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TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON APRIL 25, 2016
FROM:	JOHN BRAAM, P. ENG. MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER
SUBJECT:	BLACKFRIARS BRIDGE REHABILITATION DETAILED DESIGN & TENDERING APPOINTMENT OF CONSULTING ENGINEER

RECOMMENDATION

That on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the appointment of a Consulting Engineer for the Blackfriars Bridge Rehabilitation Project:

- (a) Dillon Consulting Limited, **BE APPOINTED** Consulting Engineers for the detailed design and tendering for the Blackfriars Bridge Rehabilitation Project at an upset amount of \$587,290 (excluding H.S.T.) in accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy;
- (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 approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the work; and,
- (e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents including rail-related agreements, if required, to give effect to these recommendations.

PREVIOUS REPORTS PERTINENT TO THIS MATTER
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- Environment and Transportation Committee – July 9, 2007 – Blackfriars Street Community Concerns
- Environment and Transportation Committee – February 8, 2010 – Appointment of Consulting Engineers – Bridge Rehabilitation Program and Traffic Studies, Meadowlily Bridge Evaluation and Blackfriars Bridge Risk Assessment
- Environment and Transportation Committee – April 26, 2010 – Appointment of Consulting Engineers - Traffic Study - Blackfriars Bridge Risk Assessment

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- Civic Works Committee - March 18, 2013 – Blackfriars Bridge Detailed Structural Inspection
- Civic Works Committee - September 9, 2013 – Blackfriars Bridge – Structural Repairs and Temporary Closure
- Civic Works Committee – May 26, 2014 – Appointment of Consulting Engineers, Blackfriars Bridge Environmental Assessment
- Civic Works Committee – February 2, 2016 – Blackfriars Bridge - Environmental Study Report

2015-19 STRATEGIC PLAN

The following report supports the Strategic Plan through the strategic focus area of *Building a Sustainable City* by conserving, repairing and sustaining an important Heritage Structure from the City’s past. This project will also improve mobility for cyclists, automobile users and pedestrians.

BACKGROUND

Purpose

This report recommends the appointment of a consulting engineer to complete the detailed design and tendering for the Blackfriars Bridge Rehabilitation project.

Context

The Blackfriars Bridge is an historic structure located in the heart of London. Designated as a Heritage Structure under the Ontario Heritage Act (Part IV) on April 21, 1992, and listed on the *Ontario Heritage Bridge List*, and the *Canadian Register of Historic Places*, this bridge is a rare and unique heritage asset from the City’s past. The Canadian Society of Civil Engineers (CSCE) will be recognizing the Blackfriars Bridge as a National Civil Engineering Historic Site as part of the annual conference being held in London in June.

The City undertook a detailed multi-disciplinary risk assessment of the structure in 2012 and a detailed structural inspection in 2013. Severe condition deterioration was identified that required the complete temporary closure of the bridge. Interim repairs were undertaken in Fall 2013 to reopen the bridge to pedestrians and cyclists for a limited timeframe (in the order of three years) until long term options could be selected. The Blackfriars Bridge Schedule ‘C’ Municipal Class Environmental Assessment (EA) was subsequently commenced to determine the long term future of this structure. The completed Environmental Study Report (ESR) recommends the rehabilitation of this structure to preserve its heritage value, prolong its life and enable the complete reopening of the structure for Londoners.

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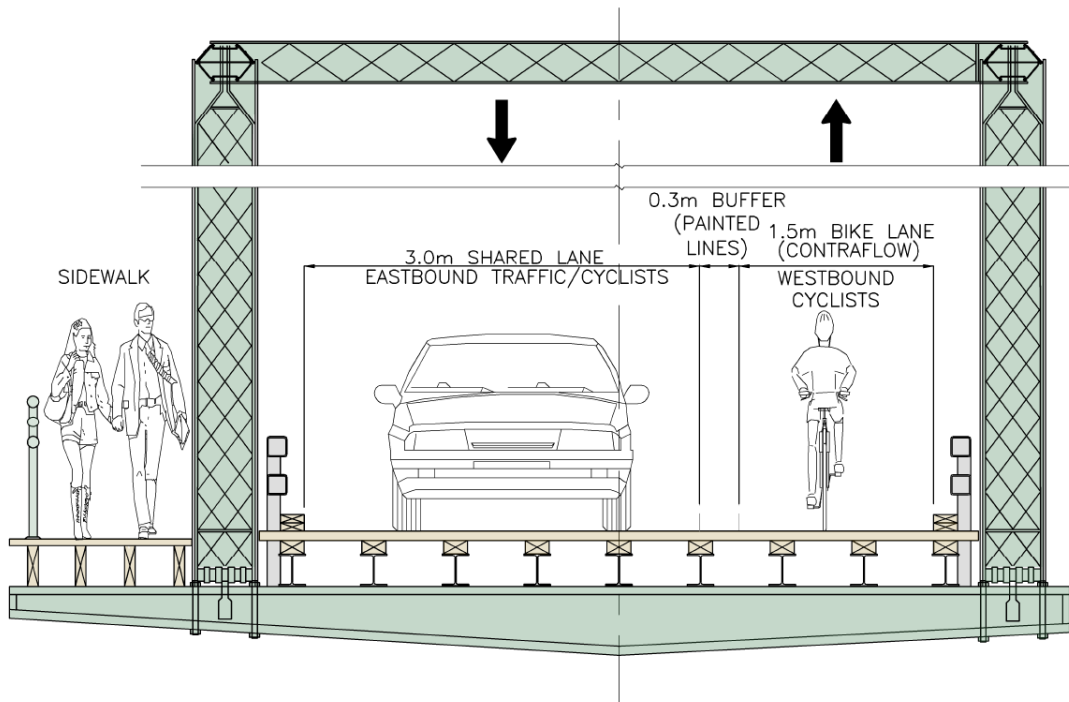
DISCUSSION

