

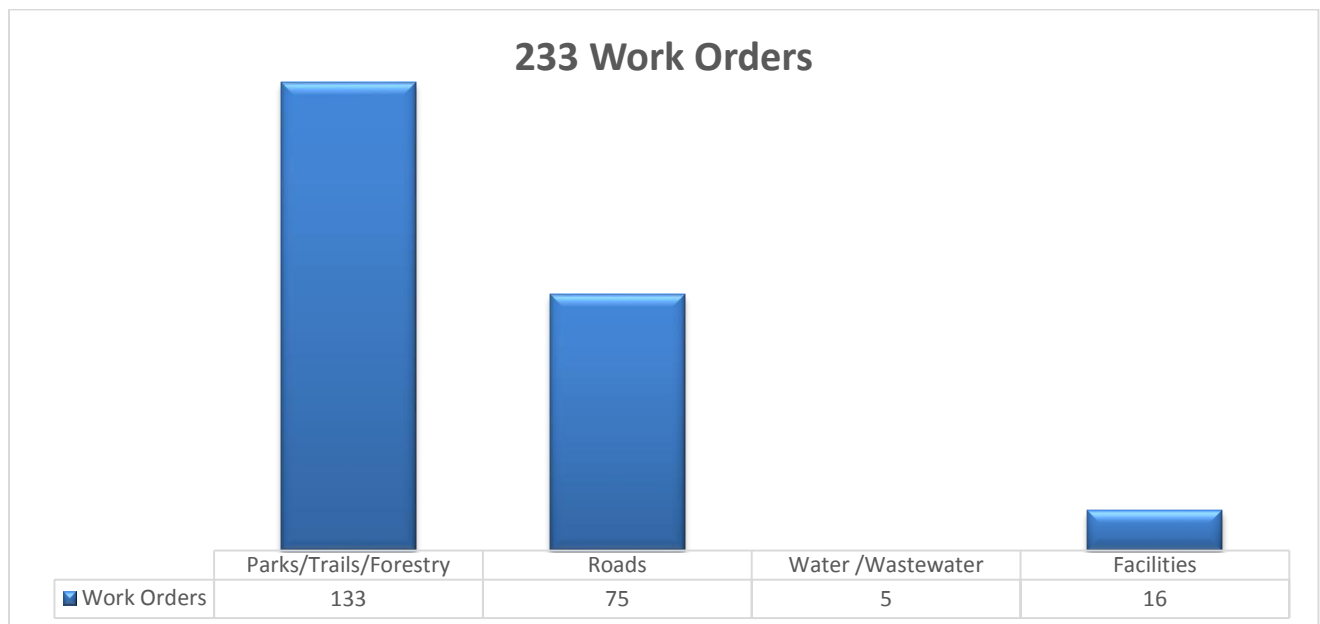
**Public Works Department Quarterly Report**

Wednesday, July 26, 2023

**Reporting Period:** Q2 Public Works Department Quarterly Report for the period: April 2023 – June 2023

**Recommendation:**

**BE IT RESOLVED THAT the Q2/2023 Public Works Department Report be received for information.**

**Department Overview and Statistics:**

The Town's new Public Service Request known as MuniPasS went live on Monday, April 17, 2023. The Town has been using the "Spot it? Share it!" logo to support the rollout.



## **Operations**

### **Roads**

The primary function of the Roads Staff is to perform maintenance activities identified during routine road patrols as per the Ontario Regulation 239/02; Minimum Maintenance Standards (MMS) for Municipal Highways, passed pursuant to the *Municipal Act, 2001*.

April 1, 2023, marks the end of the 2022-2023 Winter Season. At the end of each winter season the Town of Pelham is required to report the quantity of de-icer used to perform winter maintenance to Environment Canada. The Town of Pelham uses two types of de-icers during winter operations: Salt (Sodium Chloride or NaCl) and treated abrasive (5:1 Sand/Salt mix). During the 2022-2023 winter season the Town of Pelham utilized 217 tonnes of salt, and 3005 tonnes of treated abrasive. The quantity of salt used was below the average of 292 tonnes, while the quantity of treated abrasive used was slightly higher than the average of 2680 tonnes. There are a great number of factors that contribute to the quantity of material used during any given season including: air and road surface temperature, accumulation of snow or ice, road condition, flash freeze events, and the individual plow operator.

The vast majority of the time spent by Roads staff in this quarter was patching potholes. With very few exceptions, a minimum of 2 of the 5 total roads staff were engaged in patching potholes throughout the Town's transportation system everyday during this period. Staff have hand placed, 125 Tonnes of QPR cold patch, and 85 Tonnes of hot mix asphalt between April and June.

