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**REPORT TITLE: Update on Watermain and Sanitary Sewer Upgrades in Downtown Brampton, City of Brampton, Wards 1, 3, 4 and 5**

**FROM: Andrew Farr, Interim Commissioner of Public Works**

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## **RECOMMENDATION**

**That the Region of Peel proceed with the construction of water and wastewater works and road improvements in the City of Brampton’s Downtown core;**

**And further, that staff be authorized to enter into a cost sharing agreement with the City of Brampton related to design and construction fees for the replacement of water, wastewater and road infrastructure in downtown Brampton;**

**And further, that the contract (Document 2012-571P) for Engineering Services for Watermain and Sanitary Sewer Construction and Streetscaping in Downtown Brampton, City of Brampton with CH2M Hill Canada Limited be extended in the estimated amount of \$1,470,000 for a revised total contract amount of \$6,699,807.80 (excluding applicable taxes), under Capital Projects 11-2380, 15-1303 and 18-1380, in accordance with Procurement By-law 30-2018, as amended;**

**And further, that authority be granted to the Director of Procurement, to approve further increases to the contract for additional engineering services that may be required to the limit of the approved capital budget, in order to achieve the completion of the project. And further, that a copy of the report of the Interim Commissioner of Public Works, titled “Update on Watermain and Sanitary Sewer Upgrades in Downtown Brampton, City of Brampton, Wards 1, 3, 4 and 5” be provided to the City of Brampton.**

## **REPORT HIGHLIGHTS**

- The Region of Peel identified the need to replace and upgrade water and wastewater infrastructure in the City of Brampton’s Downtown Core as part of the State of Good Repair Program in 2011.
- Region and City staff worked collaboratively to design and tender the Region’s water and wastewater upgrades in conjunction with the City’s proposed streetscaping in the Downtown Core in August 2018.
- Due to the tender results being over budget, and as part of the City’s work to reconsider a Light Rail Transit (LRT) for the Downtown Core, on December 12, 2018, the City of Brampton passed Resolution C293-2018 requesting the Region of Peel to cancel the tender and defer the work, pending further review.
- While work in the Downtown Core is paused, subsequent phases of the work, involving water and wastewater upgrades in two additional areas just outside of the Downtown Core are proceeding.

## **Update on Watermain and Sanitary Sewer Upgrades in Downtown Brampton, City of Brampton, Wards 1, 3, 4 and 5**

- As the LRT discussion is ongoing, the Region, in consultation with the City, recommends proceeding with the water and wastewater improvements followed by road reconstruction in the Downtown Core.
  - The works are required to address continued deterioration of City and Regional infrastructure in the downtown area only, and do not constitute full and final infrastructure replacement requirements.
  - Staff recommend that the current consulting assignment for CH2M Hill Canada Limited be extended to provide the additional services to complete the Interim Phase 1 works.
  - The interim project will be completed by the Region. The City and the Region will execute an agreement for the project to address legal matters, roles and responsibilities and cost sharing requirements for each of the City and Regional related works.
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### **DISCUSSION**

#### **1. Background**

The Region identified the requirement to replace/upgrade both water and wastewater infrastructure in Downtown Brampton in 2011 and undertook a project to design and construct new infrastructure on numerous streets. Region and City staff worked together to integrate the City of Brampton's downtown streetscaping project, 'Downtown Reimagined' into the Region's water and wastewater construction contract. The Region tendered Document 2018-522T in August 2018. Four submissions were received and the lowest bid of \$55,757,893.32 was to be cost shared by the Region and the City. The Region's share of the contract cost was \$18,355,278.91 and the City's share was \$37,402,614.41.

On December 12, 2018 the City of Brampton passed Resolution 16-3130-231 recommending that the Region cancel Document 2018-522T due to the bids being over budget and to provide time for the City to reconsider the extension of the Hurontario-Main Light Rail Transit to downtown Brampton as well as other major projects in the downtown core. Through Regional Council Resolution 2019-28, the Region subsequently cancelled the procurement process 2018-522T in January 2019.

