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| TO: | CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JULY 17, 2017 |
| FROM: | KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER |
| SUBJECT: | SUNNINGDALE ROAD IMPROVEMENTS DETAILED DESIGN & TENDERING APPOINTMENT OF CONSULTING ENGINEER |

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| RECOMMENDATION |
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That on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the appointment of a Consulting Engineer for the Sunningdale Road Project:

- (a) AECOM Canada Ltd. **BE APPOINTED** Consulting Engineers for the detailed design and tendering for the project at an upset amount of \$767,745 (excluding H.S.T.) in accordance with Section 15.2 (e) 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 approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract with the consultant for the work; and,
- (e) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents including Esso Imperial Oil and Hydro One Network Inc. related agreements, if required, to give effect to these recommendations.

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| PREVIOUS REPORTS PERTINENT TO THIS MATTER |
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- Built and Natural Environment Committee – Oct 17, 2011, Sunningdale Road – Interim Maintenance Strategy
- Civic Works Committee – May 29, 2012 – Sunningdale Road Improvements Environmental Study Report Project Number: TS1496
- Civic Works Committee – March 24, 2014 – Contract Award: Tender No. T14-53 2014 Sunningdale Road and Wonderland Road North Roundabout Implementation

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| 2015-19 STRATEGIC PLAN |
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The following report supports the Strategic Plan through the strategic focus area of Building a Sustainable City by building new transportation infrastructure as London grows. Creating this transportation corridor for all road users will contribute to providing convenient and connected mobility choices.

In support of the high level of growth in London's north, the Sunningdale Road Improvements Project will create a pedestrian-oriented environment that is supportive of residential and mixed-use development, while increasing vehicular and cycling capacity.

BACKGROUND

Purpose

This report recommends the appointment of a consulting engineer to complete the detailed design and tendering for Sunningdale Road from Wonderland Road North to Bluebell Road.

Context

The City of London is responsible for a transportation system that promotes the movement of goods and services to strengthen our economic growth and provides for sustainable transportation mobility choices for residents that improve our quality of life.

In 2012, an environmental assessment was completed to identify a preferred design for the Sunningdale Road corridor from Wonderland Road to Adelaide Street. The study also reviewed opportunities to complete the construction in several stages and to coordinate servicing opportunities for undeveloped lands. A map showing the section of Sunningdale Road within the current project limits is presented below in Figure 1:

Figure 1: Design Assignment Limits
Wonderland Road North to Bluebell Road



The proposed ultimate design for Sunningdale Road will bring about a significant change to multi-modal movement and land use along the Sunningdale Road corridor, with improvements in safety, capacity, drainage, access management and aesthetic enhancements.

DISCUSSION

Project Description

The Sunningdale Road Improvements project was identified as a priority in London's 2030 Smart Moves Transportation Master Plan (TMP) and the 2014 Development Charges (DC) Background Study. A Class "C" Municipal Class Environmental Assessment was completed by AECOM in March of 2012.

The DC Study recommended that Sunningdale Road from Wonderland Road North to Richmond Street, including the Wonderland and Richmond intersection be started in 2020. Sunningdale Road from Richmond Street to Bluebell Road is to be commenced

in 2022. This would be followed by the construction of Sunningdale Road from Bluebell Road to Adelaide Street in 2025. This assignment involves the preparation of at least two construction contracts for the 2020 and 2022 phases. Grouping multiple phases into one design assignment achieves efficiencies and also enables better coordination with Esso Imperial Oil whose infrastructure is impacted in multiple phases.

Underground Infrastructure

Multiple large diameter watermains that supply water to the City from Lake Huron are present in the Sunningdale Road right-of-way. In addition, a large sanitary sewer emerges from the Medway Creek Valley and enters the Sunningdale Road right-of-way east of the existing structure exiting near Meadowlands Way. Minimum separation distances and protection and support of the existing trunk and distribution watermains will be important considerations during detail design and construction.

An existing Esso Imperial Oil pipeline exists from approximately 200 m west of Meadowlands Way to the eastern project limit. Sections of the existing pipeline will need to be relocated or protected by utilizing a variety of methods such as minimum cover, concrete distribution slabs and steel casings. Significant lead time is needed to ensure that the appropriate agreements between the City of London and Esso Imperial Oil are in place prior to construction. Consultation with Esso Imperial Oil will commence immediately to confirm protection or relocation requirements.