### **Beautification**

Throughout the second quarter staff continue to respond to tree pruning, inspection, and removal requests. Staff are placing all Oak tree pruning requests on hold until November as a result of Oak wilt being detected in the Niagara Region.

On July 1<sup>st</sup>, a high wind event occurred in Fenwick, during the Canada Day parade. The storm caused damage to a number of large trees in the area of downtown Fenwick. The contracted tree service provider responded to assist municipal staff in the cleanup. It is estimated that the costs related to this storm will be \$30,000.

All of the annual beds and 55 hanging baskets have been planted and installed. Staff continues to weed, maintain, and water the beds and baskets. After a busy spring mowing season, the relatively dry and warm start to summer has

caused the turf to go dormant allowing staff to catch up on cutting and focus on trail maintenance.

Beautification Staff have increased the servicing of municipal garbage cans in parks and along trails in response to higher frequency of use. Municipal cans in parks are being serviced 3 times a week which includes a shift dedicated to the emptying garbage cans on the weekends where usage is the highest.

## **Water/Wastewater**

Water/wastewater maintenance activities continue throughout the year. Operators perform system pressure monitoring, flush water mains to ensure adequate chlorine residual, and respond to customer complaints or concerns.

Staff completed the spring watermain flushing program and have begun the 2023 fire hydrant maintenance program according to the Drinking Water Quality Management System.

Staff responded to one watermain break, resulting from damaged caused by a contractor working in the area of Stella Street and Merritt Road. Costs related to the repair will be recovered from the contractor.

## **Engineering**

The following is a summary of the activities that have occurred in the Engineering Department between April 2023 and June 2023:

### **Pelham Street South (Phase 3)**

Aside from the installation of the pedestrian crossing, this project has been completed and is now in the one-year warranty phase. The asphalt and line painting were finished in May, with sodding and landscaping works being completed in June.



*Pelham Street Phase 3 – John Street to South Entrance of Spruceside Crescent*

### **Pelham Street South (Phase 4)**

After it was discovered that the Town's portion of the Quaker Road project would not be undertaken in 2023, Council approved the commencement of Pelham Street South Phase 4 in 2023. The project was awarded to Rankin Construction Inc. in May and will start in July 2023. The project includes new watermain, storm infrastructure, bicycle lanes, sidewalks, streetlights, and resurfacing of the roadway. The project will be substantially complete in December 2023.

### **Pelham Town Hall Municipal Building Addition**

The addition was substantially completed in March of 2023. Along with the opening for the Pelham Bandshell Series, the Pelham Town Hall Municipal Building Addition officially opened for the public on June 22, 2023.



*Pelham Town Hall Municipal Building Addition is currently in maintenance period as of May 2023.*

### **Road Base and Patching Repair Program (2023)**

The Road Base and Patching Repair Program is currently out for tender and is anticipated to close on July 18, 2023. This program focuses on rural roads with emphasis placed on road segments with low PCI ratings. The project is anticipated to start beginning of August and be substantially completed at the end of October 2023.

### **Road Rehabilitation and Resurfacing Program (2023)**

The Road Rehabilitation Program is currently out for Tender and anticipated to close July 18, 2023. This program will focus on rural roads with emphasis placed on road segments with low PCI Rating. It is anticipated to start in August and be completed last week of September/October 2023.

On July 11<sup>th</sup> staff closed the request for tender (RFT). The Town received two (2) bid submissions from Walker Construction and Circle P Paving Ltd. The unofficial tender results are as follows:

- 1) Walker Construction: \$1,284,132.00 (plus applicable taxes, including provisionals)  
No Provisionals: \$1,099,319.25 (plus applicable taxes)
- 2) Circle P Paving Ltd.: \$1,301,979.75 (plus applicable taxes including provisionals)  
No Provisionals: \$1,124,755.00 (plus applicable taxes)

Staff are bringing in a report to Council on August 26, 2023, for the exceedance and the approval of the additional funding for the project.

### **Concrete Repair and Replacement Program (2023)**

This program focuses on the repair and replacement of damaged or failed sidewalk panels and curbs within the Town right-of-way. It also encompasses facilities' concrete repair and replacement needs. The majority of the work completed as part of this annual project is predominantly concrete sidewalk repairs to ensure the Town is in compliance with the Minimum Maintenance Standards (MMS). The tender for this program closed on July 11<sup>th</sup> and was awarded to Sacco Construction, the work is anticipated to begin later in July.

