



Infrastructure Services

Prepared for	Council-in-Committee	Report No.	IS-15-2021
Agenda Date	April 19, 2021	File No.	360201

Subject

**AWARD OF TENDER FOR OTT ROAD BRIDGE (S051B)
REPLACEMENT-CONTRACT NO. ISE-21T-BRIG20**

Resolutions

- THAT** Council accepts and approves the tender submission for the Ott Road (S051B) Replacement - Contract No. ISE-21T-BRIG20 from Anthony's Excavating Central Inc. in the amount of \$1,422,951.26 (including 13% HST); and further
- THAT** Council approves the extension of the Ellis Engineering Inc. assignment for contract administration and inspection services in the amount of \$139,837.50 (including 13% HST).

Relation to Council's 2018-2022 Corporate Strategic Plan

Priority: 2: Sustainable Infrastructure for the Future

Strategic Objective: Maintaining and Investing in sustainable infrastructure that services the entire community and builds a strong, vibrant and attractive community

List of Stakeholders

- 1) Mayor and Council of the Town of Fort Erie
- 2) The Ratepayers of the Town of Fort Erie
- 3) The Motoring Public within the Town of Fort Erie
- 4) ELLIS Engineering Inc
- 5) Anthony's Excavating Central Inc.
- 6) Remaining Bidders

Prepared by:	Submitted by:	Approved by:
<i>Original Signed:</i>	<i>Original Signed:</i>	<i>Original Signed:</i>
Robert D. Judd, P.Eng. Municipal Engineer – Infrastructure Renewal	Kelly M. Walsh, P.Eng. Director, Infrastructure Services	Tom Kuchyt, CET Chief Administrative Officer
<i>Original Signed:</i>		
Tim Marotta, P.Eng. Manager, Engineering Division		

Purpose of Report

The purpose of this report is to advise Council of the tender process for the Ott Road (S051B) Replacement - Contract No ISE-21T-BRIG20 project and to request Council's approval to award the tender of Contract No. ISE-18T-BRIG20 to Anthony's Excavating Central Inc. of Wellandport, Ontario in the amount of \$1,422,951.26 (including 13% HST).

Council's approval is also requested to extend an existing engineering assignment to Ellis Engineering Inc. to include contract administration and inspection services in the amount of \$139,837.50 (including 13% HST).

Analysis

Background

The Ott Road structure was identified as a "1 to 5" year priority in the Town's 2017 Bridge Assessment. The deck and travel surface is in poor condition with several potholes that require ongoing maintenance. The design phase for replacement of this structure was initiated in the 2019 Capital Budget. Appendix '1' to this administrative report provides the project location map.

Structure S051B provides a two lane wide crossing of Ott Road over Black Creek Municipal Drain. This section of Ott Road is considered a collector road and has an ADT of 465 vehicles per day.

Council accepted and approved the proposal from Ellis Engineering Inc. to provide engineering design services for the replacement of Ott Road Bridge (S051B) – Contract ISE-19P- BRIG20 to the upset limit of \$100,920.30 (including 13% HST) at the December 2, 2019 Council-in-Committee meeting.

Through Council's adoption of the 2020 budget, Town Staff were authorized to proceed with the tender issue for the structure replacement once design was completed. There are available detour routes so construction will proceed with Ott Road closed for the duration of the project.

The detour roads are Bowen Road, Point Abino Road, Fox Road and Ott Road, south of West Main Street. Road condition of the detour routes will be monitored prior to start of construction.

All work must be completed and the roadway opened to normal traffic, by November 26 2021.

The design and specifications have included provisions to ensure the contractor does not encroach onto or disturb the Stevensville Reformed Mennonite Church and Cemetery that is located along the southeast quadrant of the project area, adjacent to the existing roadway.

The new bridge will be a single span reinforced concrete slab-on-steel girder bridge, with new integral abutments supported on H-pile foundations behind the existing abutments. The existing abutments and wingwalls will be retained to eliminate any in-water work. New reinforced concrete parapet walls with railings will be installed over the bridge structure. New steel beam guide rails and energy attenuating end treatments will be installed at the four corners of the bridge. The design will also allow for future sidewalk construction on either side of the bridge.

Appendix “2” to this administrative report shows renderings of the new bridge.

Contract Administration and Site Inspection Services

The 2019 competitive RFP process incorporated engineering design and tendering services as the primary tasks and contract administration and inspection services as provisional tasks. Ellis Engineering Inc. was competitively rated for the engineering design and tendering as well as contract administration and inspection services for the project.

The engineering design and tendering services have been completed by Ellis Engineering Inc. but the provisional contract administration and inspection services have not yet been awarded.

Based on the competitive evaluation results, Town staff recommends that Ellis Engineering Inc. be retained to provide contract administration and inspection services in the amount of \$139,837.50 (including 13% HST) for the BRIG20 assignment.

