

## Public Works Department Quarterly Report

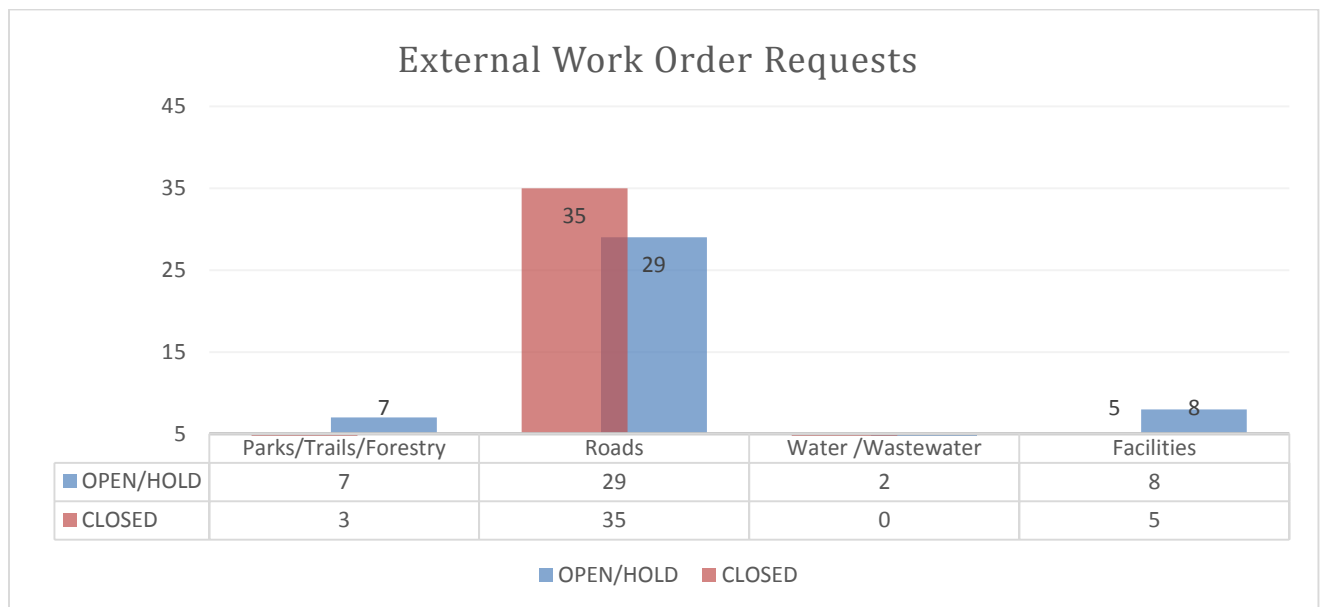
Wednesday, April 19, 2023

**Reporting Period:** Q1 Public Works Department Quarterly Report for the period: January 2023 – March 2023

### Recommendation:

**BE IT RESOLVED THAT the Q1/2023 Public Works Department Report be received for information.**

### Department Overview and Statistics:



The above overview only covers work orders through the current PSR system. The above statistics do not cover work order requests generated through email or phone correspondence. The Town's new Public Service Request known as MuniPasS will go live on Monday, April 17, 2023. The Town will be using the "Spot it? Share it!" logo to support the rollout. Data will be available using the new reporting system once the conversion with the existing system is complete.



## **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. Roads staff have begun decommissioning the winter fleet to transition into spring operations. Although staff has not received the contracted services invoices for March, the Winter Operations budget is believed to be healthy. Staff will report on 2023 winter operations once all invoicing has been received and operations data can be compiled.

Through the end of February and March, road staff has concentrated their efforts on patching potholes on municipal roads. During this period 95 tonnes of QPR cold patch has been utilized to patch potholes throughout the Town's transportation system. A further 20 tonnes of cold patch was used during a concentrated effort to patch potholes involving Roads, Beautification, and Water/Wastewater staff the week of April 3<sup>rd</sup>, 2023.

### **Beautification**

Throughout the first quarter, both staff and the tree contractor began working on completing tree maintenance identified in the 2022 tree inspections. As per Schedule A of the Tree Maintenance Policy S802-01, staff has begun tree limb pruning and tree inspections in Section 7 which includes the North/East corner of Fonthill. Policy S802-01 prescribes a 7-year pruning cycle for municipal boulevard trees. Through the tree inventorying exercise, Section 7 was noted as an area requiring prioritization.

