

Municipality of Port Hope

Capital Projects

Project	3007 Lake Street Shoreline Erosion Protection		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Description

Project Description

Environmental Assessment, Design and Construction for approximately 25m of shoreline protection at the east end of Lake Street in the vicinity of the Chemtron Lagoon.

Project Justification

Zuzek Inc. and SJL Engineering Inc. were retained by the Central Lake Ontario (CLOCA), Ganaraska (GRCA) and Lower Trent Region (LTRCA) Conservation Authorities to develop an updated Shoreline Management Plan (SMP) for their respective Lake Ontario shorelines. The total shoreline length covered by the SMP is approximately 135 km and stretches from Lakeside Neighbourhood Park in Ajax (CLOCA west boundary) to Carrying Place, Quinte West (LTRCA east boundary). Due to prevalent wind and wave directions and geological and physical characteristics, the north shore of Lake Ontario within the project boundaries is predominantly comprised of bank and bluff shorelines that are eroding.

The SMP identifies the Port Hope East Beach and the portion of shoreline fronting Lake Street to feature ad-hoc shore protection in the form of scrap concrete and rubble mound revetments. These structures are generally non-engineered and are in poor to moderate condition. Upgrades should be considered to mitigate erosion. Much of the shore protection described as non-engineered or ad-hoc is in a state of significant disrepair after the record high-water levels experienced in 2017 and 2019. One recommendation for this section of shoreline is that shore protection east of Port Hope and along Lake Street should be upgraded from ad-hoc to well-engineered.

Approximately 25m of this shoreline at the east limits of Lake Street (in the vicinity of Chemtron Lagoon) have significantly eroded from wave action and storm runoff from the road to a point that the waterfront trail is no longer safe for use. Any further erosion will result in potential impact to Lake Street. In this regard, immediate remediation/protection is required. It should be noted that the SMP identifies up to 0.5m of erosion per year in this section if nothing is done.

Municipality of Port Hope

Capital Projects

Project	3007 Lake Street Shoreline Erosion Protection		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	270,000		270,000				
Funding							
Gov't Grants							
Contrib fr FGT R/F	270,000		270,000				
	270,000		270,000				
Funding Total	270,000		270,000				

Municipality of Port Hope

Capital Projects

Project	3007 Lake Street Shoreline Erosion Protection		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Engineering	
Project Type	New Asset	
Replacement Type	Replacement - Similar	
Tax Levy Allocation	Common	
Physical Boundary Location	Urban Port Hope	
Identified in any Council Approved Plan?	No	
Identify Council Approved Plan(s)		
Project Status	Ongoing	
Asset Management Plan (AMP)		
Existing Asset ID #		
Replacement Value Identified in AMP (\$)		
Replacement Year Identified in AMP		
Estimated Useful Life (in years)		
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	4-Jan-2022	
Completion Date	25-Nov-2022	
To be Completed by Finance		
Approval Status	Approved by Council	
GL Account Number		

Municipality of Port Hope

Capital Projects

Project	3007 Lake Street Shoreline Erosion Protection		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3007 Lake Street Shoreline Erosion Protection		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3007 Lake Street Shoreline Erosion Protection		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3007 Lake Street Shoreline Erosion Protection		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3013 Marsh Street Infrastructure Improvements		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Description

Project Description

Marsh Street Infrastructure Improvements from Choate Street to Eldorado Place.

Project Justification

In partnership with Cameco, the project plan is to replace the existing watermain, reline the existing sanitary sewer, construct a new oil/grit separator, and lift station to improve stormwater on Eldorado Place.

The Municipality has been identified to receive an allocation of \$534,173 as part of the Provincial wastewater and stormwater improvement fund. The desired outcome of the projects is to improve municipal wastewater and stormwater systems to lower phosphorus discharges, reduce the likelihood of sewage overflows, and/or improve the quality of stormwater discharges. The intent of this funding will be using it to replace a lift station and add a oil grit separator at the municipal storm sewer system along Eldorado Place that will result in substantial improvements to the quality and the control of storm water discharges to the beachfront and Lake Ontario.

The grant is funding the improvements to the storm sewer system and Cameco Corporation is funding the improvements to the watermain and sanitary sewer, along with a portion of the storm improvements.

Municipality of Port Hope

Capital Projects

Project	3013 Marsh Street Infrastructure Improvements		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	1,214,000		1,214,000				
Funding							
Gov't Grants							
Provincial Grants	534,173		534,173				
	534,173		534,173				
Other							
Other Funding	679,827		679,827				
	679,827		679,827				
Funding Total	1,214,000		1,214,000				

Municipality of Port Hope

Capital Projects

Project	3013 Marsh Street Infrastructure Improvements		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Engineering	
Project Type	Replacement	
Replacement Type	Replacement - Similar	
Tax Levy Allocation		
Physical Boundary Location		
Identified in any Council Approved Plan?	No	
Identify Council Approved Plan(s)		
Project Status		
Asset Management Plan (AMP)		
Existing Asset ID #	Various- See attached in Gallery	
Replacement Value Identified in AMP (\$)		
Replacement Year Identified in AMP	Various	
Estimated Useful Life (in years)	Various	
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	1-Mar-2023	
Completion Date	31-Dec-2023	
To be Completed by Finance		
Approval Status	Approved by Council	
GL Account Number		

Municipality of Port Hope

Capital Projects

Project	3015 Walton St Reconstruction		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Description

Project Description

Walton Street Reconstruction-Phase 2: Pine Street to Mill Street.

