923.6</u>					<u>1,923.6</u>				
Net Requirements		<u>947.4</u>					<u>947.4</u>				
To Be Financed From:											
Debentures											
DEBT DC-RoadsRelated		947.4					947.4				
Total Debenture Financing		<u>947.4</u>					<u>947.4</u>				

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Bridges																
Simcoe Street Culvert at Parking Garage	5-9.01	3,000.0		1,500.0		1,500.0			1,500.0		1,500.0	1,500.0				
Television Road Bridge over South Meade Creek	5-9.02	6,000.0		200.0		200.0			200.0		5,800.0	5,800.0				
OSIM Bridge Preventative Maintenance Program	5-9.03	12,351.2	2,351.2										1,250.0	1,250.0	8,750.0	8,750.0
Nassau Mills Bridge over Otonabee River	5-9.04	11,820.0	300.0												11,520.0	11,520.0
Nassau Mills Bridge over Trent Severn	5-9.05	9,550.0	300.0												9,250.0	9,250.0
Total		42,721.2	2,951.2	1,700.0		1,700.0			1,700.0		7,300.0	7,300.0	1,250.0	1,250.0	29,520.0	29,520.0

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-9.01**Division:** Engineering - Bridges**Climate Adaptation:** Yes**Project Name & Description**

Simcoe Street Culvert at Parking Garage

Commitments Made

Rehabilitation of the Simcoe Street Parking Garage will allow access to the Jackson Creek Culvert under the facility to be able to be maintained and refurbished.

The 2021 budget includes a request for a pre-commitment of \$1.5 million of 2022 Capital funding for this project.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

The structural integrity, safety and condition of every bridge is determined through the performance of at least one inspection every two years under the direction of a professional engineer and in accordance with the Ontario Structure Inspection Manual (OSIM), published by the Ministry of Transportation (O. Reg. 160/02, s. 2 (2)).

The Jackson Creek Culvert under the Simcoe Street Parking garage is one of the structures in most need as identified by the 2018 OSIM Report. The structure is difficult to access creating poor constructability conditions for the rehabilitation work. The opportunity to coordinate the work with the Simcoe Street Parking garage rehabilitation will provide for the required access.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Bridges										
Project Description	Simcoe Street Culvert at Parking Garage										
Project #	5-9.01										
Expenditures											
Contractual Services		3,000.0		1,500.0	1,500.0						
Net Requirements		<u>3,000.0</u>		<u>1,500.0</u>	<u>1,500.0</u>						
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported		3,000.0		1,500.0	1,500.0						
Total Debenture Financing		<u>3,000.0</u>		<u>1,500.0</u>	<u>1,500.0</u>						

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-9.02

Division: Engineering - Bridges

Climate Adaptation: Yes

Project Name & Description

Television Road Bridge over South Meade Creek

Commitments Made

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

Bridge inspections, which are completed every two years, have identified the Television Road crossing of South Meade Creek to be of the highest priority.

This project is a continuation of the environmental assessment initiated under the Television Road - Lansdowne Rd to Parkhill Rd project and includes the design and construction of a new bridge. This project has been separated from the general OSIM Bridge Preventive Maintenance Program.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Bridges									
Project Description	Television Road Bridge over South Meade Creek									
Project #	5-9.02									
Expenditures										
Contractual Services	6,000.0	200.0	5,800.0							
Net Requirements	6,000.0	200.0	5,800.0							
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	3,000.0	100.0	2,900.0							
Deb Revenue - Development Chgs	3,000.0	100.0	2,900.0							
Total Debenture Financing	6,000.0	200.0	5,800.0							

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-9.03**Division:** Engineering - Bridges**Project Name & Description**

OSIM Bridge Preventative Maintenance Program

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

The structural integrity, safety and condition of every bridge is determined through the performance of at least one inspection every two years under the direction of a professional engineer and in accordance with the Ontario Structure Inspection Manual (OSIM), published by the Ministry of Transportation (O. Reg. 160/02, s. 2 (2)).

The long-term planning of our bridge assets capital program is essential in delivering a reliable and safe crossing to residents and goods through the City. This project reflects the annual funds required as proposed in the OSIM bridge inspection report for the rehabilitation of our structures over the next ten years. Amounts for 2021 and 2022 have been directed into two specific priority projects: Simcoe St. Culvert and Television Road over South Meade Creek.

Following the condition inspection, City staff developed a capital program that reflects the needs identified to maintain our structures in good repair. On average, the project funds accommodate the major rehabilitation of 1-3 structures per year and minor rehabilitation to several others.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Bridges									
Project Description	OSIM Bridge Preventative Maintenance Program									
Project #	5-9.03									
Expenditures										
Contractual Services	12,351.2	2,351.2				1,250.0	1,250.0	1,250.0	6,250.0	
Net Requirements	<u>12,351.2</u>	<u>2,351.2</u>				<u>1,250.0</u>	<u>1,250.0</u>	<u>1,250.0</u>	<u>6,250.0</u>	
To Be Financed From:										
Reserves										
Bridge Reserve	1,721.2	1,721.2								
Total Reserves	<u>1,721.2</u>	<u>1,721.2</u>								
Capital Levy	<u>10,630.0</u>	<u>630.0</u>				<u>1,250.0</u>	<u>1,250.0</u>	<u>1,250.0</u>	<u>6,250.0</u>	

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-9.04

Division: Engineering - Bridges

Climate Mitigation: Yes

Project Name & Description

Nassau Mills Road Bridge over Otonabee River

Commitments Made

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

The 2011 Transportation Master Plan concluded that a new four lane bridge will be required at this location including the street widening from Water Street to Armour Road.

To facilitate construction of a new bridge at this location, the City must complete a Schedule "C" Class Environmental Assessment (EA). The EA has begun in 2017 to review all aspects of servicing the northeast quadrant of the City in order to support potential development in the north end. Detailed design will follow as phase two of the project. Bridge construction timing will be dependent on the outcome of the EA and projects needed to support development in the area.

The project costs will be more accurately defined during completion of the EA. This EA will also include the Nassau Mills Bridge over the Trent Severn and the realignment of Armour Road taking a holistic approach to planning the respective crossings.

The project is partially funded through the City's Development Charges By-Law.



Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Bridges									
Project Description	Nassau Mills Bridge over Otonabee River									
Project #	5-9.04									
Expenditures										
Contractual Services	11,820.0	300.0				1,000.0	1,520.0	9,000.0		
Net Requirements	<u>11,820.0</u>	<u>300.0</u>				<u>1,000.0</u>	<u>1,520.0</u>	<u>9,000.0</u>		
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	2,250.0								2,250.0	
DEBT DC-RoadsRelated	6,750.0								6,750.0	
Total Debenture Financing	<u>9,000.0</u>								<u>9,000.0</u>	
Development Charges										
DC - Roads Related	2,115.0	225.0				750.0	1,140.0			
Total Development Charges	<u>2,115.0</u>	<u>225.0</u>				<u>750.0</u>	<u>1,140.0</u>			
Reserves										
Bridge Reserve	705.0	75.0				250.0	380.0			
Total Reserves	<u>705.0</u>	<u>75.0</u>				<u>250.0</u>	<u>380.0</u>			

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-9.05

Division: Engineering - Bridges

Climate Mitigation: Yes

Project Name & Description

Nassau Mills Road Bridge over Trent Severn Waterway

Commitments Made

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

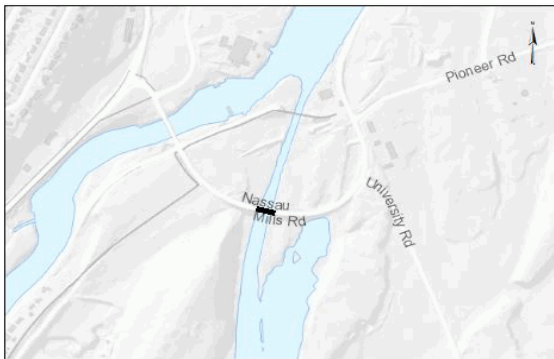
Project Detail, Justification & Reference Map

The 2011 Transportation Master Plan concluded that a new four lane bridge and widening of Nassau Mills Road, from University Road to Armour Road, to four lanes will be required at this location by 2021. Budget constraints have made this deadline unattainable.

To facilitate construction of a new bridge at this location, the City must complete a Schedule "C" Class Environmental Assessment (EA). The EA began in 2017 to review all aspects of servicing the northeast quadrant of the City in order to support potential development in the north end. Detailed design will follow as phase two of the project. Bridge construction timing will be dependent on the outcome of the EA and projects needed to support development in the area.

The project costs will be more accurately defined during completion of the EA. This EA will also include the Nassau Mills Bridge over the Otonabee River and the realignment of Armour Road taking a holistic approach to planning the respective crossings.

The project is partially funded through the City's Development Charges By-Law.



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Bridges										
Project Description	Nassau Mills Bridge over Trent Severn										
Project #	5-9.05										
Expenditures											
Contractual Services	9,550.0	300.0						500.0	8,750.0		
Net Requirements	<u>9,550.0</u>	<u>300.0</u>						<u>500.0</u>	<u>8,750.0</u>		
To Be Financed From:											
Debentures											
DEBT DC-RoadsRelated	8,250.0								8,250.0		
Total Debenture Financing	<u>8,250.0</u>								<u>8,250.0</u>		
Development Charges											
DC - Roads Related	1,300.0	300.0						500.0	500.0		
Total Development Charges	<u>1,300.0</u>	<u>300.0</u>						<u>500.0</u>	<u>500.0</u>		

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Bridges																
OSIM Bridge Inspection Program	5-9.06	330.0	90.0								50.0	50.0			190.0	190.0
Total		330.0	90.0								50.0	50.0			190.0	190.0

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-9.06**Division:** Engineering - Bridges**Project Name & Description**

OSIM Bridge Inspection Program

Commitments Made**Effects on Future Operating Budgets**

Proactive Condition Inspection will reduce long term costs through proper Asset Management.

Project Detail, Justification & Reference Map

The structural integrity, safety and condition of every bridge is determined through the performance of at least one inspection every two years under the direction of a professional engineer and in accordance with the Ontario Structure Inspection Manual (OSIM), published by the Ministry of Transportation (O. Reg. 160/02, s. 2 (2)). The next OSIM program is scheduled for 2022.

The many components that make up the substructure and superstructure of bridges are reviewed. These include the foundations, abutments, piers, girders, deck, barriers, railings, bearings, expansion joints and approach slabs.

Each of the various elements are assigned a condition rating and maintenance needs are identified and assigned a priority based on the need to undertake the improvements. These maintenance and rehabilitation needs are then used to generate the long-term bridge asset capital budgets and short-term maintenance needs.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Bridges									
Project Description	OSIM Bridge Inspection Program									
Project #	5-9.06									
Expenditures										
Contractual Services		330.0	90.0		50.0		90.0		100.0	
Net Requirements		<u>330.0</u>	<u>90.0</u>		<u>50.0</u>		<u>90.0</u>		<u>100.0</u>	
To Be Financed From:										
Reserves										
Bridge Reserve		330.0	90.0		50.0		90.0		100.0	
Total Reserves		<u>330.0</u>	<u>90.0</u>		<u>50.0</u>		<u>90.0</u>		<u>100.0</u>	

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Collector and Local Streets																
Pavement Preservation Program	5-10.01	59,450.8	4,100.0	4,500.8		4,500.8				4,500.8	4,850.0	4,850.0	5,050.0	5,050.0	40,950.0	40,950.0
Moorecraig Road and Roper Drive Reconstruction	5-10.02	2,560.0	1,990.0	570.0		570.0				570.0						
LED Decorative Street Lighting Retrofit	5-10.03	750.0		375.0		375.0			375.0		375.0	375.0				
Street Light Infrastructure Program	5-10.04	1,450.0		100.0		100.0	100.0				100.0	100.0	150.0	150.0	1,100.0	1,100.0
Charlotte St. Aylmer to Park	5-10.05	6,910.0	960.0								1,500.0	1,500.0	1,700.0	1,700.0	2,750.0	2,750.0
Charlotte Street Renewal- Aylmer to Water	5-10.06	7,600.0									1,500.0	1,500.0	2,000.0	2,000.0	4,100.0	4,100.0
Briarhill Road Reconstruction	5-10.07	1,100.0									1,100.0	1,100.0				
Roads Surface Pavement Program	5-10.08	10,000.0	1,000.0								1,000.0	1,000.0	1,000.0	1,000.0	7,000.0	7,000.0
Rail Crossing Removals	5-10.09	900.0									100.0	100.0	100.0	100.0	700.0	700.0
Webber & Rye Urbanization	5-10.10	7,900.0	500.0												7,400.0	7,400.0
Victoria Ave Reconstruction	5-10.11	3,066.0	66.0												3,000.0	2,000.0
Simons Subdivision Road Rehabilitation	5-10.12	400.0													400.0	400.0
Total		102,086.8	8,616.0	5,545.8		5,545.8	100.0		375.0	5,070.8	10,525.0	10,525.0	10,000.0	10,000.0	67,400.0	66,400.0

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-10.01**Division:** Engineering - Collector and Local Streets**Project Name & Description**

Pavement Preservation Program

Commitments Made

On April 7, 2014, Council adopted Report USEC14-005 authorizing an increase in both the capital and operating budgets related to pavement preservation.

The Roads Needs Study included detailed pavement condition reports for each road. A Pavement Condition Index (PCI) was created for each road section based on the field data collected

Based on the Pavement Condition Index and Pavement Deterioration Models, various pavement management categories are assigned to each road section to determine the overall best maintenance and rehabilitation planning scenario.

Effects on Future Operating Budgets

Reduction in long-term operating costs due to new road surfaces.

Project Detail, Justification & Reference Map

The Pavement Preservation Program is identified through the City's overall Road Needs Study. In general, this program involves roads where the sub surface components are in relatively good condition and the intention is to extent the life cycle of the road assembly. This program extends the life of the road and associated surface features and protects the underground utilities and essential infrastructure from water infiltration. The preventative maintenance program involves;

- adjustment of road structures
- repairs to ensure alignment of road surface with curbs/gutters
- pavement resurfacing and crack sealing

The program will also include re inspecting portions of the City's road network. Re inspection information will be utilized for subsequent road programs.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Collector and Local Streets										
Project Description	Pavement Preservation Program										
Project #	5-10.01										
Expenditures											
Contractual Services	59,450.8	4,100.0	4,500.8	4,850.0	5,050.0	5,250.0	5,450.0	30,250.0			
Net Requirements	59,450.8	4,100.0	4,500.8	4,850.0	5,050.0	5,250.0	5,450.0	30,250.0			
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported	15,450.0	600.0		850.0	1,050.0	1,250.0	1,450.0	10,250.0			
Total Debenture Financing	15,450.0	600.0		850.0	1,050.0	1,250.0	1,450.0	10,250.0			
Reserves											
Federal Gas Tax	43,350.8	3,500.0	3,850.8	4,000.0	4,000.0	4,000.0	4,000.0	20,000.0			
Engineering Design & Inspection Reserve	650.0		650.0								
Total Reserves	44,000.8	3,500.0	4,500.8	4,000.0	4,000.0	4,000.0	4,000.0	20,000.0			

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-10.02**Division:** Engineering - Collector and Local Streets**Climate Adaptation:** Yes**Project Name & Description**

Moorecraig Road and Roper Drive Reconstruction

Commitments Made

Report ISPENG20-017 approved by Council May
2020 pre-committed \$600,000 of the 2021 Capital
Budget for this project

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

The reconstruction of Moorecraig Road was initiated in 2017 as a road re-surfacing project. Following neighbourhood meetings and design, the project's scope was adjusted to include a portion of Roper Drive and costs have increased for Moorecraig Road. It was also identified that Roper Drive requires stormwater outlet works. Re-constructing Moorecraig without addressing the stormwater issues on the section of Roper Drive would adversely affect private properties. To minimize construction pricing, the Roper Drive reconstruction was combined with the planned Moorecraig Road works.

Through Report IPSENG20-017, Council requested that \$30K for the portion of sidewalk not being constructed on Roper Drive be transferred to the Sidewalk Program.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Collector and Local Streets										
Project Description	Moorecraig Road and Roper Drive Reconstruction										
Project #	5-10.02										
Expenditures											
Contractual Services		2,560.0	1,990.0	570.0							
Net Requirements		<u>2,560.0</u>	<u>1,990.0</u>	<u>570.0</u>							
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported		390.0	390.0								
Total Debenture Financing		<u>390.0</u>	<u>390.0</u>								
Reserves											
Federal Gas Tax		870.0	600.0	270.0							
Waste Water Reserve Reserve		1,300.0	1,000.0	300.0							
Total Reserves		<u>2,170.0</u>	<u>1,600.0</u>	<u>570.0</u>							

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-10.03**Division:** Engineering - Collector and Local Streets**Climate Mitigation:** Yes**Project Name & Description**

LED Street Lighting Retrofit

Commitments Made

In 2017, Report USEC 17-008 recommended the Light Emitting Diode (LED) retrofit of all City streetlights.

Effects on Future Operating Budgets

Reduced operating due to energy cost reductions associated with LED technology and reduced staff time to maintain the network with adaptive control.

Project Detail, Justification & Reference Map

The LED retrofit project is being implemented with the aid of the Local Authority Service (LAS). LAS is a wholly owned not-for-profit subsidiary company of the Association of Municipalities of Ontario (AMO). LAS helps the broader public sector “realize lower costs, higher revenues, and enhanced staff capacity, through co-operative procurement efforts and innovative training, programs, and services”.

The retrofit of 7,500 standard cobra-head light fixtures began in 2018 and was completed in 2019 resulting in over 3,000,000 kWh savings (~50% energy reduction). This project will advance the remaining 3,000 decorative light fixtures the City owns and operates to further realize ongoing operational savings for the City's streetlight network.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Collector and Local Streets										
Project Description	LED Decorative Street Lighting Retrofit										
Project #	5-10.03										
Expenditures											
Contractual Services		750.0		375.0	375.0						
Net Requirements		<u>750.0</u>		<u>375.0</u>	<u>375.0</u>						
To Be Financed From:											
Debentures											
Debenture - Other Support		750.0		375.0	375.0						
Total Debenture Financing		<u>750.0</u>		<u>375.0</u>	<u>375.0</u>						

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-10.04**Division:** Engineering - Collector and Local Streets**Project Name & Description**

Street Light Infrastructure Program

Commitments Made**Effects on Future Operating Budgets**

This project will replace the structural components of the City's street light network, excluding lamps. It is a one for one replacement and therefore will not have any impact on Operating.

Project Detail, Justification & Reference Map

The City's inspection program identified an upgrade to the street light infrastructure is needed. A large percentage of the existing street light infrastructure is approaching or has passed its useful life. This program will address deficiencies related to streetlight poles, arms, and undergrounds. The work program will not include warranty items from the LED retrofit program approved by Council in 2017.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Collector and Local Streets									
Project Description	Street Light Infrastructure Program									
Project #	5-10.04									
Expenditures										
Contractual Services		1,450.0		100.0	100.0	150.0	150.0	200.0	650.0	100.0
Net Requirements		<u>1,450.0</u>		<u>100.0</u>	<u>100.0</u>	<u>150.0</u>	<u>150.0</u>	<u>200.0</u>	<u>650.0</u>	<u>100.0</u>
To Be Financed From:										
Capital Levy		<u>1,450.0</u>		<u>100.0</u>	<u>100.0</u>	<u>150.0</u>	<u>150.0</u>	<u>200.0</u>	<u>650.0</u>	<u>100.0</u>

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-10.05**Division:** Engineering - Collector and Local Streets**Project Name & Description**

Charlotte Street from Aylmer Street to Park Street

Commitments Made

The Enhanced Pedestrian Realm with Enhanced Commercial Features and Parking Streetscape design of Charlotte Street from Aylmer Street to Park Street was approved by Council at its meeting of June 5, 2017 in considering Report USDIR17-004.

Council has requested revisions to the project to add cycling facilities to the design of this project.

Effects on Future Operating Budgets

Increased operating expenses due to increased infrastructure.

Project Detail, Justification & Reference Map

Charlotte Street is constrained by a 20m right-of-way with many existing buildings built up to the right-of-way boundary with no setback. The most important concepts for the project are:

- Reconstruction of sidewalks to accommodate a clear zone and landscaping;
- Two vehicle lanes, one in each direction;
- Parking maintained where possible;
- Introduction of new street trees and decorative light fixtures;
- Enhancements to sidewalk and public realm along the amenity zones
- Enhanced connection to the proposed Louis Street Urban Park.

This project will be considered with the Bethune Street Reconstruction, the design of the Charlotte Street Renewal project from Aylmer Street to Water Street and the creation of downtown urban park strategies for the approved Central Area Master Plan. The planned reconstruction of Charlotte Street will stimulate renewal in the Downtown Core and the Charlotte Street West Business District.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Collector and Local Streets									
Project Description	Charlotte St. Aylmer to Park									
Project #	5-10.05									
Expenditures										
Contractual Services		6,910.0	960.0		1,500.0	1,700.0	1,700.0	1,050.0		
Net Requirements		<u>6,910.0</u>	<u>960.0</u>		<u>1,500.0</u>	<u>1,700.0</u>	<u>1,700.0</u>	<u>1,050.0</u>		
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		6,910.0	960.0		1,500.0	1,700.0	1,700.0	1,050.0		
Total Debenture Financing		<u>6,910.0</u>	<u>960.0</u>		<u>1,500.0</u>	<u>1,700.0</u>	<u>1,700.0</u>	<u>1,050.0</u>		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-10.06**Division:** Engineering - Collector and Local Streets**Project Name & Description**

Charlotte Street Renewal - Aylmer to Water

Commitments Made

The Central Area Master Plan defines a number of measures to promote downtown Peterborough's role as a diverse and vibrant component of the city's overall commercial structure. The renewal of Charlotte Street and the creation of a downtown urban park are key strategies. The Louis Street site was selected as the preferred site for the creation of an urban park to complement the planned reconstruction of Charlotte Street and to stimulate renewal in the Downtown Core and the Charlotte Street West Business District.

In September of 2016, Council approved the purchase of 220 King Street to support the development of the Urban Park (PLPD16-069).

Effects on Future Operating Budgets

The project will impact future parking revenues. In addition, the Urban Park once built, will need to be maintained and there will be an increase in the Public Works operating budget required for that purpose.

Project Detail, Justification & Reference Map

The scope of the renewal project has changed since first planned, as the portion of Charlotte Street from Park Street to Aylmer Street is now part of the Bethune Street Storm Sewer Project. The portion from Aylmer Street to Water Street will be coordinated with the Louis Street Urban Park as well as the Charlotte Street project from Aylmer Street to Park Street and will include streetscape improvements on the east side of George Street in front of Market Hall.

Accessibility Considerations

Streetscape improvements and the Urban Park will adhere to the City's access guidelines and emerging provincial standards to ensure full accessibility and safety.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Collector and Local Streets									
Project Description	Charlotte Street Renewal- Aylmer to Water									
Project #	5-10.06									
Expenditures										
Contractual Services		7,600.0			1,500.0	2,000.0	2,000.0	2,100.0		
Net Requirements		<u>7,600.0</u>			<u>1,500.0</u>	<u>2,000.0</u>	<u>2,000.0</u>	<u>2,100.0</u>		
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		7,600.0			1,500.0	2,000.0	2,000.0	2,100.0		
Total Debenture Financing		<u>7,600.0</u>			<u>1,500.0</u>	<u>2,000.0</u>	<u>2,000.0</u>	<u>2,100.0</u>		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-10.07**Division:** Engineering - Collector and Local Streets**Project Name & Description**

Briarhill Road Reconstruction

Commitments Made

Report USTR18-009 included a recommendation that, subject to future Capital Budget approval, Briarhill Road be reconstructed to provide an urban section with a sidewalk on the north side from Wallis Drive to the east end of the street connecting with the walkway to Westmount Public School.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

Over the last several years, staff have received multiple requests for sidewalks on Briarhill Road for children walking to school. These sidewalks rank Priority 3 and 4 respectively in the Sidewalk Strategic Plan, but have a high number of students who use the road to get to and from school. The street is also used by parents to drop-off and pick-up their children by vehicle, creating periods of vehicle congestion on this otherwise quiet street.

This project will facilitate the reconstruction of Briarhill Road to an urban cross section with sanitary and storm sewers and a concrete sidewalk on the north side of the road, to provide a safe place for students to walk.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Collector and Local Streets									
Project Description	Briarhill Road Reconstruction									
Project #	5-10.07									
Expenditures										
Contractual Services		1,100.0			1,100.0					
Net Requirements		<u>1,100.0</u>			<u>1,100.0</u>					
To Be Financed From:										
Reserves										
Waste Water Reserve Reserve		550.0			550.0					
Total Reserves		<u>550.0</u>			<u>550.0</u>					
Capital Levy		<u>550.0</u>			<u>550.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-10.08**Division:** Engineering - Collector and Local Streets**Project Name & Description**

Road Surface Pavement Program

Commitments Made

A Pavement Condition Index (PCI) has been created for each road section based on field data collected. The road assessment data will be used for prioritization of roads for the program in future budget years.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

Based on the Pavement Condition Index and Pavement Deterioration Models, various pavement management categories are assigned to each road section to determine the overall best maintenance and rehabilitation planning scenario.

