

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON JULY 17, 2017</b>
<b>FROM:</b>	<b>KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR, ENVIRONMENTAL AND ENGINEERING SERVICES &amp; CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>APPOINTMENT OF CONSULTING ENGINEERS GROWTH MANAGEMENT IMPLEMENTATION STRATEGY SOUTHWEST SANITARY SERVICING PROJECTS</b>

<b>RECOMMENDATION</b>
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That, on the recommendation of the Managing Director, Environmental & Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to appointment of consulting engineers for the following Growth Management Implementation Strategy (GMIS) projects:

- (a) AECOM Canada Ltd **BE APPOINTED** Consulting Engineers to complete the pre-design and detailed design for the Phase 3 Southwest Area Trunk Sanitary Sewer in accordance with the estimate, on file, at an upset amount of \$361,624.00 including 10% contingency, excluding HST, based upon the Fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and in accordance with Section 15.2 (g) of the City of London's Procurement of Goods and Services Policy;
- (b) AECOM Canada Ltd **BE APPOINTED** Consulting Engineers to complete the construction administration for the Exeter Road Sanitary Sewer in accordance with the estimate, on file, at an upset amount of \$200,937.00 including 10% contingency, excluding HST, based upon the Fee Guideline for Professional Engineering Services, recommended by the Ontario Society of Professional Engineers; and in accordance with Section 15.2 (g) of the City of London's Procurement of Goods and Services Policy;
- (c) the financing for the project **BE APPROVED** in accordance with the "Sources of Financing Report" attached hereto as Appendix "A";
- (d) the Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with this project;
- (e) the approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract; and,
- (f) the Mayor and City Clerk **BE AUTHORIZED** to execute any contract or other documents, if required, to give effect to these recommendations.

<b>PREVIOUS REPORTS PERTINENT TO THIS MATTER</b>
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- 2015-02-03 Southwest Area Trunk Sanitary Sewer Detailed Design Appointment of Consulting Engineer: Phase 2 – Campbell Street (Hamlyn Street to Lambeth Optimist Park)
- 2014-05-12 Southwest Area Trunk Sanitary Sewer Detailed Design: Appointment of Consulting Engineer: Phase 1 – Wonderland Road South (Dingman Drive

to Wharncliffe Road South) & Hamlyn Street (Wonderland Road South to Campbell Street)

2014-02-03 Notice of Completion of the Southwest Area Sanitary Servicing Master Plan: Municipal Class Environmental Assessment for the Southland Wastewater Treatment Plant and Proposed Sanitary Servicing of the Southwest Area (ES5260)

## 2015-19 STRATEGIC PLAN

This report and its recommendations support the Strategic Plan under Building a Sustainable City – Responsible Growth, by planning and designing new infrastructure consistent with the Growth Management Implementation Strategy (GMIS).

## BACKGROUND

### **Purpose:**

This report recommends the appointment of a qualified engineering consultant to complete engineering services for the following two GMIS sanitary sewer projects:

- detailed design for Phase 3 of the Southwest Area Trunk Sanitary Sewer, and
- construction administration for Exeter Road Sanitary Sewer.

These projects are identified in the 2014 Development Charges Study and were approved by Council in the 2017 and 2018 Growth Management Implementation Strategy (GMIS) updates to be constructed in 2017 or 2018.

### **Context:**

The awarded consulting work will allow for the construction of an estimated \$10.5M of capital infrastructure and will facilitate approximately 890 hectares of mixed residential, commercial, and industrial development. The appointment of this consultant for the two projects will ensure that the servicing is delivered as set out by the Council approved GMIS update.

## DISCUSSION

The current consultant appointment awards two Growth Management Implementation Strategy sanitary sewer projects. These projects will provide growth related sanitary servicing to lands within the Southwest Area Secondary Plan. Figures showing the locations of the two projects are provided in:

- Appendix B1 - Phase 3 Southwest Area Trunk Sanitary Sewer Location, and
- Appendix B2 - Exeter Road Sanitary Sewer Location.

The following sections provide further details on these two projects.

### **Phase 3 Southwest Area Trunk Sanitary Sewer**

In 2014, Council approved the Southwest Area Sanitary Servicing Master Plan. The Master Plan provides a high-level servicing strategy for the Lambeth, North Lambeth, North Talbot and Bostwick neighbourhoods as defined by the Southwest Area

Secondary Plan. The sanitary sewers identified in the Master Plan will serve lands designated for residential and non-residential growth within the Southwest Area Secondary Plan.

Phase 1, completed in 2015, included construction of 2,150 metres of trunk sanitary sewer on Wonderland Road South (Dingman Drive to Hamlyn Street) and Hamlyn Street (Wonderland Road South to Campbell Street). In 2016, Phase 2 was completed which extended sewer works from Hamlyn Street/Campbell Street to the north limit of Campbell Street and Optimist Park.

Phase 3 will extend on Phase 1 sewer works from Hamlyn Street/Wonderland Road to the Bostwick Pumping Station on Wharnccliffe Road S. The project will involve the installation of approximately 1,550 metres of trunk sanitary sewer (750mm diameter) along the Wonderland Road S and Wharnccliffe Road S corridors. Phase 3 of the Southwest Trunk sanitary sewer was identified for construction in 2018 in both the current Growth Management Implementation Strategy Update (GMIS) and the 2014 Development Charges Background Study.

AECOM has extensive background knowledge of Phase 1 and Phase 2 of the Southwest trunk sanitary works and has completed the preliminary design of Phase 3. As part of a two stage procurement process, AECOM was awarded the first phase of the work and completed the design of the trunk sanitary sewer for Wonderland Road S between Hamlyn Street and Wharnccliffe Road S. Much of the preliminary engineering for the Phase 3 work has already been completed as part of the previous phases of the work. The 2017 design will reaffirm this preliminary design as part of the upcoming assignment and complete the remaining detailed design components.

