

Report to Civic Works Committee

To: Chair and Members
Civic Works Committee

From: Kelly Scherr, P. Eng, MBA, FEC
Deputy City Manager, Environment and Infrastructure

Subject: Contract Award: Tender RFT 21-63
Hyde Park Road and Sunningdale Road West Roundabout

Date: June 1, 2021

Recommendation

That on the recommendation of the Deputy City Manager, Environment and Infrastructure, the following actions **BE TAKEN** with respect to the Hyde Park Road and Sunningdale Road West Roundabout project:

- The bid submitted by J-AAR Excavating Limited, at its tendered price of \$3,681,287.80, excluding HST, **BE ACCEPTED**; it being noted that the bid submitted by J-AAR Excavating Limited was the lowest of three bids received and meets the City's specifications and requirements in all areas;
- That MTE Consultants Inc. **BE AUTHORIZED** to complete the contract administration and construction supervision in accordance with the estimate, on file, at an upset amount of \$184,475.00, excluding HST, and in accordance with Section 15.2 (g) of the City of London's Procurement of Goods and Services Policy;
- The financing for the project **BE APPROVED** in accordance with the "Sources of Financing Report" attached hereto as Appendix A;
- The Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;
- The approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract for the material to be supplied and the work to be done relating to this project (RFT 21-63); and,
- The Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

Executive Summary

Purpose

This report recommends award of a construction tender RFT21-63 for the Hyde Park Road and Sunningdale Road Roundabout to J-AAR Excavating Limited. It also recommends that the existing contract with MTE Consultants Inc. be extended to include contract administration and construction supervision of the project.

The Hyde Park Road and Sunningdale Road Roundabout was identified as a priority project in the Smart Moves 2030 Transportation Master Plan (TMP). Growth in northwest London has resulted in a significant increase in traffic and safety concerns at the Hyde Park Road and Sunningdale Road intersection. This project will enhance the function of the intersection by improving traffic capacity and increasing the level of safety.

Linkage to the Corporate Strategic Plan

The following report supports the Strategic Plan through the focus area of Building a Sustainable City by building new transportation, water and sewer infrastructure to meet the long term needs of our community. Improvements to this intersection will contribute to providing convenient and connected mobility choices as the area grows.

Analysis

1.0 Background Information

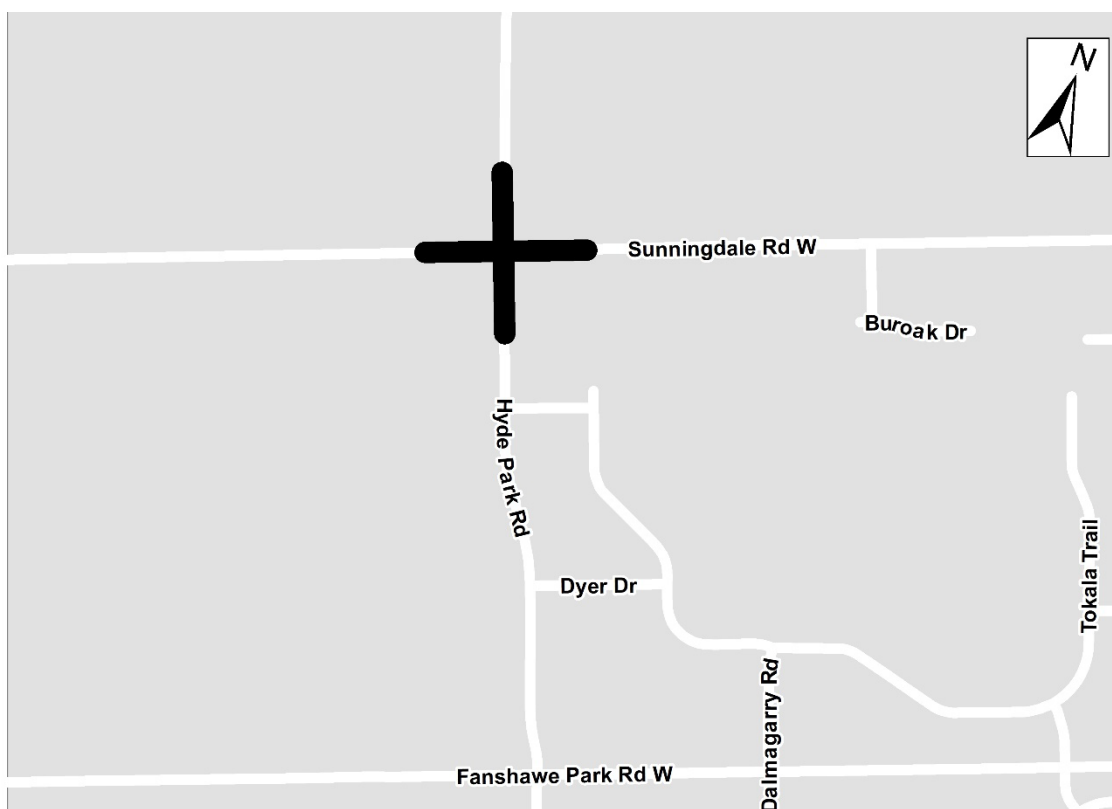
1.1 Previous Reports Related to this Matter