New Medway Creek Bridge Crossing

The existing Medway Creek Culvert is a three span concrete rigid frame structure. A new bridge is required to improve the road profile and accommodate the new road features. The new structure will also provide an opportunity to accommodate a multi-use path connection beneath the bridge.

Property Acquisition

The Environmental Assessment identified land requirements along the Sunningdale Road corridor. Acquisition will be by way of development land dedication or purchase/expropriation. A project of this nature will also have local impacts on existing adjacent properties along the entire corridor varying from grading easements, retaining walls and entrance relocations. The design assignment will support this process and consultations on a site-by-site basis to help mitigate issues and minimize disturbance by communicating with property owners early in the project.

Design Considerations

The Environmental Study Report recommended a widening of Sunningdale Road from two lanes to four. The recommended design alternative consists of two westbound and two eastbound through lanes with auxiliary turn lanes at intersections where warranted. The recommended design alternative includes:

- Richmond Street intersection improvements;
- Sidewalks and cycling facilities;
- A variable centreline median which may allow for urban design opportunities in selected areas;
- Improvements to intersection configurations and signal timing/interconnection;
- A single span concrete structure at the Medway Creek crossing, including a pathway beneath to enable future connections for the pathway system;

The primary deliverables for this complex detailed design assignment include design, approvals, contract preparation and consultation and stakeholder liaison. Particular focus areas for the assignment include:

- Required field investigations such as geotechnical;
- Obtaining approval from associated agencies such as UTRCA, DFO, MOECC, MTCS;
- Detailed development of place making elements such as lighting and street furnishings;
- Co-ordination with the utility companies (Esso Imperial Oil, Hydro One, London Hydro, Union Gas, Bell Canada, Rogers, etc.);
- Consultation with the public, businesses and other stakeholders;
- Coordination and design of service needs, including renewal of existing and new infrastructure as needed;
- Preparation of construction staging and traffic staging plans;
- Preparation of the complete tender package, including advertisement, review of the submitted tenders for completeness and contractor recommendation.

Consultant Selection

AECOM Canada Ltd. was selected to undertake the detailed design and tendering after a competitive consultant procurement process in accordance with the Procurement of Goods and Services Policy Section 15.2 (e) in which four firms were shortlisted to submit detailed proposals following an open advertised request for qualifications.

Based on the evaluation criteria and selection process identified in the Request for Proposals, the evaluation committee concluded that the proposal from AECOM provides the best value to the City. AECOM's past proven experience on similar projects of this nature combined with a project proposal that demonstrated a thorough understanding of the goals and objectives demonstrated their suitability for the undertaking. AECOM is familiar with City staff and procedures through recent work on similar projects.

Subject to successful completion of the design phase of this project, AECOM will be considered for the construction administration stage. Future approval to proceed with subsequent phases of engineering services for this project will be subject to satisfying all financial, reporting and other conditions contained within the Procurement of Goods and Services Policy.

There are no anticipated additional operating costs in the Environmental and Engineering Services budget with approval of this engineering assignment. As the design progresses, future operational costs for the roadway, sewers and watermain will be identified.

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| CONCLUSION |
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Based on the technical evaluation of the proposals, it is recommended AECOM be awarded the consulting assignment for the detailed design and tendering of the Sunningdale Road Improvements from Wonderland Road North to Bluebell Road, in the amount of \$767,745 (excluding HST). AECOM has shown a good understanding of the project and has the technical expertise to complete the assignment. The proposal represents good value for the City. With construction scheduled to begin in 2020, it is necessary to commence the design and approvals phase of this project. Award of this consultant assignment will progress this project within the approved project budget.

Acknowledgements

This report was prepared with assistance from Ted Koza P.Eng., Transportation Design Engineer and Jordyn Kent, Engineering Intern, in the Transportation Planning & Design Division.

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| PREPARED BY: | REVIEWED AND CONCURRED BY: |
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| DOUG MACRAE, P. ENG. DIVISION MANAGER TRANSPORTATION PLANNING & DESIGN | EDWARD SOLDI, P. ENG. DIRECTOR, ROADS AND TRANSPORTATION |
| RECOMMENDED BY: | |
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| KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER | |

Attach: Appendix A – Sources of Financing

cc: Geoff Smith, CSCMP, Purchasing and Supply
Peter McAllister, P.Eng., AECOM Canada LTD.