

Municipality of Port Hope

Capital Projects

Project	2015 Fire Station 2		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Description
Project Description
Port Hope Fire and Emergency Services- Fire Station 2 Replacement Project Design
Project Justification
<p>Staff are making a recommendation to Council to approve the design budget (\$445,000) for the construction of the replacement Fire Station 2 at 55 Fox Road, Port Hope, 2025.</p> <p>The lands located at 55 Fox Road (3 acres) were purchased by the Municipality for \$255,000 for the purposes of constructing the joint fire/police facility and are still owned by the Corporation. The Port Hope Police Service currently occupy the south end of the property, with the remaining northern section available for site development for the construction of the new Fire Station 2. This project will afford shared training facilities as well as access to shared accommodations such as the existing gymnasium and Police Station.</p> <p>The construction of the proposed replacement Fire Station 2 would be an addition to the north side of the current police station and would reflect the original design of the original fire station project with some variances, including an additional fourth bay as well as administrative office space to house the current full-time fire service and administration personnel.</p> <p>Space within the replacement station would also be allocated for the Municipal Emergency Operations Centre (EOC) which would be utilized to oversee and run municipal emergency management operations. The Municipality is required by regulation to establish and maintain an EOC, which currently is located in the Canton Hub building. The current EOC location is not equipped with a backup power supply or high-speed internet which are key components of an effective EOC in an emergency and the new facility would provide the required elements of a modern Municipal Emergency Operations Centre.</p> <p>The replacement project location and building specifications would ensure that Port Hope Fire and Emergency Services follows applicable regulations and standards:</p> <ul style="list-style-type: none"> ■ Fire Protection and Prevention Act, 1997 (F.P.P.A.) ■ Accessibility for Ontarians with Disabilities Act (AODA), 2005 ■ Industry guidelines as authored by the Office of the Fire Marshal and Emergency Management (O.F.M.E.M.) ■ Industry standards as authored by the National Fire Protection Association ■ Occupational Health and Safety Act, R.S.O. 1990 (O.H.S.A.) <p>The following data supports the replacement Fire Station 2 project:</p> <ul style="list-style-type: none"> Ø The site is currently owned by the Municipality and there would be no cost associated with the purchase of additional lands. The lands were originally purchased for \$255,000 for the purposes of the joint police/fire station project. Ø The site is currently equipped with water, sewer, natural gas, stand by backup power and high-speed internet services (brought to building to service emergency services). There are very limited industrial development areas within the Rural Area, and none that would offer the services available at this location. Ø The existing infrastructure and services can support the construction of the replacement fire hall and the police station's mechanical/electrical systems can be utilized to service the fire station structure (existing electrical, HVAC and back up generator power). Ø The site is within the recommended area as outlined in the Fire Master Plan 2022 for the construction of a new fire station. The location of calls for service and volunteer firefighters as well as response times was taken under consideration when identifying the location. Ø The site is near areas of current and future development at the west end of the Municipality. The Planning and Building departments of the Municipality in September 2022 in relation to this project and commented that many residential buildings are to be constructed (potentially 271 single-family homes). Ø The site provides access to main county roads, municipal roads, and Highway 401. A road allowance is positioned on the east side of the property and provides allow access for emergency vehicles (fire and police). The proximity to Toronto Road, Jocelyn Road and the on-ramps to Highway 401 provide an efficient response utilizing these major roadways. Ø A site plan application was previously made with storm water (MGM Consulting Inc, 2014) and geotechnical surveys (Cambium, 2014) and reports completed with architectural and design drawings which were created by Barry Bryan Associates (BBA) for this project. These reports/drawings support the fact that the site is suitable for the proposed project.

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Project	2015 Fire Station 2		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Budget							
	Total	Prior Years	2025	2026	2027	2028	2029
Expenditures	178,000		178,000				
Funding							
Tax Levy							
Contrib fr Oper	92,560		92,560				
	92,560		92,560				
D/C							
Contrib fr Fire D/C	85,440		85,440				
	85,440		85,440				
Funding Total	178,000		178,000				

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Capital Projects

Project	2015 Fire Station 2		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Attributes		
Attribute	Value	Comment
Attributes		
Department	Fire Services	
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	Ongoing	
Asset Management Plan (AMP)		
Existing Asset ID #	8205	
Replacement Value Identified in AMP (\$)	800000	
Replacement Year Identified in AMP	2029	
Estimated Useful Life (in years)		
Future Annual Impact on AMP (Cost per year)		
Date		
Start Date	Apr 1, 2022	
Completion Date	Dec 31, 2025	
To be Completed by Finance		
Approval Status	Recommended by Finance Committee	
GL Account Number		