This program involves short term repairs and only addresses the surface pavement from gutter-gutter or road edge-road-edge. The program does not address re-alignment of the road surface with curbs/gutters or inspection/repair of storm sewer features. For 2020 (December 9, 2019, Report IPSENG19-042 Pilot Roads Program for 2020), staff allocated \$1M of one-time increase in Federal Gas Tax Funding to provide short-term repairs to four "roads in most need" (PCI under 5).

For 2021, roads will be prioritized for a continuation of the surface repair program, pending available funding.

Roads with a PCI of less than 25 are generally slated to be reconstructed. If the time frame to re-construct the road is too long, these roads may be considered for resurfacing.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Collector and Local Streets									
Project Description	Roads Surface Pavement Program									
Project #	5-10.08									
Expenditures										
Contractual Services	10,000.0	1,000.0								
Net Requirements	<u>10,000.0</u>	<u>1,000.0</u>		<u>1,000.0</u>	<u>1,000.0</u>	<u>1,000.0</u>	<u>1,000.0</u>	<u>5,000.0</u>		
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	9,100.0	100.0		1,000.0	1,000.0	1,000.0	1,000.0	5,000.0		
Total Debenture Financing	<u>9,100.0</u>	<u>100.0</u>		<u>1,000.0</u>	<u>1,000.0</u>	<u>1,000.0</u>	<u>1,000.0</u>	<u>5,000.0</u>		
Reserves										
Federal Gas Tax	900.0	900.0								
Total Reserves	<u>900.0</u>	<u>900.0</u>								

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-10.09

Division: Engineering - Collector and Local Streets

Project Name & Description

Rail Crossing Removals

Commitments Made

Effects on Future Operating Budgets

No effects on future operating.

Project Detail, Justification & Reference Map

With the decommissioning of existing rail lines throughout the City, the intersection of the railway and City roads can now be reconstructed to remove the rail lines. Some crossings will require a detailed review and design prior to removal.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Collector and Local Streets										
Project Description	Rail Crossing Removals										
Project #	5-10.09										
Expenditures											
Contractual Services		900.0			100.0	100.0	100.0	100.0		500.0	
Net Requirements		<u>900.0</u>			<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>		<u>500.0</u>	
To Be Financed From:											
Capital Levy		<u>900.0</u>			<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>		<u>500.0</u>	

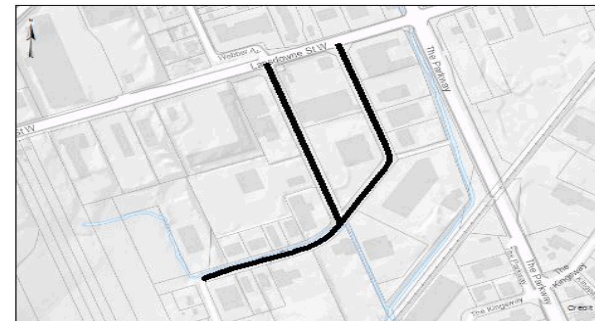
**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-10.10**Division:** Engineering - Collector and Local Streets**Project Name & Description**

Webber Avenue and Rye Street Urbanization

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

Given the development along Rye Street and final Environmental Study Report approval of the Crawford Drive to Harper Road extension, it is recommended to complete the curb and gutter installation on portions of Webber Avenue and Rye Street and address stormwater concerns along this route.

The sensitivity of the cold-water fishery, that runs along roadside ditches in the area, required an Environmental Assessment (EA) to best address this existing condition. This EA is currently under way however, has been placed on hold until such time as the Harper Park Secondary Plan is updated. Key information required is a Natural Heritage study and Sub-Watershed study to inform the secondary plan and subsequently this project. Future work will depend on the approval of the EA and recommendations of the Environmental Study Report.



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Collector and Local Streets									
Project Description	Webber & Rye Urbanization									
Project #	5-10.10									
Expenditures										
Contractual Services		7,900.0	500.0						7,400.0	
Net Requirements		<u>7,900.0</u>	<u>500.0</u>						<u>7,400.0</u>	
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		5,600.0	400.0						5,200.0	
Total Debenture Financing		<u>5,600.0</u>	<u>400.0</u>						<u>5,200.0</u>	
Reserves										
Waste Water Reserve Reserve		2,300.0	100.0						2,200.0	
Total Reserves		<u>2,300.0</u>	<u>100.0</u>						<u>2,200.0</u>	

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-10.11

Division: Engineering - Collector and Local Streets

Project Name & Description

Victoria Avenue Reconstruction

Commitments Made

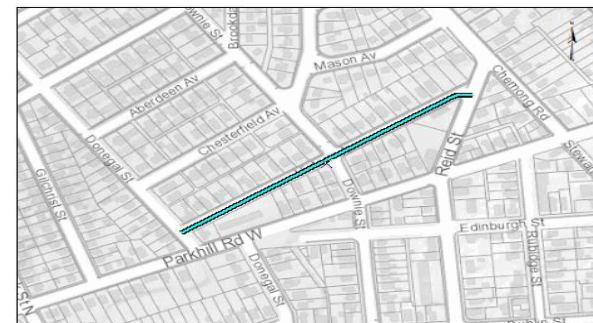
Coordination with the PUC project.

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

The PUC is replacing their watermain on Victoria Avenue and the City will work in conjunction with PUC by reconstructing Victoria Avenue from Donegal Street to Reid Street. The narrow right of way and reduced setbacks will not allow for a typical cross section. The reconstruction will address storm and sanitary requirements as well as the PUC watermain and City asset surface works.

Prior approved funding was requested to review the challenges with the reduced right-of-way. Alternatives will be explored and construction is proposed for 2026.



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to	2031 to	
		Total	Pre-2021	2021	2022	2023	2024	2025	2030	2045	
Department	Infrastructure and Planning Services										
Division	Engineering - Collector and Local Streets										
Project Description	Victoria Ave Reconstruction										
Project #	5-10.11										
Expenditures											
Contractual Services		3,066.0	66.0					300.0	2,700.0		
Total Direct Revenue		<u>3,066.0</u>	<u>66.0</u>					<u>300.0</u>	<u>2,700.0</u>		
Direct Revenue											
Recoveries		1,000.0						100.0	900.0		
Total Direct Revenue		<u>1,000.0</u>						<u>100.0</u>	<u>900.0</u>		
Net Requirements		<u>2,066.0</u>	<u>66.0</u>					<u>200.0</u>	<u>1,800.0</u>		
To Be Financed From:											
Reserves											
Waste Water Reserve Reserve		1,000.0						100.0	900.0		
Total Reserves		<u>1,000.0</u>						<u>100.0</u>	<u>900.0</u>		
Capital Levy		<u>1,066.0</u>	<u>66.0</u>					<u>100.0</u>	<u>900.0</u>		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-10.12**Division:** Engineering - Collector and Local Streets**Project Name & Description**

Simons Subdivision Road Rehabilitation

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

The area is a typical rural subdivision with ditches. The road conditions within the plan of subdivision are not of urban standard. This project addresses the road condition repairs to reinstate the surface that was originally installed. The project does not address full urbanization, which would likely be coordinated with development in the adjacent area.

Resurfacing of these roads may be considered under the Road Surface Pavement Program.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Collector and Local Streets									
Project Description	Simons Subdivision Road Rehabilitation									
Project #	5-10.12									
Expenditures										
Contractual Services		400.0					400.0			
Net Requirements		<u>400.0</u>					<u>400.0</u>			
To Be Financed From:										
Capital Levy		<u>400.0</u>					<u>400.0</u>			

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Sidewalks																
Crawford Trail Extension Project - Monaghan Rd to Townsend Rd	5-11.01	3,250.0	1,000.0	350.0		350.0			350.0		750.0	750.0	750.0	750.0	400.0	400.0
Citywide Trail Rehabilitation	5-11.02	1,100.0		50.0		50.0	50.0				300.0	300.0	300.0	300.0	450.0	450.0
Various new Sidewalk installations	5-11.03	4,030.0									430.0	430.0	400.0	400.0	3,200.0	3,200.0
Various New Multi-Use Trails	5-11.04	3,250.0													3,250.0	3,250.0
Total		11,630.0	1,000.0	400.0		400.0	50.0		350.0		1,480.0	1,480.0	1,450.0	1,450.0	7,300.0	7,300.0

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-11.01**Division:** Engineering - Sidewalks**Climate Mitigation:** Yes**Project Name & Description**

Crawford Trail Extension Project - Monaghan Road to Townsend Street

Commitments Made

Report USTR18-004 recommended a commitment of 2018 funding to create this project, however, the project costs have escalated substantially since the approved report.

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

Council approved the creation of this project through Report USTR18-004. The trail project converts an old rail line to a formal multi-use trail constructed from Monaghan Road to Townsend Street. The project costs have escalated substantially since the approved report. This project will increase the budget for the additional expenditures required to construct the trail.

All funding associated with 2021, 2022 and 2023 Various New Multi-use Trails has been reallocated to this project. Budgetary constraints have moved the remaining phases of this project to 2022/2023. Construction of the trail from Lake Street to Romaine Street occurred in 2019/2020.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Sidewalks									
Project Description	Crawford Trail Extension Project - Monaghan Rd to Townsend Rd									
Project #	5-11.01									
Expenditures										
Contractual Services	3,250.0	1,000.0		350.0	750.0	750.0	400.0			
Direct Revenue										
Provincial grant	591.5	591.5								
Total Direct Revenue	<u>591.5</u>	<u>591.5</u>								
Net Requirements	<u>2,658.5</u>	<u>408.5</u>		<u>350.0</u>	<u>750.0</u>	<u>750.0</u>	<u>400.0</u>			
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	1,143.0	306.3			330.0	330.0	176.7			
DEBT DC-RoadsRelated	618.3			350.0	105.0	105.0	58.3			
Total Debenture Financing	<u>1,761.3</u>	<u>306.3</u>		<u>350.0</u>	<u>435.0</u>	<u>435.0</u>	<u>235.0</u>			
Reserves										
Development Charges Res	102.2	102.2								
Total Reserves	<u>102.2</u>	<u>102.2</u>								
Capital Levy										
	<u>795.0</u>				<u>315.0</u>	<u>315.0</u>	<u>165.0</u>			

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-11.02

Division: Engineering - Sidewalks

Project Name & Description

Citywide Trail Rehabilitation

Commitments Made

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

This project supports trail maintenance and resurfacing. Over the past decades the City has expanded the Citywide trail network. As the trail infrastructure begins to degrade, there is a requirement to rehabilitate the infrastructure on trails as with roads.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Sidewalks									
Project Description	Citywide Trail Rehabilitation									
Project #	5-11.02									
Expenditures										
Contractual Services	1,100.0									
Net Requirements	<u>1,100.0</u>			<u>50.0</u>	<u>300.0</u>	<u>300.0</u>	<u>300.0</u>	<u>150.0</u>		
To Be Financed From:										
Capital Levy	<u>1,100.0</u>									
				<u>50.0</u>	<u>300.0</u>	<u>300.0</u>	<u>300.0</u>	<u>150.0</u>		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-11.03**Division:** Engineering - Sidewalks**Climate Mitigation:** Yes**Project Name & Description**

Various New Sidewalk Installations

Commitments Made

In accordance with the City's Provision of Sidewalks Policy Number MS08-7750 and Sidewalk Implementation Procedure for Existing Streets, a budget for new sidewalk construction is identified.

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs. The procedure will also require additional administration and potential staffing adjustments.

Project Detail, Justification & Reference Map

The City's Transportation Master Plan (TMP) was adopted by City Council at its meeting of November 14, 2011. In keeping with the TMP, active transportation is a general term for the use of human-powered, non-motorized modes for transportation such as walking, running, cycling, and rollerblading. The City of Peterborough prioritizes active modes of transportation that foster a pedestrian network with a high degree of connectivity, safety and local context sensitivity.

The City has updated the Sidewalk Implementation Procedure to include notifying residents and Ward Councillors that will be directly impacted by the immediate construction program with sufficient time to allow for consultation and mitigating measures.

Accessibility Considerations

The project aids in mobility and accessibility by implementing sidewalk projects in compliance with AODA standards.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Sidewalks									
Project Description	Various new Sidewalk installations									
Project #	5-11.03									
Expenditures										
Contractual Services		4,030.0			430.0	400.0	400.0	400.0	2,000.0	400.0
Net Requirements		<u>4,030.0</u>			<u>430.0</u>	<u>400.0</u>	<u>400.0</u>	<u>400.0</u>	<u>2,000.0</u>	<u>400.0</u>
To Be Financed From:										
Debentures										
DEBT DC-RoadsRelated		4,030.0			430.0	400.0	400.0	400.0	2,000.0	400.0
Total Debenture Financing		<u>4,030.0</u>			<u>430.0</u>	<u>400.0</u>	<u>400.0</u>	<u>400.0</u>	<u>2,000.0</u>	<u>400.0</u>

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-11.04**Division:** Engineering - Sidewalks**Climate Mitigation:** Yes**Project Name & Description**

Various New Multi-Use Trails

Commitments Made

In accordance with the City's 2011 Transportation Master Plan as approved by Council at its meeting of November 14, 2011, a budget for new trail construction was identified.

Effects on Future Operating Budgets

Increased infrastructure will increase maintenance costs.

Project Detail, Justification & Reference Map

Active Transportation is a general term for the use of human-powered, non-motorized modes for transportation such as walking, running, cycling, and rollerblading. The City of Peterborough prioritizes active modes of transportation that foster a cycling and pedestrian network with a high degree of connectivity, safety and local context sensitivity.

The Implementation Plan for the non-sidewalk component of the network improvements includes three-time horizons:

- Short-term (2011 to 2021)
- Medium-term (2021 to 2031)
- Long-term (beyond 2031)

All funding associated to 2021 and 2022 and 2023 for this project has been reallocated to the Crawford Trail Extension Project - Monaghan Road Townsend Street. Budgetary constraints have moved future phases of this project to 2023/2024.

Accessibility Considerations

This program aids in mobility and accessibility.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Sidewalks										
Project Description	Various New Multi-Use Trails										
Project #	5-11.04										
Expenditures											
Contractual Services		3,250.0					250.0	500.0	2,500.0		
Net Requirements		<u>3,250.0</u>					<u>250.0</u>	<u>500.0</u>	<u>2,500.0</u>		
To Be Financed From:											
Debentures											
Deb Rev-Tax Supported		<u>2,437.5</u>					<u>187.5</u>	<u>375.0</u>	<u>1,875.0</u>		
Total Debenture Financing		<u>2,437.5</u>					<u>187.5</u>	<u>375.0</u>	<u>1,875.0</u>		
Development Charges											
DC - Roads Related		<u>812.5</u>					<u>62.5</u>	<u>125.0</u>	<u>625.0</u>		
Total Development Charges		<u>812.5</u>					<u>62.5</u>	<u>125.0</u>	<u>625.0</u>		

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Sanitary Sewers																
Sanitary Sewer Rehabilitation	5-12.01	9,000.0	1,500.0	750.0		750.0			564.2	185.8	750.0	750.0	750.0	750.0	5,250.0	5,250.0
Eastern Trunk Sewer	5-12.02	6,000.0		250.0		250.0			250.0		1,250.0	1,250.0	1,500.0	1,500.0	3,000.0	3,000.0
Armour Road Sanitary Twinning	5-12.03	2,950.0		125.0		125.0				125.0	2,825.0	2,825.0				
Sanitary Sewer Master Plan Implementation	5-12.04	4,500.0	750.0	100.0		100.0				100.0	150.0	150.0	200.0	200.0	3,300.0	3,300.0
Applegrove Avenue Reconstruction - Chemong Road to	5-12.05	2,850.0	150.0								2,700.0	2,700.0				
Lock 19 Manhole Installation	5-12.06	100.0									100.0	100.0				
Total		25,400.0	2,400.0	1,225.0		1,225.0			814.2	410.8	7,775.0	7,775.0	2,450.0	2,450.0	11,550.0	11,550.0

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-12.01**Division:** Engineering - Sanitary Sewers**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

Sanitary Sewer Rehabilitation

Commitments Made**Effects on Future Operating Budgets**

Reduces reactive maintenance thereby reducing overall maintenance costs.

Project Detail, Justification & Reference Map

This project will review the latest condition information on the citywide sanitary sewer network and rehabilitate critical areas identified. In general, the sanitary sewer rehabilitation program will be allocated to sewers that require attention as a result of inspection information collected.

The project is also directly connected to the roads resurfacing program whereby underground infrastructure requires repair prior to any road surface works.

The ongoing program will improve the overall condition of the City's sanitary sewer infrastructure thereby resulting in improved sewage flows.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Sanitary Sewers									
Project Description	Sanitary Sewer Rehabilitation									
Project #	5-12.01									
Expenditures										
Contractual Services		9,000.0	1,500.0	750.0	750.0	750.0	750.0	750.0	3,750.0	
Net Requirements		<u>9,000.0</u>	<u>1,500.0</u>	<u>750.0</u>	<u>750.0</u>	<u>750.0</u>	<u>750.0</u>	<u>750.0</u>	<u>3,750.0</u>	
To Be Financed From:										
Debentures										
Debenture - WWRF		<u>564.2</u>		<u>564.2</u>						
Total Debenture Financing		<u>564.2</u>		<u>564.2</u>						
Reserves										
Waste Water Reserve Reserve		<u>8,435.8</u>	<u>1,500.0</u>	<u>185.8</u>	<u>750.0</u>	<u>750.0</u>	<u>750.0</u>	<u>750.0</u>	<u>3,750.0</u>	
Total Reserves		<u>8,435.8</u>	<u>1,500.0</u>	<u>185.8</u>	<u>750.0</u>	<u>750.0</u>	<u>750.0</u>	<u>750.0</u>	<u>3,750.0</u>	

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-12.02

Division: Engineering - Sanitary Sewers

Project Name & Description

Eastern Trunk Sewer

Commitments Made

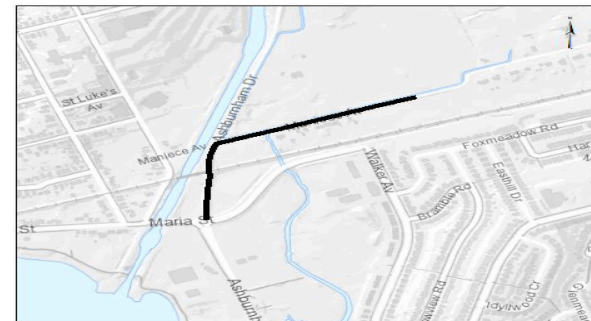
At its meeting of September 10, 2018, report IPSPD18-023 was approved by Council which endorsed the Draft Plan of Subdivision presented by the Developer that requires this project for servicing of the lands.

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

This project is identified in, and funded from, Development Charges for all growth-related portions of the project. Completion of this project permits growth within the Liftlock Growth Area. In 2017, the City received application for draft plan approval for the Growth Area and is expected to begin moving forward in the coming years.

Funding will be dependent on the progress of development and the need for sanitary sewers. The project is partially funded through the 2017 Development Charges Study (Area Specific).



Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Sanitary Sewers										
Project Description	Eastern Trunk Sewer										
Project #	5-12.02										
Expenditures											
Contractual Services		6,000.0		250.0	1,250.0	1,500.0	3,000.0				
Net Requirements		<u>6,000.0</u>		<u>250.0</u>	<u>1,250.0</u>	<u>1,500.0</u>	<u>3,000.0</u>				
To Be Financed From:											
Debentures											
DEBT DC-Liftlock		6,000.0		250.0	1,250.0	1,500.0	3,000.0				
Total Debenture Financing		<u>6,000.0</u>		<u>250.0</u>	<u>1,250.0</u>	<u>1,500.0</u>	<u>3,000.0</u>				

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-12.03**Division:** Engineering - Sanitary Sewers**Climate Adaptation:** Yes**Project Name & Description**

Armour Road Sanitary Sewer Twinning (Clifton St to Hunter St E)

Commitments Made

On March 12, 2012, Council adopted Report USEC12-001 authorizing a capital program to reduce the inflow and infiltration throughout the City.

Effects on Future Operating Budgets

Additional infrastructure will increase operating costs.
Elimination of extraneous flows into the sanitary sewer will reduce operating costs.

Project Detail, Justification & Reference Map

Identified through the Inflow and Infiltration Study as a priority project. The intent of the project is to reduce the likelihood of sewage backup into basements by installing a second sanitary sewer pipe in this location. This will provide additional capacity to effectively address the sewer systems backup potential.

The project will also address road resurfacing and stormwater management improvements in the area.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Engineering - Sanitary Sewers										
Project Description	Armour Road Sanitary Twinning										
Project #	5-12.03										
Expenditures											
Contractual Services		2,950.0		125.0	2,825.0						
Net Requirements		<u>2,950.0</u>		<u>125.0</u>	<u>2,825.0</u>						
To Be Financed From:											
Reserves											
Waste Water Reserve Reserve		1,537.5		125.0	1,412.5						
Total Reserves		<u>1,537.5</u>		<u>125.0</u>	<u>1,412.5</u>						
Capital Levy		<u>1,412.5</u>			<u>1,412.5</u>						

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-12.04**Division:** Engineering - Sanitary Sewers**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

Sanitary Sewer Inflow & Infiltration Master Plan Implementation

Commitments Made

On March 12, 2012, Council approved Report USEC12-001 adopting the City's infrastructure strategies to address Inflow and Infiltration of storm water into the City Sanitary Sewer Network.

Effects on Future Operating Budgets

Reduction in extraneous storm water flows into the sanitary sewer system will preserve the sanitary sewer capacity for future development and potentially reduce the costs of treatment at the Waste Water Treatment Plant.

Project Detail, Justification & Reference Map

Inflow and Infiltration of clean water increases the flow in the sanitary sewer causing basement flooding, environmental hazards, greater wastewater treatment costs and reduced sewer capacity for future growth while decreasing the sewer system's lifespan.

Various Inflow and Infiltration sources have been discovered and, now that the City has established these sources, the next step is remediation through detailed design and construction to remove the Inflow and Infiltration from the City's sanitary system. Staff will continue to investigate remaining areas of the City.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Sanitary Sewers									
Project Description	Sanitary Sewer Master Plan Implementation									
Project #	5-12.04									
Expenditures										
Contractual Services		4,500.0	750.0	100.0	150.0	200.0	250.0	750.0	2,300.0	
Net Requirements		<u>4,500.0</u>	<u>750.0</u>	<u>100.0</u>	<u>150.0</u>	<u>200.0</u>	<u>250.0</u>	<u>750.0</u>	<u>2,300.0</u>	
To Be Financed From:										
Reserves										
Waste Water Reserve Reserve		4,500.0	750.0	100.0	150.0	200.0	250.0	750.0	2,300.0	
Total Reserves		<u>4,500.0</u>	<u>750.0</u>	<u>100.0</u>	<u>150.0</u>	<u>200.0</u>	<u>250.0</u>	<u>750.0</u>	<u>2,300.0</u>	

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-12.05

Division: Engineering - Sanitary Sewers

Project Name & Description

Applegrove Avenue Reconstruction – Chemong Road to Highland Road

Commitments Made

Coordination with PUC work.

Effects on Future Operating Budgets

Increase to maintenance costs for sidewalks.

Project Detail, Justification & Reference Map

Due to the age and deteriorating condition of the sanitary sewers, replacement is recommended. The sanitary system in this area dates back to the 1950s and is proposed to be replaced, due to condition of the infrastructure.

The project will also address replacement of the storm sewers and pavement structure, as well as the need for pedestrian networks. The PUC has planned for replacement of the watermain infrastructure and both parties will collaborate on a combined project. The costs shown are City costs only.

Phase 1: Detailed design has been completed and a public input session has been hosted by the City. Budgetary constraints have delayed the project.

Phase 2: Utility relocation

Phase 3: Construction



Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Sanitary Sewers									
Project Description	Applegrove Avenue Reconstruction - Chemong Road to Highland Road									
Project #	5-12.05									
Expenditures										
Contractual Services		2,850.0	150.0		2,700.0					
Net Requirements		<u>2,850.0</u>	<u>150.0</u>		<u>2,700.0</u>					
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		1,084.0	84.0		1,000.0					
Debenture - WWRF		1,250.0			1,250.0					
Total Debenture Financing		<u>2,334.0</u>	<u>84.0</u>		<u>2,250.0</u>					
Reserves										
Federal Gas Tax		450.0			450.0					
Waste Water Reserve Reserve		66.0	66.0							
Total Reserves		<u>516.0</u>	<u>66.0</u>		<u>450.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-12.06**Division:** Engineering - Sanitary Sewers**Project Name & Description**

Lock 19 Manhole Installation

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

This project is planned to be completed through a collaborative process with Parks Canada. The City's project includes the installation of a sanitary manhole on an existing sanitary sewer line. The infrastructure is located in the rear yards of residential properties on River Rd, thereby providing limited access to critical infrastructure. This trunk sewer conveys the east side of the City's sewage flows to the Wastewater Treatment Plant.

