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TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JULY 17, 2012
FROM:	JOHN BRAAM, P. ENG. ACTING EXECUTIVE DIRECTOR, PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES DEPARTMENT & CITY ENGINEER
SUBJECT	APPOINTMENT OF CONSULTING ENGINEER WEST BROUGH'S BRIDGE (2-BR-02) REHABILITATION DETAILED DESIGN & TENDERING

RECOMMENDATION

That on the recommendation of the Acting Executive Director, Planning, Environmental and Engineering Services Department & City Engineer the following actions **BE TAKEN** with respect to the appointment of a Consulting Engineer for the West Brough's Bridge (2-BR-02) Rehabilitation Project:

- (a) AECOM Canada Ltd. **BE APPOINTED** for the said project at an upset amount of \$150,653.80 (excluding H.S.T.), noting that this firm has provided a proposal for consultant engineering services, based upon the Fee Guideline for Professional Engineering Services recommended by the Ontario Society of Professional Engineers, and in accordance with Section 15.2 of the City of London's Procurement of Goods and Services Policy; it being noted that approval to proceed with subsequent phases of engineering services for this project will be subject to satisfying all financial, reporting and other conditions contained within this Policy;
- (b) the financing for this project **BE APPROVED** in accordance 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 project;
- (d) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with each Consultant for their respective project; and
- (e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

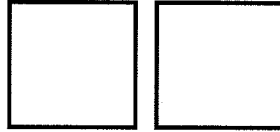
BACKGROUND

Purpose:

This report recommends the consultant to be appointed to complete the detailed design of the West Brough's Bridge Rehabilitation project.

Context:

West Brough's Bridge (2-BR-02), which carries the two (2) southbound lanes of Richmond Street over the North Branch of the Thames River, was originally constructed in 1963. The structure consists of a single span steel through truss with an overall length and deck width of 60.96m and 11.28m respectively.



The 2009 and 2011 Structure Inventory Inspections identified this structure as requiring major repairs to the bridge deck, deck joints, bearings, sidewalk and structural steel coating. This consultant assignment will complete the detailed design for the rehabilitation of this structure.

Discussion:

The West Brough's Bridge provides an important corridor linkage in north London carrying approximately 15,000 AADT (approximately 1/2 of the Richmond Street AADT) of southbound traffic over the Thames River.

The structure has shown progressive deterioration over the years. In 1996, Dillon Consulting completed a Detailed Inspection Report for the West Brough's Bridge which identified the concrete deck was in poor condition with active corrosion of the reinforcing steel over the majority of the deck area. A concrete deck replacement was recommended at the time, but not completed. In 2008, a bridge deck waterproofing and repaving operation was scheduled, but the work plan was expanded to include repairing approximately 30% of the deck surface that had severe delamination, and the installation of a 70mm concrete overlay to reinforce the deck and slow the deterioration. At that time, it was felt that a full deck replacement would be required within five (5) years. In addition, the north expansion joint is in poor condition with severe delamination, spalling, and sections of the steel finger joint supported by shoring posts. The seal is missing from the south expansion joint. Overall, the coating on the structural steel above the deck is in poor condition. Light to medium corrosion with flaking steel/paint was noted on the floor beams, stringers, bottom chord members and at connections. The bearings are in "fair" to "poor" condition with severe corrosion and section loss. The abutment walls and wingwalls are in "fair" condition with localized medium delamination, light spalling and corrosion staining.

The rehabilitation of this structure will address the deck, expansion joints, abutments, wingwalls, approaches, deck drains, substructure, bearings, along with improvements to the barrier system, sidewalk, curbing, bridge lighting and embedded services within the structure. Investing in the proposed work will extend the life of this structure for approximately another 30-40 years.

We are initiating the consultant design at this time in anticipation of construction in 2013.

AECOM Canada Ltd. has a long history of successful structural projects within the City of London and surrounding area. Their local office has a strong structural staff component fully capable of completing this assignment. City staff recommends AECOM Canada Ltd. be engaged to complete this assignment.

Conclusions

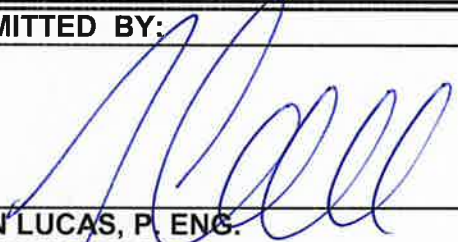

The recommendation of this report is to appoint AECOM Canada Ltd. to undertake the detailed design and tendering for the structural rehabilitation of the West Brough's Bridge, it being noted that approval to proceed with subsequent phases of engineering services for this project will be subject to satisfying all financial, reporting and other conditions contained within the Procurement of Goods and Services Policy.

The Civic Administration does not anticipate any additional annual operating costs to the Planning, Environmental and Engineering Services Department budget in 2013 and subsequent years associated with this assignment.

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Acknowledgements:

This report was prepared with the assistance of Jane Fullick, Technologist II and Karl Grabowski, Transportation Design Engineer of the Transportation Planning & Design Division.

SUBMITTED BY: 	RECOMMENDED BY: 
JOHN LUCAS, P. ENG. DIVISION MANAGER TRANSPORTATION PLANNING & DESIGN	JOHN BRAAM, P. ENG. ACTING EXECUTIVE DIRECTOR, PLANNING, ENVIRONMENTAL & ENGINEERING SERVICES DEPARTMENT & CITY ENGINEER

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Attachments:

Appendix "A": Source of Financing

- c: J. Braam
 J. Lucas
 I. Blevins, AECOM Canada
 H. Huotari, Delcan Corporation
 I. Bartlett, Stantec Consulting

APPENDIX 'A'

#12112

Chair and Members
Civic Works Committee

July 6, 2012
(Appoint Consulting Engineer)

RE: West Brough's Bridge Rehabilitation
Capital Project TS1763-11 - 2011 Bridges Major Upgrades
AECOM Canada Ltd. - \$150,653.80 (excluding H.S.T.)

FINANCE DEPARTMENT REPORT ON THE SOURCES OF FINANCING:

Finance Department confirms that the cost of this project can be accommodated within the financing available for it in the Capital Works Budgets and that, subject to the adoption of the recommendation of the Acting Executive Director, Planning, Environmental & Engineering Services Department & City Engineer, the detailed source of financing for this project is:

<u>ESTIMATED EXPENDITURES</u>	<u>Approved Budget</u>	<u>Committed To Date</u>	<u>This Submission</u>	<u>Balance For Future Work</u>
Engineering	526,908	373,602	153,306	0
Construction	1,244,092	1,089,081		155,011
City Related Expenses	29,000	28,827		173
NET ESTIMATED EXPENDITURES	<u>\$1,800,000</u>	<u>\$1,491,510</u>	<u>\$153,306</u> 1)	<u>\$155,184</u>
<u>SUMMARY OF FINANCING:</u>				
Federal Gas Tax	1,800,000	1,491,510	153,306	155,184
TOTAL FINANCING	<u>\$1,800,000</u>	<u>\$1,491,510</u>	<u>\$153,306</u>	<u>\$155,184</u>

1) **Financial Note:**

	<u>Total</u>
Contract Price	\$150,654
Add: HST @13%	19,585
Total Contract Price Including Taxes	170,239
Less: HST Rebate	16,933
Net Contract Price	<u>\$153,306</u>

2) There are no anticipated additional annual operating costs to the Planning, Environmental and Engineering Services budget in 2013 and subsequent years associated with the approval of this tender.

EH



Alan Dunbar

Manager of Financial Planning & Policy