



CITY OF STRATFORD

DRAFT 2024 BUDGET

CAPITAL PLAN

2024 - 2033

**CITY OF STRATFORD
2024 CAPITAL BUDGET
2025 -2033 CAPITAL FORECAST**

Department	Division	2024	10-Year Total Project Costs	Total Funding Required	Annual Shortfall based on 2024 proposed
Corporate	Parking	\$2,002,000	\$2,944,250	\$2,944,250	\$11,682
	Information Technology	\$504,000	\$4,304,000	\$4,304,000	\$150,400
Total Corporate Services		\$2,506,000	\$7,248,250	\$7,248,250	\$162,082
Fire	Fire	\$60,000	\$1,806,750	\$1,806,750	not material
	Airport		\$1,600,000	\$1,600,000	\$45,000
Total Fire/Airport		\$60,000	\$3,406,750	\$3,406,750	\$45,000
Community	Parks and Forestry	\$111,340	\$1,951,340	\$1,951,340	not material
	Cemetery	\$28,500	\$658,500	\$658,500	not material
	Facilities - Recreation	\$2,745,000	\$22,748,000	\$22,748,000	not material
	Facilities - Other	\$840,000	\$12,044,500	\$12,044,500	not material
	Transit	\$2,813,340	\$15,538,340	\$15,538,340	100% provincial
Total Community Services		\$6,538,180	\$52,940,680	\$52,940,680	
Infrastructure	Linear	\$17,125,000	\$128,528,000	\$128,528,000	\$24,701,376
Services (IS)	Roads & Traffic	\$4,390,000	\$26,640,000	\$26,640,000	included above
(Levy)	Storm	\$2,350,000	\$9,150,000	\$9,150,000	\$521,876
	Landfill	\$200,000	\$5,820,000	\$5,820,000	full closure not incl
	Fleet	\$1,565,000	\$17,447,500	\$17,447,500	\$1,119,830
	Misc (PW Facility)	\$450,000	\$50,750,000	\$50,750,000	\$4,405,000
Total IS Levy-based		\$26,080,000	\$238,335,500	\$238,335,500	\$30,748,082
Perth Stratford Housing Corp	Social Housing	\$7,307,500	\$20,157,500	\$20,157,500	shared service
Stratford Own	Social Housing		\$402,000	\$402,000	not material
Total Social Services/Housing		\$7,307,500	\$20,559,500	\$20,559,500	

Department	Division	2024	10-Year Total Project Costs	Total Funding Required	Annual Shortfall based on 2024 proposed
Board	Police	\$955,950	\$35,255,223	\$35,255,223	\$111,312
Board	Library	\$396,370	\$26,764,240	\$26,764,240	\$144,714
Total Boards		\$1,352,320	\$62,019,463	\$62,019,463	\$256,026
Not included additional IS road estimates			\$ 260,900,000	\$260,900,000	\$505,038
TOTAL 10-year Capital Forecast (impacting tax levy)		\$43,844,000	\$645,410,143	\$645,410,143	\$31,716,228
IS - fees	Sanitary	\$940,000	\$16,980,000	\$16,980,000	not material
	Water	\$750,000	\$2,800,000	\$2,800,000	\$505,038
Total IS User-Pay		\$1,690,000	\$19,780,000	\$19,780,000	\$505,038
TOTAL 10-year Capital Forecast (fees)		\$1,690,000	\$19,780,000	\$19,780,000	\$505,038

incl new bldg financing

incl new bldg financing

covered in rate studies

City of Stratford
Summary of 10-year Capital Funding Shortfall
At October 31, 2023

For Illustration Only:

Using the 10-year forecast information, for current and growth-related capital needs, the available capital reserves, current levels of transfers to reserves and development charges available, the intent is to demonstrate that based on current service levels, infrastructure requirements to deliver those services are underfunded.

	10-year Forecast
Total Projects (identified and estimated)	\$ 665,190,143
Approximate Balance in Capital Reserves @ 2023 estimated - all	\$ (54,049,612)
Grant Funding Expected	\$ (87,831,020)
Estimated DCs over next 10 years * adjusted for Bill 23 (\$3m)	\$ (3,000,000)
Other (shared sources, fundraising)	\$ (16,447,748)
Annual Transfers/Funding (Using Proposed 2024 Levels) \$17,746,663 x 10 years	\$ (177,466,630)
Potential taxation from projected growth	\$ (5,000,000)
Available Funding, all sources, 10 year estimate	\$ (343,795,010)
Revised Shortfall using all available revenue streams including growth	\$ 321,395,134
Annualized Shortfall	\$ 32,139,513
Long-Term Debt Maximum Capacity based on MMAH Annual Repayment limits approx.	\$ 238,377,285
Current Long-term Debt (including drawn and authorized, not yet drawn)	\$ 73,853,606
	<u>\$ 164,523,679</u>

City of Stratford
Proposed Transfers to Reserve Funds 2024
At October 31, 2023

Purpose: to compare proposed transfers for capital purposes to previous and assess adequacy

	2023 Approved	2024 Draft	Change	Percent Change	Req'd per 10 yr Capital	Annual Req'd 10 year capital forecast see note (1)	Annual Shortfall in Current Contributions vs Required
135 PARKING	204,800	0	204,800	100%	2,904,250	\$ 11,682	\$ 11,682
134 INFORMATION TECHNOLOGY	200,000	200,000	44,430	22%	4,304,000	\$ 350,400	\$ 150,400
211 FIRE	175,000	180,000	25,000	14%	1,806,750	\$ 43,175	see note (2)
512 STRATFORD MUNICIPAL AIRPORT	100,000	90,000	20,000	20%	1,600,000	\$ 135,000	\$ 45,000
231 POLICE	839,106	570,468	310,706	37%	7,044,796	\$ 681,780	\$ 111,312
315 FLEET (incl bldg,by-law,eng, SS)	82,070	100,200	50,870	62%	15,782,500	\$ 1,220,030	\$ 1,119,830
320 ROADS,ALL incl linear and misc	2,309,000	3,352,500	463,600	20%	337,088,763	\$ 32,458,876	\$ 29,106,376
330 SANITARY incl linear	2,066,993	2,570,147	536,073	26%	25,921,363	\$ 2,352,136	see note (2)
340 STORM incl linear	1,560,000	1,800,000	229,000	15%	23,618,763	\$ 2,321,876	\$ 521,876
350 WATER incl linear	972,352	1,316,838	42,502	4%	21,018,763	\$ 1,821,876	\$ 505,038
360 WASTE	810,000	1,062,000	64,600	8%	1,350,000	-\$ 85,000	see note (2)
411 STRATFORD PUBLIC LIBRARY	282,970	406,210	1,280	0%	5,759,240	\$ 550,924	\$ 144,714
614 PS HOUSING CORP / LHC	1,686,460	1,526,300	687,960	41%	6,505,200	\$ 344,520	see note (2)
618 BRITANNIA ST APARTMENTS	117,380	125,000	34,810	30%	402,000	-\$ 11,075	see note (2)
711 PARKS	200,000	300,000	(117,000)	-59%	1,951,340	\$ 195,134	see note (2)
721 RECREATION	1,120,000	2,500,000	596,000	53%	22,748,000	\$ 2,185,300	see note (2)
141 CITY BUILDINGS	764,410	1,500,000	338,010	44%	12,044,500	\$ 1,188,850	see note (2)
731 CEMETERY	147,000	147,000	(83,000)	-56%	658,500	\$ 64,035	see note (2)
Total 7820 TRANSFER TO RESERVE FUND	13,432,741	17,746,663	4,313,922	42%	489,604,476	45,817,837	31,716,229

(1) after factoring in current balances available

(2) Based on 2024 proposed transfers, 2024 capital and subsequent identified projects can be completed without additional material increases to current levels

If reserve contributions as proposed (2024)	39%	17,746,663
If increase similarly 2025	48%	22,060,585
If increase similarly 2026	58%	26,374,507
If increase similarly 2027	67%	30,688,429
If increase similarly 2028	76%	35,002,351
If increase similarly 2029	86%	39,316,273

	CITY OF STRATFORD 2024 CAPITAL PLAN SUMMARY	Total 2024 Project Cost	FUNDING SOURCES			
			Fed/Prov Funding	Development Charges	Long Term Debt	Other
A. Corporate Services						
	A.1. Parking					
A.1.1	Erie Lot Improvements	\$ 1,500,000				\$ 1,500,000
A.1.2	Smart Parking Project	65,000				65,000
A.1.3	EV Charging Stations	262,000				262,000
A.1.4	Comprehensive Parking Management System	75,000				75,000
A.1.5	Queen Street Parking Lot	100,000				100,000
	A.2. Information Technology Services					
A.2.1	Personal Computers	192,000				192,000
A.2.2	Network Equipment	100,000				100,000
A.2.3	Video Surveillance Equipment	212,000				212,000
B. Fire/Airport						
	B.1. Fire					
B.1.1	Fire Station 2 Façade Repair	\$ 60,000				\$ 60,000
	B.2. Airport					
	Nil for 2024	0				0
C. Community Services						
	C.1. Parks & Forestry					
C.1.1	Play Structure Replacement - Milton Street Park	\$ 111,340				\$ 111,340
	C.2. Cemetery					
C.2.1	Cemetery Garage Doors	28,500				28,500
	C.3. Facilities - Recreation					
C.3.1	Boathouse Membrane and Railing Replacement	260,000				260,000
C.3.2	Dufferin Arena Cooling Tower Replacement	125,000				125,000
C.3.3	Anne Hathaway Ball Diamond Fencing Replacement	80,000				80,000
C.3.4	Allman Arena Heating Boiler System Replacement	80,000				80,000
C.3.5	Allman Arena Roof Replacement	1,550,000				1,550,000
C.3.6	Allman Arena Concrete Foundation Walls Repairs	80,000				80,000
C.3.7	Allman Arena Flooring Replacement	95,000				95,000
C.3.8	Agriplex Guardrails Replacement	375,000				375,000
C.3.9	National Stadium Washroom Renovations	100,000				100,000

CITY OF STRATFORD 2024 CAPITAL PLAN SUMMARY			FUNDING SOURCES				
	Total 2024 Project Cost	Fed/Prov Funding	Development Charges	Long Term Debt	Other	City Reserves	
C.4. Facilities - Other City Buildings							
C.4.1	Justice Building Roof Replacement	490,000				490,000	
C.4.2	Justice Building Exterior Elements Repairs	75,000				75,000	
C.4.3	Justice Building Accessible Ramp	275,000				275,000	
C.5. Transit							
C.5.1	Bus Storage/Facility Upgrades	135,840	135,840				
C.5.2	Hybrid Buses (HEV)	2,310,000	2,310,000				
C.5.3	Automatic Bus Wash Replacement	367,500	367,500				
D. Infrastructure Services							
D.1. Roads and Traffic							
D.1.1	Sidewalk Replacements	\$ 300,000				\$ 300,000	
D.1.2	Accessibility Improvements	50,000				50,000	
D.1.3	Pedestrian Crossing Improvements	100,000				100,000	
D.1.4	Oakdale Multi-Use Trail	500,000	\$ 500,000				
D.1.5	Downtown Intersection Improvements	1,200,000	300,000			900,000	
D.1.6	Bridge Improvements and Renewal	1,200,000	750,000		\$ 450,000		
D.1.7	Signalized Intersection Updates	50,000				50,000	
D.1.8	Street Lighting Improvements	50,000				50,000	
D.1.9	New Sidewalks, Collector and Arterial	200,000		\$ 100,000		100,000	
D.1.10	Lakeside Drive Design and TIS	200,000				200,000	
D.1.11	Erie Street Active Transportation	300,000				300,000	
D.1.12	Signage 40km per hour	240,000				240,000	
D.2. Storm							
D.2.1	SWM Facility Maintenance	250,000				250,000	
D.2.2	Lake Victoria Outfall Replacements	100,000				100,000	
D.2.3	Roadhouse Municipal Drain Improvement	2,000,000	2,000,000				
D.3. Water							
D.3.1	Miscellaneous Water Repairs	100,000				100,000	
D.3.2	Mechanical Upgrades to Wells	100,000				100,000	
D.3.3	Bulk Water Station Upgrade	50,000				50,000	
D.3.4	O'Loane Watermain at Perth Line 36	250,000		250,000			
D.3.5	Well Chlorination System Upgrades	100,000				100,000	
D.3.6	Glendon/Neal Watermain Connection Replacement	150,000				150,000	

CITY OF STRATFORD 2024 CAPITAL PLAN SUMMARY			FUNDING SOURCES				
	Total 2024 Project Cost	Fed/Prov Funding	Development Charges	Long Term Debt	Other	City Reserves	
D.4. Miscellaneous							
D.4.1	Public Works Facility Upgrades	200,000				200,000	
D.4.2	New Public Works Facility	250,000		200,000		50,000	
D.5. Sanitary							
D.5.1	Water Pollution Control Plant Improvements	380,000				380,000	
D.5.2	Basement Isolation	30,000				30,000	
D.5.3	Miscellaneous Sanitary Repairs	30,000				30,000	
D.5.4	Sanitary Relining Subsidy	50,000				50,000	
D.5.5	Pumping Station Upgrades	150,000				150,000	
D.5.6	O'Loane Avenue Trunk Sanitary Phase 1	300,000		288,000		12,000	
D.6. Linear Infrastructure							
D.6.1	Asphalt Resurfacing	\$ 2,250,000	\$ 2,025,000			\$ 225,000	
D.6.2	Sewer Relining	750,000				750,000	
D.6.3	Watermain Relining	700,000				700,000	
D.6.4	Albert Street Reconstruction 2024	4,100,000	1,740,000			2,360,000	
D.6.5	Moderwell Street Local Improvement	1,200,000			\$ 95,000	1,105,000	
D.6.6	Avondale Avenue - Hibernia to Cemetery	4,100,000	660,000			3,440,000	
D.6.7	Albert Street Reconstruction 2023	1,925,000	1,000,000			925,000	
D.6.8	Ontario/Erie Street Resurfacing 2023	2,100,000	1,890,000			210,000	
D.7. Fleet							
D.7.1	Replacement of L20 Pickup Truck	\$ 70,000				\$ 70,000	
D.7.2	Replacement of L30 Pickup Truck	70,000				70,000	
D.7.3	Replacement of W40 Backhoe	250,000				250,000	
D.7.4	Replacement of R50 Sidewalk Tractor/Attachments	250,000				250,000	
D.7.5	Replacement of R70 Sidewalk Tractor/Attachments	250,000				250,000	
D.7.6	Replacement of N47 Mobile Painter Unit	20,000				20,000	
D.7.7	Replacement of M10 Roller Unit	90,000				90,000	
D.7.8	Replacement of P15 Tractor Loader and Backhoe	90,000				90,000	
D.7.9	Carryover additional Pickup - Environmental Services	70,000				70,000	
D.7.10	Carryover of Forestry Truck and Chipper Box	265,000				265,000	
D.7.11	Parks and Recreation Pickup Truck	70,000				70,000	
D.7.12	Public Works Pickup Truck	70,000				70,000	
D.8. Landfill							
D.8.1	Landfill Buffer Acquisition	200,000				200,000	

CITY OF STRATFORD 2024 CAPITAL PLAN SUMMARY		Total 2024 Project Cost	FUNDING SOURCES				
			Fed/Prov Funding	Development Charges	Long Term Debt	Other	City Reserves
E. Social Services							
E.1. Perth and Stratford Housing Corporation							
E.1.1	9 Fulton Street Rebuild	\$ 5,301,500	\$ 699,200		\$ 4,602,300		
E.1.2	Driveways and Parking Lots	50,000					\$ 50,000
E.1.3	Connectivity	846,000	400,000				446,000
E.1.4	Kitchen Replacements	300,000					300,000
E.1.5	Furnace Replacements	55,000					55,000
E.1.6	Roof Replacements	300,000					300,000
E.1.7	Window Replacements	55,000					55,000
E.1.8	Accessibility Upgrades	100,000					100,000
E.1.9	Electrical Upgrades	50,000					50,000
E.1.10	Fencing	5,000					5,000
E.1.11	Roofing Tie Offs and Access Ladders	100,000					100,000
E.1.12	Balcony Repairs	35,000					35,000
E.1.13	Asbestos Assessments and Abatement	100,000					100,000
E.1.14	Flooring Repairs and Replacement	10,000					10,000
F. Stratford Public Library							
F.1	Library Collection	\$ 247,170		\$ 20,000			\$ 227,170
F.2	Library Computer Equipment	49,200					49,200
F.3	Staff Restroom Facility Update	25,000					25,000
F.4	New Library Facility Expenses	75,000					75,000
G. Stratford Police Service							
G.1	Desktop Computer refresh	\$ 30,600					\$ 30,600
G.2	Vehicle 4, 11, 12 <3 vehicles>	240,000					240,000
G.3	CCTV - Expansion - Grant	100,000	100,000				
G.4	Backup Communication Centre	263,480	263,480				
G.5	Server Room Upgrade - Expansion	111,870	100,000				11,870
G.6	LiveScan Fingerprinting System	40,000					40,000
G.7	Chief Admin Vehicle	70,000					70,000
G.7	Business Plan Consultant	100,000					100,000
TOTALS		\$ 45,534,000	\$ 15,241,020	\$ 858,000	\$ 4,602,300	\$ 545,000	\$ 24,287,680

	CITY OF STRATFORD 2024 CAPITAL PLAN SUMMARY	Total 2024 Project Cost	FUNDING SOURCES			
			Fed/Prov Funding	Development Charges	Long Term Debt	Other

TOTALS	\$ 45,534,000	\$ 15,241,020	\$ 858,000	\$ 4,602,300	\$ 545,000	\$ 24,287,680
		see Note 1			see Note 2	see Note 3

Note 1 Federal/Provincial Funding * not included in the budgeted operating revenues.

consists of funding expected in-year and previously received

Ontario Community Infrastructure Funds (OCIF)	\$ 3,700,000
Provincial Gas Tax (PGT)	\$ 750,317
Investing in Canada Infrastructure	\$ 2,063,023
Canada Community Building Fund (CCBF)	\$ 5,275,000
Connecting Link	\$ 1,890,000
Social Services Ministry Funding	\$ 699,200
Provincial Policing Grants	\$ 863,480
	<u>\$ 15,241,020</u>

Note 2 Other

Perth County Contribution	\$ 450,000
Local Improvement Recoveries	\$ 95,000
	<u>\$ 545,000</u>

Note 3 Total use of reserve funds exceeds in-year contributions to reserve funds, illustrating the cyclical nature of infrastructure renewal. It should be noted that ongoing use of reserve funds beyond current year contributions, and further illustrates the need for continued increases to the annual contributions to reserve funds.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept Corporate Services
Division A.1 Parking

2024 Project Number	Project Name	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
A.1.1	Erie Lot Improvements	1,500,000										1,500,000					1,500,000	1,500,000
	York Lot Improvements		725,000									725,000					725,000	725,000
	Cobourg Lot Improvements				50,000	50,000						100,000					100,000	100,000
	Downie Lot Improvements		100,000									100,000					100,000	100,000
A.1.2	Smart Parking Project	65,000	17,250									82,250					82,250	82,250
A.1.3	EV Charging Stations Expansion Project	262,000										262,000	40,000				222,000	262,000
A.1.4	Comprehensive Parking Management System	75,000										75,000					75,000	75,000
A.1.5	Queen Street Parking Lot	100,000										100,000					100,000	100,000
		\$ 2,002,000	\$ 842,250	\$ -	\$ 50,000	\$ 50,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,944,250	\$ 40,000	\$ -	\$ -	\$ -	\$ 2,904,250	\$ 2,944,250
New Assets Identified in DC Study																		
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

2024 Capital Project Detail Form

Department and Division	Corporate Services - Parking
Project Number	A.1.1
Project Name	Erie Lot Improvements
Start Date and End Date	April 1 to November 1, 2024

Brief Project Description:

To improve the condition of the Erie Lot.

A. Project Justification/Contribution to City Services and Strategic Priorities:

The infrastructure in the Erie Lot is at the end of its service life and significant aspects of the lot are in a state of disrepair including pavement and storm infrastructure. Emergency repairs have been required in the past but will not address the issue until it can be completely rehabilitated or replaced. This project was initially budgeted for in 2022 but was unable to commence due to legal barriers related to easements on site. Staff are currently exploring options to repair the lot and mitigate risks to the City which may not involve needing to alter existing easement agreements. Staff are planning to report to Council with available options once a comprehensive analysis has been completed.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
4050 Contractors	1,500,000	
Total Project Cost	\$ 1,500,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	1,500,000	R-R11-PRKG
Total Funding	\$ 1,500,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:

There will be ongoing maintenance and pavement patching required. These funds are already included in the parking budget annually.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

This is one of the City's most heavily used, paid lots. If this item is not approved the condition of the lot will continue to deteriorate and there could be additional insurance claims for trips and falls. Emergency repairs that may be required would also result in emergency closures of the lot. Any closures of the lot would result in a significant loss of revenue for paid parking and an impact to neighbouring businesses.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #

Description (make, model, year)

Current Condition Rating

Will it extend useful life? yes

If yes, amended useful life in years 10

Service Level Impact

Explain:

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This capital project is not associated with GHG emissions reductions or the recommendations of the Corporate Energy and Emissions Plan at this time.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Corporate Services - Parking
Project Number	A.1.2
Project Name	Smart Parking Project
Start Date and End Date	April 1 to November 1, 2024

Brief Project Description:

The Parking Division has created a 5 year implementation plan for the install of parking sensors into all downtown core lot and on-street parking spaces. This detail form identifies year 4 of the implementation plan. Costs have also been included in year 4 to introduce electronic signage to one of the downtown core parking lots which would display available parking based on real time occupancy.

A. Project Justification/Contribution to City Services and Strategic Priorities:

This plan will help improve how motorists get around the downtown and the efficiency in identifying available parking opportunities. Future service efficiencies may also exist with respect to how parking enforcement is conducted.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
3050 Materials	65,000	
Total Project Cost	\$ 65,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	65,000	R-R11-PRKG
Total Funding	\$ 65,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 42,729
Amount in Future Budget Years	\$ 55,800

Description:

Costs will be recurring per sensor that is installed for an application software subscription with the City's vendor that is supplying the parking sensors, data storage, dashboard software, and support services. Costs are also recurring per parking space where electronic signage is installed.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Should the continuation of this project not be approved, limited data would be available for displaying to members of the public and create an imbalance of infrastructure in different areas of the downtown core. This has the potential to result in already installed sensors becoming redundant.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2031-2034
Projected Replacement Cost	\$ 140,000
Projected Useful Life	10 years
Service Level Impact	Increase

Explain:

Available parking spaces/areas could be identified electronically through a variety of options for members of the public, including but not limited to the City's website, HotSpot parking app, and electronic signage.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This capital project is not associated with GHG emissions reductions or the recommendations of the Corporate Energy and Emissions Plan at this time.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form		
Department and Division	Corporate Services - Parking	
Project Number	A.1.3	
Project Name	Electric Vehicle Charging Station Expansion	
Start Date and End Date	January 1 to December 31, 2024	
Brief Project Description:		
To purchase and install new EV charging stations for the downtown core.		
A. Project Justification/Contribution to City Services and Strategic Priorities:		
The main purpose of this project is to increase availability of parking for electric vehicles in Stratford and to support methods of transportation which are more sustainable. Through a successful funding application to NRCan through the Zero Emission Vehicle Infrastructure Program, staff initiated the purchase and install of several new EV charging stations in 2023 and will be completing the project in 2024.		
B. Project Financials:		
(including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	262,000	
Total Project Cost	\$ 262,000	
	Amount	Additional Detail
Reserve or Reserve Fund (specify)	222,000	R-R11-PRKG
Federal or Provincial Funding	40,000	NRCan - Zero Emissions Vehicle Infrastructure Program
Total Funding	\$ 262,000	
C. Impact on Operating Budget Going Forward:		
Amount in this Budget Year		
Amount in Future Budget Years		
Description:		
Costs will be incurred annually (or multi year options) for CloudPlan access which offers the City access to a realtime dash board with data on usage for all connected chargers. Support is also available from the vendor through each CloudPlan. The amount indicated in this section has been budgeted for should all aspects of the project be approved but would be the cost of a future 5 year plan to cover these services. Each station upon install will have a current plan covering them for the first 5 years of use. These ongoing costs could be offset by charging a user fee for use of the stations.		
D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:		
Should the City not be able to cover our portion of the project then funding may be revoked.		
E. Asset Management Plan:		
E.1 For a new purchase or construction		
Projected Replacement Year		2033-2034
Projected Replacement Cost	\$	200,000
Projected Useful Life		10 years
Service Level Impact		Increase
Explain:		
E.2 For a major repair or rehabilitation of an existing asset		
E.3 Is there an asset to be disposed? No		
Asset ID #		
Description (make, model, year)		
Expected Disposal Date		

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) >15 tCO₂e
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This capital project directly supports the City's commitment toward decarbonization and indirectly contributes to emission reductions from fossil fuels that are utilized by conventional vehicles.
Estimated net GHG emissions generated through the operation of these stations is dependent on the energy dispensed. For example, by estimating the distance travelled for an electric vehicle (EV) that has been fully charged by the electricity/energy output from the stations, the emissions produced by generating that electricity can be calculated and compared with the emissions that would be generated by a comparable gas-powered vehicle traveling the same distance, using current rates of both, fuel and CO₂ tonnage. To date, EV stations in the City have avoided approximately 4.5 tCO₂e.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Corporate Services - Parking
Project Number	A.1.4
Project Name	Comprehensive Parking Management System
Start Date and End Date	January 1 to December 31, 2024

Brief Project Description:
 The Parking Division is seeking a complete parking management system to administer parking enforcement and associated administrative responsibilities.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The Parking Division currently utilizes three separate systems to enforce and administer parking for the City of Stratford. After exploring the market through a Request for Information in 2023, staff are confident that a single system could provide for several enforcement and administrative efficiencies that are not currently being realized. By streamlining parking enforcement through a single system, efficiencies could also be passed on to the customer with respect to how they interact with our Office and the parking experience.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
3050 Materials	75,000	
Total Project Cost	\$ 75,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	75,000	R-R11-PRKG
Total Funding	\$ 75,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 40,000	Annual
Amount in Future Budget Years	\$ 40,000	

Description:
 Considers recurring annual costs associated with the procurement of a comprehensive parking management solution, including possible add on services currently available in the market.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 If not approved, the Parking Division would continue to provide status quo services. This would impact the division's ability to improve the customer experience and realize administrative efficiencies.

E. Asset Management Plan:
E.1 For a new purchase or construction
E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

Asset ID #

Description (make, model, year)

Expected Disposal Date

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This capital project is not associated with GHG emissions reductions or the recommendations of the Corporate Energy and Emissions Plan at this time.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Corporate Services - Parking
Project Number	A.1.5
Project Name	Queen Street Parking Lot
Start Date and End Date	May 1 to December 31, 2024

Brief Project Description:
 The City is taking over responsibility of the Queen Street Parking Lot as of May 1, 2024. This parking lot is located at the corner of Lakeside Drive and Queen Street and has previously been leased to the Stratford Festival.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The Queen Street parking lot will add several new parking spaces into the City's current inventory. Being a location outside of the downtown core, staff are proposing to add a gated entry and exit system to control paid parking and reduce the need for frequent attendance by parking enforcement officers. New signage will also be required to identify the parking lot, matching current parking signage themes, and to advise of required parking rates and times.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	60,000	
3050 Materials	40,000	
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-PRKG
Total Funding	\$ 100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		
Description:		

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 If this item is not approved, the City will still take responsibility for the Queen Street Parking Lot as of May 1, 2024. However, parking would be free and not enforced until such time as parking restrictions and/or infrastructure is put into effect.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2034
Projected Replacement Cost	\$ 30,000
Projected Useful Life	
Service Level Impact	

Explain:
 Estimated future replacement cost for gated entry/exit system.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

Asset ID #

Description (make, model, year)

Expected Disposal Date

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This capital project is not associated with GHG emissions reductions or the recommendations of the Corporate Energy and Emissions Plan at this time.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Corporate Services**
Division **A.2 Information Technology**

2024 Project Number	Project Name	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
A.2.1	Personal Computers	192,000	25,000	25,000	200,000	230,000	25,000	25,000	220,000	250,000	25,000	1,217,000					1,217,000	1,217,000
A.2.2	Network Equipment	100,000	100,000	50,000	50,000	150,000	50,000	50,000	150,000	200,000	50,000	950,000					950,000	950,000
A.2.3	Video Surveillance Equipment CF	212,000								250,000		462,000					462,000	462,000
	Conference Room Technologies				100,000						100,000	200,000					200,000	200,000
	Unified Communication Systems			200,000			100,000					300,000					300,000	300,000
	Website enhancements		50,000			50,000			50,000			150,000					150,000	150,000
	GIS Enhancements		50,000			50,000			50,000			150,000					150,000	150,000
	Enterprise ERP enhancements		200,000		200,000		200,000		100,000		100,000	800,000					800,000	800,000
	Intranet enhancements			50,000					25,000			75,000					75,000	75,000
												-						-
		\$ 504,000	\$ 425,000	\$ 325,000	\$ 550,000	\$ 480,000	\$ 375,000	\$ 100,000	\$ 570,000	\$ 700,000	\$ 275,000	\$ 4,304,000	\$ -	\$ -	\$ -	\$ -	\$ 4,304,000	\$ 4,304,000
New Assets Identified in DC Study																		
												-						-
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

2024 Capital Project Detail Form

Department and Division	Corporate Services - Information Technology
Project Number	A.2.1
Project Name	Personal Computers
Start Date and End Date	06/01 to 12/30

Brief Project Description:
Replacement of Desktops, Monitors and Laptops with accessories.

A. Project Justification/Contribution to City Services and Strategic Priorities:
To keep current with technology and maintain the level of support and services, computers and laptops are to be replaced on a four year replacement plan.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
9030 Equipment	192,000	
Total Project Cost	\$ 192,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	192,000	R-R11-ITCA
Total Funding	\$ 192,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
The risks include increased vulnerability to cyber threats, decreased productivity and employee morale, and higher operational costs due to potential incompatibility issues and maintenance of older computers.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2028
Projected Replacement Cost	\$ 230,400
Projected Useful Life	4
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

Asset ID #

Description (make, model, year)

Expected Disposal Date

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)

<5 tCO₂e

An indirect impact on emissions is expected, however more energy efficient equipment does contribute to comparatively reduced energy usage and reflect in overall utility savings.

