

Fire Station 2 Replacement Project

Jason Williams

Director, Protective Services and Emergency Management



MUNICIPALITY OF

PORT HOPE



Municipality of Port Hope Fire Station 2 Replacement Project – Information Session

- Introductions
- Background and History
- Data Collection and Analysis
- Station 2 Replacement Project Location
- Impacts on Rural Area
- Communication and Public Engagement
- Conclusion
- Question Period

Municipality of Port Hope Representatives



Background and History



- 4366 County Road 2
- Station 2 built in 1978
- Population has nearly doubled / Highway 401 Traffic volume increased
- Served the community for over 44 years
- Fire Master Plan and Community Risk Assessment completed in 2022
- Prioritize the replacement of Station 2

Background and History

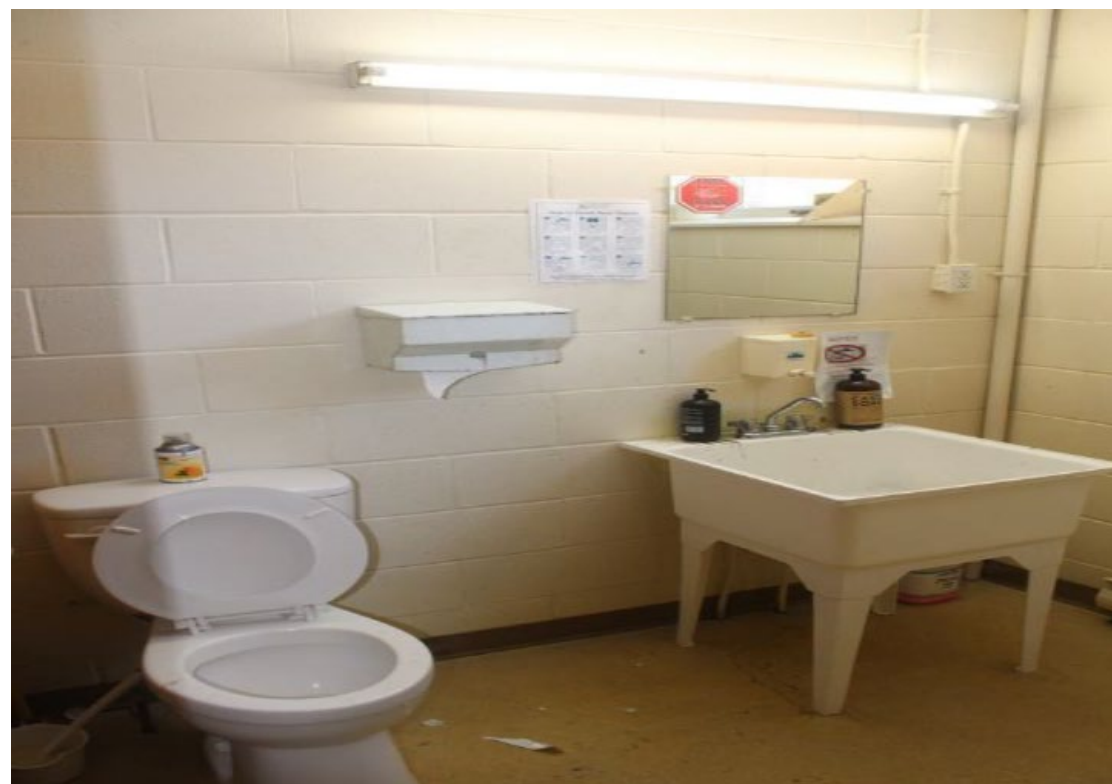
- Station 2 is at the end of its useful lifecycle
- Many changes to the Fire Service over the past 30-40 years (Size/Type Apparatus, Hazards to Firefighters)
- Lack of space – one room is used for training, kitchen facility, and bunker gear cleaning
- Number and type of apparatus limited due to size of station
- Size of the current fleet does not allow room for storage or to work safely
- Limited to only 1 washroom / shower
- Storage of bunker gear in close proximity to vehicles and Volunteer Firefighters (VFF)



