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TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON AUGUST 19, 2013
FROM:	EDWARD SOLDO, P. ENG. DIRECTOR, ROADS AND TRANSPORTATION
SUBJECT:	HIGHBURY AVENUE OVER CN RAIL BRIDGE REHABILITATION DETAILED DESIGN & TENDERING APPOINTMENT OF CONSULTING ENGINEER

RECOMMENDATION

That, on the recommendation of the Director, Roads and Transportation, the following actions **BE TAKEN** with respect to the appointment of a Consulting Engineer for the Highbury Avenue over CN Rail Bridge (4-BR-09) Rehabilitation Project (TS1763-12):

- (a) Stantec Consulting Ltd., 600-170 Queens Avenue, London, On, N6A 5J7, **BE APPOINTED** Consulting Engineers for the detailed design and tendering of the Highbury Avenue Bridge Rehabilitation Project at an upset amount of \$134,692.00 (excluding H.S.T.), noting that this firm has provided a proposal for consultant engineering services, in accordance with Section 15.2 (d) of the Procurement of Goods and Services Policy and based upon the fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers;
- (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 the Consultant for the work; 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 appointment of a consulting engineer to complete the detailed design of the Highbury Avenue over CN Rail Bridge Rehabilitation project.

Context:

The Highbury Avenue over CN Rail Bridge (4-BR-09), just north of Trafalgar Street was originally constructed in 1963. It is approximately 93 metres long, spanning Oakland Avenue at the north end, multiple CN Rail tracks and an access road at the south end. The bridge is a six (6) span concrete slab structure carrying four (4) lanes of traffic, two lanes each of north and southbound traffic.

The 2011 Structure Inventory Inspection program identified this structure as requiring major repairs. Various bridge elements were found to be in fair to poor condition including the abutments, wingwalls, piers, deck, deck joints, median, sidewalks and the bridge barrier system. This consultant assignment will complete the detailed design for the rehabilitation of this structure.

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DISCUSSION

The Highbury Avenue over CN Rail Bridge provides an important corridor linkage in east London with an average annual daily traffic count of approximately 40,000 of which roughly 10% is trucks.

Earlier work included a 2012 Preliminary Structural Design Report which identified the abutments, wingwalls and piers show severe disintegration, delamination and spalling, with some of the piers having exposed corroded reinforcing steel in several locations and numerous corrosion stains. There are medium to severe delaminations and spalling along the fascia and soffit of the sidewalk overhang, with exposed reinforcing steel. The existing aluminum railing system has several locations of impact damage to the pickets, and the concrete post at the northwest corner is also loose due to impact. The structure has shown progressive deterioration over the years, with chunks of concrete falling to the ground below and damage to the existing railings through vehicle impacts.

The rehabilitation of this structure will address the deck, expansion joints, abutments, piers, wingwalls, approaches, substructure, and bearing repairs, 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 years.

Consultant Selection

Four consulting firms were invited to submit proposals for this project. All four firms responded with written proposals including a summary of the project tasks, schedule, and costs. An evaluation committee reviewed the consultant submissions for the project.

Based on the evaluation criteria and selection process identified in the Request for Proposals, the evaluation committee concluded that the proposal from Stantec Consulting Ltd provides the best value to the City.

Stantec Consulting Ltd. has successfully completed structural projects within the City of London and surrounding area. This project will be managed through their local office.

In accordance with Section 15.2 (d) of the Procurement of Goods and Services Policy, Civic Administration is recommending that Stantec Consulting Ltd. be appointed as the consulting engineer for the detailed design and tendering of the project for a fee estimate of \$134,692.00 (excluding H.S.T.). Funding for this assignment will be from TS1763-12 Bridges Major Projects.

The City is initiating the detailed design at this time in anticipation of construction in 2014.

CONCLUSION

The recommendation of this report is to appoint Stantec Consulting Ltd. to undertake the detailed design and tendering for the structural rehabilitation of the Highbury Avenue over CN Rail Bridge.

Civic Administration does not anticipate any additional annual operating costs to the Environmental and Engineering Services Department budget in 2014 and subsequent years associated with this assignment.

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Acknowledgements

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

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

Attachment:

Appendix "A": Sources of Financing

- c: I. Bartlett, Stantec Consulting
- I. Blevins, AECOM Canada
- H. Huotari, Delcan Corporation
- C. Haines, Dillon Consulting