



Report to: Development Services Committee

Report Date: May 29, 2012

SUBJECT: Award of Tender 072-T-12 Rehabilitation of John Street CNR Overhead Bridge (B42)

PREPARED BY: Hossein Sharif, Senior Capital Engineer, Ext. 2382
Eugene Chen, Senior Capital Works Engineer, Ext. 2451
Tony Casale, Senior Buyer, Ext. 3190

RECOMMENDATION:

- 1) THAT the report entitled “Award of Tender 072-T-12 Rehabilitation of John Street CNR Overhead Bridge (B42)” be received;
- 2) AND THAT tender 072-T-12 for the Rehabilitation of John Street CNR Overhead Bridge (B42) be awarded to the lowest priced Bidder, Marbridge Construction Ltd. in the amount of \$941,987.23 inclusive of HST impact;
- 3) AND THAT a contingency be established in the amount of \$37,679.49 (4% of construction award) inclusive of HST impact to cover any additional construction costs;
- 4) AND THAT the existing purchase order # PD 10227 with G.D. Jewell Engineering Inc. to provide additional contract administration and construction services be increased in the amount of \$50,316.38, inclusive of HST impact;
- 5) AND THAT the award be funded from available funds in 2010 capital account 058-5350-10267-005 “Bridge Improvement-John St. W of Leslie St.” in the amount of \$607,266;
- 6) AND THAT the shortfall of \$422,717 be funded from available surplus in capital account 058-6150-8464-005 “Bridge Improvement - Green Lane (W of Leslie)” with funds to be transferred into capital account 058-6150-10267-005 “Bridge Improvements – John St. W of Leslie St;
- 7) AND THAT Staff be authorized and directed to do all things necessary to give effect to this resolution.

PURPOSE:

The purpose of this report is to obtain Council approval to award Tender 072-T-12 Rehabilitation of John Street CNR Overhead Bridge (B42).

BACKGROUND:

Pursuant to legislative requirements outlined in the Public Transportation and Highway Act - Regulation 104/97, the Town implemented an annual structures inspection program to identify maintenance needs to protect and prolong the life of structures.

Since 2004, the Town has undertaken regular inspection of structures. The John Street Bridge over CN Rail consists of two (2) three span bridges which run side by side. The first bridge

located on the south side was constructed in 1963 and the north bridge, was constructed in 1987.

Pursuant to the 2009 structures inspection program, the John Street Bridge was identified for further investigation. In August 2010, the Town retained G.D. Jewell Engineering to carry out a detailed condition survey and detail design. The visual inspection report identified deficiencies in the deck waterproofing, abutments, piers and expansion joints and recommended replacement of the joints together with minor concrete repairs. The consultant proposed two design options with respect to expansion joint replacement;

The proposed rehabilitation work includes the following for both options;

- Replacement of deck waterproofing;
- Replacement of expansion joints with new deck joint assemblies;
- Repairs to the deck, abutments, piers and wingwalls;
- Replacement of sidewalks, barrier walls and upgrade guide rails to current standard.

Bid Information:

Advertised	ETN
Bids closed on	May 16, 2012
Number picking up bid documents	23
Number responding to bid	5

Detailed Pricing Information:

Company	(Incl. HST impact)
Marbridge Construction Ltd.	\$ 941,987.23
Belor Construction Ltd.	\$ 1,053,080.55
Bridgecon Construction Ltd.	\$ 1,184,791.68
Brennan Paving & Construction Ltd.	\$ 1,371,383.90
Anskon Contracting Inc.	\$ 1,358,146.76

Note: The tender document requested pricing for two options for the bridge repairs. Based on the tender prices, staff recommends Option 2 as this option will extend the service life of the bridge for approximately fifty (50) years and offers good value to the Town.

OPTIONS/ DISCUSSION:

The original capital funding request (#10267) for design, construction and contract administration was made in 2009 in the amount of \$685,200.00 based on a 2009 detailed visual inspection.

A detailed condition survey (coring and testing) was completed in October 2010 which identified additional deficiencies including severe deterioration of the concrete in the abutments, wing walls and piers. Furthermore, the barrier walls did not meet the Ontario Code requirements.

The increase in rehabilitation cost is due to the identification of additional deficiencies through 2010 detailed condition survey following the original capital funding request made in 2009.

Through RFQ 110-Q-10, G.D Jewell Engineering Inc. was awarded contract administration and construction inspection services in the amount of \$19,966 based on a construction timing of 8 weeks (25 hours/week). On completion of the detailed design, it was determined that a construction time of 18 weeks is required. Based on full time inspection (8 hours/day), contract administration and construction inspection services will increase to \$70,282.38 including a contingency of \$2,554.

The project is expected to commence in early July and completed by November 2012. The proposed work includes lane restrictions in which the current four (4) lanes will be reduced to two (2) lane traffic during construction.

The detailed design for this project was completed by the Asset Management Department and the construction of the project will be administered by the Engineering Capital Works group in accordance to the E3 initiative.

The traffic management plan for this project has been reviewed by Asset Management, Operations and Engineering staff. Town staff and the contract administrator will arrange for advertisements, notices and flyers prior to and during construction.