Project Justification

Phase 2 of the Walton Street reconstruction project is intended to replace aging infrastructure that has exceeded its useful life; including watermain, sanitary and storm sewers, streetlights, sidewalk, curb and asphalt.

At a special meeting of the Works and Engineering committee on June 22, 2022 Council members reviewed and considered proposed design options and chose to re-instate the road 'as-is' with the exception of removing the existing bump outs at Cavan Street. Given the scope of work required for the second phase of the Walton Street Reconstruction, it was originally expected the construction period would extend over two (2) years. As a result of concerns raised by the community, the two year duration is planned to be amended. The project is to be tendered and awarded in late summer/early fall of 2023. Preliminary work may commence in late 2023 with the balance of the work occurring in 2024. While road closures to vehicle access will be required, these closures will be structured to ensure that pedestrian access to businesses will be maintained throughout the construction period. This can be achieved by providing safety fencing between the road and the buildings along the existing sidewalks. When sidewalk bays need to be removed to replace individual services there would be a temporary sidewalk closure at that location and then the sidewalk replaced with temporary gravel or asphalt. At some point in the construction period the existing sidewalk would be removed and replaced. During the initial curing time temporary ramps over the fresh concrete sidewalk may be required before the new sidewalk can be used.

The Municipality intends to work with the HBIA, Economic Development Staff and other stakeholders to promote the reconstruction as an attraction to draw people downtown to see the construction work and ultimately to visit the shops and businesses in the downtown. The work will be branded to assist with the promotion of the downtown as "Historic Downtown Port Hope's BIG DIG" on a dedicated project page on the municipal website, complete with a dedicated Facebook Page titled the "Walton Weekly".

The budget includes \$16,000 towards the communication strategy (Web page, social media, video, and signage), \$25,000 for bi-weekly window washing, \$8,000 for a dedicated communications/economic development summer student, a pre-construction stakeholder meeting, and a dedicated Construction Ambassador for the project who would be the go-to person to address questions from the public, follow up with business's enquiries, bring various concerns or issues to the attention of the Municipality and/or the Contract Administrator.

While this infrastructure renewal in the downtown is required, it will be disruptive while the work is completed, however once it is completed it will serve the downtown for another 75 to 100 years.

Municipality of Port Hope

Capital Projects

Project	3015 Walton St Reconstruction		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	6,409,000		6,409,000				
Funding							
Tax Levy							
Contrib fr Oper	576,986		576,986				
	576,986		576,986				
Gov't Grants							
Contrib fr FGT R/F	1,190,000		1,190,000				
Contrib fr OCIF FC R/F	560,000		560,000				
	1,750,000		1,750,000				
Utility Rates & Reserves							
Contrib fr Wastewater R/F	701,109		701,109				
Contrib fr Water R/F	538,853		538,853				
	1,239,962		1,239,962				
Other							
Other Funding	2,842,052		2,842,052				
	2,842,052		2,842,052				
Funding Total	6,409,000		6,409,000				

Municipality of Port Hope

Capital Projects

Project	3015 Walton St Reconstruction		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Engineering	
Project Type	Replacement	
Replacement Type	Replacement - Similar	
Tax Levy Allocation		
Physical Boundary Location		
Identified in any Council Approved Plan?	Yes	Resolution 40/2022
Identify Council Approved Plan(s)	2019 Water and Wastewater Rate Study	Project 1020
Project Status	Ongoing	
Asset Management Plan (AMP)		
Existing Asset ID #	Various	See attached file in the Gallery
Replacement Value Identified in AMP (\$)		
Replacement Year Identified in AMP		
Estimated Useful Life (in years)	Various	See attached file in the Gallery
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	2-Jan-2020	
Completion Date	31-Dec-2024	
To be Completed by Finance		
Approval Status	Approved by Council	
GL Account Number	303-000-3015-6900	

Municipality of Port Hope

Capital Projects

Project	3015 Walton St Reconstruction		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3015 Walton St Reconstruction		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3015 Walton St Reconstruction		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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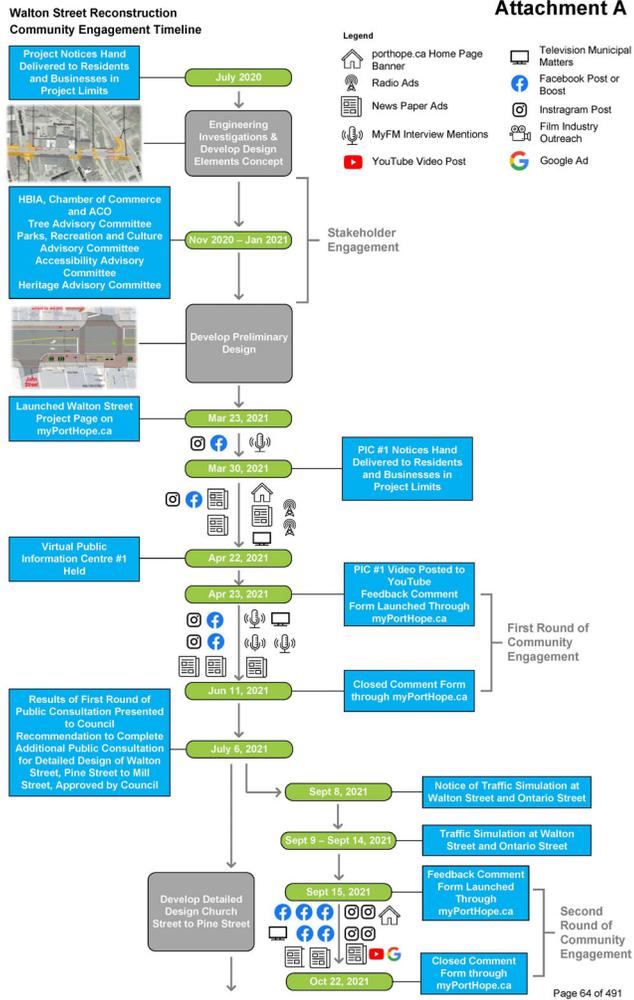
Municipality of Port Hope

