




CITY OF HAMILTON
PUBLIC WORKS DEPARTMENT
Engineering Services Division

TO:	Chair and Members Public Works Committee
COMMITTEE DATE:	November 18, 2024
SUBJECT/REPORT NO:	Extension of AtkinsRéalis Canada Inc Consultancy Work – Grindstone Creek Bridge 451 for Construction Support Services and additional design work (PW24080) (Ward 15)
WARD(S) AFFECTED:	Ward 15
PREPARED BY:	Omozokpia Ajayi (905) 546-2424 Ext. 2436
SUBMITTED BY:	Jackie Kennedy Director of Engineering Services Public Works Department
SIGNATURE:	

RECOMMENDATION

- (a) Pursuant to Procurement Policy #11 – Non-competitive Procurements, that Council approve the extension to the roster assignment under Contract C12-13-21 [Category 4], for the provision of consultant services during construction and additional design work for Project ID 4031218526 - Bridge 451;
- (b) That the General Manager, Public Works be authorized to negotiate, enter into, and execute the extension and any ancillary documents required to give effect thereto with AtkinsRéalis Canada Inc, in a form satisfactory to the City Solicitor.

EXECUTIVE SUMMARY

The Grindstone Creek Bridge is located on Dundas Street East, and crosses over Grindstone Creek and the Canadian Pacific Kansas City rail line. The bridge, referred to in the city's bridge database as Bridge 451, is in need of replacement. The construction of this bridge is estimated at a cost of 14 million dollars and will be staged over two years to facilitate partial traffic flow on this important corridor.

As of October 2024, detailed design for the replacement of the bridge is at the 95% stage, and the contract is planned to be tendered this year, with construction in 2025 and 2026.

SUBJECT: Extension of AtkinsRéalis Canada Inc Consultancy Work - Grindstone Creek Bridge 451 for Construction Support Services and additional design work (PW24080) (Ward 15) - Page 2 of 4

Through the design, several unanticipated issues arose, and approval to increase the value of the purchase order is being sought to complete the design. Similarly, approval is also being sought to retain the design consultant for support throughout the construction. Their expertise will complement the City's construction management team and reduce technical and schedule risk.

HISTORICAL BACKGROUND

A Municipal Class Environmental Assessment for the Highway 5 Grindstone Creek Bridge Utility Relocation Study was completed in 2016 to determine the best alternative for the relocation of existing utilities affixed to Bridge 451. The Class Environmental Assessment recommended constructing a separate utility bridge parallel to Bridge 451 to relocate and realign the existing utilities. This preferred solution was approved by Council in October 2016. The intended approach was to design and construct the utility bridge first, and subsequently to design and construct the replacement of Bridge 451.

Detailed design of the utility bridge was commenced thereafter, however in 2020, it was determined that property acquisition would be necessary for construction which was not foreseen during the Municipal Class Environmental Assessment stage. Furthermore, the adjacent landowner was not willing to sell the required land or grant an easement. In addition to the land acquisition needs, the following constraints became apparent: mature private trees may be impacted by construction, the adjacent property was being considered for designation as a heritage property, and the need arose for a multi-use path platform to maintain pedestrian/active transportation connectivity.

In January of 2021, AtkinsRéalis Canada Inc (formerly SNC-Lavalin Inc.) was engaged in a Roster Assignment through contract C12-06-18 to perform preliminary and 60% detail design for the replacement of Bridge 451 and the new proposed parallel Utility Bridge over Canadian Pacific Kansas City rail line and Grindstone Creek. As part of this assignment the consultant was to assess the feasibility of changing the strategy to complete the utility relocations and replacement work through a single bridge. A single bridge approach was confirmed, and in June 2022, Council approved Staff Report PW 16-085 to proceed with the alternate approach, departing from the 2016 Environmental Assessment.

In July of 2022, AtkinsRéalis Canada Inc. was re-engaged via a Policy 11 Non-competitive Procurement to provide detail design and tendering services of the single bridge. The value of the Policy 11 was \$249,900.00. During the detailed design, additional scope was identified due to unanticipated site issues, utility relocation coordination, grading changes due to Canadian Pacific Kansas City rail requirements, and the addition of a new retaining wall due to embankment wash out. These additional design works amount to \$40,000.

SUBJECT: Extension of AtkinsRéalis Canada Inc Consultancy Work - Grindstone Creek Bridge 451 for Construction Support Services and additional design work (PW24080) (Ward 15) - Page 3 of 4

The project is planned for construction over two years (2025/2026), following a pending request for tender and additional support services are required from AtkinsRéalis Canada Inc. As the design engineers, their expertise to review the submissions from the successful contractor and respond to request for information, approval, and site inspection during critical construction stages. These services are estimated at \$160,000.00.

The additional scope during detail design services was unforeseen and the support services during the construction stage in 2025/2026 were not contemplated in the original roster assignment or Policy 11 with AtkinsRéalis Canada Inc. It is beneficial for the City to engage AtkinsRéalis Canada Inc. for this additional scope as they undertook the detailed design and are therefore best positioned to provide this support.

Currently, the prequalification of contractors for construction is complete. The approval of the recommended \$40,000.00 will facilitate the completion of the detail design and tender documentation for Bridge 451 replacement for tender issuance. This report recommends sole source procurement for the consultant AtkinsRéalis Canada Inc, who have completed previous design and tender services for this project that is expected to be constructed in 2025/2026.

FINANCIAL – STAFFING – LEGAL IMPLICATIONS

Financial: The current Project ID No. 4031218526 includes sufficient budget to accommodate the additional design and construction design liaison services in 2024. The approved budget in 2022 was \$10M and \$2M preapproval for 2025. However, the current project estimate is about \$14M and additional funds will be requested in 2025 capital budget to increase the project fund from \$12M to \$15M.

Staffing: N/A

Legal: N/A

POLICY IMPLICATIONS AND LEGISLATED REQUIREMENTS

This report is in accordance with Procurement Policy #11 Non-competitive Procurements.

RELEVANT CONSULTATION

The following internal parties have been consulted during the development of this report:

- Financial Planning Administration & Policy Division
- Procurement Division

ANALYSIS AND RATIONALE FOR RECOMMENDATION

The AtkinsRéalis Canada Inc consultancy extension is required to complete the bridge replacement project:

1. Consultant additional design/tender fee beyond approved policy 11 is \$40,000.00.
2. Construction support services since capacity is not available in-house is \$160,000.00.

ALTERNATIVES FOR CONSIDERATION

An alternative is for City to prepare Request for Proposals and invite consultants to submit their proposals. This approach will delay the projected construction schedule by at least a year and may require truck loading restrictions due to the deteriorating condition of the existing bridge.

Financial: N/A

Staffing: N/A

Legal: N/A

APPENDICES AND SCHEDULES ATTACHED

N/A