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Manufacturers offer Energy Star qualified IT equipment in a number of product categories. Such equipment may use approximately 25% to 40% less energy, on an average, than a standard model. Reduced energy usage is expected to impact emissions generation throughout a facility, and result in comparatively lower energy bills.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Corporate Services - Information Technology
Project Number	A.2.2
Project Name	Network Equipment
Start Date and End Date	06/01 to 12/30

Brief Project Description:
Based on replacement cycle on network equipment across all city facilities.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The benefits of regular network upgrades is enhanced performance, better support for contemporary applications, and a resilient system architecture, able to handle evolving organizational demands.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
9030 Equipment	80,000	
4040 Consultants	20,000	
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-ITCA
Total Funding	\$ 100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
If the budget for network replacement is not approved, there are significant risks such as increased vulnerability to cyber-attacks, potential operational disruptions due to outdated hardware, decreased system reliability, and elevated maintenance costs

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2,030
Projected Replacement Cost	150000
Projected Useful Life	8
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) Unknown
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This capital request does not directly relate to the recommendations of the Corporate Energy and Emissions Plan (CEEP), and climate targets.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Corporate Services - Information Technology
Project Number	A.2.3
Project Name	Video Surveillance Equipment CF
Start Date and End Date	January 1, 2024 to June 30, 2024

Brief Project Description:
 Keeping the video surveillance technology current is crucial for maintaining a secure and safe environment.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Up-to-date equipment offers enhanced image quality, advanced features, better reliability, and improved integration capabilities with other security systems.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
9030 Equipment	132,000	
4050 Contractors	80,000	
Total Project Cost	\$ 212,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	212,000	R-R11-ITCA
Total Funding	\$ 212,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	\$ 42,000	3 year renewal of licensing (year 2027 to 2030)

Description:

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 If the budget for replacing video surveillance equipment is not approved, it could lead to compromised security due to potential failures or limitations of outdated equipment, inadequate coverage and resolution.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2032
Projected Replacement Cost	\$ 250,000
Projected Useful Life	8
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

Asset ID #

Description (make, model, year)

Expected Disposal Date

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) Unknown

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Video surveillance equipment utilizes electricity to function and perform as intended. Although there are no direct implications of this request to the CEEP, such equipment is expected to contribute to overall annual emissions of the facility where it is installed. Therefore it is prudent that the most energy efficient option be selected for installation and use, and end-of-life considerations taken into account (e.g. manufacturer takeback program etc.).

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Fire**
Division **B.1 Fire**

2024 Project Number	Project Name	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
B.1.1	Station 2 façade repair	60,000										60,000				60,000	60,000	
	Utility Vehicle Replacement		80,000									80,000				80,000	80,000	
	Engine 2 Replacement				1,000,000							1,000,000				1,000,000	1,000,000	
	SCBA Replacement										610,000	610,000				610,000	610,000	
	Fire Hose		10,500		11,000		11,500		11,750		12,000	56,750				56,750	56,750	
		\$ 60,000	\$ 90,500	\$ -	\$ 1,011,000	\$ -	\$ 11,500	\$ 610,000	\$ 11,750	\$ -	\$ 12,000	\$ 1,806,750	\$ -	\$ -	\$ -	\$ -	\$ 1,806,750	\$ 1,806,750
New Assets Identified in DC Study																		
												-						-
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

2024 Capital Project Detail Form

Department and Division	Fire
Project Number	B.1.1
Project Name	Station 2 Façade Repair
Start Date and End Date	as soon as possible

Brief Project Description:

Strapping holding stone composite architectural sheet façade to the wall is rotting. Removal of façade and see what options will be available to replace or repair.

A. Project Justification/Contribution to City Services and Strategic Priorities:

Health and safety concern as water has been getting behind composite architectural façade, to the wooden strapping. Fear of one of these sheets of heavy façade falling and injuring someone is a real concern.

B. Project Financials:

(including 1.76% net HST expenses)

	Cost	Additional Detail
4107 Building Repair	60,000	Facade removal will provide more insight
Total Project Cost		
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	60,000	R-R11-FIRE
Total Funding	\$ 60,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 60,000	Current
Amount in Future Budget Years	Unknown	

Description:

Options may be cheaper but unknown until façade is removed from the building.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Health and safety concerns eliminated if proceeding with this item. Potential damage or injury if not approved.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #
Description (make, model, year) 1979
Current Condition Rating
Will it extend useful life? No
If yes, amended useful life in years
Service Level Impact Maintain

Explain:

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) Unknown
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This Capital initiative seeks to repair or replace the existing façade without insulation (not a requirement) so it is not relevant to the Corporate Emissions Plan.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Fire**
Division **B.2 Airport**

2024 Project Number	Project Name	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
	Airfield Lighting System Upgrade							600,000				600,000					600,000	600,000
	Taxiway extension						1,000,000					1,000,000					1,000,000	1,000,000
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,000,000	\$ -	\$ 600,000	\$ -	\$ -	\$ 1,600,000	\$ -	\$ -	\$ -	\$ -	\$ 1,600,000	\$ 1,600,000
New Assets Identified in DC Study																		
												-						-
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Community Services**
Division **C.1 Parks and Forestry**

2024 Project Number	Project Name	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding	
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves		
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																			
C.1.1	Play Structure Replacement - Milton St. Park	111,340										111,340					111,340	111,340	
	Replace Play structures		110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	990,000					990,000	990,000	
	Replace Swan Building										300,000	300,000					300,000	300,000	
	Replace Queens Park Play Surface		50,000									50,000					50,000	50,000	
	Removal of parks lunchroom				30,000							30,000					30,000	30,000	
	SERC Track Replacement - Accessibility Committee Request		470,000									470,000					470,000	470,000	
		\$ 111,340	\$ 630,000	\$ 110,000	\$ 140,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 110,000	\$ 410,000	\$ 110,000	\$ 110,000	\$ 1,951,340	\$ -	\$ -	\$ -	\$ -	\$ 1,951,340	\$ 1,951,340
New Assets Identified in DC Study																			
												-							-
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

2024 Capital Project Detail Form

Department and Division	Community Services - Parks and Forestry
Project Number	C.1.1
Project Name	Play Structure Replacement - Milton St. Park
Start Date and End Date	August - September 2024

Brief Project Description:
Remove and replace aging play structure at Milton St. Park.

A. Project Justification/Contribution to City Services and Strategic Priorities:

Cyclical replacement of aging play structure, as play structure is over the 15-year Canadian Standards Association (CSA) recommended life span. Continue to provide safe play units in all neighbourhoods.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
3050 Materials	111,340	Play structure, engineered woodchip base and pathway from sidewalk to play structure.
Total Project Cost	\$ 111,340	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	111,340	R-R11-RECR
Total Funding	\$ 111,340	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 111,340	Current
Amount in Future Budget Years		

Description:

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Equipment is in poor condition as it is 20 years old which is over the CSA standard life span of 15 years. Continue cyclical replacement program to avoid inspection and equipment failure resulting in possible injuries or equipment shutdown.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2044
Projected Replacement Cost	\$ 125,000
Projected Useful Life	15 - 20 years
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	<u>Additional Detail</u>
Mechanical System	N/A	
Windows	N/A	
Lighting	N/A	
Insulation Upgrade	N/A	
Annual GHG emissions reduction (tCO2e)	0.0	
Service Life GHG emissions (tCO2e)	-	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This initiative is not directly associated with recommendations of the Corporate Energy and Emissions Plan.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Community Services**
Division **C.2 Cemetery**

2024 Project Number	Project Name	2024	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding	
			2025	2026	2027	2028	2029	2030	2031	2032	2033	Federal & Prov Funding		Development Charges	Long Term Debt	(specify) Other	Reserves			
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																				
C.2.1	Cemetery Garage Doors Niche/Wall Columbarium	28,500	110,000		110,000			300,000					110,000	28,500 630,000					28,500 630,000	28,500 630,000
		\$ 28,500	\$ 110,000	\$ -	\$ 110,000	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ 110,000	\$ 658,500	\$ -	\$ -	\$ -	\$ -	\$ 658,500	\$ 658,500	
<u>New Assets Identified in DC Study</u>																				
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

2024 Capital Project Detail Form

Department and Division	Community Services - Cemetery
Project Number	C.2.1
Project Name	Cemetery Garage Doors
Start Date and End Date	April - May 2024

Brief Project Description:
 To supply and install four Thermanite steel insulated overhead garage doors, to replace aging and deteriorating existing doors.

A. Project Justification/Contribution to City Services and Strategic Priorities:

Current doors are original and in need of replacement.

B. Project Financials:

(including 1.76% net HST expenses)

	Cost	Additional Detail
3050 Materials	28,500	Cost of doors and installation
Total Project Cost	\$ 28,500	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	28,500	R-R11-CEME
Total Funding	\$ 28,500	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 28,500	Current
Amount in Future Budget Years		

Description:

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Doors do not open consistently and therefore trucks and equipment are unable to enter or exit the garage.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year		2044
Projected Replacement Cost	\$	40,000
Projected Useful Life		20 years
Service Level Impact		Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This initiative is not directly associated with recommendations of the Corporate Energy and Emissions Plan. However it is recommended that purchases consider environmental impacts of materials, and products are selected based on their life cycle emissions.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept Community Services
Division C.3 Facilities - Recreation

2024 Project Number	Project Name	Gross Project Costs											Total Project Costs	Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Federal & Prov Funding		Development Charges	Long Term Debt	(specify) Other	Reserves		
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																			
C.3.1	Boathouse Membrane & Railing Replacement	260,000											260,000				260,000	260,000	
C.3.2	Dufferin Arena Cooling Tower Replacement	125,000											125,000				125,000	125,000	
C.3.3	Anne Hathaway Ball Diamond Fencing Replacement	80,000											80,000				80,000	80,000	
C.3.4	Allman Arena Heating Boiler System Replacement	80,000											80,000				80,000	80,000	
C.3.5	Allman Arena Roof Replacement	1,550,000											1,550,000				1,550,000	1,550,000	
C.3.6	Allman Arena Concrete Foundation Walls Repairs	80,000											80,000				80,000	80,000	
C.3.7	Allman Arena Flooring Replacement	95,000											95,000				95,000	95,000	
C.3.8	Agriplex Guardrails Replacement	375,000											375,000				375,000	375,000	
C.3.9	National Stadium Washroom Renovations	100,000											100,000				100,000	100,000	
ALLMAN ARENA (future years)																			
	Smart Hub		40,000										40,000				40,000	40,000	
	Roof Top Units		145,000										145,000				145,000	145,000	
	Steel Framing		10,000										10,000				10,000	10,000	
	EIFS		75,000										75,000				75,000	75,000	
	Interior Doors		20,000										20,000				20,000	20,000	
	Press Box		5,000										5,000				5,000	5,000	
	Painted Surfaces		10,000										10,000				10,000	10,000	
	HVAC Distribution System		7,000										7,000				7,000	7,000	
	Ice Resurfacer			150,000									150,000				150,000	150,000	
	Exterior Sealants			20,000									20,000				20,000	20,000	
	Rubber Flooring			14,000									14,000				14,000	14,000	
	Interior Lighting			60,000									60,000				60,000	60,000	
	Dehumidifier			90,000									90,000				90,000	90,000	
	Electrical Distribution Equipment			12,000									12,000				12,000	12,000	
	Asphalt Paving			155,000									155,000				155,000	155,000	
	Concrete Curbs			25,000									25,000				25,000	25,000	
	Concrete Elements			117,000									117,000				117,000	117,000	
	Winterize Exterior Washrooms					51,000							51,000				51,000	51,000	
	Painted Wood Railing					40,000							40,000				40,000	40,000	
	Powered Door Operators						20,000						20,000				20,000	20,000	
	BUR Roofing							130,000					130,000				130,000	130,000	
	Showers							24,000					24,000				24,000	24,000	
	Sinks							30,000					30,000				30,000	30,000	
	Toilets							28,000					28,000				28,000	28,000	
	Urinals							21,000					21,000				21,000	21,000	
	Painted Wood and Steel Seating							840,000					840,000				840,000	840,000	
	Exit Signs							14,000					14,000				14,000	14,000	
	Refrigeration Distribution System - Major Repairs							10,000					10,000				10,000	10,000	
	Ceramic Tile Floors										45,000		45,000				45,000	45,000	
	Domestic Water Distribution System										15,000		15,000				15,000	15,000	
	Domestic Hot Water Heater										8,000		8,000				8,000	8,000	
	Ice Resurfacer Hot Water & Water Treatment System										29,000		29,000				29,000	29,000	
	Brick Masonry Walls									30,000			30,000				30,000	30,000	
	Structural Analysis										50,000		50,000				50,000	50,000	
	PVC Toilet Partitions											20,000	20,000				20,000	20,000	
	Ceramic Tiled Finishes											88,000	88,000				88,000	88,000	
	Millwork - Cabinetry & Counters											50,000	50,000				50,000	50,000	
	Scoreboard LED Video Display Unit											40,000	40,000				40,000	40,000	
	CCTV System											27,500	27,500				27,500	27,500	
	Asphalt Paving											23,000	23,000				23,000	23,000	

Dept Division		Community Services C.3 Facilities - Recreation																	
2024 Project Number	Project Name	Gross Project Costs											Total Project Costs	Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Federal & Prov Funding		Development Charges	Long Term Debt	(specify) Other	Reserves		
ROTARY COMPLEX (future years)																			
	Rotary Complex Parking Lot Renovations			2,300,000									2,300,000					2,300,000	2,300,000
	Packaged Rooftop Units - Carrier		1,530,000										1,530,000					1,530,000	1,530,000
	Smart Hub		42,000										42,000					42,000	42,000
	Sound System Upgrades			30,000									30,000					30,000	30,000
	Precast Concrete Slabs			26,000									26,000					26,000	26,000
	EPDM Roofing			1,100,000									1,100,000					1,100,000	1,100,000
	Main Entrance Doors			40,000									40,000					40,000	40,000
	Elastomeric Flooring			36,000									36,000					36,000	36,000
	Toilets			117,000									117,000					117,000	117,000
	Sinks			34,000									34,000					34,000	34,000
	Urinals			32,000									32,000					32,000	32,000
	Powered Door Operators			24,000									24,000					24,000	24,000
	Scoreboard LED Video			40,000									40,000					40,000	40,000
	Fire Detection Devices			8,000									8,000					8,000	8,000
	Fire Alarm Control Panel			35,000									35,000					35,000	35,000
	Exit Signs			22,000									22,000					22,000	22,000
	Water Conditioning System			30,000									30,000					30,000	30,000
	Domestic Hot Water Boilers			100,000									100,000					100,000	100,000
	Make-up Air Units			310,000									310,000					310,000	310,000
	Split Air Conditioning Unit			6,000									6,000					6,000	6,000
	Refrigeration System - Controls				40,000								40,000					40,000	40,000
	Exterior Sealants					22,000							22,000					22,000	22,000
	Radiant Heaters					36,000							36,000					36,000	36,000
	Ice Resurfacer							150,000					150,000					150,000	150,000
	Metal Roofing							370,000					370,000					370,000	370,000
	Guardrails							8,500					8,500					8,500	8,500
	Vinyl Tile							28,000					28,000					28,000	28,000
	Domestic Water Distribution System							15,000					15,000					15,000	15,000
	Unit Paved Walkways							29,000					29,000					29,000	29,000
	Overhead Doors								34,000				34,000					34,000	34,000
	Rubber Flooring								420,000				420,000					420,000	420,000
	Millwork - Countertops								8,500				8,500					8,500	8,500
	Drinking Fountains								7,000				7,000					7,000	7,000
	Commercial Kitchen Equipment								82,000				82,000					82,000	82,000
	Wood Benches								13,000				13,000					13,000	13,000
	Fire Alarm Devices								16,000				16,000					16,000	16,000
	Domestic Hot Water Storage Tanks								12,000				12,000					12,000	12,000
	Domestic Hot Water Tank Heaters								15,000				15,000					15,000	15,000
	Fridge/Freezer Condenser Units								12,000				12,000					12,000	12,000
	Dehumidifier								150,000				150,000					150,000	150,000
	Exterior Lighting								12,000				12,000					12,000	12,000
	Loading Dock								12,000				12,000					12,000	12,000
	Concrete Elements								8,000				8,000					8,000	8,000
	Asphalt Paving								1,100,000				1,100,000					1,100,000	1,100,000
	Heating Boilers									90,000			90,000					90,000	90,000
	Concrete Slabs-on-Grade										3,000		3,000					3,000	3,000
DUFFERIN ARENA (future years)																			
	Ice Resurfacer		150,000										150,000					150,000	150,000
	Metal Roofing		90,000										90,000					90,000	90,000
	Drinking Fountain		6,000										6,000					6,000	6,000
	Gas Detection System		10,000										10,000					10,000	10,000
	HVAC Distribution System		6,000										6,000					6,000	6,000

Dept Division		Community Services C.3 Facilities - Recreation																				
2024 Project Number	Project Name	Gross Project Costs											Total Project Costs	Funding Sources					Total Funding			
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Federal & Prov Funding		Development Charges	Long Term Debt	(specify) Other	Reserves					
	Building Automation System		20,000													20,000					20,000	20,000
	Dehumidifier			70,000												70,000					70,000	70,000
	Modified Bitumen Roofing				364,000											364,000					364,000	364,000
	Fire Detection Devices				2,500											2,500					2,500	2,500
	Refrigeration Distribution System & Auxiliary Systems							10,000								10,000					10,000	10,000
	Concrete Elements							10,000								10,000					10,000	10,000
	Wood Fencing							4,000								4,000					4,000	4,000
	Exterior Sealants								7,500							7,500					7,500	7,500
	Architectural Block Masonry								5,000							5,000					5,000	5,000
	Brick Masonry								5,000							5,000					5,000	5,000
	Metal Sectional Overhead Doors								10,000							10,000					10,000	10,000
	Aluminum Framed Entrance Assembly								20,000							20,000					20,000	20,000
	Laminate Toilet Partitions								10,000							10,000					10,000	10,000
	Rubber Flooring								220,000							220,000					220,000	220,000
	Sinks								16,000							16,000					16,000	16,000
	Toilets								21,000							21,000					21,000	21,000
	Urinals								4,000							4,000					4,000	4,000
	Scoreboard & Speaker								25,000							25,000					25,000	25,000
	Fire Alarm Annunciator Panel								3,000							3,000					3,000	3,000
	Fire Alarm Control Panel								13,000							13,000					13,000	13,000
	Emergency Lights								17,500							17,500					17,500	17,500
	Exit Signs								7,500							7,500					7,500	7,500
	Domestic Water Distribution System								12,000							12,000					12,000	12,000
	Water Softener System								18,000							18,000					18,000	18,000
	Domestic Hot Water Heaters								40,000							40,000					40,000	40,000
	CCTV System								14,000							14,000					14,000	14,000
	Asphalt Paving								180,000							180,000					180,000	180,000
	Powered Door Operators												12,000			12,000					12,000	12,000
	AGRIPLEX (future years)																					
	Carpet - Second Floor		40,000													40,000					40,000	40,000
	TPO Roof Membrane			375,000												375,000					375,000	375,000
	Sound System Upgrades			35,000												35,000					35,000	35,000
	Hardwood Floor - Gym				45,000											45,000					45,000	45,000
	HVAC Distribution System				12,000											12,000					12,000	12,000
	Fire Detection Devices				7,000											7,000					7,000	7,000
	Packaged Rooftop Units - Carrier				500,000											500,000					500,000	500,000
	Exterior Sealants					15,000										15,000					15,000	15,000
	Masonry Veneer					10,000										10,000					10,000	10,000
	Main Entrance Door					36,000										36,000					36,000	36,000
	Millwork - Cabinetry & Counters					18,000										18,000					18,000	18,000
	Powered Door Operators					30,000										30,000					30,000	30,000
	Sprinkler System					12,000										12,000					12,000	12,000
	Fire Alarm Control Panel					13,000										13,000					13,000	13,000
	Domestic Water Distribution System					15,000										15,000					15,000	15,000
	Domestic Hot Water Heaters					31,000										31,000					31,000	31,000
	Water Softener System					8,000										8,000					8,000	8,000
	CCTV System					15,000										15,000					15,000	15,000
	Asphalt Paving					390,000										390,000					390,000	390,000
	Concrete Elements					8,000										8,000					8,000	8,000
	Unit Paved Walkways					10,000										10,000					10,000	10,000
	Wood Fencing					4,000										4,000					4,000	4,000
	Painted Walls & Ceilings							20,000								20,000					20,000	20,000
	Carpet - First Floor								7,500							7,500					7,500	7,500
	Metal Sloped Roofing									93,000						93,000					93,000	93,000

Dept Division		Community Services C.3 Facilities - Recreation																		
2024 Project Number	Project Name	2024	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding	
			2025	2026	2027	2028	2029	2030	2031	2032	2033	Federal & Prov Funding		Development Charges	Long Term Debt	(specify) Other	Reserves			
	Overhead Doors												42,000	42,000					42,000	42,000
	Drinking Fountain												6,000	6,000					6,000	6,000
	Heating Boilers												75,000	75,000					75,000	75,000
	Radiant Heater												3,500	3,500					3,500	3,500
	Scoreboard Systems												36,000	36,000					36,000	36,000
	NATIONAL STADIUM (future years)																			
	National Stadium Upgrades		100,000											100,000					100,000	100,000
	National Stadium Upgrades			100,000										100,000					100,000	100,000
	LIONS POOL (future years)																			
	Brick Masonry		6,000											6,000					6,000	6,000
	Painted Cement Board Siding		4,000											4,000					4,000	4,000
	Millwork - Cabinetry & Counters		7,000											7,000					7,000	7,000
	Toilets		5,000											5,000					5,000	5,000
	Sinks		7,000											7,000					7,000	7,000
	Urinals		3,000											3,000					3,000	3,000
	Exhaust Fans		4,000											4,000					4,000	4,000
	Filter Pump		30,000											30,000					30,000	30,000
	Geyser Pump		3,000											3,000					3,000	3,000
	Water Features		12,000											12,000					12,000	12,000
	Interior Lighting		4,000											4,000					4,000	4,000
	Concrete Walkway		2,000											2,000					2,000	2,000
	Wood Entrance Doors			6,000										6,000					6,000	6,000
	Sand Filter			45,000										45,000					45,000	45,000
	Pool Deck				145,000					10,000				155,000					155,000	155,000
	Wood Framed Windows							15,000						15,000					15,000	15,000
	Domestic Water Distribution System							9,000						9,000					9,000	9,000
	Chlorinator							2,000						2,000					2,000	2,000
	Driveway							50,000						50,000					50,000	50,000
	Chain Link Fence							7,000						7,000					7,000	7,000
	Concrete Slabs-on-Grade											5,000		5,000					5,000	5,000
	Gas Fired Direct Vent Boilers												40,000	40,000					40,000	40,000
	Pool Liner												170,000	170,000					170,000	170,000
	SERC (future years)																			
	Washroom Upgrades		150,000											150,000					150,000	150,000
	Sportsfield Lighting			150,000										150,000					150,000	150,000
	Tennis Court Replacement									220,000				220,000					220,000	220,000
	Sunshades				50,000									50,000					50,000	50,000
	Pathway Lighting								300,000					300,000					300,000	300,000
	UPPER QUEENS (future years)																			
	Bandshell Refurbishment		50,000											50,000					50,000	50,000
	Washroom Upgrades										1,750,000			1,750,000					1,750,000	1,750,000
	Concession										750,000			750,000					750,000	750,000
	Pavilion										45,000			45,000					45,000	45,000
	GOLF COURSE (future years)																			
	Fire Alarm Control Panel		10,000											10,000					10,000	10,000
	Exit Signs		4,500											4,500					4,500	4,500
	Water Softener System		3,000											3,000					3,000	3,000
	Unit Paved Walkways		3,000											3,000					3,000	3,000
	Brick Walls			5,000										5,000					5,000	5,000
	Concrete Slabs-on-Grade					5,000								5,000					5,000	5,000

Dept Division		Community Services C.3 Facilities - Recreation																		
2024 Project Number	Project Name	Gross Project Costs											Total Project Costs	Funding Sources					Total Funding	
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Federal & Prov Funding		Development Charges	Long Term Debt	(specify) Other	Reserves			
	Main Entrance Glass Door				3,500								3,500						3,500	3,500
	Carpet				24,000								24,000						24,000	24,000
	Millwork - Cabinetry & Counters						10,000						10,000						10,000	10,000
	Exterior Sealants							4,000					4,000						4,000	4,000
	Vinyl Tile							15,000					15,000						15,000	15,000
	Electric Unit Heaters							8,000					8,000						8,000	8,000
	CCTV System							15,000					15,000						15,000	15,000
	Asphalt Walkway							6,000					6,000						6,000	6,000
	Concrete Walkway							8,000					8,000						8,000	8,000
	Fire Alarm Devices								8,000				8,000						8,000	8,000
	Interior Doors										6,000		6,000						6,000	6,000
	Chain Link Fence											4,500	4,500						4,500	4,500
	BOATHOUSE (future years)																			
	Interlocking Pavers			4,000									8,000						8,000	8,000
	CCTV System				10,000								10,000						10,000	10,000
	Concrete Block Walls							8,000					8,000						8,000	8,000
	Overhead Garage Doors							16,500					16,500						16,500	16,500
	Exterior Lighting							5,500					5,500						5,500	5,500
	Painted Concrete Block Walls								5,000				5,000						5,000	5,000
	Furnace								5,000				5,000						5,000	5,000
	Exterior Sealants										7,500		7,500						7,500	7,500
	Asphalt Shingles											5,500	5,500						5,500	5,500
	OTHER (future years)																			
	Insulated Floor						140,000						140,000						140,000	140,000
	Art Gallery Parking Lot			110,000									110,000						110,000	110,000
	Anne Hathaway Bathroom Refurbish								120,000				120,000						120,000	120,000
	Packham Sunshades									60,000			60,000						60,000	60,000
	Packham Reset Patio									35,000			35,000						35,000	35,000
	Packham Retrofit Lighting on ballfields with LED									400,000			400,000						400,000	400,000
	Anne Hathaway Diamonds 1, 3 and 4									100,000			100,000						100,000	100,000
	Packham Diamonds 3, 4, 5									110,000			110,000						110,000	110,000
TOTALS		\$ 2,745,000	\$ 2,613,500	\$ 5,833,000	\$ 1,299,000	\$ 843,000	\$ 1,310,000	\$ 1,661,500	\$ 2,384,500	\$ 3,623,000	\$ 435,500	\$ 22,748,000	\$ -	\$ -	\$ -	\$ -	\$ 22,748,000	\$ 22,748,000		
New Assets Identified in DC Study																				
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Recreation
Project Number	C.3.1
Project Name	Boathouse Membrane & Railing Replacement
Start Date and End Date	April 1, 2024 - May 31, 2024

Brief Project Description:
Replacement of the handrails, guardrails, and membrane roofing system above the lower level.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The handrails and guardrails are in poor condition and have reached the end of their useful life. The membrane roofing system has also reached the end of its useful life and requires replacement. Water leaking has resulted from the roofing system being past its service life.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4107 Building Repair	260,000	
Total Project Cost	\$ 260,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	260,000	R-R11-RECR
Total Funding	\$ 260,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
Maintenance including cleaning and re-painting of the guardrails will be included in future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Over the past two years, water leaking into the lower space has resulted from the deficiencies with the existing membrane roofing system. Water leaking has caused damage to equipment and materials within the lower space. Further damage from water leaking has the potential to damage the structure of the facility and result in service delivery of the upper level washrooms and lower level tenant space.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2054 - 2059
Projected Replacement Cost	\$ 280,000
Projected Useful Life	30 to 35 Years
Service Level Impact	Maintain

Explain:

The membrane roofing system has a service life of 30 years, while the handrails and guardrails have a service life of 35 years.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	N/A	
Windows	N/A	
Lighting	N/A	
Insulation Upgrade	1.4 - 2.6	Slab
Annual GHG emissions reduction (tCO2e)	2.0	
Service Life GHG emissions (tCO2e)	120.0	

Expected Units Fuel Savings (\$)	Upgraded insulation in membrane roof can contribute toward a tighter building envelope, resulting in utility cost savings.
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F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This budget request aligns with the recommendations of the Corporate Energy and Emissions Plan, and can contribute to the City's emission reduction targets. The replacement membrane roofing system with thicker insulation is anticipated to be more efficient. A new roofing system has the ability to contribute to efficiencies in energy usage that can result in reduced energy and utility costs, and emission reductions of around 2 tCO2e per year.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Recreation
Project Number	C.3.2
Project Name	Dufferin Arena Cooling Tower Replacement
Start Date and End Date	April 1, 2023 - August 31, 2023

Brief Project Description:

Replacement of the cooling tower condenser for the refrigeration plant equipment at the Dufferin Lions Arena.

A. Project Justification/Contribution to City Services and Strategic Priorities:

The cooling tower condenser is a major component of the refrigeration equipment system. The cooling tower is scheduled for replacement in accordance with the life expectancy. The replacement will enable the department to continue to provide high quality ice surfaces.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4107 Building Repair	125,000	
Total Project Cost	\$ 125,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	125,000	R-R11-RECR
Total Funding	\$ 125,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:

There is no anticipated impact on current or future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

If the existing refrigeration equipment fails it could impact the operations of the refrigeration plant which would result in the loss of ice rental bookings. An unplanned replacement of equipment would result in negative financial implications to both operations and revenue.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2039
Projected Replacement Cost	\$ 150,000
Projected Useful Life	15 Years
Service Level Impact	Maintain

Explain:

The replacement will ensure the refrigeration equipment is operating efficiently. New equipment significantly decreases the possibility of failure to the refrigeration plant operations and results in fewer disruptions to the facility services.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? Yes
Asset ID # Existing Cooling Tower
Description (make, model, year)
Expected Disposal Date August 31, 2024

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	1.5 - 4.5	30% efficiency
Windows	N/A	
Lighting	N/A	
Insulation Upgrade	N/A	
Annual GHG emissions reduction (tCO2e)	3.0	
Service Life GHG emissions (tCO2e)	180.0	
Expected Units Fuel Savings (\$)	Unknown	

F.3 Climate Lens for Other Purchases

	Additional Detail
Estim. GHG Emissions Reduction (tCO2e)	<5 tCO2e

(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

The replacement cooling tower is anticipated to be more efficient than the existing unit. Energy efficient cooling towers can result in energy and cost savings, and contribute to emission reduction targets as outlined in the Corporate Energy and Emissions Plan.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Recreation
Project Number	C.3.3
Project Name	Anne Hathaway Ball Diamond Fencing Replacement
Start Date and End Date	April 1, 2024 to May 31, 2024

Brief Project Description:
Replacement of the backstops and players' benches fencing at Diamonds 1 and 3 at Anne Hathaway Park.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The facility requires fencing replacement to repair deficiencies and unsafe conditions of the ball diamond playing surface and existing players' benches. There is currently a high demand for baseball facilities in the City.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	80,000	
Total Project Cost	\$ 80,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	80,000	R-R11-RECR
Total Funding	\$ 80,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
Maintenance (repairs), and materials (hardware, supplies) will be included in future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
The existing backstops are located extremely close to the playing surface (home plate) of the ball diamonds. The backstops will be moved further back to result in a safer playing surface for users and umpires. The fencing above the players' benches is in poor condition and is a safety concern for users.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2044
Projected Replacement Cost	\$ 95,000
Projected Useful Life	20 Years
Service Level Impact	Maintain

Explain:
The expected useful life for chain link fencing for ball diamond backstops and players' benches is 20 years.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

The replacement of fencing is not anticipated to have a direct impact on GHG emissions, and does not directly align with the recommendations of the Corporate Energy and Emissions Plan. It is recommended that materials be selected based on their embodied emissions (such as information from Life Cycle Assessment and Environmental Product Declaration) with preference for those that are available locally, as these can contribute to indirect or Scope 3 GHG emissions.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Recreation
Project Number	C.3.4
Project Name	Allman Arena Heating Boiler System Replacement
Start Date and End Date	May 15, 2024 - August 15, 2024

Brief Project Description:
Replacement of the heating boiler system at the William Allman Memorial Arena.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The heating boiler system at the facility has reached the end of its serviceable life and requires replacement. The replacement is required to ensure the facility maintains the current level of service to facility users and patrons.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4107 Building Repair	80,000	
Total Project Cost	\$ 80,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	80,000	R-R11-RECR
Total Funding	\$ 80,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
There is no anticipated impact on current or future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
The existing heating boiler system has four gas-fired heating boilers. Currently two of the four boilers are not operational and replacement parts are not available. If the boiler system is not replaced, there is potential to failure of the remaining two boilers which would negatively impact the operations and service delivery of the facility and division.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2049
Projected Replacement Cost	\$ 95,000
Projected Useful Life	25 Years
Service Level Impact	Maintain

Explain:
The expected useful life of the boiler heating system is 25 years.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? Yes
Asset ID # Existing Boiler System
Description (make, model, year)
Expected Disposal Date August 1, 2024

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	1.5 - 4.5	30% efficiency
Windows	N/A	
Lighting	N/A	
Insulation Upgrade	N/A	
Annual GHG emissions reduction (tCO2e)	3.0	
Service Life GHG emissions (tCO2e)	180.0	
Expected Units Fuel Savings (\$)	Unknown	There is potential to replace the existing gas fired system with an electric system.