Capital Projects

Project	3015 Walton St Reconstruction		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3033 Sylvan Glen Bridge		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Description

Project Description

Sylvan Glen Bridge Replacement.

Project Justification

The Ontario Structure Inspection Manual (OSIM) 2020 report, dated September 23, 2020 by HP Engineering, identifies this bridge as in fair to poor condition and recommends replacement in 1 to 5 years as well as an additional structure evaluation.

The original 12.2m span constructed in 1921 has reinforced concrete T-beams simply supported on the abutment and pier, while the added 7.3m span is also constructed with the same concrete T-Beam type.

Further inspection completed by Jewell Engineering in March 2021 determined that the T-beams of the larger span which was constructed in 1921, have wide cracks, spalls with exposed corroded rebar and stirrups. Testing determined that both the shear and flexural resistance of the exterior and interior Girder/Slab are **not** sufficient to retain a full Ontario Truck and Lane Load specified in Canadian Highway Bridge Design Code 2019. As a result, a load posting was recommended and implemented for the bridge until such time as the bridge is replaced.

Design and Environmental Assessment in 2022 with construction in 2023.

Municipality of Port Hope

Capital Projects

Project	3033 Sylvan Glen Bridge		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	1,800,000		1,800,000				
Funding							
Gov't Grants							
Contrib fr OCIF FC R/F	1,800,000		1,800,000				
	1,800,000		1,800,000				
Funding Total	1,800,000		1,800,000				

Municipality of Port Hope

Capital Projects

Project	3033 Sylvan Glen Bridge		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Engineering	
Project Type	Replacement	
Replacement Type	Replacement - Similar	
Tax Levy Allocation	Common	
Physical Boundary Location	Rural Port Hope	
Identified in any Council Approved Plan?	No	
Plan?		
Identify Council Approved Plan(s)		
Project Status	Ongoing	
Asset Management Plan (AMP)		
Existing Asset ID #	2	
Replacement Value Identified in AMP (\$)	\$1,324,895	
Replacement Year Identified in AMP		
Estimated Useful Life (in years)	75	
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	1-Feb-2022	
Completion Date	31-Dec-2023	
To be Completed by Finance		
Approval Status	Approved by Council	
GL Account Number		

Municipality of Port Hope

Capital Projects

Project	3033 Sylvan Glen Bridge		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3033 Sylvan Glen Bridge		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3033 Sylvan Glen Bridge		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3034 Victoria Street South Reconstruction		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Description

Project Description

Victoria Street South reconstruction from Trafalgar Street to Ridout Street.

Project Justification

Reconstruct the existing roadway from Ridout Street to Trafalgar Street to a 10.0m urban collector road, The project will include new storm sewer and new rain garden, watermain, sanitary sewer, concrete curb and gutter and concrete sidewalk along the entire length. Existing street lighting to be maintained.

Originally intended for construction in 2022, the project was delayed during budget deliberations to enable the Rose Glen Road project to move forward. As a result of the Walton Street reconstruction project, this project is recommended to be deferred until 2024 to mitigate traffic concerns. Through the design process, the existing gas main was identified as being too shallow and requires relocation in advance of construction in 2024. Deferring the project also allows for additional coordination of the Toronto Road watermain replacement work.

Watermain and sanitary sewer are identified in the water and wastewater Rate Study and portions of the road and watermain are identified in the DC Study.

Municipality of Port Hope

Capital Projects

Project	3034 Victoria Street South Reconstruction		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	2,568,276		80,500	2,487,776			
Funding							
Tax Levy							
Contrib fr Oper	57,000			57,000			
	57,000			57,000			
D/C							
Contrib fr Transportation D/C	1,256,090			1,256,090			
Contrib fr Water Services D/C	105,028			105,028			
	1,361,118			1,361,118			
Gov't Grants							
Contrib fr FGT R/F	465,120			465,120			
Contrib fr OCIF FC R/F	80,500		80,500				
	545,620		80,500	465,120			
Utility Rates & Reserves							
Contrib fr Wastewater R/F	307,671			307,671			
Contrib fr Water R/F	296,867			296,867			
	604,538			604,538			
Funding Total	2,568,276		80,500	2,487,776			

