

Municipality of Chatham-Kent
Infrastructure and Engineering Services
Engineering Division

To: Mayor and Members of Council

From: Brendan Falkner, P.Eng.
Manager, Engineering

Date: June 9, 2023

Subject: Tender Award - Contract T23-217 – LO Stonehouse Memorial Walkbridge over the Sydenham River Bridge Rehabilitation

Recommendations

It is recommended that:

1. The tender in the amount of \$2,304,500.35 (including HST) for the LO Stonehouse Memorial Walkbridge over the Sydenham River Bridge Rehabilitation, be awarded to Dayson Industrial Services Inc.
2. Consulting engineering fees in the amount of \$114,695.00 (including HST) for consulting engineering services for the LO Stonehouse Memorial Walkbridge over the Sydenham River Bridge Rehabilitation, be awarded to Dillon Consulting Limited.
3. The Mayor and Clerk be authorized to enter into the recommended agreements.

Background

The LO Stonehouse Pedestrian Bridge is in the Community of Wallaceburg and serves as one of the main pedestrian crossings over the Sydenham River. This structure was originally constructed in 1910, and then rehabilitated and converted to a pedestrian bridge in 1983. This bridge has a north-south orientation and is located between the Lord Selkirk Bridge and the Murray Street Bridge.

This steel truss pedestrian bridge carries pedestrian traffic across the Sydenham River in four non-continuous spans with a total crossing length of approximately 81.0 m and a maximum navigational clearance of approximately 2.3 m. The deck has a width of approximately 2.0 m. This bridge contains a movable lift span to allow larger boats to pass.

In 2003, the south span was replaced, the main span and lift spans were repaired and repainted, and a new winch tower and enclosure was installed.

A rehabilitation to the north span was completed in 2014.

An October 2019 Ontario Structure Inspection Manual (OSIM) report identified isolated locations of deteriorated structural components and recommended that a detailed investigation be completed.

In December 2020, Dillon Consulting was retained to complete a detailed condition assessment. During a second review of the structure in November 2021, due to deteriorated structural components such as stringers, bracing, floor beams and bottom chords of the trusses, Dillon Consulting recommended that the bridge be closed in the interest of public safety. The bridge was immediately closed and remains closed.

On March 28, 2022, Chatham-Kent Council approved administration to proceed with the rehabilitation of the LO Stonehouse Pedestrian Bridge.

In July 2022, Dillon Consulting Ltd. was retained to provide consulting engineering services for the rehabilitation of the LO Stonehouse Bridge.

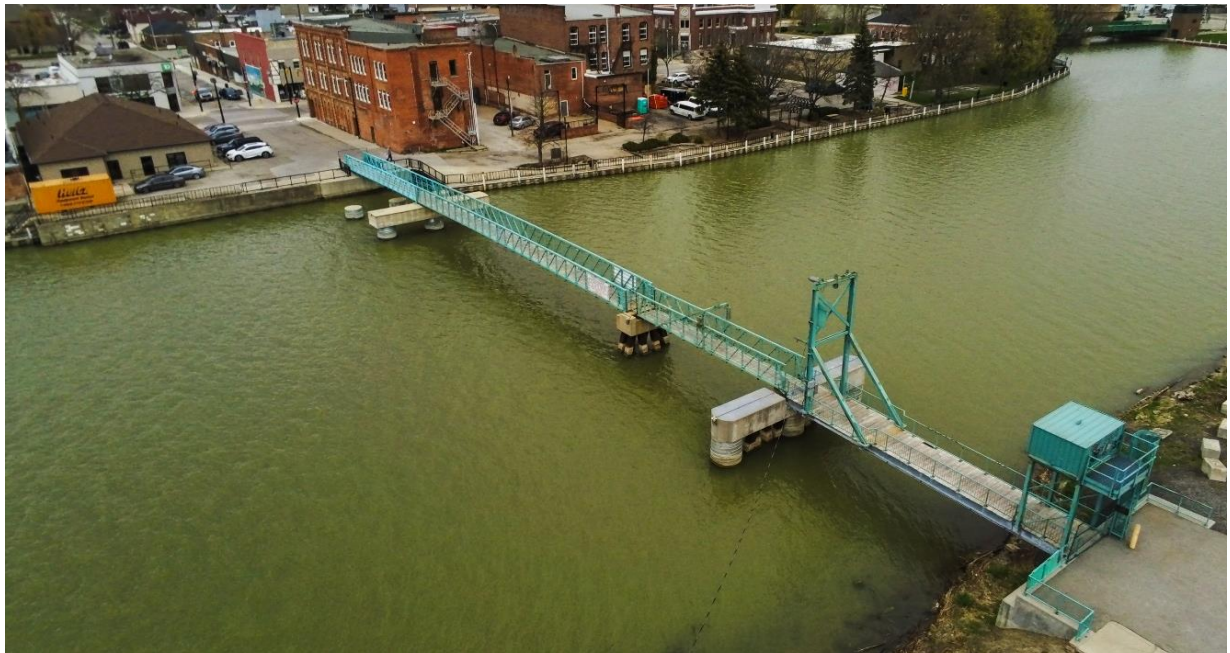


Figure 1 - Photo of the LO Stonehouse Memorial Walkbridge over the Sydenham River

As legislated under the Public Transportation and Highway Improvement Act, bi-annual inspections have been conducted to continually monitor the condition of the structures and to ensure public safety.

