

TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON FEBRUARY 19, 2020
FROM:	KELLY SCHERR, P. ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER
SUBJECT:	TRANSPORTATION MANAGEMENT CENTRE FIBRE OPTIC CABLE - SINGLE SOURCE

RECOMMENDATION

That on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer:

- a) Approval **BE GIVEN** to enter into a contract with Lorrion Technologies in the amount of \$96,653.48 excluding H.S.T. to install a Fibre Optic Duct on the Boler Road Bridge in accordance with the 'Procurement of Goods and Services Policy' Section 14.4 Single Source, Clauses e and I and Section 14.5 Clause b;
- b) The financing for this project **BE APPROVED** with 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 contract;
- c) Approval hereby given **BE CONDITIONAL** upon the Corporation negotiating satisfactory prices, terms and conditions with Lorrion Technologies to the satisfaction of the Managing Director, Environmental & Engineering Services and City Engineer or designate; and
- d) Approval hereby given **BE CONDITIONAL** upon the Corporation entering into a formal contract or having a purchase order relating to the subject matter of this approval.

COUNCIL'S 2019-2023 STRATEGIC PLAN

The following report supports the Strategic Plan through the strategic focus area of **Building a Sustainable City**. By continuing to improve the traffic signal system for the benefit of all road users and implementing infrastructure improvements and programs this will have the effect of managing congestion and travel times and improving safety for all modes of transportation, including transit.

BACKGROUND

Fibre optic communication network to connect the City's Data Centre to the Transportation Management Centre (TMC) located at the Emergency Operations Centre (EOC) on Boler Road, is part of the Transportation Intelligent Mobility Management System (TIMMS) project.

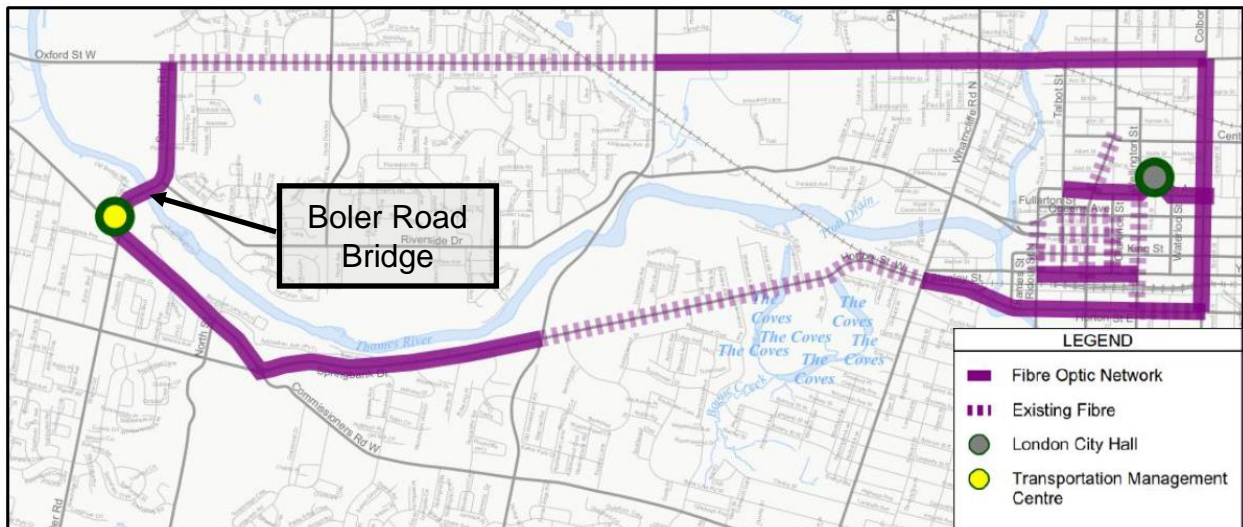


Figure 1: TIMMS Fibre Optic Communication Network

The first phase involves installing fibre optic cable along Boler Road/Sanatorium Road to connect to existing cable on Oxford Street West. Work in the boulevards between the EOC and Oxford Street West has proceeded; however, the existing ducts on the Boler Road Bridge are blocked along the bridge, resulting in the need to install a new duct on the bridge.

Rogers Cable will be installing a duct with fibre optic cable on the east side of the Boler Road Bridge as part of their ongoing infrastructure upgrade in the near future. City staff began negotiations with Rogers Cable and their contractor, Lorrion Technologies to install a new duct on the west side of the bridge as part of their planned work. The installation of the City's duct in conjunction with Rogers Cable's work minimizes the impact to motorists.