Through project notice provided by Parks Canada, staff believe it is beneficial to gain access to this system wherever possible and the project at Lock 19 provides this opportunity.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Sanitary Sewers									
Project Description	Lock 19 Manhole Installation									
Project #	5-12.06									
Expenditures										
Contractual Services		100.0			100.0					
Net Requirements		<u>100.0</u>			<u>100.0</u>					
To Be Financed From:										
Reserves										
Waste Water Reserve Reserve		100.0			100.0					
Total Reserves		<u>100.0</u>			<u>100.0</u>					

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Storm Sewers																
City Wide Stormwater Quality Master Plan Implementation	5-13.01	12,020.0	2,350.0	875.0		875.0			875.0		890.0	890.0	930.0	930.0	6,975.0	6,975.0
Storm Sewer Rehabilitation Program	5-13.02	6,000.0	1,000.0	500.0		500.0			500.0		500.0	500.0	500.0	500.0	3,500.0	3,500.0
Roger Neilson Way Storm Sewer Rehab	5-13.03	165.0									15.0	15.0	150.0	150.0		
Total		18,185.0	3,350.0	1,375.0		1,375.0			1,375.0		1,405.0	1,405.0	1,580.0	1,580.0	10,475.0	10,475.0

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-13.01**Division:** Engineering - Storm Sewers**Climate Adaptation:** Yes**Project Name & Description**

Citywide Stormwater Quality Master Plan Implementation

Commitments Made

Report USDIR14-001 authorized publishing of the Draft Master Plan and requested staff to report back to Council with the final report and implementation plan. USDIR15-003 was partially adopted by Council on September 28, 2016, with some recommendations deferred until staff can provide more information on a funding source.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

This project presents an opportunity to manage stormwater quality discharges potentially impacting creeks and rivers. The City is mandated to complete specified work by the MOECC related to existing stormwater facilities throughout the City. As part of this requirement, the City needs to ensure current data is available. The Stormwater Quality EA Management Master Plan is developed as part of the overall evaluation and solution to the existing concerns.

The long-term recommendations of the Stormwater Quality Master Plan require ongoing funding over several years, to mitigate the potential issues.

In 2016, the MOECC requested detailed inspection data for one pond. The MOECC has provided recommended guidance to address concerns. This project will implement recommendations and required work arising from the MOECC requirements.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Storm Sewers									
Project Description	City Wide Stormwater Quality Master Plan Implementation									
Project #	5-13.01									
Expenditures										
Contractual Services	12,020.0	2,350.0	875.0	890.0	930.0	975.0	1,000.0	5,000.0		
Total Direct Revenue	12,020.0	2,350.0	875.0	890.0	930.0	975.0	1,000.0	5,000.0		
Net Requirements	12,020.0	2,350.0	875.0	890.0	930.0	975.0	1,000.0	5,000.0		
To Be Financed From:										
Debentures										
Debenture - WWRF	875.0		875.0							
Total Debenture Financing	875.0		875.0							
Reserves										
FRMP - Capital Levy Reserve	350.0	350.0								
Waste Water Reserve Reserve	10,795.0	2,000.0		890.0	930.0	975.0	1,000.0	5,000.0		
Total Reserves	11,145.0	2,350.0		890.0	930.0	975.0	1,000.0	5,000.0		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-13.02**Division:** Engineering - Storm Sewers**Climate Adaptation:** Yes**Project Name & Description**

Storm Sewer Rehabilitation Program

Commitments Made**Effects on Future Operating Budgets**

Reduces reactive maintenance thereby reducing overall maintenance costs.

Project Detail, Justification & Reference Map

This project will review current condition information on the citywide storm sewer network and rehabilitate critical areas identified. The storm sewer rehabilitation program will be allocated to sewers that require attention as a result of inspection information collected.

The project is also directly connected to the roads resurfacing program whereby underground infrastructure requires repair prior to any road surface works.

The project will improve the overall condition of the City's storm sewer infrastructure, thereby resulting in improved drainage and water management.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Storm Sewers									
Project Description	Storm Sewer Rehabilitation Program									
Project #	5-13.02									
Expenditures										
Contractual Services	6,000.0	1,000.0	500.0	500.0	500.0	500.0	500.0	500.0	2,500.0	
Net Requirements	<u>6,000.0</u>	<u>1,000.0</u>	<u>500.0</u>	<u>500.0</u>	<u>500.0</u>	<u>500.0</u>	<u>500.0</u>	<u>500.0</u>	<u>2,500.0</u>	
To Be Financed From:										
Debentures										
Debenture - WWRF	500.0		500.0							
Total Debenture Financing	<u>500.0</u>		<u>500.0</u>							
Reserves										
Waste Water Reserve Reserve	5,500.0	1,000.0		500.0	500.0	500.0	500.0	500.0	2,500.0	
Total Reserves	<u>5,500.0</u>	<u>1,000.0</u>		<u>500.0</u>	<u>500.0</u>	<u>500.0</u>	<u>500.0</u>	<u>500.0</u>	<u>2,500.0</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-13.03

Division: Engineering - Storm Sewers

Climate Adaptation: Yes

Project Name & Description

Roger Neilson Way Storm Sewer Rehabilitation

Commitments Made

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

This project will address periodic flooding that occurs on Roger Neilson Way fronting the Memorial Centre.
Phase 1: Investigation and design in 2022
Phase 2: Construction in 2023

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Engineering - Storm Sewers									
Project Description	Roger Neilson Way Storm Sewer Rehab									
Project #	5-13.03									
Expenditures										
Contractual Services		165.0			15.0	150.0				
Net Requirements		<u>165.0</u>			<u>15.0</u>	<u>150.0</u>				
To Be Financed From:										
Reserves										
Waste Water Reserve Reserve		165.0			15.0	150.0				
Total Reserves		<u>165.0</u>			<u>15.0</u>	<u>150.0</u>				

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Public Works																
Sidewalk Reconstruction	5-14.01	16,328.8		1,272.9		1,272.9			1,272.9		1,311.2	1,311.2	1,352.9	1,352.9	12,391.8	12,391.8
2021 Fleet Replacement and Enhancement	5-14.02	20,041.6	1,594.9	1,090.8		1,090.8				1,090.8	1,273.0	1,273.0	1,862.3	1,862.3	14,220.6	14,220.6
Municipal Snow Storage Facility ECA and Compliance	5-14.03	1,050.0	50.0	250.0		250.0	250.0				750.0	750.0				
Total		37,420.4	1,644.9	2,613.7		2,613.7	250.0		1,272.9	1,090.8	3,334.2	3,334.2	3,215.2	3,215.2	26,612.4	26,612.4

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-14.01**Division:** Public Works - Public Works**Project Name & Description**

Sidewalk Reconstruction

Commitments Made

The municipal sidewalk inventory totals 400 kilometers. Sidewalks typically have a 50-year life cycle. Life cycle costing provides a base line performance measure to verify if replacement schedules and funding are sufficient to meet the established life cycle.

Effects on Future Operating Budgets

Sidewalk reconstruction reduces the need for ongoing maintenance costs and minimizes the City's risk exposure.

Project Detail, Justification & Reference Map

The recommended budget provides funds to replace approximately 3,800 linear meters of sidewalk or about 1% of the existing inventory.

Future capital budgets have been increased by 3% annually, to account for cost of construction increases, in order to meet expected future costs to maintain the current level of service.

Accessibility Considerations

All current accessibility standards are incorporated into the reconstruction program with regards to slope, width and ramp design. Each replacement project is evaluated to ensure the most viable compliance criteria are met during the reconstruction process.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Public Works - Public Works									
Project Description	Sidewalk Reconstruction									
Project #	5-14.01									
Expenditures										
Contractual Services		16,328.8		1,272.9	1,311.2	1,352.9	1,393.5	1,435.3	7,849.1	1,713.9
Net Requirements		<u>16,328.8</u>		<u>1,272.9</u>	<u>1,311.2</u>	<u>1,352.9</u>	<u>1,393.5</u>	<u>1,435.3</u>	<u>7,849.1</u>	<u>1,713.9</u>
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		1,272.9		1,272.9						
Total Debenture Financing		<u>1,272.9</u>		<u>1,272.9</u>						
Capital Levy		<u>15,055.9</u>			<u>1,311.2</u>	<u>1,352.9</u>	<u>1,393.5</u>	<u>1,435.3</u>	<u>7,849.1</u>	<u>1,713.9</u>

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-14.02**Division:** Public Works - Public Works**Climate Mitigation:** Yes**Project Name & Description**

2021 Fleet Replacement and Enhancement

Commitments Made

Asset management of vehicles and equipment is based on life-cycle costs. Although vehicles and equipment are scheduled for replacement based on anticipated usage and conditions, final decisions are made only after a complete mechanical and financial analysis is undertaken.

Effects on Future Operating Budgets

The hourly charge out rate for vehicles and equipment includes a 'depreciation charge' that is transferred to the Public Works Equipment Reserve Fund. The Reserve is used to finance the purchase of vehicles and equipment.

Project Detail, Justification & Reference Map

The following vehicles and equipment are scheduled for replacement in 2021 at a total estimated cost of \$1.09 million.

9 Light Duty Units
2 Tractor Loaders
2 Specialized Units

Accessibility Considerations

N/A

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Public Works - Public Works									
Project Description	2021 Fleet Replacement and Enhancement									
Project #	5-14.02									
Expenditures										
Contractual Services	20,041.6	1,594.9	1,090.8	1,273.0	1,862.3	2,579.6	489.5	11,151.6		
Net Requirements	20,041.6	1,594.9	1,090.8	1,273.0	1,862.3	2,579.6	489.5	11,151.6		
To Be Financed From:										
Reserves										
Trsf From DRES PW Veh. Replacement	19,981.6	1,594.9	1,030.8	1,273.0	1,862.3	2,579.6	489.5	11,151.6		
Waste Water Reserve Reserve	60.0		60.0							
Total Reserves	20,041.6	1,594.9	1,090.8	1,273.0	1,862.3	2,579.6	489.5	11,151.6		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-14.03**Division:** Public Works - Public Works**Climate Mitigation:** Yes**Project Name & Description**

Municipal Snow Storage Facility ECA and Compliance Improvements

Commitments Made

In 2017, the Ministry of Environment and Climate Change identified that an Environmental Compliance Approval (ECA) would be required to operate the municipal snow storage facility located at the Wastewater Treatment Plant on Kennedy Rd. Preliminary works have been undertaken and a submission made to the Ministry of Environment, Conservation and Parks for their review and comment through their Technical Division. 2020 saw the continuation of the ECA process and consultation process to support the design and construction proposed for 2021 and 2022.

Effects on Future Operating Budgets

Annual maintenance and operation costs will be included in the budget requests for Winter Control - Roads within the Public Works Division.

Project Detail, Justification & Reference Map

It is anticipated that this will be a multi year project that will result in an ECA for the snow storage facility operations and maintenance. Minor modifications to the current snow storage facility will be accommodated. In conjunction with this project, there will be a managed forest plan for the Kennedy Rd woodlot located adjacent to the snow dump location. The intention is to improve and prolong the life of the woodlot area.

Accessibility Considerations

Current AODA requirements will be met as part of Design and Construction

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045		
				2021	2022	2023	2024	2025				
Department	Infrastructure and Planning Services											
Division	Public Works - Public Works											
Project Description	Municipal Snow Storage Facility ECA and Compliance Improvements											
Project #	5-14.03											
Expenditures												
Contractual Services		1,050.0	50.0	250.0	750.0							
Net Requirements					250.0	750.0						
To Be Financed From:												
Capital Levy		1,050.0	50.0	250.0	750.0							

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Public Works																
Urban Forest Management - Strategic Plan Implementation	5-14.04	7,500.3	300.3	400.0		400.0	400.0				500.0	500.0	700.0	700.0	5,600.0	5,600.0
Total		7,500.3	300.3	400.0		400.0	400.0				500.0	500.0	700.0	700.0	5,600.0	5,600.0

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-14.04**Division:** Public Works - Public Works**Climate Adaptation:** Yes**Project Name & Description**

Urban Forest Management - Strategic Plan Implementation

Commitments Made

- Trees are intended to be replaced on a 3:1 ratio, subject to budget considerations in accordance with the Urban Forest Strategic Plan.
- A work program has been created to develop and implement the Urban Forest Strategic Plan, which was updated in 2016.

Effects on Future Operating Budgets

The maintenance of trees is funded through the Operating Budget.

Project Detail, Justification & Reference Map

- Administer and develop policy to advance the key objectives of an Urban Forestry Strategic Plan;
- Manage maintenance records to recognize progress in achieving key deliverables of the Urban Forest Strategic Plan;
- Renew the urban forest resource by planting trees along the right-of-way on public and open space;
- Provide assistance and expertise to private property owners to encourage and enhance the urban forest; and
- Administer and manage volunteer programs that support the Urban Forest Strategic Plan.

Funding has been allocated on the following basis:

- \$40,000 to implement the Urban Forest Strategic Plan; and
- \$220,000 to plant trees
- \$140,000 to staff/Contractual Services

Future Capital forecasts are based on an annual 3% Cost of Living increase in order to meet expected future costs. This may change as needs are refined.

Accessibility Considerations

N/A

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Public Works - Public Works										
Project Description	Urban Forest Management - Strategic Plan Implementation										
Project #	5-14.04										
Expenditures											
Contractual Services	7,500.3	300.3	400.0	500.0	700.0	800.0	800.0	4,000.0			
Net Requirements	<u>7,500.3</u>	<u>300.3</u>	<u>400.0</u>	<u>500.0</u>	<u>700.0</u>	<u>800.0</u>	<u>800.0</u>	<u>4,000.0</u>			
To Be Financed From:											
Capital Levy	<u>7,500.3</u>	<u>300.3</u>	<u>400.0</u>	<u>500.0</u>	<u>700.0</u>	<u>800.0</u>	<u>800.0</u>	<u>4,000.0</u>			

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Parking																
Simcoe Street Parking Garage Rehabilitation	5-15.01	3,760.0	760.0	1,500.0		1,500.0			1,500.0		1,500.0	1,500.0				
Parking Equipment Purchases	5-15.02	1,831.3	205.0	170.3		170.3				170.3	115.8	115.8	121.6	121.6	1,218.7	1,218.7
Total		5,591.3	965.0	1,670.3		1,670.3			1,500.0	170.3	1,615.8	1,615.8	121.6	121.6	1,218.7	1,218.7

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-15.01**Division:** Transportation - Parking**Project Name & Description**

Simcoe Street Parking Garage Rehabilitation

Commitments Made

In 2013, a structural review of the Simcoe Street Parking Garage was conducted with the results indicating structural and mechanical repairs would be required. The first phase of repairs at the Simcoe Street Garage were completed in 2016. Report IPSTR18-021 approved additional public safety enhancements in the garage including cameras, enhanced lighting and panic alarms

The 2021 budget includes a request for a pre-commitment of \$1.5 million of 2022 Capital funding for this project.

Effects on Future Operating Budgets

Lower maintenance costs and improved public safety features.

Project Detail, Justification & Reference Map

The Simcoe Street Parkade was constructed in 1974 and is a 4-1/2 storey split-level, above grade, parking structure. The parking structure has undergone one major rehabilitation program between 2002 and 2005. Phase 1 of the second rehabilitation program started in 2016 at a cost of \$790,000 and focused on replacing deteriorated concrete on structural beams, updating the drainage systems, and localized repairs to the concrete deck surface, waterproofing systems and expansion joints. An updated structural review completed in 2017 identified a further \$2.3 million in work to replace the waterproofing system and repair deteriorated concrete in the structure.

Approved funding from 2019 was used to complete some additional safety enhancements approved in Report IPSTR18-021; the completion of detailed condition assessments on the current garage; and the completion of detailed design and preparation of contract drawings and tender documents for full rehabilitation. Funding for the rehabilitation work was deferred to 2021 to allow this project to be co-ordinated with work on the Jackson Creek culvert under the parking garage in order to realize cost savings and minimize disruption to parking customers.

Accessibility Considerations

Opportunities to enhance accessibility for the garage areas will be considered in the safety upgrade and rehabilitation project.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Parking									
Project Description	Simcoe Street Parking Garage Rehabilitation									
Project #	5-15.01									
Expenditures										
Contractual Services		3,760.0	760.0	1,500.0	1,500.0					
Net Requirements		<u>3,760.0</u>	<u>760.0</u>	<u>1,500.0</u>	<u>1,500.0</u>					
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		3,410.0	410.0	1,500.0	1,500.0					
Deb Rev - User Charges		350.0	350.0							
Total Debenture Financing		<u>3,760.0</u>	<u>760.0</u>	<u>1,500.0</u>	<u>1,500.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-15.02**Division:** Transportation - Parking**Project Name & Description**

Parking Equipment Purchases

Commitments Made

In November 2017, in considering Report USTR17-018, Council approved a Strategic Downtown Parking Management Study to guide parking operations for the next ten years. Investments in new parking equipment at surface lots and in the parking garages were included in the study recommendations.

Effects on Future Operating Budgets

Newer equipment will result in lower maintenance costs at off-street and on-street lots. Automated parking controls may increase revenues through improved management of parking transactions and allow staff resources to be reassigned to other parking enforcement duties.

Project Detail, Justification & Reference Map

This is an ongoing program to purchase and install new and/or updated parking control equipment for all areas under the purview of the Parking Section, including the Simcoe and King Street Parking Garages, various surface lots, and on-street parking spaces.

In past years, items purchased through this program included: pay and display machines for surface lots and on-street parking spaces; kiosks, gate arms, and cash/logic revenue systems at garages; handheld ticketing devices; etc.

As recommended in the Strategic Downtown Parking Management Study, funds requested in 2021 will be used to upgrade signage in the garages to improve wayfinding and customer service by introducing measures such as garage occupancy counts on entry signs. Investments in new enforcement technology will be made to improve the efficiency for in-car and foot patrol enforcement by implementing plate recognition software to integrate with the Hotspot parking system and automatically populate tickets to reduce errors.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Parking									
Project Description	Parking Equipment Purchases									
Project #	5-15.02									
Expenditures										
Contractual Services	1,831.3	205.0	170.3	115.8	121.6	127.6	134.0	777.5	179.6	
Net Requirements	<u>1,831.3</u>	<u>205.0</u>	<u>170.3</u>	<u>115.8</u>	<u>121.6</u>	<u>127.6</u>	<u>134.0</u>	<u>777.5</u>	<u>179.6</u>	
To Be Financed From:										
Development Charges										
DC - Parking	205.0	205.0								
Total Development Charges	<u>205.0</u>	<u>205.0</u>								
Reserves										
Parking Reserve	1,626.3		170.3	115.8	121.6	127.6	134.0	777.5	179.6	
Total Reserves	<u>1,626.3</u>		<u>170.3</u>	<u>115.8</u>	<u>121.6</u>	<u>127.6</u>	<u>134.0</u>	<u>777.5</u>	<u>179.6</u>	

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Transit																
Conventional Bus Replacement	5-16.01	3,975.0	1,987.5	1,987.5	1,457.4	530.1			530.1							
Transit Garage Replacement Site Selection Study	5-16.02	47,659.0	1,900.0	1,300.0		1,300.0			1,300.0		12,860.0	3,653.5	15,000.0	4,005.0	16,599.0	4,431.9
Conventional Bus Refurbishment	5-16.03	1,240.0	620.0	620.0	516.6	103.4	103.4									
New Specialized Transit Vehicles	5-16.04	360.0		360.0	264.0	96.0	8.3	87.7								
Accessible Transit Stops	5-16.05	796.9		199.2	146.0	53.2	53.2				199.2	53.2	199.2	53.2	199.2	53.2
Transit Stop Shelters	5-16.06	701.4		175.4	128.5	46.8		46.8			175.4	46.8	175.4	46.8	175.4	46.8
Transit Supervision and Customer Service Vehicle	5-16.07	175.0	75.0	100.0		100.0	100.0									
New Transit Buses	5-16.08	7,950.0	4,134.0								3,816.0	1,017.7				
Phase 2 - Transit ITS Program	5-16.09	700.0									700.0	700.0				
Downtown Transportation Hub and Route Review	5-16.10	49,050.0	500.0												48,550.0	48,550.0
Total		112,607.3	9,216.5	4,742.1	2,512.6	2,229.4	264.9	134.5	1,830.1		17,750.6	5,471.3	15,374.6	4,105.0	65,523.6	53,081.9

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services**Budget Reference #:** 5-16.01**Division:** Transportation - Transit**Climate Mitigation:** Yes**Project Name & Description**

Conventional Bus Replacement

Commitments Made**Effects on Future Operating Budgets**

Replacement vehicles will improve the age of the fleet, reducing maintenance costs and improving fuel efficiency.

Project Detail, Justification & Reference Map

The City had a fleet of 55 conventional buses and 1 Community Bus. For the conventional bus fleet, 8 of the oldest buses were due for replacement in 2020. Pre-approved capital funding in the 2020 budget allowed for the order of 3 replacement buses, which are scheduled for delivery in the spring of 2021. Between 2020 and 2027 approximately 30 buses will need to be replaced as part of our asset management program. Alternate fuel vehicles are under review and will be considered in future applications.

In April 2019, the Federal and Provincial Government announced the Investing in Canada Infrastructure Program - Transit Stream, which will provide up to \$57 Million in Transit Infrastructure funding to the City over the 2020-2027 period. Federal contributions of 40% of eligible project costs and Provincial contributions of 33% must be matched by Municipal contributions of 27% to be eligible for receipt of funding approval. The replacement of the Conventional Bus Fleet was included as one of 5 projects approved in June 2020 as part of the City's 1st funding intake, and will be used to purchase up to 6 new Conventional Transit buses over the 2020-2022 period. Replacement of the remaining vehicles in the fleet will follow in subsequent funding applications at which time opportunities to consider buses using alternative fuels will be considered.

Accessibility Considerations

All conventional transit buses are low floor, fully accessible vehicles and are equipped with required equipment in accordance with the Accessibility for Ontarians with Disabilities Act (AODA)

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Transit									
Project Description	Conventional Bus Replacement									
Project #	5-16.01									
Expenditures										
Contractual Services		3,975.0	1,987.5	1,987.5						
Direct Revenue										
Provincial grant		1,324.9	662.4	662.4						
Federal Grant		1,590.0	795.0	795.0						
Total Direct Revenue		<u>2,914.9</u>	<u>1,457.4</u>	<u>1,457.4</u>						
Net Requirements		<u>1,060.1</u>	<u>530.1</u>	<u>530.1</u>						
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		530.1		530.1						
Total Debenture Financing		<u>530.1</u>		<u>530.1</u>						
Reserves										
Casino Gaming Reserve		530.1	530.1							
Total Reserves		<u>530.1</u>	<u>530.1</u>							

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-16.02

Division: Transportation - Transit

Climate Mitigation: Yes

Project Name & Description

Transit Garage Replacement

Commitments Made

The 2012 Transit Review identified issues with the current substandard Townsend Street garage and impacts on the efficiency of vehicle maintenance activities.

In Report USDIR17-007, Council approved the award of a Transit Garage Location and Environmental Assessment Study to identify a location for a new Transit Storage Garage and obtain Environmental Approvals for the recommended site.

Effects on Future Operating Budgets

Improve efficiency of maintenance, reduce long term maintenance costs, reduce staff time to shuttle buses from the Townsend Street Yard to the Public Works Yard at Webber Avenue.

Project Detail, Justification & Reference Map

The current Transit Garage at the Townsend Street Yard only has capacity to store 42 buses inside. With a current conventional fleet of 55 buses, 13 conventional buses require outside overnight parking. With outdoor storage, vehicles cannot be properly washed and cleaned at the end of the day as the advanced accessibility features (kneeling buses, accessible ramps) may freeze up during the winter. The inability to properly service and maintain buses reduces the life expectancy of the asset and increases longer term maintenance costs. In April 2019, the Federal and Provincial Government announced the Investing in Canada Infrastructure Program - Transit Stream, which will provide up to \$57 Million in Transit Infrastructure funding to the City over the 2020-2027 period. Federal contributions of 40% of eligible project costs and Provincial contributions of 33% must be matched by Municipal contributions of 27% to be eligible for receipt of funding approval. The design and replacement of the Transit Garage will be included as part of the City's 2nd funding intake. Funds requested for 2021 will be used for property purchase and site preparation activities for the new garage site, most of which are not an eligible expense for the Federal-Provincial Infrastructure program.