Project Description

The ESR was completed and approved by City Council on February 16, 2016. The ESR was subsequently placed on the public record for review until March, 30, 2016.

The preferred alternative recommended in the ESR includes the rehabilitation of the heritage structure with designated future uses as illustrated on Figure 2 as follows:

- Pedestrian sidewalk and enhanced pedestrian street crossings at the ends of the bridge;
- Cycling space shared with vehicles eastbound and a dedicated cycling lane westbound; and,
- Vehicular traffic restricted to one-way eastbound.



SECTION LOOKING WEST

One Part II Order request has been received with respect to the project EA. A Part II Order request is a request to the Minister of the Environment and Climate Change that a project be subject to a higher-order Individual EA process instead of the Municipal Class process that is typically applied to projects of this nature. The nature of this Part II Order request relates to the future use of the structure and the recommendation to re-open the bridge to one-way vehicular use in addition to pedestrians and cyclists.

Part II Order requests are resolved by a decision of the Minister after gathering and considering relevant information. The schedule for this process is unpredictable and potentially quite lengthy. The timing of this decision has the potential to delay the project.

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The municipality has the authority to proceed with the design of the project at its risk. The enclosed recommendation to proceed with the design phase is based on an assessment of the nature of the Part II Order Request. The Part II Order request received is not considered an objection to the project, only the subsequent use of the bridge. Therefore, any potential outcome of the Part II Order request would only affect minor elements of the design process - likely only the bridge deck material selection. Any potential revisions to the bridge rehabilitation design as a result of the Minister's decision should be manageable within the design assignment.

Notwithstanding the potential for delays associated with the Part II Order request, the project schedule envisions the bridge rehabilitation commencing in 2017 with the some work such as coating carrying over into 2018. The award of the design at this time aims to maintain this project schedule.

Consultant Selection

Dillon Consulting Limited was selected to complete the EA in early 2014 after a two stage process in accordance with Section 15.2 (e) of the Procurement of Goods and Services Policy. The 2012 Risk Assessment, and the 2013 Detailed Structural Inspection were also completed by Dillon Consulting Limited.

The design of the rehabilitation of this historic structure is a complex undertaking. Blackfriars Bridge is the product of an era when material costs were higher and structure designs were more slender. This contributes to its aesthetic value. The rehabilitation design and staging will need to carefully consider and analyze the order of operations to maintain the stability of the structure while individual members are treated.

Due to the consultant's intimate knowledge and experience with this project, Dillon Consulting was requested to submit a proposal to carry out the detailed design and tendering work needed to prepare a contract for rehabilitating this structure. Dillon Consulting has a long history of successful structural projects within the City of London and surrounding area. Dillon's local office has a knowledgeable structural staff component fully capable of completing this complex assignment.

In accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy, Civic Administration is recommending that Dillon Consulting Limited be authorized to carry out engineering services related to detailed design and tendering for the Blackfriars Bridge Rehabilitation project for a fee estimate of \$587,290 (excluding H.S.T.).

The continued use of Dillon Consulting Limited on this project for these additional services is of financial advantage to the City due to the fact that the firm has specific knowledge of the project and has undertaken work for which duplication would be required if another firm were to be selected. The approval of this work will bring the value of the overall consulting assignment to \$781,854. Funds for this assignment are available in the capital budget.

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CONCLUSION

Dillon Consulting Limited has demonstrated an understanding of the City requirements for this complex project and has acquired a detailed knowledge of the structure through previous assignments including a risk assessment and detailed structural inspection. It is recommended that Dillon Consulting Limited be appointed to undertake the detailed design and tendering for the rehabilitation of the Blackfriars Bridge.

There are no anticipated additional annual operating costs to the Environmental and Engineering Services Department associated with this assignment.

Acknowledgements

This report was prepared with assistance from Jane Fullick, C.E.T., Technologist II, Karl Grabowski, P. Eng., Transportation Design Engineer of the Transportation Planning and Design Division.

PREPARED BY:	REVIEWED AND CONCURRED BY:
DOUG MACRAE, P.ENG DIVISION MANAGER, TRANSPORTATION PLANNING & DESIGN	EDWARD SOLDI, P.ENG. DIRECTOR, ROADS AND TRANSPORTATION
RECOMMENDED BY:	
JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES & CITY ENGINEER	

Attach: Appendix A – Sources of Financing

- c. C. Haines, Dillon Consulting Limited, 130 Dufferin Avenue, Suite 1400, London, ON N6A 5R2