

Public Works Department Quarterly Report

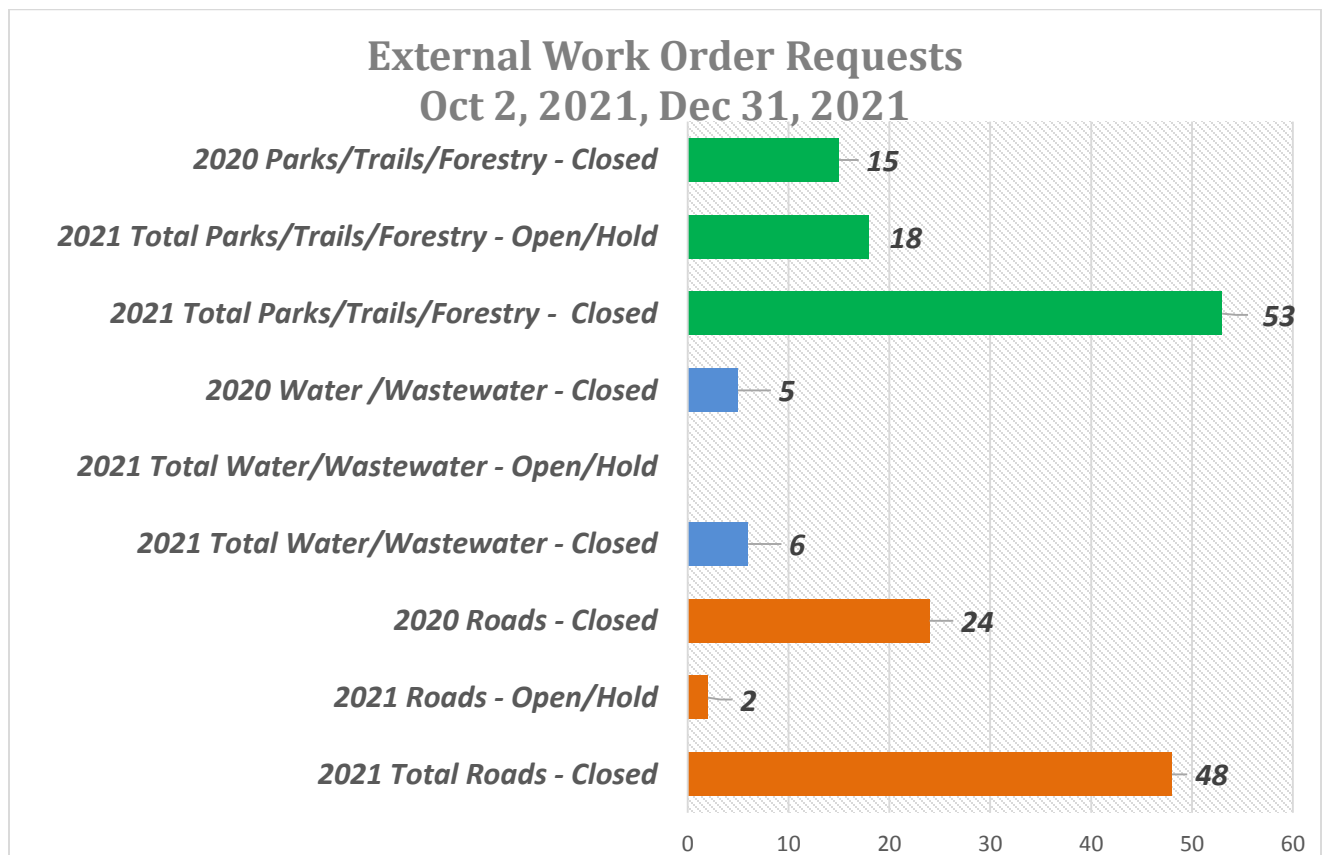
Monday, January 24, 2022

Reporting Period: Public Works Department Quarterly Report
for the period: November 2021 – January 2022

Recommendation:

**BE IT RESOLVED THAT the Q4/2021 Public Works Department Report
be received for information.**

Department Overview and Statistics:



Operations Projects:

ROADS

Roads Staff continue 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*.

Roads staff have concentrated their efforts on patching roads, completing signage improvements, and general road maintenance activities. During this period, 25 tonnes of QPR cold patch has been utilized to patch potholes throughout the Town's transportation system. Warning signage improvements and repairs are continuing. Due to warmer weather experienced in December, staff have replaced or installed a number of driveway culverts for new entrances.

Between November 1st, 2021, and January 12th, 2022, the Town received a total snow accumulation of approximately 30 cm. In response to winter weather Town staff have completed 9 winter maintenance operations including 7 treatments (sand/salting) programs and 2 combinations, plowing & treatment programs. Staff have utilized 700 tonnes of sand/salt and 60 tonnes of salt to maintain roads in accordance to the Winter Maintenance Policy S802-04. The new International plow truck received in July of 2021, is being utilized in the residential urban areas for which it was specified and is operating effectively as designed.

