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<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON MAY 20, 2015</b>
<b>FROM:</b>	<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES AND CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>CONTRACT AWARD: TENDER NO. 15-51 COMMISSIONERS ROAD WEST WIDENING WONDERLAND ROAD SOUTH TO HUXLEY STREET</b>

<b>RECOMMENDATION</b>
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That, on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the award of a contract for the Commissioners Road Widening from Wonderland Road South to Huxley Street:

- (a) the bid submitted by Birnam Excavating Ltd., at its submitted tendered price of \$12,900,923.65 (excluding H.S.T.), for said project **BE ACCEPTED**; it being noted that the bid submitted by Birnam Excavating Ltd. was the lowest of four (4) bids received and meets the City's specifications and requirements in all areas;
- (b) Parsons Corporation, **BE AUTHORIZED** to carry out the resident inspection and contract administration of the said project in the amount of \$994,362.00 (excluding H.S.T.), in accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy;
- (c) the financing for this project **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix A;
- (d) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;
- (e) the approval given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract for the material to be supplied and the work to be done relating to this project (Tender 15-51); and,
- (f) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

<b>PREVIOUS REPORTS PERTINENT TO THIS MATTER</b>
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- March 18, 2002 – Environment and Transportation Committee - Appointment of Consulting Engineer
- December 12, 2005 - Environment and Transportation Committee – Environmental Study Report

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- November 16, 2009 - Environment and Transportation Committee  
– Appointment of Consulting Engineer
- March 3, 2015 – Civic Works Committee – Consulting Engineer Assignment Increase

## BACKGROUND

### **Purpose**

This report recommends award of a construction tender to a contractor and continuation of engineering consulting services for the Commissioners Road West Widening from Wonderland Road South to Huxley Street. The additional capacity on Commissioners Road West completes a missing arterial road link upgrade and reduces traffic delays.

The widening of Commissioners Road is a key deliverable of the Transportation Master Plan and Bicycle Master Plan. It supports the objectives identified in the Strategic Plan under Building a Sustainable City – Convenient and Connected Mobility Choices, by implementing and enhancing safe mobility choices for cyclists, pedestrians, transit users and drivers through the provision of a complete street.

### **Context**

The Commissioners Road West Widening project from Wonderland Road South to Viscount Road was identified in previous Transportation Master Plans (TMP) and confirmed in the recent 2030 Smart Moves TMP. The Commissioners Road West Widening Class Environmental Assessment commenced in 2003 and was approved in 2006.

The detailed design assignment was originally awarded in 2009 to accommodate the proposed construction in 2012. Construction was subsequently deferred until 2015 due to funding constraints. Since then, minor design changes and concerns with the condition of the existing sewer and water supply systems have arisen and resulted in an extension of the eastern limits of the contract by approximately 100 metres, from Viscount Road to Huxley Street. Previous reports expanded the scope of the consultant's design assignment to address these new infrastructure needs and they will be addressed as part of this project.

The area will be subject to extensive construction that involves a large diameter transmission water main, deep sewer infrastructure and the widening of a major arterial roadway. A larger single-phase one year construction project was evaluated but considered challenging from a logistical perspective, in addition to having a potentially larger impact on the area businesses and several high-rise, residential apartment buildings. It was therefore recommended to construct the project in two years in an attempt to minimize the impact on the local community.

The phasing of Commissioners Road West from Wonderland Road South to Huxley Street will be completed in two phases as follows.

- 2015 - Phase 1 – Andover Drive to Huxley Street (0.6 km length)
- 2016 - Phase 2 – Wonderland Road South to Andover Drive (1.2 km length)

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The Commissioners Road West widening project will provide for the coordinated installation of a sanitary sewer, sanitary forcemain and watermain. The project includes traffic signals, illumination, sidewalks, landscaping, upgrades to storm drainage, local sanitary sewer upgrades, replacement of watermain and noise attenuation where warranted.

The recommended improvements will allow for an increase in traffic flow and additional accessibility with the addition of auxiliary lanes in key locations. The addition of bicycle lanes in both directions will also provide a level of accessibility with added safety for cyclists. The inclusion of continuous sidewalks on both sides of the road will improve conditions for pedestrians. AODA upgrades such as the audible traffic signals and tactile sidewalk plates will also be included.

