

Report to Civic Works Committee

To: Chair and Members
Civic Works Committee

From: Kelly Scherr, P. Eng., MBA, FEC
Deputy City Manager, Environment & Infrastructure

Subject: RFP-2024-078 Byron Bridge Rehabilitation
Detailed Design and Construction Administration
Appointment of Consulting Engineer

Date: June 11, 2024

Recommendation

That, on the recommendation of the Deputy City Manager, Environment & Infrastructure, the following actions **BE TAKEN** with respect to the appointment of a consulting engineer for the detailed design, tendering and construction administration of the Byron Bridge Rehabilitation:

- (a) The proposal submitted by Dillon Consulting Limited **BE ACCEPTED** to provide consulting engineering services to complete the detailed design, tendering, and construction administration services at an upset amount of \$403,749.50, excluding HST, as per Section 15.2 (e) of the Procurement of Goods and Services Policy;
- (b) the financing for this assignment **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 assignment;
- (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 agreements, if required, to give effect to these recommendations.

Linkage to the Corporate Strategic Plan

Municipal Council's Strategic Plan identifies Mobility and Transportation as a strategic area of focus. This report supports the Strategic Plan by identifying the building of infrastructure that provides safe, integrated, connected, reliable and efficient transportation choices.

Analysis

1.0 Context

The purpose of this report is to recommend the appointment of a consulting engineer to undertake the detailed design, tendering, and contract administration for an interim minor rehabilitation of the Byron Bridge. This project is recommended to address immediate structural needs, prevent future deterioration, and extend the service life of the bridge. Council approval of this consultant assignment is required in accordance with the City's Procurement of Goods and Services Policy.

2.0 Discussion and Considerations

2.1 Project Background

Byron Bridge was originally constructed in 1965 and is located on Boler Road over the Thames River (Figure 1). The structure is a five span precast concrete girder bridge and supports an average daily traffic volume of 21,000 vehicles per day and a significant number of pedestrians and cyclists. The structure has a sidewalk on the west side and supports a watermain and a sanitary sewer.