Accessibility Considerations

Interior spaces in the building will be fully accessible.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Transit									
Project Description	Transit Garage Replacement Site Selection Study									
Project #	5-16.02									
Expenditures										
Contractual Services	47,659.0	1,900.0	1,300.0	12,860.0	15,000.0	15,349.0	1,250.0			
Direct Revenue										
Federal Grant	18,113.6	450.0		5,024.0	6,000.0	6,139.6	500.0			
Contractual Services	14,704.9			4,182.5	4,995.0	5,111.2	416.3			
Total Direct Revenue	<u>32,818.5</u>	<u>450.0</u>		<u>9,206.5</u>	<u>10,995.0</u>	<u>11,250.8</u>	<u>916.3</u>			
Net Requirements	<u>14,840.5</u>	<u>1,450.0</u>	<u>1,300.0</u>	<u>3,653.5</u>	<u>4,005.0</u>	<u>4,098.2</u>	<u>333.8</u>			
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	14,390.5	1,000.0	1,300.0	3,653.5	4,005.0	4,098.2	333.8			
Total Debenture Financing	<u>14,390.5</u>	<u>1,000.0</u>	<u>1,300.0</u>	<u>3,653.5</u>	<u>4,005.0</u>	<u>4,098.2</u>	<u>333.8</u>			
Reserves										
Transit Capital Reserve	450.0	450.0								
Total Reserves	<u>450.0</u>	<u>450.0</u>								

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-16.03**Division:** Transportation - Transit**Climate Mitigation:** Yes**Project Name & Description**

Conventional Bus Refurbishment

Commitments Made**Effects on Future Operating Budgets**

Refurbishment of older vehicles will reduce annual maintenance costs and reduce pressure on annual operating budgets.

Project Detail, Justification & Reference Map

The City has a fleet of 55 conventional buses and 1 Community Bus. In 2008 the City purchased 13 conventional buses, which are reaching their mid life age and major components (engines, transmissions, and mechanical systems) are requiring a higher level of maintenance. A bus refurbishment program targeting these mid life vehicles can extend their life from 16 years to 18 or 20 years, and will reduce ongoing maintenance costs.

The Investing in Canada Infrastructure Program - Transit Stream, will provide up to \$57 Million in funding to the City over the 2020-2027 period. The refurbishment of a number of buses in the Conventional Bus Fleet was included as one of 5 projects included in the City's 1st funding intake, which was approved in January 2020. Funding will be used to upgrade up to 8 existing buses over the 2020-2022 period. Refurbishment will also include upgraded passenger and operator seating, enhanced passenger safety systems, replacement of heating and cooling systems as required.

Accessibility Considerations

All conventional transit buses are low floor, fully accessible vehicles and are equipped with required equipment in accordance with the Accessibility for Ontarians with Disabilities Act (AODA). Opportunities to add enhanced accessibility features such as automatic securement systems will be considered as appropriate.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Transit									
Project Description	Conventional Bus Refurbishment									
Project #	5-16.03									
Expenditures										
Contractual Services	1,240.0	620.0	620.0							
Direct Revenue										
Provincial grant	413.3	206.6	206.6							
Federal Grant	620.0	310.0	310.0							
Total Direct Revenue	1,033.3	516.6	516.6							
Net Requirements	206.7	103.4	103.4							
To Be Financed From:										
Capital Levy	206.7	103.4	103.4							

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-16.04**Division:** Transportation - Transit**Climate Mitigation:** Yes**Project Name & Description**

New Specialized Transit Vehicles

Commitments Made**Effects on Future Operating Budgets**

Expansion of the Transit Fleet will allow for enhanced service, which will increase annual operating costs.

Project Detail, Justification & Reference Map

The City has a fleet of 11 specialized buses. Eight buses are typically in service. During peak periods our spare ratio is 27%, which is adequate, but capacity to offer specialized service is constrained by available vehicles in service.

Demand for Specialized Transit service continues to grow in the community as our population grows and ages. The expansion of the Transit Fleet is required to provide additional vehicles to improve service levels and flexibility.

In April 2019, the Federal and Provincial Government announced the Investing in Canada Infrastructure Program - Transit Stream, which will provide up to \$57 Million in Transit Infrastructure funding to the City over the 2020-2027 period. The expansion of the Specialized Bus Fleet was included as one of 5 projects approved in June 2020 as part of the City's 1st funding intake, and will be used to purchase up to 2 new Specialized Transit buses in 2021 to allow for increased service.

Accessibility Considerations

All specialized transit buses are fully accessible vehicles and are equipped with required equipment in accordance with the Accessibility for Ontarians with Disabilities Act (AODA)

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Transit									
Project Description	New Specialized Transit Vehicles									
Project #	5-16.04									
Expenditures										
Contractual Services		360.0		360.0						
Direct Revenue										
Provincial grant		120.0		120.0						
Federal Grant		144.0		144.0						
Total Direct Revenue		<u>264.0</u>		<u>264.0</u>						
Net Requirements		<u>96.0</u>		<u>96.0</u>						
To Be Financed From:										
Development Charges										
DC - Transit		87.7		87.7						
Total Development Charges		<u>87.7</u>		<u>87.7</u>						
Capital Levy		<u>8.3</u>		<u>8.3</u>						

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services**Budget Reference #:** 5-16.05**Division:** Transportation - Transit**Climate Mitigation:** Yes**Project Name & Description**

Accessible Transit Stops

Commitments Made**Effects on Future Operating Budgets**

Increased maintenance costs including winter control.

Project Detail, Justification & Reference Map

The conventional transit system is currently supported by over 620 public transit stops, many of which are not fully accessible. Although progress has been made to achieve a fully accessible transit fleet in 2017, many transit stops continue to pose barriers such as full height curbs, steps, and grass boulevards. Under this project public transit stops are reconstructed to be fully accessible and compliant with AODA Transportation and Built Environment standards.

In 2017 and 2018, approximately 140 transit stops were upgraded to be fully accessible as part of the Public Transit Infrastructure Funding received. It is estimated that 65% of the 620 transit stops in the city are fully accessible, with approximately 220 requiring additional work.

A program of further transit stop accessibility upgrades will be included as part of the City's 2nd funding intake of the Investing in Canada Infrastructure Program for Transit, and upgrades can be prioritized based on the reconfigured route system. Requested funding for 2021 will provide the 26.7% municipal contribution towards this program.

Accessibility Considerations

This project will make transit stops accessible by providing concrete pads and connections to existing sidewalks for passengers using mobility devices.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Transit									
Project Description	Accessible Transit Stops									
Project #	5-16.05									
Expenditures										
Contractual Services	796.9	199.2	199.2	199.2	199.2					
Direct Revenue										
Provincial grant	265.4	66.3	66.3	66.3	66.3					
Federal Grant	318.8	79.7	79.7	79.7	79.7					
Total Direct Revenue	584.1	146.0	146.0	146.0	146.0					
Net Requirements	212.8	53.2	53.2	53.2	53.2					
To Be Financed From:										
Capital Levy	212.8	53.2	53.2	53.2	53.2					

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services**Budget Reference #:** 5-16.06**Division:** Transportation - Transit**Project Name & Description**

Transit Stops and Shelter

Commitments Made**Effects on Future Operating Budgets**

Maintenance costs average approximately \$1,000 per year per shelter. Increased advertising revenue can be expected as additional shelters are added to the inventory.

Project Detail, Justification & Reference Map

The program consists of construction of concrete pads and new shelters (comprised of a mix of 4x8', 4x12' and 8x12' transit shelters) to accommodate various levels of passenger demand. Shelters are glass design with doomed roof complete with interior seating benches and some have solar lighting and provide advertising opportunities.

In April 2019, the Federal and Provincial Government announced the Investing in Canada Infrastructure Program - Transit Stream, which will provide up to \$57 Million in Transit Infrastructure funding to the City over the 2020-2027 period. Federal contributions of 40% of eligible project costs and Provincial contributions of 33% must be matched by Municipal contributions of 27% to be eligible for receipt of funding approval.

A program of further transit stop and shelter upgrades will be included as part of the City's 2nd funding intake, to support the reconfiguration of Transit Routes and shelter locations can be prioritized based on the reconfigured route system. Requested funding in 2021, will provide the City's 26.7% contribution towards this program.

Accessibility Considerations

The stop upgrades enhance accessibility and each shelter is barrier free and designed to accommodate passengers with mobility devices.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Transit									
Project Description	Transit Stop Shelters									
Project #	5-16.06									
Expenditures										
Contractual Services	701.4			175.4	175.4	175.4	175.4			
Direct Revenue										
Provincial grant	233.6			58.4	58.4	58.4	58.4			
Federal Grant	280.6			70.1	70.1	70.1	70.1			
Total Direct Revenue	514.1			128.5	128.5	128.5	128.5			
Net Requirements	187.3			46.8	46.8	46.8	46.8			
To Be Financed From:										
Development Charges										
DC - Transit	187.3			46.8	46.8	46.8	46.8			
Total Development Charges	187.3			46.8	46.8	46.8	46.8			

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-16.07**Division:** Transportation - Transit**Project Name & Description**

Transit Supervision and Customer Service Vehicle

Commitments Made**Effects on Future Operating Budgets**

Reduced maintenance costs for a newer vehicle.

Project Detail, Justification & Reference Map

Peterborough Transit has two light duty vehicles for use by transit supervisory staff to support day-to-day operations including monitoring transit service delivery and responding to on-site incidents requiring investigations. Funding for 2021 will allow for the purchase of an accessible passenger van which will replace one of the light duty vehicles, and will be used for on-road supervisors to monitor service, shuttle drivers to relief points, and assist with pick ups of passengers who require accessible support.

Accessibility Considerations

An accessible vehicle will be purchased to assist with emergency pick ups of customers who cannot be accommodated on conventional buses due to overcrowding.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Transportation - Transit										
Project Description	Transit Supervision and Customer Service Vehicle										
Project #	5-16.07										
Expenditures											
Contractual Services	175.0	75.0	100.0								
Net Requirements	<u>175.0</u>	<u>75.0</u>	<u>100.0</u>								
To Be Financed From:											
Capital Levy	<u>175.0</u>	<u>75.0</u>	<u>100.0</u>								

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-16.08

Division: Transportation - Transit

Climate Mitigation: Yes

Project Name & Description

New Conventional Transit Buses

Commitments Made

With the approval of Report IPSTR19 - 021 dated October 7, 2019, Council approved the pre commitment of \$800,000 of this project to purchase new Community buses in support of the Selwyn Transit pilot program and the existing Community bus program within the City.

The expansion of the Conventional Bus Fleet was one of 5 projects approved as part of the City's 1st funding intake for the Investing in Canada Infrastructure Program - Transit Stream (January 2020). This project will purchase up to 15 new Transit buses of various sizes over the 2020 to 2022 period to allow for the potential for greater operational flexibility and service improvements. Funding for 2021 will provide the City contribution to this project. Final decisions on vehicle type and size will be identified as part of the Transit Route and Long Term Growth Study.

Effects on Future Operating Budgets

New Transit Fleet will allow for greater flexibility and then potential for service improvements following the transit route review. Additional vehicles will increase annual operating costs. Future expanded service would result in an increase of transit fare revenue.

Project Detail, Justification & Reference Map

The City has a fleet of 55 conventional buses and 1 Community Bus. With 43 buses typically in service during peak periods our spare ratio is 22% and there is no spare for the Community Bus. The separation of Public Works from the Transit Garage requires shuttling buses between facilities, and a higher spare ratio is required in order to meet operational service requirements.

The City is undertaking a Transit Route Review and Long-Term Growth Study. Expansion of the Transit Fleet is required to provide additional flexibility for service delivery. In anticipation of return to full class enrollment at Trent University and Fleming College, increased ridership can be expected and additional routes, and/or larger vehicles may be required to meet future demands. Given that the lead time to purchase new vehicles is approximately 1 year, these purchases will also position the City to be able to enhance transit service levels in the future.

Accessibility Considerations

All conventional transit buses are low floor, fully accessible vehicles in accordance with the Accessibility for Ontarians with Disabilities Act (AODA)

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Transit									
Project Description	New Transit Buses									
Project #	5-16.08									
Expenditures										
Contractual Services		7,950.0	4,134.0		3,816.0					
Direct Revenue										
Provincial grant		2,649.8	1,377.9		1,271.9					
Federal Grant		3,180.0	1,653.6		1,526.4					
Total Direct Revenue		<u>5,829.8</u>	<u>3,031.5</u>		<u>2,798.3</u>					
Net Requirements		<u>2,120.2</u>	<u>1,102.5</u>		<u>1,017.7</u>					
To Be Financed From:										
Debentures										
DEBT DC-Transit		920.2	502.5		417.7					
Total Debenture Financing		<u>920.2</u>	<u>502.5</u>		<u>417.7</u>					
Development Charges										
DC - Transit		1,200.0	600.0		600.0					
Total Development Charges		<u>1,200.0</u>	<u>600.0</u>		<u>600.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-16.09**Division:** Transportation - Transit**Climate Mitigation:** Yes**Project Name & Description**

Phase 2 - Transit ITS Program

Commitments Made

Report ISPTR18-014 awarded a new Intelligent Transit System (ITS) for Transit which included new camera installations on all transit vehicles.

Effects on Future Operating Budgets

Introduction of additional collision warning devices on the transit fleet will significantly reduce costs associated with accidents and claims. Some increase in annual software licensing costs and replacement of ITS components will be required.

Project Detail, Justification & Reference Map

Phase 2 of the Transit ITS program will build upon the technology platform developed in Phase 1, adding additional Intelligent Transportation infrastructure to the transit fleet. In 2018, funding was used to add cameras to the existing transit fleet. Phase 2 will include enhanced equipment to allow for Transit Priority at intersections and may also include exterior collision warning sensors to warn drivers of hazards that may not be visible or hidden in blind spots.

New technologies for collision warning systems also provide advance warning to drivers of potential conflicts with other vehicles or pedestrians. Noticeable benefits have been seen in buses equipped with this technology in collision reductions at intersections where blind spots, crosswalks, and busy turning movements contribute to higher collision risks.

Collision avoidance technology would be installed on conventional and specialized transit vehicles.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Transportation - Transit										
Project Description	Phase 2 - Transit ITS Program										
Project #	5-16.09										
Expenditures											
Contractual Services		700.0			700.0						
Net Requirements		<u>700.0</u>			<u>700.0</u>						
To Be Financed From:											
Reserves											
Transit Capital Reserve		200.0			200.0						
Total Reserves		<u>200.0</u>			<u>200.0</u>						
Capital Levy		<u>500.0</u>			<u>500.0</u>						

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-16.10

Division: Transportation - Transit

Climate Mitigation: Yes

Project Name & Description

Downtown Transportation Hub and Route Review

Commitments Made

The approved 2012 Public Transit Operations Review (Reports USDIR12 - 016 and USDIR12 - 019) recommended construction of a new downtown terminal with a modern flow through design in the longer term. Council, in approving Report USDIR18 - 002, provided funding undertake a Route Review and Long Term Transit Growth Strategy.

Effects on Future Operating Budgets

A new downtown terminal may be smaller, but introduction of satellite terminals will offset savings and likely result in increased maintenance and utility costs. A better flow of bus traffic would reduce operational costs. Changes to existing transit routes may result in reduced operating costs, however, expansion of routes to serve new growth areas may increase operating costs.

Project Detail, Justification & Reference Map

The Downtown Public Transit Terminal underwent a major upgrade to the customer service and office areas at the Transit Terminal, and repairs to the Parkade were completed in 2016 to extend the life of the existing structure. The 2018 budget request for \$500,000 was used to fund a Transit Route Review and Long-Term Growth Strategy, undertaken as a three-phase study; with Phase 1 developing a new transit route system, Phase 2 developing a long term growth strategy for transit, and Phase 3 identifying a future plan/location for the downtown transit terminal.

Funding forecasts beyond 2021, are preliminary estimates for a new transit terminal and parking garage based on the cost estimates from the 2012 Transit Operations Review.

Accessibility Considerations

The conceptual design will include accessibility requirements for interior spaces and platform areas for customers and staff.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Transit									
Project Description	Downtown Transportation Hub and Route Review									
Project #	5-16.10									
Expenditures										
Contractual Services		49,050.0	500.0				900.0	17,650.0	30,000.0	
Net Requirements		<u>49,050.0</u>	<u>500.0</u>				<u>900.0</u>	<u>17,650.0</u>	<u>30,000.0</u>	
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		39,769.3						9,769.3	30,000.0	
DEBT DC-Parking		4,728.4						4,728.4		
Total Debenture Financing		<u>44,497.7</u>						<u>14,497.7</u>	<u>30,000.0</u>	
Development Charges										
DC - Transit		3,360.3	50.0				158.0	3,152.3		
Total Development Charges		<u>3,360.3</u>	<u>50.0</u>				<u>158.0</u>	<u>3,152.3</u>		
Reserves										
Transit Capital Reserve		50.0	50.0							
Total Reserves		<u>50.0</u>	<u>50.0</u>							
Capital Levy		<u>1,142.0</u>	<u>400.0</u>				<u>742.0</u>			

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Infrastructure and Planning Services Transit																	
Alternative Fuel Study for Transit	5-16.11	250.0		250.0		250.0				250.0							
Total		250.0		250.0		250.0				250.0							

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-16.11**Division:** Transportation - Transit**Climate Mitigation:** Yes**Project Name & Description**

Alternative Fuel Study for Transit

Commitments Made**Effects on Future Operating Budgets**

Use of alternative fuels in Transit Vehicles would typically reduce annual operating costs for conventional fossil fuels, but may increase other operating costs due to reduced range, cost of different fuel sources, etc.

Project Detail, Justification & Reference Map

Any decision to consider use of alternative fuels for City Fleet vehicles needs to consider a number of factors that may influence the costs associated with a change.

A study to consider the use of alternative fuel source(s) for the transit fleet is proposed to confirm an understanding of the full life cycle cost comparison to procure, operate, maintain, and provide the infrastructure and facilities to support a fleet of transit buses powered by electricity, Hydrogen, Compressed Natural Gas, or a hybrid power source.

The study will consider items such as GHG emissions, operating range of buses, impacts on transit operations and resulting operating costs, capital costs for vehicles, operating costs for training and maintenance, capital and operating costs for fueling and storage infrastructure, capital and operating costs for upgrades to the utility infrastructure to support the transit fleet, life expectancy of vehicles, decommissioning costs, and other costs or benefits that could be expected to be incurred over the life cycle of each vehicle.

The conclusions of this study will provide the information necessary to support a recommendation on the types of buses to purchase in the future and the infrastructure necessary to support any potential conversion of the transit fleet from traditional clean diesel powered buses. The study will also provide information on any requirements to incorporate into the new transit storage garage, which is being planned and designed under a separate project.

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Transportation - Transit										
Project Description	Alternative Fuel Study for Transit										
Project #	5-16.11										
Expenditures											
	Contractual Services	250.0		250.0							
Net Requirements		<u>250.0</u>		<u>250.0</u>							
To Be Financed From:											
Reserves											
	Climate Change action plan reserve	250.0		250.0							
Total Reserves		<u>250.0</u>		<u>250.0</u>							

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Traffic and Transportation																
Traffic Signal Controller Replacement Program	5-17.01	2,997.3	1,177.4	250.0		250.0	250.0				748.2	748.2	521.7	521.7	300.0	300.0
Traffic Calming Program	5-17.02	2,336.2		200.0		200.0	200.0				206.0	206.0	212.2	212.2	1,718.0	1,718.0
Traffic Signal Infrastructure	5-17.03	2,622.6	523.3	163.9		163.9	28.7			135.2	168.8	168.8	173.9	173.9	1,592.7	1,592.7
Intersection Pedestrian Safety Enhancements	5-17.04	646.8	203.0	106.1		106.1	106.1				109.3	109.3	112.6	112.6	115.9	115.9
Traffic Improvements	5-17.05	995.2	110.7	69.1		69.1	69.1				71.1	71.1	73.3	73.3	671.0	671.0
Smart Signal Implementation	5-17.06	2,000.0									1,000.0		1,000.0	500.0		
Traffic Signal Uninterrupted Power Supply Equipment	5-17.07	400.1	146.8								166.4	166.4	86.9	86.9		
New Traffic Control and Street Name Signs	5-17.08	72.1	35.0								37.1	37.1				
Total		12,070.3	2,196.2	789.1		789.1	653.9			135.2	2,506.9	1,506.9	2,180.5	1,680.5	4,397.7	4,397.7

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-17.01**Division:** Transportation - Traffic and Transportation**Project Name & Description**

Traffic Signal Controller Replacement Program

Commitments Made

Council, in approving Report USDIR18-002, established funding for a series of Transportation studies and improvements including the development of a Signal System Update Program. The Traffic Signal Controller upgrades are required to implement Smart Signal systems across the city.

Effects on Future Operating Budgets

The implementation of new traffic signal controllers will reduce maintenance costs funded through operating budgets.

Project Detail, Justification & Reference Map

This multi-year program is intended to replace the City's aging on-street traffic signal controller equipment. The City operates and maintains 134 signalized intersections across the city, of which 25% are in excess of fourteen years and have reached the end of their service life. Of the remaining 98 traffic signal controllers, approximately 80 controllers are between 8 and 14 years old. The average expected service life of traffic signal controller equipment is 14 years. The implementation of this program is necessary to support upgrading the centralized traffic signal control system and implementing advanced Smart Signals on various corridors.

Future budgets have been increased by 3% annually, to accommodate for projected cost increases.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Traffic and Transportation									
Project Description	Traffic Signal Controller Replacement Program									
Project #	5-17.01									
Expenditures										
Contractual Services	2,997.3	1,177.4		250.0	748.2	521.7	300.0			
Net Requirements	<u>2,997.3</u>	<u>1,177.4</u>		<u>250.0</u>	<u>748.2</u>	<u>521.7</u>	<u>300.0</u>			
To Be Financed From:										
Reserves										
Traffic Signals Reserve	<u>267.0</u>	<u>267.0</u>								
Total Reserves	<u>267.0</u>	<u>267.0</u>								
Capital Levy	<u>2,730.3</u>	<u>910.4</u>		<u>250.0</u>	<u>748.2</u>	<u>521.7</u>	<u>300.0</u>			

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-17.02**Division:** Transportation - Traffic and Transportation**Project Name & Description**

Traffic Calming Program

Commitments Made

Council, at their meeting of October 28, 2019, approved a motion directing staff to report back to council prior to the 2021 budget review process to recommend a traffic calming plan for residential neighbourhoods, with a plan to implement them in at least 5 neighbourhoods, one for each Ward of the City, in 2021. This program will initially fund the implementation of these projects.

Effects on Future Operating Budgets

Increase in future operating budgets to provide staff resources to manage the program.

Project Detail, Justification & Reference Map

This project will focus on funding the implementation of traffic calming infrastructure in 5 neighbourhoods, one in each Ward of the City. Following completion of the Traffic Calming Study and pilot projects in each Ward, an annual funding program will be established to accommodate future Traffic Calming requests that emerge throughout the year via requests from the public, City Council and staff.

Traffic Calming Infrastructure includes projects such as the installation of curb extensions, narrowing of roadways, restricting traffic turning movements, speed cushions, signs, pedestrian refuge islands, median islands, mini traffic circles and driver feedback signs. Throughout each year, projects and priorities will be recommended for approval by Council.

Future base budgets have been increased by 3% annually, to accommodate for projected construction cost increases.

Accessibility Considerations

This project will benefit all, by reducing vehicle speed and enhancing pedestrian environment.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Transportation - Traffic and Transportation										
Project Description	Traffic Calming Program										
Project #	5-17.02										
Expenditures											
Contractual Services		2,336.2		200.0	206.0	212.2	218.6	231.9	1,267.6		
Net Requirements		<u>2,336.2</u>		<u>200.0</u>	<u>206.0</u>	<u>212.2</u>	<u>218.6</u>	<u>231.9</u>	<u>1,267.6</u>		
To Be Financed From:											
Capital Levy		<u>2,336.2</u>		<u>200.0</u>	<u>206.0</u>	<u>212.2</u>	<u>218.6</u>	<u>231.9</u>	<u>1,267.6</u>		

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-17.03

Division: Transportation - Traffic and Transportation

Project Name & Description

Traffic Signal Infrastructure Improvements

Commitments Made

Effects on Future Operating Budgets

This program will result in reduced future maintenance costs.

Project Detail, Justification & Reference Map

This is a multi-year program to replace aged traffic signal equipment to meet minimum standards and control increasing maintenance costs. The condition of existing traffic signal infrastructure has reached high need for replacement. This program includes the replacement of poles, signal heads, pedestrian push buttons, detection equipment and mast arms.

Each year intersections are identified for improvement, based on condition ratings and work programs and available funding. There are currently 134 traffic signals city-wide (fifteen are Intersection Pedestrian Signals). Through new developments and road reconstruction programs, three additional signalized intersections will be added to the inventory in 2021.

Future budgets have been increased by 3% annually to accommodate projected cost increases.