F.3 Climate Lens for Other Purchases

	Additional Detail
Estim. GHG Emissions Reduction (tCO2e) <5 tCO2e (tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

The replacement boiler heating system is anticipated to be more efficient than the existing system. Selecting an energy efficient boiler system can result in both energy and cost savings, and emission reductions, aligning with the recommendations of the Corporate Energy and Emissions Plan. GHG savings achieved by switching to 'same fuel system' delivering 30% reduction in utility costs are anticipated to be 3tCO2e lower than status quo.

In a low-carbon, deep retrofit scenario, replacing the existing gas powered system with an electric system (or heat pump) can result in substantial savings from fuel switching, and dramatically lower the annual GHG emissions from the facility, and contribute toward the City's carbon reduction goals for 2030.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Recreation
Project Number	C.3.5
Project Name	Allman Arena Roof Replacement
Start Date and End Date	May 15, 2024 - August 15, 2024

Brief Project Description:
Replacement of the main modified bitumen roofing system at the William Allman Memorial Arena.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The modified bitumen roofing system requires replacement to ensure the continued level of service of the facility. The existing roofing system has reached its useful life, and to extend the life of the asset, a new roofing system is required.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4107 Building Repair	1,550,000	
Total Project Cost	\$ 1,550,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	1,550,000	R-R11-RECR
Total Funding	\$ 1,550,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
There is no anticipated impact on current or future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
If the existing roofing system is not replaced there is a risk of failure to the roofing system including leaking, and potential damage to the facility structure and interior finishes. This has the potential to result in service disruption of the facility and programming including the loss of ice rentals and revenue.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2044
Projected Replacement Cost	\$ 1,750,000
Projected Useful Life	20 Years
Service Level Impact	Maintain

Explain:
The modified bitumen roofing system has a service life of 20 years.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	N/A	
Windows	N/A	
Lighting	N/A	
Insulation Upgrade	1.4 - 2.6	Roof
Annual GHG emissions reduction (tCO ₂ e)	2.0	
Service Life GHG emissions (tCO ₂ e)	120.0	
Expected Units Fuel Savings (\$)	Unknown	

F.3 Climate Lens for Other Purchases

	Additional Detail
Estim. GHG Emissions Reduction (tCO ₂ e)	<5 tCO ₂ e

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This budget request aligns with the recommendations of the Corporate Energy and Emissions Plan, and can contribute to the City's emission reduction targets. The replacement membrane roofing system with thicker insulation is anticipated to be more efficient with thicker insulation. A new roofing system has the ability to contribute to efficiencies in energy usage that can result in reduced energy and utility costs, and emission reductions of around 2 tCO₂e per year.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Recreation
Project Number	C.3.6
Project Name	Allman Arena Concrete Foundation Walls Repairs
Start Date and End Date	May 15, 2024 - August 15, 2024

Brief Project Description:
Repairs to the concrete foundation walls to address water leaking along the south elevation of the William Allman Memorial Arena.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The concrete foundation walls along the south elevation of the facility are in poor condition and require repairs that will address active water leaking into the facility. These repairs will extend the useful life of the facility in whole and maintain the service level for ice renters and facility users.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4107 Building Repair	80,000	
Total Project Cost	\$ 80,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	80,000	R-R11-RECR
Total Funding	\$ 80,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		
Description: There is no anticipated impact on current or future operating budgets.		

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
During periods of heavy rainfall, active water leaking occurs in the south elevation of the facility. Water leaking results in damage to walls, flooring, equipment, and materials. Water leaking during the facility closure period of the year has the potential for flooding of the facility when staff is not present and would create additional maintenance and repairs expenses.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year		2069
Projected Replacement Cost	\$	100,000
Projected Useful Life		45 Years
Service Level Impact		Maintain

Explain:

The required repairs (replacement of metal cap flashing, re-grading, over-cladding) to the concrete foundation walls are expected to have a combined useful life of 45 years.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	N/A	
Windows	N/A	
Lighting	N/A	
Insulation Upgrade	1.4 - 2.6	Exterior Wall
Annual GHG emissions reduction (tCO2e)	2.0	
Service Life GHG emissions (tCO2e)	120.0	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This budget request aligns with the recommendations of the Corporate Energy and Emissions Plan, and can contribute to the City's emission reduction targets.
Repairs to the foundations walls is anticipated to be more efficient with improved insulation. This creates the ability to contribute to efficiencies in energy usage that can result in reduced energy and utility costs.
Insulation upgrade can deliver GHG emission savings of approximately 2tCO2e per year, and 120tCO2e through the service life of the facility (assumed as 60 years).

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Recreation
Project Number	C.3.7
Project Name	Allman Arena Flooring Replacement
Start Date and End Date	May 15, 2024 - August 15, 2024

Brief Project Description:
 Replacement of rubber flooring, vinyl tile flooring, and hardwood flooring in various areas of the William Allman Memorial Arena.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The flooring components (hardwood, rubber, vinyl tile) have reached the end of the service life and require replacement. The replacement flooring will maintain the level of service of the facility.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4107 Building Repair	95,000	
Total Project Cost	\$ 95,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	95,000	R-R11-RECR
Total Funding	\$ 95,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
 Maintenance including cleaning and minor repairs will be included in future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Replacing the flooring will result in a facility improvement and decrease the amount of floor maintenance expenses. Not replacing the flooring has the potential to impact users of the facility and create safety issues.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2044 - 2054
Projected Replacement Cost	\$ 105,000
Projected Useful Life	20 to 30 Years
Service Level Impact	Maintain

Explain:
 The hardwood flooring, rubber flooring, and vinyl tile flooring have a service life of 20 to 30 years.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

The replacement of flooring is not anticipated to have a direct impact on GHG emissions. However, aligning with the recommendations of the Corporate Energy and Emissions Plan to actively consider Scope 3 emissions, it is recommended that all materials be selected based on their embodied emissions (such as information from Life Cycle Assessment and Environmental Product Declaration) and those that are available locally, that can contribute to indirect GHG emissions.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Recreation
Project Number	C.3.8
Project Name	Agriplex Guardrails Replacement
Start Date and End Date	May 1, 2024 - October 31, 2024

Brief Project Description:
Replacement of the existing guardrails that enclose the terrace/patio at the Agriplex.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The handrails are in fair condition and require replacement to ensure the safety of patrons and employees.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4107 Building Repair	375,000	
Total Project Cost	\$ 375,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	375,000	R-R11-RECR
Total Funding	\$ 375,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
Maintenance including cleaning and re-painting of the guardrails will be included in future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
The guardrails and supporting beam structure are in fair condition with corrosion noted throughout. Not replacing the guardrails could result in a safety issue for the terrace/patio area that could result in the space not being permitted to be utilized.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2059
Projected Replacement Cost	\$ 390,000
Projected Useful Life	35 Years
Service Level Impact	Maintain

Explain:
The service life of the replacement guardrails is expected to be 35 years. The guardrails should be planned to be cleaned and re-painted every 12 to 15 years.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

The replacement of guardrails is not anticipated to have a direct impact on GHG emissions. However, aligning with the recommendations of the Corporate Energy and Emissions Plan to actively consider Scope 3 emissions, it is recommended that materials be selected based on their embodied emissions (such as information from Life Cycle Assessment and Environmental Product Declaration) and those that are available locally, that can contribute to indirect GHG emissions.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Recreation
Project Number	C.3.9
Project Name	National Stadium Washroom Renovations
Start Date and End Date	April 1, 2024 - October 31, 2024

Brief Project Description:
National Stadium facility washrooms and changerooms renovations and upgrades.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The facility requires repairs and upgrades to maximize the use and extend the life of the facility. This facility is important to our community, serves the public at large and has demonstrable community benefits. The project will include necessary accessibility upgrades to the facility.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4107 Building Repair	100,000	
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-RECR
Total Funding	\$ 100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
Maintenance (plumbing and electrical repairs), and materials (hardware, supplies) will be included in future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
The washrooms and changerooms are in poor condition and require upgrades to comply with public health regulations. These renovations will also include accessibility upgrades in accordance with the Accessibility for Ontarians with Disabilities Act (AODA) mandates.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2044
Projected Replacement Cost	\$ 100,000
Projected Useful Life	20 Years
Service Level Impact	Maintain

Explain:
The replacement fixtures (toilets, sinks, urinals, partitions, lighting, etc.) are expected to have a useful life of 20 years.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	N/A	
Windows	N/A	
Lighting	0.4 - 0.8	LED
Insulation Upgrade	N/A	
Annual GHG emissions reduction (tCO2e)	0.6	
Service Life GHG emissions (tCO2e)	36.0	
Expected Units Fuel Savings (\$)	Unknown	

F.3 Climate Lens for Other Purchases

	Additional Detail
Estim. GHG Emissions Reduction (tCO2e)	<5 tCO2e

(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This budget request aligns with the recommendations of the Corporate Energy and Emissions Plan, and can contribute to the City's emission reduction targets. Lighting upgrades of the existing T8 and T12 lighting in the washrooms and change rooms to LED lighting will result in annual energy savings (30-40%) and utility savings. An annual GHG emission reduction of 0.6tCO2e is expected, which will translate to service life GHG emission savings of 36 tCO2e.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

**Dept Community Services
Division C.4 Facilities - Other City Buildings**

2024 Project Number	Project Name	Gross Project Costs											Total Project Costs	Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Federal & Prov Funding		Development Charges	Long Term Debt	(specify) Other	Reserves		
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																			
C.4.1	Justice Building Roof Replacement	490,000										490,000					490,000	490,000	
C.4.2	Justice Building Exterior Elements Repairs	75,000										75,000					75,000	75,000	
C.4.3	Justice Building Accessible Ramp	275,000										275,000					275,000	275,000	
<u>1 Wellington St. - City Hall</u>																			
	Exterior Envelope Maintenance (Slate, Windows, Masonry)		3,000,000									3,000,000					3,000,000	3,000,000	
	Flooring (Tile, Carpet, Hardwood)			41,000	115,000			31,000				187,000					187,000	187,000	
	Interior Finishes			15,000				15,000				30,000					30,000	30,000	
	Flat Roof (Modified Bitumen)					120,000						120,000					120,000	120,000	
	Washroom Replacements			30,000	80,000							110,000					110,000	110,000	
	HVAC - Air Handling Units					90,000						90,000					90,000	90,000	
	HVAC - Condensers						93,000					93,000					93,000	93,000	
	HVAC - Chiller System						105,000					105,000					105,000	105,000	
	HVAC - Fan Coil Units							63,000	63,000			126,000					126,000	126,000	
	Interior Light replacements - LED		26,000									26,000					26,000	26,000	
	Electrical Distribution Equipment									9,000		9,000					9,000	9,000	
	HVAC Distribution System										7,000	7,000					7,000	7,000	
<u>270 Water Street - Normal School</u>																			
	Exterior Envelope Maintenance (Masonry, Windows)			1,000,000	1,500,000							2,500,000					2,500,000	2,500,000	
	Flat Roof (Modified Bitumen)			250,000								250,000					250,000	250,000	
	Interior Finishes		36,000	20,000		75,000	20,000			10,000		161,000					161,000	161,000	
	Flooring (Tile, Carpet, Hardwood)		25,000				110,000					135,000					135,000	135,000	
	Washroom Replacements				50,000							50,000					50,000	50,000	
	HVAC - Heating Boilers			135,000								135,000					135,000	135,000	
	HVAC - Distributions System			12,000								12,000					12,000	12,000	
	HVAC - Cooling Tower							60,000				60,000					60,000	60,000	
	HVAC - Unit and Radiant Heaters							60,000				60,000					60,000	60,000	
	HVAC - Heat Pumps		120,000							9,000		129,000					129,000	129,000	
	HVAC - Make up Air Handling Units		65,000									65,000					65,000	65,000	
	Interior Light replacements (LED)		45,000									45,000					45,000	45,000	
	Asphalt Paving						55,000					55,000					55,000	55,000	
	Concrete Walkways, Exterior Stairs		30,000	15,000								45,000					45,000	45,000	
	Passenger Elevator									155,000		155,000					155,000	155,000	
	Fire Safety upgrades									8,000		8,000					8,000	8,000	
<u>82 Erie Street - City Hall Annex</u>																			
	Exterior Envelope Maintenance (Masonry, Windows)					300,000						300,000					300,000	300,000	
	Flat Roof (Modified Bitumen)							190,000				190,000					190,000	190,000	
	Washroom Replacements				78,000							78,000					78,000	78,000	
	Interior Finishes								30,000			30,000					30,000	30,000	
	Asphalt Paving			30,000								30,000					30,000	30,000	
	Flooring (Tile, Carpet, Hardwood)									94,000		94,000					94,000	94,000	
	Passenger Elevator									140,000		140,000					140,000	140,000	
	Painted Walls and Ceilings										16,000	16,000					16,000	16,000	
	Carpet										56,000	56,000					56,000	56,000	
	Domestic Hot Water Heaters										4,500	4,500					4,500	4,500	

Dept Community Services		Division C.4 Facilities - Other City Buildings																			
2024 Project Number	Project Name	2024	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding		
			2025	2026	2027	2028	2029	2030	2031	2032	2033	Federal & Prov Funding		Development Charges	Long Term Debt	(specify) Other	Reserves				
	246 Railway - Storage Building					10,000									10,000					10,000	10,000
	Asphalt Roofing					10,000									10,000					10,000	10,000
	Market Square - City Hall																				
	Furniture Replacements					40,000									40,000					40,000	40,000
	47 Downie - Tourism																				
	Interior Finishes									31,500					31,500					31,500	31,500
	Anne Hathaway Daycare																				
	Exterior Envelope Maintenance (Masonry, Windows)		30,000												30,000					30,000	30,000
	Roofing (Built-up roofing)									150,000					150,000					150,000	150,000
	Interior Finishes									45,000					45,000					45,000	45,000
	Washroom Replacements									10,000					10,000					10,000	10,000
	Interior Light Replacements (LED)		22,000												22,000					22,000	22,000
	Asphalt Paving						41,000								41,000					41,000	41,000
	Playground Fencing										10,000				10,000					10,000	10,000
	Playground Equipment				25,000										25,000					25,000	25,000
	Life Safety upgrades												3,000		3,000					3,000	3,000
	19 St. Andrew - Public Library																				
	Roofing (Built-up roofing)									70,000					70,000					70,000	70,000
	Interior Finishes		10,000				15,000			45,000					70,000					70,000	70,000
	Flooring (Tile, Hardwood, Carpet)		15,000		12,000										40,000					40,000	40,000
	HVAC - Make up Air Handling Units									45,000				6,000	51,000					51,000	51,000
	Heating Boilers						35,000								35,000					35,000	35,000
	Asphalt Paving														40,000					40,000	40,000
	Passenger Elevator		140,000												140,000					140,000	140,000
	Painted Walls and Ceilings														13,000					13,000	13,000
	Carpet														80,000					80,000	80,000
	Concrete Elements														9,000					9,000	9,000
	17 George - Administration of Justice																				
	Exterior Envelope Maintenance (Masonry, Windows)									50,000				15,000	65,000					65,000	65,000
	Roofing (Built-up Roofing)		350,000												350,000					350,000	350,000
	Flooring (Tile, Hardwood, Carpet)		8,000		130,000		30,000			29,000					197,000					197,000	197,000
	Interior Finishes		14,000		12,000					55,000				12,000	93,000					93,000	93,000
	Washroom Replacements		58,000												82,000					82,000	82,000
	Passenger Elevator									165,000					165,000					165,000	165,000
	HVAC - Make up Air Handling Units														42,000					42,000	42,000
	HVAC - Heat Pump														12,000					12,000	12,000
	HVAC - Variable Volume Fans		17,500												17,500					17,500	17,500
	Interior Light Replacements (LED)									64,000					64,000					64,000	64,000
	Exterior Elements (Asphalt, Concrete, Handrails)		75,000												85,000					85,000	85,000

Dept Community Services																		
Division C.4 Facilities - Other City Buildings																		
2024 Project Number	Project Name	Gross Project Costs											Funding Sources					
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Project Costs	Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	Total Funding
	Accessible upgrades (Ramp or Elevator for Police Station Public)		275,000									275,000					275,000	275,000
	Emergency Generator											65,000					65,000	65,000
	Concrete Elements											20,000					20,000	20,000
		\$ 840,000	\$ 4,361,500	\$ 1,727,000	\$ 1,883,000	\$ 706,000	\$ 906,000	\$ 546,500	\$ 238,000	\$ 566,000	\$ 270,500	\$ 12,044,500	\$ -	\$ -	\$ -	\$ -	\$ 12,044,500	\$ 12,044,500
	New Assets Identified in DC Study											-						-
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Other City Buildings
Project Number	C.4.1
Project Name	Justice Building Roof Replacement
Start Date and End Date	May 1, 2024 - October 31, 2024

Brief Project Description:

Replacement of the built-up roofing system at the Administration of Justice Building.

A. Project Justification/Contribution to City Services and Strategic Priorities:

The built-up roofing system requires replacement to ensure the continued level of service of the facility. The existing roofing system has reached its useful life, and to extend the life of the asset, a new roofing system is required.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
4107 Building Repair	490,000	
Total Project Cost	\$ 490,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	490,000	R-R11-FACI
Total Funding	\$ 490,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:

There is no anticipated impact on current or future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

If the existing roofing system is not replaced there is a risk of failure to the roofing system including leaking, and potential damage to the facility structure and interior finishes. This has the potential to result in service disruption of the facility.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year		2044
Projected Replacement Cost	\$	525,000
Projected Useful Life		20 Years
Service Level Impact		Maintain

Explain:

The built-up roofing system has a service life of 20 years.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	N/A	
Windows	N/A	
Lighting	N/A	
Insulation Upgrade	1.4 - 2.6	Roof
Annual GHG emissions reduction (tCO2e)	2.0	
Service Life GHG emissions (tCO2e)	120.0	
Expected Units Fuel Savings (\$)	Unknown	Anticipated to be 10-15% savings

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This budget requests aligns with the recommendations of the Corporate Energy and Emissions Plan, and can contribute to the City's emission reduction targets.

Deep retrofit through a replacement roofing system with thicker insulation will contribute to the building's energy efficiency and enhance the service life of the facility. A new roofing system has the ability to contribute to efficiencies in energy usage that can result in reduced energy and utility costs, and emission reductions of around 2 tCO2e per year.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Other City Buildings
Project Number	C.4.2
Project Name	Justice Building Exterior Elements Repairs
Start Date and End Date	May 1, 2024 - October 31, 2024

Brief Project Description:
 Replacement of the asphalt parking lot, repairs to the concrete elements, and replacement of the handrails and guardrails at the Administration of Justice Building.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The handrails and guardrails, the parking lot asphalt surface, and the concrete elements including stairs, landings, and walkways are in poor condition and require replacement. These repairs and replacements are required to ensure safety for patrons and to eliminate the potential of service disruption.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4107 Building Repair	75,000	
Total Project Cost	\$ 75,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	75,000	R-R11-FACI
Total Funding	\$ 75,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
 Maintenance including cleaning and re-painting of the guardrails and handrails, and surface repairs maintenance of the parking lots and concrete elements will be included in future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 The guardrails, handrails, asphalt surface, and concrete elements are in fair to poor condition, with signs of moderate to severe cracking throughout. Not replacing or repairing these items could result in safety issues and liability concerns.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2034 - 2059
Projected Replacement Cost	\$ 85,000
Projected Useful Life	10 - 35 Years
Service Level Impact	Maintain

Explain:

The service life of the replacement guardrails and handrails is expected to be 35 years. The service life of the asphalt replacement is expected to be 20 years, and the concrete elements repairs is 10 years.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

		<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO ₂ e)	<5 tCO ₂ e	Anticipated embodied emissions (Scope 3)
<small>(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)</small>		

Explain:

This replacement and repair project is not anticipated to have a direct impact on GHG emissions. However, in line with the Corporate Energy and Emissions Plan, it is recommended that materials be selected based on their embodied emissions (such as information from Life Cycle Assessment or Environmental Product Declaration) and those that are available locally, which have the ability to contribute to indirect or Scope 3 GHG emissions.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Facilities - Other City Buildings
Project Number	C.4.3
Project Name	Justice Building Accessible Ramp
Start Date and End Date	May 1, 2024 - October 31, 2024

Brief Project Description:
 Installation of an accessible ramp at the front entrance of the Administration of Justice Building.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 This facility requires repairs and accessible upgrades to the main entrance to maximize the use and extend the life of the facility. This project will reduce barriers to accessibility for members of the public that are utilizing the facility.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4107 Building Repair	275,000	
Total Project Cost	\$ 275,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	275,000	R-R11-FACI
Total Funding	\$ 275,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
 Maintenance costs will be budgeted for repairs, re-painting, licensing, inspections, and certifications.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 The accessible ramp installation will upgrade and improve the overall accessibility of the building in accordance with the Accessibility for Ontarians with Disabilities Act (AODA). If this project is not completed, the barriers for accessibility are still in place and members of the public with disabilities will continue to not be able to fully access the facility.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	Unknown	Dependent on ramp option selected.
Projected Replacement Cost	Unknown	Dependent on ramp option selected.
Projected Useful Life	Unknown	Dependent on ramp option selected.
Service Level Impact	Increase	

Explain:
 The accessible ramp at the front entrance of the building will increase service level by accommodating persons with disabilities to be able to enter the facility without barriers.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) <5 tCO₂e Anticipated embodied emissions (Scope 3)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

The installation of an accessible ramp project is not anticipated to have a direct impact on GHG emissions. However, in line with the Corporate Energy and Emissions Plan, it is recommended that materials be selected based on their embodied emissions (such as information from Life Cycle Assessment and Environmental Product Declaration) and those that are available locally, that can contribute to indirect or Scope 3 GHG emissions.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Community Services**
Division **C.5 Transit**

2024 Project Number	Project Name	Gross Project Costs											Total Project Costs	Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Federal & Prov Funding		Development Charges	Long Term Debt	(specify) Other	Reserves		
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																			
C.5.1	Bus storage/Facility Upgrades	135,840										135,840	135,840				135,840		
C.5.2	Hybrid Buses (HEV)	2,310,000										2,310,000	2,310,000				2,310,000		
C.5.3	Automatic Bus Wash Replacement	367,500										367,500	367,500				367,500		
	Bus Shelters			150,000			150,000	150,000				450,000	450,000				450,000		
	Hybrid Mobility Bus		450,000									450,000	450,000				450,000		
	Transit Garage roof				400,000							400,000	400,000				400,000		
	Transit Roof									350,000		350,000	350,000				350,000		
	40 ft Electrical Bus			1,400,000		1,400,000	1,400,000	1,400,000	1,400,000		2,800,000	9,800,000	9,800,000				9,800,000		
	Electric Mobility Bus				400,000						450,000	1,200,000	1,200,000				1,200,000		
	Hybrid Pick-up Truck (Transit)								75,000			75,000	75,000				75,000		
		\$ 2,813,340	\$ 450,000	\$ 1,550,000	\$ 800,000	\$ 1,400,000	\$ 1,550,000	\$ 1,900,000	\$ 1,475,000	\$ 350,000	\$ 3,250,000	\$ 15,538,340	\$ 15,538,340	\$ -	\$ -	\$ -	\$ -	\$ 15,538,340	
New Assets Identified in DC Study																			
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		

2024 Capital Project Detail Form

Department and Division	Community Services - Transit
Project Number	C.5.1
Project Name	Bus storage/Facility Upgrades
Start Date and End Date	January 1,2024-June, 2024

Brief Project Description:

To update/upgrade an aging Transit storage facility located at 60 Corcoran Street. The facility is approaching 50 years of age and requires many upgrades to remain sustainable to the operations which has not been done for decades. Consultants are also in the process of performing a electrification study and recommendations will be brought forward in relation to Battery storage and charging systems and all additional infrastructure that will potentially require further expansion to the the storage facility. The transition of Mobility buses being low-carbon, possibly electric in the future needs to be considered, as we future-proof the facility and required infrastructure. At present the facility is not climate controlled, and buses are parked in the storage barn next door.

A. Project Justification/Contribution to City Services and Strategic Priorities:

A staggered approach to upgrade aging infrastructure that is getting close to being unrepairable. Eligible project costs of \$1.1 million will funded by Investing in Canada Infrastructure Program (ICIP) in stages over the next few years. This is anticipated to be supplemented by the provincial gas tax to an extent.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
4107 Building Repair	135,840	Roof upgrades and concrete flooring
Total Project Cost	\$ 135,840	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	99,612	Federal/Provincial funding (ICIP)
Federal or Provincial Funding	36,228	Provincial gas tax
Total Funding	\$ 135,840	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$	-
Amount in Future Budget Years	\$	-

Description:

Total funding allocation through ICIP for facility upgrades is \$1,100,000.00

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Dirt floor and leaking roof with no exhaust system creates substantial moisture internally which leads to poor air quality and mold issues.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2024
Projected Replacement Cost	\$ 150,000
Projected Useful Life	20 years
Service Level Impact	Increase

Explain:

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #	
Description (make, model, year)	Storage shed
Current Condition Rating	Poor
Will it extend useful life?	Yes - provide specifics
If yes, amended useful life in years	20 years
Service Level Impact	Maintain

Explain:

none

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) Unknown
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

There are no climate related impacts as a result of this project.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Transit
Project Number	C.5.2
Project Name	Hybrid Buses (HEV)
Start Date and End Date	March 2024-August 2024

Brief Project Description:
The purchase of (two) 2-40' Hybrid electric/diesel Conventional Buses.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Stratford City Council declared a Climate Emergency in 2020. In 2021, through a resolution, this commitment was further bolstered through the establishment of carbon reduction goals of 30% by year 2030 and achieving net-zero by 2050. This capital project will directly align with our decarbonization efforts and overall GHG reduction targets in a phased manner.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
9020 Vehicles	2,310,000	
Total Project Cost	\$ 2,310,000	
	Amount	Additional Detail
Federal or Provincial Funding	1,693,923	ICIP (Investing in Canada Infrastructure) Provincial Gas Tax
Federal or Provincial Funding	616,077	
Total Funding	\$ 2,310,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -	
Amount in Future Budget Years	\$ -	
Description:		

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
This capital project will have a direct impact on city-wide 2030 emission reduction targets, and will adhere to the recommendations of the Corporate Energy and Emissions Plan, and upcoming Community Climate Action Plan.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2035
Projected Replacement Cost	\$ 2,500,000
Projected Useful Life	
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? Yes

Asset ID #
Description (make, model, year) 2008 Nova LFS Bus
Expected Disposal Date Sept 1 2024

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

		<u>Additional Detail</u>
Conventional Fuel Type	Diesel	
Estimated Fuel Consumption (litres)	49,500	
Annual GHG emissions (tCO2e)	132.7	
Service Life GHG Emissions (tCO2e)	1,591.9	
Service Life Fuel Costs (\$)	1,544,400	
Alternative Fuel Type	Hybrid	
Estimated Fuel Consumption (litres)	34,650	
Electricity Consumption (kWh)	-	
Annual GHG emissions (tCO2e)	80.0	
Service Life GHG emissions (tCO2e)	960.5	
Expected Operational Savings (\$)	463,320	
Emissions Reductions achieved (%)	40	

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO2e) (tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	Not applicable for this budget item

Explain:

It is anticipated that switching fleet from a diesel powered vehicle to a hybrid vehicle will result in fuel savings of approximately 20-30% (14,850 litres) and related cost savings (\$463,320). Furthermore, emission reductions of 35-40% or 960.5 tCO2e through service life of the fleet, when switching from diesel to hybrid model. As the technology matures and the market develops, the cost differential for hybrids is likely to decrease and be more competitive in pricing.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Community Services - Transit
Project Number	C.5.3
Project Name	Automatic Bus Wash Replacement
Start Date and End Date	March 2024-June 2024

Brief Project Description:
To replace a 25 year old current bus wash system.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Parts and breakdowns are problematic. Old system with little or no parts available for repairs due to outdated and unsupportive system.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
9030 Equipment	367,500	
Total Project Cost	\$ 367,500	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	269,488	ICIP
Federal or Provincial Funding	98,012	Provincial Gas Tax
Total Funding	\$ 367,500	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -
Amount in Future Budget Years	\$ -

Description:

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Benefit of this project moving forward is to have a fully updated new system. Presently outdated wash system breaks down and parts have to be separately manufactured as these parts are not available any longer. During the winter months buses need to be maintained on the outside to remove salt and sand that can detrimental to bus infrastructure.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2044
Projected Replacement Cost	\$ 500,000
Projected Useful Life	20 years
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?