Municipality of Port Hope

Capital Projects

Project	2022 Tanker		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Description

Project Description

Purchase and equip a Tanker/Pumper for Station 2 to replace asset ID 817 - 2002 Tanker Pumper Freightliner FL80. Total cost of the project is \$750,000

Project Justification

This project was pre-approved in 2024 for the 2025 Fiscal year, and has been amended after further data collection and analysis in relation to departmental needs.

Asset ID 817 - 2002 Tanker Pumper Freightliner FL80 has surpassed its replacement date per the requirements established by the National Fire Protection Association (NFPA). NFPA identifies a 15 year life span for front line apparatus and 20 year life span for reserve apparatus. This apparatus will be 23 years old in 2025.

The current Tanker Pumper holds 2,500 gallons of water and the replacement Tanker Pumper will hold 3,000 gallons of water. The ability to have more water readily available on scene assists in the extinguishment of a fire and fire fighter safety.

Research has shown that is supported by the Ontario Fire Marshal's Office that due to the nature of construction and building materials fires develop more rapidly than they once did, and this supports the importance of increased water capacity for fire fighting operations. The costs associated with the upgrade from a 2,500 to 3,000 gallon water tank is approximately \$30,000.

The current build time for a truck is approximately 6-12 months, which means that the current pumper will be 23 years of age if the replacement is ordered in 2025. If a stock truck is located the replacement truck could be put into service sooner (1-3 months).

New emission requirements are increasing the cost for engines by approximately \$150,000 - \$200,000 per vehicle. This cost increase has been seen across numerous departments utilizing specialized vehicles.

Moving forward all Fire Department Tankers and Pumpers will be the same design which reduce the need for multiple training and familiarization of vehicles.

Impacts on not replacing:

- * Vehicle is past useful life as indicated in NFPA standards
- * Reduced amount of available water at emergency scenes
- * Increased repair and maintenance costs of existing vehicle including fire fighting equipment (hoses, appliances etc.)
- * Increased lead time on procurement as well as increase in associated replacement cost(s)

Municipality of Port Hope

Capital Projects

Project	2022 Tanker		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Budget							
	Total	Prior Years	2025	2026	2027	2028	2029
Expenditures	750,000		750,000				
Funding							
Tax Levy							
Contrib fr Oper	750,000		750,000				
	750,000		750,000				
Funding Total	750,000		750,000				

Municipality of Port Hope

Capital Projects

Project	2022 Tanker		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Attributes		
Attribute	Value	Comment
Attributes		
Department	Fire Services	
Project Type	Replacement	
Replacement Type	Replacement - Upgrade	
Tax Levy Allocation		
Physical Boundary Location	Rural Port Hope	
Identified in any Council Approved Plan?	Yes	
Identify Council Approved Plan(s)	Fire Master Plan	
Project Status		
Asset Management Plan (AMP)		
Existing Asset ID #	817	
Replacement Value Identified in AMP (\$)	417,000	
Replacement Year Identified in AMP	2022-07-01	
Estimated Useful Life (in years)	20	
Future Annual Impact on AMP (Cost per year)	\$65,000	
Date		
Start Date	Dec 31, 1969	
Completion Date	Dec 31, 1969	
To be Completed by Finance		
Approval Status	Recommended by Finance Committee	
GL Account Number		

Municipality of Port Hope

Capital Projects

Project	2022 Tanker		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Gallery

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Municipality of Port Hope

Capital Projects

Project	2022 Tanker		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Gallery

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Municipality of Port Hope

Capital Projects

Project	2022 Tanker		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Gallery

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Municipality of Port Hope

Capital Projects

Project	2026 Wildland Fire Service Apparatus		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Description

Project Description

Wildland Firefighting Apparatus (Fire Station 3) Total Project Cost: \$110,000

Project Justification

The Municipality of Port Hope consists of a large percentage of rural areas including but not limited to agricultural areas as well as the Ganaraska Forest. Over the past several decades the Provincial resources associated with fire and emergency response in the Forest area has diminished, and the Municipalities in which surround the forest are responsible for emergency responses, including fire suppression.

