

|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|

|                 |   |
|-----------------|---|
| <b>TO:</b>      | <b>CHAIR AND MEMBERS<br/>CIVIC WORKS COMMITTEE<br/>MEETING ON APRIL 12, 2016</b>  |
| <b>FROM:</b>    | <b>JOHN BRAAM, P.ENG.<br/>MANAGING DIRECTOR, ENVIRONMENTAL<br/>&amp; ENGINEERING SERVICES AND CITY ENGINEER</b>   |
| <b>SUBJECT:</b> | <b>WINDERMERE ROAD OVER STONEY CREEK BRIDGE<br/>REHABILITATION<br/>CONSTRUCTION ADMINISTRATION OF TENDER NO. 16-36<br/>APPOINTMENT OF CONSULTING ENGINEER</b> |

|                       |
|-----------------------|
| <b>RECOMMENDATION</b> |
|-----------------------|

That, on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the Windermere Road over Stoney Creek Bridge Rehabilitation Project:

- (a) Dillon Consulting Ltd. **BE AUTHORIZED** to carry out the resident inspection and contract administration of the said project in the amount of \$158,658.50 (excluding H.S.T.), in accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy;
- (b) the financing for this project **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 project;
- (d) the approval given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the project; and,
- (e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

## 2015 - 19 STRATEGIC PLAN

The following report supports the Strategic Plan through the strategic focus area of *Building a Sustainable City* by addressing and managing the infrastructure gap. The project provides an important roadway network improvement that will improve mobility for cyclists, pedestrians and automobile users.

### BACKGROUND

#### Purpose

This report recommends the continuation of engineering consulting services for the construction administration phase of the Windermere Road over Stoney Creek Bridge Rehabilitation Project. The appointment of professional consulting services for the engineering services described within is required to be approved by the Municipal Council.

The Procurement of Goods and Services Policy enables the administrative award of construction contracts under \$3,000,000. The construction contract for this project is following a separate administrative process.

#### Context

The bridge carrying Windermere Road over Stoney Creek is a three span, reinforced concrete slab structure constructed in 1960 that carries two lanes of traffic across the Stoney Creek between Richmond Street North and Adelaide Street North. It is approximately 32 m long and 12 m wide. Records show that only minor repair works have been completed on this structure over the last 50+ years. A major rehabilitation is now required for this structure to achieve a full life span.

### DISCUSSION

#### Background

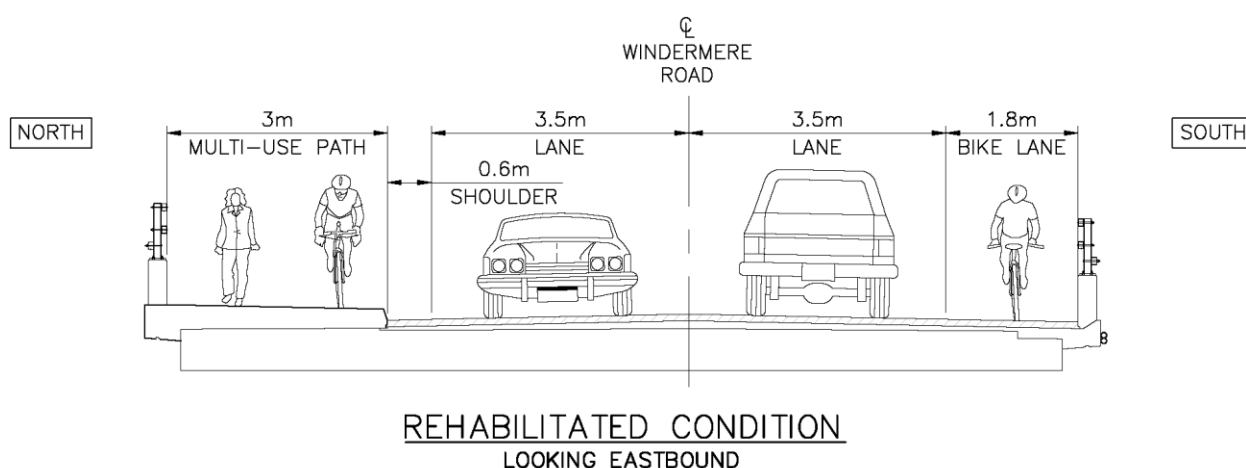
In 2015, Dillon Consulting Ltd. was selected from three consulting firms who were invited to submit competitive proposals for this bridge rehabilitation project in accordance with Section 15.2 (d) of the Procurement of Goods and Services Policy. Based on the evaluation criteria and selection process, the evaluation committee concluded the proposal from Dillon Consulting Ltd. provided the best value to the City. Civic Administration appointed Dillon Consulting Ltd. as the consulting engineer for the detailed design and tendering of the project.

| Agenda Item # | Page # |
|---------------|--------|
|               |        |

The detailed design phase has been completed. The proposed work on the bridge will include:

- concrete repairs
- removal of bridge expansion joints
- installation of new railings appropriate for cycle safety heights
- installation of guiderails for roadside safety at all four corners; and
- widening of the bridge platform as much as possible to accommodate future bicycle lanes and a multi-use path on the north side.