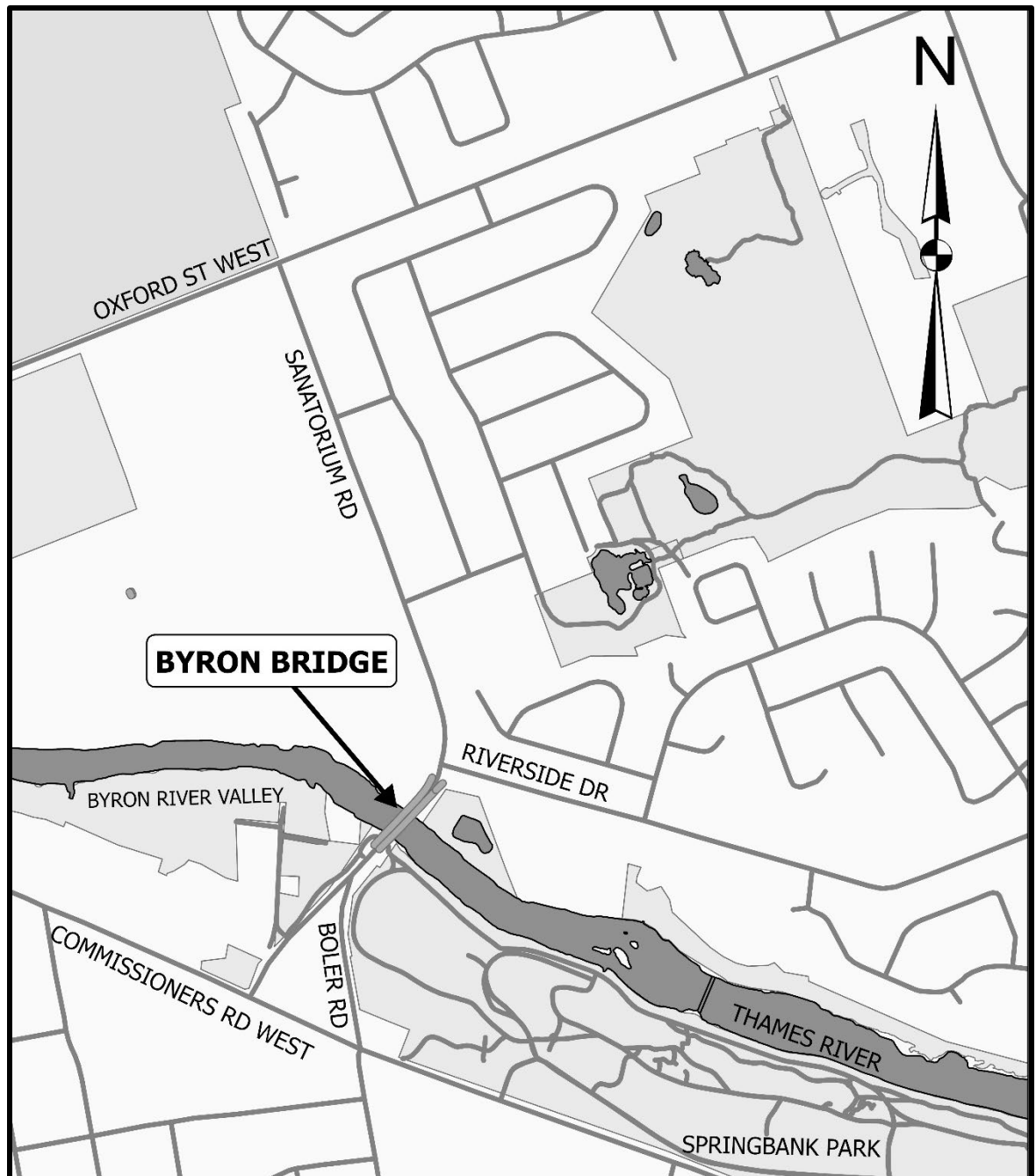


Figure 1: Byron Bridge, Boler Road over the Thames River

During the periodic inspection of the bridge in 2023, severe deterioration of the bridge girders was identified as a rehabilitation need. It is recommended that a minor rehabilitation be completed in the near term to address these immediate structural needs and to extend the structure's service life until such time as the bridge can be scheduled for replacement.

The proposed bridge rehabilitation includes:

- Prestressed girder repairs;
- Concrete patch repairs;
- Expansion joint improvements;
- Deck drain replacements;
- Localized repairs to the existing railings; and,
- Replacement of the existing asphalt and waterproofing system.

This project will also include localized repairs to the watermain and replacement of the sanitary sewer that are suspended from the bridge.

The functionality of the bridge was reviewed with respect to active transportation. This included examining the feasibility of widening the bridge to provide additional active transportation features. It was determined that it is not practically feasible nor cost-effective to widen the existing bridge given the bridge age, height, foundations and locations within the river. The scope of the current consulting assignment will include a review of options to determine the best manner to accommodate pedestrians and cyclists within the existing bridge deck width. In the longer term this bridge will require replacement which will provide an opportunity to create a new, wider bridge deck to better accommodate all users.

2.2 Procurement Process

The consultant selection process for this assignment has been undertaken in accordance with Section 15.2 (e) of the City's Procurement of Goods and Services Policy which states:

“Assignments for complex projects, or projects with estimated consulting fees greater than the CFTA threshold for goods and services limit as amended, shall be awarded based on a two (2) stage process with the first stage being an open, publicly advertised expression of interest/pre-qualification stage (REOI/RFPQ), and the second being a RFP of the short-listed firms, of which there shall be a minimum of three (3) qualified firms stating their approach to the proposed project and their experience and knowledge of projects similar in nature.”

A procurement process was completed under RFPQ-2023-800 to pre-qualify engineering consultants for design and contract administration of transportation infrastructure projects. As a second stage, RFP-2024-078, was issued for this project to solicit proposals from three qualified engineering consulting firms. City staff have reviewed all proposals, including the financial and technical components, and selected Dillon Consulting Limited as having the best submission to address the required scope of work and providing the best value for the city.

3.0 Financial and Schedule Considerations

Funds are identified in the capital budget for the engineering, detailed design, and construction administration of the Byron Bridge rehabilitation project as per the Source of Financing attached as Appendix A.

It is anticipated that construction will commence in 2025. As an important link across the Thames River, the service disruptions associated with this construction project will be carefully considered in coordination with the City's ReNew London Capital Construction Program. During construction, one lane of traffic will be maintained using temporary traffic control signals and pedestrian access will also be maintained during construction.

A communications plan for the construction will be developed early during design to inform residents, emergency services, schools and LTC of the impacts caused by the project.

Conclusion

It is recommended that an interim minor rehabilitation be completed on the Byron Bridge to improve its condition and ensure that the bridge remains in a good state of repair until it is scheduled for future replacement. The scope of the rehabilitation also includes localized repairs to the watermain and replacement of the sanitary sewer.

Through a competitive procurement process, Dillon Consulting Limited has demonstrated a comprehensive understanding of the requirements for this project. Based on the evaluation of their submitted proposal it is recommended that Dillon Consulting Limited be appointed as the consulting engineer to undertake the detailed design, tendering, and construction administration for the Byron Bridge rehabilitation project in the amount of \$403,749.50 excluding HST.

Council approval of this consultant appointment is required in accordance with the City's Procurement of Goods and Services Policy.