Municipality of Port Hope

Capital Projects

Project	3034 Victoria Street South Reconstruction		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Engineering	
Project Type	Replacement	
Replacement Type	Replacement - Similar	
Tax Levy Allocation	Common	
Physical Boundary Location	Urban Port Hope	
Identified in any Council Approved Plan?	Yes	
Identify Council Approved Plan(s)	2019 DC Study, 2020 Water and Wastewater Rate Study	Project R3, R4, W1,1017
Project Status	Ongoing	
Asset Management Plan (AMP)		
Existing Asset ID #	Multiple	See attached file in the Gallery
Replacement Value Identified in AMP (\$)	Various	See attached file in the Gallery
Replacement Year Identified in AMP	Various	
Estimated Useful Life (in years)	Various	See attached file in the Gallery
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	31-Jan-2021	
Completion Date	31-Dec-2022	
To be Completed by Finance		
Approval Status	Approved by Council	2021 Budget Approved \$228,779 for a total project cost request of \$1,916,555. Deferred during 2022 budget - Updated cost in 2022 to \$2,487,776
GL Account Number	303-000-3034-6900	

Municipality of Port Hope

Capital Projects

Project	3034 Victoria Street South Reconstruction		
Department	Engineering		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3039 Walker Road Rehabilitation		
Department	Roads		
Version	04 Approved by Council	Year	2023

Description

Project Description

Walker Road rehabilitation strategy.

Project Justification

The Walker Road rehabilitation strategy was approved as part of the 2022 budget. The project was tendered in June 2022, with two bids received. The low bid was approximately \$110,000 over budget, with the high bid being \$150,000 over budget. In order to move this project forward in 2023, an additional \$150,000 is being requested.

Municipality of Port Hope

Capital Projects

Project	3039 Walker Road Rehabilitation		
Department	Roads		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	150,000		150,000				
Funding							
Tax Levy							
Contrib fr Oper	50,000		50,000				
	50,000		50,000				
Gov't Grants							
Contrib fr FGT R/F	100,000		100,000				
	100,000		100,000				
Funding Total	150,000		150,000				

Municipality of Port Hope

Capital Projects

Project	3039 Walker Road Rehabilitation		
Department	Roads		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Roads	
Project Type	Betterment	
Replacement Type	Replacement - Similar	
Tax Levy Allocation	Common	
Physical Boundary Location	Rural Port Hope	
Identified in any Council Approved Plan?	No	
Plan?		
Identify Council Approved Plan(s)		
Project Status	Ongoing	
Asset Management Plan (AMP)		
Existing Asset ID #	28758	
Replacement Value Identified in AMP (\$)	\$41014 note: this is a betterment to a 300m section of this asset	
Replacement Year Identified in AMP	2017	
Estimated Useful Life (in years)	40	
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	22-May-2021	
Completion Date	25-Nov-2022	
To be Completed by Finance		
Approval Status	Approved by Council	2021 Budget Approved \$50,000 for a total project cost request of \$500,000.
GL Account Number	302-000-3039-6900	

Municipality of Port Hope

Capital Projects

Project	3039 Walker Road Rehabilitation		
Department	Roads		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3039 Walker Road Rehabilitation		
Department	Roads		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3064 Flail Mower Attachment Replacement		
Department	Roads		
Version	04 Approved by Council	Year	2023

Description

Project Description

Trackless Flail Mower attachment replacement.

Project Justification

Originally purchased in conjunction with a 2008 model Trackless and currently fitted to a newer 2017 model Trackless. The flail mower is used to cut grass along the ditches and right of ways within the urban environment.

The flail mower has endured several repairs during its life cycle and experiences frequent down time due to breakdowns. The complete cutter head was worn out beyond repair and replaced in 2015. This newer cutter head is displaying similar signs of wear and tear as the original. Notable issues are a cracked hydraulic tank which leaks oil, high stress points on the boom arms have been plated and welded multiple times to repair cracking issues, leaking hydraulic cylinders, exhibits lower than normal hydraulic operating pressures due to wear and tear.

There is low confidence that this mower attachment will sustain another season without requiring extensive repairs.

Other Revenue - Reallocation of funds from Project 3070 Baulch Rd. Drainage Improvements

Municipality of Port Hope

Capital Projects

Project	3064 Flail Mower Attachment Replacement		
Department	Roads		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	45,000		45,000				
Funding							
Tax Levy							
Contrib fr Oper	25,000		25,000				
	25,000		25,000				
Municipal Reserves							
Contrib fr Capital Surplus Res	20,000		20,000				
	20,000		20,000				
Funding Total	45,000		45,000				

Municipality of Port Hope

Capital Projects

Project	3064 Flail Mower Attachment Replacement		
Department	Roads		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Roads	
Project Type	Replacement	
Replacement Type	Replacement - Similar	
Tax Levy Allocation	Common	
Physical Boundary Location		
Identified in any Council Approved Plan?	No	
Identify Council Approved Plan(s)		
Project Status		
Asset Management Plan (AMP)		
Existing Asset ID #	Attachment for Asset 913	
Replacement Value Identified in AMP (\$)	not identified in AMP \$45,000	
Replacement Year Identified in AMP		
Estimated Useful Life (in years)		
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	31-Dec-1969	
Completion Date	31-Dec-1969	
To be Completed by Finance		
Approval Status	Approved by Council	
GL Account Number		

Municipality of Port Hope

Capital Projects

Project	3064 Flail Mower Attachment Replacement		
Department	Roads		
Version	04 Approved by Council	Year	2023

Gallery

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Municipality of Port Hope

Capital Projects

Project	3080 Rural Roads Resurfacing		
Department	Roads		
Version	04 Approved by Council	Year	2023

Description

Project Description

Annual Rural Roads Resurfacing.