- Civic Works Committee – December 19, 2011 – Hyde Park Road Environmental Study Report, Notice of Completion
- Civic Works Committee – June 19, 2012 – London 2030 Transportation Master Plan
- Civic Works Committee – June 19, 2018 – Hyde Park Road / Sunningdale Road West Roundabout Detailed Design, Appointment Of Consulting Engineer
- Strategic Priorities and Policy Committee – May 6, 2019 – Approval of 2019 Development Charges By-Law and DC Background Study

2.0 Discussion and Considerations

2.1 Project Description

Hyde Park Road and Sunningdale Road West are both Civic Boulevards and their intersection represents a vital link in the City of London's transportation network. The roundabout construction is anticipated to commence in the summer of 2021, with the expectation of completion by the end of the 2021 construction season. A map showing the project location is below.



2.2 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. Building new transportation infrastructure as London grows is part of Council's Strategic Plan.

The Hyde Park Road Improvements Environmental Study Report (ESR) was completed in 2011. It identified a preferred recommended design for the Hyde Park Road corridor which included phased corridor improvements that include intersection improvements incorporating a roundabout design for Hyde Park Road and Sunningdale Road West.

The recommended roundabout implementation will improve traffic operational efficiency and provide for minimal reconstruction for future improvements to the Hyde Park Road and Sunningdale Road West corridors by converting the two-way, stop-controlled intersection to a multi-lane roundabout.

The roundabout implementation includes the installation of storm sewers for future development growth. The project also includes roadway illumination, sidewalks, and bike lanes. Cathodic protection to the existing watermain is also planned for this project. Utilities such as London Hydro and Bell will be relocated and upgraded prior to this project commencing.

The roundabout will increase accessibility with the addition of separated bike lanes and sidewalks. AODA upgrades such as tactile sidewalk plates will be included on all crossings.

2.2.1 Intersection Improvements

The improvements for this intersection include:

- Creating a roundabout intersection to improve the safety for all road users.
- Widening of the roadway approaches for the roundabout to four lanes (two lanes in each direction) to accommodate the existing and future travel demands;
- Sidewalks and street lighting along all four quadrants of the intersection to improve safety and accessibility for pedestrians and to connect into broader networks as development proceeds;
- In boulevard bicycle lanes to better accommodate cyclists of all ages and abilities;
- Upgrades to underground infrastructure including storm sewer installations and LIDs for quality control; and
- Landscaping in the central island and in the boulevards where space is available.

2.2.2 Preferred Design

When compared to a traditional intersection, a roundabout was chosen as the preferred design at this location for the following reasons:

- Safety, as a roundabout promotes lower speeds and fewer points of conflict between vehicles. This reduces the potential for high-severity collisions. This roundabout design and context is very similar to the roundabout at Wonderland Road North and Sunningdale Road which created a measureable safety improvement at that intersection.