Prepared by: Garfield Dales, P. Eng., Division Manager,
Transportation Planning and Design

Submitted by: Doug MacRae, P. Eng., MPA, Director, Transportation
and Mobility

Recommended by: Kelly Scherr, P. Eng., MBA, FEC, Deputy City Manager,
Environment and Infrastructure

Appendix A: Source of Financing

c: Curtis Watson, P.Eng., Dillon Consulting Limited
Andrew Denomme, P.Eng., TP&D
Steven Mollon, City of London, Procurement & Supply

Appendix "A"

#24105

June 11, 2024

(Appoint Consulting Engineer)

Chair and Members

Civic Works Committee

RE: RFP-2024-078 Byron Bridge Rehabilitation Detailed Design and Construction Administration

(Subledger BR240001)

Capital Project TS176324 - Bridges Major Upgrades

Capital Project ES241423 - Infrastructure Renewal Program - Sanitary Sewers

Capital Project EW376523 - Infrastructure Renewal Program - Watermains

Dillon Consulting Limited - \$403,749.50 (excluding HST)

Finance Supports Report on the Sources of Financing:

Finance Supports confirms that the cost of this project can be accommodated within the financing available for it in the Capital Budget and that, subject to the approval of the recommendation of the Deputy City Manager, Environment and Infrastructure, the detailed source of financing is:

Estimated Expenditures	Approved Budget	Committed To Date	This Submission	Balance for Future Work
TS176324 - Bridges Major Upgrades				
Engineering	483,352	174,623	308,729	0
Construction	7,057,276	0	0	7,057,276
City Related Expenses	20,000	0	0	20,000
TS176324 Total	7,560,628	174,623	308,729	7,077,276
ES241423 - Infrastructure Renewal Program - Sanitary Sewers				
Engineering	1,993,977	1,326,894	93,184	573,899
Engineering (Utilities Share)	106,054	106,054	0	0
Land Acquisition	5,000	5,000	0	0
Construction	11,420,916	11,288,737	0	132,179
Construction (Utilities Share)	1,168,347	1,168,347	0	0
City Related Expenses	25,000	190	0	24,810
ES241423 Total	14,719,294	13,895,222	93,184	730,888
EW376523 - Infrastructure Renewal Program - Watermains				
Engineering	2,974,905	1,591,517	8,941	1,374,447
Construction	17,725,306	14,948,703	0	2,776,603
Relocate Utilities	1,457	0	0	1,457
City Related Expenses	993	993	0	0
EW376523 Total	20,702,661	16,541,213	8,941	4,152,507
Total Expenditures	\$42,982,583	\$30,611,058	\$410,854	\$11,960,671

Sources of Financing

TS176324 - Bridges Major Upgrades

Drawdown from Transportation Renewal Reserve Fund	4,760,628	0	0	4,760,628
Canada Community-Building Fund	2,800,000	174,623	308,729	2,316,648
TS176324 Total	7,560,628	174,623	308,729	7,077,276

ES241423 - Infrastructure Renewal Program - Sanitary Sewers

Capital Sewer Rates	8,812,878	8,812,878	0	0
Drawdown from Sewage Works Renewal Reserve Fund	2,382,015	1,557,943	93,184	730,888
Canada Community-Building Fund	2,250,000	2,250,000	0	0
Other Contributions	1,274,401	1,274,401	0	0
ES241423 Total	14,719,294	13,895,222	93,184	730,888

Appendix "A"

#24105

June 11, 2024

(Appoint Consulting Engineer)

Chair and Members

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RE: RFP-2024-078 Byron Bridge Rehabilitation Detailed Design and Construction Administration

(Subledger BR240001)

Capital Project TS176324 - Bridges Major Upgrades

Capital Project ES241423 - Infrastructure Renewal Program - Sanitary Sewers

Capital Project EW376523 - Infrastructure Renewal Program - Watermains

Dillon Consulting Limited - \$403,749.50 (excluding HST)

EW376523 - Infrastructure Renewal Program - Watermains

Capital Water Rates	12,193,444	12,193,444	0	0
Drawdown from Water Works Renewal Reserve Fund	7,084,217	2,922,769	8,941	4,152,507
Canada Community-Building Fund	1,425,000	1,425,000	0	0
EW376523 Total	20,702,661	16,541,213	8,941	4,152,507

Total Financing	\$42,982,583	\$30,611,058	\$410,854	\$11,960,671
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Financial Note:	TS176324	ES241423	EW376523	Total
Contract Price	\$303,389	\$91,573	\$8,787	\$403,749
Add: HST @13%	39,441	11,904	1,142	52,487
Total Contract Price Including Taxes	342,830	103,477	9,929	456,236
Less: HST Rebate	-34,101	-10,293	-988	-45,382
Net Contract Price	\$308,729	\$93,184	\$8,941	\$410,854

Jason Davies
Manager of Financial Planning & Policy

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