BEAUTIFICATION

The Town of Pelham experienced a number of severe wind events, most notably the evening of December 11, 2021. Staff are continuing to clean up debris from this event along rural roads. This wind event caused damage to a number of large trees and limbs and overwhelmed municipal staff and equipment resources which resulted in the need to utilize the contracted tree service provider. The contracted service cost for this event totalled \$27,000. In January, both staff and the tree contractor began work completing tree maintenance identified in the 2021 tree inspections. The majority of this work will take place on Maple Street, College Street and Emmett Street.

The LDD moth egg mass surveys and 2022 defoliation forecast have been completed, and the forestry consultant is currently finalizing the report. Once it is received staff will bring an information report Council in early February as per Policy S802-03. Once the survey data is reviewed the spray plots will be developed and communicated through social media and the Town's website.

Beautification staff are responsible for the set-up and removal of Christmas lights in parks and assist in the installation of decorations on hydro poles. Staff decorate downtown Fenwick, North Pelham, Hwy 20, downtown Fonthill, Peace Park and have recently added streets in the area of the MCC. The Christmas lights are scheduled for removal during the week of January 17th, 2022. Staff have installed a dedication bench on the Gerry Berkhout trail.

Throughout the winter season staff perform equipment maintenance such as painting trailers and small engine servicing. Staff continue work on collecting the tree inventory, and have started using the GIS based tools and applications to map other Parks assets such as benches, playground equipment, garbage cans and gate way signage.



Pictures of damage from the December 11th wind storm

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 3 pressure, and taste and odour complaints and 1 sanitary sewer lateral blockage during this period. All instances have been attributed to private plumbing issues.

Water operators worked with contractors to commission the new watermain in the Phase 2 of Lavender Fields development as well as Phase 3 of Saffron Meadows. Water/Wastewater staff also inspected new water and sanitary lines for new builds in and around Pelham.

As per the Town's Drinking Water Quality Management System staff completed the annual watermain valve exercise program which involves turning 126 watermain isolation valves. Staff also repaired 2 watermain breaks and replaced 2 leaking services. Staff have also started using the GIS based tools and applications to map other water/wastewater assets such as watermain valves, and water service shutoff valves.

ENGINEERING

The following is a summary of the activities that have occurred in the Engineering Department between October 2021 and December 2021:

Sulphur Springs Rehabilitation – The Sulphur Springs Road Reconstruction project was awarded to Duffin Contracting under a design/build contract. To date the contractor has completed Site 1 (with the exception of asphalt and the landscaping to be completed in the spring) and re-opening the roadway. Site 2 will commence in July of 2022 once the contractor is permitted to work within the watercourse.

Sulphur Springs Road Rehabilitation



Before

After



Restoration of Sulphur Springs Road at Site 1 (looking north)

Pelham Street North – Works for this project are now done with the completion of the surface course asphalt, final landscaping and pavement markings. A 3-way stop at the intersection of Pelham Street North and Hurricane Road was installed in accordance with Council's direction.

Pelham Street South – The Town has received Federal and Provincial funding towards completing a total reconstruction of Pelham Street to the Town Boundary south of Welland Road. The works include new storm sewers, updates to existing water mains, as well as new curb, asphalt, the construction of on-road bicycle lanes and new sidewalks. Design for this work was originally completed in 2013. Staff prepared an RFP for an engineering consultant to confirm the existing design and update it in accordance with current standards. Engineering works for this project were awarded to Associated Engineering, which completed design for Phase 1 of the project (College Street to Port Robinson and Pelham Street intersection) and Phase 2 (Port Robinson Road to John Street).

The design for Phase 1 was tendered in the fall of 2020 and was awarded to Rankin Construction Inc. Work for Phase 1 commenced November 2020, and is now complete. Phase 2 of the project was tendered and awarded to Rankin Construction, which commenced on-site works in June 2021. The works include complete urbanization of Pelham Street including new curb and gutter, new sidewalks, new storm sewers and new watermain. This section of road will also receive dedicated 1.5 m on-road bicycle lanes in both directions. In addition,

because the intersection at Port Robinson Road and Pelham Street experiences high traffic volumes and given the fact that it is within a school zone particular attention has been given to ensure it is designed with pedestrian safety in mind while accommodating all types of active transportation.

The project is substantially complete (including concrete curbs, sidewalks, and base course asphalt) with the landscaping, retaining walls and final asphalt being completed in the spring of 2022.

Road Base and Patching Repair Program – This program was tendered and awarded to Circle P Paving. Work for this program concluded on October 1st, 2021.

Road Rehabilitation and Resurfacing Program (2021) – This program was tendered and awarded to Walker Construction. The resurfacing portion of the project is complete and the landscape restoration will be completed in the spring of 2022.

Concrete Repair and Replacement Program – This program was tendered and awarded to Sacco Construction. The program is essentially complete with the exception of a few carryover locations to be completed in the spring of 2022.

Sixteen Road Bridge Replacement Program – This project was tendered and awarded to Rankin Construction. ELLIS Engineering, the design consultant, completed Contract Administration and inspection services throughout the course of construction. The project also came in approximately \$17,000.00 under budget thanks to the strong working relationship and communication between the Town, Rankin Construction, and ELLIS Engineering.