### **Roadside Ditching Program (2023)**

It is anticipated that the contract will be tendered in the summer of 2023 and be completed in the Fall of 2023.

### **2023 Pavement Condition Index Study**

An RFP was put out for the services of an engineering consultant to provide a townwide Pavement Condition Index Study for all municipal roads within Pelham. This information may be utilized in the Town's asset management software and in prioritizing capital projects. RFP was tendered on February 14, 2023, and was awarded to Applied Research Associates Inc on March 13, 2023.

The study has been completed on May 31<sup>st</sup> and presented to Council on June 21 by ARA. Staff are currently using the data that was gathered to pinpoint locations for the 2023 Road Rehabilitation Program and 2023 Road Base and Surface Repairs.

### **Foss Road Sanitary Sewer Design Upgrades**

Town Staff recently received a 90 % design package for the sanitary replacement project. The cost to complete the design to 100% including the application and procurement of permits was included in the 2023 capital Budget request and approved by Council.

Staff will be re-issuing an RFP to complete the design, obtain the necessary approvals and permits and prepare tender documents. It is anticipated that this project will be issued in the summer of 2023 with completion of the design, this will allow the project to be tendered in 2024, pending Council's approval of the 2024 Capital Budget.

### **Church Street Sanitary Sewer Design Upgrades**

The detailed engineering design was completed by Associated Engineering early in 2022. Permits, comments, and approvals have been obtained by CP Rail and the NPCA.

This project tender closed on July 4<sup>th</sup>, 2022, however, due to tender prices substantially exceeding the budget for this project, Staff decided to postpone this project and retender in 2023. The additional capital funding required to complete the project was included in the 2023 Capital Budget request.



*Excavation works (Left) and CP Railway Flaggers (Right)*



The project was re-tendered on March 9, 2023, and closed on April 4, 2023. Staff awarded the project to Trenchline and Roads. Associated Engineering will perform CA and Admin for the Town. The construction started on July 4, 2023, and it is anticipated to be completed in the fall of 2023.

### **Quaker Road Reconstruction Detailed Design**

The Quaker Road Reconstruction project is a cost-sharing project with the Niagara Region, City of Welland, and the Town of Pelham. The main purpose of the project is for the Region to install a new sanitary trunk sewer on Quaker Road from Pelham Street to Rice Road to divert flows from the Pelham Street sanitary sewer and alleviate existing capacity issues. The Town has opted to urbanize Quaker Road from Pelham Street to Line Avenue and replace the existing infrastructure as part of this project. A new watermain, sanitary sewer, storm sewer, bicycle lanes, and sidewalks will be constructed.

The tender for this project is set to close in August 2023, with construction starting at the Rice Road portion of the project in September – October 2023. The project will likely reach Pelham in 2024.

### **Bridge Design for Cream Street (Structure No. 12) and Roland Road (Structure No. 13)**

The Cream Street and Roland Road bridges were identified in the 2020 Biannual Bridge and Culvert inspections as structures that require rehabilitation and or replacement. The Bridge Condition Index (BCI) for Cream Street (Structure No. 12) is 48 with an overall condition of "poor". The BCI for Roland Road Bridge (Structure No. 13) is 60 with an overall condition rating of "fair". The detailed design assignment for the Cream Street bridge is complete and the construction project has been awarded to CRL Campbell who begin construction in late August 2023. The Roland Road bridge design is ongoing, and the replacement is anticipated to be tendered and constructed in 2024 pending budget approval.

### **Station Street Storm Pond Rehabilitation**

This project has been awarded to Duffin Contracting Inc. The commencement of the project has been delayed. This is mainly due to permitting restrictions from the NPCA and permission to enter and gain access over a hydro easement that runs between Station Street and Cataract Road directly adjacent to the stormwater pond outlet. The contractor is continuing to work with the design consultant, Town Staff, and NPCA to get the approvals necessary to gain access to the site and complete the work. Based on failed attempts to gain access to

the site via the Hydro One corridor the Town has now directed the contractor to gain access to the site through the existing storm sewer easement and stormwater management facility. As a result, there will need to be limited tree removal and restoration work on the existing pond. All of this work for the access will be completed on Town property. A portion of the property is on NPCA-regulated lands so permits and approvals through the Conservation Authority will be required. It is anticipated that the construction will commence once permits are received.

The Town will be arranging a pre-construction meeting with Associated Engineering and Duffin Contracting Inc to discuss the project and the possibility of completing the project in 2023.