- Less idling and air pollution, as fewer delays reduces fuel consumption and improves air quality by reducing emissions, which will help the City meet its 2019-2023 Strategic Plan for specific strategies and actions that support climate change mitigation and adaptation.
- Lower maintenance costs, as roundabouts reduce maintenance and electricity costs associated with traffic signals.
- Aesthetics, as there is an opportunity for landscaping within the central island of a roundabout.

2.2.3 Other aspects

Other aspects of the project include:

Utility Relocations: The project necessitated utility relocations involving London Hydro and Bell Canada. Utility relocations are underway at the intersection and are expected to be complete before construction starts.

Tree Removal and Trimming: Tree removal and trimming as required was undertaken prior to construction. These removals were completed in conjunction with the London Hydro and Bell Canada relocations.

Traffic Management: The connection between the east and south legs of the intersection is an important and well used turning movement, and thus construction is planned to allow this movement to remain operational during this project, with intermittent delays that are typical of construction projects of this nature.

A closure of Hyde Park Road north of Sunningdale Road, and Sunningdale Road west of Hyde Park Road will be required. The duration of the closure is expected to last for most of the construction. Communication has occurred with both the County of Middlesex and Middlesex Centre for detour signage to advise regional commuters of this closure.

To allow for final asphalt and line markings to occur, a weekend closure for the entire intersection is scheduled for later in 2021. By closing this intersection, echelon paving can be used, which will help to prolong pavement life. Signage and ample advanced notice will be provided prior to this closure.

3.0 Financial Impact/Considerations

3.1 Tender Summary

Tenders for the Hyde Park Road / Sunningdale Road West Roundabout project (RFT 21-63) were opened on May 3, 2021. Three contractors submitted their prices as listed below, excluding HST:

Tender Rank	Contractor	Tender Price Submitted
1.	J-AAR Excavating Limited	\$3,681,287.80
2.	L82 Construction Ltd	\$4,216,304.41
3.	Bre-Ex Construction Inc	\$4,349,111.81

All tenders have been checked by MTE Consultants Inc. and the Environment and Infrastructure Department and include a \$350,000 contingency amount. No mathematical errors were found. The result of the tendering process indicated a competitive process. The engineering estimate for this project was \$4,068,480, excluding HST. The submitted bid by J-AAR Excavating Limited is in line with the tender estimate that was prepared prior to the tender opening.

3.2 Consulting Services

MTE Consultants Inc. was awarded the detailed design of the Hyde Park Road / Sunningdale Road West Roundabout project on June 19, 2018 after a competitive process. Due to the consultant's knowledge and positive performance on the detailed design, the consultant was invited to submit a proposal to carry out the contract administration and construction supervision of the project. Staff have reviewed the fee submission, including the time allocated to each project task, along with hourly rates provided by each of the consultant's staff members. That review of assigned personnel, time per project task, and hourly rates were consistent with other infrastructure assignments of similar scope.

The continued use of MTE Consultants Inc. on this project for construction administration is of financial advantage to the City because 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 requires the reviewing professional engineer to seal the drawings based on field verification and ongoing involvement. This requirement promotes consultant accountability for the design. Consequently, the continued use of the consultant who created and sealed the design drawings is required in order maintain this accountability process and to manage risk.

In accordance with Section 15.2(g) of the Procurement of Goods and Services Policy, Civic Administration is recommending that MTE Consultants Inc. be authorized to carry out the contract administration for the Hyde Park Road / Sunningdale Road West Roundabout project for a fee estimate of \$184,475.00 excluding HST. The approval of this work will bring the value of the overall consulting assignment to \$485,534.56, excluding HST.