Accessibility Considerations

Traffic signal infrastructure improvements include upgrading traffic signal equipment to meet the needs of people with disabilities. All new traffic signals include audible pedestrian signals and accessibility features. The location for installation of audible pedestrian signals is determined jointly by City staff and members of the Accessibility Advisory Committee. Two locations for audible pedestrian signals were identified in 2021.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Traffic and Transportation									
Project Description	Traffic Signal Infrastructure									
Project #	5-17.03									
Expenditures										
Contractual Services		2,622.6	523.3	163.9	168.8	173.9	179.1	184.5	1,008.8	220.3
Net Requirements		<u>2,622.6</u>	<u>523.3</u>	<u>163.9</u>	<u>168.8</u>	<u>173.9</u>	<u>179.1</u>	<u>184.5</u>	<u>1,008.8</u>	<u>220.3</u>
To Be Financed From:										
Reserves										
Traffic Signals Reserve		<u>2,593.9</u>	<u>523.3</u>	<u>135.2</u>	<u>168.8</u>	<u>173.9</u>	<u>179.1</u>	<u>184.5</u>	<u>1,008.8</u>	<u>220.3</u>
Total Reserves		<u>2,593.9</u>	<u>523.3</u>	<u>135.2</u>	<u>168.8</u>	<u>173.9</u>	<u>179.1</u>	<u>184.5</u>	<u>1,008.8</u>	<u>220.3</u>
Capital Levy		<u>28.7</u>		<u>28.7</u>						

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-17.04**Division:** Transportation - Traffic and Transportation**Project Name & Description**

Intersection Pedestrian Safety Enhancements and Ladder Crosswalks

A project to promote pedestrian safety by improving existing crosswalks at signalized intersections through the implementation of ladder pavement markings and countdown pedestrian signals.

Commitments Made**Effects on Future Operating Budgets**

Increase in future operating budgets to maintain the added traffic signal and pavement marking infrastructure.

Project Detail, Justification & Reference Map

This project is the continuation of a multi-year program to enhance pedestrian safety at signalized intersections, through supplementing the traditional pedestrian signals with countdown pedestrian signals and upgrading existing pavement markings, to enhanced ladder crosswalk pavement markings at busy intersections across the city.

Each year intersections will be identified, based on pedestrian volumes and work programs, and will be set as funding permits. Funding for 2020 was deferred and requested funding for 2021 will allow for a continuation of the program to upgrade pedestrian crossings at major intersections on arterial roads.

Future budgets have been increased by 3% annually to accommodated projected increased costs.

Accessibility Considerations

This project will benefit all, by enhancing pedestrian visibility at signalized intersections.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Traffic and Transportation									
Project Description	Intersection Pedestrian Safety Enhancements									
Project #	5-17.04									
Expenditures										
Contractual Services		646.8	203.0	106.1	109.3	112.6	115.9			
Net Requirements		<u>646.8</u>	<u>203.0</u>	<u>106.1</u>	<u>109.3</u>	<u>112.6</u>	<u>115.9</u>			
To Be Financed From:										
Reserves										
Insurance Reserve		103.0	103.0							
Total Reserves		<u>103.0</u>	<u>103.0</u>							
Capital Levy		<u>543.8</u>	<u>100.0</u>	<u>106.1</u>	<u>109.3</u>	<u>112.6</u>	<u>115.9</u>			

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-17.05**Division:** Transportation - Traffic and Transportation**Project Name & Description**

Traffic Improvements

Commitments Made**Effects on Future Operating Budgets**

Potential for reduced risk in roadway operation.

Project Detail, Justification & Reference Map

Continuation of the traffic improvements program implementing various projects that emerge throughout the year via requests from the public, City Council and staff.

Improvements include projects such as the installation of pedestrian intersection signals, flashing beacons, turn lanes, new signs, channelization and traffic islands. Throughout each year, priorities and projects are advanced and reported to Council.

Future base budgets have been increased by 3% annually, to accommodate for projected construction cost increases.

Accessibility Considerations

Accessibility improvements will be included where applicable (i.e. pedestrian intersection signals).

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045						
				2021	2022	2023	2024	2025								
Department	Infrastructure and Planning Services															
Division	Transportation - Traffic and Transportation															
Project Description	Traffic Improvements															
Project #	5-17.05															
Expenditures																
Contractual Services	995.2	110.7	69.1	71.1	73.3	75.5	77.7	425.0	92.8							
Direct Revenue																
Contribution from related project	45.6	45.6														
Total Direct Revenue	45.6	45.6														
Net Requirements	949.6	65.1	69.1								71.1	73.3	75.5	77.7	425.0	92.8
To Be Financed From:																
Capital Levy	949.6	65.1	69.1	71.1	73.3	75.5	77.7	425.0	92.8							

2021 - 2030 Capital Budget Justification

Tangible Capital Assets

Department: Infrastructure and Planning Services

Budget Reference #: 5-17.06

Division: Transportation - Traffic and Transportation

Climate Mitigation: Yes

Project Name & Description

Smart Traffic Signal Implementation

Commitments Made

Council, in approving Report USDIR18-002, established funding for a series of Transportation studies and improvements including the development of a Signal System Update Program.

Effects on Future Operating Budgets

Full implementation of Smart Traffic Signals will result in some increased operational costs such as additional dedicated staff resources to run the system, maintenance of the high tech detection equipment, and increased annual costs for data communication and networking.

Project Detail, Justification & Reference Map

This project will focus on funding the installation of field equipment necessary to implement a "Smart Traffic Signal" system across the city, where the traffic signals can detect prevailing traffic demands and traffic flow conditions in real time, and automatically adapt the signal settings to optimize the flow of traffic along major arterial roads. In 2020, a new central traffic signal control system was purchased, and work was initiated to upgrade approximately 130 traffic signal controllers across the City, and implement a pilot project to test an adaptive traffic signal system. In 2021, work will continue with field implementation of new equipment needed for Smart Signals on additional arterial roads. This work will include enhancements to the communication infrastructure in the field, so that traffic signal controllers at various intersections can share data and communicate in real time. Implementation will be coordinated with ongoing construction projects. More efficient flow of traffic can result in reduced congestion, lower emissions, reduced vehicle idling, and fewer accidents. The system can be programmed to assist First Response by allowing for pre-emption and enhanced control of traffic signals. Requested funding in 2021 will allow for implementation of Smart Signal Technology at approximately 20 intersections.

Accessibility Considerations

Opportunities to upgrade existing signals to provide audible pedestrian signals will be incorporated where possible.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Traffic and Transportation									
Project Description	Smart Signal Implementation									
Project #	5-17.06									
Expenditures										
Contractual Services		2,000.0			1,000.0	1,000.0				
Direct Revenue										
Contribution from related project		1,500.0			1,000.0	500.0				
Total Direct Revenue		<u>1,500.0</u>			<u>1,000.0</u>	<u>500.0</u>				
Net Requirements		<u>500.0</u>				<u>500.0</u>				
To Be Financed From:										
Capital Levy		<u>500.0</u>				<u>500.0</u>				

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-17.07**Division:** Transportation - Traffic and Transportation**Climate Mitigation:** Yes**Project Name & Description**

Traffic Signal Uninterrupted Power Supply Equipment

Commitments Made**Effects on Future Operating Budgets**

This project reduces the cost of providing paid duty officers to direct traffic during planned outages.

Project Detail, Justification & Reference Map

This multi-year program is intended to upgrade existing signalized intersections by adding uninterrupted power supply equipment (back up power supply) to allow traffic signals to continue to operate during power outages. Each year intersections will be identified, based on pedestrian and vehicle volumes, work programs, and available funding. The initial focus will be on intersections in the downtown and on the arterial road network. This type of device reduces the risk of both vehicle-vehicle and vehicle-pedestrian collisions during power outages.

Future budgets have been increased by 3% annually, to accommodate projected cost increases.

Accessibility Considerations

This project will benefit by maintaining audible traffic signal operation during a power outage.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Traffic and Transportation									
Project Description	Traffic Signal Uninterrupted Power Supply Equipment									
Project #	5-17.07									
Expenditures										
Contractual Services		400.1	146.8		166.4	86.9				
Net Requirements		<u>400.1</u>	<u>146.8</u>		<u>166.4</u>	<u>86.9</u>				
To Be Financed From:										
Capital Levy		<u>400.1</u>	<u>146.8</u>		<u>166.4</u>	<u>86.9</u>				

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-17.08**Division:** Transportation - Traffic and Transportation**Project Name & Description**

New Traffic Control and Street Name Sign Program

Commitments Made**Effects on Future Operating Budgets**

Future operating budgets will reflect the cost of maintaining the sign infrastructure.

Project Detail, Justification & Reference Map

This program will be funded by two separate sources. The cost of installing signs in new residential developments will be funded by the existing Development Sign Reserve, with the remainder funded through capital levy. For future years, the budget amount will be adjusted to reflect new development levels.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Traffic and Transportation									
Project Description	New Traffic Control and Street Name Signs									
Project #	5-17.08									
Expenditures										
Contractual Services	72.1	35.0		37.1						
Total Direct Revenue	72.1	35.0		37.1						
Net Requirements	72.1	35.0		37.1						
To Be Financed From:										
Reserves										
Development Project Signs Traffic Reserve	41.2	20.0		21.2						
Total Reserves	41.2	20.0		21.2						
Capital Levy	30.9	15.0		15.9						

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Infrastructure and Planning Services Transportation Planning																	
King Street Cycling Project	5-18.01	900.0	150.0								750.0						
Total		900.0	150.0								750.0						

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-18.01**Division:** Transportation - Transportation Planning**Climate Mitigation:** Yes**Project Name & Description**

King Street Cycling Project

Commitments Made

Report USDIR17-004, Streetscape and Public Realm for Charlotte Street from Aylmer Street to Park Street, recommended this project as a priority.

Effects on Future Operating Budgets

Additional maintenance costs will be associated with new cycling infrastructure such as winter maintenance, pavement marking, sign maintenance, etc.

Project Detail, Justification & Reference Map

King Street was originally recommended in the 2012 Comprehensive Transportation Plan to have cycling infrastructure, along with Charlotte Street. Council, at their meeting on January 28, 2019 adopted a motion to change the recommended design for Charlotte Street to include cycling lanes as part of the reconstruction, with the lane configuration to be determined during detailed design. The revision to the Charlotte Street project design may impact the priority of the King Street project, and as such this project will be deferred pending completion of the Cycling Network Update study. The cycling infrastructure options and concept design will be developed as part of the Cycling Network Update study with implementation anticipated for 2022.

Accessibility Considerations

Opportunities to incorporate accessibility improvements will be considered during concept and detailed design.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Transportation Planning									
Project Description	King Street Cycling Project									
Project #	5-18.01									
Expenditures										
Contractual Services		900.0	150.0		750.0					
Net Requirements		<u>900.0</u>	<u>150.0</u>		<u>750.0</u>					
To Be Financed From:										
Reserves										
Casino Gaming Reserve		<u>900.0</u>	<u>150.0</u>		<u>750.0</u>					
Total Reserves		<u>900.0</u>	<u>150.0</u>		<u>750.0</u>					

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Transportation Planning																
Transportation Planning Projects	5-18.02	109.8	72.5	37.3		37.3	37.3									
Total		109.8	72.5	37.3		37.3	37.3									

**2021 - 2030 Capital Budget Justification
Other Capital Assets**

Department: Infrastructure and Planning Services

Budget Reference #: 5-18.02

Division: Transportation - Transportation Planning

Climate Mitigation: Yes

Project Name & Description

Transportation Planning Projects

Commitments Made

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

The 2012 Transportation Plan provides a blueprint for the City's transportation system. The Plan contains many recommendations which require varying levels of added study to be implemented.

A number of these projects and initiatives are in the area of Transportation Demand Management formulating strategies to improve travel in the city including public transit, cycling and walking. This capital program will fund various activities such as specialized data collection on pedestrian and bicycle use, bike racks at area destinations, bike share programs, printing of cycling maps and guides, and consultants to assist with assessing project feasibility.

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Transportation - Transportation Planning									
Project Description	Transportation Planning Projects									
Project #	5-18.02									
Expenditures										
Contractual Services		109.8	72.5	37.3						
Net Requirements		<u>109.8</u>	<u>72.5</u>	<u>37.3</u>						
To Be Financed From:										
Capital Levy		<u>109.8</u>	<u>72.5</u>	<u>37.3</u>						

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Environmental Services																
WWTP Equipment Upgrades and Replacement	5-19.01	27,948.9	850.0	910.0		910.0			910.0		970.0	970.0	1,040.0	1,040.0	24,178.9	24,178.9
Replace Digester #1 and 2	5-19.02	15,500.0	500.0	900.0		900.0			900.0		4,100.0	4,100.0	10,000.0	10,000.0		
WWTP Electrical Sub Station Replacement	5-19.03	3,400.0		400.0		400.0			400.0				3,000.0	3,000.0		
Effluent Disinfection revitalization and expansion	5-19.04	10,750.0	750.0								5,000.0	5,000.0	5,000.0	5,000.0		
Total		57,598.9	2,100.0	2,210.0		2,210.0			2,210.0		10,070.0	10,070.0	19,040.0	19,040.0	24,178.9	24,178.9

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-19.01**Division:** Environmental Services - Environmental Services**Project Name & Description**

WWTP Equipment Upgrades and Replacement

Commitments Made**Effects on Future Operating Budgets**

The proactive replacement and upgrade of equipment used at the Wastewater Treatment Plant will ultimately save money in future operational budgets and ensure compliance with increasingly stringent environmental legislation.

Project Detail, Justification & Reference Map

The requests continue the on going preventative maintenance program at the Waste Water Treatment Plant to ensure long term reliable, economical operation. Examples include major valves, pumps, storage and capacity improvement etc.

The following equipment needs to be added, replaced or require Preventative Maintenance:

Raw sewage #1 Pump
Digester Mixer Pumps
New Godwin Pump
New Portable Generator
Process sensors
Raw sewage pump #2 Right angle drive replacement
Ashburnham sps valve actuators
Pumping stations spare pumps/replacements
Park Street actuated gate install, replace the leaking hand slide
Various Lab equipment

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Environmental Services - Environmental Services									
Project Description	WWTP Equipment Upgrades and Replacement									
Project #	5-19.01									
Expenditures										
Contractual Services	27,948.9	850.0	910.0	970.0	1,040.0	1,115.0	1,200.0	4,981.5	16,882.3	
Net Requirements	<u>27,948.9</u>	<u>850.0</u>	<u>910.0</u>	<u>970.0</u>	<u>1,040.0</u>	<u>1,115.0</u>	<u>1,200.0</u>	<u>4,981.5</u>	<u>16,882.3</u>	
To Be Financed From:										
Debentures										
Debenture - WWRF	910.0		910.0							
Total Debenture Financing	<u>910.0</u>		<u>910.0</u>							
Reserves										
Waste Water Reserve Reserve	27,038.9	850.0		970.0	1,040.0	1,115.0	1,200.0	4,981.5	16,882.3	
Total Reserves	<u>27,038.9</u>	<u>850.0</u>		<u>970.0</u>	<u>1,040.0</u>	<u>1,115.0</u>	<u>1,200.0</u>	<u>4,981.5</u>	<u>16,882.3</u>	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-19.02**Division:** Environmental Services - Environmental Services**Project Name & Description**

Replace Digester #1 and 2

Commitments Made

None

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

Digesters 1 and 2 are well beyond their life expectancy. Replacement is required to avoid failure of this equipment. Replacing these two digesters with a single digester will improve operations. The City of Peterborough has no redundancy with the heat exchanger, which poses risk in the event of equipment failure. This project will also involve installation of a second heat exchanger.

2020 - Development of Drawings, Specifications

2021 - Tender of work

2022/2023 - Replacement of Digesters and addition of a heat exchanger

Accessibility Considerations

None

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Environmental Services - Environmental Services									
Project Description	Replace Digester #1 and 2									
Project #	5-19.02									
Expenditures										
Contractual Services	15,500.0	500.0	900.0	4,100.0	10,000.0					
Net Requirements	15,500.0	500.0	900.0	4,100.0	10,000.0					
To Be Financed From:										
Debentures										
Debenture - WWRF	15,000.0		900.0	4,100.0	10,000.0					
Total Debenture Financing	15,000.0		900.0	4,100.0	10,000.0					
Reserves										
Waste Water Reserve Reserve	500.0	500.0								
Total Reserves	500.0	500.0								

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-19.03**Division:** Environmental Services - Environmental Services**Climate Mitigation:** Yes**Project Name & Description**

WWTP Electrical Sub Station Replacement

Commitments Made

None

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

The electrical sub station at the WWTP is at the end of life. Many parts of the original installation fail to meet current code requirements. Coupled with the fact that the co generation grounding pad needs repair, this project has become a priority.

2021 - Development of design, drawings and tender package
2023 - Electrical sub station and grounding grid replacement

Accessibility Considerations

None

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Environmental Services - Environmental Services										
Project Description	WWTP Electrical Sub Station Replacement										
Project #	5-19.03										
Expenditures											
Contractual Services		3,400.0		400.0		3,000.0					
Net Requirements		<u>3,400.0</u>		<u>400.0</u>		<u>3,000.0</u>					
To Be Financed From:											
Debentures											
Debenture - WWRF		3,400.0		400.0		3,000.0					
Total Debenture Financing		<u>3,400.0</u>		<u>400.0</u>		<u>3,000.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-19.04**Division:** Environmental Services - Environmental Services**Project Name & Description**

Effluent Disinfection Revitalization and Expansion

Commitments Made

None

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

The City of Peterborough currently disinfects effluent with a Trojan 3000 system that was installed in 1990's. The system is reaching the anticipated end of functional use. The City must review all disinfection technologies to find the best fit for a new system. It is expected that the Ferric Storage facility will also need to be moved to accommodate the required footprint for potential Tertiary filters.

2020 - Development of Drawings, Tenders and ECA Amendments
2022 - Construction

Accessibility Considerations

None

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Environmental Services - Environmental Services									
Project Description	Effluent Disinfection revitalization and expansion									
Project #	5-19.04									
Expenditures										
Contractual Services		10,750.0	750.0		5,000.0	5,000.0				
Net Requirements		<u>10,750.0</u>	<u>750.0</u>		<u>5,000.0</u>	<u>5,000.0</u>				
To Be Financed From:										
Debentures										
Debenture - WWRF		<u>10,000.0</u>			5,000.0	5,000.0				
Total Debenture Financing		<u>10,000.0</u>			<u>5,000.0</u>	<u>5,000.0</u>				
Reserves										
Waste Water Reserve Reserve		<u>750.0</u>	750.0							
Total Reserves		<u>750.0</u>	<u>750.0</u>							

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services Environmental Services																
Environmental remediation contingency fund	5-19.05	1,250.0		250.0		250.0	250.0				250.0	250.0	250.0	250.0	500.0	500.0
Nelson Landfill Monitoring Program	5-19.06	8,237.0	2,237.0												6,000.0	2,000.0
Harper Road Landfill	5-19.07	9,125.0	3,925.0												5,200.0	5,200.0
Total		18,612.0	6,162.0	250.0		250.0	250.0				250.0	250.0	250.0	250.0	11,700.0	7,700.0

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-19.05**Division:** Environmental Services - Environmental Services**Project Name & Description**

The Environmental Remediation contingency will support emergent City of Peterborough environmental contamination characterization and remediation requirements.

Commitments Made

The City of Peterborough Environmental Services division is relied on as a City resource for decisions on land acquisition and management. Investigations to support these decisions require stable funding. Delays in these decisions could result in increased remediation requirements, liabilities, or MECP binding orders.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

Environmental sites are regulated by the Ministry of Environment, Conservation, and Parks (MECP). Frequently the city must perform timely investigation (Phase 1 & 2 Environmental Assessments) to support property acquisition decisions, or management of existing City sites. These decisions have significant long term risks and liability for the City, and delays could lead to MECP orders carrying additional costs.

Future budgets will require funding to support Environmental Management decisions, however educated and timely response should decrease future liabilities, and costs.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Environmental Services - Environmental Services										
Project Description	Environmental remediation contingency fund										
Project #	5-19.05										
Expenditures											
Contractual Services		1,250.0		250.0	250.0	250.0	250.0	250.0			
Net Requirements		<u>1,250.0</u>		<u>250.0</u>	<u>250.0</u>	<u>250.0</u>	<u>250.0</u>	<u>250.0</u>			
To Be Financed From:											
Capital Levy		<u>1,250.0</u>		<u>250.0</u>	<u>250.0</u>	<u>250.0</u>	<u>250.0</u>	<u>250.0</u>			

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-19.06**Division:** Environmental Services - Environmental Services**Project Name & Description**

Nelson Landfill Monitoring Program

Commitments Made

On October 8, 2010, a Tri-Party Agreement was executed by the City establishing an annual budget commitment of \$5,000/year for a 20 year period. No further work will be conducted on this project until a new agreement with the stakeholders is reached. The MECP have issued a draft order. The Tri-Parties are preparing a response via an Environmental Management Plan including proposed monitoring and remediation activities for MECP agreement. Review and acceptance from the MECP is expected in 2021, and will provide more clarity on the monitoring and remediation requirements and commitments.

Effects on Future Operating Budgets

The Environmental Management Plan currently being drafted will include proposed monitoring and remediation actions. Additional funds are likely required and will be better defined in 2021 if a new agreement is reached.

Project Detail, Justification & Reference Map

The City, in conjunction with Otonabee South Monaghan Township and Fred Nelson and Sons, operated a licensed landfill site in the township on lands owned by Fred Nelson from the early 1970s to mid 1980. Environmental legislation under the EPA requires on-going monitoring for all landfills registered in Ontario to ensure there are no risks to human health or the environment as a result of landfill operations.

Results from ongoing monitoring indicate a need to address elevated contamination (PCBs) at the former landfill. Remedial measures are being better defined during negotiations with the MECP with implementation expected to begin in 2021.

As negotiations continue with the stakeholder's and the MECP, there may be a need to increase the City's share of funds depending on findings of annual results and the framework of the new agreement.

Accessibility Considerations

None.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to 2030	2031 to 2045
		Total	Pre-2021	2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Environmental Services - Environmental Services									
Project Description	Nelson Landfill Monitoring Program									
Project #	5-19.06									
Expenditures										
Contractual Services	8,237.0	2,237.0							3,000.0	3,000.0
Direct Revenue										
Other Mun-grants & fees	2,713.3	713.3							1,000.0	1,000.0
Recoveries	2,710.8	710.8							1,000.0	1,000.0
Total Direct Revenue	<u>5,424.2</u>	<u>1,424.2</u>					<u>2,000.0</u>	<u>2,000.0</u>		
Net Requirements	<u>2,812.8</u>	<u>812.8</u>					<u>1,000.0</u>	<u>1,000.0</u>		
To Be Financed From:										
Reserves										
Capital Levy Reserve	39.0	39.0								
Infrastructure Planning Services Capital Reserve	7.5	7.5								
Total Reserves	<u>46.5</u>	<u>46.5</u>								
Capital Levy	<u>2,766.3</u>	<u>766.3</u>					<u>1,000.0</u>	<u>1,000.0</u>		

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-19.07**Division:** Environmental Services - Environmental Services**Project Name & Description**

Harper Road Landfill - Former Waste Disposal Site

Commitments Made

The City has been directed by the Ministry of the Environment, Conservation and Parks (MECP) to apply for an Environmental Compliance Approval (ECA) for the closed Harper Road Landfill. Work is ongoing to prepare a comprehensive Environmental Management Plan including registration, monitoring, and remediation requirements.

Effects on Future Operating Budgets

Future clean-up and remedial initiatives will ultimately impact future budgets. These actions will be dictated by the Environmental Management Plan and ECA once they are approved by the Ministry of the Environment, Conservation and Parks. Funds remaining from previous commitments will be utilized to support the application and MECP negotiation with greater clarity on long term requirements from MECP agreements expected in 2021.

Project Detail, Justification & Reference Map

The City of Peterborough operated a landfill site from approximately the mid-1940s to the mid-1960s in the area of Harper Road and Sir Sandford Fleming Drive. This is not an engineered facility and the site received both municipal and industrial waste. Recently (2008 onwards) some work was performed which was initiated to address PCB seeps to surface water in the surrounding surface water streams. Through the MECP negotiations underway, clear and concise directives will be achieved outlining provisions to manage the former landfill according to today's applicable laws and standards.

Accessibility Considerations

None.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to	2031 to				
		Total	Pre-2021	2021	2022	2023	2024	2025	2030	2045				
Department	Infrastructure and Planning Services													
Division	Environmental Services - Environmental Services													
Project Description	Harper Road Landfill													
Project #	5-19.07													
Expenditures														
Contractual Services	9,125.0	3,925.0										1,000.0	1,000.0	3,200.0
Net Requirements	9,125.0	3,925.0										1,000.0	1,000.0	3,200.0
To Be Financed From:														
Reserves														
Capital Levy Reserve	2,000.0	2,000.0												
Infrastructure Planning Services Capital Reserve	25.0	25.0												
Total Reserves	2,025.0	2,025.0												
Capital Levy	7,100.0	1,900.0				1,000.0	1,000.0	3,200.0						

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Infrastructure and Planning Services																
Waste Management																
Peterborough Landfill Site	5-20.01	21,314.5	11,604.5	4,240.0	2,120.0	2,120.0				2,120.0	475.0	237.5	1,545.0	772.5	3,450.0	1,725.0
Peterborough Organics	5-20.02	15,300.0	10,130.6	1,700.0		1,700.0				1,700.0	1,700.0	1,700.0	1,769.4	1,769.4		
Total		36,614.5	21,735.1	5,940.0	2,120.0	3,820.0				3,820.0	2,175.0	1,937.5	3,314.4	2,541.9	3,450.0	1,725.0

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-20.01**Division:** Waste Mgmt - Waste Management**Climate Mitigation:** Yes**Project Name & Description**

Peterborough County/City Waste Management Facility

Commitments Made

The City and County entered into an agreement on July 1, 2002, to jointly own and operate the Peterborough Waste Management Facility and share all costs and revenues on a 50-50 basis.