Yes

Asset ID #

Description (make, model, year)

Automatic Bus wash

Expected Disposal Date

July 16, 2024

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

There are no climate related impacts as a result of this project.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Infrastructure Services**
Division **D.1 Roads and Traffic**

2024 Project Number	Project Name	Gross Project Costs											Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Project Costs	Federal & Prov Funding	Development Charges	Long Term Debt	Other	Reserves	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
D.1.1	Sidewalk Replacements	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	3,000,000					3,000,000	3,000,000
D.1.2	Accessibility Improvements	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000					500,000	500,000
D.1.3	Pedestrian Crossing Improvements	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000					1,000,000	1,000,000
D.1.4	Oakdale Multi-Use Trail	500,000										500,000	500,000					500,000
D.1.5	Downtown Intersection Improvements	1,200,000			500,000							1,700,000	300,000				1,400,000	1,700,000
D.1.6	Bridge Improvements/Renewal	1,200,000	1,200,000	700,000	700,000	700,000	500,000	500,000	500,000	500,000	500,000	7,000,000	6,550,000		450,000		7,000,000	
D.1.7	Signalized Intersection Updates	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000					500,000	500,000
D.1.8	Street Lighting Improvements	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000					500,000	500,000
D.1.10	Lakeside Drive Design and TIS	200,000										200,000					200,000	200,000
D.1.11	Erie Street Active Transportation	300,000										300,000					300,000	300,000
D.1.12	40km per hour signage	240,000										240,000					240,000	240,000
	New Traffic Signals - Lorne and Wright					100,000						100,000					100,000	100,000
	Lakeside Drive Improvements		600,000									600,000	300,000				300,000	600,000
	Erie Street MUT Replacement				1,000,000							1,000,000	1,000,000				1,000,000	1,000,000
	Transportation Master Plan projects			600,000		1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	6,600,000	2,500,000				4,100,000	6,600,000
		\$ 4,190,000	\$ 2,350,000	\$ 1,850,000	\$ 2,750,000	\$ 2,350,000	\$ 2,050,000	\$ 2,050,000	\$ 2,050,000	\$ 2,050,000	\$ 2,050,000	\$ 23,740,000	\$ 11,150,000	\$ -	\$ -	\$ 450,000	\$ 12,140,000	\$ 23,740,000
New Assets Identified in DC Study																		
D.1.9	New Sidewalks, Collector and Arterial	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	2,000,000		1,000,000			1,000,000	2,000,000
	New Traffic Signals - McCarthy and Romeo										150,000	150,000		135,000			15,000	150,000
	New Traffic Signals - Quinlan and Mornington										150,000	150,000		135,000			15,000	150,000
	McCarthy/O'Loane Roundabout					600,000						600,000		600,000				600,000
TOTALS		\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 800,000	\$ 200,000	\$ 200,000	\$ 350,000	\$ 350,000	\$ 2,900,000	\$ -	\$ 1,870,000	\$ -	\$ -	\$ 1,030,000	\$ 2,900,000

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.1
Project Name	Sidewalk Replacements
Start Date and End Date	Apr to Oct - 2024

Brief Project Description:
Annual program for replacement of existing sidewalks in poor condition and elimination of trip hazards, plus an allowance for City contribution towards sidewalk replacement at driveways when requested by private citizens.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Required to meet minimum maintenance standards, and as per Council policy S.2.10 Sidewalk Replacement at Driveways. Increased funding recommended in 2024 as current funding of \$150,000 is unable to keep ahead of legislated requirements.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	300,000	
Total Project Cost	\$ 300,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	300,000	R-R11-PWCA
Total Funding	\$ 300,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	net zero	Annual
Amount in Future Budget Years	net zero	

Description:
Since this is replacing existing infrastructure, no additional operation and maintenance or asset renewal funds are anticipated.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Risk - if not approved, will not comply with council policy, and minimum maintenance standards, resulting in further deterioration of the sidewalk network and possible claims due to injury.

E. Asset Management Plan:
E.1 For a new purchase or construction
Projected Replacement Year
Projected Replacement Cost
Projected Useful Life
Service Level Impact Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

Asset ID # N/A
Description (make, model, year)
Current Condition Rating
Will it extend useful life?
If yes, amended useful life in years
Service Level Impact Maintain

Explain:

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e) <5 tCO2e
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Replacing small sections of deteriorated sidewalk can extend its useful life, without requiring a larger and more energy intensive replacement project. Although these sidewalk upgrades are not anticipated to have a direct impact on GHG emissions reductions, it must be noted that locally available raw material would be more sustainable and lower in emissions as compared to that which is sourced from afar (e.g. outside the province). Similarly recycled content within the material can also indirectly relate to embodied emissions and reduced requirement of virgin materials that require intensive energy to process. Such an approach may result in higher costs than status quo, however will align with circular economy principles.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.2
Project Name	Accessibility Improvements
Start Date and End Date	Apr to Oct - 2024

Brief Project Description:
 Annual program to repair or correct sidewalk areas that do not meet Accessibility for Ontarians with Disabilities Act (AODA), new curb cuts, ramps and parking areas, as identified by Staff and as recommended by Accessibility Advisory Committee (AAC).

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Annual program to repair or correct sidewalk areas that do not meet AODA requirements, new curb cuts, ramps and parking areas, as recommended by AAC.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	50,000	
Total Project Cost	\$ 50,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	50,000	R-R11-PWCA
Total Funding	\$ 50,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	Negligible	

Description:
 Installations are largely located or contained with existing infrastructure. Once installed, a negligible addition to the operating budget is anticipated.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Risk if not approved - Accessibility improvements will not take place, limiting movement for people with accessibility limitations in public spaces.

E. Asset Management Plan:
E.1 For a new purchase or construction
 Projected Replacement Year
 Projected Replacement Cost
 Projected Useful Life 40
 Service Level Impact Increase In terms of accessibility.

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) <5 tCO₂e
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Fossil fueled based equipment is required to prepare and install accessible infrastructure. The nature of these installations is small, and expected to have a low, and indirect impact to the City's GHG emissions.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.3
Project Name	Pedestrian Crossing Improvements
Start Date and End Date	Apr to Oct - 2024

Brief Project Description:
 Installation of pedestrian crossings or other intersection improvements to increase pedestrian safety. Mornington at Delamere and at Waterloo being considered. Other locations, including McCarthy Road at McCarthy Place, being reviewed for proper sightlines.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Priority locations are recommended in the Transportation Master Plan.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	100,000	
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-PWCA
Total Funding	\$ 100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	varies	Annual
Amount in Future Budget Years		

Description:
 Inspection and maintenance to ensure infrastructure is operating correctly, periodic replacement of components as necessary, additional line painting.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Provides safe crossings of major streets for pedestrians. Risk if not approved - safety will continue to be an issue for pedestrians in problematic areas.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	
Projected Replacement Cost	
Projected Useful Life	60
Service Level Impact	Increase

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) <5 tCO₂e
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Fossil fuel based equipment will be required for the preparation and installation of infrastructure, however, improving pedestrian infrastructure supports multi-modal transportation options that are not reliant on traditional fossil fuel based vehicles. Although these sidewalk upgrades are not anticipated to have a direct impact on GHG emissions reductions, it must be noted that locally available raw material would be more sustainable and lower in emissions as compared to that which is source from afar (e.g. outside the province). Similarly recycled content within the material can also indirectly relate to embodied emissions and reduced requirement of virgin materials that require intensive energy to process. Such an approach may result in higher costs than status quo, however will align with circular principles.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.4
Project Name	Oakdale Multi-Use Trail
Start Date and End Date	Summer 2024

Brief Project Description:
Construction of a new multi-use trail along Oakdale Avenue from O'Loane Ave to Forman Ave

A. Project Justification/Contribution to City Services and Strategic Priorities:
Recommended as a quick start priority project in the Transportation Master Plan.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	500,000	
Total Project Cost	\$ 500,000	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	500,000	R-R11-RFED
Total Funding	\$ 500,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years	\$ 1,000	for operations and maintenance

Description:
There would be a slight increase in maintenance and operation costs associated with snow removal, condition inspections and repair.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Provides connection between cycling facilities on O'Loane and Forman Ave, and connections to Stratford District and St. Michael Secondary Schools. If not approved, safe path of travel for active transportation is not available in this area.

E. Asset Management Plan:
E.1 For a new purchase or construction
Projected Replacement Year
Projected Replacement Cost
Projected Useful Life 60
Service Level Impact Increase

Explain:

E.2 For a major repair or rehabilitation of an existing asset
E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Estim. GHG Emissions Reduction (tCO₂e) <5 tCO₂e

Additional Detail

Indirect and long term impact on community wide emissions is expected-should there be an investment in a robust network of active transportation infrastructure.

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Fossil fuel based equipment will be required for the preparation and installation of infrastructure, however, improving pedestrian infrastructure supports multi-modal transportation options that are not reliant on traditional fossil fuel based vehicles.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.5
Project Name	Downtown Intersection Improvements
Start Date and End Date	Jul to Oct - 2024

Brief Project Description:
 New downtown pedestrian crossings and intersection improvements. Locations include Ontario/Church/St. Andrew, Ontario/Erie, and Downie/George intersections.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 These proposed pedestrian crossing locations are recommendations outlined in the 2019 Downtown Transportation Study and 2023 Transportation Master Plan.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	1,000,000	
4040 Consultants	200,000	
Total Project Cost	\$ 1,200,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	900,000	R-R11-PWCA
Federal or Provincial Funding	300,000	Ontario Community Infrastructure Fund
Total Funding	\$ 1,200,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years	\$ 21,000	for operations and maintenance

Description:
 There is an estimated increase in operation and maintenance costs of \$1000 associated with pavement marking and signal and sign reflectivity inspections. Asset renewal contributions is estimated at \$20,000.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Risk if not approved - pedestrian safety will continue to be an issue at problematic intersections

E. Asset Management Plan:
E.1 For a new purchase or construction
 Projected Replacement Year
 Projected Replacement Cost
 Projected Useful Life 25-60 years
 Service Level Impact Increase

Explain:

Once installed, various components will have varying replacement schedules. Asphalt surface and curb replacement is linked to the replacement of the road. Signs and signals would require replacement at the end of their service life.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Fossil fuel based equipment will be required for the preparation and installation of infrastructure, however, improving pedestrian infrastructure supports multi-modal transportation options that are not reliant on traditional fossil fuel based vehicles and will overall help reduce GHG emissions community-wide, and help support an adaptive, resilient city. Selecting low-carbon materials that are locally available would be more sustainable and lower in emissions. Such an approach may result in higher costs than status quo, however will align with circular principles.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.6
Project Name	Bridge Improvements/Renewal
Start Date and End Date	Apr to Oct - 2024

Brief Project Description:

Various bridge, footbridge and culvert repairs as identified in legislated bi-annual bridge inspections.

A. Project Justification/Contribution to City Services and Strategic Priorities:

Recommended work, included in the latest (2023) Ontario Structural Inspection Manual (OSIM) bridge appraisal report, to maintain public safety. Work includes erosion protection for various structures, maintenance and repairs to various footbridges and other structures. Replacement of Perth Line 36 Culvert in 2023, subject to 2000 Boundary Road Agreement with the County.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
4050 Contractors	1,200,000	
Total Project Cost	\$ 1,200,000	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	750,000	R-R11-RFED
Other (specify)	450,000	Perth County is contributing 50% of a Rural Road Standard
Total Funding	\$ 1,200,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:

There may be reduction of maintenance costs once repairs and rehabilitation are completed on various structures.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

If not approved, there will be deterioration of structures, safety and liability concerns, and possible structure collapse. Water crossings help maintain Council objectives of improving accessibility and mobility in the City.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	
Projected Replacement Cost	
Projected Useful Life	20 -65
Service Level Impact	Maintain

Explain:

Work includes replacement of a deteriorated structure.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) <5 tCO₂e

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

The proposed maintenance and repairs prolongs the useful life of the assets, reducing the need for larger replacement that comes with associated energy and subsequent GHG demands. The proposed replacement ensures that surrounding infrastructure will not fail prematurely in the face of extreme weather events as an impact of climate change, and require additional energy and GHG demands to replace at a much inflated cost in the future.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.7
Project Name	Signalized Intersection Updates
Start Date and End Date	Apr to Oct - 2024

Brief Project Description:
 Replacement of wiring, signal heads and other components of signalized intersections, addition of audible signals in various locations.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Signalized intersection infrastructure and wiring in many locations are reaching the end of their service life and must be replaced before they fail. There are also some audible signals that don't meet current Accessibility for Ontarians with Disabilities Act that are proposed to be replaced when intersection infrastructure being updated.

B. Project Financials: (including 1.76% net HST expenses)		Cost	Additional Detail
4050 Contractors		50,000	
Total Project Cost		\$ 50,000	
Funding Sources	Amount	Additional Detail	
Reserve or Reserve Fund (specify)	50,000	R-R11-PWCA	
Total Funding	\$ 50,000		

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:
 Possible decrease in maintenance costs as callouts and repairs will lessen with replacement of aging infrastructure. Future asset replacement is anticipated to be captured under the larger road reconstruction and replacement projects.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Risk - failure of intersection signalization requiring emergency repairs at increased costs.

E. Asset Management Plan:
E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

Asset ID #

Description (make, model, year)

Expected Disposal Date

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) Unknown

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

There is minimal climate related impacts associated with this initiative.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.8
Project Name	Street Lighting Improvements
Start Date and End Date	Year Round - 2024

Brief Project Description:
Annual program to provide for new street lights.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Installation of new street lights in areas with poor lighting and for conversions to energy efficient LED lighting.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	50,000	
Total Project Cost	\$ 50,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	50,000	R-R11-PWCA
Total Funding	\$ 50,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:
There may be a slight increase or decrease depending LED replacement or new installation. Number of lights depends on location and difficulty of installation, which in turn determines the cost of installation.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Risk - no improvement to low lit areas, resulting in no movement towards public safety.

E. Asset Management Plan:

E.1 For a new purchase or construction
 Projected Replacement Year
 Projected Replacement Cost
 Projected Useful Life 30
 Service Level Impact Increase

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) 5-15 tCO₂e
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Ongoing replacement of street lighting to LED options has resulted in the City achieving significant savings in energy consumption (to the tune of 50-70%), reduced GHG emissions generation and lower maintenance. Such conversions speak to the recommendations of the Corporate Energy and Emissions Plan and contribute directly toward our climate goals.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.9
Project Name	New Sidewalks, Collector and Arterial
Start Date and End Date	Apr to Oct - 2024

Brief Project Description:
Installation of new development charge eligible sidewalks at various locations - to be determined

A. Project Justification/Contribution to City Services and Strategic Priorities:
As recommended by the Transportation Master Plan and Council adopted policy, this initiatives seeks to infill missing sidewalk connections to promote pedestrian safety and provide connectivity.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	200,000	
Total Project Cost	\$ 200,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-PWCA
Development Charges	100,000	R-DIS-ROAD
Total Funding	\$ 200,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years	\$ 4,000	for operations and maintenance

Description:
The estimated increase in operation and maintenance associated with snow removal, inspection and repairs is \$1,000 annually. Asset renewal contributions is estimated to be \$3,000 annually.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Risk - pedestrian access and safety will continue to be an issue in various locations, will not align with strategic priority of improving mobility and accessibility

E. Asset Management Plan:
E.1 For a new purchase or construction
Projected Replacement Year
Projected Replacement Cost
Projected Useful Life 40 to 60
Service Level Impact Increase

Explain:

<p>E.2 For a major repair or rehabilitation of an existing asset</p> <p>Asset ID #</p> <p>Description (make, model, year)</p> <p>Current Condition Rating</p> <p>Will it extend useful life?</p> <p>If yes, amended useful life in years</p> <p>Service Level Impact Increase</p>	
<p>Explain:</p>	
<p>E.3 Is there an asset to be disposed? No</p>	
<p>F. Corporate Energy and Emissions Plan:</p>	
<p>F.1 Corporate Fleet</p>	
<p>F.2 Facility Asset</p>	
<p>F.3 Climate Lens for Other Purchases</p>	
<p style="text-align: right;"><u>Additional Detail</u></p>	
<p>Estim. GHG Emissions Reduction (tCO₂e) (tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)</p>	
<p>Explain:</p> <p>Fossil fuel based equipment will be required for the preparation and installation of infrastructure, however, improving pedestrian infrastructure supports multi-modal transportation options that are not reliant on traditional fossil fuel based vehicles and will help reduce GHG emissions community-wide, and support an adaptive, resilient city. Selecting low-carbon materials that are locally available would be more sustainable and lower in emissions. Such an approach may result in higher costs than status quo, however will align with circular principles.</p>	
<p>Note: Procurement Policy shall ensure climate lens and asset management principles are applied.</p>	

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.10
Project Name	Lakeside Drive Design and TIS
Start Date and End Date	2024

Brief Project Description:

Consultant fees for a Transportation Impact Study (TIS) to a) determine how to implement one way traffic on Lakeside Drive and ensure the impacts to traffic movements and intersections in the area are minimized, and b) evaluate the impact of closing Veteran's Drive between Waterloo and Cobourg Streets, and provide a tender ready design for the installation of recommended multi-modal transportation infrastructure.

A. Project Justification/Contribution to City Services and Strategic Priorities:

The conversion of Lakeside Drive to one-way, and the installation of cycle tracks is a priority project of the Transportation Master Plan, as well as previous Council direction. The closure of Veteran's Drive is also recommended in the Transportation Master Plan, and a study is required to determine the impacts for Council consideration.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4040 Consultants	200,000	
Total Project Cost	\$ 200,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	200,000	R-R11-PWCA
Total Funding	\$ 200,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	net zero
Amount in Future Budget Years	

Description:
There is no impact to operating budget unless capital works are proposed as a result of the study, which require consideration and approval from Council.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

A transportation consultant would recommend a design that is based on best practice and critical analysis with the intent to multi-modal optimize flow while providing optimum safety in a public environment.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

It is anticipated that the recommendation from this analysis would include multi-modal options, promoting alternative transportation options to traditional fossil fuel vehicles, and directly implement recommendations of the Community-wide Climate Action Plan for a low-carbon city.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.11
Project Name	Erie Street Active Transportation
Start Date and End Date	Fall 2024

Brief Project Description:
 To convert Erie Street to West Gore Street to a three lane cross section with protected bicycle lanes, update intersection traffic signals, and the installation of pedestrian crossing between St. David Street and Cambria Street.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Priority project as recommended in the Transportation Master Plan, Erie Street should be converted to a three lane configuration (similar to Huron Street) with protected bicycle lanes to maximize, pedestrian, cycling and vehicular safety. Subject to obtaining necessary approvals from MTO.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	300,000	
Total Project Cost	\$ 300,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	300,000	R-R11-PWCA
Total Funding	\$ 300,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	\$ 5,000	Annually

Description:
 There is an anticipated minor increase in maintenance costs for additional pedestrian crossing. There is an estimated increase in annual contributions for asset renewal.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Provides safe cycling facility and connection to downtown. If not approved, safe path of travel for active transportation is not available for this area.

E. Asset Management Plan:
E.1 For a new purchase or construction
 Projected Replacement Year
 Projected Replacement Cost
 Projected Useful Life 25-60
 Service Level Impact Increase

Explain:

Road reconstruction upgrades would be replaced when road surface is replaced, while signals and signs would have a shorter service life.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) <5 tCO₂e
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Fossil fuel based equipment will be required for the preparation and installation of infrastructure, however, improving pedestrian, cycling and general road safety infrastructure supports multi-modal transportation options that are not reliant on traditional fossil fuel based vehicles. Investing in active transportation options will result in reduced community wide GHG emissions from mode share and the switch from personal vehicles to alternative modes.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.1.12
Project Name	40km per hour signage
Start Date and End Date	Year Round - 2024

Brief Project Description:
 Installation of new speed signs throughout the City to implement the proposed 40km per hour speed limit.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 As recommended by the Transportation Master Plan, and as per staff recommendation in October 25, 2023, ITS Sub-Committee report.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	240,000	
Total Project Cost	\$ 240,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	240,000	R-R11-PWCA
Total Funding	\$ 240,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	\$ 11,000	Annually

Description:
 An estimated \$5,000 is anticipated in additional operation and maintenance associated with reflectivity inspection and replacement of damaged signs. An estimated \$6,000 each year is recommended to cover asset renewal.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 City-wide 40 km per hour helps create safer streets through driver awareness and behavioural change. This initiative would increase public safety and reduce risk of liability from improved road user behaviour.

E. Asset Management Plan:
E.1 For a new purchase or construction
 Projected Replacement Year
 Projected Replacement Cost
 Projected Useful Life 25
 Service Level Impact Increase

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

Asset ID #

Description (make, model, year)

Expected Disposal Date

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Improved driver behaviour indirectly improves gas mileage and overall may help slightly reduce the community GHG consumption. At this time these emissions are not tracked by the City, however such a reduction in community wide fossil fuel usage supports the recommendations of the Community Climate Action Plan.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Infrastructure Services**
Division **D.2 Storm**

2024 Project Number	Project Name	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding		
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves			
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																				
D.2.1	Storm Water Management Facility Maintenance	250,000		250,000		250,000		250,000			250,000								1,250,000	1,250,000
D.2.2	Lake Victoria Outfall Replacements - 2023 Carry Forward	100,000		700,000		700,000													1,500,000	1,500,000
D.2.3	Roadhouse Municipal Drain Improvement	2,000,000	2,000,000												4,000,000				4,000,000	4,000,000
	Lorne Trunk Storm Sewer Rehabilitation		1,000,000	1,000,000															2,000,000	2,000,000
	Lake Victoria Sediment Removal			400,000															400,000	400,000
		\$ 2,350,000	\$ 3,000,000	\$ 2,350,000	\$ -	\$ 950,000	\$ -	\$ 250,000	\$ -	\$ 250,000	\$ -	\$ 9,150,000	\$ 4,000,000	\$ -	\$ -	\$ -	\$ -	\$ 5,150,000	\$ 9,150,000	
New Assets Identified in DC Study																				
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

2024 Capital Project Detail Form

Department and Division	IS - Storm
Project Number	D.2.1
Project Name	Storm Water Management Facility Maintenance
Start Date and End Date	Spring to Fall 2024

Brief Project Description:

Maintenance and repair of major components of various Storm Ponds.

A. Project Justification/Contribution to City Services and Strategic Priorities:

In order for stormwater management facilities to operate as intended, they need periodic maintenance. Ponds to be prioritized according to results of swm facility reviews to be completed early 2024.

B. Project Financials:

(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	250,000	
Total Project Cost	\$ 250,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	250,000	R-R11-STRM
Total Funding	\$ 250,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Benefit - maintain compliance with MECP Environmental Compliance Approvals; Risk - deteriorating water quality, possible flooding, non-compliance with MECP ECA

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other PurchasesAdditional Detail

Estim. GHG Emissions Reduction (tCO₂e)

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

No direct GHG emissions impact are anticipated as a result of this project.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Storm
Project Number	D.2.2
Project Name	Lake Victoria Outfall Replacements - 2023 Carry Forward
Start Date and End Date	Spring to Fall 2024

Brief Project Description:
 There are over 50 storm sewers that outlet to Lake Victoria. A consultant will be retained to evaluate the condition of the outlets and recommend rehabilitation/replacement as necessary. Design work scheduled for 2024, with construction planned in two phases between 2026-2028

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Failing outlets will result in erosion, blocked pipes, and increased sedimentation in Lake Victoria. Upgrades and proper maintenance is required to maintain service and avoid costs associated with last minute or emergency repairs.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4040 Consultants	100,000	
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-STRM
Total Funding	\$ 100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	N/A	

Description:
 Impact on budgets dependent on resulting design and future capital project that would be subject to Council consideration and approval.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 The risk of not proceeding is not being prepared for a potential critical failure, resulting in elevated repair costs for last minute or emergency work.

E. Asset Management Plan:
E.1 For a new purchase or construction
E.2 For a major repair or rehabilitation of an existing asset
E.3 Is there an asset to be disposed? No
 Asset ID #
 Description (make, model, year)
 Expected Disposal Date

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	<u>Additional Detail</u>
Mechanical System		
Windows		
Lighting		
Insulation Upgrade		
Annual GHG emissions reduction (tCO2e)	6.5	
Service Life GHG emissions (tCO2e)	390.0	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Last minute or emergency repairs often require more work to complete a replacement as the work expands beyond what would have otherwise been done. Additional work would result in a slight increased use of fossil fuel based equipment required to complete the work. A proactive approach would also translate to building in adaptability and resiliency of public assets in the face of extreme weather events as a result of climate change.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Storm
Project Number	D.2.3
Project Name	Roadhouse Municipal Drain Improvement
Start Date and End Date	Summer 2024 to Fall 2025

Brief Project Description:
 Replacement of deteriorating gabion basket retaining walls, in accordance with the Drainage Act. Dependent on the timing of the Drainage Act process and the finalization of the preferred alternative for rehabilitation option, construction is expected to begin in 2024 and finish in 2025.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Replacement of deteriorating gabion basket retaining walls, in accordance with the Drainage Act. The gabion basket walls have been deteriorating over the last 10 years, and the walls have been temporarily braced to ensure failure does not occur. The walls must be replaced in order to protect adjacent properties and buildings, and maintain a major storm drainage channel for the north end of the City. The drain is considered City storm infrastructure with very little ability to recover funds.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	2,000,000	
Total Project Cost	\$ 2,000,000	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	2,000,000	R-R11-RFED
Total Funding	\$ 2,000,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	\$ 30,000	Annually

Description:
 An estimated \$3,000 would be required for periodic operation and maintenance of the drain. An estimated \$27,000 annual is anticipated for asset renewal.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Temporary bracing measures may fail, resulting in significant damages to neighbouring property. If this critical storm infrastructure fails it may cause flooding upstream in a storm event.

E. Asset Management Plan:
E.1 For a new purchase or construction
 Projected Replacement Year
 Projected Replacement Cost
 Projected Useful Life 75
 Service Level Impact Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Last minute or emergency repairs often require more work to complete a replacement as the work expands beyond what would have otherwise been done. Destruction of neighbouring property could require significant rebuilding. Additional work could result in a moderate increase in use of fossil fuel based equipment and related materials required to complete the work.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Infrastructure Services**
Division **D.3 Water**

2024 Project Number	Project Name	Gross Project Costs											Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Project Costs	Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
D.3.1	Miscellaneous Water Repairs	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000					1,000,000	1,000,000
D.3.2	Mechanical Upgrades to Wells	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000					1,000,000	1,000,000
D.3.3	Bulk Water Station Upgrade	50,000										50,000					50,000	50,000
D.3.5	Well Chlorination System Upgrades	100,000	50,000	50,000	50,000	50,000	50,000					350,000					350,000	350,000
D.3.6	Glendon/Neal Watermain Connection Replacement	150,000										150,000					150,000	150,000
												-						-
		\$ 500,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 250,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 200,000	\$ 2,550,000	\$ -	\$ -	\$ -	\$ -	\$ 2,550,000	\$ 2,550,000
New Assets Identified in DC Study																		
D.3.4	O'Loane Watermain at Perth Line 36	250,000										250,000		250,000				250,000
TOTALS		\$ 250,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 250,000	\$ -	\$ 250,000	\$ -	\$ -	\$ -	\$ 250,000

2024 Capital Project Detail Form

Department and Division	IS - Water
Project Number	D.3.1
Project Name	Miscellaneous Water Repairs
Start Date and End Date	Year Round 2024

Brief Project Description:

A contingency for unplanned or emergency repairs required in the water supply or distribution system where immediate or timely attention is required.

A. Project Justification/Contribution to City Services and Strategic Priorities:

Many different unplanned events can take place over the course of the year relating to water supply and distribution such as failed watermains, well pump failures, abnormal service connections and hydrant and valve failure. This contingency will ensure that continuous water distribution and safe drinking water is provided should any emergency or abnormal condition be identified and require immediate remediation.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
4050 Contractors	100,000	
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-WATR
Total Funding	\$ 100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	Negligible
Amount in Future Budget Years	

Description:

The small failed and repaired sections may see a slight decrease in operation and maintenance requirements.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

A risk exists if there is a lack of contingency funding should an unusual finding occur that was not previously identified, and requires an immediate response. This includes possible compromised watermains (poor condition at time of repair), lead removal on a watermain (lead poured joints), or any other finding that could put the system at risk. Resulting in elevated cost and prolonged disruption to the public as required to ensure safe drinking water is maintained.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	
Projected Replacement Cost	
Projected Useful Life	
Service Level Impact	Maintain

Explain:

Small sections of replaced infrastructure would likely be replaced again when the entire section of infrastructure is renewed.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Water infrastructure related projects are not directly related to the Corporate Energy and Emissions Plan, though resilient infrastructure will build into community assets and overall climate adaptation elements. This budget item is largely related to aging infrastructure that is more prone to failure. Last minute and emergency repairs tend to expend more resources as the scope of work is greater than what would have otherwise been undertaken in planned proactive approach.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Water
Project Number	D.3.2
Project Name	Mechanical Upgrades to Wells
Start Date and End Date	April to October 2024

Brief Project Description:
 Various repairs and maintenance to wells in accordance to the Well Monitoring Study completed in 2019. Examples for this are valve, piping, miltronics or instrumentation replacement or upgrade.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Continuous improvement to the water treatment and supply facilities in the City are required in order to maintain the City's water supply resources and the distribution of potable water that we provide to the public.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	100,000	
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-WATR
Total Funding	\$ 100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
 As this is a replacement of existing infrastructure, no additional operation and maintenance or asset renewal is anticipated.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Continuous and reactive improvements to the well supply system ensure long term sustainability to the drinking water system.

E. Asset Management Plan:
E.1 For a new purchase or construction
 Projected Replacement Year
 Projected Replacement Cost
 Projected Useful Life 25
 Service Level Impact Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #

Description (make, model, year)

Current Condition Rating

Will it extend useful life?

If yes, amended useful life in years 25

Service Level Impact Maintain

Explain:

The proposed work is largely related to the replacement of similar existing infrastructure, resulting in minimal anticipated change to future operating budgets.

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) Unknown

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

There are no direct impacts to corporate GHG emissions identified as a result of this project.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Water
Project Number	D.3.3
Project Name	Bulk Water Station Upgrade
Start Date and End Date	Summer 2024

Brief Project Description:
Upgrade of the existing bulk water supply station located at the Romeo Control Centre.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Upgrading this dated and inefficient station will increase revenue within the City's water reserves and result in much less staff admin time updating the station and maintaining customer accounts.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	10,000	Installation and setup Equipment
3050 Materials	40,000	
Total Project Cost	\$ 50,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	50,000	R-R11-WATR
Total Funding	\$ 50,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 50,000	
Amount in Future Budget Years		

Description:

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
The old key mechanism will be replaced with a card lock system. The existing system allows for 30 accounts. A card station allows for unlimited customers. Not upgrading will limit to the amount of bulk water customers which will impact revenue.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #	N/A
Description (make, model, year)	Gasboy (date unknown)
Current Condition Rating	Poor
Will it extend useful life?	Yes - provide specifics
If yes, amended useful life in years	30
Service Level Impact	Increase

Explain:	
The station upgrade removes the need for key and lock components which require maintenance. Less physical maintenance and the removal of key use will decrease the "wear and tear" of the station.	
E.3 Is there an asset to be disposed?	Yes
Asset ID #	Unknown
Description (make, model, year)	Gasboy (Date Unknown)
Expected Disposal Date	July 1st, 2024
F. Corporate Energy and Emissions Plan:	
F.1 Corporate Fleet	
F.2 Facility Asset	
F.3 Climate Lens for Other Purchases	
	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO2e)	Unknown
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	
Explain:	
This budget item is not directly related to the Corporate Energy and Emissions Plan and GHG implications. Negligible impacts to climate goals are anticipated with this initiative.	
Note: Procurement Policy shall ensure climate lens and asset management principles are applied.	

