TO: 
CHAIR AND MEMBERS 
CIVIC WORKS COMMITTEE 
MEETING ON OCTOBER 6, 2015 

FROM: 
JOHN BRAAM, P.ENG. 
MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER 

SUBJECT: 
WONDERLAND ROAD SOUTH TWO-LANE UPGRADE 
HIGHWAY 401 TO HIGHWAY 402 
APPOINTMENT OF CONSULTING ENGINEER 

RECOMMENDATION 

That, on the recommendation of the Managing Director, Environmental & Engineering Services and City Engineer, the following actions BE TAKEN with respect to the Wonderland Road South two-lane upgrade from Highway 401 to Highway 402: 

(a) MMM Group Limited, BE APPOINTED Consulting Engineers for the detailed design and tendering of the project, in the amount of $626,823 (excluding HST), in accordance with Section 15.2 (g) of the City of London’s Procurement of Goods and Services Policy; 

(b) the financing for this project BE APPROVED in accordance with 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, if required, to give effect to these recommendations. 

PREVIOUS REPORTS PERTINENT TO THIS MATTER 


- Civic Works Committee – July 20, 2015 - Wonderland Road South Environmental Assessment Study.
Purpose

This report seeks the approval of the Municipal Council to appoint an engineering consultant to proceed with the provision of engineering services for the detailed design and contract preparation for the Wonderland Road South two-lane upgrade from Highway 401 to Highway 402 as displayed in Figure 1. Traffic on this road is anticipated to grow with the opening of the Highway 401/Wonderland Road interchange in Fall 2015. Improvements to Wonderland Road South will help fulfill the Strategic Plan Area of Focus of Building a Sustainable City by providing convenient and connected mobility choices.

Figure 1: Wonderland Road South Upgrade Project Limits

Context

Wonderland Road South is a major transportation corridor designed to carry high volumes of traffic in a safe and efficient manner. To that end, the transportation services of the Wonderland Road South corridor will need to provide for both longer-distance mobility to serve business, and local accessibility, to serve the surrounding community in their day to day activities and in a variety of modes.

An Environmental Study Report (ESR), the result of a comprehensive environmental Assessment (EA) for the Wonderland Road South Corridor from Southdale Road West to Highway 401, was completed in July 2015. The ESR identified the transportation
infrastructure needs for the Wonderland Road South corridor as recommended in the London 2030 Smart Moves Transportation Master Plan. Initiation of this design assignment begins the first phase of improvements recommended in the ESR.

DISCUSSION

Background

The completion of the Wonderland Road South Interchange with Highway 401 is one of key objectives of London's Economic Strategy in establishing the City as the trade and transportation hub of Southwestern Ontario. The improvements along Wonderland Road South, in conjunction with the interchange, will enable residential and commercial growth in the Southwest Area Plan (SWAP) area.

The Wonderland Road South EA process involved the development and review of alternative design concepts. A key outcome of the study were road cross-section concepts for the recommended planning solution.

Road cross-section concepts were developed for Wonderland Road South for two distinct segments of the study area; Southdale Road W to Highway 402; and Highway 402 to Highway 401. The road cross-sections developed between Highways 401 and 402 reflect the transportation needs identified for this segment of the corridor considering that it lies outside of the urban growth boundary and accommodates lower traffic volumes.

The proposed two-lane upgrades between Highway 402 and Highway 401 are comprised of a rural cross-section which incorporates increased travel lane and shoulder widths for improved safety and operations. This improved 2-lane cross-section will include turning lanes where necessary and will improve the road widths which are currently narrow at culvert crossings. Road alignment adjustments are also proposed to avoid constraints such as environmental features and Hydro One corridor infrastructure.

The construction of the two-lane improvements will be coordinated with and facilitate an ultimate four-lane rural widening in the future when warranted by traffic volumes.

Project Description

This is a large complex project involving numerous property acquisitions, utility relocations and approvals. The estimated value of construction and utility relocations is in the order of $9 Million. The primary deliverables from this detailed design assignment include field investigations, design, approvals, contract preparation, property acquisition support, and traffic assessment. Particular focus areas for the assignment include:

- Traffic staging and construction access
- Provision for all road users, including bicycles, truck traffic, farm equipment, etc.
- Intersection illumination at existing intersections
- Coordination for existing and future utilities within corridor
- Integration of landscaping / restoration
- Stormwater management and drainage design for watercourse crossings and municipal drain realignments
- Fisheries protection as required based on final design and the Department of Fisheries and Oceans (DFO) Self-Assessment Process
- Vegetation preservation and restoration
- Sediment and erosion control
- Ensuring continued fish passage at municipal drain / watercourse crossings
- Identify and mitigate for species at risk
- Maintain access to residents and farms including all field accesses
- Confirm traffic signal warrant analyses after the opening of the Highway 401 Interchange at Wonderland Road South.

**Schedule and Financing**

Construction of this project is scheduled for 2017 as identified in the Development Charges Background Study. The need to start the detailed design immediately after completion of the Wonderland Road South EA has been deemed important in order to meet the 2017 construction target. The new Highway 401 & Wonderland Road South interchange is expected to be complete and open in late 2015. The potential increase in traffic increases the need to expedite the process to complete the required road improvements.