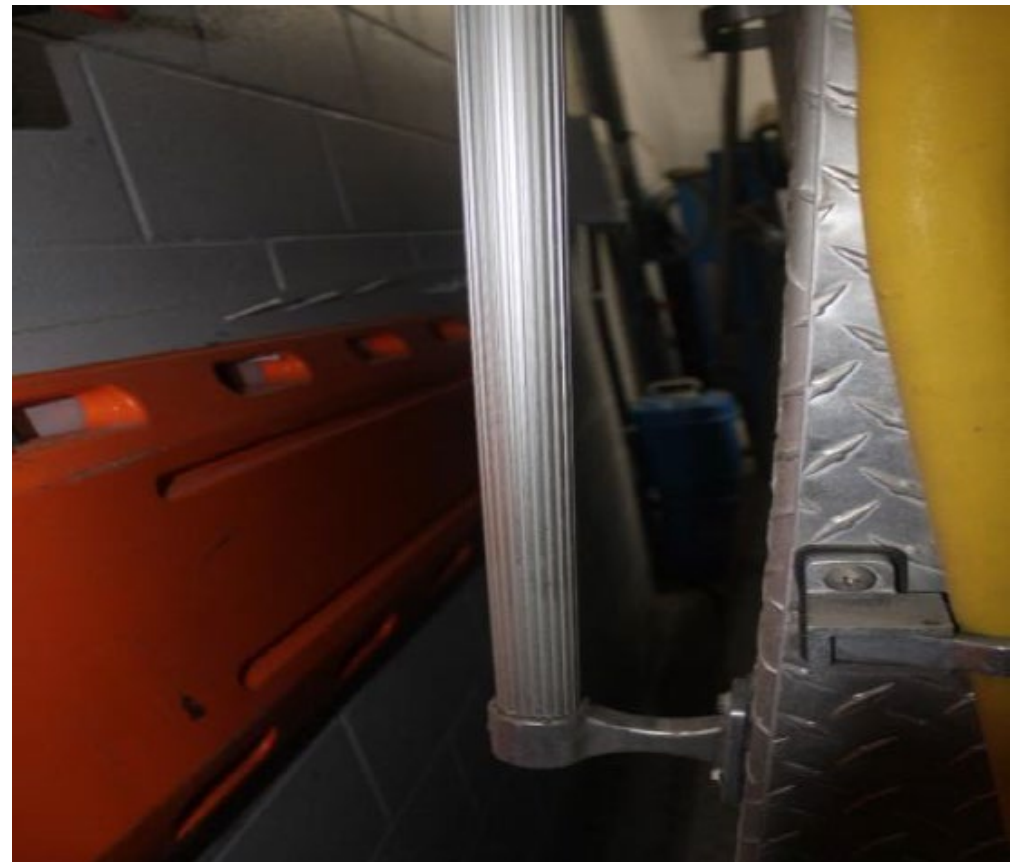
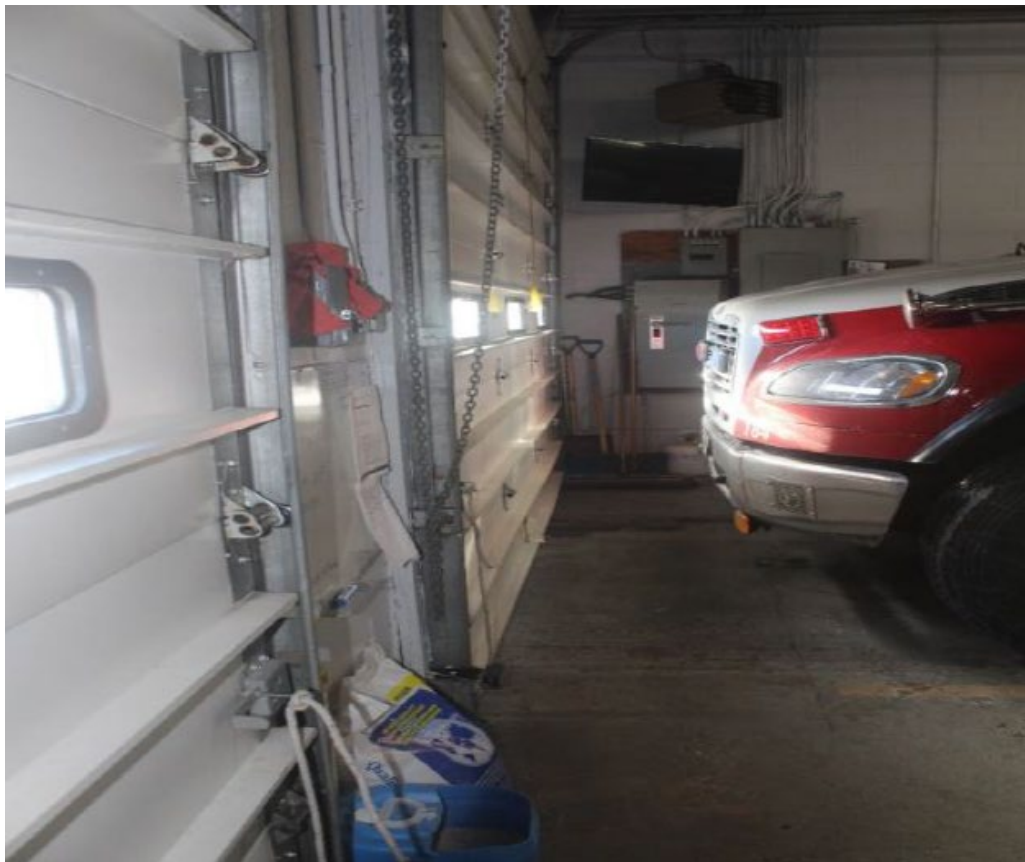
Background and History

- Station 2 does not meet the Accessibility for Ontarians with Disabilities Act (AODA) requirements for public buildings to ensure they are accessible to everyone
- Severe lack of storage space
- Leaking roof – causing fire alarm to activate
- No air conditioning
- No potable water
- No water supply for fire suppression
- No back up power supply / No vehicle emission exhaust system
- Location of Station 2 is in flood plain and cannot be expanded
- EOC (Canton) – no back up power supply