Given their engineering knowledge and experience, AECOM was requested to submit a proposal for Phase 3 detailed design of this project. The submitted proposal is \$361,624.00 including 10% contingency, excluding HST. The approval of these works will increase the value of the existing consulting engineering assignment noting the total fees associated with Phase 1, Phase 2, and Phase 3 is \$1,722,882.56. A breakdown of the fees from Phases 1, 2 and 3 is shown below:

	Design Fee	Construction Administration Fee
Phase 1	\$399,926.00	\$526,460.00
Phase 2	\$167,523.00	\$267,349.56
Phase 3	\$361,624.00	

### **Exeter Road Sanitary Sewer**

The Exeter Road sanitary sewer between Breck Avenue and a point 300m east of Meadowbrook Drive was also identified in the Southwest Area Sanitary Servicing Master Plan and the Growth Management Implementation Strategy. This sewer will service future growth residential and non-residential growth lands within the Southwest Area Secondary Plan.

The Exeter Road sanitary sewer project was tendered in May 2017. The low bid tender bid was \$2,456,754.68 and will be formally awarded through an Administrative Approval in accordance with the Procurement of Goods and Services Policy.

AECOM was awarded the detailed design work and tendering for the GMIS Exeter Road sanitary sewer between Breck Avenue and 300m east of Meadowbrook Drive through a Request for Proposal (RFP) in 2016. The City's GMIS has identified this sanitary trunk sewer (1,050m diameter) linkage for 2017 construction. The fees

associated with the detailed design engineering assignment for these works were \$82,668.00.

Over the past year, AECOM has completed the detailed design and tendering of this project, and has connected with the community through a public meeting and onsite consultation. Given their engineering knowledge and experience, AECOM was requested to submit a proposal for construction administration of this project. The submitted proposal for construction administration is \$200,937.00 including 10% contingency, excluding HST. The approval of this work will increase the value of the existing consulting engineering assignment noting the total fees associated with this project is \$283,605.00.

AECOM has shown their competency and expertise with infrastructure projects of this type and have provided good performance in the past on City projects. City staff continue to foster a collaborative working relationship that focuses on achieving the lowest life cycle cost and highest service performance for municipal infrastructure to the benefit of water and sewer rate payers and taxpayers in the long term.

### **Justification for Contract Extensions**

In accordance with Section 15.2(g) of the Procurement of Goods and Services Policy, Civic Administration is recommending that AECOM be authorized to carry out the remainder of engineering services for both Phase 3 Southwest Area Trunk Sanitary Sewer as well as the Exeter Road Sanitary Sewer. AECOM has satisfactorily completed a substantial part of these projects and is recommended for award of the balance of the work having satisfied all financial, reporting and other conditions required of the Policy. It is to the financial advantage of the City due to the fact that this consultant has specific knowledge of the project and have undertaken work for which duplication would be required if another firm were to be selected.

In addition, staff have reviewed the fee submissions in detail considering the hourly rates provided by each staff member. Staff have confirmed that hourly rates are consistent with those submitted through competitive processes. Staff also reviewed the time allocated to each project related task. Staff can confirm that the amount of time allocated to each project task is consistent with prior projects of a similar nature that have been awarded through a competitive process. In general, the assignment is found to be reasonable and in-line with those that would be expected through a competitive process.

AECOM has shown their competency and expertise with infrastructure projects of this type and have provided good performance in the past on City projects. City staff continue to foster a collaborative working relationship that focuses on achieving the lowest life cycle cost and highest service performance for municipal infrastructure to the benefit of water and sewer rate payers and taxpayers in the long term.

### **Development Servicing**

The consulting work outlined above will allow for the construction of an estimated \$10.5M of capital infrastructure that will ultimately service approximately 890 hectares. Vacant lands in this area are capable of accommodating approximately 2,000 mixed residential dwellings and 60,000m<sup>2</sup> of commercial/industrial development.

The appointment of this consultant for the two projects identified above allows the scheduling requirements of the GMIS to be met.

## CONCLUSIONS

The appointment of AECOM to complete engineering services for the detailed design for Phase 3 of the Southwest Area Trunk Sanitary Sewer and for construction administration of the Exeter Road Sanitary Sewer will allow these two GMIS sanitary sewer projects to proceed. These projects were approved through the Growth Management Implementation Strategy update process and will facilitate approximately 890 hectares of mixed residential and commercial development. The appointment of this consultant for the two projects identified above will ensure these works are constructed as required by the GMIS schedule.

### Acknowledgements:

This report was prepared within the Wastewater and Drainage Engineering Division by Kyle Chambers, P.Eng. with assistance from Marcus Schaum, CET.

<b>SUBMITTED BY:</b>	<b>REVIEWED &amp; CONCURRED BY:</b>
<b>TOM COPELAND, P. ENG. DIVISION MANAGER WASTEWATER AND DRAINAGE ENGINEERING</b>	<b>SCOTT MATHERS, MPA, P. ENG. DIRECTOR WATER &amp; WASTEWATER</b>
<b>RECOMMENDED BY:</b>	
<b>KELLY SCHERR, P.ENG., MBA, FEC MANAGING DIRECTOR ENVIRONMENTAL &amp; ENGINEERING SERVICES AND CITY ENGINEER</b>	

July 10, 2017

Attach: Appendix A – Sources of Financing  
Appendix B1 – Phase 3 Southwest Area Trunk Sanitary Sewer Location  
Appendix B2 – Exeter Road Sanitary Sewer Location

c.c. AECOM Canada Ltd.  
Gary McDonald, Budget Analyst  
Paul Yeoman, Director of Development Finance