Project Justification

Road segments resurfaced with two lifts of high float surface treatment:

Roadway	From - To	Amount
Deer Park Road	County Road 2 to 4th Line	\$148,000
4th Line	Deer Park Road to Mastwoods Road	\$52,000
Mastwoods Road	4th Line to 2500 meters	\$187,000
Beavermeadow Road	County Road 9 to 1700 meters	\$127,000
Total		\$514,000

Municipality of Port Hope

Capital Projects

Project	3080 Rural Roads Resurfacing		
Department	Roads		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	650,000		650,000				
Funding							
Tax Levy							
Contrib fr Oper	250,000		250,000				
	250,000		250,000				
Gov't Grants							
Contrib fr OCIF FC R/F	400,000		400,000				
	400,000		400,000				
Funding Total	650,000		650,000				

Municipality of Port Hope

Capital Projects

Project	3080 Rural Roads Resurfacing		
Department	Roads		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Roads	
Project Type	Replacement	
Replacement Type	Replacement - Similar	
Tax Levy Allocation	Common	
Physical Boundary Location	Rural Port Hope	
Identified in any Council Approved Plan?	No	
Identify Council Approved Plan(s)		
Project Status		
Asset Management Plan (AMP)		
Existing Asset ID #	various	
Replacement Value Identified in AMP (\$)		
Replacement Year Identified in AMP		
Estimated Useful Life (in years)		
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	31-Dec-1969	
Completion Date	31-Dec-1969	
To be Completed by Finance		
Approval Status	Approved by Council	
GL Account Number		

Municipality of Port Hope

Capital Projects

Project	3081 Fuel controller-rural yard		
Department	Roads		
Version	04 Approved by Council	Year	2023

Description

Project Description

Fuel Meter Controller and Software integration for Rural Fuel Pumps

Project Justification

As staff are developing a more effective Fleet Management Strategy, it has become apparent that information coming from the fuel pump software in the urban area is essential. It provides us with current trends and data as it relates to each fleet asset. This software is providing not just fuel requirements but also odometer, hours of usage and annual usage patterns. By adding this controller to the rural fuel pumps and integrating it's readings into our already existing fuel software we can gain information from the assets in Rural Works, Fire Station 2 and Fire Station 3 Fleet. This information can integrate into our CityWide Asset Management Software, making management strategies and decisions better informed and reportable in a consistent manner for the entire municipal fleet and equipment.

Municipality of Port Hope

Capital Projects

Project	3081 Fuel controller-rural yard		
Department	Roads		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	29,000		29,000				
Funding							
Tax Levy							
Contrib fr Oper	29,000		29,000				
	29,000		29,000				
Funding Total	29,000		29,000				

Municipality of Port Hope

Capital Projects

Project	3081 Fuel controller-rural yard		
Department	Roads		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Roads	
Project Type	New Asset	
Replacement Type	Replacement - Similar	
Tax Levy Allocation	Common	
Physical Boundary Location	Rural Port Hope	
Identified in any Council Approved Plan?	No	
Plan?		
Identify Council Approved Plan(s)		
Project Status		
Asset Management Plan (AMP)		
Existing Asset ID #		
Replacement Value Identified in AMP (\$)		
Replacement Year Identified in AMP		
Estimated Useful Life (in years)	10	
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	1-Mar-2023	
Completion Date	1-Sep-2023	
To be Completed by Finance		
Approval Status	Approved by Council	Deferred to 2022 Budget
GL Account Number		

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

Description

Project Description

Budget Design for the replacement of a 1400mm dia. corrugated steel pipe (CSP) on East Townline Road located approx. 0.3km south of County Road.

Project Justification

East Townline Road is a boundary road between the Municipality of Port Hope and the Municipality of Clarington. By means of a boundary road agreement between the municipalities the subject road is Clarington's responsibility for general maintenance and repair. Any construction costs related to improvements in the excess of \$10,000 shall be shared equally, subject to each Municipality's budget approval.

Clarington has approached Port Hope to consider the future replacement of a failing 16m x 1400mm CSP cross culvert located approx. 0.3km south of County Road 2. Clarington's culvert appraisal from 2021 explaining the deficiencies with projected construction/rehab costs is attached in the gallery.

To define the scope of work and associated costs to perform this culvert replacement Clarington has inquired about having a budget design performed. The costs of this project represents 50% of the total cost with the remaining 50% the responsibility of Clarington.

It is anticipated that the culvert replacement will be scheduled for consideration in the 2024 budget deliberations.