Comments

This contract consists of the following work:

- Removal and replacement of the main span and lift span with a truss structure like the existing structure.
- The width of the lift span will be increased to match the width of the other spans.
- Rehabilitate and recoat the north span and south span.
- Mechanical and electrical upgrades to the winch tower and controls.
- Installation of new concrete light standards.
- Installation of LED accent lighting.
- Modifications to some of the concrete piers.

The contractor is required to complete the project by May 15, 2024, coinciding with the beginning of the navigation season. The existing structure will remain closed to pedestrian traffic during construction. The contractor will accommodate the Wallaceburg Antique Motor and Boat Outing (WAMBO) Special Event by providing adequate space to accommodate boats to pass through the construction area.

The consulting engineering fees recommended are to complete inspection and contract administration throughout construction.

In accordance with Purchasing By-law #166-2020, the purchasing tender was advertised on May 10, 2022, and closed on June 9, 2023. A total of 16 potential bidding contractors (including contractors, sub-contractors, and suppliers) obtained a copy of the contract document from the Chatham-Kent Bids & Tenders website, and 3 tender bids were submitted. The bid results and ranking are outlined in Table 1.

**Table 1: Bid Results for T23-165
LO Stonehouse Memorial Walkbridge over the Sydenham River - Bridge Rehabilitation**

Rank	Bidder	Location	Amount (incl. HST)
1	Dayson Industrial Services Inc.	Hamilton, ON	\$2,304,500.35
2	Landform Civil Infrastructures Inc	Hamilton, ON	\$2,758,657.70
3	Facca Incorporated	Ruscom, ON	\$2,985,460.00

Areas of Strategic Focus

This report supports the following areas of strategic focus:

			
Economic Prosperity	Healthy & Safe Community	People & Culture	Environmental Sustainability
1.1			

Consultation

The tenders were received by the Purchasing Division and reviewed by the Engineering Division and Dillon Consulting Limited.

Communication

The tender documents were posted on the Bids & Tenders website for prospective contractors to review. Unsuccessful bidders will be notified by the Purchasing Division through the Bids & Tenders website.

Construction updates for this project will be posted to the Chatham-Kent Construction Project website (www.chatham-kent.ca/constructionprojects). Construction signage will be implemented in accordance with Ontario Traffic Manual Book 7 to inform residents of traffic impacts. Road closure notices will be issued for the bridge closures associated with the work in this contract.

Diversity, Equity, Inclusion and Justice (DEIJ)

The rehabilitation of the LO Stonehouse Bridge will create a more accessible and inclusive environment by ensuring compliance with current AODA (Accessibility for Ontarians with Disabilities Act) standards, allowing individuals of all ability to safely use the bridge to facilitate seamless transportation throughout the community.

Financial Implications

Table 2: Recommended Costs and Funding Summary

Description	Total
A) Recommended Tender Costs	
Recommended Costs	\$2,039,380.84
Plus 13% HST	\$265,119.51
Total Cost (with HST)	\$2,304,500.35
Less 11.24% HST	(229,226.41)
Total Recommended Tender Costs	\$2,075,273.94
B) Recommended Engineering Costs	
Recommended Costs	\$101,500.00
Plus 13% HST	\$13,195.00
Total Cost (with HST)	\$114,695.00
Less 11.24% HST	(11,408.60)
Total Recommended Engineering Costs	\$103,286.40
Total Recommended Costs (A + B)	\$2,178,560.34
C) Recommended Funding	
Bridge Lifecycle Reserve	\$2,178,560.34
Total Recommended Funding	\$2,178,560.34
D) Project Costs to Date	
Recommended Construction Tender	\$2,304,500.35
Original Contract Design (July 22, 2022)	\$74,919.00
Municipal Class EA (July 22, 2022)	\$71,529.00
Contract Amendment – Mechanical (October 26, 2022)	\$67,065.50
Recommended Contract Amendment	\$114,695.00
Total Project Costs to Date	\$2,632,708.85

The total current project costs listed above will be funded from the Bridge Lifecycle Reserve, which includes funds under the Association of Municipalities of Ontario (AMO) Federal Transfers of Canada Community-Building Fund (CCBF).

Prepared by:

Jason Cikatricis, C.E.T., Engineering Technologist I

Reviewed by:

Brendan Falkner, P.Eng., Manager, Engineering

Mark McFadden, P.Eng., Acting Director, Engineering

Edward Soldo, P.Eng., General Manager, Infrastructure and Engineering Services

Consulted and confirmed the content of the consultation section of the report by:

Jennifer Scherle, Manager, Purchasing and Accounts Payable

Attachment: Appendix A – Recommendation Letter