Roadside Ditching Program – This program has been awarded to CRL Campbell and includes ditching of approximately 14km of roadside ditches. CRL Campbell has completed a portion of the work in December of 2021. The balance of the program will be completed in the spring of 2022.

Station Street Storm Pond Rehabilitation – This project has been awarded to Duffin Contracting Inc. The commencement of the project has been delayed as a result of receiving permits 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 storm water pond outlet. The contractor is continuing to work with the design consultant, Town Staff and Hydro One to get the approvals necessary to gain access to the site and complete the work. It is anticipated that the construction will commence in the spring of 2022 and will be completed in the summer of 2022.

Foss Road Sanitary Sewer Design Upgrades – This project is currently at 90% design stage with GHD. However, there have been some challenges with regards to

the CPR crossing, which is delaying the finalization of design. Coordination with relevant agencies is being conducted in order to bring this project to completion and be construction ready. Staff are working diligently with the consultant to determine the most cost effective method of installing the sanitary sewer under the CPR right-of-way.

Church Street Sanitary Sewer Design Upgrades – This project is currently at 95% design with AE and is currently being updated with Public Works' review comments. Similar to the Foss Road project there will be challenges associated with crossing the CPR tracks. It is anticipated that the tendering phase of this project will be undertaken in February of 2022 with construction commencing in April/May.

Pelham Street Phase 3 – John Street to South Spruceside Intersection – This project is currently in the detailed design phase. The engineering assignment was tendered and awarded to Associated Engineering in the summer of 2021. Staff are working closely with the consultant to finalize the design and have the project tender ready for late spring of 2022.

Effingham Road Reconstruction – The detailed design engineering assignment was tendered and awarded to Kerry T. Howe Engineering in the fall of 2021. The consultant has recently completed the geotechnical investigation and has approximately 50% completion of the design. It is anticipated that this design work will be completed in the winter of 2022 and the project will be tendered in the spring of 2022. Tentatively construction will commence in late spring with completion of the project scheduled for mid July.

Park Lane Watermain Installation project – The Park Lane Watermain installation project is a project that involves the installation of a new 6 inch watermain from Hwy 20 to the bottom of Marlene Stewart Streit Park in order to service the new splash pad and the existing pool facility. The project was tendered and awarded to Catalina Excavating Inc. The project is scheduled to commence in mid January and be completed prior to the spring of 2022 in advance of the splash pad project.

In addition to the current capital projects, Engineering staff continue to thoroughly review all Planning and Committee of Adjustment applications. Reviews entail a site visit and detailed analysis of drawings and reports, to ensure Town standards are adhered to. For more complex applications, this process sometimes involves several re-submissions and repeated reviews by staff. Engineering staff also continue to manage requests for assumption of subdivisions, and for reduction of securities at various stages of the development process. In addition, Engineering Staff complete reviews on lot grading plans for building permits received through the Planning Department. Further, Engineering Staff continue to support the Pelham Active

Transportation Committee (PATC), generating reports for other departments to be sent back to the federal government, and coordinating with other Town departments for assistance. Engineering staff are also participating in the development of the Niagara Region Stormwater Management Guidelines. The Guidelines are at 70% Draft Stage and are currently being reviewed by other Departments at the Town.

Constituent Concerns and Issues Arising:

During COVID 19 protection measures and during the lockdown the public works staff are using social distancing strategies and physical separation to mitigate the interaction of employees at the public works yard and Town Hall offices. Public Works Staff continue to wear proper PPE when working in close proximity to other town employees, contractors, and suppliers.

In addition, work schedules for Public Works Engineering staff working out of Town Hall have been adjusted to allow staff to work from home if and when possible. This arrangement will remain in effect until at least January 26th or until such time that the Step 2 Lockdown measures are lifted. Town Hall staff remain available and committed to serving the Town of Pelham residents on an appointment only basis.

Employee Updates:

In December the Engineering Department received the resignation of one of the Engineering Technologists. As a result, the department is currently operating at a reduced capacity with one Technologist and one Engineering Manager. The Director and the Manager are currently reviewing applications with Human Resources to fill two (2) vacant Engineering Technologist positions. It is anticipated that interviews will commence the week of January 17th.

Grants, Agreements:

Quaker Road Reconstruction

Staff are currently working with the Niagara Region staff to develop a cost sharing agreement for the reconstruction of Quaker Road between Pelham Street and Line Avenue. Town Council have approved the proposal by the Region's design consultant (MTE) to undertake the design work on behalf of the Town. The Region will remain the project manager for this project.

LED Streetlight Conversion Project

Staff are currently working on an agreement with Realterm Energy Inc. for the LED Streetlight conversion program. Council approved a capital project in the amount

of \$250,000 to undertake the Investment Grade Audit (IGA) and complete Phase 1 of the streetlight conversions. It is anticipated that the IGA will take approximately two months to complete once the project is started. The IGA will provide a more detailed scope of work that is required to complete the LED streetlight conversion.

Meetings:

Public Works Officials Meetings (Virtual Attendance)