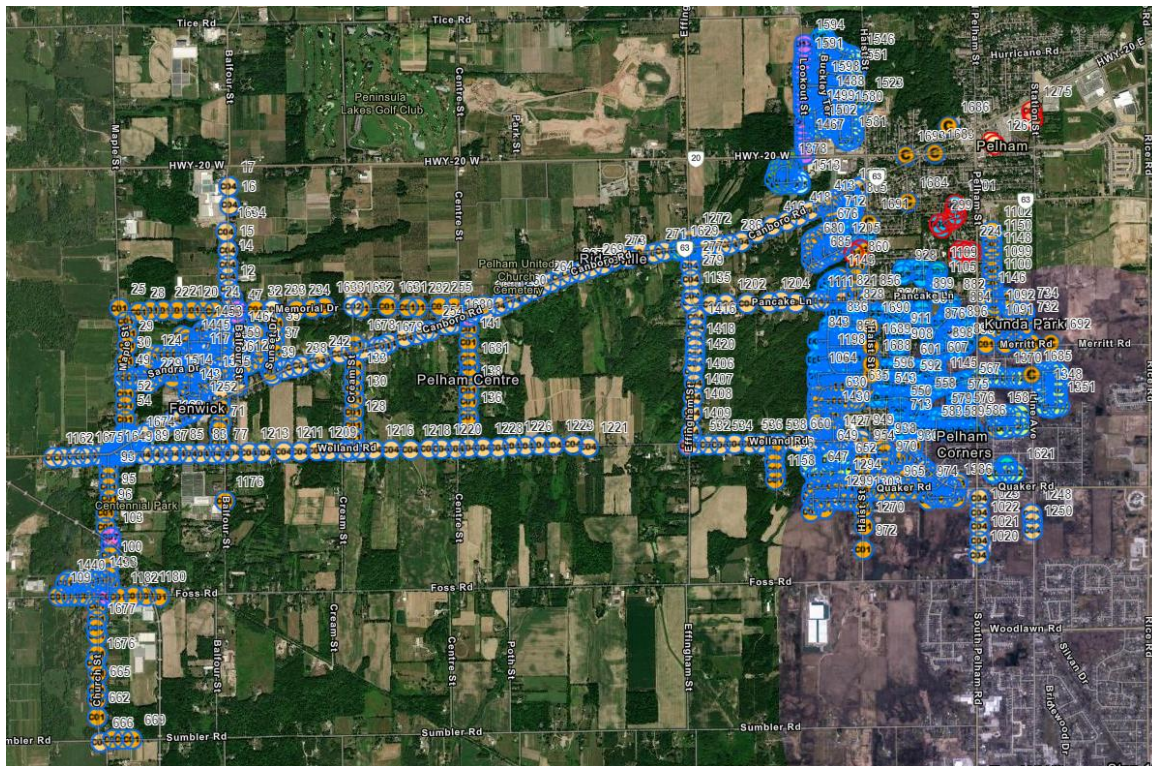
### **Northwest Fonthill Watermain Replacement Project**

A Request for Proposal for the design of the Northwest Fonthill Watermain Replacement Project was awarded to Kerry T Howe Engineering Ltd. in September 2022. The purpose of the project is to replace non-PVC watermains and water services not meeting Town standards in Northwest Fonthill. Streets included as part of this project includes Strathcona Drive, Moote Lane, Daleview Crescent, Daleview Drive, Pinecrest Court, and Spencer Lane. The design for this project is anticipated to be finalized in the summer of 2023, with construction being phased over the next few years. The Town has received grant funding for this project. The Town has received a grant in the amount of \$2,958,911 from the Investing in Canada Infrastructure Program (ICIP) for this project.

### **LED Streetlight Conversion Project**

After the successful installation of Phase 1 LED Replacement Project, Town has retained RealTerm Energy to complete the Phase 2. Staff along with RealTerm Energy had a Kick-Off meeting on May 22, 2023, to discuss the project. There will be a total of 1000 fixtures that will be replaced with the anticipated 20-year net project savings of \$3.1M in 4.7 years. Staff along with the consultant are also looking at ways to incorporate smart technologies systems on the light fixtures.





*Phase 2 LED Streetlight Replacement Map*

The project will commence in August 2023 and is anticipated to be completed by the end of the calendar year.

### **EV Charging Stations at the MCC and Town Hall**

The Town applied for grant funding from the Provincial Government to install electric vehicle charging stations at the MCC and Town Hall. It is one of the best ways that the Town can support our community to reduce greenhouse gas emissions. The design and installation of 6 new level 2 chargers at Pelham Municipal Building and 2 new level 3 chargers at the Meridian Community Centre went out on an RFP process to seek qualified bidders on June 1 and closed on June 22<sup>nd</sup>.