## DISCUSSION

### **Contract Design and Preparation**

Commissioners Road West between Wonderland Road South and Huxley Street is an arterial road and is over capacity. It accommodates an average of 24,000 vehicles per day and is designated as a 24 hour truck route. The corridor is currently two lanes wide and represents a vital link in the City of London's arterial road network.

The recommended improvements for this corridor include:

- Widening of the existing roadway to four lanes with auxiliary lanes to accommodate the existing and future travel demands and improve traffic safety;
- Sidewalks along both sides of the corridor to improve safety and accessibility for pedestrians;
- Cycle lanes to better accommodate commuter cyclists as recommended by London's Bicycle Master Plan;
- Upgrades to underground servicing including watermain and sewer installations;
- Installation of street lighting and traffic signal upgrades;
- Noise wall installations where warranted by the road widening; and,
- Boulevard tree plantings carried out under a subsequent landscaping contract.

The project will address concerns raised during the EA. Measures will include the improvement of driver sight distances and the creation of a more pedestrian friendly environment. Localized retaining walls will be incorporated to minimize impacts on trees and the Brick Street Cemetery.

### Utility Relocations

The road widening necessitated numerous utility relocations involving London Hydro, Union Gas, Bell Canada and Rogers. Utility relocations have been underway since the fall of 2014 and are expected to be complete late May 2015. The relocations were undertaken separately and partially funded by the City as necessary based on standard utility cost-sharing agreements.

### Tree Removal and Trimming

Tree removal and trimming as required was undertaken in September of 2014. These removals were done in advance of the London Hydro relocations. New tree planting will occur in the final stages of the project.



## **Construction Considerations**

### Traffic Staging

Due to the size and scope of the improvements, the project was broken down into two phases. Phase 1 of construction is anticipated to begin June 2015. Two lanes of traffic will be maintained throughout the duration of construction project with the exception of a one weekend road closure. Some work at intersections or at service crossing points may require weekend work, night work, consecutive shifts and the use of police services to control traffic.

### Permitted Road Closure

The Contractor will be permitted to close Commissioners Road West at Topping Lane for a period of two (2) consecutive days during Phase 2 to enable the installation of deep sewer infrastructure. The contractor must commence work on a Saturday at 7:00 a.m. and have Commissioners Road West completely reopen by Monday at 6:00 a.m.

The road closure will be communicated through means such as advance signage and a media release. All associated detour signing will be in place prior to the closure of Commissioners Road. Should the roadway not be reopened as specified, the contractor will be assessed delay charges.

Every effort is being made to ensure Londoners are aware of construction zones and traffic detours resulting from road work. Daily updates are provided through the City's website, [www.london.ca/construction](http://www.london.ca/construction) with information about road closures, ongoing and upcoming projects on city streets.

### Scheduling

Phase 1 of this construction project is anticipated to be substantially completed by the fall of 2015. As part of this phase, it is required that four lanes of traffic including fully functional left turn lanes shall be in place between Andover Drive and the east project limit. Prior to winter shutdown at the end of the 2015 construction season, all temporary and/or permanent roadway base asphalt, driveway entrances, pavement markings, guide rail, temporary barriers, protection systems and drainage will be in place for winter conditions.

Phase 2 of this construction project is anticipated to commence in April 2016 and substantially complete by October 2016. Every effort will be made to minimize inconveniences during construction.

## **Tender Process**

### Tender Summary

Tenders for the Commissioners Road West Widening from Wonderland Road to Huxley Street Project were opened on Wednesday, April 8<sup>th</sup> 2015.

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Four (4) contractors submitted tenders prices as listed below (excluding H.S.T.).

CONTRACTOR		TENDER PRICE SUBMITTED (\$)	CORRECTED TENDER PRICE (\$)
1.	Birnam Excavating Ltd.	12,900,893.63	12,900,923.65
2.	AMICO Infrastructures (Oxford) Inc	13,095,374.63	--
3.	J-AAR Excavating Ltd.	13,339,024.15	13,365,524.15
4.	Bre-ex Limited	14,172,521.31	14,203,789.31

All tenders have been checked by the Environmental and Engineering Services Department and Parsons Corporation. The review confirmed that only tenders submitted by Birnam Excavating Ltd., J-AAR Excavating Ltd., and Bre-ex Ltd. contained calculation errors resulting in revised Total Contract Prices as noted above. Birnam Excavating Limited experience was also reviewed and it was determined that they have the skill and knowledge and are regularly engaged in work similar to that covered by the contract drawings and specifications.