During the winter season, when not assisting in winter operations, staff perform equipment maintenance such as painting trailers and small engine servicing. Staff repair picnic tables and repaint garbage receptacles and the design of planting beds and ordering of planting material also occurs in this quarter in preparation for spring.

Corporate Services are working on a cemetery GIS mapping system and Public Works is working on a pilot project to digitize the Town's historic cemetery records.

## **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 responded to one water quality concern in this quarter related to rusty water. The home is supplied by a cast iron watermain which can be the cause of coloured water from the tap. Staff did not find rusty water at either the home or while flushing watermain in the vicinity.

The Drinking Water Quality Management System received a surveillance audit by NSF International Strategic Registrations in March. The system received one Opportunity for Improvement (OFI) regarding the listing of standards required for essential supplies and services related to watermain pipe and fittings. This OFI was promptly addressed.

## **Engineering**

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

### **Pelham Street South (Phase 2)**

This phase of the project was completed in April of 2022 and is now on maintenance until April 30, 2023.



*Pelham Street Phase 2 – Port Robinson to John Street*

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

This project was awarded to Rankin Construction Inc. on July 26, 2022. The project has recently restarted after the winter shutdown. Final surface works

such as top asphalt, sidewalks, and landscape restoration are estimated to be complete by the end of May 2023.

Town Staff, the consulting engineer, and the contractor have been working together to come up with cost-saving measures for the project. Various opportunities for cost savings have been identified and implemented thus far, which will aid in ensuring the project remains within budget.



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

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

In the months of February and March, work on the building addition has progressed steadily. It was anticipated that the project will be completed on March 31, 2023. However, supply chain issues and weather have affected the work scheduling for the building addition. To date, the contractor has completed roof assembly, exterior and interior masonry, painting, plumbing, duct work and electrical fixtures, exterior cladding, and flooring. It is scheduled that the ERV is to be delivered last week of April. The contractor is waiting for good weather to pour the concrete walkway.

The Town has received a revised schedule for the project to be completed by the end of April 2023, except for landscaping which will happen in the spring.



*Pelham Town Hall Municipal Building Addition – March 2023*

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

Staff is currently in the process of determining the locations for the asphalt base repairs and patching program for 2023. It is anticipated that this contract will be tendered in the spring of 2023.

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

Engineering Staff are currently working with Public Works Operations Staff to develop a list of candidates for the 2023 Road Rehabilitation and Resurfacing program. The candidates being selected will be based on the information contained in the 2023 Pavement Condition Study and based on the road patrols completed by Operations Staff. The program will most likely focus on municipal roads with a low Pavement Condition Index. It is anticipated that this contract will be tendered in late spring of 2023.

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

Staff is currently in the process of determining the locations for the concrete repair and replacement program. 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). It is anticipated that this contract will be tendered in the spring of 2023.

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

Staff are currently reviewing locations for the 2023 Roadside Ditching Program. It is anticipated that the contract will be tendered in the summer of 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 each 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 is anticipated to be completed by May 31<sup>st</sup>, 2023.

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

Town Staff recently released GHD from the design portion of the project as the design for the sanitary replacement is at 90% complete. The cost to complete

the design to 100% including the application and procurement of permits is included in the 2024 capital Budget for Council's consideration.

Staff is reviewing options to move forward with the project.

### **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 has been included in the 2023 Capital Budget request.

The project was tendered on March 9, 2023 and closed on April 4, 2023. Staff and the consultant are currently reviewing the bids from the contractors. It is anticipated that this contract will be awarded in the next few weeks. Construction is anticipated to begin in July 2023.

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

Engineering staff are working closely with representatives from the Region and the design consultant (MTE) to finalize the design of Quaker Road from Pelham Street to Line Ave. The project will include the full urbanization of the roadway with concrete sidewalks on both sides of the street, on-road cycling facilities, new watermain and services, new storm sewer, and new sanitary sewer. The design is currently in the 90% stage and will be completed in April 2023. Town staff have been working with the City of Welland and Niagara Region staff to create temporary access off Line Avenue in Pelham to Summerlea Avenue in Welland. Temporary access is required for residents and emergency vehicles to enter and exit the subdivision without restriction during construction.