The final configuration of the structure is pictured below.



The construction contract presents an opportunity to provide active transportation improvements. The project will widen the structure as much as possible on the existing abutments to create space for vulnerable road users. The multi-use path on the north side of the structure is proposed as part of a better long-term linkage between the two existing open-space multi-use paths that extend north from Windermere Road on both sides of the creek crossing.

### Traffic Staging

This bridge is currently two lanes wide with a narrow sidewalk along the north side. Due to the planned scope of work, and the narrowness of the working area, Windermere Road will be closed to eastbound traffic for the duration of the construction until mid-November. Westbound vehicular traffic and two-way pedestrian access will be maintained across the bridge. A signed detour route will be in place following Richmond Street, Fanshawe Park Road East and Adelaide Street North.

During the detailed design process, several staging options were reviewed including the full closure of the road and an alternating one lane of traffic. Alternating traffic operations would create significant delays. Discussions with representatives of EMS and LTC staff support the proposed plan. Maintaining westbound traffic access to the primary destinations in the area of the University Hospital and Western University was deemed most critical. Expediting these specialized service trips to the hospital and school were prioritized over the corresponding return trip.

| Agenda Item # | Page # |
|---------------|--------|
|               |        |

Notification letters of the upcoming work and eastbound closure were mailed out to area residents on March 3, 2016. In addition, two portable message boards were installed on Windermere Road on Monday March 7, to advise motorists of the upcoming work and direct them to the City's web site for more information ([www.london.ca/bridge](http://www.london.ca/bridge)). These message boards remained in place until March 31<sup>st</sup>.

### **Consulting Services**

Due to the consultant's knowledge and experience with this project, Dillon Consulting Ltd. was requested to submit a proposal to carry out the contract administration and resident supervision for the construction phase of this project.

In accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy, Civic Administration is recommending that Dillon Consulting Ltd. be authorized to carry out engineering services related to construction administration of Windermere Road Bridge over Stoney Creek Rehabilitation Project for a fee estimate of \$158,658.50 (excluding H.S.T.).

The continued use of Dillon Consulting Ltd. on this project for these additional services is of financial advantage to the City due to the fact that the firm has specific knowledge of the project and has undertaken work for which duplication would be required if another firm were to be selected. The City's construction administration requirement for the creation of record drawings following construction necessitates the reviewing engineer seal them on the basis of field verification and ongoing involvement. Consequently, the continued use of Dillon Consulting Ltd. who created and sealed the design drawings is required to not violate the City practice of Professional Engineers sealing record drawings. The approval of this work will bring the value of the overall consulting assignment to \$257,944.50 (excluding H.S.T.).

|                   |
|-------------------|
| <b>CONCLUSION</b> |
|-------------------|

Dillon Consulting Ltd. has demonstrated an understanding of the City requirements for this project and it is recommended that this firm continue as the consulting engineer for the purpose of 2016 contract administration as it is in the best financial and technical interests of the City.

There are no anticipated additional annual operating costs to the Environmental and Engineering Services Department associated with the approval of this consulting assignment.

Agenda Item #

Page #

|  |
|--|
|  |
|--|

|  |
|--|
|  |
|--|

### Acknowledgements

This report was prepared with assistance from Jane Fullick, C.E.T., Technologist II, Karl Grabowski, P. Eng., Transportation Design Engineer, both of the Transportation Planning and Design Division.

|   |  |
|---|--|
| <b>PREPARED BY:</b>   | <b>REVIEWED AND CONCURRED BY:</b>                                      |
| <br><br><br><br>  | <br><br><br><br>   |
| <b>DOUG MACRAE, P.ENG<br/>DIVISION MANAGER,<br/>TRANSPORTATION PLANNING &amp;<br/>DESIGN</b>                        | <b>EDWARD SOLDI, P.ENG.<br/>DIRECTOR, ROADS AND<br/>TRANSPORTATION</b> |
| <b>RECOMMENDED BY:</b>  |  |
| <br><br><br><br>  |  |
| <b>JOHN BRAAM, P.ENG.<br/>MANAGING DIRECTOR,<br/>ENVIRONMENTAL &amp; ENGINEERING<br/>SERVICES AND CITY ENGINEER</b> |  |

KG/jef

Attach: Appendix A – Source of Financing

cc. B. Schmidt, Dillon Consulting Ltd., 130 Dufferin Avenue, Suite 1400,  
P.O. Box 426, London ON N6A 5R2