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	20,000		20,000				
Funding							
Municipal Reserves							
Contrib fr Capital Surplus Res	20,000		20,000				
	20,000		20,000				
Funding Total	20,000		20,000				

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Roads	
Project Type	Replacement	
Replacement Type	Replacement - Similar	
Tax Levy Allocation		
Physical Boundary Location		
Identified in any Council Approved Plan?	No	
Identify Council Approved Plan(s)		
Project Status		
Asset Management Plan (AMP)		
Existing Asset ID #	No ID	
Replacement Value Identified in AMP (\$)		
Replacement Year Identified in AMP		
Estimated Useful Life (in years)		
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	31-Dec-1969	
Completion Date	31-Dec-1969	
To be Completed by Finance		
Approval Status	Approved by Council	
GL Account Number		

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

Gallery

C:\Users\beckett\Documents\Culvert Appraisal\Culvert Appraisal 0985131024_1.jpg

MUNICIPAL CULVERT APPRAISAL

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A. IDENTIFICATION			
Culvert Name:	Lot 1, Conc 1, Clarke	Culvert No.:	098513
Road Name:	East Townline Rd	Road Section No.:	98505
Location:	0.3 km S of Highway 2	MTO Site No.:	021-0000-
Roadside Env.:	R	Posting Sign:	t t t
Posting:	t t t	Low Clearance Sign:	Narrow Structure Sign:
Bylaw No.:	Easting: 704571	Federal Nav. Waterway:	No
Bylaw Exp. Date:	Northing: 4888745	Culvert Value:	\$204,000
		Old ID:	

B. RAILWAY OVERPASS/UNDERPASS			
Railway Level Crossing Number:		Original Board Order Number:	
Railway Company:		Date:	
Railway Subdivision:		Current Board Order Number:	
Subdivision Mileage:		Date:	
Transport Canada Crossing No.:		Seniority:	
Number of Tracks:	0		

C. JURISDICTION			
Owner:	10402	Special Designation:	Local / Area Municipality (Upper Tier Only)
Owner Share:	50.00 %	Designation 2	Geo Area Clarke
<input checked="" type="checkbox"/> Shared?		Adjacent Culvert No.:	Insp Area Struct Even Year
Shared With:	61409		Patrol: Maint Area 3
Heritage Status:	R		

D. EXISTING CONDITIONS			
Year Constructed:	1970	Cell/Span Wtd/Dia.:	1.4 m
Year Extended:		Total Width/Dia.:	1.4 m
Material Type:	CST - PA	Max Height:	1.0 m
Crossing Skew:	L-15 °	Length:	16.0 m
No of Cells/Spans:	1	Type/Depth of Fill:	E 1.0 m
		Culvert Floor:	SC
----- ROAD OVER CULVERT -----			
Existing Road Class:	300	Platform Width:	8.0 m
Operational Status:	2W - OAT	Surface Width:	6.4 m
Surface Type:	LCB	No. of Lanes:	2.0
		Safety Curb/ Sidewalk and Curb:	(A) N / E 0.0 m (B) N / W 0.0 m
		Roadside Safety:	(A) E NO (B) W NO
----- ROAD THROUGH CULVERT -----			
Existing Road Class:		No. of Lanes:	
Operational Status:		Median Type/Width:	/ m
Opening Width:	m	Safety Curb/ Sidewalk and Curb:	/ m
Surface Width:	m	Traffic Barrier:	
		Min Vertical Clearance:	m

E. TRAFFIC DATA			
Legal Speed Limit:	50	Traffic Count	10 Year Traffic Forecast
Route Designations:		Year: A-2007-C	Year: 2017
<input type="checkbox"/> Bus	<input type="checkbox"/> Truck Route	AADT: 231	AADT: 277
<input checked="" type="checkbox"/> School	<input type="checkbox"/> Bicycle	DHV Factor: %	DHV Factor: %
		DHV: vph	DHV: vph
		Trucks: 3.00 %	Trucks: 3.0 %
Source:		Peak Directional Split: %	Capacity: 0 vph
Road: 98505 master record		10 Year Growth Factor: 1.20	20 Year AADT: 332

F. INSPECTIONS			
Date:	11/17/2020	Inspected By:	Craig Sinclair
		Approved By:	D. Baxter, P.Eng.

Municipality: Municipality of Clarington Culvert No.: 098513

Municipality of Clarington Culvert No.: 098513

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

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MUNICIPAL CULVERT APPRAISAL

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G. CULVERT NEEDS				
Field	MCR	PCR	TON	Comments
Barrel	4	3	1-5	
Foundations	5	5	6-10	
Guardrail/Barrier	0	0	ADEQ	
Inlet Component	0	0	ADEQ	
Outlet Component	0	0	ADEQ	
Streams/Waterways	3	6	1-5	

H. FUNCTIONAL NEEDS				
Field	Existing	Min Tolerable	Time of Need	Comments
Road Over Culvert				
RO-Platform Width	8	6.5	ADEQ	Proj Class: 300, 277 (10 YR, 231*1.2)
RO-Level of Service	A	E	ADEQ	
RO-Roadside Safety	2	3	ADEQ	

Recommended Needs							
Impr.Class	Improvement	Description	Time of Need	Year	Base/Const Cost	Eng/Cont	Total
Const	cREC	Remove Existing Culvert	1-5	0	26,000	9,000	35,000
Const	cRSL	Replace Culvert Same Location	1-5	0	63,000	22,000	85,000
			Const Subtotal:		89,000	31,000	120,000
Const Extra	ccAPP	Approaches	1-5	0	50,000	18,000	68,000
Const Extra	ccMB	Mobilization / Bonds	1-5	0	7,000	2,000	9,000
Const Extra	ccRIO	Rehabilitate Inlet/Outlet Treatments	1-5	0	25,000	9,000	34,000
Const Extra	ccUNW	Unwatering	1-5	0	20,000	7,000	27,000
			Const Extra Subtotal:		102,000	36,000	138,000