The City of Welland and Niagara Region will be financially responsible for both installing and removing the temporary access once construction has been completed. The project will be tendered and administered through Niagara Region. The project is to be tendered in spring 2023 by the Niagara Region and due to the complexity of the sanitary trunk main construction, the proposed works on Quaker Road in Pelham have been deferred to 2024/2025. Therefore, it is intended to switch focus and continue with Pelham Street Phase 4 and complete the construction works to the Welland Boundary.

## **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 town staff is reviewing the final drawings and cost estimate. This project is planned to be tendered in April 2023 with construction anticipated to begin in July 2023. The Roland Road bridge design will commence with the completion of the Cream Street design and the project 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.

## **Northwest Fonthill Watermain Replacement Project**

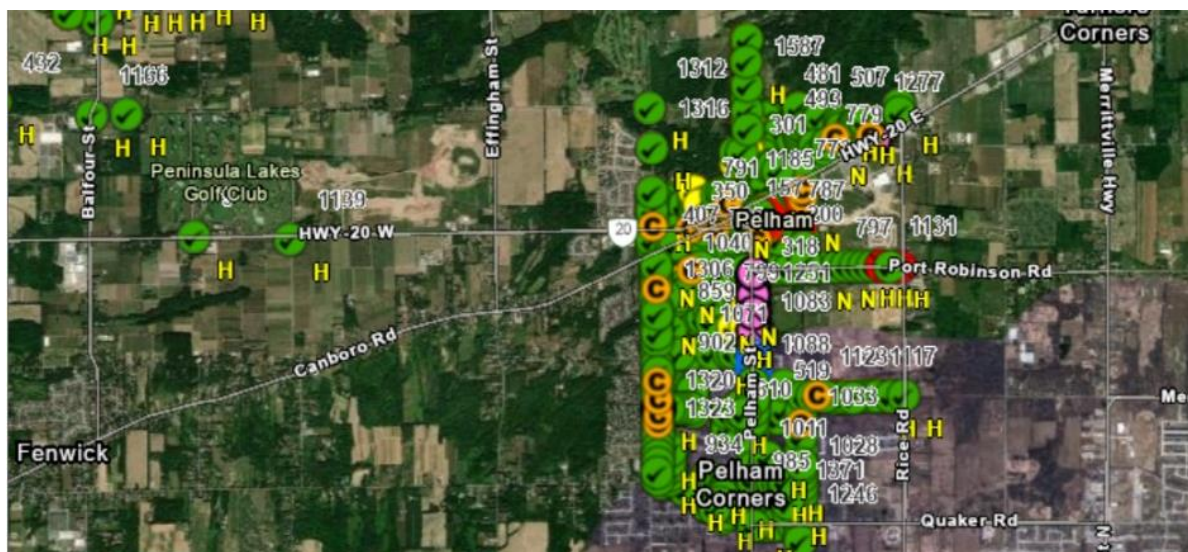
A Request for Proposal for the design of the Northwest Fonthill Watermain Replacement Project was awarded to Kerry T Howe Engineering Ltd. in September 2022. The purpose of the project is to replace non-PVC watermains and water services not meeting Town standards in Northwest Fonthill. Streets included 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.

## LED Streetlight Conversion Project

Town staff have reviewed the Investment Grade Audit (IGA) and the first phase of the project, capped at an upset limit of \$250,000 based on Council's directive, has been completed. Based on the information received from the IGA and based on the current market price index the estimated cost for the project is now \$950,000. The primary reason for the cost increase is a direct result of approximately 320 additional fixtures being identified through the IGA (most of them being decorative style fixtures), and to account for increases in inflation and labour and material costs for 2023. The initial proposal by RealTerm Energy estimated that the savings in annual operating and maintenance costs would be approximately 74%. However, based on the Phase 1 IGA it is estimated that the utility cost to operate the streetlights will see a reduction of approximately 72% and the estimated maintenance costs will realize approximately 80% in savings. Overall, it is estimated that the total savings for the Phase 1 conversion will be approximately 74% representing a capital project cost payback of approximately 3.8 years. Originally, the contractor was to have Phase 1 completed by December 31<sup>st</sup>, 2022. Due to unforeseen weather delays, Phase 1 was substantially completed by the first week of February 2023. The LED Streetlight Replacement Project Phase 1 has officially transitioned from installation to reconciliation.

This means the installation has been successfully completed and moved to the maintenance period of the contract. Phase 2 of the project will commence in the spring of 2023 and will be completed by the end of the calendar year.



*Phase 1 LED Streetlight Replacement Map*

## **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 summer 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 onsite works are due to commence in the Spring of 2023

## **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