4.0 Financial Impact/Considerations

Anticipated annual operating costs associated with the additional infrastructure is summarized below:

Service Area	Rationale	Increase in Annual Operating Costs
Road Operations	Additional sidewalk and cycling lanes; additional pavement markings	\$10,624
Forestry Operations	Additional trees	\$192
Parks Operations	Additional vegetation	\$37,500
Sewer Operations	Additional sewers & Low Impact Development structures (LIDs)	\$1,650
Water Operations	Water chamber improvements	\$600
Street Lighting	Additional street lighting	\$5,267

Conclusion

The Hyde Park Road / Sunningdale Road West Roundabout project is identified in the Transportation Master Plan and other transportation planning documents. The project will create network efficiencies, improve safety, accommodate future growth and development and improve active transportation and safety through establishing sidewalks and boulevard bike lanes. Staff recommend that the construction contract for the Hyde Park Road / Sunningdale Road West Roundabout project be awarded to J-AAR Excavating Limited in the amount of \$3,681,287.80, excluding HST. Upon Council approval and contract award, staff will confirm a schedule with the contractor and initiate a communication program.

It is also recommended that in accordance with Section 15.2 (g) of the City of London's Procurement of Goods and Services Policy, MTE Consultants Inc. be authorized to carry out the construction administration and coordination to complete this project for a fee estimate of \$184,475.00, excluding HST.

Prepared by: Garfield Dales, P. Eng., Division Manager,
Transportation Planning & Design

Submitted by: Doug MacRae, P. Eng., Director, Transportation and
Mobility

Recommended by: Kelly Scherr, P. Eng., MBA, FEC, Deputy City Manager,
Environment and Infrastructure

Attach: Appendix A: Source of Financing

cc: John Freeman, Manager, Purchasing and Supply
J-AAR Excavating Limited
MTE Consultants Inc

Appendix "A"

#21083

June 1, 2021

(Award Consultant)

Chair and Members
Civic Works Committee

RE: RFT21-63 Hyde Park Road and Sunningdale Road West Roundabout

(Subledger RD180012)

Capital Project TS1335 - Intersection - Sunningdale - Hyde Park

Capital Project TS1656 - Minor Rd Works - Roundabouts

Capital Project TS126419 - Rural Intersections

Capital Project EW3708 - Trunk Watermain Valve Chambers

Capital Project EW3525 - Cathodic Protection Program

J-AAR Excavating Limited - 3,681,287.80 (excluding HST)

MTE Consultants Inc. - \$184,475.00 (excluding HST)

Finance Supports Report on the Sources of Financing:

Finance Supports confirms that the cost of this project can be accommodated within the financing available for it in the Capital Budget and that, subject to the approval of the Deputy City Manager, Environment and Infrastructure, the detailed source of financing is:

Estimated Expenditures	Approved Budget	Committed To This Date	This Submission	Balance for Future Work
TS1335 - Intersection - Sunningdale - Hyde Park				
Consulting	101,993	2,602	99,391	0
Land Acquisition	580,595	580,595	0	0
Construction	3,187,455	0	3,187,455	0
Utilities	167,379	167,379	0	0
City Related Expenses	78	78	0	0
TS1335 Total	4,037,500	750,654	3,286,846	0
TS1656 - Minor Rd Works - Roundabouts				
Consulting	402,442	321,158	81,284	0
Construction	47,558	1,692	0	45,866
TS1656 Total	450,000	322,850	81,284	45,866
TS126419 - Rural Intersections				
Construction	628,790	0	418,012	210,778
EW3708 - Trunk Watermain Valve Chambers				
Consulting	179,474	75,404	1,187	102,883
Construction	849,999	420,324	23,671	406,004
City Related Expenses	290,527	290,358	0	169
EW3708 Total	1,320,000	786,086	24,858	509,056
EW3525 - Cathodic Protection Program				
Consulting	1,174,420	341,363	5,861	827,196
Construction	3,000,580	2,883,640	116,940	0
EW3525 Total	4,175,000	3,225,003	122,801	827,196
Total Expenditures	\$10,611,290	\$5,084,593	\$3,933,801	\$1,592,896

Appendix "A"

#21083

June 1, 2021

(Award Consultant)

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Capital Project TS1335 - Intersection - Sunningdale - Hyde Park

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Capital Project EW3708 - Trunk Watermain Valve Chambers