FINANCIAL CONSIDERATIONS AND TEMPLATE:

The following is a summary of the financial consideration for this report:

Original Budget and Account #	\$685,200.00	058-5350-10267-005, Bridge Improvement – John Street W of Leslie St (B42)
Current Budget Available	\$607,266.00	
Less: Construction Cost	\$941,987.23	Award to Marbridge Construction Ltd.
Less: Construction Contingency (4%)	\$37,679.49	
Less: Contract Administration and Construction Inspection	\$50,316.38	Award to G.D. Jewell Engineering Inc.
Budget Shortfall	(\$422,717.10)	To be funded from Capital Budget account 058-6150-8464-005, Bridge Improvement – Green Lane W of Leslie (B30)*

** The shortfall of \$422,717.10 will be funded from the surplus funds in capital project 058-6150-8464-005. After funding this project, the remaining funds in Green Lane will be returned to the original funding source. Current balance in 058-6150-8464-005 is \$451,300. Green Lane Bridge Improvements project is now complete. All figures above include HST impact.*

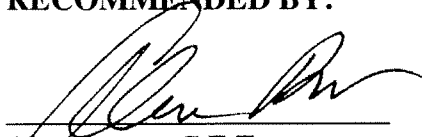
HUMAN RESOURCES CONSIDERATIONS:

Not applicable.

BUSINESS UNITS CONSULTED AND AFFECTED:

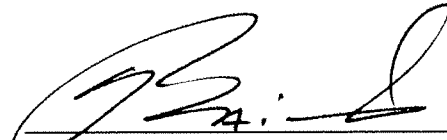
The Asset Management and Finance Departments has been consulted, provided input and reviewed this report.

RECOMMENDED BY:



Alan Brown, C.E.T.

Director, Engineering

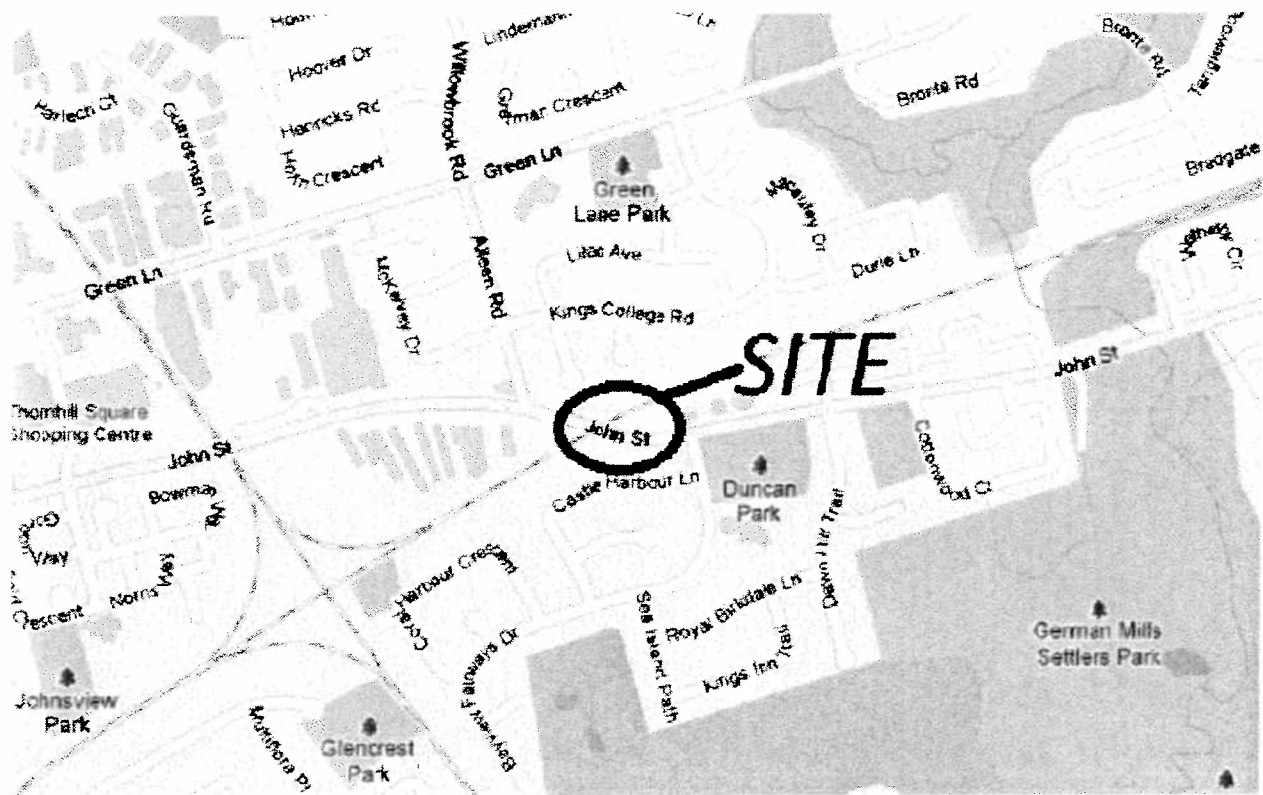


Jim Baird, M.C.I.P., R.P.P.

Commissioner, Development Services

ATTACHMENTS:

Attachment 'A' - Key Plan



Key Plan - John Street / CNR Overhead Bridge (B42)