The ESR public review period expired on September 23, 2015. At the time of CWC report submission, one potential request for a Part II Order was known to the City. The nature of the request is for a broader approach to Wonderland Road improvements beyond the EA study area and across municipal borders. The award of this design assignment is not subject to EA approval. Given that the potential Part II Order request is not specifically applicable to the ESR design recommendations for this project and it is anticipated that any Part II Order will be addressed before project implementation, staff recommends that the design of the project proceed. If a Part II Order is received and not dismissed by MOECC in a timely manner, it could delay utility relocations, property expropriations if required and ultimately construction.

The funding of this assignment is sourced from the appropriate Transportation Services growth account. The project schedule also necessitates initiation of other project activities in the current year. As such, the Sources of Finance report includes an additional allowance for city related expenses of approximately $100,000 for costs associated with topographic surveys, reference plans, and property acquisitions.

**Consultant Selection**

MMM Group Limited completed successfully the EA for the Wonderland Road South Corridor from Southdale Road West to Highway 401. MMM Group Limited was selected to undertake the EA after a competitive consultant procurement process in accordance with the Procurement of Goods and Services Policy Section 15.2 (e) in which four (4) firms were invited to submit detailed proposals.

MMM Group’s performance during the EA was positive and detailed knowledge of the Wonderland Road South corridor was obtained. Appointment of MMM Group as the consulting engineer for the design phase creates efficiencies providing financial advantage to the City by eliminating duplication that would be required if another firm were introduced. Considering MMM Group’s performance, a design proposal was requested and scope and fees were negotiated. MMM Group’s experience on similar design projects combined with a project proposal that demonstrated a thorough understanding of the goals and objectives illustrated the suitability for the undertaking. The firm is familiar with City staff and procedures through other projects with the City.
In light of the above, MMM Group Limited provides the best value for the City to complete the detailed design and contract preparation for the Wonderland Road South two lane upgrade. Subject to successful completion of the design phase of this project, MMM Group Limited may be considered for the construction administration stage.

CONCLUSION

The Environmental Assessment (EA) for the Wonderland Road South Improvements between Southdale Road West and Highway 401 was completed by MMM Group Limited. The EA was prepared with input from residents, external agencies, utilities, emergency service providers, agricultural community and other stakeholders, as well as First Nations and property owners in proximity to the study. The first phase of improvements is a large complex project with an estimated value of construction and utility relocations in the order of $9 Million.

It is recommended that MMM Group Limited be awarded the consulting assignment for the detailed design and tendering of the Wonderland Road South two-lane upgrade between Highway 402 and Highway 401, in the amount of $626,823 (excluding HST).

Acknowledgements

This report was prepared with assistance from Maged Elmadhoon, Traffic Planning Engineer in the Transportation Planning & Design Division.

PREPARED BY: DOUG MACRAE, P.ENG DIVISION MANAGER, TRANSPORTATION PLANNING & DESIGN

REVIEWED AND CONCURRED BY: EDWARD SOLDO, P.ENG. DIRECTOR, ROADS AND TRANSPORTATION

RECOMMENDED BY: JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES & CITY ENGINEER

Attach: Appendix A – Sources of Financing
c: Scott Roberts, P.Eng.; MMM Group Limited (2655 North Sheridan Way, Suite 300, Mississauga, ON, L5K 2P8)
FINANCE & CORPORATE SERVICES REPORT ON THE SOURCES OF FINANCING:
Finance & Corporate Services confirms that the cost of this project can not be accommodated within the financing available for it in the Capital Works Budget and that, subject to the adoption of the recommendations of the Managing Director, Environmental & Engineering Services and City Engineer, the detailed source of financing for this project is:

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<th>Additional Funding Required</th>
<th>Revised Budget</th>
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<th>Balance for Future Work</th>
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**SOURCE OF FINANCING**

1) Financial Note:
- Contract Price: $626,823
- Add: HST @13%: 81,487
- Total Contract Price Including Taxes: 708,310
- Less: HST Rebate: 70,455
- Net Contract Price: $637,855

2) NOTE TO CITY CLERK:
Administration hereby certifies that the estimated amounts payable in respect of this project does not exceed the annual financial debt and obligation limit for the Municipality as determined by the Ministry of Municipal Affairs in accordance with the provisions of Ontario Regulation 403/02 made under the Municipal Act and, accordingly the City Clerk is hereby requested to prepare and introduce the necessary authorizing by-laws.

An authorizing by-law should be drafted to secure debenture financing for Project TS1487 Wonderland Road Two Lane Upgrade for the net amount to be debentured of $95,822.

3) The additional financing of $155,000 is required at this time to expedite the detailed design and contract preparation for this project. The additional $155,000 is being brought forward from the 2016 budget for this project, and the 2016 budget will be reduced accordingly such that the full project budget will remain the same. The additional amount includes an allowance for city related expenses of approximately $100,000 for costs associated with topographic surveys, reference plans and property acquisitions. The additional $155,000 is 87% supported by development charges and 13% tax supported, as per the full project budget. Therefore, $134,900 is available as an additional drawdown from the City Services Reserve Fund - Roads Component and tax supported funding of $20,100 is available as a transfer of debenture quota from TS1446-15 - 2015 Road Rehabilitation-Main, a previously approved project that has this amount as available surplus.

4) Development charges have been utilized in accordance with the underlying legislation and the Development Charges Background Studies completed in 2014.