Tender Call

Tender No. ISE-21T-BRIG20 was issued in accordance with and adhered to the provisions of the Town of Fort Erie’s purchasing By-law (By-law No. 02-10). Tenders closed on Thursday, March 25th, 2021 at 2:00 p.m. local time and were publicly opened shortly thereafter. At the opening, the tender from Anthony’s Excavating Central Inc. read as the low bid.

A total of two tenders were submitted. The tenders were checked for mathematical errors. A detailed tender analysis spreadsheet, including unit prices submitted by the contractor is available for review by members of Council in the Infrastructure Services Department. Table 1 provides a summary of tenders.

The low bidder, Anthony's Excavating Central Inc., is an experienced contractor and has completed similar contracts for Fort Erie and other local area municipalities within the Niagara Region.

Table 1: Tender Summary

OTT ROAD BRIDGE (S051B) REPLACEMENT CONTRACT NO. ISE-21T-BRIG20		
Submitted Tenders		
Contractor	Tender Price (including 13% HST)	Tender Price (net of non-rebatable taxes)
Anthony's Excavating Central Inc.	\$1,422,951.26	\$1,281,411.68
Rankin Construction Inc.	\$1,525,696.62	\$1,373,937.06

*Corrected bid

The engineering consultants, Ellis Engineering Inc., reviewed the tender submissions and have recommended awarding contract #ISE-21T-BRIG20 to Anthony's Excavating Central Inc. of Wellandport, Ontario. Staff agree with this recommendation.

Financial/Staffing Implications and Accessibility (AODA) Implications

Staff has considered accessibility impacts and expect that no new barriers will be created due to the proposed works. Should the construction activities cause a temporary disruption to normal service, the public will be notified as outlined in the Accessibility Regulations for Contracted Services instruction in the contract.

A summary of project costs required to execute this project is noted below in Table 2. Project funding is shown below in Table 3.

Table 2: Project Costs

Project Component	Cost
Construction Tender	\$1,281,411.68
BRIG20 Engineering Design & Tender by Ellis Engineering Inc.	\$90,881.86*
BRIG20 Contract Administration & Inspection by Ellis Engineering Inc.	\$125,928.00
Estimated Utility Conflict Resolutions	\$12,000.00
Town Staff Project Management	\$25,700.00*
Geotechnical Investigations and Materials Testing	\$25,078.46*
Total Project Costs	\$1,561,000.00

All amounts include non-rebated HST *Includes Actual Costs to Date

Table 3: Available Funding Sources

Funding Source	Funds
Bridge & Culvert Reserve (BRIG20)	\$438,750
Federal Gas Tax Reserve (BRIG20)	\$1,126,250
Total Project Funds Available	\$1,565,000

All amounts include non-rebated HST

Table 4: Variance Projection

Project BRIG20 Variance		
Total Estimated Project Cost	Total Project Funds	Variance
\$1,561,000.00	\$1,565,000.00	\$4,000.00

All amounts include non-rebated HST

As noted in Table 4, there is a projected favourable variance for this project in the amount of \$4,000. Unused funds will be returned to the appropriate reserve following project completion.

Policies Affecting Proposal

By-law No. 124-2019 adopted Council's 2018-2022 Corporate Strategic Plan. Sustainable Infrastructure for the Future is a priority in the plan. The award and completion of this project supports the ongoing Sustainable Infrastructure Priority in addressing the Strategic Objective of "Maintaining and investing in sustainable infrastructure that serves the entire community and builds a strong, vibrant and attractive community".

The provisions of the Town of Fort Erie Purchasing Policy By-law No. 2010-002 were adhered to during the tender process for this project.

Comments from Relevant Departments/Community and Corporate Partners

All relevant departments were consulted throughout the tender process and their comments have been incorporated into this report.

Communicating Results

Information about the project has been published in the newspaper and on the Town website. This project is a Municipal Class Environmental Assessment (MCEA) Schedule A+ pre-approved project and a virtual public information centre was held September 1 to October 29, 2020.

Any residential driveway access in the vicinity of the project is expected to be maintained during the project. Where contractor operations will affect impact homeowners, a hand delivered notice to residents will be used.

Information about the project has been published in the newspaper and on the Town website. Staff will keep the general public informed of construction and detour routes prior to and at the end of construction.

Project updates will be provided on the Town's website.

Alternatives

Council has the option of not authorizing the award of this contract and postponing the bridge replacement. However, given the deteriorating structural condition of the bridge and that it is desirable to complete this bridge replacement ahead of bridge replacement work on Stevensville Road and Winger Road to minimize impacts to motorists, staff does not recommend deferring this project.

The project funds have already been approved and this project is projected to be on budget.

