



Corporate Report

Report from Transportation and Environmental Services, Engineering and Construction

Date of Report: July 26, 2013

Date of Meeting: August 12, 2013

Report Number: TES-226-2013

File: 18.45.250

Subject: Project P12-005, Municipal Services Improvements – Buckland Sewer, Approval to Change Scope and Increase Fees for Engineering Services

Recommendation

That Council approve an increase in scope for engineering services from Associated Engineering (Ont.) Ltd. to include the design of new storm sewers, replacement sanitary sewers and replacement watermain on Buckland Street and Herrick Avenue, with a corresponding increase in fees of \$59,985 from \$154,346 to \$214,331, plus HST.
FORTHWITH

Background

In August of 2012, Council granted approval for Associated Engineering to proceed with the engineering services for Project No. P12-005, Municipal Services Improvements – Buckland Sewer at a cost of \$154,346 plus HST.

Under the original scope of work, Associated Engineering was to review the configuration of the sewer situated in the wooded valley behind Buckland Street and then make a recommendation for its relocation. The original scope also allowed for flow monitoring and computerized flow modeling as part of a larger effort to provide as much combined sewage overflow (CSO) control as possible and practical when the sewer was relocated.

Report

Upon completion of their review, Associated Engineering recommended relocating the sewer away from the wooded valley to Westchester Crescent and Oakdale Avenue and diverting the sewage generated by Buckland Street and Herrick Avenue away from the valley system to Eastchester Avenue. To achieve this, the sewers on Buckland Street and Herrick Avenue would need to be relayed in a reverse direction.

Computer modeling of the sewer system also led to the recommendation for the installation of the new storm sewers on Buckland Street and Herrick Avenue. By removing the wet weather flows from the combined sewer system, one of the two CSO regulators in the system could be removed resulting in a new sewer system meeting the Ministry of the Environment's guidelines for CSO control.

In an effort to coordinate all the potential rehabilitation works, staff reviewed the condition of the watermain on Buckland Street and Herrick Avenue. The cast iron watermain is undersized with a history of breaks. Given the recommended sewer work, it is advantageous to replace the aged watermain at the same time and minimize future disruption to the residents.

The engineering effort required for the new storm sewers, the replacement of the sanitary sewers and the replacement of the watermain was not included in the original scope of work. To initiate this work, Council approval for the scope change and corresponding increase in engineering fees is required.

Financial Implications

The City Treasurer confirms there are sufficient funds in the project budget to accommodate this expenditure.

Submitted by:

Christine Adams, P. Eng.
Manager of Engineering and Construction

Prepared by:

Tim Marotta, P. Eng.
Design and Construction Engineer

Approved by:

Ron Tripp, P. Eng.
Director of Transportation and Environmental Services