Background and History



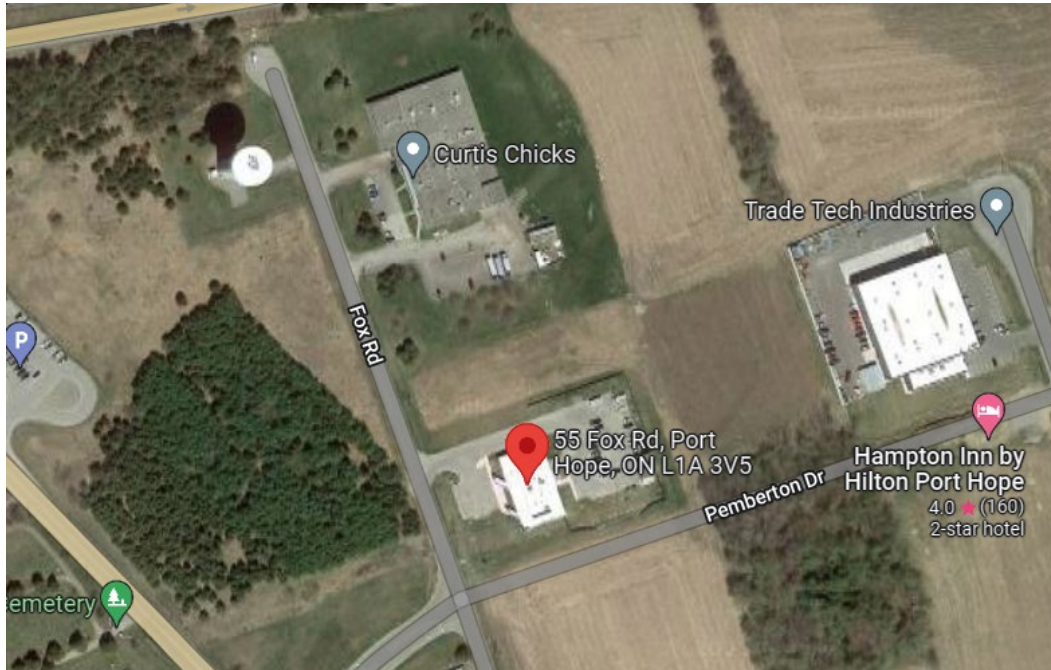
Background and History



Data Collection and Analysis

- In 2013, Council authorized the purchase of land at 55 Fox Road for a joint fire/police station project
- 55 Fox Road was identified as the location through an established working group
- Design and site plan conducted for a joint facility
- 2014 – construction commenced with only the police station component of the project
- Fire station portion not undertaken by Council

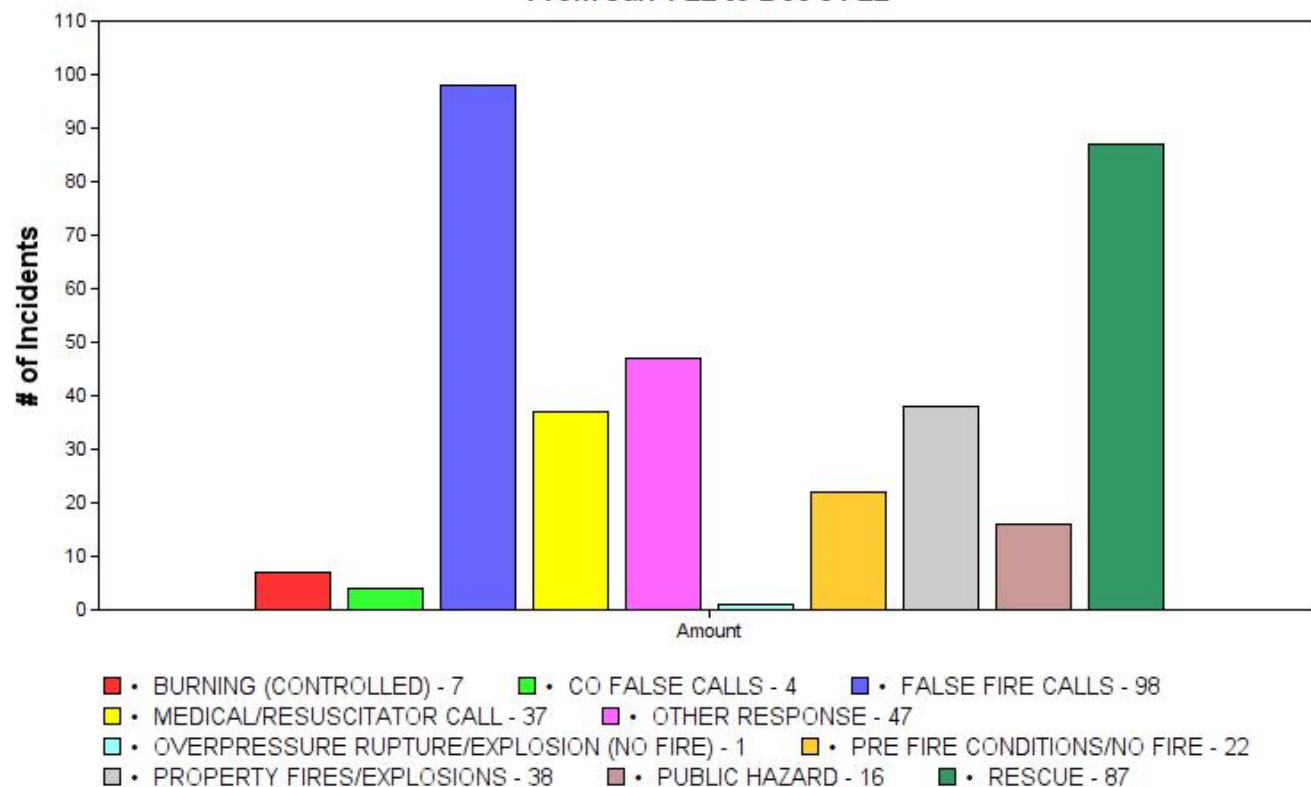
Proposed Location – 55 Fox Road, Port Hope