2024 Capital Project Detail Form

Department and Division	IS - Water
Project Number	D.3.4
Project Name	O'Loane Watermain at Perth Line 36
Start Date and End Date	Spring-Winter 2024

Brief Project Description:
 The developer of the Countryside Estates Subdivision has completed the installation of watermain on O'Loane Avenue, for which they are entitled to reimbursement of oversizing costs, as per our current Development Charges study. This is the repayment to the Developer.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 This project is included in our Development Charges, and is necessary to provide sufficient water servicing for future developments.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
3050 Materials	250,000	
Total Project Cost	\$ 250,000	
Funding Sources	Amount	Additional Detail
Development Charges	250,000	R-DIS-WATS
Total Funding	\$ 250,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	\$ 4,000	Annually

Description:
 There is a slight increase in estimated costs to operate and maintain this new section of watermain. The anticipated increase in asset renewal contribution is \$4,000 annually.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Council approved this work through related Subdivision Agreements.

E. Asset Management Plan:

E.1 For a new purchase or construction
 Projected Replacement Year
 Projected Replacement Cost
 Projected Useful Life 75
 Service Level Impact Increase

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

		<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO ₂ e)	Unknown	Not applicable
(tCO ₂ e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)		

Explain:

Though the installation of this watermain will improve safety and support growth in the north end of the City, it will require additional (largely electrical) energy demands to support this service. As these energy demands are expected to be powered by electricity or hydro, this project will result in minimal emissions increase, as hydro is a comparatively low GHG generating fuel source as compared to other fossil fuel.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Water
Project Number	D.3.5
Project Name	Well Chlorination System Upgrades
Start Date and End Date	Summer/Fall 2024

Brief Project Description:
Replacement of all gas chlorination system components at the Romeo Control Centre in 2024.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The Romeo Control Centre is the most critical facility in the water system. Completing upgrades to the gas chlorination system as a preventative measure will help ensure uninterrupted water service for residents.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
3050 Materials	75,000	Equipment Purchases
4050 Contractors	25,000	Contractor Installation
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-WATR
Total Funding	\$ 100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	Negligible	

Description:
Since the proposed work would be replacing existing infrastructure, minimal change to existing operation and maintenance is anticipated.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
This project will ensure long term sustainability and uninterrupted service to the drinking water system. If the system is not upgraded, water service from this critical facility may be impacted if the chlorination system fails.

E. Asset Management Plan:
E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #	350700005
Description (make, model, year)	
Current Condition Rating	Poor
Will it extend useful life?	Yes - provide specifics
If yes, amended useful life in years	20 Years
Service Level Impact	Maintain

Explain:

Replacement of the existing poor condition gas chlorination system scales, piping, pump, manifold and valves will extend the useful life of the chlorination system and ensure raw water disinfection requirements are met. Note the Asset ID used is the Romeo Pumping station, the chlorination system itself does not have an ID.

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Estim. GHG Emissions Reduction (tCO ₂ e)	<5 tCO ₂ e	<u>Additional Detail</u> GHG emission reduction from selecting more efficient equipment in new assets.
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(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

The new assets are anticipated to use energy more efficiently, resulting in lower energy demands than the previous units. This will result in an energy efficient system and resilient infrastructure, consistent with the recommendations of the Corporate Energy and Emissions Plan, and community-wide strategies for adaptation.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Water
Project Number	D.3.6
Project Name	Glendon/Neal Watermain Connection Replacement
Start Date and End Date	Summer 2024

Brief Project Description:
 Relocation of the 300mm watermain that connects Neal Ave to Glendon Ave. This main will be installed via drilling under the City walkway that connects the two streets. The existing watermain is currently not located on the City right of way.

A. Project Justification/Contribution to City Services and Strategic Priorities:

This watermain has been offline since early 2023. Water modelling shows that the main may be offline temporarily but must be reinstated to ensure proper hydraulic flow in the water distribution network to ensure proper supply to residents.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
4050 Contractors	150,000	
Total Project Cost	\$ 150,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	150,000	R-R11-WATR
Total Funding	\$ 150,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	Negligible	

Description:
 Since the asset is effectively a replacement, minimal change is anticipated to the operating budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Relocation of this watermain will have it on City property and not within private backyards. This allows for proper maintenance access for staff. Failure to reinstate this watermain may cause hydraulic issues within the distribution network.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #	350101023
Description (make, model, year)	Cast Iron, 1963
Current Condition Rating	Poor
Will it extend useful life?	Yes - provide specifics
If yes, amended useful life in years	75 Years
Service Level Impact	Maintain

Explain:

Replacement and relocation of this watermain will allow for proper access for staff to perform maintenance which will extend its useful life.

E.3 Is there an asset to be disposed?

Yes

Asset ID #	350101023
Description (make, model, year)	Cast Iron, 1963
Expected Disposal Date	July 1st, 2024

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) Unknown
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

The proposed trenchless installation will result in minimal energy requirements to facilitate the installation.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Infrastructure Services**
Division **D.4 Miscellaneous**

2024 Project Number	Project Name	Gross Project Costs											Funding Sources						
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Project Costs	Federal & Prov Funding	Development Charges	Long Term Debt	Homeowners Other	Reserves	Total Funding	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																			
D.4.1	Public Works Facility Upgrades (Carry forward Excess Soil Transfer Site)	200,000		300,000								200,000 300,000					200,000 300,000	200,000 300,000	
		\$ 200,000	\$ -	\$ 300,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ -	\$ -	\$ -	\$ -	\$ 500,000	\$ 500,000	
New Assets Identified in DC Study																			
D.4.2	New Public Works Facility	250,000	20,000,000				15,000,000					15,000,000	50,250,000		6,200,000			44,050,000	50,250,000
TOTALS		\$ 250,000	\$ 20,000,000	\$ -	\$ -	\$ -	\$ 15,000,000	\$ -	\$ -	\$ -	\$ 15,000,000	\$ 50,250,000	\$ -	\$ 6,200,000	\$ -	\$ -	\$ 44,050,000	\$ 50,250,000	

2024 Capital Project Detail Form

Department and Division	IS - Roads and Traffic
Project Number	D.4.1
Project Name	Public Works Facility Upgrades
Start Date and End Date	Summer 2024

Brief Project Description:
 Carryforward work from 2023. Replacement windows, doors, and asphalt at varied locations throughout the facility.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 These projects will ensure that the Public Works facility continues to provide timely maintenance for equipment by updating our overhead door access to the facility.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4107 Building Repair	200,000	
Total Project Cost	\$ 200,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	200,000	PWCA
Total Funding	\$ 200,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	Negligible	

Description:
 Infrastructure installations are largely replacements, with minimal anticipated impact on future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Safety concerns for overhead doors. If the motors stop working, it will affect service levels for operations and repairs in the shop.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

The proposed work is anticipated to require equipment and material that rely on fossil fuels, resulting in a small to moderate increase in corporate GHG emissions.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Miscellaneous
Project Number	D.4.2
Project Name	New Public Works Facility
Start Date and End Date	January 1 2024 - July 2025

Brief Project Description:
Detailed design and tender preparation for a new public works facility.

A. Project Justification/Contribution to City Services and Strategic Priorities:

The existing Public Works yard layout reduces productivity and many of the facilities have surpassed their expected service life. Office and work space is undersized to meet modern services provided by the division.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
--	-------------	--------------------------

4040 Consultants	250,000	
Total Project Cost	\$ 250,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	50,000	R-R11-PWCA
	200,000	R-DIS-OTRN
Total Funding	\$ 250,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		
Description:		

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
The new facility would include other divisions and departments as needed. Housing resources and staff under on facility will improve communication and optimize existing resources.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	1.5 - 4.5	50% efficiency
Windows	0.6 - 1.2	Triple Glazed
Lighting	0.4 - 0.8	LED
Insulation Upgrade	1.4 - 2.6	Roof
Annual GHG emissions reduction (tCO2e)	6.5	
Service Life GHG emissions (tCO2e)	390.0	
Expected Units Fuel Savings (\$)	15-30% Savings	

F.3 Climate Lens for Other Purchases

	Additional Detail
Estim. GHG Emissions Reduction (tCO2e)	Should a near zero facility be approved, it is anticipated to generate reduced emissions during operations, in comparison to the current facility.
	5-15 tCO2e
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

A new building would meet or exceed the Ontario Building Code, and align with the recommendations of the Corporate Energy and Emissions Plan to commission new City builds as most energy efficient. A near net zero would be the anticipated approach to design and development. Options and pricing will be conveyed as part of detailed design.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Infrastructure Services**
Division **D.5 Sanitary**

2024 Project Number	Project Name	Gross Project Costs											Funding Sources					
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Project Costs	Federal & Prov Funding	Development Charges	Long Term Debt	Developer Contribution	Reserves	Total Funding
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
D.5.1	Water Pollution Control Plant Improvements	380,000	380,000	380,000	380,000	385,000	385,000	385,000	385,000	390,000	390,000	3,840,000					3,840,000	3,840,000
D.5.2	Basement Isolation	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	300,000					300,000	300,000
D.5.3	Miscellaneous Sanitary Repairs	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	30,000	300,000					300,000	300,000
D.5.4	Sanitary Relining Subsidy	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	500,000					500,000	500,000
D.5.5	Pumping Station Upgrades	150,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	1,050,000					1,050,000	1,050,000
	WPCP Grit Removal System				850,000							850,000					850,000	850,000
		\$ 640,000	\$ 590,000	\$ 590,000	\$ 1,440,000	\$ 595,000	\$ 595,000	\$ 595,000	\$ 595,000	\$ 600,000	\$ 600,000	\$ 6,840,000	\$ -	\$ -	\$ -	\$ -	\$ 6,840,000	\$ 6,840,000
New Assets Identified in DC Study																		
D.5.6	O'Loane Ave Trunk Sanitary Phase 1	300,000	2,290,000	2,000,000								4,590,000		4,406,400			183,600	4,590,000
	Quinlan Sanitary Pumping Station and Forcemain, Phase 2						400,000					400,000		400,000				400,000
	Tertiary Filter Upgrade WPCP						290,000	2,560,000				2,850,000		2,850,000				2,850,000
	Ontario St sanitary upgrade east of CHMeier		800,000									800,000		536,000			264,000	800,000
	Huron Street Sanitary extension west								1,100,000			1,100,000		935,000			165,000	1,100,000
	Onatrio Street Sanitary extension			400,000								400,000		125,000	\$ 275,000			400,000
TOTALS		\$ 300,000	\$ 3,090,000	\$ 2,400,000	\$ -	\$ -	\$ 690,000	\$ 2,560,000	\$ 1,100,000	\$ -	\$ -	\$ 10,140,000	\$ -	\$ 9,252,400	\$ -	\$ 275,000	\$ 612,600	\$ 10,140,000

2024 Capital Project Detail Form

Department and Division	IS - Sanitary
Project Number	D.5.1
Project Name	Water Pollution Control Plant Improvements
Start Date and End Date	Year Round 2024

Brief Project Description:
 An allowance for various capital improvements to the Water Pollution Control Plant (WPCP) as recommended and required by the City's operating authority Ontario Clean Water Agency (OCWA).

A. Project Justification/Contribution to City Services and Strategic Priorities:

OCWA submits an annual Major Maintenance Recommendations report to the City which identifies the capital works projected for the upcoming year as well as the following 7 years. This report is reviewed by the Manager of ES and Director of IS. Continuous improvements and upgrades of the WPCP ensures the integrity of the treatment plant and the protection of the environment and health and safety of staff and the public.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	380,000	
Total Project Cost	\$ 380,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	380,000	R-R11-WWTR
Total Funding	\$ 380,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	
Amount in Future Budget Years	Negligible

Description:
 Capital improvements are largely related to the replacement of existing infrastructure, resulting in minimal impact to future operating budgets.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Annual amounts are based on the 2014 needs report that listed more than \$8,500,000 recommended upgrades. The upgrades include health and safety, electrical, process and civil upgrades. They are determined yearly based on current conditions and priorities. Failure to continue to improve or upgrade could compromise safety and process related activities with increased risk to the public and staff. Repairs if not proactively addressed may be much more costly if dealt with reactively.

E. Asset Management Plan:
E.1 For a new purchase or construction
E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Replacing aging infrastructure generally results in slight reduction in overall energy demand and speaks to the recommendations of the Community Wide Climate Action Plan to build adaptive, resilient infrastructure.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Sanitary
Project Number	D.5.2
Project Name	Basement Isolation
Start Date and End Date	Year Round 2024

Brief Project Description:
 A City program intended to provide subsidy to eligible properties in accordance with the Basement Isolation and Sump Pump Subsidy program.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Storm events in the early 2000's have identified many properties in the City that have a cross connection between their storm and sanitary plumbing. This program aligns with the City's priority of optimizing Stratford's physical assets and resources.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
Other (specify)	30,000	Rebates
Total Project Cost	\$ 30,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	30,000	R-R11-WWTR
Total Funding	\$ 30,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	Negligible
Amount in Future Budget Years	

Description:
 This is a reoccurring annual capital budget item until as long as the program is available to residents.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 The benefits of homeowner disconnections from the storm/sanitary cross connections will offset any subsidy rebates because of the reduction of storm water having to be treated during storm events at the Water Pollution Control Plant.

E. Asset Management Plan:
E.1 For a new purchase or construction
E.2 For a major repair or rehabilitation of an existing asset
E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Supporting protective installation will reduce significant loss in flooding events, and associated overall energy demands required to address impacts and replaced losses. This budget item is congruent with the recommendations of the Community Climate Action Plan to build resilient infrastructure in the face of significant weather events.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Sanitary
Project Number	D.5.3
Project Name	Miscellaneous Sanitary Repairs
Start Date and End Date	Year Round 2024

Brief Project Description:
 A contingency for unplanned or emergency repairs required in the wastewater collection system where immediate or timely attention is necessary.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 This contingency will ensure that continuous wastewater collection is provided to residents should any emergency or abnormal condition be identified and require immediate remediation.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
3050 Materials	30,000	
Total Project Cost	\$ 30,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	30,000	R-R11-WWTR
Total Funding	\$ 30,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
 Minimal impact to future operating budgets are anticipated as this is largely replacing existing infrastructure.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Lack of contingency funding should an unusual finding occur that will require a timely or immediate response, could put the operation of the wastewater collection system at risk or cause service interruptions to residents.

E. Asset Management Plan:
E.1 For a new purchase or construction
E.2 For a major repair or rehabilitation of an existing asset
E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Unplanned repairs tend to be larger in scale than planned repairs, resulting in increased overall energy demands to fix the larger than needed repair. Taking a proactive planned approach to remedy deficiencies will support building resilient infrastructure city-wide.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Sanitary
Project Number	D.5.4
Project Name	Sanitary Relining Subsidy
Start Date and End Date	Year Round 2024

Brief Project Description:
 Funding for the sanitary lateral subsidy to homeowners who reline their property sewer lines.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 As part of the sewer subsidy program, this rebate is for property owners who reline and rehabilitate their sewer laterals rather than open cut, excavate and replace the laterals.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
3050 Materials	50,000	
Total Project Cost	\$ 50,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	50,000	R-R11-WWTR
Total Funding	\$ 50,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	Negligible
Amount in Future Budget Years	

Description:
 This is will be a reoccurring annual capital item as long as the subsidy program is in place.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Due to cost and low impact to residents, this has become the most common method of pipe rehabilitation. It is beneficial for the City to have property owners reline instead of open cut since it uses far less city resources and funds.

E. Asset Management Plan:
E.1 For a new purchase or construction
E.2 For a major repair or rehabilitation of an existing asset
E.3 Is there an asset to be disposed? No
F. Corporate Energy and Emissions Plan:
F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

		<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO ₂ e)	Unknown	More aligned with climate adaptation than mitigation strategies.
(tCO ₂ e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)		

Explain:
Supporting sewer lining activities will result in less infiltration and inflow to the City's sewer system and overall reduce the volume of wastewater and associated energy demands, needing treatment by the City's Water Pollution Control Plant.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Sanitary
Project Number	D.5.5
Project Name	Pumping Station Upgrades
Start Date and End Date	Apr to Oct - 2024

Brief Project Description:
Upgrades to pumping stations as per the 2015 Pumping Stations Condition Assessment Report.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Continuous improvements and upgrades to the City's wastewater pumping infrastructure ensures proper operation of the pump stations, the protection of the environment, and health and safety of staff and the public.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	150,000	
Total Project Cost	\$ 150,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	150,000	R-R11-WWTR
Total Funding	\$ 150,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 150,000	
Amount in Future Budget Years	\$ 100,000	

Description:
In 2024 staff are looking to install a permanent generator to the Taylor Pumping Station. This budget item is typically \$100,000 however this year's amount reflects the generator installation that is planned.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
The upgrades recommended in 2015 include health and safety, electrical and process upgrades. Failure to continue to improve/upgrade could compromise safety and process related activities with increased risk to the public and staff.

E. Asset Management Plan:
E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This budget item aligns with the recommendations of the Corporate Energy and Emissions Plan. New efficient equipment generally results in a slight reduction in annual energy consumption.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Sanitary
Project Number	D.5.6
Project Name	O'Loane Ave Trunk Sanitary Phase 1
Start Date and End Date	Apr to Nov - 2024

Brief Project Description:

Design of the O'Loane Avenue sanitary trunk sewer from south of Huron Street to Galt Street.

A. Project Justification/Contribution to City Services and Strategic Priorities:

There is a significant developable residential land in the northwest end of the City. The main deterrent from the development community to proceed further is the need to have a trunk sewer available for their developments.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
4040 Consultants	300,000	
Total Project Cost	\$ 300,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	12,000	R-R11-WWTR
Development Charges	288,000	R-DIS-WWTR
Total Funding	\$ 300,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:

No impact to future operating budget until Council considers for approval the preferred design.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Not proceeding with this project may deter significant developments in Stratford from proceeding in a timely manner.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Trunk sewer would permit significant growth, which comes at additional energy demands to service the City's anticipated growth and new residents. This budget item is not directly related to the recommendations of the Corporate Energy and Emissions Plan.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept Infrastructure Services
Division D.6 Linear Infrastructure

2024 Project Number	Project Name	Gross Project Costs										Total Project Costs	Funding Sources				
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		Federal & Prov Funding	Development Charges	Long Term Debt	Developer/ LI Charges	Reserves
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																	
D.6.1	Asphalt Resurfacing	2,250,000	2,250,000	2,250,000	2,250,000	2,250,000	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000	23,750,000	20,825,000			2,925,000	23,750,000
D.6.2	Sewer Relining	750,000	800,000	800,000	900,000	900,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	9,150,000			9,150,000	9,150,000	
D.6.3	Watermain Relining	700,000	750,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	600,000	6,250,000			6,250,000	6,250,000	
D.6.4	Albert Street Reconstruction 2024	4,100,000										4,100,000	1,740,000			2,360,000	4,100,000
D.6.5	Moderwell Street - Local Improvement	1,200,000										1,200,000		95,000		1,105,000	1,200,000
D.6.6	Avondale Avenue - Hibernia to Cemetery	4,100,000										4,100,000	660,000			3,440,000	4,100,000
D.6.7	2023 Carryover - Albert Street Reconstruction	1,925,000										1,925,000				1,925,000	1,925,000
D.6.8	2023 Carryover - Resurfacing-Ontario/Erie	2,100,000										2,100,000	1,890,000			210,000	2,100,000
2025	Queen Street- Regent to Brunswick Lorne Downie Intersection Huron Street Ph2 - John to Matilda		3,213,000 1,200,000 5,100,000									3,213,000 1,200,000 5,100,000	2,350,000 3,000,000			863,000 1,200,000 2,100,000	3,213,000 1,200,000 5,100,000
2026	Daly Ave with Birmingham to Worsley Brunswick Street - Queen to King North Street - Lakeside to Water Connecting Link Project - Ontario DOWNTOWN			2,700,000 2,270,000 900,000 2,500,000								2,700,000 2,270,000 900,000 2,500,000	2,700,000 1,575,000			 900,000 925,000	2,700,000 2,270,000 900,000 2,500,000
2027	Mowat Street - West Gore to Brydges Mercer Street - Caledonia to Britannia Perth Street - Downie to Taylor				2,910,000 1,700,000 1,950,000							2,910,000 1,700,000 1,950,000	1,800,000			1,110,000 1,700,000 1,950,000	2,910,000 1,700,000 1,950,000
2028	Queen Street - Brunswick to Water McDonald Street - Willow to Devon Jones Street - Caledonia to Britannia Norfolk Street - Borden to Romeo					2,510,000 1,450,000 1,680,000 3,380,000						2,510,000 1,450,000 1,680,000 3,380,000	700,000 1,500,000			1,810,000 1,450,000 1,680,000 1,880,000	2,510,000 1,450,000 1,680,000 3,380,000
2029	Perth Street - Taylor to Borden Brunswick Street - King to Romeo Connecting Link Project						2,675,000 2,300,000 3,600,000					2,675,000 2,300,000 3,600,000	900,000 3,000,000			1,775,000 2,300,000 600,000	2,675,000 2,300,000 3,600,000
2030	Water Street - Parkview to Queen Birmingham Street - Cambria to Daly Stratford Street - St. David to Cambria Douglas Street - Huntingdon to John							2,000,000 2,000,000 2,000,000 2,800,000				2,000,000 2,000,000 2,000,000 2,800,000	 700,000 2,000,000			2,000,000 1,300,000 2,000,000 800,000	2,000,000 2,000,000 2,000,000 2,800,000
2031	East Gore Street - Taylor to Borden Romeo Street - Ontario to Brunswick Woods Street - Birmingham to St. Vincent								2,000,000 2,730,000 1,950,000			2,000,000 2,730,000 1,950,000	 2,000,000			2,000,000 730,000 1,950,000	2,000,000 2,730,000 1,950,000
2032	West Gore - St. Vincent to John John Street storm - West Gore to Cambria Grange Street - Waterloo to Front Laurier Street - East Gore to Norfolk									2,150,000 1,345,000 3,430,000 1,500,000		2,150,000 1,345,000 3,430,000 1,500,000	1,500,000 2,000,000			650,000 1,345,000 1,430,000 1,500,000	2,150,000 1,345,000 3,430,000 1,500,000

Dept Infrastructure Services		Division D.6 Linear Infrastructure																	
2024 Project Number	Project Name	Gross Project Costs											Total Project Costs	Funding Sources					
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Federal & Prov Funding		Development Charges	Long Term Debt	Developer/ LI Charges	Reserves	Total Funding	
2033	Avon Street - Avondale to McLagan											2,585,000	2,585,000					2,585,000	2,585,000
	Grange Street - Waterloo to Front											2,900,000	2,900,000	2,700,000				200,000	2,900,000
	Welll Street - Brunswick to Regent											2,900,000	2,900,000					2,900,000	2,900,000
		\$ 17,125,000	\$ 13,313,000	\$ 12,020,000	\$ 10,310,000	\$ 12,770,000	\$ 12,675,000	\$ 12,900,000	\$ 10,780,000	\$ 12,525,000	\$ 12,485,000	\$ 126,903,000	\$ 126,903,000	\$ 53,540,000	\$ -	\$ -	\$ 95,000	\$ 73,268,000	\$ 126,903,000
New Assets Identified in DC Study																			
	Short Street - Matilda to O'Loane					725,000						725,000	725,000					276,050	725,000
	McCarthy Road - Orr to O'Loane			900,000								900,000	900,000		448,950		30,000	331,000	900,000
														539,000					
TOTALS		\$ -	\$ -	\$ 900,000	\$ -	\$ 725,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,625,000	\$ 1,625,000	\$ -	\$ 987,950	\$ -	\$ 30,000	\$ 607,050	\$ 1,625,000

2024 Capital Project Detail Form

Department and Division	IS - Linear Infrastructure
Project Number	D.6.1
Project Name	Asphalt Resurfacing
Start Date and End Date	Apr to Oct - 2024

Brief Project Description:

Annual program for road surface reconstruction and/or rehabilitation of various streets.

A. Project Justification/Contribution to City Services and Strategic Priorities:

Annual program for the reconstruction/rehabilitation of various streets. Streets to be determined according to the Pavement Evaluation Study completed in 2022 and rehabilitation techniques based on geotechnical report recommendations. Devon Street east of Pleasant, Willow Street, and West Gore from John Street to the WPCP are under consideration. Budget includes allowance for crack sealing, and a geotechnical program to provide data for future roadworks.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
4050 Contractors	2,050,000	
4040 Consultants	200,000	Geotechnical and Excess Soils
Total Project Cost	\$ 2,250,000	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	2,025,000	R-R11-RFED
Reserve or Reserve Fund (specify)	75,000	R-R11-WWTR
Reserve or Reserve Fund (specify)	75,000	R-R11-WATR
Reserve or Reserve Fund (specify)	75,000	R-R11-STRM
Total Funding	\$ 2,250,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:

Decrease in maintenance costs - less patching, pothole and emergency repairs - will allow more temporary repair work to be done on other non-improved roads.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Risk - deterioration of asphalt roads requiring more remediation and rehabilitation and maintenance costs. Poorer driver/cycling experience. Poorer conditions roads result in the City receiving more legal claims for damages etc.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #

Description (make, model, year)

Current Condition Rating

Will it extend useful life? Yes - provide specifics

If yes, amended useful life in years 15-25

Service Level Impact Maintain

Explain:

Depending on the pavement's lifecycle stage, either basic rehabilitation / resurfacing or full reconstruction will be facilitated. Full reconstruction is recommended near end of service life, costs more but lasts longer.

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Estim. GHG Emissions Reduction (tCO2e) Unknown

Additional Detail

Asphalt production, processing and transportation is energy intensive, and results in emissions generation, that are generally accounted for within the manufacturer's Scope 1 and Scope 2 emissions.

(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

A significant amount of energy is required to create asphalt, facilitated by fossil fuel heating. Slightly less energy intense options exist, however, are not common practice and have limited availability locally. This field of climate considerate paving is emerging quickly.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Linear Infrastructure
Project Number	D.6.2
Project Name	Sewer Relining
Start Date and End Date	Apr to Oct - 2024

Brief Project Description:
Annual program to rehabilitate deteriorated storm and sanitary mains by relining, eliminating the need for open cut construction and restoration.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Rehabilitation of deteriorated or failing storm and sanitary mains in the most cost effective manner.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	750,000	
Total Project Cost	\$ 750,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	250,000	R-R11-STRM
Reserve or Reserve Fund (specify)	500,000	R-R11-WWTR
Total Funding	\$ 750,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:
Decreased cost of maintenance and flushing of poorly performing sewers

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Reduction of infiltration resulting in less overflows at WPCP. This is a very cost effective approach to avoid critical failures that could otherwise exacerbate flooding and backflows that residents could hold claims against the City.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #

Description (make, model, year)

Current Condition Rating

Will it extend useful life? Yes - provide specifics

If yes, amended useful life in years 50

Service Level Impact Maintain

<p>Explain: This trenchless construction approach essentially replaced what is existing with a new pipe.</p>
<p>E.3 Is there an asset to be disposed? No</p>
<p>F. Corporate Energy and Emissions Plan:</p> <p>F.1 Corporate Fleet</p> <p>F.2 Facility Asset</p> <p>F.3 Climate Lens for Other Purchases</p> <p style="text-align: right;"><u>Additional Detail</u></p> <p>Estim. GHG Emissions Reduction (tCO₂e) (tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)</p>
<p>Explain: Trenchless construction requires significantly less energy for installation than traditional open cut methods. Reduction in infiltration and inflow will also reduce volume of wastewater received at the Water Pollution Control Plant, reducing the energy needed to treat wastewater.</p>
<p>Note: Procurement Policy shall ensure climate lens and asset management principles are applied.</p>

2024 Capital Project Detail Form

Department and Division	IS - Linear Infrastructure
Project Number	D.6.3
Project Name	Watermain Relining
Start Date and End Date	Apr to Oct - 2024

Brief Project Description:
 Annual program to rehabilitate deteriorated watermains by relining, eliminating the need for open cut construction and restoration. Target area for 2024 includes Kenner Crescent. This section of watermain has experienced 3 historic breaks resulting in basement flooding in the area.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Annual program to rehabilitate deteriorated watermains by relining, eliminating the need for open cut construction and restoration. Target area for 2024 includes Kenner Crescent. This section of watermain has experienced 3 historic breaks resulting in basement flooding in the area.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4040 Consultants	700,000	
Total Project Cost	\$ 700,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	700,000	R-R11-WATR
Total Funding	\$ 700,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
 Watermain breaks regularly require afterhours work at elevated costs to repair. Avoiding breaks will reduce staff overtime. Each year staff respond to 20 - 40 main breaks requiring approximately \$1,800 in staff overtime costs per event.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Watermains will continue to deteriorate and break, there will be more impacts to service, and mains will have to be replaced by open cut. Construction costs will be significantly greater and public disruption will be encountered to close the necessary roads. Discolouration and water quality will require further monitoring.

E. Asset Management Plan:
E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #

Description (make, model, year)

Current Condition Rating

Will it extend useful life? Yes - provide specifics

If yes, amended useful life in years 50

Service Level Impact Maintain

Explain:

This trenchless construction approach essentially replaced what is existing with a new pipe.

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Trenchless construction for watermain projects is anticipated to require less energy for installation than traditional open cut methods, however, it will require more energy than sewer lining as a temporary water service will need to be created and maintained.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Linear Infrastructure
Project Number	D.6.4
Project Name	Albert Street Reconstruction 2024
Start Date and End Date	Jul to Nov - 2024

Brief Project Description:
 Reconstruction of road, replace sanitary, water and storm sewer all in poor condition from Waterloo Street to Front Street. Phase 2 from Front Street to King Street. Continuation of 2023 works and creation of bicycle boulevard resulting in safe cycling route.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The watermain is undersized and is experiencing excessive scaling resulting in loss of service to residents. The 2018 Water Infrastructure Needs study indicates Albert Street encounters reduced fire flow capacity. There are possible lead services throughout the street that need replacements. The sanitary sewer is over 100yrs old and in poor condition. Portions of the street have no storm drainage.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	700,000	Sanitary
	870,000	Water
	1,430,000	Road
	1,100,000	Storm
Total Project Cost	\$ 4,100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	700,000	R-R11-WWTR
Reserve or Reserve Fund (specify)	660,000	R-R11-WATR
Reserve or Reserve Fund (specify)	1,000,000	R-R11-STRM
Federal or Provincial Funding	1,740,000	R-R11-OCIF
Total Funding	\$ 4,100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:
 New road, sidewalks and underground infrastructure will require less maintenance.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Risk if not approved - Further deterioration of watermain, further breaks and repairs, further loss of service to residents. Reduced ability to provide adequate fire suppression flows. Increased deterioration of road, storm sewer, sidewalks. Increased maintenance of sanitary system.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #

Description (make, model, year)

Current Condition Rating

Will it extend useful life? Yes - provide specifics

If yes, amended useful life in years 40 to 60

Service Level Impact Maintain

Explain:

Paved surfaces service life anticipated range of 40-60 years, while watermain and sewer infrastructure service life anticipated to be 75 years.

