TO:	**CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON MAY 28, 2018**
FROM:	**KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER**
SUBJECT:	**TENDER T18-48 SUPPLY AND INSTALLATION OF SEWER LINERS CURED IN PLACE PIPE (CIPP)**

RECOMMENDATION

That, on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to Tender T18-48:

a) The bid submitted by Insituform Technologies Limited at its tendered price of $3,343,421.00 (HST excluded), **BE ACCEPTED,** it being noted that the bid submitted by Insituform Technologies Limited was the lowest of three (3) bids and meets the City's specifications and requirements in all areas;

b) the financing for this project **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix "A";

c) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;

d) the approval given, herein, **BE CONDITIONAL** upon the Corporation entering into a formal contract, or issuing a purchase order for the material to be supplied and the work to be done, relating to this project (Tender T18-48); and

e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

2015-19 STRATEGIC PLAN

The 2015 – 2019 Strategic Plan identifies this objective under Building a Sustainable City; 1B – Manage and improve our water, wastewater and stormwater infrastructure and services.

PREVIOUS REPORTS PERTINENT TO THIS MATTER

None

BACKGROUND

Purpose

To award the annual contract to supply and install cured in place pipe (CIPP) sewer liners.

Context

The City of London uses trenchless sewer repairs, where appropriate, to repair damaged sewers without having to perform open cut construction. CIPP repairs involve inserting a resin filled felt or fiberglass tube into a sewer, inflating the tube and adding heat (via steam or hot water) or UV light to cure the resin. Once the resin cures, the tube has formed into a tight fitting pipe within a pipe. The result is a “new” sewer with a life expectancy of 50+ years.

DISCUSSION

The City of London’s annual sewer lining program uses trenchless technologies to reinstate and extend the life of existing storm and sanitary sewer infrastructure. This program avoids the large capital costs of open-cut construction by using cost effective trenchless technology. The installation of a liner can be completed in several days as compared to months for open cut repairs greatly reducing the social impacts.

The City of London began installing full-length sewer lining repairs in 1989. Beginning in the late 1990s the sewer lining program was expanded and became an important part of London’s capital renewal strategy. Since 2007 there have been over 210km of liners installed.

The 2018 program includes 7.5km of storm and sanitary sewer lining along various streets throughout the city with pipe sizes ranging from 200mm to 1200mm. Some of the large diameter storm and sanitary sewers will require flow bypass to accommodate the lining. Streets to be lined in 2018 include:

- Hayes Street,
- Warren Road,
- Bathurst Street,
- Clarke Road, and
- High Street.

Purchasing Process

Three bids were received as a result of this tender call on March 1, 2018 as summarized below. Insituform Technologies Limited submitted the overall low bid and meets our terms, conditions and specifications in all areas.

Contractor		Tender Price Submitted
1.	Insituform Technologies Ltd.	$3,343,421.00
2.	Capital Sewer Services Inc.	$4,160,792.00
3.	Clean Water Works Inc.	$5,199,395.00

The tender estimate prior to opening was $3,890,000.00 (excluding H.S.T.)

All tenders include a Contingency Allowance of $300,000.00. The value of this tender award is within the approved 2018 budget for this annual “Specialized Sewer Repairs” program. Funding for this project has been provided in ES269318.

Financial Impact

In 2015 a comprehensive analysis was undertaken to understand the annual cost savings achieved through the sewer lining program. When taking into account costs of pipe, labour, and appurtenances (ie. man holes, private drain connections, etc.), the annual cost savings in 2015 were approximately $4,300,000.

CONCLUSION

Civic Administration has reviewed the tender bids and recommends Insituform Technologies Limited be awarded the construction contact for the 2018 Cured in Place Pipe program.

The sewer lining program continues to be an important part of the City’s sewer infrastructure renewal strategy. The ability to repair sewers with minimal above ground impact provides an opportunity to perform necessary repairs while limiting disruptions to the general public in an extremely cost effective manner.

ACKNOWLEDGEMENTS:

This report was prepared with assistance from Dave Jones, C.E.T., Technologist II and Brian Nourse, P.Eng., in the Construction Administration Division.

PREPARED BY:	REVIEWED & CONCURRED BY:
UGO DECANDIDO, P. ENG. DIVISION MANAGER, CONSTRUCTION ADMINISTRATION	**SCOTT MATHERS, P. ENG. DIRECTOR, WATER AND WASTEWATER**

RECOMMENDED BY:
KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER

Attach: Appendix “A” Sources of Financing