Data Collection and Analysis

- In 2021, Council approved a \$150,000 capital project for the purposes of potential environmental assessments, architectural drawings and space allocation assessments prior to land acquisition and construction for the Fire Station 2 replacement project
- In 2022, the Fire Master Plan and Community Risk Assessment was completed which included a SWOT (strengths, weaknesses, opportunities, and threats) analysis
- Recommendation made to replace Station 2 with a new facility

Totals by Type (grouped)
From Jan 1 22 to Dec 31 22

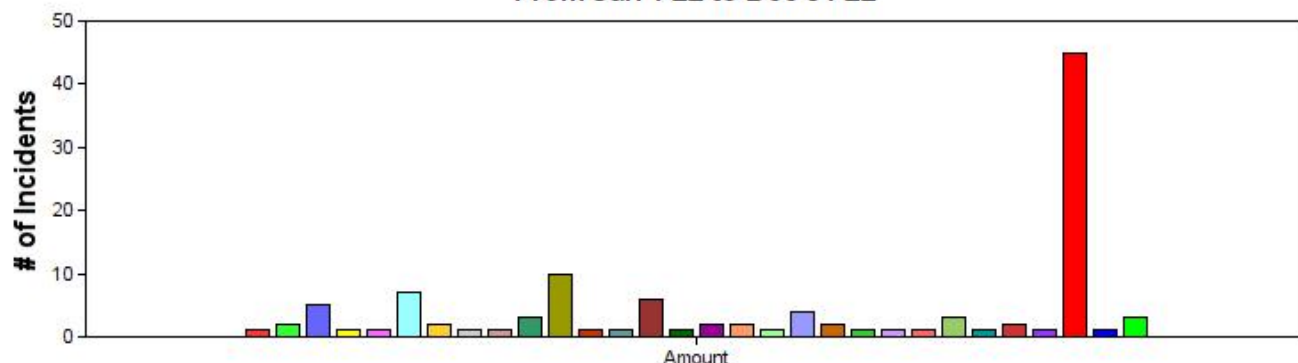


Station 2 Calls for Service

357 calls for service in 2022

Over 25% were motor vehicle collisions (MVC) with a large percentage involving Highway 401 response

Totals by Type
From Jan 1 22 to Dec 31 22



- Accident or illness related - cuts, fractures, person fainted, etc. - 1
- Alarm System Equipment - Accidental activation (exc. code 35) - 2
- Alarm System Equipment - Malfunction - 5
- Assistance to Police (exc 921 and 922) - 1
- Assisting Other FD: Mutual Aid - 1
- Call cancelled on route - 7
- Chest pains or suspected heart attack - 2
- CO false alarm - equipment malfunction (no CO present) - 1
- CO false alarm - perceived emergency (no CO present) - 1
- CO incident, CO present (exc false alarms) - 3
- Fire - 10
- Gas Leak - Natural Gas - 1
- Gas Leak - Propane - 1
- Incident not found - 6
- Medical Aid Not Required on Arrival - 1
- NO LOSS OUTDOOR fire (see exclusions) - 2
- Open air burning/unauthorized controlled burning (no uncontrolled fire) - 2
- Other Cooking/toasting/smoke/steam (no fire) - 1
- Other Medical/Resuscitator Call - 4
- Other Public Service - 2
- Other Rescue - 1
- Overheat (no fire, e.g. engines, mechanical devices) - 1
- Overpressure Rupture (no fire, e.g. steam boilers, hot water) - 1
- Power Lines Down, Arcing - 3
- Rescue no action required - 1
- Seizure - 2
- Spill - Gasoline or Fuel - 1
- Vehicle Collision - 45
- Vehicle Extrication - 1
- Vital signs absent, DOA - 3