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Significant energy demands will be required in the production of materials and equipment used for installations. Since the replacements are largely critical infrastructure, the main way to maximize benefits and mitigate climate impacts would be intensification where more residents are being serviced by the same infrastructure.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Linear Infrastructure
Project Number	D.6.5
Project Name	Moderwell Street - Local Improvement
Start Date and End Date	May to Oct - 2024

Brief Project Description:
 Reconstruction of road with curb and gutter, extend watermain to provide looping, spot repairs as necessary to existing sanitary and storm sewers. Roadwork is eligible for some local improvement charges.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Moderwell is an unimproved road, with no curb and gutter and failing roadway. The majority of the residential properties have paid local improvement charges for the future upgrade of the street. The watermain is a dead-end and should be extended to connect to St. Vincent Street in accordance with the City's Water Needs Study.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	100,000	Sanitary
4050 Contractors	300,000	Water
4050 Contractors	650,000	Road
4050 Contractors	150,000	Storm
Total Project Cost	\$ 1,200,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-WWTR
Reserve or Reserve Fund (specify)	300,000	R-R11-WATR
Reserve or Reserve Fund (specify)	555,000	R-R11-PWCA
Reserve or Reserve Fund (specify)	150,000	R-R11-STRM
Other (specify)	95,000	Local Improvement Charges
Total Funding	\$ 1,200,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
 New road and underground infrastructure will require less maintenance. Looping the water system will reduce Water Staff periodic flushing needed to keep good water quality and minimize discoloration.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Risk - further deterioration of road, impacts to drainage, no improvement to water connectivity, continuation of maintenance issues.

E. Asset Management Plan:
E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #
Description (make, model, year)
Current Condition Rating
Will it extend useful life?
If yes, amended useful life in years
Service Level Impact

Explain:

Paved surfaces service life anticipated range of 40-60 years, while watermain and sewer infrastructure service life anticipated to be 75 years.

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System		
Windows		
Lighting		
Insulation Upgrade		
Annual GHG emissions reduction (tCO2e)	6.5	
Service Life GHG emissions (tCO2e)	390.0	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

	Additional Detail
Estim. GHG Emissions Reduction (tCO2e)	Significant energy is required to install new infrastructure, however intensification will help alleviate these increases per capita.
<5 tCO2e	
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

Significant energy demands will be required in the production of materials and equipment used for installations. Since the replacements are largely critical infrastructure, the main way to mitigate climate impacts would be intensification where more residents are being serviced by the same infrastructure. There will also be less wasted water that would have otherwise been used to flush the dead-end watermain.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Linear Infrastructure
Project Number	D.6.6
Project Name	Avondale Avenue - Hibernia to Cemetery
Start Date and End Date	Apr to Oct - 2024

Brief Project Description:
 Reconstruction of road, replace sanitary, water and storm sewer all in poor condition from Hibernia Street to the Cemetery entrance.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The sanitary and storm sewers are over 100yrs old and in poor condition. The storm sewers are undersized. The road surface is in poor condition. The watermain is cast iron and over 90years old. There are possible lead services throughout the street that need replacements.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	700,000	Sanitary
4050 Contractors	885,000	Water
4050 Contractors	1,245,000	Road
4050 Contractors	1,270,000	Storm
Total Project Cost	\$ 4,100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	700,000	R-R11-WWTR
Reserve or Reserve Fund (specify)	885,000	R-R11-WATR
Reserve or Reserve Fund (specify)	585,000	R-R11-PWCA
Reserve or Reserve Fund (specify)	1,270,000	R-R11-STRM
Federal or Provincial Funding	660,000	R-R11-OCIF
Total Funding	\$ 4,100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
 New road, sidewalks and underground infrastructure will require less maintenance. In recent past, significant costs have been allocated to asphalt patch this deteriorated road.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Risk if not approved - Further deterioration of watermain, further breaks and repairs, further loss of service to residents. Reduced ability to provide adequate fire suppression flows. Increased deterioration of road, storm sewer, sidewalks. Increased maintenance of sanitary system.

E. Asset Management Plan:
E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #

Description (make, model, year)

Current Condition Rating

Will it extend useful life? Yes - provide specifics

If yes, amended useful life in years 40 to 60

Service Level Impact Maintain

Explain:

Paved surfaces service life anticipated range of 40-60 years, while watermain and sewer infrastructure service life anticipated to be 75 years.

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)

<5 tCO2e

Significant energy is required to install new infrastructure, however intensification will help alleviate these increases per capita.

(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Significant energy demands will be required in the production of materials and equipment used for installations. Since the replacements are largely critical infrastructure, the main way to mitigate climate impacts would be intensification where more people are being serviced off the same infrastructure.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Linear Infrastructure
Project Number	D.6.7
Project Name	2023 Carryover - Albert Street Reconstruction
Start Date and End Date	March - August 2024

Brief Project Description:
 Completion of the Albert Street 2023 Reconstruction project, from Waterloo to Front Street.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Contract awarded in May 2023, with completion of the contracted works in 2024, except for topcoat asphalt, which will be completed in 2024 and 2025.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	1,890,000	Geotechnical
4040 Consultants	35,000	
Total Project Cost	\$ 1,925,000	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	1,000,000	R-R11-OCIF
Reserve or Reserve Fund (specify)	500,000	R-R11-STRM
Reserve or Reserve Fund (specify)	275,000	R-R11-WATR
Reserve or Reserve Fund (specify)	150,000	R-R11-WWTR
Total Funding	\$ 1,925,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:
 New road, sidewalks and underground infrastructure will require less maintenance.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Risk if not approved - Further deterioration of watermain, further breaks and repairs, further loss of service to residents. Reduced ability to provide adequate fire suppression flows. Increased deterioration of road, storm sewer, sidewalks. Increased maintenance of sanitary system.

E. Asset Management Plan:
E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #

Description (make, model, year)

Current Condition Rating

Will it extend useful life? Yes - provide specifics

If yes, amended useful life in years 40-60

Service Level Impact Maintain

Explain:

Paved surfaces service life anticipated range of 40-60 years, while watermain and sewer infrastructure service life anticipated to be 75 years.

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)

<5 tCO2e

Significant energy required to install new infrastructure, however intensification will help alleviate these increases per capita.

(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Significant energy demands will be required in the production of materials and equipment used for installations. Since the replacements are largely critical infrastructure, the main way to mitigate climate impacts would be intensification where more residents are being serviced by the same infrastructure.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Linear Infrastructure
Project Number	D.6.8
Project Name	2023 Carryover - Resurfacing-Ontario/Erie
Start Date and End Date	April - Nov 2024

Brief Project Description:

Resurfacing of Erie Street from south of Ontario to Monteith Avenue. Erie Street is in very poor to fair condition (PQI 3.8-6.6). The road requires resurfacing to extend the life of the pavement and not deteriorate further. The road will be widened to provide proper lane widths in 2024. Design will be completed in 2024 for protected bike lanes and road diet, to be implemented as soon as approvals are obtained.

A. Project Justification/Contribution to City Services and Strategic Priorities:

The proposed resurfacing project was approved by Council as part of the Connecting Link application process. The Connecting Link Funding application was approved in 2023, and the agreement signed. Phase 1 of the works was completed in 2023 (Ontario Street) with Phase 2 to be completed in 2024.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	2,050,000	Geotechnical
4040 Consultants	50,000	
Total Project Cost	\$ 2,100,000	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	1,890,000	Connecting Link Funding
Reserve or Reserve Fund (specify)	65,000	R-R11-STRM
Reserve or Reserve Fund (specify)	145,000	R-R11-PWCA
Total Funding	\$ 2,100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:

Decrease in maintenance costs - less patching, pothole and emergency repairs - will allow more temporary repair work to be done on other non-improved roads.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Risk - deterioration of asphalt roads requiring more remediation and rehabilitation and maintenance costs. Poorer driver/cycling experience. Poorer condition roads result in the City receiving more legal claims for damages etc.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #

Description (make, model, year)

Current Condition Rating

Will it extend useful life?

Yes - provide
specifics

If yes, amended useful life in years

15-25

Service Level Impact

Maintain

Explain:

Depending on the pavement's lifecycle stage, either basic rehabilitation / resurfacing or full reconstruction will be facilitated. Full reconstruction is recommended near end of service life, costs more but lasts longer.

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Estim. GHG Emissions Reduction (tCO2e) Unknown

Additional Detail

Asphalt production, processing and transportation is energy intensive, and results in emissions generation, that are generally accounted for within the manufacturer's Scope 1 and Scope 2 emissions.

(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

A significant amount of energy is required to create asphalt, facilitated by fossil fuel heating. Slightly less energy intense options exists, however, are not common practice and limited availability locally. This field of climate considerate paving is emerging quickly.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Infrastructure Services**
Division **D.7 Fleet**

2024 Project Number	Project Name	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
D.7.1	Replacement of L20 Pickup Truck	70,000										70,000				70,000	70,000	
D.7.2	Replacement of L30 Pickup Truck	70,000										70,000				70,000	70,000	
D.7.3	Replacement of W40 Backhoe - Environmental Services	250,000										250,000				250,000	250,000	
D.7.4	Replacement of R50 Sidewalk Tractor and Attachments	250,000										250,000				250,000	250,000	
D.7.5	Replacement of R70 Sidewalk Tractor and attachments	250,000										250,000				250,000	250,000	
D.7.6	Replacement of N47 Mobile Painter Unit	20,000										20,000				20,000	20,000	
D.7.7	Replacement of M10 Roller Unit	90,000										90,000				90,000	90,000	
D.7.8	Replacement of P15 Tractor Loader and Backhoe	90,000										90,000				90,000	90,000	
D.7.9	Carryover additional Pickup - ES Supervisor	70,000										70,000				70,000	70,000	
D.7.10	Carry Forward of Forestry Truck and Chipper Box	265,000										265,000				265,000	265,000	
	Light Duty Fleet Replacement Schedule		695,000	600,000	215,000	515,000	260,000	255,000	80,000	630,000	900,000	4,150,000				4,150,000	4,150,000	
	Heavy Duty Fleet Replacement Schedule		925,000	1,600,000	2,025,000	600,000	400,000	-	-	765,000	250,000	6,565,000				6,565,000	6,565,000	
	Tractor Fleet Replacement Schedule		360,000	655,000	175,000	-	-	435,000	-	185,000	385,000	2,195,000				2,195,000	2,195,000	
	Mid-Size Equipment Fleet Replacement Schedule		195,000	300,000	363,000	65,000	-	166,500	265,000	13,000	80,000	1,447,500				1,447,500	1,447,500	
		\$ 1,425,000	\$ 2,175,000	\$ 3,155,000	\$ 2,778,000	\$ 1,180,000	\$ 660,000	\$ 856,500	\$ 345,000	\$ 1,593,000	\$ 1,615,000	\$ 15,782,500	\$ -	\$ -	\$ -	\$ -	\$ 15,782,500	\$ 15,782,500
New Assets Identified in DC Study																		
D.7.11	Parks and Recreation - Pickup Truck (DCs)	70,000										70,000				70,000	70,000	
	Parks - Pickup Truck (2028)					70,000						70,000				70,000	70,000	
D.7.12	Public Works - Pickup Truck (DCs)	70,000										70,000				70,000	70,000	
	Public Works - New Service Truck (2023)						85,000					85,000				85,000	85,000	
	Public Works - Sidewalk Machine (2022)		320,000									320,000				320,000	320,000	
	Public Works - Dump Truck (2022)							250,000				250,000				250,000	250,000	
	Public Works - Loader (2023)								300,000			300,000				300,000	300,000	
	Public Works - Plow Truck (2024)									500,000		500,000				500,000	500,000	
TOTALS		\$ 140,000	\$ 320,000	\$ -	\$ -	\$ 70,000	\$ 85,000	\$ 250,000	\$ 300,000	\$ 500,000	\$ -	\$ 1,665,000	\$ -	\$ 1,665,000	\$ -	\$ -	\$ -	\$ 1,665,000

2024 Capital Project Detail Form

Department and Division	IS - Fleet
Project Number	D.7.1
Project Name	Replacement of L20 Pickup Truck
Start Date and End Date	01/01/24 - 12/31/24

Brief Project Description:
L20 Public Works pickup truck to be replaced.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Unit listed is at and/or surpassed its estimated lifespan and is requiring elevated repairs to maintain.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
9020 Vehicles	70,000	Hybrid
Total Project Cost	\$ 70,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	70,000	R-R11-FLET
Total Funding	\$ 70,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:
There would be an anticipated reduction of operating costs experienced through fuel efficiencies and reduction in maintenance and repairs.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Escalating repair costs may result in not being able to maintain current levels of service. There would be delays in response times and overall decrease in productivity.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2025
Projected Replacement Cost	\$ 70,000
Projected Useful Life	10
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? Yes

Asset ID # 123
Description (make, model, year) 2012 Chevrolet 1500 Pickup Truck
Expected Disposal Date TBD

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

		<u>Additional Detail</u>
Conventional Fuel Type	Gasoline	
Estimated Fuel Consumption (litres)	5,000	
Annual GHG emissions (tCO ₂ e)	11.6	
Service Life GHG Emissions (tCO ₂ e)	138.6	
Service Life Fuel Costs (\$)	156,000	
Alternative Fuel Type	Hybrid	
Estimated Fuel Consumption (litres)	3,500	
Electricity Consumption (kWh)		
Annual GHG emissions (tCO ₂ e)	8.1	
Service Life GHG emissions (tCO ₂ e)	97.0	
Expected Operational Savings (\$)	46,800	
Emissions Reductions achieved (%)	30	

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO ₂ e) (tCO ₂ e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

Replacing a gasoline powered pickup truck with a hybrid vehicle will result in 30% fuel efficiency, associated cost savings from fuel usage and a cumulative emissions decrease of 42 tCO₂e over the service life of the vehicle.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Fleet
Project Number	D.7.2
Project Name	Replacement of L30 Pickup Truck
Start Date and End Date	01/01/24 - 12/31/24

Brief Project Description:
L30 Public Works pickup truck to be replaced.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Unit listed is at and/or surpassed its estimated lifespan and is now experiencing elevated repairs to maintain.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
--	-------------	--------------------------

9020 Vehicles	70,000	Hybrid
Total Project Cost	\$ 70,000	
Funding Sources	Amount	Additional Detail

Reserve or Reserve Fund (specify)	70,000	R-R11-FLET
Total Funding	\$ 70,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:
Reduction of operating costs for Fuel and repairs

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Escalating repair costs may result in not being able to maintain current levels of service. There would be delays in response times and overall decrease in productivity.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2035
Projected Replacement Cost	\$ 70,000
Projected Useful Life	10
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?	Yes
Asset ID #	124
Description (make, model, year)	2012 Chevrolet 1500 Pickup Truck
Expected Disposal Date	TBD

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

		<u>Additional Detail</u>
Conventional Fuel Type	Gasoline	
Estimated Fuel Consumption (litres)	5,000	
Annual GHG emissions (tCO2e)	11.6	
Service Life GHG Emissions (tCO2e)	138.6	
Service Life Fuel Costs (\$)	156,000	
Alternative Fuel Type	Hybrid	
Estimated Fuel Consumption (litres)	3,500	
Electricity Consumption (kWh)		
Annual GHG emissions (tCO2e)	8.1	
Service Life GHG emissions (tCO2e)	97.0	
Expected Operational Savings (\$)	46,800	
Emissions Reductions achieved (%)	30	

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO2e)	
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

Replacing a gasoline powered pickup truck with a hybrid vehicle will result in 30% fuel efficiency, associated cost savings from fuel usage and a cumulative emissions decrease of 42 tCO2e over the service life of the vehicle.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Fleet
Project Number	D.7.3
Project Name	Replacement of W40 Backhoe - Environmental Services
Start Date and End Date	01/01/24 - 12/31/24

Brief Project Description:
 Replace W40 Environmental Services backhoe. W40 will then be sent to the Landfill to replace S81 Landfill backhoe, which will be the asset that is disposed.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The S81 landfill back is deteriorated and the unit is at and/or surpassed its estimated lifespan. Elevated repairs are now required to maintain the unit.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
--	-------------	--------------------------

9030 Equipment	250,000	
Total Project Cost	\$ 250,000	
Funding Sources	Amount	Additional Detail

Reserve or Reserve Fund (specify)	250,000	R-R11-FLET
Total Funding	\$ 250,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:
 There is an anticipated reduction of operating costs for fuel and repairs

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 A newer more efficient unit will see a reduction in operating costs. Maintaining the existing unit would come at higher operating costs and repairs creating downtime and service level issues, which could jeopardize Ministry compliance.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2040
Projected Replacement Cost	\$ 25,000
Projected Useful Life	15
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? Yes
Asset ID # 352
Description (make, model, year) 2012 Cat 420F2IT
Expected Disposal Date TBD

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

		<u>Additional Detail</u>
Conventional Fuel Type	Diesel	
Estimated Fuel Consumption (litres)	6,000	
Annual GHG emissions (tCO2e)	16.1	
Service Life GHG Emissions (tCO2e)	193.0	
Service Life Fuel Costs (\$)	187,200	
Alternative Fuel Type	Diesel	No impact on GHG emissions reductions.
Estimated Fuel Consumption (litres)	6,000	
Electricity Consumption (kWh)		
Annual GHG emissions (tCO2e)	16.1	
Service Life GHG emissions (tCO2e)	193.0	
Expected Operational Savings (\$)	-	
Emissions Reductions achieved (%)	-	

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO2e) (tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

At this time there is no economically viable alternative fuel options that would allow service to be maintained. Should there be options in the future, these options will be investigated and proposed, to achieve emissions savings as recommended in the CEEP.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Fleet
Project Number	D.7.4
Project Name	Replacement of R50 Sidewalk Tractor and Attachments
Start Date and End Date	01/01/24 - 12/31/24

Brief Project Description:
Replacement of R50 Sidewalk Tractor and its attachments.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Replacing an existing 2014 unit with a new more fuel efficient unit and attachments will continue to ensure the sidewalks are safely maintained, supporting mobility, accessibility and design excellence and supporting equitable multi-modal transportation.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
9030 Equipment	250,000	R-R11-FLET
Total Project Cost	\$ 250,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	250,000	R-R11-FLET
Total Funding	\$ 250,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:
There would be an anticipated reduction of operating costs related to fuel and fleet repairs.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Acquiring a newer more efficient unit would reduce in operating costs. Maintain the existing unit would result in higher operating costs and repairs creating downtime and service level / winter maintenance compliance issues.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2037
Projected Replacement Cost	\$ 250,000
Projected Useful Life	12
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset**E.3 Is there an asset to be disposed?** Yes

Asset ID #	337
Description (make, model, year)	2012 Trackless Tractor MT6-1575 and attachments
Expected Disposal Date	TBD Plow and Blower

F. Corporate Energy and Emissions Plan:**F.1 Corporate Fleet**

		<u>Additional Detail</u>
Conventional Fuel Type	Diesel	
Estimated Fuel Consumption (litres)	5,000	
Annual GHG emissions (tCO ₂ e)	13.4	
Service Life GHG Emissions (tCO ₂ e)	160.8	
Service Life Fuel Costs (\$)	156,000	
Alternative Fuel Type	Diesel	No impact on GHG emissions reductions.
Estimated Fuel Consumption (litres)	5,000	
Electricity Consumption (kWh)		
Annual GHG emissions (tCO ₂ e)	13.4	
Service Life GHG emissions (tCO ₂ e)	160.8	
Expected Operational Savings (\$)	-	
Emissions Reductions achieved (%)	-	

F.2 Facility Asset**F.3 Climate Lens for Other Purchases**

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO ₂ e)	
(tCO ₂ e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

At this time there is no economically viable alternative fuel options that would allow service to be maintained. Should there be options in the future, these options will be investigated and proposed, to achieve emissions savings as recommended in the CEEP.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Fleet
Project Number	D.7.5
Project Name	Replacement of R70 Sidewalk Tractor and attachments
Start Date and End Date	01/01/24 - 12/31/24

Brief Project Description:
Replacement of R70 Sidewalk Tractor and attachments.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Replacing an existing 2014 unit with a new more fuel efficient unit and attachments will continue to ensure the sidewalks are safely maintained, supporting Mobility, Accessibility and Design Excellence and supporting equitable multi-modal transportation

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
9030 Equipment	250,000	
Total Project Cost	\$ 250,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	250,000	R-R11-FLET
Total Funding	\$ 250,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:
This unit would result in a reduction of operating costs related to fuel and fleet repairs. An estimated \$860,000 is budgeted in 2024 for external fleet service and for repair parts, not including Staff time.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
newer more efficient unit and reduction in operating costs / continue to operate at higher operating costs and repairs creating downtime and service level issues.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? Yes

Asset ID # 342
Description (make, model, year) 2014 Trackless MT6-1696 and Attachments - Plow and blower
Expected Disposal Date TBD

F. Corporate Energy and Emissions Plan:**F.1 Corporate Fleet**

		<u>Additional Detail</u>
Conventional Fuel Type	Diesel	
Estimated Fuel Consumption (litres)	5,000	
Annual GHG emissions (tCO ₂ e)	13.4	
Service Life GHG Emissions (tCO ₂ e)	160.8	
Service Life Fuel Costs (\$)	156,000	
Alternative Fuel Type	Diesel	No impact on GHG emissions reductions.
Estimated Fuel Consumption (litres)	5,000	
Electricity Consumption (kWh)		
Annual GHG emissions (tCO ₂ e)	13.4	
Service Life GHG emissions (tCO ₂ e)	160.8	
Expected Operational Savings (\$)	-	
Emissions Reductions achieved (%)	-	

F.2 Facility Asset**F.3 Climate Lens for Other Purchases**

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO ₂ e)	
(tCO ₂ e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

At this time there is no economically viable alternative fuel options that would allow service to be maintained. Should there be options in the future, these options will be investigated and proposed, to achieve emissions savings as recommended in the CEEP.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form		
Department and Division	IS - Fleet	
Project Number	D.7.6	
Project Name	Replacement of N47 Mobile Painter Unit	
Start Date and End Date	01/01/24 - 12/31/24	
Brief Project Description:		
Replacement of the N47 Graco Laser Line Mobile painter Unit.		
A. Project Justification/Contribution to City Services and Strategic Priorities:		
This 2000 unit is at its life span and is starting to affect the ability to paint all needed safety designs on the streets of Stratford in an efficient and effective way.		
B. Project Financials:		
(including 1.76% net HST expenses)		
	Cost	Additional Detail
9030 Equipment	20,000	
Total Project Cost	\$ 20,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	20,000	R-R11-FLET
Total Funding	\$ 20,000	
C. Impact on Operating Budget Going Forward:		
Amount in this Budget Year		Annual
Amount in Future Budget Years		
Description:		
There would be a reduction in operating cost from the reduction of downtime and repairs.		
D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:		
A newer more efficient unit would reduce operating costs by needing less repairs creating and overall downtime.		
E. Asset Management Plan:		
E.1 For a new purchase or construction		
Projected Replacement Year		2024
Projected Replacement Cost	\$	20,000
Projected Useful Life		20
Service Level Impact		Maintain
Explain:		
E.2 For a major repair or rehabilitation of an existing asset		

E.3 Is there an asset to be disposed?	Yes
Asset ID #	516
Description (make, model, year)	2000 Graco Laser Line Painter
Expected Disposal Date	TBD

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

		<u>Additional Detail</u>
Conventional Fuel Type	Gasoline	
Estimated Fuel Consumption (litres)	500	
Annual GHG emissions (tCO2e)	1.2	
Service Life GHG Emissions (tCO2e)	13.9	
Service Life Fuel Costs (\$)	15,600	
Alternative Fuel Type	Gasoline	Unless other alternatives are available
Estimated Fuel Consumption (litres)	500	at time of RFQ
Electricity Consumption (kWh)		
Annual GHG emissions (tCO2e)	1.2	
Service Life GHG emissions (tCO2e)	13.9	
Expected Operational Savings (\$)	-	
Emissions Reductions achieved (%)	-	

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO2e)	
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

Staff will investigate alternative options available at the time of RFQ, to support the recommendations of the CEEP and achieve corporate emission savings.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Fleet
Project Number	D.7.7
Project Name	Replacement of M10 Roller Unit
Start Date and End Date	01/01/24 - 12/31/24

Brief Project Description:
Replacement of M10 Asphalt roller unit

A. Project Justification/Contribution to City Services and Strategic Priorities:
This 2005 unit is at its life span and is starting to affect the ability to maintain the ability to roll asphalt optimally as needed to maintain the streets of Stratford in an efficient and effective way.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
--	-------------	--------------------------

9030 Equipment	90,000	
Total Project Cost	\$ 90,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	90,000	R-R11-FLET
Total Funding	\$ 90,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:
There would be a reduction in operating costs and associated repairs.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
A newer more efficient unit and reduction would reduce operating costs and maximize productivity.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2039
Projected Replacement Cost	\$ 90,000
Projected Useful Life	15
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?	Yes
Asset ID #	500
Description (make, model, year)	2005 Caterpillar CB-214E Roller
Expected Disposal Date	TBD

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

		<u>Additional Detail</u>
Conventional Fuel Type	Diesel	
Estimated Fuel Consumption (litres)	2,000	
Annual GHG emissions (tCO2e)	5.4	
Service Life GHG Emissions (tCO2e)	64.3	
Service Life Fuel Costs (\$)	62,400	
Alternative Fuel Type	Diesel	TBD if available at time of approval
Estimated Fuel Consumption (litres)	2,000	
Electricity Consumption (kWh)		
Annual GHG emissions (tCO2e)	5.4	
Service Life GHG emissions (tCO2e)	64.3	
Expected Operational Savings (\$)	-	
Emissions Reductions achieved (%)	-	

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO2e) (tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

Staff will investigate alternative options available at the time of RFQ, to support the recommendations of the CEEP and achieve corporate emission savings.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Fleet
Project Number	D.7.8
Project Name	Replacement of P15 Tractor Loader and Backhoe
Start Date and End Date	01/01/24 - 12/31/24

Brief Project Description:
Replacement of P15 tractor loader and backhoe attachment in the Parks Department

A. Project Justification/Contribution to City Services and Strategic Priorities:

This 2012 unit is at its life span and is starting to affect the ability to maintain services needed in the Parks department. Continued costly breakdowns have reduced the ability to use this unit as consistently/reliably.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
--	-------------	--------------------------

9030 Equipment	90,000	
Total Project Cost	\$ 90,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	90,000	R-R11-FLET
Total Funding	\$ 90,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years		

Description:
There would be a reduction in operating costs and associated repairs.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

A newer more efficient unit would reduce operating costs. Continuing to operate the existing unit would come at higher operating costs and repairs creating downtime and service level issues.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2040
Projected Replacement Cost	\$ 90,000
Projected Useful Life	15
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? Yes

Asset ID #	P15
Description (make, model, year)	2012 Case Bobcat 440T loader and backhoe attachment
Expected Disposal Date	TBD

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

		<u>Additional Detail</u>
Conventional Fuel Type	Diesel	
Estimated Fuel Consumption (litres)	3,500	
Annual GHG emissions (tCO ₂ e)	9.4	
Service Life GHG Emissions (tCO ₂ e)	112.6	
Service Life Fuel Costs (\$)	109,200	
Alternative Fuel Type	Diesel	No emissions savings expected at this time
Estimated Fuel Consumption (litres)	3,500	
Electricity Consumption (kWh)		
Annual GHG emissions (tCO ₂ e)	9.4	
Service Life GHG emissions (tCO ₂ e)	112.6	
Expected Operational Savings (\$)	-	
Emissions Reductions achieved (%)	-	

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	<u>Additional Detail</u>
Mechanical System	N/A	
Windows	N/A	
Lighting	N/A	
Insulation Upgrade	N/A	
Annual GHG emissions reduction (tCO ₂ e)	0.0	
Service Life GHG emissions (tCO ₂ e)	-	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO ₂ e) (tCO ₂ e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

Staff will investigate alternative options available at the time of RFQ, to support the recommendations of the CEEP and achieve corporate emission savings.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Fleet
Project Number	D.7.9
Project Name	Carryover additional Pickup - ES Supervisor
Start Date and End Date	01/01/24 -12/31/24

Brief Project Description:
Carryover of additional vehicle budgeted in 2023 for the new ES/Storm Supervisor.

A. Project Justification/Contribution to City Services and Strategic Priorities:
In the 2023 budget there was an approved addition of a new supervisor for ES/Storm operations and with it was a pickup that was never purchased in 2023.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
9020 Vehicles	70,000	
Total Project Cost	\$ 70,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	70,000	R-R11-FLET
Total Funding	\$ 70,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years	\$ 13,800	

Description:
There is an estimated increase to the operating budget of \$13,800, associated with repair, maintenance, fuel and asset renewal.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Vehicle needed for operations and inspections / vehicle share which creates inefficiencies and service level issues

E. Asset Management Plan:
E.1 For a new purchase or construction

Projected Replacement Year		2035
Projected Replacement Cost	\$	70,000
Projected Useful Life		10
Service Level Impact		Increase

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

Additional Detail

Conventional Fuel Type

This budget item is not replacing an existing fleet. It is an additional fleet that is being proposed as a hybrid vehicle.

Estimated Fuel Consumption (litres)	-
Annual GHG emissions (tCO2e)	0.0
Service Life GHG Emissions (tCO2e)	-
Service Life Fuel Costs (\$)	-

Alternative Fuel Type	Hybrid
Estimated Fuel Consumption (litres)	3,500
Electricity Consumption (kWh)	
Annual GHG emissions (tCO2e)	8.1
Service Life GHG emissions (tCO2e)	97.0
Expected Operational Savings (\$)	- 109,200
Emissions Reductions achieved (%)	#DIV/0!

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Selecting a hybrid vehicle over a gasoline powered pickup truck will result in 30% fuel efficiency, associated cost savings from fuel usage and a cumulative emissions decrease of 42 tCO2e over the service life of the vehicle.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Fleet
Project Number	D.7.10
Project Name	Carry Forward of Forestry Truck and Chipper Box
Start Date and End Date	01/01/23 -12/31/24

Brief Project Description:
 Replacement of 2006 Forestry truck and chipper box carryover from 2023 budget of \$155,000

A. Project Justification/Contribution to City Services and Strategic Priorities:
 This 2006 Forestry truck and chipper box needs to be replaced with an additional aerial unit to ensure day to day tree trimming and emergency tree service along with decorative banner and light installations currently being done by contractors.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
9020 Vehicles	265,000	
Total Project Cost	\$ 265,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	265,000	R-R11-FLET
Total Funding	\$ 265,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years	\$ 18,000	

Description:
 Based on estimated replacement and timing costs, it will impact future budgets by \$18,000 over 15 years to Capital Reserves.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 The aerial unit on this replacement vehicle would support the Forestry division by giving them greater capabilities in tree trimming and emergency tree removals, along with the ability to install banners/lights.