I. ENGINEERING RECOMMENDATIONS			
Culvert Drawings:			
Estimated Posting:	t		
Evaluated Posting:	t	t	t
Closure Date/Type:			
Closure Type:			
Monitoring:			
Monitoring Component:			

J. DESIGN PARAMETERS	
Design Class:	RLHU
Design Platform Width:	9.0
Material/Type:	CPS - PR
Width/Diameter:	1.4
Maximum Height:	1.4
Culvert Length:	16.0
No. of Culverts:	1
Depth of Fill:	1.0

K. IMPROVEMENT COSTS	
Total Construction/Rehab	258,000
Total Inspection	0
TOTAL	258,000
10402 share @50%	129,000
61408 @50%	129,000

Municipality of Port Hope

Capital Projects

Project

3082 Budget Design - Culvert Replacement - East Townline Rd

Department

Roads

Version

04 Approved by Council

Year

2023

Gallery

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MUNICIPAL CULVERT APPRAISAL

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INSPECTION NOTES

Culvert No.: 098513

Culvert No. 098513, East Townline Road, 0.30 km South of Highway 2, Municipality of Clarington:

- Structure is not posted with a load limit.
- 1.4 m+- single span corrugated sheet steel pipe arch culvert with approximately 1.0 m of earth fill and a surface treated roadway.
- No traffic protection is provided over the structure or on the approaches.
- Surface treated roadway is in generally good condition with minor to moderate deterioration.
- Vegetated roadway embankments are in generally good condition with light to medium erosion at the outlet.
- Corrugated sheet steel pipe arch culvert is in poor to fair condition with light corrosion of the barrel invert. Localized areas of medium corrosion. Barrel is separating at the West end with heaving of the barrel invert and severe undermining - approximately 3.1m (where the barrel is separating there is active leakage under the barrel causing undermining). Localized perforation on invert near midspan. The barrel is settling at West end where severe undermining is occurring.
- Watercourse is unobstructed with minor scour at the inlet and and medium scour at the outlet. Severe undermining of the culvert outlet was noted.
- No serious evidence of structural distress.
- Structure does not require posting with a load limit.
- Replace - replace culvert including outlet feature for fish passage.

L. HISTORY/ GENERAL

Culvert No.: 098513

Municipality of Clarington

Culvert No.: 098513

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

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MUNICIPAL CULVERT APPRAISAL

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Comments: LOOKING NORTH AT ROADWAY OVER CULVERT
Path: P:\Clarington\2020\P1340887.jpg



Comments: LOOKING SOUTH AT ROADWAY OVER CULVERT
Path: P:\Clarington\2020\P1340885.jpg

Municipality of Clarington

Culvert No.: 098513

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

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MUNICIPAL CULVERT APPRAISAL

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Comments: EAST ELEVATION
Path: P:\Clarington\2020\P1340888.jpg



Comments: WEST ELEVATION
Path: P:\Clarington\2020\P1340702.jpg

Municipality of Clarington

Culvert No.: 098513

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

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MUNICIPAL CULVERT APPRAISAL

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Comments: LOOKING EAST THROUGH BARREL FROM END
Path: P:\Clarington\2020\IP1340897.jpg



Comments: LOOKING WEST THROUGH BARREL FROM END
Path: P:\Clarington\2020\IP1340889.jpg

Municipality of Clarington

Culvert No.: 098513

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

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MUNICIPAL CULVERT APPRAISAL

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Comments: ELECTRICAL CORD IN BARREL
Path: P:\Clarington\2020\P1340690.jpg



Comments: PERFORATION ON INVERT
Path: P:\Clarington\2020\P1340692.jpg

Municipality of Clarington

Culvert No.: 098513

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

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MUNICIPAL CULVERT APPRAISAL

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Comments: SETTLEMENT OF BARREL AT WEST END
Path: P:\Clarington\2020\P1340693.jpg



Comments: HEAVING OF INVERT
Path: P:\Clarington\2020\P1340694.jpg

Municipality of Clarington

Culvert No.: 098513

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

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MUNICIPAL CULVERT APPRAISAL

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Comments: SEPARATION OF BARREL NEAR WEST END
Path: P:\Clarington\2020\P1340695.jpg



Comments: MODERATE SCOUR OF EMBANKMENT AT OUTLET
Path: P:\Clarington\2020\P1340700.jpg

Municipality of Clarington

Culvert No.: 098513

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

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MUNICIPAL CULVERT APPRAISAL

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Comments: SEVERE UNDERMINING AT OUTLET
Path: P:\Clarington\2020\IP1340703.jpg



Comments: SEVERE UNDERMINING AT OUTLET
Path: P:\Clarington\2020\IP1340705.jpg

Municipality of Clarington

Culvert No.: 098513

Municipality of Port Hope

Capital Projects

Project	3082 Budget Design - Culvert Replacement - East Townline Rd		
Department	Roads		
Version	04 Approved by Council	Year	2023

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MUNICIPAL CULVERT APPRAISAL

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Comments: MEDIUM DETERIORATION OF SURFACE TREATMENT
Path: P:\Clarington\2020\IP\1340888.jpg

Comments:
Path:

Municipality of Clarington

Culvert No.: 098513

Municipality of Port Hope

Capital Projects

Project	3083 Rural Roads Office and Staff Space (HUB)		
Department	Roads		
Version	04 Approved by Council	Year	2023

Description

Project Description

Renovations to the lower unused portion of the HUB located at 5325 County Rd 10 to provide appropriate offices and staff space for the rural roads staff.