Capital Project EW3525 - Cathodic Protection Program

J-AAR Excavating Limited - 3,681,287.80 (excluding HST)

MTE Consultants Inc. - \$184,475.00 (excluding HST)

Sources of Financing	Approved Budget	Committed To This Date	This Submission	Balance for Future Work
TS1335 - Intersection - Sunningdale - Hyde Park				
Debenture No. W.-5658-89 (Note 1)	504,688	93,832	410,856	0
Drawdown from City Services-Roads Reserve Fund (Development Charges) (Note 3)	3,532,812	656,822	2,875,990	0
TS1335 Total	4,037,500	750,654	3,286,846	0
TS1656 - Minor Rd Works - Roundabouts				
Drawdown from City Services-Roads Reserve Fund (Development Charges) (Note 3)	450,000	322,850	81,284	45,866
TS126419 - Rural Intersections				
Drawdown from City Services-Roads Reserve Fund (Development Charges) (Note 3)	628,790	0	418,012	210,778
EW3708 - Trunk Watermain Valve Chambers				
Capital Water Rates	1,320,000	786,086	24,858	509,056
EW3525 - Cathodic Protection Program				
Capital Water Rates	3,950,000	3,225,003	122,801	602,196
Drawdown from Water Works Renewal Reserve Fund	225,000	0	0	225,000
EW3525 Total	4,175,000	3,225,003	122,801	827,196
Total Financing	\$10,611,290	\$5,084,593	\$3,933,801	\$1,592,896
Financial Note - MTE Consultants:				
	TS1335	TS1656	EW3708	EW3525
Contract Price	\$97,672	\$79,878	\$1,166	\$5,759
Add: HST @13%	12,697	10,384	152	749
Total Contract Price Including Taxes	110,369	90,262	1,318	6,508
Less: HST Rebate	-10,978	-8,978	-131	-647
Net Contract Price	\$99,391	\$81,284	\$1,187	\$5,861
Financial Note - MTE Consultants Continued:				
	Total			
Contract Price	\$184,475			
Add: HST @13%	23,982			
Total Contract Price Including Taxes	208,457			
Less: HST Rebate	-20,734			
Net Contract Price	\$187,723			

Appendix "A"

#21083

June 1, 2021

(Award Consultant)

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Capital Project TS1335 - Intersection - Sunningdale - Hyde Park

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Capital Project EW3708 - Trunk Watermain Valve Chambers

Capital Project EW3525 - Cathodic Protection Program

J-AAR Excavating Limited - 3,681,287.80 (excluding HST)

MTE Consultants Inc. - \$184,475.00 (excluding HST)

Financial Note - J-AAR:	TS1335	TS126419	EW3708	EW3525
Contract Price	\$3,132,326	\$410,782	\$23,262	\$114,918
Add: HST @13%	407,202	53,402	3,024	14,939
Total Contract Price Including Taxes	3,539,528	464,184	26,286	129,857
Less: HST Rebate	-352,073	-46,172	-2,615	-12,917
Net Contract Price	\$3,187,455	\$418,012	\$23,671	\$116,940

Financial Note - J-AAR Continued:	Total
Contract Price	\$3,681,288
Add: HST @13%	478,567
Total Contract Price Including Taxes	4,159,855
Less: HST Rebate	-413,777
Net Contract Price	\$3,746,078
Total	\$3,933,801

Note 1: Note to City Clerk: The City Clerk be authorized to increase Debenture By-law No. W.-5658-89 by \$459,823 from \$44,865 to \$504,688.

Note 2: Development charges have been utilized in accordance with the underlying legislation and the approved 2019 Development Charges Background Study and 2021 Development Charges Background Study Update.

Note 3: There will be additional annual operating impacts associated with this award as follows: Road Operations - \$10,624, Forestry Operations - \$192, Parks Operations - \$37,500, Sewer Operations - \$1,650, Water Operations - \$600, Street Lighting - \$5,267

Jason Davies
Manager of Financial Planning & Policy

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