E. Asset Management Plan:
E.1 For a new purchase or construction

Projected Replacement Year	2035
Projected Replacement Cost	\$ 265,000
Projected Useful Life	10
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?	Yes
Asset ID #	1645
Description (make, model, year)	2005 Ford F450 with Chipper Box
Expected Disposal Date	TBD

F. Corporate Energy and Emissions Plan:**F.1 Corporate Fleet**

		<u>Additional Detail</u>
Conventional Fuel Type	Diesel	
Estimated Fuel Consumption (litres)	4,500	
Annual GHG emissions (tCO2e)	12.1	
Service Life GHG Emissions (tCO2e)	144.7	
Service Life Fuel Costs (\$)	140,400	
Alternative Fuel Type	Diesel	No emission savings are expected at this time.
Estimated Fuel Consumption (litres)	4,500	
Electricity Consumption (kWh)		
Annual GHG emissions (tCO2e)	12.1	
Service Life GHG emissions (tCO2e)	144.7	
Expected Operational Savings (\$)	-	
Emissions Reductions achieved (%)	-	

F.2 Facility Asset**F.3 Climate Lens for Other Purchases**

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO2e)	
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:
 At this time there is no economically viable alternative fuel options that would allow service to be maintained. Should there be options in the future, these options will be investigated and proposed, to achieve emissions savings as recommended in the CEEP.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Fleet
Project Number	D.7.11
Project Name	Parks and Recreation - Pickup Truck (DCs)
Start Date and End Date	2024

Brief Project Description:
 An addition to the Parks and Recreation pool of pickup trucks is required to meet existing fleet daily operations as identified in the 2022 Development Charges Background Study.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The 2022 Development Charges Background Study identified an additional piece of fleet is required to maintain existing service levels.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
9020 Vehicles	70,000	
Total Project Cost	\$ 70,000	
Funding Sources	Amount	Additional Detail
Development Charges	70,000	R-DGS-OREC
Total Funding	\$ 70,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	\$ 13,800	Annual O&M, Fuel and Renewal

Description:
 An estimated \$13,800 would be required to cover operation and maintenance, fuel and asset renewal.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 There would be a reduction in services provided. Work orders for operations, repairs and maintenance, will be based on fleet availability, not in order of service priority. There would also be a reduction in efficiency from shared vehicle use.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2034
Projected Replacement Cost	\$ 70,000
Projected Useful Life	10
Service Level Impact	Increase

Explain:
 An existing piece of fleet is required to maintain existing service levels.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

Asset ID #

Description (make, model, year)

Expected Disposal Date

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

Additional Detail

Conventional Fuel Type	Gasoline
Estimated Fuel Consumption (litres)	5,000
Annual GHG emissions (tCO ₂ e)	11.6
Service Life GHG Emissions (tCO ₂ e)	138.6
Service Life Fuel Costs (\$)	156,000

Alternative Fuel Type	Hybrid
Estimated Fuel Consumption (litres)	3,500
Electricity Consumption (kWh)	
Annual GHG emissions (tCO ₂ e)	8.1
Service Life GHG emissions (tCO ₂ e)	97.0
Expected Operational Savings (\$)	46,800
Emissions Reductions achieved (%)	30

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Replacing a gasoline powered pickup truck with a hybrid vehicle will result in 30% fuel efficiency and a cumulative emissions decrease of 42 tCO₂e over the service life of the vehicle.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	IS - Fleet
Project Number	D.7.12
Project Name	Public Works - Pickup Truck (DCs)
Start Date and End Date	01/01/24 - 12/31/24

Brief Project Description:
 An addition to the Public Works pool of pickup trucks required to meet existing daily operations of fleet as identified in the Development Charges Background Study.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The 2022 Development Charges Background Study identified an additional piece of fleet is required to maintain existing service levels. Pickup trucks are used daily for paving, landfill, traffic, garbage, mowing, inspections, winter operations.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
9020 Vehicles	70,000	
Total Project Cost	\$ 70,000	
Funding Sources	Amount	Additional Detail
Development Charges	70,000	R-DIS-OTRN
Total Funding	\$ 70,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Annual
Amount in Future Budget Years	\$ 13,800	

Description:
 There is an estimated increase to the operating budget of \$13,800, associated with repair, maintenance, fuel and asset renewal.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 There would be a reduction in services provided. Work orders for operations, repairs and maintenance, will be based on fleet availability, not in order of service priority. There would also be a reduction in efficiency from shared vehicle use.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2034
Projected Replacement Cost	\$ 70,000
Projected Useful Life	10
Service Level Impact	Maintain

Explain:
 An existing piece of fleet is required to maintain existing service levels.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

Additional Detail

Conventional Fuel Type

This budget item is not replacing an existing fleet. It is an additional fleet that is being proposed as a hybrid vehicle.

Estimated Fuel Consumption (litres)	
Annual GHG emissions (tCO2e)	0.0
Service Life GHG Emissions (tCO2e)	-
Service Life Fuel Costs (\$)	-

Alternative Fuel Type	Hybrid
Estimated Fuel Consumption (litres)	3,500
Electricity Consumption (kWh)	
Annual GHG emissions (tCO2e)	8.1
Service Life GHG emissions (tCO2e)	97.0
Expected Operational Savings (\$)	- 109,200
Emissions Reductions achieved (%)	

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Selecting a hybrid vehicle over a gasoline powered pickup truck will result in 30% fuel efficiency, associated cost savings from fuel usage and a cumulative emissions decrease of 42 tCO2e over the service life of the vehicle.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **Infrastructure Services**
Division **D.8 Landfill**

2024 Project Number	Project Name	Gross Project Costs											Funding Sources					
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Project Costs	Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	Total Funding
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
D.8.1	Landfill Buffer Acquisition	200,000										200,000				200,000	200,000	
		\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ -	\$ -	\$ -	\$ -	\$ 200,000	\$ 200,000
New Assets Identified in DC Study																		
	New Equipment					120,000						120,000		120,000			120,000	
	Cell Expansion				1,500,000							1,500,000		1,250,000		250,000	1,500,000	
	Diversion Site - Methan Expansion					1,500,000						1,500,000		1,350,000		150,000	1,500,000	
	Bin Upgrades									1,200,000		1,200,000		840,000		360,000	1,200,000	
	Facility Upgrades			700,000								700,000		490,000		210,000	700,000	
	Methane Burner Upgrades						250,000					250,000		175,000		75,000	250,000	
	Facility Upgrades							350,000				350,000		245,000		\$ 105,000	350,000	
TOTALS		\$ -	\$ -	\$ 700,000	\$ 1,500,000	\$ 1,620,000	\$ 250,000	\$ 350,000	\$ -	\$ 1,200,000	\$ -	\$ 5,620,000	\$ -	\$ 4,470,000	\$ -	\$ -	\$ 1,150,000	\$ 5,620,000

2024 Capital Project Detail Form

Department and Division	IS - Landfill
Project Number	D.8.1
Project Name	Landfill Buffer Acquisition - 2024 Carry Forward
Start Date and End Date	May 1, 2024 - October 1, 2024

Brief Project Description:

Buffer area of land must be acquired by the City.

A. Project Justification/Contribution to City Services and Strategic Priorities:

Land acquisition at the landfill is required by the Ministry of Environment, Conservation and Parks to ensure contamination remains within the limits of the Landfill site.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
Other (specify)	200,000	land purchase
Total Project Cost	\$ 200,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	200,000	R-R11-WAST
Total Funding	\$ 200,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	Not Applicable	

Description:

One time purchase

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

An order may be issued by the Province to comply. Reduces the City's ability to manage any issues if they arise.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	
Projected Replacement Cost	
Projected Useful Life	Indefinite
Service Level Impact	Maintain

Explain:

The land is currently vacant and the purchase will ensure that no development takes place on it next to the landfill

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This budget item is not directly related to the recommendations of the Corporate Energy and Emissions Plan. There are negligible climate or emissions impacts associated with this request.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept E. Social Services
Division E.1. Perth and Stratford Housing Corporation

2024 Project Number	Project Name	Gross Project Costs										Total Project Costs	Funding Sources (see Note 1 below)					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
E.1.1	9 Fulton Street Rebuild	5,301,500										5,301,500	699,200		4,602,300			5,301,500
E.1.2	Driveways and parking lots	50,000	50,000	50,000	75,000	75,000	75,000	75,000	75,000	75,000	75,000	675,000				675,000		675,000
E.1.3	Connectivity	846,000	460,000	460,000								1,766,000	400,000			1,366,000		1,766,000
E.1.4	Kitchen replacements	300,000	200,000	200,000	240,000	140,000	250,000	250,000	250,000	250,000	250,000	2,330,000				2,330,000		2,330,000
E.1.5	Furnace replacements	55,000	55,000	90,000	100,000	100,000	100,000	100,000	100,000	125,000	100,000	925,000				925,000		925,000
E.1.6	Roof replacements	300,000	240,000	240,000	240,000	240,000	240,000	240,000	240,000	240,000	240,000	2,460,000				2,460,000		2,460,000
E.1.7	Window replacement	55,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	1,855,000				1,855,000		1,855,000
E.1.8	Accessibility upgrades	100,000	70,000	75,000	100,000	200,000	100,000	100,000	100,000	100,000	100,000	1,045,000				1,045,000		1,045,000
E.1.9	Electrical upgrades	50,000	75,000	75,000	150,000	150,000	140,000	150,000	150,000	150,000	150,000	1,240,000				1,240,000		1,240,000
E.1.10	Fencing	5,000	10,000	20,000	25,000	25,000	25,000	25,000	30,000	100,000	100,000	365,000				365,000		365,000
E.1.11	Roofing tie-offs and access ladders	100,000	100,000	100,000	100,000	100,000	100,000	85,000	25,000	100,000	100,000	910,000				910,000		910,000
E.1.12	Balcony repairs	35,000	25,000	25,000	20,000	20,000	20,000	25,000	55,000	35,000	35,000	295,000				295,000		295,000
E.1.13	Asbestos assessments and abatement	100,000	100,000	100,000	50,000	50,000	50,000	20,000	20,000	20,000	20,000	530,000				530,000		530,000
E.1.14	Flooring repairs and replacement	10,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	460,000				460,000		460,000
		\$ 7,307,500	\$ 1,635,000	\$ 1,685,000	\$ 1,350,000	\$ 1,350,000	\$ 1,350,000	\$ 1,320,000	\$ 1,320,000	\$ 1,420,000	\$ 1,420,000	\$ 20,157,500	\$ 1,099,200	\$ -	\$ 4,602,300	\$ -	\$ 14,456,000	\$ 20,157,500
New Assets Identified in DC Study																		
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

Note 1 - Perth Stratford Housing Corp is a shared service. 59.31% of the funding contributions come from the shared services partners in St. Marys and Perth County

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.1
Project Name	9 Fulton Street Rebuild
Start Date and End Date	September 1, 2024 - August 31, 2025

Brief Project Description:

Rebuild of an 11 unit rent-geared-to income building located at 9 Fulton Street, Milverton.

A. Project Justification/Contribution to City Services and Strategic Priorities:

During an inspection in March 2023, City of Stratford staff identified a potential structural concern that could impact the health and safety of tenants. Following the recommendations of an engineering firm, chief building officials, legal council and the Ministry of Municipal Affairs and Housing, tenants were relocated out of the building and a complete tear-down and rebuild is being recommended. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
4050 Contractors	3,021,660	Construction of new building
4050 Contractors	1,359,750	Net zero standards - 45% incremental
4050 Contractors	438,140	Contingency
Other (specify)	481,950	Soft costs
Total Project Cost	\$ 5,301,500	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	699,200	Federal Funding, stream to be advised
Long Term Debt	4,602,300	Debenture
Total Funding	\$ 5,301,500	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 314,270	Annual Actual debenture costs would decrease if a Serial Debenture is chosen, however operating costs would increase based on inflation.
Amount in Future Budget Years	\$ 314,270	

Description:

Operating costs for the building being replaced in previous years averaged \$105,000. Because this building would be replacing one that is 60 years old, and the intention is to build to net zero standards resulting in decreased utility costs, there was no inflationary considerations when projecting future year costs as it is assumed that the savings to utilities and with newer infrastructure will offset inflation.

Assumed debenture costs of \$516,250 have been added into the annual estimated cost. This amount represents the approximate cost of a 25 year serial debenture, using an assumed 7% interest rate. Costs may increase if a shorter debenture term is selected or may decrease slightly if a fixed payment debenture is used.

Operating and debenture costs would be offset by the tenant portion of the rent-geared-to income rents for the units, estimated using the 5 year average of \$25,630, as well as revenue from partnering Municipalities based on cost sharing allocations, estimated at \$281,350 using 2024 allocations. Using an assumed 25 year serial debenture, this results in an approximate net cost to the City of Stratford of \$314,270. Actual choice of debenture terms could range from a 2024 City of Stratford cost of \$1,904,970 (if no debenture is selected) to \$192,990 (if a 25 year fixed payment debenture is selected).

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Rebuilding of the building will bring 11 Rent-Geared-to-Income (RGI) units back on line which aligns with the Housing Services Act (2011) with regard to required service level standards as well as the City's 10 year Housing and Homelessness plan. If the new build is not approved, the City may miss RGI targets set out by the Act which could result in reduced funding from upper level governments. This would also result in longer wait lists for RGI units in our service area.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #	#939	
Description (make, model, year)	Built in 1965	
Current Condition Rating	Poor	
Will it extend useful life?	Yes - provide specifics	Complete teardown and rebuild will reset the useful life of the building to an estimated 40 to 50 years
If yes, amended useful life in years	40 - 50	
Service Level Impact	Maintain	

Explain:

During an inspection in March 2023, City of Stratford staff identified a potential structural concern that could impact the health and safety of tenants. Following the recommendations of an engineering firm, chief building officials, legal council and the Ministry of Municipal Affairs and Housing, tenants were relocated out of the building and a complete tear-down and rebuild is being recommended. Based on the estimated useful life of a new building this will extend the useful life of the asset to 40 - 50 years. The building being replaced is part of our current service level standards, so rebuilding would maintain existing service levels. Not rebuilding would reduce service levels to below levels mandated by the Housing Services Act, 2011.

E.3 Is there an asset to be disposed?	Yes	
Asset ID #	#939	All existing building components, land would not be disposed of
Description (make, model, year)	Built in 1965	
Expected Disposal Date	August 31, 2025	

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	1.5 - 4.5	Heat Pump (Air Source)
Windows	0.6 - 1.2	Double Glazed
Lighting	0.4 - 0.8	LED
Insulation Upgrade	1.4 - 2.6	
Annual GHG emissions reduction (tCO2e)	6.5	
Service Life GHG emissions (tCO2e)	390.0	
Expected Units Fuel Savings (\$)	15-30% Savings	Lowest estimate, actual savings from fuel usage are anticipated to be higher.

F.3 Climate Lens for Other Purchases

	Additional Detail
Estim. GHG Emissions Reduction (tCO2e)	Replacing an old building with a net-zero structure will contribute to highest level of emission reductions.
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	>15 tCO2e

Explain:

The current building if commissioned to net zero standards will result in emissions savings of approximately 390 tCO2e over the operational service life.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.2
Project Name	Driveways and parking lots
Start Date and End Date	June 1, 2024 - September 1, 2024

Brief Project Description:
 Repair and replacement of driveways in houses and semi-detached homes that have reached the end of their life cycle.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The driveways located at houses and semi-detached homes have deteriorated and require repair. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	50,000	Driveway replacements
Total Project Cost	\$ 50,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	50,000	R-R11-HOUS Original transfer to reserves is cost shared with partnering municipalities
Total Funding	\$ 50,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -
Amount in Future Budget Years	\$ -

Description:
 No anticipated impact on operating budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Deteriorated driveways and sidewalks are a health and safety hazard.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2049
Projected Replacement Cost	\$ 50,000
Projected Useful Life	25
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

Asset ID #

Description (make, model, year)

Current Condition Rating

Will it extend useful life?

If yes, amended useful life in years

Service Level Impact

Explain:

These will be replacements of existing assets that have reached the end of their life cycle.

E.3 Is there an asset to be disposed? No**F. Corporate Energy and Emissions Plan:****F.1 Corporate Fleet****F.2 Facility Asset**

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System		
Windows		
Lighting		
Insulation Upgrade		
Annual GHG emissions reduction (tCO ₂ e)	6.5	
Service Life GHG emissions (tCO ₂ e)	390.0	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Although driveway replacements are not anticipated to have a direct impact on GHG emissions reductions, it must be noted that locally available raw material would be more sustainable and lower in emissions as compared to that which is source from afar (e.g. outside the province). Similarly recycled content within the material can also indirectly relate to embodied emissions and reduced requirement of virgin materials that require intensive energy to process. Such an approach may result in higher costs than status quo, however will align with a circular economy approach.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.3
Project Name	Connectivity
Start Date and End Date	June 1, 2020 - December 31, 2025

Brief Project Description:
Installation of video surveillance and electronic locking mechanisms.

A. Project Justification/Contribution to City Services and Strategic Priorities:

In 2020 the Housing and IT Divisions jointly engaged the services of a connectivity consultant to conduct a thorough needs assessment of the security requirements for the multi-residential properties owned by the City and Perth and Stratford Housing Corporation (19 sites). The recommendations from this study are being used to guide a multi-year phased in approach to upgrading the video surveillance systems and introduce new electronic door locking systems throughout the portfolio. This will have a large impact on improving the safety and security of housing units for our tenants, and will also reduce operating costs in the long-term as less staff time will be needed to address lock changes and manually retrieve video footage, particularly for sites in St. Marys and Perth County. Cameras and access control systems are integral to ensuring life safety in buildings as they can help deter crime and monitor the activities of the building as well as ensuring the buildings are secure and by controlling entry to them.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	546,000	Surveillance equipment
4050 Contractors	300,000	Electronic Locking Systems
Total Project Cost	\$ 846,000	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	400,000	Federal Funding through Police Services
Reserve or Reserve Fund (specify)	446,000	R-R11-HOUS
Total Funding	\$ 846,000	Original transfer to reserves is cost shared with partnering municipalities

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -	
Amount in Future Budget Years	\$ 20,000	Managed Services contract

Description:
The video surveillance system will require a managed services contract to ensure that security and upgrades are maintained.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Failure to implement a new connectivity/security system will impact safety and security of the tenants, visitors and the properties, and lead to possible liability issues and complaints. Additionally, the grant funding from the federal government is required to be cost matched. If this is not approved, it will be returned unused.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year		2039
Projected Replacement Cost	\$	860,000
Projected Useful Life		15
Service Level Impact		Increase

Explain:

The installation of video surveillance and electronic access will increase service levels for tenants and community partners by increasing the efficiency of lock changes and improving the safety and security of the buildings.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System		
Windows		
Lighting		
Insulation Upgrade		
Annual GHG emissions reduction (tCO2e)	6.5	
Service Life GHG emissions (tCO2e)	390.0	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

		Additional Detail
Estim. GHG Emissions Reduction (tCO2e)	<5 tCO2e	This project has a lower carbon footprint and resultant direct GHG savings.
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)		

Explain:

Installation of video surveillance and electronic access will allow each of these systems to be controlled remotely and will reduce the frequency and distance travelled to each housing site. This is congruent with the CEEP recommendations to proactively manage direct and indirect emissions as a result of corporate fleet use.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.4
Project Name	Kitchen replacements
Start Date and End Date	January 1, 2024 - December 31, 2024

Brief Project Description:
This project involves the replacement of kitchen cabinets.

A. Project Justification/Contribution to City Services and Strategic Priorities:

Kitchen cabinets in most units are original to the building and have long passed their useful life expectancy. Legislation mandates that landlords are to maintain a certain level of maintenance on the properties. Cabinets will be exchanged during unit turnover. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	300,000	Cabinet purchase and installation
Total Project Cost	\$ 300,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	300,000	R-R11-HOUS
Total Funding	\$ 300,000	Original transfer to reserves is cost shared with partnering municipalities

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$	-
Amount in Future Budget Years	\$	-

Description:
No anticipated impact on operating budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

If approved, better quality of life and improved health and safety for tenants. If not, approved, risk of being in violation of mandate requiring units to be maintained in good repair.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2049
Projected Replacement Cost	\$ 300,000
Projected Useful Life	25
Service Level Impact	Maintain

Explain:
This is the replacement of existing kitchens.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	<u>Additional Detail</u>
Mechanical System		
Windows		
Lighting		
Insulation Upgrade		
Annual GHG emissions reduction (tCO2e)	6.5	
Service Life GHG emissions (tCO2e)	390.0	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

		<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO2e)	<5 tCO2e	
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)		

Explain:

Kitchen replacements are not anticipated to have a major impact on direct GHG emissions. Local materials with recyclable content can ensure that the projects encompasses a strategic climate lens, with a focus on all elements of sustainability. For example, if wood/timber is selected as the main component in the cabinets, chain of custody certification (e.g. FSC certified material) is recommended to be selected for this purpose. Costs are usually comparable to conventional material, however that may vary depending upon vendors.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.5
Project Name	Furnace replacements
Start Date and End Date	January 1, 2024 - January 31, 2024

Brief Project Description:
Replacement of furnaces as they reach the end of their life cycle.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Several family unit furnaces have reached the end of their life cycle. Replacement of furnaces is required in order to reduce the likelihood of heating system failures which result in increased operating costs. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	55,000	Furnace replacement
Total Project Cost	\$ 55,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	55,000	R-R11-HOUS
Total Funding	\$ 55,000	Original transfer to reserves is cost shared with partnering municipalities

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -	
Amount in Future Budget Years	\$ -	\$ -

Description:
No anticipated impact on operating budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Furnaces that are not replaced at the end of life cycle have a greater risk of breakdown which will result in increased operating costs to repair as well as potential after hours service costs and tenant displacement costs as a result of no heat during extreme weather conditions.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2044
Projected Replacement Cost	\$ 55,000
Projected Useful Life	20
Service Level Impact	Maintain

Explain:
This is a replacement of existing furnaces.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	1.5 - 4.5	30% efficiency
Windows		
Lighting		
Insulation Upgrade		
Annual GHG emissions reduction (tCO2e)	6.5	
Service Life GHG emissions (tCO2e)	180.0	
Expected Units Fuel Savings (\$)		Fuel usage is paid by tenants, no savings to the corporation.

F.3 Climate Lens for Other Purchases

		Additional Detail
Estim. GHG Emissions Reduction (tCO2e)	Unknown	
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)		

Explain:

New furnaces are anticipated to be more efficient than those they are replacing. Energy efficient furnaces with 30% efficiency can result in both fuel and cost savings. There would be options to look into models with greater energy efficiency (e.g. SEER rating depending on building sizing) but it is anticipated that this would increase costs. The highest impact in terms of emissions would mean seeking options for heat pumps or a hybrid approach, that can be attained at a higher cost, however can be supported through funding opportunities.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.6
Project Name	Roof replacements
Start Date and End Date	May 1, 2024 - October 1, 2024

Brief Project Description:

This project will replace flat roofs that have reached the end of their life cycle in townhouse units.

A. Project Justification/Contribution to City Services and Strategic Priorities:

This project is for roof replacements for buildings that have reached the end of their life cycle. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
4050 Contractors	300,000	Roof replacements
Total Project Cost	\$ 300,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	300,000	R-R11-HOUS
Total Funding	\$ 300,000	Original transfer to reserves is cost shared with partnering municipalities

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -	
Amount in Future Budget Years	\$ -	

Description:

No anticipated impact on operating budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

New roofs are anticipated to be more energy efficient than those they are replacing. If roofs are not replaced as they near the end of their life cycle, leaks could occur leading to water damage.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year		2044
Projected Replacement Cost	\$	300,000
Projected Useful Life		20
Service Level Impact		Maintain

Explain:

This project is the replacement of an existing roof.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	N/A	
Windows	N/A	
Lighting	N/A	
Insulation Upgrade	1.4 - 2.6	
Annual GHG emissions reduction (tCO2e)	2.0	
Service Life GHG emissions (tCO2e)	120.0	
Expected Units Fuel Savings (\$)	Unknown	Upgraded insulation in roof can contribute toward a tighter building envelope, resulting in natural gas savings to the tune of 5%.

F.3 Climate Lens for Other Purchases

		Additional Detail
Estim. GHG Emissions Reduction (tCO2e)	<5 tCO2e	
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)		

Explain:

New roofs with thicker insulation are anticipated to be more efficient than those they are replacing. These have the ability to contribute to an airtight envelope with efficiencies achieved in terms of energy usage, resulting in reduced energy usage and costs. Thicker insulation will result in higher initial costs, however can be tied to ROI over a short-medium term, through decreased utility costs.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.7
Project Name	Window replacement
Start Date and End Date	May 1, 2024 - October 1, 2024

Brief Project Description:
This project involves the replacement of windows that have reached the end of their life-cycle.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Windows which have reached the end of their life cycle could cause damage to buildings and also represent an opportunity to improve the efficiency of buildings when replaced. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	55,000	Window replacement
Total Project Cost	\$ 55,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	55,000	R-R11-HOUS Original transfer to reserves is cost shared with partnering municipalities
Total Funding	\$ 55,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -
Amount in Future Budget Years	\$ -

Description:
No anticipated impact on operating budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
New windows are anticipated to be more energy efficient than those they are replacing. Not replacing the windows could lead to leaks resulting in water damage.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2024
Projected Replacement Cost	\$ 55,000
Projected Useful Life	30
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System	N/A	
Windows	0.6 - 1.2	Triple Glazed
Lighting	N/A	
Insulation Upgrade	N/A	
Annual GHG emissions reduction (tCO2e)	0.9	
Service Life GHG emissions (tCO2e)	54.0	
Expected Units Fuel Savings (\$)	Unknown	High performance windows such as those that are triple glazed can contribute toward a tighter building envelope and increased energy efficiency, resulting in natural gas savings to the tune of 5%.

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)
 (tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

New windows, specifically triple glazed options are anticipated to be more efficient than those they are replacing. This upgrade can contribute to improved heat retention, potentially lower energy bills and also account for optimized thermal comfort for occupants.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.8
Project Name	Accessibility upgrades
Start Date and End Date	January 1, 2024 - December 1, 2024

Brief Project Description:
 These projects will address barriers to accessibility including but not limited to scooter storage, power door openers, and ensuring entrances and exits are accessible.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 These projects will reduce barriers to accessibility and improve quality of life for tenants. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	100,000	Accessibility upgrades
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-HOUS
Total Funding	\$ 100,000	Original transfer to reserves is cost shared with partnering municipalities

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -
Amount in Future Budget Years	\$ -

Description:
 No anticipated impact on operating budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Proceeding with this project will reduce barriers to accessibility and improve quality of life for tenants. Not moving forward could lead to legal implications as landlords have a duty to accommodate tenants needs according to the Ontario Human Rights Code.

E. Asset Management Plan:
E.1 For a new purchase or construction
 Projected Replacement Year
 Projected Replacement Cost
 Projected Useful Life
 Service Level Impact Increase

Explain:
 These projects will increase service levels for tenants.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	<u>Additional Detail</u>
Mechanical System		
Windows		
Lighting		
Insulation Upgrade		
Annual GHG emissions reduction (tCO ₂ e)	6.5	
Service Life GHG emissions (tCO ₂ e)	390.0	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

		<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO ₂ e)	Unknown	
(tCO ₂ e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)		

Explain:

Identified accessibility upgrades are not expected to have a direct impact on the City's GHG emissions reductions.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.9
Project Name	Electrical upgrades
Start Date and End Date	January 1, 2024 - December 31, 2024

Brief Project Description:
The project will replace outdated electrical panels with new electrical panels.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The replacement of outdated panels will minimize the risk of fire and danger to staff, tenants or contractors. It is also currently a challenge to source replacement parts for these panels as their components are often no longer in production. This project contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	50,000	Panel replacements
Total Project Cost	\$ 50,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	50,000	R-R11-HOUS
Total Funding	\$ 50,000	Original transfer to reserves is cost shared with partnering municipalities

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -	
Amount in Future Budget Years	\$ -	

Description:
There impacts to the operating budget moving forward are anticipated to be minimal.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Moving forward with this project will help to ensure uninterrupted electrical service to tenants.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2054
Projected Replacement Cost	\$ 50,000
Projected Useful Life	30
Service Level Impact	Maintain

Explain:
This project will maintain the level of electrical service to tenants.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	<u>Additional Detail</u>
Mechanical System		
Windows		
Lighting		
Insulation Upgrade		
Annual GHG emissions reduction (tCO ₂ e)	6.5	
Service Life GHG emissions (tCO ₂ e)	390.0	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

		<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO ₂ e)	Unknown	
(tCO ₂ e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)		

Explain:

The upgrades to the electrical panels would be anticipated to be more efficient than the panels they are replacing. The direct impact on GHG emissions is anticipated to be minimal, however this project does have the capacity to strengthen the City's assets.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.10
Project Name	Fencing
Start Date and End Date	May 1, 2024 - October 31, 2024

Brief Project Description:
 This project will replace fences that are at the end of their life cycle.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Fences that have reached the end of their life cycle represent potential health, safety and liability concerns. This project would work to address this matters. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	5,000	Fence replacement
Total Project Cost	\$ 5,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	5,000	R-R11-HOUS
Total Funding	\$ 5,000	Original transfer to reserves is cost shared with partnering municipalities

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -	
Amount in Future Budget Years	\$ -	

Description:
 No anticipated impact on operating budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 If it is decided to not proceed with this project there could be health, safety and liability risks.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2039
Projected Replacement Cost	\$ 5,000
Projected Useful Life	15
Service Level Impact	Maintain

Explain:
 This project would replace existing fences and would maintain service levels.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) Unknown
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This project is not anticipated to have an impact on GHG emissions. It would be possible to use products with recycled content, or fully reuse salvaged material (e.g. from construction sites etc.) with lower embodied carbon than traditional fencing materials made out of virgin material. It is unknown at this stage if such considerations will result in increased costs or decreased service levels.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.11
Project Name	Roofing tie-offs and access ladders
Start Date and End Date	June 1, 2024 - June 30, 2024

Brief Project Description:
 This project will consist of installing tie-offs and access ladders on buildings to address health and safety concerns.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The installation of roof tie-offs and access ladders will promote the health and safety of staff and contractors. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	100,000	Roof tie-offs/ladder access
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-HOUS
Total Funding	\$ 100,000	Original transfer to reserves is cost shared with partnering municipalities

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -
Amount in Future Budget Years	\$ -

Description:
 There is no anticipated impact on the operating budget moving forward.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 This project is to address health and safety concerns for staff and contractors. If it is determined not to move forward with it, there are health, safety and liability risks.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2049
Projected Replacement Cost	\$ 100,000
Projected Useful Life	25
Service Level Impact	Increase

Explain:
 This project will provide an increased level of health and safety.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	<u>Additional Detail</u>
Mechanical System		
Windows		
Lighting		
Insulation Upgrade		
Annual GHG emissions reduction (tCO2e)	6.5	
Service Life GHG emissions (tCO2e)	390.0	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO2e) <5 tCO2e	
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

It is not anticipated that this project will have a significant impact on GHG emissions.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.12
Project Name	Balcony repairs
Start Date and End Date	May 1, 2024 - October 31, 2024

Brief Project Description:
This project will involve repairs to balconies as needed.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Balconies at housing properties are nearing the end of their life cycle and require repairs. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	35,000	Balcony repair
Total Project Cost	\$ 35,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	35,000	R-R11-HOUS Original transfer to reserves is cost shared with partnering municipalities
Total Funding	\$ 35,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -	
Amount in Future Budget Years	\$ -	

Description:
No anticipated impact on operating budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Proceeding with this project would minimize health, safety and liability risks.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2084
Projected Replacement Cost	\$ 35,000
Projected Useful Life	60
Service Level Impact	Maintain

Explain:
The repair of balconies is maintenance of an existing asset.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) <5 tCO₂e
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

The replacement of balconies is not anticipated to have a direct impact on GHG emissions. It is recommended that materials be selected based on their embodied emissions (such as information from Environmental Product Declaration) and those that are available locally preferred, that can contribute to indirect GHG emissions.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.13
Project Name	Asbestos assessment and abatement
Start Date and End Date	May 1, 2024 - October 31, 2024

Brief Project Description:
This project would involve assessments and, as needed, abatement of asbestos in housing buildings.