Fire Station 3 (Garden Hill) has historically been equipped with a Wildland Firefighting Apparatus, but it was removed from the fleet several years ago. A needs assessment, including the Hazard Identification and Risk Assessment of the Municipality has identified forest/wildland fires as potential risks to the community.

This vehicle will be equipped with 300 gallons of water in a "skid unit" that will be utilized as a response unit to reported wildland and grass fires, as well will have the ability to tow the Port Hope Fire and Emergency Services (PHFES) UTV and Trailer to assist with remote rescue operations and emergency scene response. This apparatus is required due to the weight of the water, trailer and UTV and areas in which it will be required to respond to, e.g., remote, forest, fields, etc.

If the project is not carried out PHFES does not currently have a Wildland Apparatus that can respond adequately to a wildland or grass fire which may potentially have adverse effects related to fire safety in our community.

Municipality of Port Hope

Capital Projects

Project	2026 Wildland Fire Service Apparatus		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Budget							
	Total	Prior Years	2025	2026	2027	2028	2029
Expenditures	110,000		110,000				
Funding							
Tax Levy							
Contrib fr Oper	110,000		110,000				
	110,000		110,000				
Funding Total	110,000		110,000				

Municipality of Port Hope

Capital Projects

Project	2026 Wildland Fire Service Apparatus		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Attributes		
Attribute	Value	Comment
Attributes		
Department	Fire Services	
Project Type	Betterment	
Replacement Type		
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 #	17518	
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	Dec 31, 1969	
Completion Date	Dec 31, 1969	
To be Completed by Finance		
Approval Status	Recommended by Finance Committee	
GL Account Number		

Municipality of Port Hope

Capital Projects

Project	2027 SCBA LUNAR Units		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Description
Project Description
Self Contained Breathing Apparatus (SCBA) LUNAR Units (10 Units x \$5,088) Total project value \$50,880
Project Justification
<p>Port Hope Fire and Emergency Services (PHFES) is dedicated to the safety of our residents as well as to the safety of our Firefighters. PHFES has initiated a program in 2022 in which the SCBA units that firefighters wear are equipped with a LUNAR unit.</p> <p>A LUNAR unit provides the following attributes which increase the level of health and safety for firefighters involved in emergency response situations:</p> <ul style="list-style-type: none"> ● Wireless connectivity using LTE-M for local and remote monitoring by Incident Command Staff ● LUNAR-to-LUNAR ad hoc network for connection between LUNAR devices ● Exclusive Firefighting Assistance Search Technology (F.A.S.T.) providing distance and direction. Introducing the concept of collaborative search for quicker identification of the best entry point and search location ● Manual and motion alarm ● Compatibility with MSA G1 SCBA via Bluetooth, providing air status, alarm information, and more. Also can be paired with our Altair 4XR and 5X gas detectors ● Usage on and off air ● Thermal imaging enhanced with edge detection ● Connection to the FireGrid suite of software applications for Local Monitoring, Remote Monitoring, Configuration, Personalization, Post-Scene Reporting, and Inventory Management <p>PHFES has 12 LUNAR units currently in place and would like to increase the number of units by 10 in 2025, and again in 2026. Each unit is approximately \$5,000 and has a 10-year lifespan.</p> <p>Fire services across the Province and throughout North America have initiated the use of this technology to help ensure the safety of firefighters while conducting emergency operations. On average, 22 firefighters at minimum are required to safely conduct interior fire suppression operations, as per NFPA standards.</p> <p>If this project is not undertaken, PHFES will remain with only 12 units and not have the ability to equip front line staff which may be required to conduct emergency response operations.</p>

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Project	2027 SCBA LUNAR Units		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Budget							
	Total	Prior Years	2025	2026	2027	2028	2029
Expenditures	50,880		50,880				
Funding							
Tax Levy							
Contrib fr Oper	50,880		50,880				
	50,880		50,880				
Funding Total	50,880		50,880				

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Capital Projects

Project	2027 SCBA LUNAR Units		
Department	Fire Services		
Version	04 Approved by Council	Year	2025

Attributes		
Attribute	Value	Comment
Attributes		
Department	Fire Services	
Project Type	New Asset	
Replacement Type		
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 #		
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	Dec 31, 1969	
Completion Date	Dec 31, 1969	
To be Completed by Finance		
Approval Status	Recommended by Finance Committee	
GL Account Number		