Station 2 Incident Response Data

Detailed breakdown of incident response type

MVC highest involved incident response for Station 2

Requires specialized apparatus and equipment – vehicle extrication requirements



Station 2 Calls for Service

Total calls for service in 2022, including assist calls

75% of Station 2 calls for service are for locations south of County Road 2

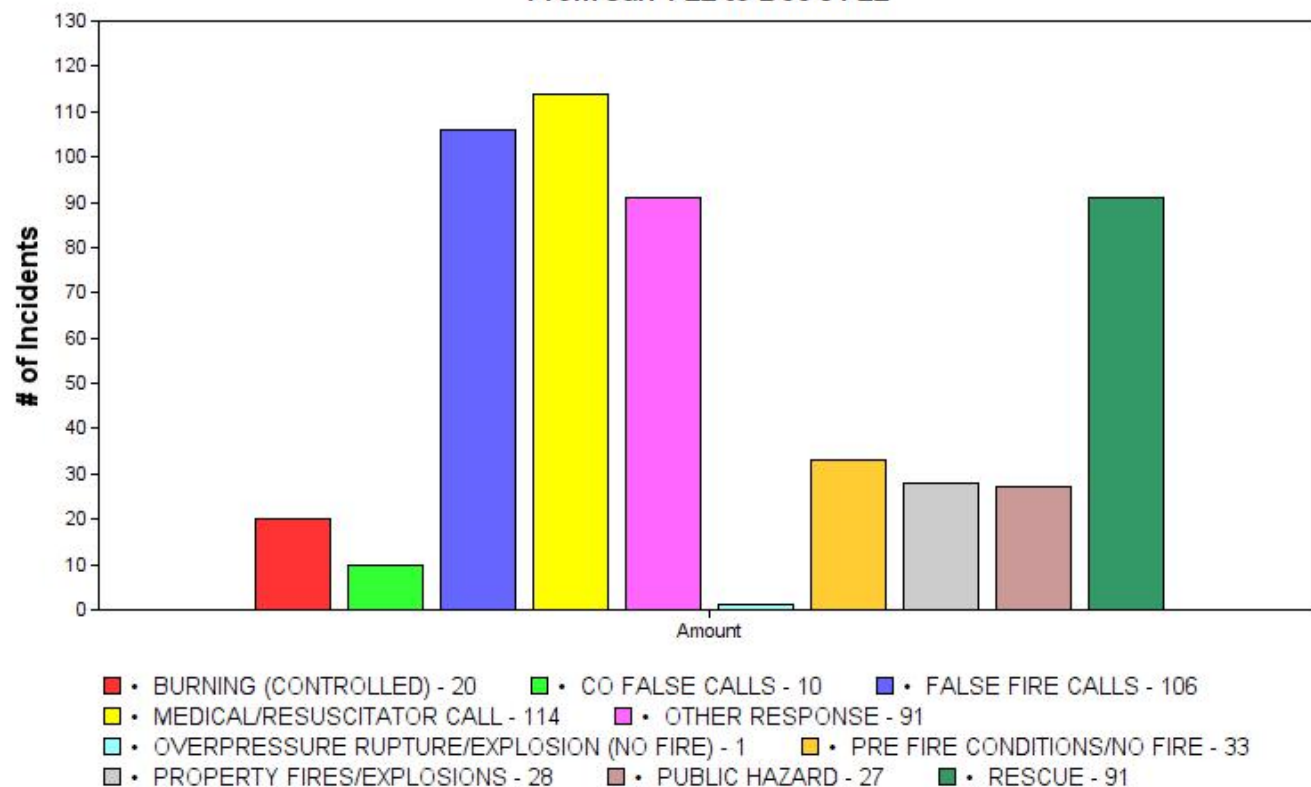
Data Collection and Analysis

An analysis of the Department's response times found that a combined overall average response time for all three (3) stations for the years 2016-2020 was **8.29** minutes. Individual average station response times are as follows:

- Station 1 : **7.25** minutes
- Station 2 : **13.34** minutes
- Station 3 : **11.12** minutes

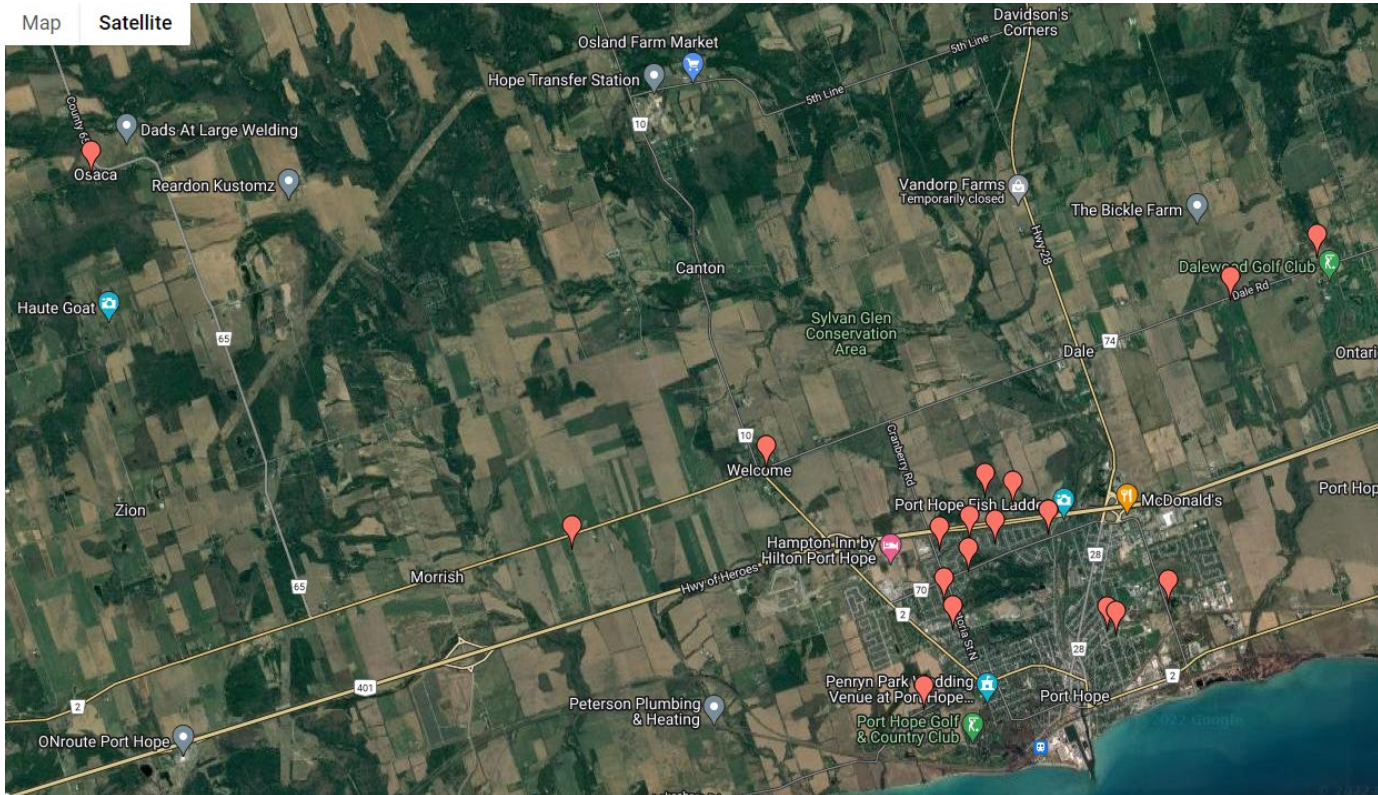
The analysis of the data shows that the current Fire Station 2 has the longest response time, and this is due to the current location of the station and the areas in which volunteer firefighters reside. The proposed location of the replacement station and amended response areas would address the variance in response times between the fire stations within the Municipality.