A. Project Justification/Contribution to City Services and Strategic Priorities:
This project would undertake asbestos assessments and abatement in housing units which have not yet been assessed. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4040 Consultants	100,000	Assessments/Abatement if required
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-HOUS
Total Funding	\$ 100,000	Original transfer to reserves is cost shared with partnering municipalities

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -	
Amount in Future Budget Years	\$ -	

Description:
No anticipated impact on operating budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Proceeding with this project would minimize health, safety and liability risks. The undertaking of the asbestos assessments also meets with accounting reporting standards in determining estimated costs and future liabilities related to assets that are returned at the end of their useful lives.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) <5 tCO₂e
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Asbestos assessment and abatement is not anticipated to have a significant impact on GHG emissions. However end-of-life disposal would need to be confirmed with the contractor, and is recommended to conform to provincial regulations.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	SS - Housing
Project Number	E.1.14
Project Name	Flooring repairs and replacement
Start Date and End Date	January 1, 2024 - December 31, 2024

Brief Project Description:
This project would involve replacing flooring that has reached the end of its life cycle.

A. Project Justification/Contribution to City Services and Strategic Priorities:
Flooring that has reached the end of its life cycle requires replacement. This contributes to the City of Stratford's Strategic Priorities through developing our resources - optimizing Stratford's physical assets and digital resources.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	10,000	Flooring replacements
Total Project Cost	\$ 10,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	10,000	R-R11-HOUS Original transfer to reserves is cost shared with partnering municipalities
Total Funding	\$ 10,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ -	
Amount in Future Budget Years	\$ -	

Description:
No anticipated impact on operating budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Proceeding with this project would minimize health, safety and liability risks.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2039
Projected Replacement Cost	\$ 10,000
Projected Useful Life	15
Service Level Impact	Maintain

Explain:
This project would maintain service levels as it would be the replacement of existing floors.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e) <5 tCO₂e
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

The replacement of flooring is not anticipated to have significant impacts on GHG emissions. Options such as engineered wood. Considerations such as material with recycled content, zero VOCs and formaldehyde are recommended for use.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **E. Social Services**
Division **E.2. Affordable Housing Buildings**

2024 Project Number	Project Name	Gross Project Costs											Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	Total Project Costs	Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
	230 Britannia - Fire Alarm						130,000					130,000				130,000	130,000	
	230 Britannia - Appliances						64,000					64,000				64,000	64,000	
	230 Britannia - Painting						168,000					168,000				168,000	168,000	
	230 Britannia - Connectivity Equipment						40,000					40,000				40,000	40,000	
		\$ -	\$ -	\$ -	\$ -	\$ -	\$ 402,000	\$ -	\$ -	\$ -	\$ -	\$ 402,000	\$ -	\$ -	\$ -	\$ -	\$ 402,000	\$ 402,000
New Assets Identified in DC Study																		
TOTALS		\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **F. Stratford Public Library**

2024 Project Number	Project Name	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
F.1	Library Collection	227,170	233,349	239,683	246,175	252,829	259,650	266,641	273,807	281,153	288,683	2,569,140					2,569,140	2,569,140
F.2	Library Computer Equipment	49,200	28,500	28,700	36,000	52,000	29,500	29,700	37,000	54,000	30,500	375,100					375,100	375,100
F.3	Staff Restroom Facility Update	25,000										25,000					25,000	25,000
F.4	New Library Facility Expenses	75,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	1,425,000					1,425,000	1,425,000
	Website Redesign		5,000	5,000	10,000							20,000					20,000	20,000
	PLOW Van Replacement					65,000						65,000					65,000	65,000
	Strategic Planning Expenses				40,000				40,000			80,000					80,000	80,000
		\$ 376,370	\$ 416,849	\$ 423,383	\$ 482,175	\$ 519,829	\$ 439,150	\$ 446,341	\$ 500,807	\$ 485,153	\$ 469,183	\$ 4,559,240	\$ -	\$ -	\$ -	\$ -	\$ 4,559,240	\$ 4,559,240
New Assets Identified in DC Study																		
F.1	Library Collection	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	200,000						200,000
	PLOW Van Replacement					5,000						5,000						5,000
	Library Building										22,000,000	22,000,000	1,000,000	7,700,000	5,000,000	7,100,000	1,200,000	22,000,000
TOTALS		\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 25,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 20,000	\$ 22,020,000	\$ 22,205,000	\$ 1,000,000	\$ 7,905,000	\$ 5,000,000	\$ 7,100,000	\$ 1,200,000	\$ 22,205,000

2024 Capital Project Detail Form

Department and Division	Stratford Public Library
Project Number	F.1
Project Name	Library Collection
Start Date and End Date	January 1, 2024 - December 31, 2024

Brief Project Description:
Purchase of library materials for lending to the community.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The purchase of physical and electronic books, audio-visual and other information resources such as research databases. The library collection helps fulfill the core mission of the library which is to provide the community with timely and relevant information and cultural resources.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
3050 Materials	247,170	
Total Project Cost	\$ 247,170	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	227,170	R-R11-LIBR
Development Charges	20,000	R-DGS-LIBR
Total Funding	\$ 247,170	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 247,170	Annual
Amount in Future Budget Years		

Description:
Costs may increase for annual inflation or with changes to formats and resources required.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Through its collections, the Library encourages reading, helps develop literacy skills, and fosters life-long learning. The various collections at the library: support informational and recreational reading, viewing, listening, and engagement; stimulate the imagination and empower creativity; increase an individual's ability to succeed and participate actively in the community.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year
Projected Replacement Cost
Projected Useful Life
Service Level Impact

Explain:

Library materials have a life cycle related to: popularity, timeliness, accuracy of information, physical condition. Without unlimited space, the collection must be treated as rotating stock: new items are purchased and old ones are discarded on a regular basis.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? Yes

Asset ID #

Description (make, model, year)

Expected Disposal Date TBD

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO2e)

(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This request is not directly applicable to the Corporate Energy and Emissions Plan.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Stratford Public Library
Project Number	F.2
Project Name	Library Computer Equipment
Start Date and End Date	January 1, 2024 - December 31, 2024

Brief Project Description:
 Routine scheduled replacement of staff and public workstations as well as network infrastructure.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 To keep current with technology and maintain the level of service and support, staff and public workstations replaced on a four year cycle. Network and communications equipment such as firewalls and servers are generally replaced on a five year cycle to ensure security and support is maintained.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
9030 Equipment	49,200	
Total Project Cost	\$ 49,200	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	49,200	R-R11-LIBR
Total Funding	\$ 49,200	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 49,200	Current
Amount in Future Budget Years		

Description:
 Capital equipment is replaced on a schedule and financial impact varies year by year.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Staff and public workstations and network infrastructure that is modern and up-to-date helps fulfill the mandate of libraries to delivery effective and efficient services to the community. Library technologies also play a vital role in bridging the digital divide for residents who wouldn't otherwise have access to reliable technology. Updating technologies on a regular basis helps limit security risks and service outages.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2028
Projected Replacement Cost	\$ 52,000
Projected Useful Life	4-5 years
Service Level Impact	Maintain

Explain:
 Staff and public workstations are replaced on a four year cycle; network equipment is replaced on a five year cycle.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)

Unknown

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Computers and network infrastructure purchased are 'energy efficient' or Energy Star rated. Such equipment may use approximately 25% to 40% less energy, on average, than a standard model. Reduced energy usage is expected to impact emissions generation throughout a facility, and result in comparatively lower energy costs.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Stratford Public Library
Project Number	F.3
Project Name	Staff Restroom Facility Update
Start Date and End Date	April 1, 2023 - June 30, 2023

Brief Project Description:
Update the library staff restroom facilities.

A. Project Justification/Contribution to City Services and Strategic Priorities:
This small staff restroom has not been updated since it was first installed in the mid 1970s and is long since passed its useful life expectancy. This upgrade supports the library board's strategic priority to Intentionally Support Our Team as well as the City of Stratford's priorities by improving physical assets.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4107 Building Repair	25,000	R-R11-LIBR
Total Project Cost	\$ 25,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	25,000	R-R11-LIBR
Total Funding	\$ 25,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 25,000	Current
Amount in Future Budget Years	\$ -	

Description:

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
The restroom fixtures will continue to go further into disrepair and could potentially become a health and safety risk to staff.

E. Asset Management Plan:
E.1 For a new purchase or construction
Projected Replacement Year 2044
Projected Replacement Cost \$ 30,000
Projected Useful Life
Service Level Impact

Explain:

E.2 For a major repair or rehabilitation of an existing asset
E.3 Is there an asset to be disposed? No

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System		
Windows		
Lighting		
Insulation Upgrade		
Annual GHG emissions reduction (tCO2e)	6.5	
Service Life GHG emissions (tCO2e)	390.0	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

	Additional Detail
Estim. GHG Emissions Reduction (tCO2e)	LED upgrades can result in direct emissions reductions, and water savings can result in indirect reductions (cost and emissions).
5-15 tCO2e	
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

Restroom upgrades to incorporate efficiency measures translate to both energy and water savings. These changes can directly impact the City's emissions trajectory being Scope 1,2 emissions, as outlined in the CEEP. For short-term and lower cost retrofits, LED lighting and water efficient fixtures and faucets are recommended.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Stratford Public Library
Project Number	F.4
Project Name	New Library Facility Expenses
Start Date and End Date	January 1, 2024 - December 31, 2034

Brief Project Description:
Reserve contribution for future expenses related to a new Library build.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The Library, built in 1903 and last expanded upon in 1974, no longer physically meets the needs of the residents of Stratford. The 2022 SPL Space Needs Study outlined that the library is one third of the size it should be for the current population of Stratford. The space deficit creates significant constrictions and challenges to library operations and ability to serve the community. As such, the Library Board is looking to make a plan for a new library. In doing so, the Board must build a reserve to cover expenses for future studies, drawings, and to contribute to the expenses to build a new library.

B. Project Financials:
(including 1.76% net HST expenses)

	Cost	Additional Detail
4050 Contractors	75,000	R-R11-LIBR
Total Project Cost	\$ 75,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	75,000	R-R11-LIBR
Total Funding	\$ 75,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 75,000	Current
Amount in Future Budget Years		

Description:
The funds will be used to cover expenses for required studies, drawings, and to contribute to the overall expenses of a new library build.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
An investment in a library facility is an investment for all residents in Stratford. With additional space that meets the needs of not just today but that of the future, the library can provide appropriate working and reading areas for visitors, a MakerSpace with sufficient space, social space for networking, library and community programs, and meeting space that can be used by or rented to businesses and community groups. Parking and easy access into the library will no longer be an accessibility issue. Should no additional space be achieved for the library, the space constraints will continue to grow. As our community ages, accessible access will continue to grow and may become a legal risk posed by accommodation issues.

E. Asset Management Plan:
E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

Proposed Retrofit Components	Estimated Savings	Additional Detail
Mechanical System		
Windows		
Lighting		
Insulation Upgrade		
Annual GHG emissions reduction (tCO ₂ e)	6.5	
Service Life GHG emissions (tCO ₂ e)	390.0	
Expected Units Fuel Savings (\$)		

F.3 Climate Lens for Other Purchases

	Additional Detail
Estim. GHG Emissions Reduction (tCO ₂ e)	Recommendations from CEEP for any new builds commissioned by the City include considerations of net-zero buildings with emphasis on energy usage and emissions generation.
>15 tCO ₂ e	
(tCO ₂ e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

A new library building should incorporate the elements of passive house design and aim to achieve net-zero building standards. As this new build has the ability to directly impact the City's emissions trajectory, it is prudent to consider a net-zero build to stay on track our 2030 and 2050 emissions reduction targets. This does come at a higher cost than a conventional build, however adheres to Council's commitment to net-zero by 2050, and delivers a range of co-benefits that can be elaborated in a business case and can be supported by federal/provincial funding.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

**CITY OF STRATFORD 2024 CAPITAL PROGRAM
2025 -2033 CAPITAL FORECAST**

Dept **G. Stratford Police Service**

2024 Project Number	Project Name	Gross Project Costs										Total Project Costs	Funding Sources					Total Funding
		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033		Federal & Prov Funding	Development Charges	Long Term Debt	(specify) Other	Reserves	
Replacement Of Existing Capital Assets and Non DC Eligible New Assets																		
G.1	Desktop Computer refresh	30,600		40,000	42,000		45,000	50,000		55,000	58,000	320,600					320,600	320,600
G.2	Vehicle 4, 11, 12 <3 vehicles>	240,000		349,920			377,914					967,834					967,834	967,834
G.3	CCTV - Expansion - Grant	100,000										100,000	100,000					100,000
G.4	Backup Communication Centre	263,480										263,480	263,480					263,480
G.5	Server Room Expansion	111,870										111,870	100,000			11,870		111,870
G.6	LiveScan Fingerprinting System	40,000										40,000				40,000		40,000
G.7	Chief Admin Vehicle	70,000										70,000				70,000		70,000
G.8	Business Plan Consultant	100,000										100,000				100,000		100,000
	ALPR/ICV Equipment					100,000				150,000		250,000				250,000		250,000
	Admin Vehicle 2		51,000									51,000				51,000		51,000
	ERU Van		51,000									51,000				51,000		51,000
	Drone		60,000									60,000				60,000		60,000
	Vehicle 2		84,239			90,978			98,256			273,474				273,474		273,474
	Vehicle 6		84,239			90,978			98,256			273,474				273,474		273,474
	Vehicle 8		84,239			90,978			98,256			273,474				273,474		273,474
	St Marys Cruiser 1		84,239			90,978			98,256			273,474			273,474			273,474
	Perth South Cruiser		84,239			90,978			98,256			273,474			273,474			273,474
	Canine Vehicle		82,587			89,194			96,330			268,112				268,112		268,112
	D/Chief Admin Vehicle		60,000									60,000				60,000		60,000
	CID Vehicle 1			53,000								53,000				53,000		53,000
	CID Vehicle 2			53,000								53,000				53,000		53,000
	Radio System Upgrade				110,000							110,000				110,000		110,000
	Vehicle 5				85,891				92,762			178,653				178,653		178,653
	Vehicle 11				85,891				92,762			178,653				178,653		178,653
	Vehicle 12				85,891				92,762			178,653				178,653		178,653
	VM Server Replacement				55,000							55,000				55,000		55,000
	Admin Vehicle 1				54,000							54,000				54,000		54,000
	Phone System Server				23,000							23,000				23,000		23,000
	NG911 Dispatch Interface						110,000					110,000				110,000		110,000
	Telephone System Upgrade									180,000		180,000				180,000		180,000
		\$ 955,950	\$ 725,783	\$ 495,920	\$ 541,673	\$ 644,086	\$ 532,914	\$ 328,286	\$ 587,612	\$ 385,000	\$ 58,000	\$ 5,255,223	\$ 463,480	\$ -	\$ -	\$ 546,948	\$ 4,244,796	\$ 5,255,223
New Assets Identified in DC Study																		
	New Police facility (currently unfunded)		30,000,000									30,000,000	\$ 1,000,000	1,000,000	\$ 28,000,000			30,000,000
TOTALS		\$ 955,950	\$ 30,725,783	\$ 495,920	\$ 541,673	\$ 644,086	\$ 532,914	\$ 328,286	\$ 587,612	\$ 385,000	\$ 58,000	\$ 35,255,223	\$ 1,463,480	\$ 1,000,000	\$ 28,000,000	\$ 546,948	\$ 4,244,796	\$ 35,255,223

2024 Capital Project Detail Form

Department and Division	Stratford Police Service
Project Number	G.1
Project Name	Desktop Computer Refresh
Start Date and End Date	January 1, 2024 to December 31, 2024

Brief Project Description:

Refresh the remaining 50% of desktop computers.

A. Project Justification/Contribution to City Services and Strategic Priorities:

Refreshing the Service's desktop computers is critical to ensuring uninterrupted service delivery and continuity of operations. The strategy is to refresh half of the desktop computers in 2023 and the remainder in 2024.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
9030 Equipment	30,600	
Total Project Cost	\$ 30,600	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	30,600	R-R11-POLI
Total Funding	\$ 30,600	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 30,600	
Amount in Future Budget Years		

Description:

Operating budget contribution to reserves in 2024

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Risk of failure of desktop computers which could have serious operational impact.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year		2029
Projected Replacement Cost	\$	40,000
Projected Useful Life		3 years
Service Level Impact		Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Estim. GHG Emissions Reduction (tCO₂e)

<5 tCO₂e

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Additional Detail

An indirect impact on emissions is expected, however more energy efficient equipment does contribute to comparatively reduced energy usage and reflect in overall utility savings.

Explain:

Manufacturers offer Energy Star qualified IT equipment in a number of product categories. Such equipment may use approximately 25% to 40% less energy, on an average, than a standard model. Reduced energy usage is expected to impact emissions generation throughout a facility, and result in comparatively lower energy bills.

This equipment upgrade is directly associated with the Corporate Energy and Emissions Plan, and aligns with recommendations toward 2030 carbon reduction targets.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Stratford Police Service
Project Number	G.2
Project Name	Replacement Police Cruisers
Start Date and End Date	January 1, 2024 to December 31, 2024

Brief Project Description:

Replace three operational cruisers - end of life.

A. Project Justification/Contribution to City Services and Strategic Priorities:

Replace three aging police cruisers that are end of life. Cruisers are on the road 24/7 and form the primary response vehicle for all frontline calls for service. Due to their usage the service has determined a three year life cycle, which strikes a balance between fiduciary responsibility and vehicle/officer safety.

B. Project Financials:

(including 1.76% net HST expenses)

	Cost	Additional Detail
9020 Vehicles	57,000	Remove and install equipment
9020 Vehicles	165,000	three cruisers
9020 Vehicles	18,000	tablets for cruisers
Total Project Cost	\$ 240,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	240,000	R-R11-POLI
Total Funding	\$ 240,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years		

Description:

Operating budget contribution to reserves in 2024.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

The service has established a three year life span for frontline police cruisers. Three cruisers need to be replaced in 2024. These vehicles operate 24/7 and are required to provide emergency response to the community. Each cruiser will be updated with a new computer/workstation.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2027
Projected Replacement Cost	\$ 349,920
Projected Useful Life	3 years
Service Level Impact	

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

		<u>Additional Detail</u>
Conventional Fuel Type	Gasoline	
Estimated Fuel Consumption (litres)	1,200	
Annual GHG emissions (tCO2e)	2.8	
Service Life GHG Emissions (tCO2e)	8.3	Calculation cell updated to reflect est. life of 3 years
Service Life Fuel Costs (\$)	9,360	Calculation cell updated to reflect est. life of 3 years
Alternative Fuel Type	Hybrid	
Estimated Fuel Consumption (litres)	840	
Electricity Consumption (kWh)	-	
Annual GHG emissions (tCO2e)	1.9	
Service Life GHG emissions (tCO2e)	5.8	Calculation cell updated to reflect est. life of 3 years
Expected Operational Savings (\$)	2,808	Calculation cell updated to reflect est. life of 3 years
Emissions Reductions achieved (%)	30	

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

	<u>Additional Detail</u>
Estim. GHG Emissions Reduction (tCO2e)	
(tCO2e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	

Explain:

Replacing three diesel powered vehicles to hybrid vehicles is expected to result in 30% fuel efficiency annually (300 litres) and 40% emissions reduction (3.10 tCO2e) over a service life of 3 years. This fleet replacement is directly associated with the Corporate Energy and Emissions Plan, and aligns with recommendations toward 2030 carbon reduction targets.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Stratford Police Service
Project Number	G.3
Project Name	Closed Circuit TV Program (CCTV)
Start Date and End Date	January 31, 2024 to December 31, 2024

Brief Project Description:
Expansion of CCTV system in an effort to reduce violent crime.

A. Project Justification/Contribution to City Services and Strategic Priorities:
The Stratford Police Service, in partnership with Social Services, was able to secure grant funding for \$100,000 to improve CCTV at various locations within the city. The intent is to deter crime and reduce the potential for violent crime in identified areas. Additionally, it is anticipated that improvements to the existing CCTV system would also provide much needed evidence when a crime does occur in identified areas.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
9030 Equipment	100,000	
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	100,000	Provincial Grant
Total Funding	\$ 100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Current
Amount in Future Budget Years		

Description:

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Potential to not reduce violent crime, gun, and/or gang activity in specified areas. Reduced ability for police to capture potential evidence.

E. Asset Management Plan:
E.1 For a new purchase or construction
Projected Replacement Year N/A
Projected Replacement Cost
Projected Useful Life
Service Level Impact

Explain:
One time grant- assets not planned for replacement.

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)

Not applicable to CEEP

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This upgrade is not directly associated with the Corporate Energy and Emissions Plan, and is estimated to have minimal emissions implications.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Stratford Police Service
Project Number	G.4
Project Name	Backup Communication Centre
Start Date and End Date	January 1, 2024 to December 31, 2024

Brief Project Description:

To develop a hosted backup communication centre with a nearby police partner to not only comply with NG9-1-1 requirements but to ensure continuity of operations for the police service.

A. Project Justification/Contribution to City Services and Strategic Priorities:

With the impending deployment of NG9-1-1 it is imperative that the Stratford Police Service establish a modernized communication centre backup location that, among other requirements, is NG9-1-1 compliant. This option will enable the SPS to maintain critical communications infrastructure in the event that the primary communications centre goes down. The host agency will provide space, equipment, technology, and training to support this initiative.

B. Project Financials:

(including 1.76%
net HST expenses)

	Cost	Additional Detail
9030 Equipment	192,004	SPS Interface and Capital
Other (specify)	47,523	Training time
Other (specify)	23,953	Admin fee
Total Project Cost	\$ 263,480	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	263,480	Year 2 of NG9-1-1 provincial grant
Total Funding	\$ 263,480	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		
Amount in Future Budget Years	\$ 32,735	

Description:

Operational budget contribution to reserves to cover year one.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

NG9-1-1 is set to launch in 2024. The Stratford Police Service, in order to be compliant with CRTC regulations around provisioning NG9-1-1 services, needs to have a functioning backup comm centre. The cost of establishing a backup comm centre was assessed and determined to be too high. A nearby service was consulted and agreed to host a backup location for the SPS. The risk of denying this request is not having 911 services in the SPS jurisdiction. This could adversely affect community safety.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This initiative is not directly associated with the Corporate Energy and Emissions Plan.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Stratford Police Service
Project Number	G.5
Project Name	Server Room Expansion
Start Date and End Date	January 1, 2024 to December 31, 2024

Brief Project Description:
 Establish an additional server room space at 17 George St W, police building.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 The current facility has two small server rooms. Both are at capacity and were never really designed to house the volume of server equipment and hardware that the service currently deploys. With the addition of NG9-1-1 in 2024, the service requires more space to house this equipment. A room within the HQ will be re-purposed to create a new server room space.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
9030 Equipment	82,470	Server racks, UPSs, Switches Electrical, A/C, Labour fiber connections
4050 Contractors	23,400	
9030 Equipment	6,000	
Total Project Cost	\$ 111,870	
Funding Sources	Amount	Additional Detail
Federal or Provincial Funding	100,000	Year 2 of NG9-1-1 provincial grant R-R11-POLI
Reserve or Reserve Fund (specify)	11,870	
Total Funding	\$ 111,870	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year		Current
Amount in Future Budget Years		

Description:
 Cost to be funded by contribution to reserves in 2024.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 The service will not be able to host an NG91-1 solution without this space. This will compromise community safety as it relates to being able to receive and dispatch 911 calls.

E. Asset Management Plan:
E.1 For a new purchase or construction
E.2 For a major repair or rehabilitation of an existing asset
E.3 Is there an asset to be disposed?

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO ₂ e) (tCO ₂ e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	Not applicable to CEEP
--	------------------------

Explain:

This upgrade is not directly associated with the Corporate Energy and Emissions Plan, and is estimated to have minimal emissions implications.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Stratford Police Service
Project Number	G.6
Project Name	LiveScan System
Start Date and End Date	January 1, 2024 to December 31, 2024

Brief Project Description:
Replacement of the LiveScan fingerprint system (hardware).

A. Project Justification/Contribution to City Services and Strategic Priorities:
The LiveScan system is a dedicated digital fingerprint and mugshot solution that the service relies upon. The system is spec'd by the RCMP and specifically designed for use by Canadian police services. The current system is approaching end of life and is due to be replaced in the 2024.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
9030 Equipment	40,000	LiveScan hardware
Total Project Cost	\$ 40,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	40,000	R-R11-POLI
Total Funding	\$ 40,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 40,000	Current
Amount in Future Budget Years		

Description:
To be funded through operational budget contribution in 2024

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
Current system is end of life. Equipment supports statutory requirement for service to capture fingerprints and photographs per relevant legislation.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2034
Projected Replacement Cost	\$ 60,000
Projected Useful Life	10 years
Service Level Impact	Maintain

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)

Not applicable to CEEP

(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

This budget item is not directly associated with the Corporate Energy and Emissions Plan, and is estimated to have minimal emissions implications.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Stratford Police Service
Project Number	G.7
Project Name	Replacement Vehicle - Chief
Start Date and End Date	January 1, 2024 to December 31, 2024

Brief Project Description:
 Replace Chief of Police vehicle.

A. Project Justification/Contribution to City Services and Strategic Priorities:
 Current vehicle assigned to Chief is approaching 200,000kms and is to be replaced.

B. Project Financials:
 (including 1.76% net HST expenses)

	Cost	Additional Detail
9020 Vehicles	70,000	
Total Project Cost	\$ 70,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	70,000	R-R11-POLI
Total Funding	\$ 70,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 70,000	
Amount in Future Budget Years	\$ -	

Description:
 To be funded from operating contribution to reserves in 2024 budget.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:
 Vehicle is accruing mileage and wear and tear. Risk of increased maintenance or breakdown costs if vehicle not replaced.

E. Asset Management Plan:

E.1 For a new purchase or construction

Projected Replacement Year	2024
Projected Replacement Cost	\$ 70,000
Projected Useful Life	5
Service Level Impact	

Explain:

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

Additional Detail

Conventional Fuel Type	Gasoline
Estimated Fuel Consumption (litres)	1,200
Annual GHG emissions (tCO ₂ e)	2.8
Service Life GHG Emissions (tCO ₂ e)	33.3
Service Life Fuel Costs (\$)	37,440
Alternative Fuel Type	Hybrid
Estimated Fuel Consumption (litres)	840
Electricity Consumption (kWh)	
Annual GHG emissions (tCO ₂ e)	1.9
Service Life GHG emissions (tCO ₂ e)	23.3
Expected Operational Savings (\$)	11,232
Emissions Reductions achieved (%)	30

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO₂e)
(tCO₂e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)

Explain:

Replacing one diesel powered vehicle to hybrid option is expected to result in 30% fuel efficiency annually (360 litres) and 40% emissions reduction (23.3 tCO₂e) over a service life of 12 years. This fleet replacement is directly associated with the Corporate Energy and Emissions Plan, and aligns with recommendations toward 2030 carbon reduction targets.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.

2024 Capital Project Detail Form

Department and Division	Stratford Police Service
Project Number	G.8
Project Name	Business Plan Consultant
Start Date and End Date	January 1, 2024 to December 31, 2024

Brief Project Description:

Identify and retain a consultant to help build Service Business Plan, Strategic Plan, and Annual Report

A. Project Justification/Contribution to City Services and Strategic Priorities:

The business plan, strategic plan, and annual report are important processes which will be used to guide the Service in the coming years. Likewise the annual report is an important document which informs the community of service activities. Major changes to the legislation that covers policing in Ontario are coming in 2024 when the Community Safety and Policing Act is set to become law. It is expected that service requirements for the above items will be enhanced as a result of the CSPA.

B. Project Financials: (including 1.76% net HST expenses)		
	Cost	Additional Detail
4050 Contractors	100,000	RFP to be sought
Total Project Cost	\$ 100,000	
Funding Sources	Amount	Additional Detail
Reserve or Reserve Fund (specify)	100,000	R-R11-POLI
Total Funding	\$ 100,000	

C. Impact on Operating Budget Going Forward:

Amount in this Budget Year	\$ 100,000	Current
Amount in Future Budget Years	\$ -	

Description:

To be funded through operational budget contribution in 2024.

D. Benefits and Outcomes of Proceeding with this Item/Risks and Outcomes if not approved:

Better service delivery for the community. Improved structure for the service.

E. Asset Management Plan:

E.1 For a new purchase or construction

E.2 For a major repair or rehabilitation of an existing asset

E.3 Is there an asset to be disposed?

F. Corporate Energy and Emissions Plan:

F.1 Corporate Fleet

F.2 Facility Asset

F.3 Climate Lens for Other Purchases

Additional Detail

Estim. GHG Emissions Reduction (tCO ₂ e) (tCO ₂ e, or tonnes of carbon dioxide equivalent, is a metric measure used to quantify emissions from all greenhouse gases in one standard unit)	Not applicable to CEEP
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Explain:

This budget item is not directly associated with the Corporate Energy and Emissions Plan, and is estimated to have minimal emissions implications.

Note: Procurement Policy shall ensure climate lens and asset management principles are applied.