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TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON AUGUST 24, 2015
FROM:	JOHN BRAAM, P. ENG. MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER
SUBJECT:	SHIFT RAPID TRANSIT INITIATIVE APPOINTMENT OF SURVEY CONSULTANTS

RECOMMENDATION

That on the recommendation of the Managing Director, Environmental and Engineering Services & City Engineer, the following actions **BE TAKEN** with respect to the appointment of consultant surveyors for the Shift Rapid Transit Initiative:

- a) Callon Dietz Incorporated, **BE APPOINTED** Survey Consultant to complete the engineering survey for the Environmental Assessment North and East Corridors, in the amount of \$167,750.00 excluding HST, in accordance with Section 15.2 (d) of the Procurement of Goods and Services Policy;
- b) Archibald, Gray and McKay Ltd., **BE APPOINTED** Survey Consultant to complete the engineering survey for the Environmental Assessment South and West Corridors, in the amount of \$190,190.00 excluding HST, in accordance with Section 15.2 (d) of the Procurement of Goods and Services Policy;
- c) the financing for these assignments **BE APPROVED** as set out in the Source 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 with the consultants for the work; and,
- f) 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
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- Civic Works Committee - June 19, 2012 - London 2030 Transportation Master Plan
- Civic Works Committee - October 7, 2013 – Bus Rapid Transit Strategy
- Civic Works Committee – April 7, 2014 – Timelines for Major Environmental & Engineering Reports
- Civic Works Committee – July 21, 2014 – Rapid Transit Corridors Environmental Assessment Study Appointment of Consulting Engineer

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BACKGROUND

Purpose

The purpose of this report is to seek the approval of the Council to retain two survey consultants to complete the engineering survey in support of the Shift Rapid Transit Initiative.

Context

The Rapid Transit Initiative is the primary recommendation of the Smart Moves Transportation Master Plan, a cornerstone of The London Plan and a key feature in Council’s 2015 - 2019 Strategic Plan. Council’s Strategic Plan identifies the Rapid Transit Implementation Strategy as a means to deliver convenient and connected mobility choices as part of Building a Sustainable City.

The rapid transit planning approval process is proceeding through the Shift initiative, the Rapid Transit Environmental Assessment (EA). Currently the EA has identified the preliminary preferred rapid transit corridors. At this time, it is necessary to undertake engineering surveys of the corridors to enable further investigation of the corridors and preliminary design of the rapid transit cross section and related features.

More information on this initiative is available at www.ShiftLondon.ca. A complete status update to Strategic Priorities and Policy Committee is anticipated in early September prior to the next round on public consultation on the preferred corridors and technology.

The engineering survey consists of a detailed topographic survey accurate to 5 cm horizontally and 2 cm vertically over the entire 26 km length of the project, plus underground utility locations (compiled from as-built plans), all delivered in comprehensive 3-D CAD files fully compatible with the City’s digital drawing standards.

The engineering survey will be related to the City’s horizontal and vertical georeferencing systems to allow integration of the City’s parcel mapping and other GIS resources. The resulting CAD files will enable the completion of the EA and support both the preliminary and eventually detailed design of the future system. Although there are alternative methods for acquiring the survey information in stages with slightly shorter delivery schedules, completing the detailed engineering survey “up front” is the least costly of all the options and represents the best overall value to the City.

DISCUSSION

Project Description

The Smart Moves 2030 Transportation Master Plan recommended a rapid transit system, consisting generally of north/south line in the Richmond Street/Wellington Road corridor and an east/west line in the Oxford Street/Dundas Street corridor, both serving the downtown and broader central area.