Project Justification

The Rural Works garage was constructed in 1997. The building is a large open space that houses many of the departments vehicles/equipment and provides space for their repair.

The Supervisor's office, lunchroom and washroom are all constructed within the center of this open space. These staff spaces are subject to excessive noise, dust/dirt, and diesel exhaust fumes from vehicle operation and repairs, which poses a Health and Safety risk associated with vehicle fumes. The lunchroom is located on the second level, being elevated and at the ceiling of the building the diesel exhaust fumes are much worse as they rise and permeate into this lunchroom space. A recent Ministry of Labour (MOL) inspection identified that the lunchroom was not adequate during the COVID pandemic. This building does not have a separate private office space for Staff to perform work, meetings or training. Staff must share either the Supervisor's office or lunchroom to perform these duties.

There are constant connectivity issues with the Municipal IT infrastructure and internet services. Cell phone reception is very limited and spotty within the building resulting in cell phones only working in certain locations within the building. Call quality is a concern with connections often failing. Quite often Staff must exit the building to receive an adequate signal for cell phone usage. The new Municipal phone system is not assessable for this location requiring a separate phone line for this building. The HUB property and Rural Roads yard are adjacent to one another. Renovations to the lower level would provide the Staffing accommodations and will alleviate all the issues and Health and Safety concerns surrounding the existing building. The lower level will be isolated from the rest of the HUB with the intentions that this area remains a Municipal Staff only space and not open to the public.

Municipality of Port Hope

Capital Projects

Project	3083 Rural Roads Office and Staff Space (HUB)		
Department	Roads		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	45,000		45,000				
Funding							
Tax Levy							
Contrib fr Oper	45,000		45,000				
	45,000		45,000				
Funding Total	45,000		45,000				

Municipality of Port Hope

Capital Projects

Project	3083 Rural Roads Office and Staff Space (HUB)		
Department	Roads		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Roads	
Project Type	Betterment	
Replacement Type	Replacement - Similar	
Tax Levy Allocation	Common	
Physical Boundary Location	Rural Port Hope	
Identified in any Council Approved Plan?	No	
Plan?		
Identify Council Approved Plan(s)		
Project Status	Ongoing	
Asset Management Plan (AMP)		
Existing Asset ID #	8215	
Replacement Value Identified in AMP (\$)		
Replacement Year Identified in AMP		
Estimated Useful Life (in years)	50	
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	1-Jan-2022	
Completion Date	1-Jul-2022	
To be Completed by Finance		
Approval Status	Approved by Council	
GL Account Number		

Municipality of Port Hope

Capital Projects

Project	3090 Transit Bus Replacement		
Department	Transit		
Version	04 Approved by Council	Year	2023

Description

Project Description

Replacement of three (3) Transit Buses.

Project Justification

Port Hope Transit operates with three buses that were all procured in 2019. The transit system cycles approximately 230,000 km annually with each bus sharing this amount driving approximately 76,500 km. All three buses are in roughly the same condition with roughly the same mileage of 285,000 km and are nearing their useful life cycle of 4 years. These assets have seen numerous repairs consistent with their mileage along with other extensive costly motor, exhaust and steering component repairs. It's anticipated that each bus will accumulate a total of 350,000 km by the time replacement vehicles arrive. There is very low confidence as the three buses further age that the transit system will be able to operate without delays or shutdowns due to continuous mechanical failures.

This project is for the procurement of three buses. A grant application has been submitted to the Investing in Canada Infrastructure Program-Public Transit Stream for Federal and Provincial funding support.

Municipality of Port Hope

Capital Projects

Project	3090 Transit Bus Replacement		
Department	Transit		
Version	04 Approved by Council	Year	2023

Budget							
	Total	Prior Years	2023	2024	2025	2026	2027
Expenditures	562,500		562,500				
Funding							
Gov't Grants							
Provincial Grants	185,625		185,625				
Federal Grant	225,000		225,000				
Contrib fr Prov Gas Tax R/F	151,875		151,875				
	562,500		562,500				
Funding Total	562,500		562,500				

Municipality of Port Hope

Capital Projects

Project	3090 Transit Bus Replacement		
Department	Transit		
Version	04 Approved by Council	Year	2023

Attributes		
Attribute	Value	Comment
Attributes		
Department	Transit	
Project Type	Replacement	
Replacement Type	Replacement - Similar	
Tax Levy Allocation	Special Service - Urban	
Physical Boundary Location	Urban Port Hope	
Identified in any Council Approved Plan?	No	
Plan?		
Identify Council Approved Plan(s)		
Project Status		
Asset Management Plan (AMP)		
Existing Asset ID #	17531 & 17533	
Replacement Value Identified in AMP (\$)	\$128,906 each	
Replacement Year Identified in AMP	2023	
Estimated Useful Life (in years)	4	
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	31-Dec-1969	
Completion Date	31-Dec-1969	
To be Completed by Finance		
Approval Status	Approved by Council	
GL Account Number		