Totals by Type (grouped)
From Jan 1 22 to Dec 31 22



Station 1 Calls for Service

521 calls for service for Station 1 in 2022



Location of Station 2 Firefighters

18 Volunteer Firefighters report out of Station 2 currently

90% of Station 2 firefighters reside closer to the proposed location of the replacement station in comparison to the current Station 2 location

Proposed location is 2.3 km from the current location of Station 2

Response Time Data Analysis

- Fire cannot control all aspects of response time; rather, it is a combination of controllable and uncontrollable components that must be considered when trying to measure response time.
- Conversely, the assembly time for a volunteer fire service is a non-controllable component because there is no guarantee about how many people will be on hand to respond to an emergency call or how close the people responding to the call will be to the emergency site.
- A variable that is controllable is the location of the station in proximity to fire fighters

Data Collection and Analysis

- In large urban centers that have full-time firefighters and multiple stations, response times are frequently in the range of five to eight (5-8) minutes. In rural areas, response times are often 10 to 20 minutes, depending on the size of the municipality, number and location of fire stations, road network, etc.
- Being able to measure the response time(s) for all emergencies that involve a structure fire is critical because the sooner first responders arrive at the incident, the better their chances for saving lives and limiting property damage.
- Proposed location provides more immediate response by a vast majority (90%) of Firefighters which will lower response times



2022 Community Risk Assessment Data

Proposed location in close proximity to the top 5 identified risks to the Municipality of Port Hope:

- 1) Rail Emergency
- 2) Fire/Explosion Industrial
- 3) Weather Event
- 4) Fire in Residential Occupancy
- 5) Fire in Vulnerable Occupancy

Station 2 Location Proposal – 55 Fox Road

- Lands currently owned by the Municipality
- Site in area recommended by the Fire Master Plan (FMP) and Community Risk Assessment (CRA)
- Site equipped with water, sewer, natural gas, back up power supply, and high-speed internet
- Limited alternative development areas in identified area
- Existing infrastructure of police station can support many of the fire station addition requirements
- Site near area of current and future development within the Municipality (e.g., 271 homes in 2023)

Station 2 Location Proposal – 55 Fox Road

- Provides timely access to main Municipal, County and Provincial roadways and highways which account for 25% of calls
- Previous site plan work completed (Stormwater Management (SWM), Geotechnical) and approvals obtained (Ganaraska Region Conservation Authority (GRCA), Ministry of Transportation (MTO))
- Ideal area to respond to high-risk hazards of community (CRA)
- Site would allow response areas to be modified to alleviate calls for service to Station 1 (521 calls for service in 2022)
- Site would be utilized as Municipal Emergency Operations Centre (EOC) in the event of an emergency situation

Station 2 Location Proposal – 55 Fox Road

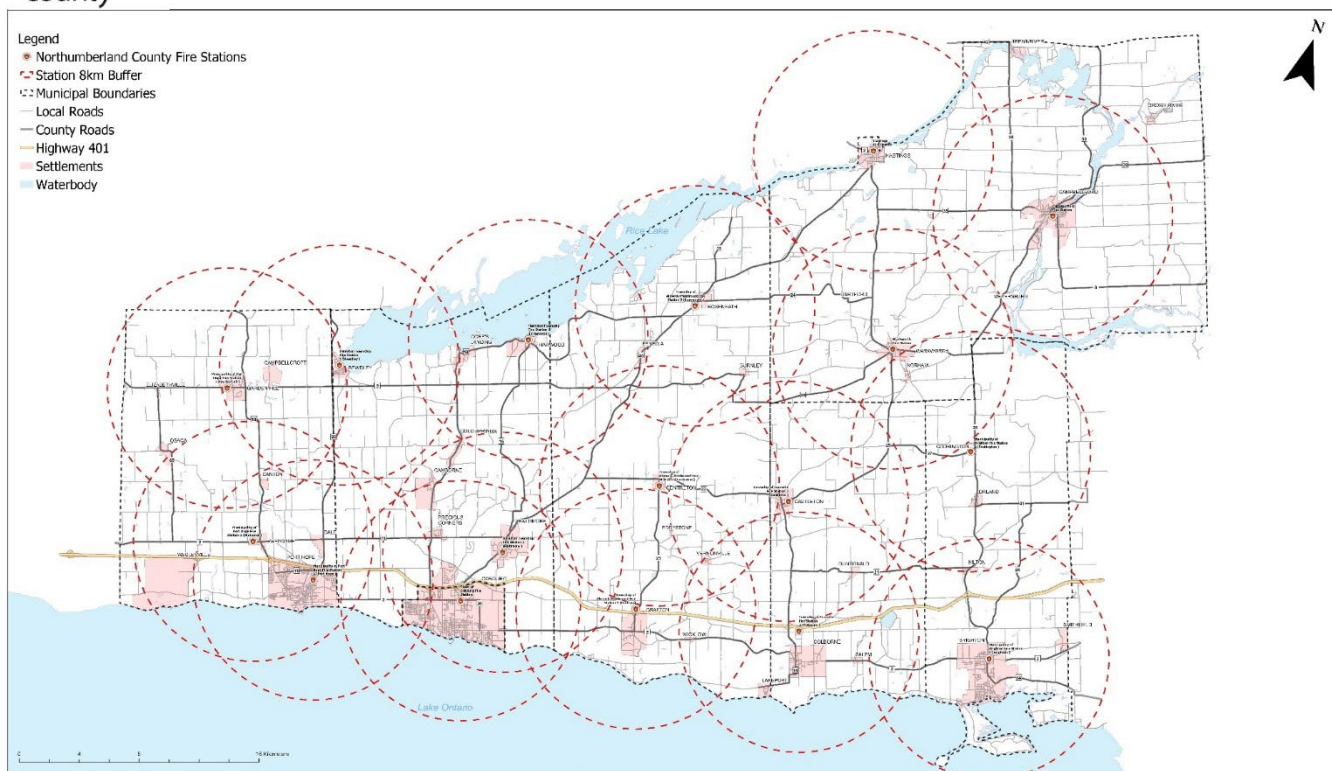
- Replacement Station 2 would provide accommodation for full-time fire service administration/management staff. This would allow full-time staff to respond to emergency calls from this location when required, which would further decrease response times
- Project supported by Port Hope Police Chief and staff
- Project supported by Port Hope Fire and Emergency Services (PHFES) Firefighters, Officers and Management