Staff are currently reviewing the bids to determine the successful proponent.

It is anticipated that the project will start in August 2023 and be completed by September 30, 2023.

### **Bell Canada – Fibre Optic Internet Expansion**

In early January of 2023, Bell Canada applied for a Municipal Consent Permit from the Town for the purpose of working in the Town's right of way.

As part of Bell Canada's goal to bring faster and better connectivity to the residents of Pelham, Bell entered an agreement with Ledcor (contractor) to perform the upgrading of its underground fiber optic infrastructure.

It is anticipated that the project will provide fast internet to 4500+ homes in Pelham this year. The areas of concentration are along the Canboro Road corridor and the urban areas of Fonthill and Fenwick.

Work began in June 2023 and should be completed next year.

This project is not a Town of Pelham project, however engineering staff are conducting periodic inspections and following the progress of the work.

### **Canboro Road Reconstruction Detailed Design**

A Request for Proposal for the design of the Canboro Road Reconstruction Project was awarded to Kerry T Howe Engineering Ltd. in August 2022. The purpose of the project is to replace the existing watermain as it has reached the end of its service life, as well as urbanize the roadway to include storm sewers, curb and gutter, and improved sidewalks. CCTV footage of the sanitary sewer on Canboro Road has been reviewed and alternatives for rehabilitation or replacement of the sewer are being evaluated. The design for this project is anticipated to be finalized in the summer of 2023, with construction anticipated to take place in 2025.

### **Stormwater Management Facilities Review Project**

A Request for Proposal to undertake a review of the Town's stormwater management facilities closed in December 2022. This project has been awarded to Matrix Solutions Inc. The purpose of the project is to assess the condition and performance of all Town-owned stormwater management facilities, as well as identify the capital, operations, maintenance, and compliance needs for the facilities. These stormwater management facilities include Town infrastructure such as wet and dry stormwater management ponds, in-line storage facilities, and oil-grit separators.

The consultant is in the process of undertaking surveys and inspection of all the Town's storm ponds which will help in creating a capital plan for the dredging and rehabilitation of the ponds. It is anticipated that this assignment will be completed in the fall of 2023.



## **Rogers – Fibre Optic Internet Expansion**

In January 2023, Rogers applied for a Municipal Consent Permit from the Town for the purpose of working in the Town's right of way. As a part of a government-funded expansion project, Rogers entered into an agreement with Avertex (contractor) to perform the installation of underground fiber optic infrastructure across the town.

Work began in May 2023 and is anticipated to be completed by the end of the year. The focus of this project is in the rural areas of Pelham.

## **River Road Culvert Replacement**

The tender for this project was posted on May 12<sup>th</sup>, 2023, and was awarded to Alfred Beam Excavating Limited on May 22<sup>nd</sup>, 2023. The project consists of the replacement of a 1.8m diameter CSP culvert that is approximately 18m long, a new armour stone wall, rip rap, and reinstatements. The project commenced on July 4<sup>th</sup> and nearing completion with only asphalt left to be completed. It is anticipated that the road will be re-opened on July 17<sup>th</sup> by the end of the day following paving.



## **Effingham Street Reconstruction Detailed Design**

Two sections of Effingham Street were identified as needing improvements to the road and drainage, this includes from Highway 20 south to Canboro Road and from Tice Road to approximately 400m south of Metler Road. The main purpose of the project is to solve drainage issues that are causing the road's condition to deteriorate.

The south section of Effingham Street from Highway 20 to Canboro is planned to be reconstructed including the addition of a storm sewer, curb, and gutter. This sewer will collect the water that is currently being discharged onto the road from Highway 20 and prevent any future damage due to excessive water.

The north section from Tice Road to 400m south of Metler Road will remain a rural cross section but staff are looking at erosion mitigation techniques to help slow down water and protect the ditch on Sailor's hill.

The tender for this design assignment closed in May 2023 and was awarded to Upper Canada Consultants. The design is in progress and a cost estimate will be provided prior to budgeting for 2024. Construction is anticipated in 2024-2025 pending budget approval.

### **Constituent Concerns and Issues Arising**

None

### **Employee Updates**

None

### **Grants, Concerns, RFPs, Agreements**

None

### **Meetings**

Public Works Officials Meetings

Niagara Peninsula Contract Document Specification Meetings

South Niagara Public Utilities Coordinating Committee

Municipal Energy Symposium – Association of Municipalities of Ontario

Oak Wilt Expert Panel Q&A – Invasive Species Centre of Ontario

Consolidated Linear Infrastructure Environmental Compliance Approval

Niagara Working Group