City of Peterborough

To:	**Members of the Arts, Culture and Heritage Advisory Committee**
From:	**Erik Hanson, Heritage Resources Coordinator**
Meeting Date:	**February 26, 2015**
Subject:	**Report ACHAC15-009** **Bethune Street Flood Diversion Project Update**

Purpose

A report to provide information on the status of the Bethune Street Flood Diversion Project.

Recommendation

That the Arts, Culture and Heritage Advisory Committee approve the recommendation outlined in Report ACHAC15-009, dated February 26, 2015 of the Heritage Resources Coordinator, as follows:

That the update from Robert Dunford the Senior Project Manager for Utility Services, regarding the Bethune Street Flood Diversion Project, be received.

Budget and Financial Implications

There are no budgetary or financial implications associated with the recommendation.

Background

Following the July 2004 flood, the City of Peterborough undertook a Flood Reduction Master Plan for the Jackson Creek watershed. A range of alternative solutions were identified to reduce flooding throughout the watershed. The preferred alternative to mitigate flooding in the downtown area was a buried culvert below the Bethune Street right of way from Jackson Creek to Townsend Street. At this point, the diversion sewer will reconnect to Jackson Creek at its existing outlet to the Otonabee River.

A Schedule 'C' Municipal Class Environmental Assessment was undertaken in 2014. Phases 1 and 2 of this process were addressed in the Jackson Creek Flood Reduction Master Plan. The Jackson Creek Diversion Project is fulfilling the requirements of Phases 3 and 4 and has addressed alternative designs, their impacts and all mitigating measures. The public review period for the study ended on February 2, 2105 and no objections were received. As a result, detailed design work will begin this summer with construction due to commence in 2016. The detailed design will encompass both the engineering component and a redesign of the Bethune Street corridor to enhance the streetscape and prepare it for the contemplated revitalization of the area.

An information package on the status of the project is attached as Appendix A.

Submitted by:

Erik Hanson
Heritage Resources Coordinator

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Attachments:
Appendix A – Bethune Street Flood Diversion Project Information Package

Report ACHAC15-009 - Appendix A

City of Peterborough

MEMORANDUM

To: Erik Hanson, Heritage Resources Coordinator
From: Robert Dunford, Senior Project Manager
Date: February 13, 2015
Subject: Jackson Creek Diversion – Project Status

Erik,

As discussed I'm providing you an update on the status of the Jackson Creek Diversion Class Environmental Assessment project ("the Study").

The Study was undertaken to plan the route for the Jackson Creek Diversion project, which is essentially a very large sewer intended to divert high flows in Jackson Creek around the downtown area. The sewer is planned to eliminate flooding of Jackson Creek during a 100-year storm.

The recommended route for the diversion is as follows:

- An intake structure will be constructed on Jackson Creek, west of Bethune Street.
- The diversion sewer will follow the TransCanada trail from the intake to its intersection with Bethune Street, just north of Brock Street.
- The diversion will then be constructed under Bethune Street, south to Townsend Street.
- The diversion will then turn east and follow Townsend Street.
- An outlet structure will be established that outlets the diversion sewer into Jackson Creek at the existing outlet to the Otonabee River.

City Council endorsed the recommended route at its meeting of October 22nd, 2012. Since that time the Preliminary design work for the sewer has been advanced. The size of the diversion has been estimated to be at least 1.8 m deep by 3.0 metres under Bethune Street. Under Townsend Street the diversion is expected to require a twin sewer consisting of two sewers, each 1.2m deep by 2.4 m wide. Given the size of the diversion sewer, and a number of other municipal initiatives also in the corridor (sanitary sewer main replacement and trail connections) the entire Bethune Street corridor from Townsend Street north to Dublin Street will require reconstruction.

The Study was completed and published for final public review beginning in December 2014 and ending early February 2015. The study included a number of commitments

and guidelines for the detailed design work necessary for the Diversion sewer. These include:

- Environmental protection measures (water quality, erosion, material handling, creek flows, etc.)
- Tree preservation and replacement plan
- Development of a streetscape plan (see below)
- Consideration and mitigation for structural impacts to private property, dust and noise, access, transportation needs throughout the project, etc.

The Environmental Assessment was intended to support the route selection and construction of the diversion sewer. However, considering the other initiatives also proposed for Bethune Street, the most efficient use of municipal resources would be to complete the Diversion, Trail Connections and Sanitary Sewer Main Replacement all at the same time. For this reason, the Study identified and committed to a separate consultation and design exercise to plan the street reconstruction and future streetscape needs. This "planning" exercise will coincide with detailed design of the diversion sewer and recommendations will be presented to City Council for endorsement before proceeding with development of the construction tender.

The planning exercise is envisioned to include detailed public, agency and interest group consultation, as well as a great deal of input from City staff, across all departments. One key aspect to the staff/agency consultation that we're considering will be staff soliciting proactive involvement from City departments, advisory committees and interest groups. Prior to finalizing the streetscape plan, input and approval from City Council will be obtained.

As the development of the RFP for detailed design and the planning exercise advances I will consult with you and others for your input.

Please don't hesitate to contact me if you have any questions or comments.

Thanks,

Robert Dunford
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