Impacts on Rural Area

- Proposed location is approximately 2.3 km from current station
- New location would provide for a more effective and efficient emergency response from PHFES due to location of volunteer firefighters and calls for service
- Would not require use of cisterns for water supply
- PHFES has Water Tanker Shuttle Accreditation
- Property owners within 8 km radius of fire station may receive reduction on insurance premium – average \$250/year
- Proposed location would still encompass communities of Welcome and Canton
- Proposed location may offer additional Municipal Services to residents - such as garbage tags, dog licences, tax payments, etc.



Existing 8 km Buffer from Fire Stations



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Port Hope Fire and Emergency Services

The 8 km response radius from the proposed new location would have a limited change to Rural residents

The 8 km radius from Station 3 and the proposed new location of Station 2 overlap

Proposed new location will afford residents of Port the benefit of a Tanker Shuttle Accreditation where applicable

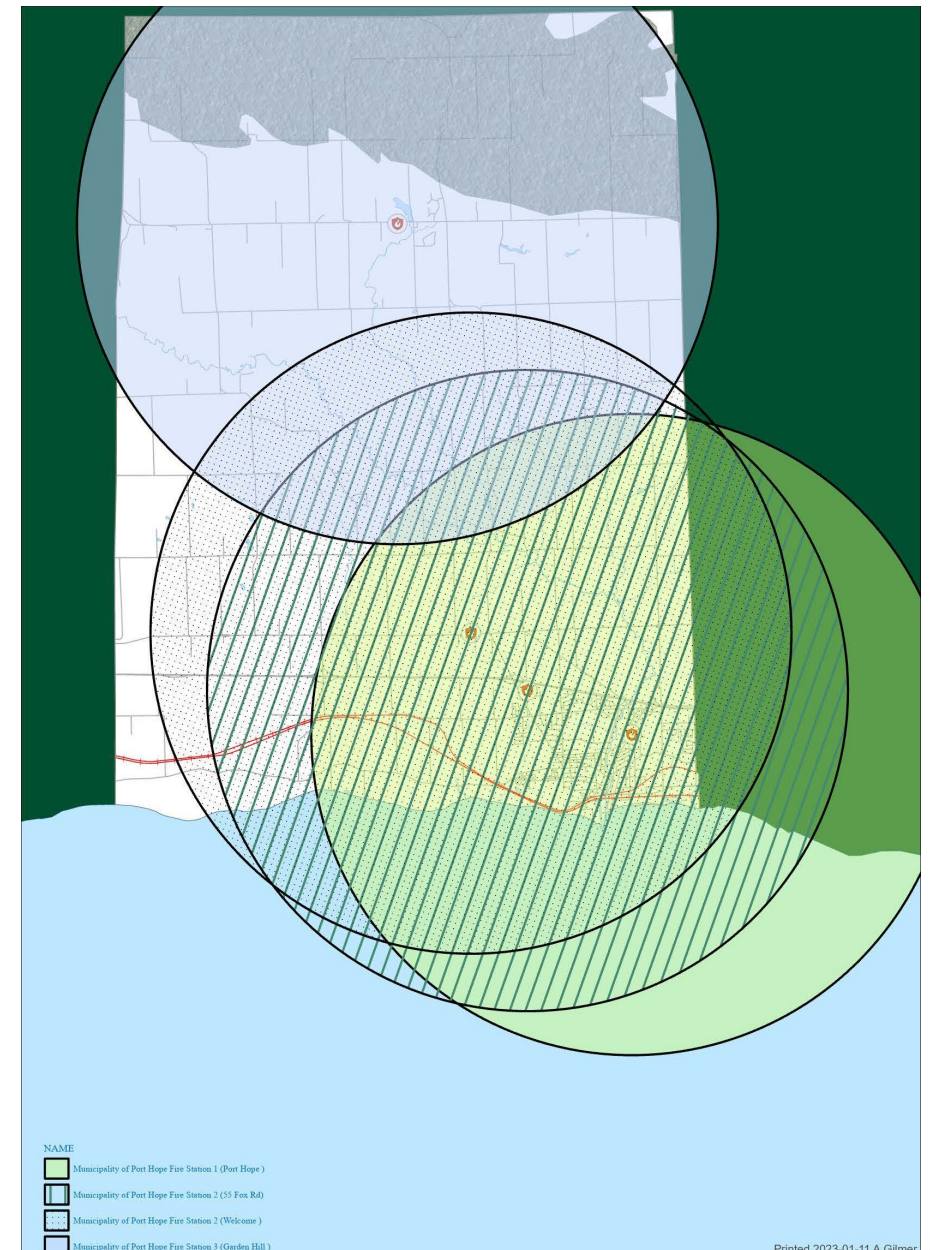
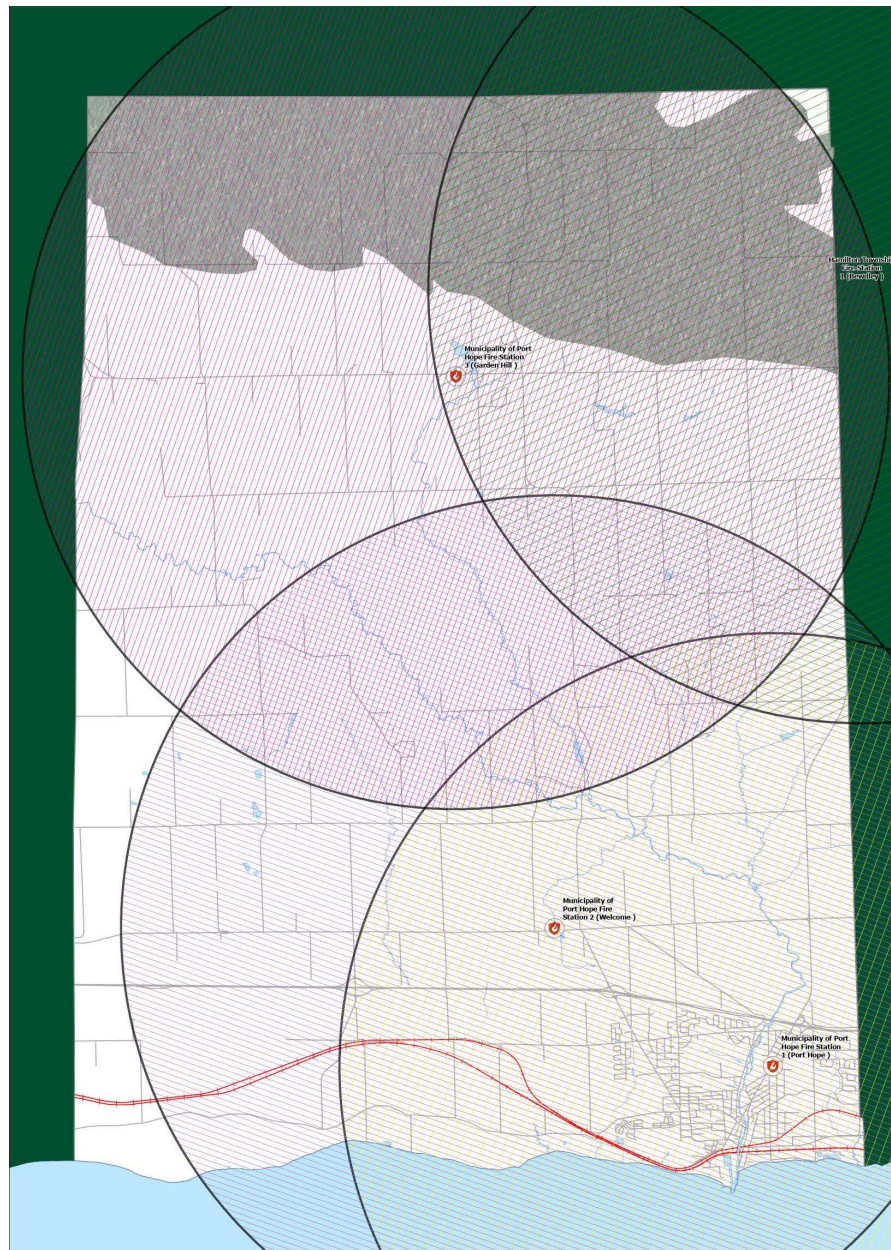
Station 3 to Canton = 9.2 km

Canton to Welcome = 4 km

Welcome to 55 Fox Road = 2.3 km

Welcome to Station 3 = 12 km

8 km Response Zone



Community Engagement

2022

February 18: Survey conducted for community consultation as part of the Fire Master Plan process

2023

January 6: Details of the community open house shared on the Mayor's Corner

January 12: Port Hope website updated with community feedback page and project information. This will be updated throughout the course of the project

Newspaper advertisement regarding the Open House and Public Information session circulated

January 13: Community engagement and open house information shared on Port Hope's social media pages, community engagement news page and the Mayor's Corner

January 16: Radio advertisement regarding the Open House and Public Information session

January 18: Open House and Public Information session to be held in Canton

February: Report to Council

Conclusion

- The current Fire Station 2 is required to be replaced
- The data collection and analysis supports the location of the proposed replacement project as 55 Fox Road, Port Hope
- The proposed site provides all of the required elements needed by a contemporary fire station
- Due to historical work completed at site there will be a time and cost saving with construction
- Benefits of decreased response time, more effective/efficient emergency services to Rural Area / Amend response areas to assist Station 1
- Supported by PHFES, Port Hope Police Service and Municipal Staff Members

Thank You

Questions?

Jason Williams

Director, Protective Services and Emergency Management

Municipality of Port Hope

jwilliams@porthope.ca

905-885-6104