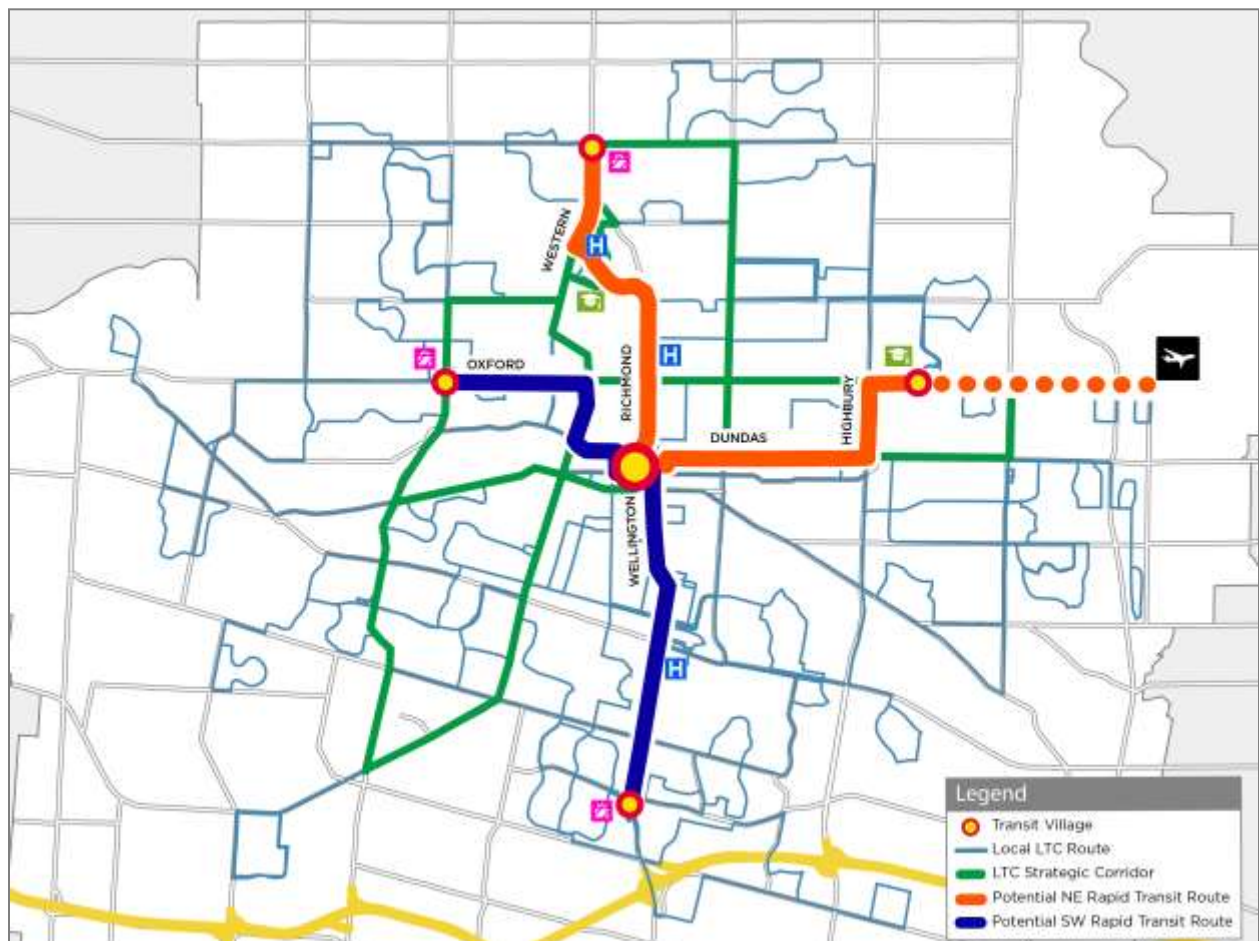
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The first phase of Shift, the Rapid Transit EA was undertaken through a master planning process. This process included a review of a long list of alternative rapid transit corridors and recommended the corridors that comprise the preliminary preferred rapid transit network. Two Rapid Transit corridors will connect key hubs across the City.

The North-East Corridor (orange line) connects Masonville Place, Western University, St. Joseph’s Hospital, London Health Sciences Centre, Downtown London, Old East Village, Fanshawe College and the London International Airport (longer term).