This project requires the utilization of funds from another project within the Transportation Growth Program. TS1470, the Commissioners Road Widening requires additional financing in the order of \$500,000 and this is available as a transfer of surplus funds that are available from the 2013 Oxford Street Widening project, TS1493, as both projects serve to improve deficient east/west components of the arterial road network. The projects are part of the program formulated in the Smart Moves 2030 Transportation Master Plan and identified in the Development Charges Background Studies. Although the tender amount was below the engineering estimate of \$13,900,000.00 (excluding H.S.T.), utilization of other available transportation project funds is required to balance the engineering, realty, utility relocation and construction costs of this large complex project.

### Consulting Services

The City retained Parsons Corporation (previously known as Delcan Corporation) through a competitive consultant acquisition process in 2002 to finalize the Commissioners Road West Widening Environmental Study Report. Council accepted the Environmental Study Report in December, 2005.

Parsons Corporation has also completed detailed design, preparation of property acquisition plans, consulted with London Hydro, Bell, Union Gas and Rogers on utility relocation requirements and administered the advance tree contract in 2014. With their knowledge and experience on this project, Parsons Corporation was requested to submit a proposal to carry out the contract administration and resident supervision for this project.

In accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy, Civic Administration is recommending that Parsons Corporation be authorized to carry out the remainder of engineering services as construction administrators to complete this project for a fee estimate of \$994,362.00 (excluding H.S.T.). The continued use of Parsons Corporation on this project for construction administration is of financial advantage to the City due to the fact that the firm has specific knowledge of the project

Agenda Item #

Page #

and has undertaken work for which duplication would be required if another firm were to be selected.

The City's requirement for the creation of record drawings following construction necessitates the reviewing engineer seal them on the basis of field verification and ongoing involvement. Consequently, the continued use of Parsons Corporation who created and sealed the design is required to not violate the City practice of Professional Engineers sealing record drawings. The approval of this work will bring the value of the overall consulting assignment to \$1,556,762.50.

<b>CONCLUSION</b>
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Parsons Corporation and Civic Administration have reviewed the tender bids and recommend that Birnam Excavating Ltd. be awarded the contract for the Commissioners Road West Widening from Wonderland Road to Huxley Street. Award of this contract will allow the project objectives to be met within the available budget and schedule.

Parsons Corporation has demonstrated an understanding of the City requirements for this project and it is recommended that this firm continue as the consulting engineer for the purpose of contract administration as it is to the best financial and technical interests of the City.

Anticipated additional annual operating costs to budgets in 2016 and subsequent years associated with the additional road infrastructure is \$26,000, new sewer infrastructure is \$4,500 and new street light infrastructure is \$4,500.

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**Acknowledgements**

This report was prepared with assistance from Ted Koza, P. Eng., Transportation Design Engineer, Max Kireev, C.E.T., Technologist II, both of the Transportation Planning and Design Division.

<b>PREPARED BY:</b>	<b>REVIEWED AND CONCURRED BY:</b>
<b>DOUG MACRAE, P.ENG DIVISION MANAGER, TRANSPORTATION PLANNING &amp; DESIGN</b>	<b>EDWARD SOLDO, P.ENG. DIRECTOR, ROADS AND TRANSPORTATION</b>
<b>RECOMMENDED BY:</b>	
<b>JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES &amp; CITY ENGINEER</b>	

TK/mk

Attach: Appendix A – Source of Financing  
Appendix B – Project Map

- c. P. Shack  
Parsons Corporation, 1069 Wellington Road South, Suite 214, London, ON, N6E 1H6  
Birnam Excavating Ltd., 7046 Nauvoo Road, Warwick Township, ON, N0N 1J4

Agenda Item #

Page #

**Appendix A**  
Source of Financing



## Appendix B

### Project Map

#### COMMISSIONERS ROAD WEST WIDENING FROM WONDERLAND TO HUXLEY STREET.