Effects on Future Operating Budgets

The operating budget includes a "Landfill Operations" activity that captures ongoing operating costs associated with the site and tipping fee revenues all of which are cost shared 50-50 with the County.

The waste disposal capacity and annual fill rates are based on best estimates and will be refined annually.

Project Detail, Justification & Reference Map

Cell 2 of the North Fill Area is nearing completion and will be capped in 2021

Cell 3 will continue to receive waste for approximately three to four more years.

Cell 4 design and construction began in 2020

The following 2021 Capital Projects are proposed:

- Expand landfill gas collection system
- Cell 4 design and construction costs
- Haul Soil Off-site
- Public drop-off concrete and bin rehabilitation

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Infrastructure and Planning Services										
Division	Waste Mgmt - Waste Management										
Project Description	Peterborough Landfill Site										
Project #	5-20.01										
Expenditures											
Contractual Services	21,314.5	11,604.5	4,240.0	475.0	1,545.0	2,000.0			1,450.0		
Total Direct Revenue	21,314.5	11,604.5	4,240.0	475.0	1,545.0	2,000.0			1,450.0		
Direct Revenue											
Other Mun-grants & fees	10,657.3	5,802.3	2,120.0	237.5	772.5	1,000.0			725.0		
Total Direct Revenue	10,657.3	5,802.3	2,120.0	237.5	772.5	1,000.0			725.0		
Net Requirements	10,657.3	5,802.3	2,120.0	237.5	772.5	1,000.0			725.0		
To Be Financed From:											
Reserves											
Waste Management Reserve	10,657.3	5,802.3	2,120.0	237.5	772.5	1,000.0			725.0		
Total Reserves	10,657.3	5,802.3	2,120.0	237.5	772.5	1,000.0			725.0		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-20.02**Division:** Waste Mgmt - Waste Management**Climate Mitigation:** Yes**Project Name & Description**

Source Separated Organics program implementation

Commitments Made

Despite the change in Provincial Government, the Resource Recovery and Circular Economy Act, 2016 have not been revised or rescinded. The Act will mandate resource recovery of food and organic waste through a landfill ban forcing the implementation of an Organics Program in Peterborough, by 2023. The diversion of organics from the landfill to a processing facility will extend the landfill life, and create a valuable product.

In considering report IPS 19-010, Council approved establishing a \$15.3M project budget, with a transfer of \$4M from Leaf and Yard Waste Compost Facility (2019 Capital Budget #5-21-02), a pre-commitment of Capital funding of \$1.7M 2021 and \$1,769,414 in 2022. The City has also received \$6,110,586 from the Low Carbon Economy Fund (LCEF) for the project.

Effects on Future Operating Budgets

Despite the significant capital cost and ongoing operating costs, it is expected the increased costs will be offset by increased life expectancy of the current City and County landfill, and the entire project will be supported by a Federal Government Grant.

Project Detail, Justification & Reference Map

In September 2019 the City received a Federal Grant for 40% funding to support the costs of implementing an organics program. The project is ramping up to initiate design and approvals with a 2023 program implementation target.

Accessibility Considerations

Where possible accessibility will be considered.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Infrastructure and Planning Services									
Division	Waste Mgmt - Waste Management									
Project Description	Peterborough Organics									
Project #	5-20.02									
Expenditures										
Contractual Services		15,300.0	10,130.6	1,700.0	1,700.0	1,769.4				
Direct Revenue										
Federal Grant		6,110.6	6,110.6							
Total Direct Revenue		<u>6,110.6</u>	<u>6,110.6</u>							
Net Requirements		<u>9,189.4</u>	<u>4,020.0</u>	<u>1,700.0</u>	<u>1,700.0</u>	<u>1,769.4</u>				
To Be Financed From:										
Debentures										
Deb Revenue - WMRF		3,000.0	3,000.0							
Total Debenture Financing		<u>3,000.0</u>	<u>3,000.0</u>							
Reserves										
Provincial Gas Tax		20.0	20.0							
Waste Management Reserve		6,169.4	1,000.0	1,700.0	1,700.0	1,769.4				
Total Reserves		<u>6,189.4</u>	<u>1,020.0</u>	<u>1,700.0</u>	<u>1,700.0</u>	<u>1,769.4</u>				

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Infrastructure and Planning Services Administration																	
Development Client Service Enhancement Project	5-21.01	162.5	130.0	32.5		32.5				32.5							
Total		162.5	130.0	32.5		32.5				32.5							

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Infrastructure and Planning Services**Budget Reference #:** 5-21.01**Division:** IPS Administration - Administration**Project Name & Description**

The Development Client Service Enhancement Project

This project focuses on streamlining the development the review and approval processes,. Main area of service improvement initiatives are transparency, application tracking, coordination between divisions and communication with all stakeholders. The focus is on the approval processes for review of Land-use Planning Applications and processes related to Building permits

Commitments Made

Approximately \$25,000 was spent in 2018. In 2019 and 2020, enhancements were made to the Amanda approvals system and the associated workflow mapping.

Effects on Future Operating Budgets

The project will span approximately 5 years, using existing staff. Future resources may be required to support the development review process as the City achieves growth targets and applications, required review and permitting increases.

Project Detail, Justification & Reference Map

The IPS department is taking a centralized approach to mapping development related processes, clarifying inter-action points between divisions and modernizing the process using technology.

Key accomplishments:

Streamlining of the Site Plan approval process

The implementation of a scheduled pre-application consultation meeting with key staff and potential applicant to ensure clarity of the information to be included for a complete application. A similar scheduled collaborative meeting occurs during the review of the development application. These changes have resulted in immediate improvements.

In parallel, staff is working to automate processes and track applications throughout the steps of the review.

For 2021, work will focus on a public portal for Building permit applications. For Planning applications, documents and studies will be shared via a web based application until full processes can be developed in the Amanda system.

Project oversight is occurring through the office of the Commissioner of IPS and the senior managers.

Accessibility Considerations

None at this time.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to	2031 to
		Total	Pre-2021	2021	2022	2023	2024	2025	2030	2045
Department	Infrastructure and Planning Services									
Division	USD Administration - Administration									
Project Description	Development Client Service Enhancement Project									
Project #	5-21.01									
Expenditures										
Contractual Services		162.5	130.0	32.5						
Net Requirements		162.5	130.0	32.5						
To Be Financed From:										
Reserves										
Building Division Reserve		70.0	55.0	15.0						
Subdivision Engineering Fees Reserve		75.0	57.5	17.5						
Total Reserves		145.0	112.5	32.5						
Capital Levy		17.5	17.5							

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Community Services Summary																
Museum	6-1	750.8		70.0		70.0	70.0				130.0	130.0			550.8	550.8
Library	6-2	5,577.9	50.0	531.0		531.0		125.5		405.5	540.8	540.8	552.7	552.7	3,903.4	3,903.4
Art Gallery	6-3	18,875.0	140.0								135.0	135.0	6,550.0	3,550.0	12,050.0	10,050.0
Arenas	6-4	88,208.5	4,527.5	250.0		250.0	250.0				21,370.0	21,370.0	21,265.0	21,265.0	40,796.0	38,796.0
Recreation	6-5	9,672.0	1,055.0	80.0	80.0						4,304.0	4,200.0	2,186.0	2,080.0	2,047.0	1,366.0
Total		123,084.2	5,772.5	931.0	80.0	851.0	320.0	125.5		405.5	26,479.8	26,375.8	30,553.7	27,447.7	59,347.2	54,666.2

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Community Services Summary																
Museum	6-1	50.0													50.0	50.0
Art Gallery	6-3	625.5	39.4	20.3		20.3	20.3				20.7	20.7	21.1	21.1	524.0	524.0
Recreation	6-5	575.0	100.0	75.0		75.0				75.0	75.0	75.0	75.0	75.0	250.0	250.0
Arts Culture and Heritage	6-6	4,970.6	790.6	280.0	20.0	260.0	260.0				570.0	570.0	250.0	250.0	3,080.0	3,080.0
Social Services	6-7	19,136.0	8,534.0	1,173.0	833.0	340.0		105.6		234.4	1,358.0	407.4	1,393.0	407.4	6,678.0	2,769.9
Total		25,357.1	9,464.0	1,548.3	853.0	695.3	280.3	105.6		309.4	2,023.7	1,073.0	1,739.1	753.5	10,582.0	6,673.9

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Community Services Museum																
Museum - Signage	6-1.01	200.0		70.0		70.0	70.0				130.0	130.0				
Museum - Exhibition Renewal Project	6-1.02	550.8													550.8	550.8
Total		750.8		70.0		70.0	70.0				130.0	130.0			550.8	550.8

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Community Services**Budget Reference #:** 6-1.01**Division:** Museum - Museum**Climate Adaptation:** Yes**Project Name & Description**

Museum - Signage

Commitments Made

Museum 5 Year Plan (2018-2023) Accommodation Objective 5:
Augment the Identification of the Museum within the City of
Peterborough.

Effects on Future Operating Budgets

There will be no impact on future operating budgets.

Project Detail, Justification & Reference Map

The Museum's existing signage, installed in the 1980s, is due for replacement. The signage has been repaired over the years, but is now past investment. The Hunter Street East - Museum Drive intersection will be modified to better support school bus, public and private transit, cyclist and pedestrian access.

The change to the intersection necessitates new directional and promotional signage to the Museum. The sight lines of the Museum (tree removal, wider road access) have been impacted; for example, the Museum buildings are now visible from the Hunter Street Bridge. The change to the intersection is an opportunity for the Museum to enhance public access and visibility through new and improved way finding, banner mounts and lighting, as well as facade improvement.

The total cost of the Museum Signage Project is \$200,000, \$48,000 of which will come from the Museum's Reserve account leaving a net requirement of \$152,000 over 2 years (2021, 2022). The Museum Signage Project schedule aligns with the East City School construction schedule.

Accessibility Considerations

The Museum strives to ensure access to its grounds and resources for all users, including but not limited to, patrons, students, volunteers and employees, according to its Accessibility Plan 2017-2022.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Museum - Museum									
Project Description	Museum - Signage									
Project #	6-1.01									
Expenditures										
Contractual Services		200.0		70.0	130.0					
Net Requirements		<u>200.0</u>		<u>70.0</u>	<u>130.0</u>					
To Be Financed From:										
Reserves										
Museum Renovation Reserve		48.0			48.0					
Total Reserves		<u>48.0</u>			<u>48.0</u>					
Capital Levy		<u>152.0</u>		<u>70.0</u>	<u>82.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Community Services**Budget Reference #:** 6-1.02**Division:** Museum - Museum**Climate Adaptation:** Yes**Project Name & Description**

Museum - Exhibition Renewal Project

Commitments Made

Museum 5 - Year Plan Accommodation Objective 1: support a more complete long-term exhibition; Municipal Cultural Plan Strategic Direction 7.2.7: pursue recommendations of functional analysis studies for the AGP (Art Gallery), the PPL (Library) and the PMA (Museum).

Effects on Future Operating Budgets

It is anticipated that the completion of the Exhibition Renewal will generate an increase in visitation and an associated increase in operating revenue.

Project Detail, Justification & Reference Map

The current Exhibition, installed nearly 30 years ago (1990/91), tells the story of Peterborough to 1905. The longevity of the Exhibition speaks to the quality of the original work. However, the 125 years that Peterborough has been a "city" and its industrial past are untold. The Exhibition requires redevelopment to tell a comprehensive story in a modern way, incorporating the Museum's national treasures, the Balsillie Collection of Roy Studio Images and the Parks Studio fonds.

The Exhibition Renewal will require demolition, construction, graphic design, development and production, artifact preparation and interactives. Community consultation was completed for the Expansion Feasibility Study (2004); the data remains a useful starting point. The Museum's Exterior Cladding and Window Project (2017) resolved the moisture issues within the gallery, ensuring a suitable space for the exhibition of artifacts and archival material.

The Exhibition Renewal Project requires a financial commitment over two years, for a total of \$526,000, which will be leveraged for external funds wherever possible.

Accessibility Considerations

The Museum strives to ensure access to its grounds and resources for all users, including but not limited to, patrons, students, volunteers and employees, according to its Accessibility Plan 2017-2022.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Community Services										
Division	Museum - Museum										
Project Description	Museum - Exhibition Renewal Project										
Project #	6-1.02										
Expenditures											
Contractual Services		550.8					500.0	50.8			
Net Requirements		<u>550.8</u>					<u>500.0</u>	<u>50.8</u>			
To Be Financed From:											
Reserves											
Museum Renovation Reserve		<u>24.0</u>					<u>12.0</u>	<u>12.0</u>			
Total Reserves		<u>24.0</u>					<u>12.0</u>	<u>12.0</u>			
Capital Levy		<u>526.8</u>					<u>488.0</u>	<u>38.8</u>			

City of Peterborough
Other Capital Budget Summary
 2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Community Services Museum																
Museum - Strategic Plan	6-1.03	50.0													50.0	50.0
Total		50.0													50.0	50.0

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Community Services**Budget Reference #:** 6-1.03**Division:** Museum - Museum**Climate Adaptation:** Yes**Project Name & Description**

Museum Strategic Plan

Commitments Made

Municipal Cultural Plan Strategic Directive 1.8.1: Celebrate and promote the City's traditional connection with the Lift Lock and the Trent Severn Waterway.

Effects on Future Operating Budgets

A Strategic Plan is a requirement of the Community Museums Operating Grant, annual provincial operating funding.

Project Detail, Justification & Reference Map

In 2018, the Museum & Archives Advisory Committee approved a 5 Year Plan (2018-2023), comprising five Accommodation Objectives. The 5 Year Plan ensures that the Museum realizes its mandate and continues to develop as a community resource. Given the completion of the Museum Renewal Project and the Exhibition Renewal Project, the Museum is poised for community input and revitalization.

The Museum Strategic Plan will align with the City's corporate plans, for example, the Municipal Cultural Plan and The Strategic Plan for Recreation, Parks and Culture.

Accessibility Considerations

The Museum strives to ensure access to its grounds and resources for all users, including but not limited to, patrons, students, volunteers and employees, according to its Accessibility Plan (2017-2022).

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Museum - Museum									
Project Description	Museum - Strategic Plan									
Project #	6-1.03									
Expenditures										
Contractual Services		50.0						50.0		
Net Requirements		<u>50.0</u>						<u>50.0</u>		
To Be Financed From:										
Reserves										
Museum Renovation Reserve		12.0						12.0		
Total Reserves		<u>12.0</u>						<u>12.0</u>		
Capital Levy		<u>38.0</u>						<u>38.0</u>		

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Community Services Library																
2021 Collection Acquisitions	6-2.01	5,263.6		481.0		481.0		85.0		396.0	490.6	490.6	500.4	500.4	3,791.6	3,791.6
Book Kiosk	6-2.02	314.3	50.0	50.0		50.0		40.5		9.5	50.2	50.2	52.3	52.3	111.8	111.8
Total		5,577.9	50.0	531.0		531.0		125.5		405.5	540.8	540.8	552.7	552.7	3,903.4	3,903.4

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Community Services**Budget Reference #:** 6-2.01**Division:** Library - Library**Project Name & Description**

Collections Acquisitions

Commitments Made

Collection development is an annual on-going activity. Funding comes from the City contribution to the Library's operation budget, but transferred to a TCA reserve account.

Effects on Future Operating Budgets

The library maintains a zero-growth practice for the physical collection. For every item purchased, an equivalent one is withdrawn.

Collection growth and expansion is managed through the purchase of electronic resources and the downloadable collection. Circulation statistics have shown an increase and demonstrate a growing use of the electronic collection, particularly e-audiobooks and streaming services.

Increasing item costs, exchange rates and licencing for digital formats makes meeting demands challenging.

Project Detail, Justification & Reference Map

Libraries and their collections are ever changing. Libraries continue to offer print materials, but have modified collection practices to include digital and e-resources. As new formats are introduced, the Library has broadened its collection to include large print, e-books, downloadable audio books, CD-books, and MP3 formats to meet the needs of the Peterborough community. Large Print, DVDs, and audiobooks continue to be high demand items in the collection.

The Library must continuously renew the contents of the collection as items become dated, worn, are lost, or simply lose their appeal. Beyond acquiring all the desired formats, the Library must also meet the challenge of providing appropriate and accessible shelving for them.

The Province has subsidized, to a small degree, certain electronic subscriptions, when funding permits.

Accessibility Considerations

The Library acquires materials in a variety of formats, such as print, audio, and digital (when available) to meet varying accessibility needs.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Community Services										
Division	Library - Library										
Project Description	2021 Collection Acquisitions										
Project #	6-2.01										
Expenditures											
Contractual Services		5,263.6		481.0	490.6	500.4	510.4	520.6	2,760.5		
Total Direct Revenue		<u>5,263.6</u>		<u>481.0</u>	<u>490.6</u>	<u>500.4</u>	<u>510.4</u>	<u>520.6</u>	<u>2,760.5</u>		
Net Requirements		<u>5,263.6</u>		<u>481.0</u>	<u>490.6</u>	<u>500.4</u>	<u>510.4</u>	<u>520.6</u>	<u>2,760.5</u>		
To Be Financed From:											
Development Charges											
DC - Library		849.6		85.0	85.0	85.0	85.0	85.0	424.8		
Total Development Charges		<u>849.6</u>		<u>85.0</u>	<u>85.0</u>	<u>85.0</u>	<u>85.0</u>	<u>85.0</u>	<u>424.8</u>		
Reserves											
Tsf frm Materials Acquisition Deserve		4,414.0		396.0	405.6	415.5	425.5	435.7	2,335.8		
Total Reserves		<u>4,414.0</u>		<u>396.0</u>	<u>405.6</u>	<u>415.5</u>	<u>425.5</u>	<u>435.7</u>	<u>2,335.8</u>		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Community Services**Budget Reference #:** 6-2.02**Division:** Library - Library**Project Name & Description**

Library Book Kiosk - pilot project

Commitments Made

Machine was funded out of the Library reserves. Possible sponsorship opportunity.

Effects on Future Operating Budgets

Development charges will be used to fund ongoing collection maintenance (new items) for the kiosks.

The funds budgeted for 2021 and 2022 are to be used to expand the service by adding an additional 2 kiosks (one per year) at different locations (as yet to be determined) within the City.

Software maintenance costs will be included with ongoing Library technology maintenance plan.

Project Detail, Justification & Reference Map

Initial funds (combination of Library reserves and Development Charges) were used to purchase a Book Kiosk machine in 2020 located at the Peterborough Sport and Wellness Centre (PSWC). This machine will act as an additional library service point and provide a test model for additional co-operative services at City facilities and community locations.

The Kiosk provides library members the opportunity to borrow materials from a self-serve kiosk with their library card while at the PSWC. Materials may include audiobooks to listen to while you exercise, print materials to read while you wait for your children or sibling to finish their swimming lessons, etc. Selections available would be modified as needed to suit the interests of those borrowing from that location.

Accessibility Considerations

The Library acquires materials in a variety of formats, such as print, audio, and digital (when available) to meet varying accessibility needs.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Library - Library									
Project Description	Book Kiosk									
Project #	6-2.02									
Expenditures										
Contractual Services		314.3	50.0	50.0	50.2	52.3			111.8	
Net Requirements		<u>314.3</u>	<u>50.0</u>	<u>50.0</u>	<u>50.2</u>	<u>52.3</u>			<u>111.8</u>	
To Be Financed From:										
Development Charges										
DC - Library		243.0	40.5	40.5	40.5	42.4			79.2	
Total Development Charges		<u>243.0</u>	<u>40.5</u>	<u>40.5</u>	<u>40.5</u>	<u>42.4</u>			<u>79.2</u>	
Reserves										
Tsf frm Library Surplus D.Reserve		71.3	9.5	9.5	9.7	9.9			32.7	
Total Reserves		<u>71.3</u>	<u>9.5</u>	<u>9.5</u>	<u>9.7</u>	<u>9.9</u>			<u>32.7</u>	

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Community Services Art Gallery																	
Art Gallery of Peterborough (AGP) Facility	6-3.01	18,840.0	140.0								100.0	100.0	6,550.0	3,550.0	12,050.0	10,050.0	
AGP Strategic Plan	6-3.02	35.0									35.0	35.0					
Total		18,875.0	140.0								135.0	135.0	6,550.0	3,550.0	12,050.0	10,050.0	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Community Services**Budget Reference #:** 6-3.01**Division:** Art Gallery of Peterborough - Art Gallery**Climate Mitigation:** Yes**Project Name & Description**

Art Gallery of Peterborough (AGP) Facility

Commitments Made

A report recommending redevelopment of the AGP was presented through Report CSACH14-008 to Council. The functional analysis and feasibility studies were received and directed to guide the AGP development over the next decade.

Effects on Future Operating Budgets

The redevelopment of the AGP will require additional operating dollars including staffing to manage the increase in activities and square footage of the building. Corresponding increases in revenue generation are expected; however, it is anticipated that net operating costs will increase.

Project Detail, Justification & Reference Map

The 2014 feasibility study, based on the findings of the functional analysis of 2011, is a comparative study of the current AGP location on Little Lake to two potential downtown locations offering alternative development opportunities. The outcome was a consensus in favor of renovating and expanding the existing gallery site.

The 2019 update on the feasibility study reassessed facility use responding to current practice and requirements for public programs and space rentals. The updated study will inform 2022 design development.

Accessibility Considerations

The project will meet all AODA requirements. The implementation of this report should also consider the recommendations of the 2013 Accessibility Audit.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Art Gallery of Peterborough - Art Gallery									
Project Description	Art Gallery of Peterborough (AGP) Facility									
Project #	6-3.01									
Expenditures										
Contractual Services	18,840.0	140.0		100.0	6,550.0	12,050.0				
Direct Revenue										
Recoveries	4,000.0				2,000.0	2,000.0				
Community Sponsors	1,000.0				1,000.0					
Total Direct Revenue	5,000.0				3,000.0	2,000.0				
Net Requirements	13,840.0	140.0		100.0	3,550.0	10,050.0				
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	13,700.0			100.0	3,550.0	10,050.0				
Total Debenture Financing	13,700.0			100.0	3,550.0	10,050.0				
Capital Levy	140.0	140.0								

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Community Services**Budget Reference #:** 6-3.02**Division:** Art Gallery of Peterborough - Art Gallery**Project Name & Description**

AGP Strategic Plan

Commitments Made**Effects on Future Operating Budgets**

The Strategic Plan sets the key direction for our operations and program activities for the five year period. There is no direct impact on budget expense beyond the plan itself. However Revenue Generation and Fundraising Initiatives are included in the goals that are established. These are reviewed and adjusted annually to better meet established goals.

Project Detail, Justification & Reference Map

The AGP develops a strategic plan every five-years setting goals in consultation with our key partners, stakeholders, membership, community, including City staff and council.

It is a requirement for our operating grant from the Ontario Arts Council to have a current strategic plan in place.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Art Gallery of Peterborough - Art Gallery									
Project Description	AGP Strategic Plan									
Project #	6-3.02									
Expenditures										
Contractual Services		35.0			35.0					
Net Requirements		<u>35.0</u>			<u>35.0</u>					
To Be Financed From:										
Capital Levy		<u>35.0</u>			<u>35.0</u>					

City of Peterborough
Other Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Community Services Art Gallery																
AGP Publications	6-3.03	625.5	39.4	20.3		20.3	20.3				20.7	20.7	21.1	21.1	524.0	524.0
Total		625.5	39.4	20.3		20.3	20.3				20.7	20.7	21.1	21.1	524.0	524.0

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Community Services**Budget Reference #:** 6-3.03**Division:** Art Gallery of Peterborough - Art Gallery**Project Name & Description**

AGP Publications - the AGP produces publications in house and in partnership with other galleries that document exhibitions and contribute to the field.

Commitments Made

AGP negotiates the development of publications with exhibiting artists and partner galleries on an ongoing basis. Commitments are made and documented in contracts. The AGP funds these publications through a regular allocation. On occasion, additional revenues are generated through grant applications and partnerships with galleries.

Effects on Future Operating Budgets

This is a direct transfer from our regular operating budget to Capital. The funds previously appeared in our Programme Budget.

Project Detail, Justification & Reference Map

Publications projects typically outrun the fiscal year as they are large projects dependent on many factors (writers, photographers, editors, copyright, design, printing).