The South-West Corridor (blue line) connects White Oaks Mall, London Health Sciences Centre, Downtown London and the Oxford-Wonderland residential and commercial hub. Shift has also determined detailed routing options in the downtown and the two corridors meet along King Street with a proposed central transit hub in the area of King Street and Clarence Street.

Figure 1 – Preliminary Preferred Corridors



As the master plan portion of Shift approaches completion, detailed analysis and preliminary design is required in the preferred corridors. This analysis will include the development of the rapid transit corridor road platform, transit station locations, utility and stormwater management requirements, property needs and cost estimates. The engineering survey development is required now to support these activities and complete the environmental assessment. This engineering survey will also serve as the base plan for the ultimate design.

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The funding for these survey assignments is available in the Rapid Transit accounts within the Transportation Growth Capital Budget.

Consultant Selection

The completion of this large surveying assignment within the required timeframe is not achievable using City survey crews. As such, a competitive process was initiated to appoint survey consultant(s) that have the expertise and capacity to complete the assignment. The consultant selection process has been undertaken in accordance with the City's Purchasing and Procurement Policy for assignment of complex projects.

Geomatics Division developed a Request For Proposal for a detailed survey specification that not only meets the immediate requirements to complete the EA and preliminary design, but that will also support detailed engineering design. Three qualified survey consultants were invited to submit proposals for the undertaking.

Given the quantity of the surveying required and the need to complete the work before the winter season, the scope was separated into four separate corridors. The possibility of award of corridor assignments to a single or multiple survey consultants was enabled and determined based on the content of the proposals describing the consultant capabilities. The consultants responded with proposals for both schedule and costs for each corridor.

An evaluation committee with representation from the Geomatics Division and Transportation Planning & Design Division reviewed the consultant submissions for the project. The proposals were evaluated based on delivery efficiency, cost and project risk. The evaluation committee concluded that award of the following two assignments provides the best value to the City:

- North and East Corridors to Callon Dietz Incorporated; and,
- South and West Corridors to Archibald, Gray & McKay Ltd.

Both survey consultants have the experience and capacity to undertake this large undertaking. The consultants have past proven experience on similar projects of this nature. The award of two corridors to each of the identified consultants achieves the lowest possible total cost combined with the fastest completion of deliverables.

CONCLUSION

The Shift Rapid Transit Environmental Assessment is delivering on Council's Strategic Plan Objective of Building a Sustainable City through the implementation of convenient and connected mobility choices. Shift is progressing expeditiously. Now that the preliminary preferred corridors have been identified, engineering survey is required to progress through the next phase of the project.

Completion of the engineering survey is an integral part of an environmental assessment process that will provide the environmental clearance, preliminary design, and refine estimated implementation costs.

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Based on the technical evaluation of the proposals, it is recommended that:

- Callon Dietz Incorporated be awarded the engineering survey assignments for the North and East Corridors at an upset amount of \$167,750.00 excluding HST; and,
- Archibald, Gray & McKay Ltd. be awarded the engineering survey assignments for the North and East Corridors at an upset amount of \$190,190.00 excluding HST.

SUBMITTED BY:	SUBMITTED BY:
DOUG MACRAE, P.ENG. DIVISION MANAGER, TRANSPORTATION PLANNING & DESIGN	A. GARY IRWIN, O.L.S, O.L.I.P. DIVISION MANAGER, GEOMATICS AND CHIEF SURVEYOR
REVIEWED & CONCURRED BY:	RECOMMENDED BY:
EDWARD SOLDI, P.ENG. DIRECTOR, ROADS & TRANSPORTATION	JOHN BRAAM, P.ENG. MANAGING DIRECTOR, ENVIRONMENTAL & ENGINEERING SERVICES AND CITY ENGINEER

Attach: Appendix "A" – Sources of Financing

- c. Terry Dietz, Callon Dietz Incorporated
Jason Wilband, Archibald, Gray & McKay Ltd.