Resolution 2019-28 stated that staff would report back to Regional Council with recommendations for the completion of the Regional water and wastewater infrastructure work identified in the Downtown Core including a risk assessment outlining any infrastructure work which may be required in advance of completing the longer term plan by the City of Brampton.

The subject Resolution also requested that the Region work collaboratively with the City on further infrastructure review to accommodate a future LRT as well as several other planning scenarios.

#### **2. Current Work**

The Region continues to proceed with several other supporting infrastructure works in the vicinity of the Downtown Core as shown on the map in Appendix I. These additional works are part of the Region's long-term state of good repair water and wastewater infrastructure

## **Update on Watermain and Sanitary Sewer Upgrades in Downtown Brampton, City of Brampton, Wards 1, 3, 4 and 5**

replacement program and also include infrastructure to service future growth in the downtown:

**Phase 1** (*Watermain on Queen Street from Mill Street South to Scott Street and on Main Street from Nelson Street to John Street*): At the City of Brampton's previous request, this phase is currently on hold pending an implementation plan for the various projects in the Downtown Core including consideration of various LRT alignments. An interim option is proposed as part of this report.

**Phase 2** (*Watermain on Queen Street from McLaughlin Road South to Mill Street South*): The detailed design of the watermain is ongoing and construction will commence in early 2021.

**Phase 3** (*Environmental Assessment for the Watermain on Centre Street*): The Environmental Assessment and preliminary design will be completed by the end of December 2020. A Request for Proposal will be issued to retain a consultant to complete the detailed design and construction services in early 2021. Construction is scheduled to commence in 2022.

**Phase 4** (*Watermain and Sanitary Works northwest of the Downtown Core*): Preliminary design has not commenced.

Although Phase 1 is on hold, the planning, design and construction of Phases 2, 3 and 4 are continuing as these are equally important to servicing the development in the Downtown Core to ensure the Region's long-term state of good repair and growth plans can be maintained.

### **3. Interim Phase 1 Works Proposed by City and Region Staff in the Downtown Core**

City and Region staff have continued to work collaboratively on an amended approach to the Phase 1 strategy to address both the infrastructure replacement and road replacement needs in the downtown area. A risk assessment completed by staff at the City and Region assessed several options for addressing the challenges and risk associated with the infrastructure in downtown Brampton.

Four options were considered by City and Region staff regarding infrastructure upgrades in the Downtown Core:

1. Do nothing - Do not proceed with any work in the downtown core and wait for a decision on the LRT;
2. Interim road works only - no water and wastewater work until a decision is made on the LRT;
3. Interim road and interim water and wastewater work;
4. Complete permanent road and permanent water and wastewater works under the assumption that an LRT will not be constructed. This option is similar to the original 2018 Downtown Reimagined tender.

A detailed analysis of the options and summary of the risk assessment can be found in Appendix II.

## **Update on Watermain and Sanitary Sewer Upgrades in Downtown Brampton, City of Brampton, Wards 1, 3, 4 and 5**

After a careful review of the options, staff recommends Option 3, an interim project consisting of interim water, wastewater and roads improvement be constructed. The interim solution will be designed to address the critical infrastructure in the Downtown Core that currently has a high risk of failure.

Option 3, the interim water, wastewater and road work, is the recommended path forward by City and Region staff as it provides interim protection from the high risk associated with the aging Regional and City infrastructure. Replacing the watermains within the Downtown Core will reduce the risk of future service interruptions and will increase the reliability of the Region's infrastructure. The interim servicing project will be designed as a low-cost solution recognizing the long-term LRT project will mandate a comprehensive utility overhaul.

As the interim Phase 1 work is intended to be a temporary solution due to aging infrastructure, the final Phase 1 works will be completed once a decision on the LRT route is finalized.

### **4. Proposed Direction**

City and Region staff will continue to work together to jointly assess and coordinate immediate and future infrastructure development requirements in the downtown core to be included in the interim Phase 1 works.

The City of Brampton is continuing with strategizing on the final overall LRT route including whether the LRT will be a surface route or a sub-surface route. The decision is not expected before the summer of 2021.