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Art Gallery of Peterborough - Art Gallery									
Project Description	AGP Publications									
Project #	6-3.03									
Expenditures										
Contractual Services		625.5	39.4	20.3	20.7	21.1	21.5	22.0	116.6	364.0
Net Requirements		625.5	39.4	20.3	20.7	21.1	21.5	22.0	116.6	364.0
To Be Financed From:										
Capital Levy		625.5	39.4	20.3	20.7	21.1	21.5	22.0	116.6	364.0

City of Peterborough
Tangible Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Community Services Arenas																
Facility Upgrades-Memorial Centre	6-4.01	1,343.5	147.5	250.0		250.0	250.0				100.0	100.0	25.0	25.0	821.0	821.0
New Arena and Aquatics Complex	6-4.02	73,000.0	3,500.0								20,000.0	20,000.0	20,000.0	20,000.0	29,500.0	27,500.0
Improvements to Morrow Park	6-4.03	10,180.0	680.0								500.0	500.0	1,000.0	1,000.0	8,000.0	8,000.0
Evinrude Banquet Facilities Upgrade	6-4.04	625.0	125.0								500.0	500.0				
Facility Upgrade-Community Arenas	6-4.05	1,665.0	75.0								50.0	50.0			1,540.0	1,540.0
Ice Resurfacers-All Arenas	6-4.06	1,260.0									180.0	180.0	180.0	180.0	900.0	900.0
Equipment Replacement-Arena Division	6-4.07	135.0									40.0	40.0	60.0	60.0	35.0	35.0
Total		88,208.5	4,527.5	250.0		250.0	250.0				21,370.0	21,370.0	21,265.0	21,265.0	40,796.0	38,796.0

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Community Services

Budget Reference #: 6-4.01

Division: Arenas - Arenas

Project Name & Description

Facility Upgrades-Memorial Centre

Commitments Made

Effects on Future Operating Budgets

Performing regular upgrades will assist to maintain the quality and efficiency of the arena facility.

Project Detail, Justification & Reference Map

2021

1. Event Services Equipment-Scoreboard Refurbishment \$250,000
Reinforcement of structure to align with current architectural standards, replacement of structural support hoist system and replacement of electrical services to unit. Existing videoboards and scoreboards will be reused.

2022

1. Tiered Seating Replacement \$100,000
Replacement seating for specific tiered seating sections. Existing seating that is removed will be used for replacement parts on other seats that are in need of repair.

2023

1. Facility Upgrades-Exterior Doors/Frames \$25,000

2024

1. Facility Upgrades-Security Gate for Club Lounge \$48,000
2. Facility Upgrade-Exterior Lighting Replacement \$61,000
3. Facility Upgrades-North Lobby Lighting Replacement \$22,000
4. Facility Upgrades-Restaurant Flooring Replacement \$30,000

2025-2029

1. Facility Upgrades-Various \$660,000

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Arenas - Arenas									
Project Description	Facility Upgrades-Memorial Centre									
Project #	6-4.01									
Expenditures										
Contractual Services	1,343.5	147.5		250.0	100.0	25.0	161.0	150.0	510.0	
Net Requirements		<u>1,343.5</u>	<u>147.5</u>	<u>250.0</u>	<u>100.0</u>	<u>25.0</u>	<u>161.0</u>	<u>150.0</u>	<u>510.0</u>	
To Be Financed From:										
Capital Levy	<u>1,343.5</u>	<u>147.5</u>		<u>250.0</u>	<u>100.0</u>	<u>25.0</u>	<u>161.0</u>	<u>150.0</u>	<u>510.0</u>	

2021 - 2030 Capital Budget Justification

Tangible Capital Assets

Department: Community Services

Budget Reference #: 6-4.02

Division: Arenas - Arenas

Project Name & Description

New Arena and Aquatics Complex

Commitments Made

Council approved Report CSD15-021 to undertake the design phase for the replacement facility for a new arena/community centre. Council approved Report CSD16-028, included approval of the schematic design, proceeding with Phase II detailed design including the pool and continue to include LEED design practices. Council approved Report PLPD17-051 for the Site Plan Approval of the Arena and Aquatic Complex. Council approved Report CSD19-016 for the Arena and Aquatic Complex Location and Funding Opportunity.

Effects on Future Operating Budgets

A replacement facility for Northcrest Arena is recommended to contain a twin pad facility, team training centre, indoor track, multipurpose rooms, commercial space and leased office space built to a LEED Certified standard. A new twin pad facility will operate more efficiently on a square foot basis and will see a lower municipal cost investment than the existing Northcrest Arena due to economies of scale, energy efficiencies and new revenue potential. Council reviewed options for a competitive pool and determined to continue to include this as an option in the detailed design.

Project Detail, Justification & Reference Map

Capital resources for this project are essential in order to plan, develop and construct a replacement facility for Northcrest Arena. The project is planned for phased construction.

Year	Description	Value
2015	Feasibility Study	\$ 500,000
2016	Schematic Design and costing studies	\$1,500,000
2017	Commencement of detailed	\$1,000,000
2018	Completion of detailed design	
2019	Relocation of Site required - funding application unsuccessful	
2020	New Site options and alternate funding under consideration	

In 2021 the Schematic Design/costing studies at new site will occur funded by budget remaining from previous years of \$500,000.

Future Budgets include:

2022	Detailed design / Tendering	\$20,000,000
2023	Construction Start Phase 1	\$20,000,000
2024	Construction completion and commissioning	\$11,500,000
2027	Phase 2 - Pool	\$18,000,000

This project is eligible for development charges that address community growth needs; however, the balance of funding must be secured through other sources, including funding programs and sponsorships.

Accessibility Considerations

Facility will meet the 2015 AODA Built Environment requirements.

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045					
				2021	2022	2023	2024	2025							
Department	Community Services														
Division	Arenas - Arenas														
Project Description	New Arena Facility														
Project #	6-4.02														
Expenditures															
Contractual Services	73,000.0	3,500.0									20,000.0	20,000.0	11,500.0		18,000.0
Direct Revenue															
Recoveries	300.0	300.0													
Community Sponsors	2,000.0												1,000.0		1,000.0
Total Direct Revenue	<u>2,300.0</u>	<u>300.0</u>				<u>1,000.0</u>		<u>1,000.0</u>							
Net Requirements	<u>70,700.0</u>	<u>3,200.0</u>		<u>20,000.0</u>	<u>20,000.0</u>	<u>10,500.0</u>		<u>17,000.0</u>							
To Be Financed From:															
Debentures															
Deb Rev-Tax Supported	22,019.0			8,321.0	8,570.0	3,428.0		1,700.0							
Deb Rev - User Charges	2,500.0					2,500.0									
DEBT DC-Recreation	42,981.0			11,679.0	11,430.0	4,572.0		15,300.0							
Total Debenture Financing	<u>67,500.0</u>			<u>20,000.0</u>	<u>20,000.0</u>	<u>10,500.0</u>		<u>17,000.0</u>							
Development Charges															
DC - Recreation	1,751.4	1,751.4													
Total Development Charges	<u>1,751.4</u>	<u>1,751.4</u>													
Reserves															
Capital Levy Reserve	556.7	556.7													
Total Reserves	<u>556.7</u>	<u>556.7</u>													
Capital Levy	<u>891.9</u>	<u>891.9</u>													

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Community Services**Budget Reference #:** 6-4.03**Division:** Arenas - Arenas**Project Name & Description**

Morrow Park Redevelopment Project

Phase 1: Conceptual and detailed design of four exhibition/storage barns and new track/sand ring. Construction to follow.

Phase 2: Implementation of Phase 2 of Morrow Park Master Plan including: relocation of perimeter fence; construction of perimeter berms, trail network, extensive tree planting; and commemorative installation to honour agricultural heritage.

Commitments Made

In 2017 a new license agreement was executed with the Agricultural Society. The review and staged implementation of the Morrow Park Master Plan can begin following Council approval and the review of Morrow Park as a site option for the Major Sport and Event Centre project.

Effects on Future Operating Budgets

Completion of this project will lead to more facilities on site for the City to maintain, but it will also reduce or potentially eliminate operating and capital commitments in support of the annual exhibition. It will also resolve storage needs for some Memorial Centre performance assets such as a portable stage.

Project Detail, Justification & Reference Map

Phase 1: Conceptual and detailed design of four exhibition/storage barns and a new track/sand ring. (\$0.5 million - 2022)

Construction of one new exhibition/storage barn for City storage, society headquarters, public washrooms and exhibition space. (\$1 million - 2023) Construction of a new track/sand ring. (\$1 million - 2024)

Two new barns scheduled to replace the existing "horse" barns (\$3 million - 2025). A new exhibition/storage barn at a date TBD as need determines and budgets permit. (\$1 million - 2026)

Phase 2: Implementation of Phase 2 of the Morrow Park Plan including relocation of perimeter fencing; installation of interior parking; construction of a linear park, berms, trail network, tree planting and commemorative installation to honour agricultural heritage. (\$3 million - 2027)

Tangible Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Arenas - Arenas									
Project Description	Improvements to Morrow Park									
Project #	6-4.03									
Expenditures										
Contractual Services	10,180.0	680.0		500.0	1,000.0	1,000.0	3,000.0	4,000.0		
Net Requirements	<u>10,180.0</u>	<u>680.0</u>		<u>500.0</u>	<u>1,000.0</u>	<u>1,000.0</u>	<u>3,000.0</u>	<u>4,000.0</u>		
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	<u>2,500.0</u>			500.0	1,000.0	1,000.0				
Total Debenture Financing	<u>2,500.0</u>			<u>500.0</u>	<u>1,000.0</u>	<u>1,000.0</u>				
Reserves										
Capital Levy Reserve	<u>680.0</u>	<u>680.0</u>								
Total Reserves	<u>680.0</u>	<u>680.0</u>								
Capital Levy	<u>7,000.0</u>						<u>3,000.0</u>	<u>4,000.0</u>		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Community Services**Budget Reference #:** 6-4.04**Division:** Arenas - Arenas**Project Name & Description**

Evinrude Banquet Facilities Upgrade

Commitments Made**Effects on Future Operating Budgets**

Upgrades to the banquet facilities will improve and increase the functionality of the kitchen and banquet hall space, delivery access, banquet entrance area, with the goal of increased event bookings and revenues.

Project Detail, Justification & Reference Map

2019 Budget Approved

Phase 1 - Evinrude Banquet Hall and Kitchen Design Development Study and Preliminary Upgrades (Budget Approved in 2014 & 2019 but not yet spent) - \$125,000

2022 Budget Request

Phase 2 - Evinrude Banquet Hall and Kitchen Final Upgrades - \$500,000

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Arenas - Arenas									
Project Description	Evinrude Banquet Facilities Upgrade									
Project #	6-4.04									
Expenditures										
Contractual Services		625.0	125.0		500.0					
Net Requirements		<u>625.0</u>	<u>125.0</u>		<u>500.0</u>					
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		625.0	125.0		500.0					
Total Debenture Financing		<u>625.0</u>	<u>125.0</u>		<u>500.0</u>					

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Community Services

Budget Reference #: 6-4.05

Division: Arenas - Arenas

Project Name & Description

Facility Upgrade-Arena Division

Commitments Made

Effects on Future Operating Budgets

Performing regular upgrades will assist to maintain the quality and efficiency of arena facilities.

Project Detail, Justification & Reference Map

2022

1. Community Arena Event Tables and Chairs \$50,000

2025-2029

1. Facility Upgrades-Evinrude-Various \$835,000
2. Facility Upgrades-Kinsmen-Various \$705,000

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Arenas - Arenas									
Project Description	Facility Upgrade-Community Arenas									
Project #	6-4.05									
Expenditures										
Contractual Services		1,665.0	75.0		50.0			300.0	1,240.0	
Net Requirements		<u>1,665.0</u>	<u>75.0</u>		<u>50.0</u>			<u>300.0</u>	<u>1,240.0</u>	
To Be Financed From:										
Capital Levy		<u>1,665.0</u>	<u>75.0</u>		<u>50.0</u>			<u>300.0</u>	<u>1,240.0</u>	

2021 - 2030 Capital Budget Justification

Tangible Capital Assets

Department: Community Services**Budget Reference #:** 6-4.06**Division:** Arenas - Arenas**Climate Mitigation:** Yes**Climate Adaptation:** Yes**Project Name & Description**

Ice Resurfacers-All Arenas

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

A systematic approach to replace ice resurfacers on a rotating basis. This plan ensures reliable ice resurfacing is carried out to maintain good quality ice, good air quality in arenas, and ensure there are reliable back-up machines to avoid service disruptions. Staff are proposing the shared use of a machine for the 3-4 month period of operations at the Louis Street Park. The estimated life of an ice resurfacer is approximately 10 years for primary machines. The option to transition to electric machines in the future in 2022 and beyond is being explored as statistical information becomes available. Adopting electric equipment is relatively new in Canada and there are currently issues identified in the area of battery life and excessive repairs and maintenance costs that need to be resolved in order for an electric machine to be efficient and handle the high volume of work required in municipal facilities. The current price per electric machine is approximately double that of a natural gas machine.

UNIT	ARENA	DESCRIPTION	CURRENT YEAR OF MACHINE	REPLACEMENT YEAR	NOTES
1	EVINRUDE	ZAMBONI-MAIN	2019	2029	
2	EVINRUDE SPARE/NEW ARENA COMPLEX	ZAMBONI-BACKUP	2012	2024	Replace w/ Electric
3	KINSMEN	OLYMPIA-Backup	2011	2023	Trade in 2022
4	KINSMEN	ZAMBONI-Main	2018	2028	
5	PMC	ZAMBONI-BACKUP	2012	2025	Replace w/ Electric
6	PMC	ZAMBONI-MAIN	2019	2029	
7	LOUIS ST PARK	ZAMBONI-MAIN	2009	2022	Trade in 2022

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Arenas - Arenas									
Project Description	Ice Resurfacers-All Arenas									
Project #	6-4.06									
Expenditures										
Contractual Services		1,260.0			180.0	180.0	180.0	180.0	540.0	
Net Requirements		<u>1,260.0</u>			<u>180.0</u>	<u>180.0</u>	<u>180.0</u>	<u>180.0</u>	<u>540.0</u>	
To Be Financed From:										
Capital Levy		<u>1,260.0</u>			<u>180.0</u>	<u>180.0</u>	<u>180.0</u>	<u>180.0</u>	<u>540.0</u>	

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Community Services**Budget Reference #:** 6-4.07**Division:** Arenas - Arenas**Project Name & Description**

Equipment Replacement-Arena Division

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

A systematic approach to monitor the maintenance and replacement requirements of Fleet Equipment in the Arena Division. This equipment is used by the Memorial Centre and Community Arenas on a rotational basis as required for event set-up and regular maintenance operations of these facilities.

UNIT	LOCATION	TYPE OF EQUIPMENT	CURRENT YEAR OF MACHINE	REPLACEMENT YEAR
1	PMC	Lift Truck	2005	2023
2	PMC	Lift Truck	2008	2022
3	PMC	Telescopic Boom Lift	2019	2035
4	EV	Scissor Lift	2020	2035
5	EV	Half-Ton Pickup Truck	2019	2029

2021 Equipment Replacement Chart

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Arenas - Arenas									
Project Description	Equipment Replacement-Arena Division									
Project #	6-4.07									
Expenditures										
Contractual Services		135.0			40.0	60.0			35.0	
Net Requirements		<u>135.0</u>			<u>40.0</u>	<u>60.0</u>			<u>35.0</u>	
To Be Financed From:										
Capital Levy		<u>135.0</u>			<u>40.0</u>	<u>60.0</u>			<u>35.0</u>	

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Community Services Recreation																
Parks and Open Space Strategy	6-5.01	1,126.0	155.0	80.0	80.0						104.0		106.0		681.0	
Del Crary Park Upgrade	6-5.02	6,550.0	100.0								3,700.0	3,700.0	2,000.0	2,000.0	750.0	750.0
Beavermead Campground Park Implementation	6-5.03	1,996.0	800.0								500.0	500.0	80.0	80.0	616.0	616.0
Total		9,672.0	1,055.0	80.0	80.0						4,304.0	4,200.0	2,186.0	2,080.0	2,047.0	1,366.0

2021 - 2030 Capital Budget Justification Tangible Capital Assets

Department: Community Services

Budget Reference #: 6-5.01

Division: Recreation - Recreation

Project Name & Description

Parks and Open Space Strategy

Commitments Made

In 2018 and 2019 a comprehensive review of the City's parks and open space was undertaken, with the following key objectives:

1. Establish park planning, provision and design guidelines and standards – including a process for developing new parks (including City and developer responsibilities).
2. Evaluate Neighbourhood parks and identify high priority parks in need of rejuvenation.
3. Identify gaps in access to Neighbourhood parkland and provide strategies to begin to address the gaps.
4. Evaluate the large amount of City-owned (non-parkland) open space and recommend sites to be considered to officially become parkland.

On February 3, 2020 Council approved the recommendations of Report CSRS20-003, adopting the Assessment of Parks and Open Spaces Document and the Park Development Standards Document as planning tools to shape policies and influence priorities related to municipal parks and open space.

Effects on Future Operating Budgets

Ongoing maintenance and eventual replacement of facilities will be required.

Project Detail, Justification & Reference Map

The resources of this budget will support the long term recommendations of the Parks and Open Space Study, in line with the standards and priorities identified within the Parks and Open Spaces Document and the Park Development Standards Document.

In 2021, the focus will be on improving amenities in Dominion Park, Hamilton Park, and Glenn Pagett Park.

Accessibility Considerations

All projects completed within this budget will be in compliance with the AODA Guidelines.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Recreation - Recreation									
Project Description	Parks and Open Space Strategy									
Project #	6-5.01									
Expenditures										
Contractual Services		1,126.0	155.0	80.0	104.0	106.0	108.0	110.0	463.0	
Direct Revenue										
Donation		1,126.0	155.0	80.0	104.0	106.0	108.0	110.0	463.0	
Total Direct Revenue		1,126.0	155.0	80.0	104.0	106.0	108.0	110.0	463.0	

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Community Services**Budget Reference #:** 6-5.02**Division:** Recreation - Recreation**Project Name & Description**

Del Crary Park Upgrade

The resources identified in this project will finance the implementation of the recommendations of the Little Lake Master Plan.

Commitments Made

The Little Lake Master Plan was a comprehensive study of the waterfront, Otonabee River, and Little Lake from the bridge on Hunter Street to the bridge on Lansdowne Street. The study assessed current conditions, activity, uses and opportunities to develop a comprehensive plan for the Little Lake study area. It provided a guiding plan for the City of Peterborough for 20 years. Council officially received the plan as a result of Report CSD10-003, dated March 15, 2010.

Both the 2009 and 2014 Development Charges Studies identified the Marina and Del Crary Park Design Plan as a growth-related capital program.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

The Little Lake Master Plan (LLMP) recommended a number of priority projects for implementation, of which staff recommend the following initiatives :

- Del Crary Park Plan – Preliminary design of Del Crary Park, Anderson Stage, and Peterborough Marina in 2020-21.
- A Secondary plan, including detailed design in 2022
- Construction - Commencing September 2023 and concluding in June 2024, complete construction on the park, stage and marina building. Staff will seek funding from senior levels of government and explore corporate sponsorship opportunities.

The funds requested in 2020 were to support the Preliminary design of Del Crary Park, Anderson Stage, and Peterborough Marina, including additional space within the Marina building suitable for a commercial lease opportunity. The project was delayed in 2020 due to the pandemic. Therefore no allocation is requested for 2021.

Accessibility Considerations

All facilities will be constructed to meet the AODA guidelines.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Recreation - Recreation									
Project Description	Del Crary Park Upgrade									
Project #	6-5.02									
Expenditures										
Contractual Services	6,550.0	100.0		3,700.0	2,000.0	250.0	250.0	250.0		
Net Requirements	<u>6,550.0</u>	<u>100.0</u>		<u>3,700.0</u>	<u>2,000.0</u>	<u>250.0</u>	<u>250.0</u>	<u>250.0</u>		
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported	4,140.0			2,740.0	1,400.0					
DEBT DC-Parks	1,560.0			960.0	600.0					
Total Debenture Financing	<u>5,700.0</u>			<u>3,700.0</u>	<u>2,000.0</u>					
Development Charges										
DC Parks	100.0	100.0								
Total Development Charges	<u>100.0</u>	<u>100.0</u>								
Capital Levy	<u>750.0</u>					<u>250.0</u>	<u>250.0</u>	<u>250.0</u>		

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets****Department:** Community Services**Budget Reference #:** 6-5.03**Division:** Recreation - Recreation**Project Name & Description**

Beavermead Campground Park Implementation

Commitments Made

The Little Lake Master Plan (LLMP), completed in 2010, recommended a user and cost benefit analysis of the functions and lands used for camping at Beavermead Park. That analysis was undertaken in 2011. Council received the staff report CSD12 - 001 on the cost benefit analysis.

A need was identified to upgrade facilities at the park to become more competitive in the camping business. Council has entered into a five-year agreement (with the option to renew for an additional five years) with Otonabee Region Conservation Authority to operate the campground. A condition of that agreement is that certain improvements to land and amenities at the campground are provided by the City, to ensure the physical space at the campground is conducive to a viable campground operation.

Effects on Future Operating Budgets

Ongoing maintenance and eventual replacement of facilities will be required.

Project Detail, Justification & Reference Map

The requested \$500,000 allocation in 2021 is to support the completion of the entry pavilion which includes detailed design, tendering, and construction. Annual allocations beyond 2021 are for projects such as installing a chain link fence along the eastern edge of the campground, screen plantings for privacy between the campsites, removal of buck thorn from the creek's edge and replacing with native species to enhance biodiversity to the water's edge and stabilize erosion prone banks, repair and maintenance of the interior roadway.

Accessibility Considerations

All works will be completed in compliance with the AODA guidelines.

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Recreation - Recreation									
Project Description	Beavermead Campground Park Implementation									
Project #	6-5.03									
Expenditures										
Contractual Services		1,996.0	800.0		500.0	80.0	82.0	84.0	450.0	
Net Requirements		<u>1,996.0</u>	<u>800.0</u>		<u>500.0</u>	<u>80.0</u>	<u>82.0</u>	<u>84.0</u>	<u>450.0</u>	
To Be Financed From:										
Debentures										
Deb Rev-Tax Supported		265.0	265.0							
DEBT DC-Parks		450.0			450.0					
Total Debenture Financing		<u>715.0</u>	<u>265.0</u>		<u>450.0</u>					
Development Charges										
DC Parks		443.0	443.0							
Total Development Charges		<u>443.0</u>	<u>443.0</u>							
Reserves										
Beavermead Reserve		50.0	25.0		25.0					
Total Reserves		<u>50.0</u>	<u>25.0</u>		<u>25.0</u>					
Capital Levy		<u>788.0</u>	<u>67.0</u>		<u>25.0</u>	<u>80.0</u>	<u>82.0</u>	<u>84.0</u>	<u>450.0</u>	

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Community Services Recreation																
Sports Tourism Sponsorship	6-5.04	575.0	100.0	75.0		75.0				75.0	75.0	75.0	75.0	75.0	250.0	250.0
Total		575.0	100.0	75.0		75.0				75.0	75.0	75.0	75.0	75.0	250.0	250.0

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Community Services**Budget Reference #:** 6-5.04**Division:** Recreation - Recreation**Project Name & Description**

Sport Tourism Sponsorship

Commitments Made

The City has made considerable investment in new state of the art sport facilities over the past five years, including new artificial Turf fields at Fleming College, Thomas A Stewart & Holy Cross Secondary Schools, official size baseball diamond, and sport field with lighting on the east bank of Trent University lands. These investments came with the intention of attracting major sport tourism events, which would generate a positive economic sport tourism benefit to the community.

Effects on Future Operating Budgets

Provincial, national, and international sport events can generate approximately \$3-6 million in sport tourism revenue to the community per event.

Project Detail, Justification & Reference Map

This budget will support expenses up to \$75,000 per year related to activities to attract and host major sport tourism events, organized and hosted by third parties. The City will work with Peterborough and Kawartha Economic Development to identify and secure sport tourism events.

Accessibility Considerations

Events supported through the Sport Tourism Sponsorship capital budget will be expected to meet AODA standards relative to the type of event.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Recreation - Recreation									
Project Description	Sports Tourism Sponsorship									
Project #	6-5.04									
Expenditures										
Contractual Services		575.0	100.0	75.0	75.0	75.0	75.0	75.0	100.0	
Net Requirements		<u>575.0</u>	<u>100.0</u>	<u>75.0</u>	<u>75.0</u>	<u>75.0</u>	<u>75.0</u>	<u>75.0</u>	<u>100.0</u>	
To Be Financed From:										
Reserves										
MAT Reserve		500.0	25.0	75.0	75.0	75.0	75.0	75.0	100.0	
Total Reserves		<u>500.0</u>	<u>25.0</u>	<u>75.0</u>	<u>75.0</u>	<u>75.0</u>	<u>75.0</u>	<u>75.0</u>	<u>100.0</u>	
Capital Levy		<u>75.0</u>	<u>75.0</u>							

City of Peterborough
Other Capital Budget Summary
2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Community Services																
Arts Culture and Heritage																
Downtown Heritage Conservation District Study	6-6.01	100.0		100.0		100.0	100.0									
Public Art	6-6.02	2,266.8	446.8	100.0	20.0	80.0	80.0				100.0	100.0	100.0	100.0	1,520.0	1,520.0
Municipal Cultural Plan	6-6.03	2,313.8	343.8	80.0		80.0	80.0				230.0	230.0	100.0	100.0	1,560.0	1,560.0
Places of Faith Adaptive Reuse Study	6-6.04	120.0									120.0	120.0				
Heritage Neighbourhood Study	6-6.05	170.0									120.0	120.0	50.0	50.0		
Total		4,970.6	790.6	280.0	20.0	260.0	260.0				570.0	570.0	250.0	250.0	3,080.0	3,080.0

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Community Services**Budget Reference #:** 6-6.01**Division:** Culture & Heritage Div Mgmt - Arts Culture and Heritage**Climate Mitigation:** Yes**Project Name & Description**

Downtown Heritage Conservation District Study
Funding for the completion of the first phase of a heritage conservation District in the commercial core area.