Conclusion

Staff recommends that Contract No. ISE-21T-BRIG20 for the Ott Road bridge (S051B) Replacement Project is awarded to Anthony's Excavating Central Inc. at the tendered amount of \$1,422,951.26 (including 13% HST) for the works itemized herein.

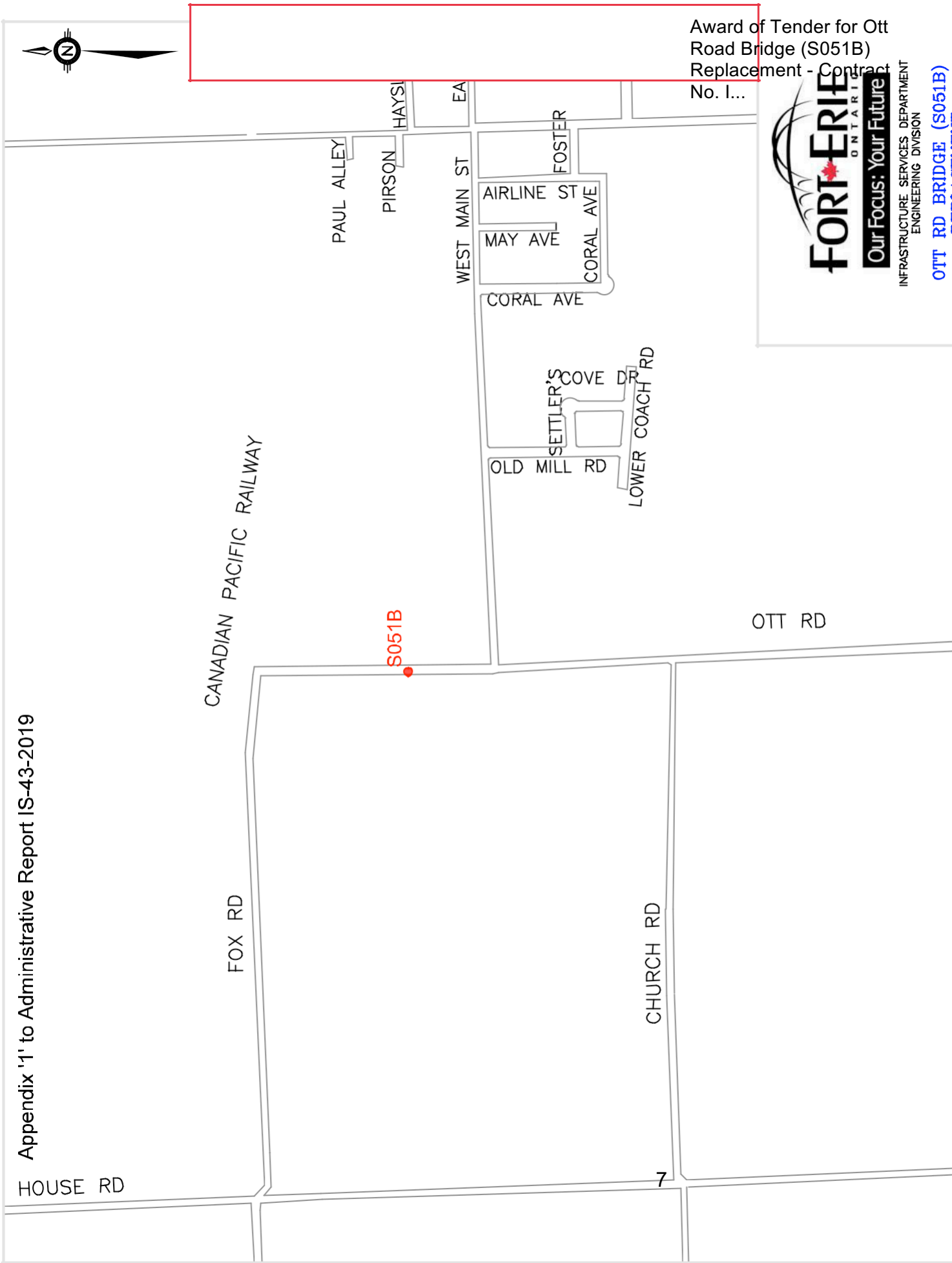
Staff also requests that Council extend the assignment for contract administration and site inspection services of this project to Ellis Engineering Inc. in the amount of \$139,837.50 (including 13% HST).

Attachments

Appendix '1' – Structure Location Map

Appendix '2' – Renderings of the New Bridge

Appendix '1' to Administrative Report IS-43-2019





Photos of similar roadway cross-sections



Rendering of Preferred Alternative 2A

PREFERRED ALTERNATIVE 2A

75 year design service life

Two 3.25m wide vehicular lanes and two 1.5m wide roadway shoulders

New waterproofing and asphalt wearing surface

New reinforced concrete slab on steel girder superstructure with integral expansion joints

New stone-pattern concrete parapet walls and approach roadside safety barriers