The installation of the fibre optic cable in the duct would be undertaken by the City's vendor of record for this type of specialized work. Completing this connect at this time will allow for the connection of 21 signalized intersections to the TMC, thereby avoiding monthly third-party communication expenses.

Installation of the fibre optic network will be done when other projects are undertaken along these routes or as stand-alone projects.

This recommendation is in compliance with the 'Procurement of Goods and Services Policy' Section 14.4 Single Source, Clauses e and I and Section 14.5 Clause b.

PREPARED BY:	REVIEWED AND CONCURRED BY:
SHANE MAGUIRE, P. ENG. DIVISION MANAGER, ROADWAY LIGHTING AND TRAFFIC CONTROL	DOUG MACRAE, P.ENG., MPA DIRECTOR, ROADS AND TRANSPORTATION
RECOMMENDED BY:	
KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER	

[https://cityhub/services/ees/roads/trans-op/CR/2020-02-19/2020-02-19-CWC-RPTwS-Boler Road Bridge Fibre Single Source v2 \(1 of 2\).docx](https://cityhub/services/ees/roads/trans-op/CR/2020-02-19/2020-02-19-CWC-RPTwS-Boler Road Bridge Fibre Single Source v2 (1 of 2).docx)
February 5, 2020/sm

Attach: Appendix A: Source of Financing

APPENDIX 'A'

Chair and Members
Civic Works Committee

#20015
February 19, 2020
(Award Contract)

**RE: Transportation Management Centre Fiber Optic Cable Single Source
(Subledger TF190023)
Capital Project TS180519 - TIMMS-PTIS - Transportation Intelligence Mobility Management System
Lorron Technologies - \$96,653.48 (excluding H.S.T.)**

FINANCE & CORPORATE SERVICES REPORT ON THE SOURCES OF FINANCING:

Finance & Corporate Services confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budget and that, subject to the approval of the recommendations of the Managing Director, Environmental & Engineering Services & City Engineer, the detailed source of financing for this project is:

<u>ESTIMATED EXPENDITURES</u>	<u>Approved Budget</u>	<u>Proposed 2020 Budget 2)</u>	<u>Revised Budget</u>	<u>Committed to Date</u>	<u>This Submission</u>	<u>Balance for Future Work</u>
Engineering		\$500,000	\$500,000			\$500,000
Traffic Signals	2,356,200	1,856,200	4,212,400	2,356,202	98,354	1,757,844
<u>NET ESTIMATED EXPENDITURES</u>	<u>\$2,356,200</u>	<u>\$2,356,200</u>	<u>\$4,712,400</u>	<u>\$2,356,202</u>	<u>\$98,354 1)</u>	<u>\$2,257,844</u>

SUMMARY OF FINANCING:

Debenture Quota	4)	\$62,840	\$62,840	\$125,680	\$62,840	\$2,623	\$60,217
Federal ICIP (Investing in Canada Infrast. Plan)		942,480	942,480	1,884,960	942,481	39,342	903,138
Provincial ICIP (Investing in Canada Infrast. Plan)		785,321	785,321	1,570,642	785,322	32,781	752,539
Drawdown from City Services - Roads Reserve Fund (Development Charges)	3)	565,559	565,559	1,131,118	565,559	23,608	541,951

<u>TOTAL FINANCING</u>		<u>\$2,356,200</u>	<u>\$2,356,200</u>	<u>\$4,712,400</u>	<u>\$2,356,202</u>	<u>\$98,354</u>	<u>\$2,257,844</u>
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1) **FINANCIAL NOTE:**

Contract Price	\$96,653
Add: HST @ 13%	12,565
Total Contract Price Including Taxes	109,218
Less: HST Rebate	10,864
Net Contract Price	<u>\$98,354</u>

2) This project is included in the 2020-2023 Multi-Year Budget, subject to final Council approval March 2, 2020.

3) Development charges have been utilized in accordance with the underlying legislation and the Development Charges Background Studies completed in 2019.

Note to City Clerk:

4) Administration hereby certifies that the estimated amounts payable in respect of this project does not exceed the annual financial debt and obligation limit for the Municipality from the Ministry of Municipal Affairs in accordance with the provisions of Ontario Regulation 403/02 made under the Municipal Act, and accordingly the City Clerk is hereby requested to prepare and introduce the necessary authorizing by-laws.

An authorizing by-law should be drafted to secure debenture financing for project TS180519 - TIMMS-PTIS - Transportation Intelligence Mobility Management System for the net amount to be debentured of \$125,680.00.