Commitments Made**Effects on Future Operating Budgets****Project Detail, Justification & Reference Map**

The Central Area Master Plan, the Municipal Cultural Plan and the draft Official Plan all strongly promote the protection of properties and buildings of historical or architectural importance in the downtown. The Ontario Heritage Act allows municipalities to protect groups of historic properties through the creation of Heritage Conservation Districts (HCD). While the City has designated individual buildings in the core area, the creation of an HCD will provide clear guidance on a broad scale for appropriate development and intensification while protecting valuable heritage resources. HCDs are created in two phases:

- 1- A study of an identified area including: historic research, architecture and streetscape design and the identification of proposed district boundaries.
- 2- The creation of a District Plan to manage the area by developing guidelines for administering the protection of heritage features. Creating the plan includes extensive consultation with stakeholders and when complete forms the basis of the By-law protecting the district.

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Culture & Heritage Div Mgmt - Arts Culture and Heritage									
Project Description	Downtown Heritage Conservation District Study									
Project #	6-6.01									
Expenditures										
Contractual Services		100.0		100.0						
Net Requirements		<u>100.0</u>		<u>100.0</u>						
To Be Financed From:										
Capital Levy		<u>100.0</u>		<u>100.0</u>						

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: Community Services

Budget Reference #: 6-6.02

Division: Culture & Heritage Div Mgmt - Arts Culture and Heritage

Project Name & Description

Public Art

Many Canadian municipalities incorporate art into the infrastructure of their communities through an annual contribution based on a percentage of the municipality's capital investment.

Art can define a city. A city's character, history, aspirations and challenges are expressed and reflected by its artistic engagement. Public Art adds to the identity and quality of the civic landscape; enriches our experience of public spaces; pays tribute to particular sites, individuals and events; builds civic pride; fosters community and enhances the city's cultural heritage.

Commitments Made

Through Report CSACH 09-007, on April 6, 2009 council approved the recommendation to provide an annual capital levy contribution of 1% of the City's annual capital levy to fund Public Art.

Effects on Future Operating Budgets

Percentage of annual capital levy.

Project Detail, Justification & Reference Map

The Public Art Policy identifies five main areas: Public Art Capital Projects; Temporary Projects; Public Art Development and Arts Sector Advancement Program; Community-Based Projects; and Special Projects.

Given the recent focus has been major capital projects, the pandemic crisis and current economic climate, public art initiatives undertaken in 2021 will reflect less complex scheduling considerations such as collaborations across the corporation and /or within the community. Projects will be designed not only to enhance our civic spaces, but to provide opportunities to address current issues, support municipal services and programs, and promote economic development.

Accessibility Considerations

The location of each piece is selected for its visibility and accessibility.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Community Services										
Division	Culture & Heritage Div Mgmt - Arts Culture and Heritage										
Project Description	Public Art										
Project #	6-6.02										
Expenditures											
Contractual Services		2,266.8	446.8	100.0	100.0	100.0	100.0	100.0	440.0	880.0	
Total Direct Revenue		<u>2,266.8</u>	<u>446.8</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>440.0</u>	<u>880.0</u>	
Direct Revenue											
Donation		<u>80.0</u>	<u>60.0</u>	<u>20.0</u>							
Total Direct Revenue		<u>80.0</u>	<u>60.0</u>	<u>20.0</u>							
Net Requirements		<u>2,186.8</u>	<u>386.8</u>	<u>80.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>440.0</u>	<u>880.0</u>	
To Be Financed From:											
Capital Levy		<u>2,186.8</u>	<u>386.8</u>	<u>80.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>100.0</u>	<u>440.0</u>	<u>880.0</u>	

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Community Services**Budget Reference #:** 6-6.03**Division:** Culture & Heritage Div Mgmt - Arts Culture and Heritage**Project Name & Description**

Implementation of the Municipal Cultural Plan(MCP)

Municipal Cultural Plan Refresh will update the existing plan and provide a framework for future support of arts, culture and heritage. It will review completed actions and identify new actions and initiatives for the division for the next five years. Culture and Heritage is changing rapidly so staff are recommending a refresh and a look forward for the next five years.

Commitments Made

The commitments made include support to EC3 to complete targeted goals in 2021 and to support project start up funding for municipal cultural plan initiatives

Effects on Future Operating Budgets

Staff anticipates a continued contribution to EC3 and new initiatives that will impact the future operating budgets to maintain the City's commitment to Arts, Culture and Heritage.

Project Detail, Justification & Reference Map

The 2021 capital budget includes \$80,000 for City staff and the community to complete Municipal Cultural Plan objectives by providing funding to EC3, the arm's length organization that coordinates, communicates, and advocates for Peterborough arts and culture organizations and project start up funding for new initiatives. In 2022 the MCP will have reached its 10 year life span so staff will work to establish another plan for next 5 years.

Accessibility Considerations

Municipal Cultural Plan activities will be AODA compliant.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Community Services										
Division	Culture & Heritage Div Mgmt - Arts Culture and Heritage										
Project Description	Municipal Cultural Plan										
Project #	6-6.03										
Expenditures											
Contractual Services		2,313.8	343.8	80.0	230.0	100.0	10.0	100.0	500.0	950.0	
Net Requirements		<u>2,313.8</u>	<u>343.8</u>	<u>80.0</u>	<u>230.0</u>	<u>100.0</u>	<u>10.0</u>	<u>100.0</u>	<u>500.0</u>	<u>950.0</u>	
To Be Financed From:											
Capital Levy		<u>2,313.8</u>	<u>343.8</u>	<u>80.0</u>	<u>230.0</u>	<u>100.0</u>	<u>10.0</u>	<u>100.0</u>	<u>500.0</u>	<u>950.0</u>	

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: Community Services**Budget Reference #:** 6-6.04**Division:** Culture & Heritage Div Mgmt - Arts Culture and Heritage**Climate Mitigation:** Yes**Project Name & Description****Place of Faith Adaptive Reuse Study**

Many churches are historically significant to the community and best practice would see the churches adapted to new uses like housing, commercial or institutional space, or for community use, when no longer required as a place of faith.

Commitments Made**Effects on Future Operating Budgets**

Depending on the recommendations provided by the study, Council may wish to create financial support programs for the reuse of heritage churches.

Project Detail, Justification & Reference Map

A United Church of Canada study has found that dwindling attendance in five of its churches in Peterborough will lead to their closure in 3-5 years. Other denominations are seeing the same trend. Since 2015 St. Barnabas Anglican, St. Andrews and Knox United, and St. Paul's Presbyterian have closed. The pace of closure for historic churches is accelerating. These churches represent irreplaceable community heritage and, as local landmarks, define neighbourhood character. They also represent profitable redevelopment opportunities through adaptive reuse of tens of thousands of square feet of attractive real estate. Identifying opportunities to intensify built up areas of the city while conserving heritage resources has been identified as a major focus of the Official Plan review.

To ensure that each church is reused to its greatest capacity, an adaptive reuse study for places of faith is proposed. Working with churches that voluntarily participate, the study will review the viability of each congregation and inventory each church's space resources, capacity to be made accessible, land-use planning potential, etc. It will analyze current local business growth trends and corporate relocation prospects for Peterborough, affordable and market rate housing needs and community organization space needs. The study will then propose a best fit for each church, matching the property's assets with community needs including housing, commercial or professional space and community use. The study will be a blueprint for creating partnerships between congregations, community groups and the development sector to successfully re-purpose the city's finest landmarks.

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Culture & Heritage Div Mgmt - Arts Culture and Heritage									
Project Description	Places of Faith Adaptive Reuse Study									
Project #	6-6.04									
Expenditures										
Contractual Services		120.0			120.0					
Net Requirements		<u>120.0</u>			<u>120.0</u>					
To Be Financed From:										
Capital Levy		<u>120.0</u>			<u>120.0</u>					

2021 - 2030 Capital Budget Justification

Other Capital Assets

Department: Community Services

Budget Reference #: 6-6.05

Division: Culture & Heritage Div Mgmt - Arts Culture and Heritage

Climate Mitigation: Yes

Project Name & Description

Neighbourhood Heritage Study:

A Neighbourhood Heritage Study (NHS) will complete Initiative 5.1.1 of the City's Municipal Cultural Plan to "Identify and celebrate the distinct neighbourhoods of the City". A NHS will inventory, characterize, and map the City's heritage resources. Where typical heritage designation policies focus on individual buildings' design and historical significance, this approach looks at the relationships between individual properties and their broader urban context. These studies align with requirements in the Heritage Act and Planning Act, but also use "historic context statements" for evaluating historic resources. For example, some heritage resources have status as landmarks, others contribute to neighbourhood character, support cultural activities, embody local stories or hold meaning for local residents. The study prioritizes neighbourhoods for detailed conservation planning and recommends the best mechanism for preservation in each case.

Commitments Made

Effects on Future Operating Budgets

With a completed inventory of specific heritage neighbourhoods and landscapes, staff will make capital requests for appropriate conservation programs, on a regular basis, as funding permits.

Project Detail, Justification & Reference Map

Peterborough is a city with many distinct neighbourhoods and rich historic areas worthy of preservation. An emerging best practice in North America is the creation of Neighbourhood Heritage Studies in which the municipality identifies unique neighbourhoods and catalogs their significant cultural values. This allows staff to prioritize neighbourhoods for further study and to choose the most efficient and cost effective tools, such as heritage conservation districts, heritage landscape designation or heritage zoning, for protecting heritage resources.

The Neighbourhood Heritage Study will include City wide historical research to identify distinct neighbourhoods, development of a methodology unique to Peterborough and the completion of a three neighbourhood pilot project. This will be followed by a review and revision of the methodology and completion of studies on the remaining neighbourhoods. The study will include extensive research, mapping, community consultation, and analysis. In order to efficiently determine how to proceed with future heritage planning in Peterborough, staff is recommending the completion of a Neighbourhood Heritage Study.

\$120,000 is being requested in 2021 for a Neighbourhood Heritage Study.

Other Capital Assets
Ten Year Capital Budget Estimates
2021-2030 & Subsequent Years
(\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Culture & Heritage Div Mgmt - Arts Culture and Heritage									
Project Description	Heritage Neighbourhood Study									
Project #	6-6.05									
Expenditures										
Contractual Services		170.0			120.0	50.0				
Net Requirements		<u>170.0</u>			<u>120.0</u>	<u>50.0</u>				
To Be Financed From:										
Capital Levy		<u>170.0</u>								

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After	
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net
Community Services Social Services																
Incentives For Affordable Housing	6-7.01	11,986.0	7,084.0	1,173.0	833.0	340.0		105.6		234.4	1,208.0	340.0	1,243.0	340.0	1,278.0	340.0
Housing - Capital Repairs	6-7.02	5,675.0	975.0								150.0	67.4	150.0	67.4	4,400.0	1,979.9
Building Condition Assessments (BCA)	6-7.03	1,475.0	475.0												1,000.0	450.0
Total		19,136.0	8,534.0	1,173.0	833.0	340.0		105.6		234.4	1,358.0	407.4	1,393.0	407.4	6,678.0	2,769.9

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Community Services**Budget Reference #:** 6-7.01**Division:** Social Housing - Social Services**Project Name & Description**

Incentives for Affordable Housing

Commitments Made

In September of 2011, Council adopted the Affordable Housing Community Improvement Plan (Report PLHD11-062). This initiative provided the City with the authority to grant financial incentives in support of Affordable Housing according to guidelines developed for a number of qualified programs.

In July 2020, Council approved the Review of the 10-year Housing and Homelessness Plan, including target to achieve 2,680 new affordable housing units, 580 supportive housing units as well as 796 affordable homeownership units by 2029.

Incentives provided under the Community Improvement Plan for Affordable Housing are combined with funding and financing programs from senior levels of government to help meet these targets.

Effects on Future Operating Budgets**Project Detail, Justification & Reference Map**

This capital project continues the Peterborough tradition of stimulating the production of affordable housing through a program of financial incentives.

The order of magnitude of annual cost of the investment in affordable housing is \$1,173,000. Of this total, it is estimated that the contribution from Development Charges will account for \$105,570. Other funding sources include an annual draw of \$150,000 from the Municipal Partnership Fund from the Housing Division's operating budget, approximately \$700,000 through tax relief and development charge exemption programs, and \$100,000 from the Casino Gaming Reserve.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Social Housing - Social Services									
Project Description	Incentives For Affordable Housing									
Project #	6-7.01									
Expenditures										
Contractual Services		11,986.0	7,084.0	1,173.0	1,208.0	1,243.0	1,278.0			
Direct Revenue										
Recoveries		3,056.0	1,414.0	358.0	393.0	428.0	463.0			
Miscellaneous		295.0	295.0							
Transfer from Operations		5,035.0	3,135.0	475.0	475.0	475.0	475.0			
Total Direct Revenue		<u>8,386.0</u>	<u>4,844.0</u>	<u>833.0</u>	<u>868.0</u>	<u>903.0</u>	<u>938.0</u>			
Net Requirements		<u>3,600.0</u>	<u>2,240.0</u>	<u>340.0</u>	<u>340.0</u>	<u>340.0</u>	<u>340.0</u>			
To Be Financed From:										
Development Charges										
DC - Afford. Housing		993.6	552.4	105.6	108.7	111.9	115.0			
Total Development Charges		<u>993.6</u>	<u>552.4</u>	<u>105.6</u>	<u>108.7</u>	<u>111.9</u>	<u>115.0</u>			
Reserves										
Casino Gaming Reserve		200.0	200.0							
Soc Services - General Assistance Reserve		100.0	100.0							
Housing - DOOR Funding Reserve		100.0		100.0						
Affordable Housing Partnership Reserve		1,406.4	887.6	134.4	131.3	128.1	125.0			
Total Reserves		<u>1,806.4</u>	<u>1,187.6</u>	<u>234.4</u>	<u>131.3</u>	<u>128.1</u>	<u>125.0</u>			
Capital Levy		<u>800.0</u>	<u>500.0</u>		<u>100.0</u>	<u>100.0</u>	<u>100.0</u>			

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Community Services**Budget Reference #:** 6-7.02**Division:** Social Housing - Social Services**Project Name & Description**

Housing - Capital Repairs

Commitments Made

None.

Effects on Future Operating Budgets

This investment in upgrading and maintaining the existing aging portfolio will help provide safe reliable housing, reduce operating costs, reduce waiting lists, and enable the City to maintain the portfolio to meet the Province's required service level standard.

Project Detail, Justification & Reference Map

The \$150,000 per year is to be utilized to assist social housing providers with necessary capital repairs and upgrades that are considered a priority, and beyond the ability of the housing provider to fund by themselves. This funding, when expended, will be paired with available incentives, funding from federal and provincial levels of government, or as cost sharing opportunities whenever possible. These projects can be prioritized based on capital asset management data, updated through Building Condition Audits. This capital reserve will be funded from City and County contributions based on the weighted assessment sharing ratios and allowed to accumulate until required.

Municipal investment is key where there is a disconnect between social housing repair needs, including unexpected or emergency repairs, and available funding programs from higher levels of government. This capital project provides a funding stream for such circumstances. Under the National Housing Strategy, the federal government has allocated capital funds for social housing provider regeneration. The Housing Division assists providers to pursue available funds to supplement/replace municipal investment.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Social Housing - Social Services									
Project Description	Housing - Capital Repairs									
Project #	6-7.02									
Expenditures										
Contractual Services		5,675.0	975.0		150.0	150.0	150.0	175.0	900.0	3,175.0
Direct Revenue										
Other Mun-grants & fees		3,113.5	528.1		82.7	82.7	82.7	96.3	495.0	1,746.3
Total Direct Revenue		<u>3,113.5</u>	<u>528.1</u>		<u>82.7</u>	<u>82.7</u>	<u>82.7</u>	<u>96.3</u>	<u>495.0</u>	<u>1,746.3</u>
Net Requirements		<u>2,561.5</u>	<u>447.0</u>		<u>67.4</u>	<u>67.4</u>	<u>67.4</u>	<u>78.8</u>	<u>405.0</u>	<u>1,428.8</u>
To Be Financed From:										
Reserves										
Housing Reserve		114.1	114.1							
Total Reserves		<u>114.1</u>	<u>114.1</u>							
Capital Levy		<u>2,447.4</u>	<u>332.9</u>		<u>67.4</u>	<u>67.4</u>	<u>67.4</u>	<u>78.8</u>	<u>405.0</u>	<u>1,428.8</u>

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Community Services**Budget Reference #:** 6-7.03**Division:** Social Housing - Social Services**Project Name & Description**

Building Condition Assessments (BCA)

Commitments Made

None.

Effects on Future Operating Budgets

Asset management in the social housing portfolio can be a key driver of operating costs - strategic asset management reduces budget pressures that arise when maintenance is deferred or overlooked.

The Housing Division formulates strategies about required repairs based on expert opinion, prioritized needs, and where necessary, stages funding to ensure capital needs are addressed.

Up to date BCAs are necessary for proactive property management decisions, as well as bulk Requests for Tenders that, when managed by City staff, have historically provided significant savings in operating costs.

Project Detail, Justification & Reference Map

Portfolio wide Building Condition Assessments (BCAs) will:

- Update existing assessments of the social housing portfolio in the City and County of Peterborough.
- Identify and target capital repair needs for another 25 to 30-year time period.
- Provide the foundation for a strategic asset management plan for both the City and the housing providers through the introduction of an interactive database.

A BCAs should be undertaken every three to five years by qualified professionals. The last BCAs were to be completed in 2020. Strategic asset management depends on current information and responsive information management for reporting and monitoring.

BCAs, in conjunction with the City's asset management strategy, will significantly improve monitoring of social housing providers' capital reserves, as well as identify capital repair needs and provide capacity to pay.

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Community Services									
Division	Social Housing - Social Services									
Project Description	Building Condition Assessments (BCA)									
Project #	6-7.03									
Expenditures										
Contractual Services		1,475.0	475.0					250.0	250.0	500.0
Direct Revenue										
Other Mun-grants & fees		610.4	60.4					137.5	137.5	275.0
Recoveries		112.5	112.5							
Total Direct Revenue		<u>722.9</u>	<u>172.9</u>					<u>137.5</u>	<u>137.5</u>	<u>275.0</u>
Net Requirements		<u>752.1</u>	<u>302.1</u>					<u>112.5</u>	<u>112.5</u>	<u>225.0</u>
To Be Financed From:										
Reserves										
Housing Reserve		<u>302.1</u>	<u>302.1</u>							
Total Reserves		<u>302.1</u>	<u>302.1</u>							
Capital Levy		<u>450.0</u>						<u>112.5</u>	<u>112.5</u>	<u>225.0</u>

City of Peterborough

Tangible Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Police Services Peterborough Police Service																	
Various Police Capital Projects 2021	8-1.01	1,543.2		1,543.2		1,543.2	1,500.0			43.2							
Total		1,543.2		1,543.2		1,543.2	1,500.0			43.2							

**2021 - 2030 Capital Budget Justification
Tangible Capital Assets**

Department: Police Services

Budget Reference #: 8-1.01

Division: Police Board - Peterborough Police Service

Project Name & Description

Project Detail, Justification & Reference Map

Commitments Made

2021 Capital Projects

\$597,900 Vehicle Replacement

\$839,413 IT System and Security

\$105,900 Other Equipment

Effects on Future Operating Budgets

\$1,543,213 Total

Tangible Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project	Approved	REQUESTED					2026 to	2031 to
		Total	Pre-2021	2021	2022	2023	2024	2025	2030	2045
Department	Police Services									
Division	Police Board - Peterborough Police Service									
Project Description	Various Police Capital Projects 2021									
Project #	8-1.01									
Expenditures										
Contractual Services		1,543.2		1,543.2						
Net Requirements		<u>1,543.2</u>		<u>1,543.2</u>						
To Be Financed From:										
Reserves										
Tsf frm Police Services Reserve		43.2		43.2						
Total Reserves		<u>43.2</u>		<u>43.2</u>						
Capital Levy		<u>1,500.0</u>		<u>1,500.0</u>						

City of Peterborough

Other Capital Budget Summary

2021-2030 & Subsequent Years

Project Description	Ref	Project Total	Approved Pre-2021	2021							2022		2023		2024 & After		
				Total Costs	Rev	Net Cost	Cap Levy	Dev Chg	Deb	Other	Total	Net	Total	Net	Total	Net	
Police Services Peterborough Police Service																	
Police Comprehensive Staffing Study	8-1.02	100.0		100.0		100.0		50.0		50.0							
Police Service Strategic Plan	8-1.03	672.5	177.5	27.5		27.5		13.8		13.8	27.5	27.5			440.0	440.0	
Total		772.5	177.5	127.5		127.5		63.8		63.8	27.5	27.5			440.0	440.0	

**2021 - 2030 Capital Budget Justification
Other Capital Assets**

Department: Police Services

Budget Reference #: 8-1.02

Division: Police Board - Peterborough Police Service

Project Name & Description

Comprehensive Staffing Study

Commitments Made

Effects on Future Operating Budgets

Project Detail, Justification & Reference Map

Police Staffing Study - \$100,000

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045
				2021	2022	2023	2024	2025		
Department	Police Services									
Division	Police Board - Peterborough Police Service									
Project Description	Police Comprehensive Staffing Study									
Project #	8-1.02									
Expenditures										
Contractual Services	100.0			100.0						
Net Requirements				100.0						
To Be Financed From:										
Development Charges										
DC - Police	50.0			50.0						
Total Development Charges				50.0						
Reserves										
Tsf frm Police Services Reserve	50.0			50.0						
Total Reserves				50.0						

**2021 - 2030 Capital Budget Justification
Other Capital Assets****Department:** Police Services**Budget Reference #:** 8-1.03**Division:** Police Board - Peterborough Police Service**Project Name & Description**

Police Service Strategic Plan

Commitments Made

A Police Board's mandate is legislated by the Police Services Act and can be summarized as being responsible for the provision of adequate and effective police services in municipalities.

The Strategic Plan is mandated by Section 30 of the Adequacy and Effectiveness Regulation (O.Reg. 3/99) of the current Police Services Act. The new Comprehensive Ontario Police Services Act will be in force in the near future and will require the Board to prepare a new Strategic Plan every four years.

Effects on Future Operating Budgets

The Police Services Board operating budget includes an annual contribution of \$13,750 to the Strategic Plan Reserve to fund a Strategic Plan every four years. An additional \$13,750 is funded from Development Charges for a total contribution of \$27,500 annually.

Project Detail, Justification & Reference Map

Funds in 2023 will be used for the following initiatives:

- Police Strategic Plan, 2024 - 2027: \$110,000

Other Capital Assets
Ten Year Capital Budget Estimates
 2021-2030 & Subsequent Years
 (\$000)

		Project Total	Approved Pre-2021	REQUESTED					2026 to 2030	2031 to 2045	
				2021	2022	2023	2024	2025			
Department	Police Services										
Division	Police Board - Peterborough Police Service										
Project Description	Police Service Strategic Plan										
Project #	8-1.03										
Expenditures											
Contractual Services		672.5	177.5	27.5	27.5				110.0	330.0	
Net Requirements		<u>672.5</u>	<u>177.5</u>	<u>27.5</u>	<u>27.5</u>				<u>110.0</u>	<u>330.0</u>	
To Be Financed From:											
Development Charges											
DC - Police		<u>297.5</u>	<u>50.0</u>	<u>13.8</u>	<u>13.8</u>				<u>55.0</u>	<u>165.0</u>	
Total Development Charges		<u>297.5</u>	<u>50.0</u>	<u>13.8</u>	<u>13.8</u>				<u>55.0</u>	<u>165.0</u>	
Reserves											
Tsf frm Police Business Plan Reserve		<u>286.3</u>	<u>38.8</u>	<u>13.8</u>	<u>13.8</u>				<u>55.0</u>	<u>165.0</u>	
Total Reserves		<u>286.3</u>	<u>38.8</u>	<u>13.8</u>	<u>13.8</u>				<u>55.0</u>	<u>165.0</u>	
Capital Levy		<u>88.8</u>	<u>88.8</u>								