A decision to proceed with the LRT will require significant design effort and a longer construction period. This will include station and/or platform locations, electrical requirements and other related utility relocations and replacements. Any decision to proceed with LRT will require significant modification of Regional utilities. As this decision is outstanding, the ultimate utility design cannot be completed at this time.

Conversely, a decision to set aside the LRT project will result in a long-term development plan and will require improvements to all utilities in the downtown, not just those owned by the City and Region. It is anticipated that some form of the original Downtown Reimagined project will ultimately be implemented.

For the interim project, City and Region staff will draft a cost sharing agreement between the Region and the City related to design and construction fees for the replacement of water, wastewater and road infrastructure in downtown Brampton. The cost sharing agreement will address the major considerations of a joint project including liability, roles and responsibilities and the financial cost sharing. The construction of the Region's water and wastewater improvements will be combined with the City's roadworks in one project.

The design of the interim water, wastewater and road works will take approximately 12 months to complete, and the construction is estimated at 18-24 months. If a recommendation regarding LRT is made prior to tendering of the interim project further review of the applicability of the interim strategy will be completed.

## **Update on Watermain and Sanitary Sewer Upgrades in Downtown Brampton, City of Brampton, Wards 1, 3, 4 and 5**

CH2M Hill Canada Limited is the preferred Vendor to complete the design of the Interim Phase 1 works as they have provided prior design services on this project and are most familiar with the infrastructure in Downtown Brampton.

The timing of the final Phase 1 works can be discussed with Brampton staff once a decision on the LRT has been finalized. The design of Phases 2, 3, and 4 are proceeding as listed above.

### **RISK CONSIDERATIONS**

Appendix II includes a detailed risk assessment of the options considered for infrastructure needs in Downtown Brampton. The main risks and mitigation measures for proceeding with Option 3 include:

- The final LRT alignment will require a new design for Regional, City and other utilities including gas, hydro, telecommunications and other landscaping and/or streetscaping as part of the final design of the downtown core.
- To minimize future costs to relocate or replace relatively new infrastructure, all infrastructure constructed in Option 3 will be designed and constructed as economically as possible, including layout, design standards and materials used.
- Construction will create disruption to the Downtown area. Staff will work with the ward Councillors, the BIA and other stakeholders to design appropriate construction and traffic management plans.

Unless an interim or permanent infrastructure solution is selected, there is a high risk of failure to existing water and wastewater infrastructure and the road will continue to deteriorate. Additionally, deferring infrastructure replacement may impair the Region's ability to service additional development planned for the Downtown Core.

### **FINANCIAL IMPLICATIONS**

Sufficient funding is available under existing approved capital projects to carry out the report directions.

The costs for the interim project will be funded by both the Region and the City of Brampton based on actual costs submitted by both the design consultant and construction contractor. The additional design fees being requested to complete the Interim Phase 1 works is \$1,470,000 with a significant portion being funded by the City of Brampton. The Region will fund the construction portion of the works directly and the City will provide payment to the Region based on the cost sharing agreement and the actual work complete.

## Update on Watermain and Sanitary Sewer Upgrades in Downtown Brampton, City of Brampton, Wards 1, 3, 4 and 5

### APPENDICES

Appendix I – Region of Peel Watermain and Sanitary Sewer Replacement/Relining Program for Downtown Brampton

Appendix II – Options for Region's Water and Wastewater Infrastructure and City's Roadworks in Downtown Brampton

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*For further information regarding this report, please contact Andrea Pitura, P. Eng, Manager Capital Works Wastewater Collection and Conveyance, Ext. 3524, [andrea.pitura@peelregion.ca](mailto:andrea.pitura@peelregion.ca).*

*Authored By: Andrea Pitura, P. Eng, Manager Capital Works Wastewater Collection and Conveyance*

#### ***Reviewed and/or approved in workflow by:***

Department Commissioner, Division Director, Financial Support Unit and Procurement.

Final approval is by the Chief Administrative Officer.



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N. Polsinelli, Interim Chief Administrative Officer