

TORONTO TRANSIT COMMISSION REPORT NO.

MEETING DATE: OCTOBER 23, 2008

SUBJECT: PROCUREMENT AUTHORIZATION
PROGRAM OF REQUIREMENTS AND CONCEPTUAL DESIGN
LOW FLOOR LIGHT RAIL VEHICLE MAINTENANCE AND
STORAGE FACILITIES
CONTRACT TC85-6

ACTION ITEM

RECOMMENDATION

It is recommended that the Commission authorize the award of the following contract, in the total upset limit amount of \$3,100,000, for the Program of Requirements and Conceptual Design for the Maintenance and Storage Facilities required for the Transit City lines and the LRT Fleet Replacement project to Totten Sims Hubicki Associates (1997) Limited/AECOM Canada Ltd. (TSH/AECOM).

FUNDING

Expenditures of \$344.72 million were included in the TTC's 2009-2013 base Capital Program, under the LRT Replacement Maintenance & Storage Facility project under category State of Good Repair/safety as outlined on pages 993-995, approved by the Commission on August 27, 2008. Approval of the base capital program by City of Toronto Council is anticipated in December 2008.

Four other Transit City Maintenance and Storage Facility projects were included below the line under the Transit City Plan initiatives as outlined on pages 1483-1498; however no funding commitments have been identified to proceed with these projects.

On August 27, 2008, the Commission approved \$416K in probable expenditures for 2008 for the four below the line Maintenance and Storage Facilities as part of the 2009-2013 TTC Capital Program. \$100K will be incurred by December 2008. It is anticipated a further \$400K will be incurred in the first quarter of 2009 for the above noted contract.

The Commission considered (report 11 – April 23, 2008) the Transit City Light Rail Plan status update and approved \$700,000 in 2008 to the Transit City Maintenance and Storage Facilities. This report was forwarded to the City Budget Committee but was referred for consideration through the budget process for Council approval in December 2008. A status

update for TCP is the subject of a separate report to the Commission for October 23, 2008.

BACKGROUND

The Toronto Transit City Light Rail Plan consists of seven new light rail transit (LRT) lines that would, upon implementation, provide a network of rapid transit throughout Toronto. The Commission endorsed the Transit City Plan at its meeting on March 21, 2007 and has since received several updates.

The Toronto Transit Commission currently operates a streetcar fleet comprised of 196 Canadian Light Rail Vehicles (CLRVs) and 52 Articulated Light Rail Vehicles (ALRVs) that were manufactured in the mid to late 1970's and 1980's respectively. These vehicles have reached the end of their design life, and are scheduled for replacement between 2012 and 2018 with the introduction of 204 new Low Floor Light Rail Vehicles (LFLRV). Running repairs to the existing fleet are currently conducted at the Roncesvalles and Russell Carhouses which were constructed in 1895 and 1916 respectively.

In order to identify the maintenance and storage requirements to support the Transit City lines, and the new Low Floor Light Rail Vehicles, a Streetcar Maintenance and Storage Master Plan was prepared.

This study concluded that the existing facilities were not capable of providing service for the incoming LFLRV fleet and that four (4) new, strategically located, maintenance and storage facilities would be required for the Transit City lines and that one (1) maintenance and storage facility would be required for the new replacement LFLRV fleet, for a total of five (5) facilities.

As a result of the Master Plan, a Request for Proposal, Contract TC85-6, was developed to procure Consultant services to initially complete a program of requirements, conceptual design and site plan for the facilities, and also include the right to amend the contract to include EA additional engineering work for any or all locations in order to allow the Commission the flexibility to consider different delivery strategies, such as 'Design-Build-Finance' or 'Design/Bid/Build' while reserving the right to have the awarded consultant complete all or a portion of the subsequent design phases.

DISCUSSION

The TC85-6 contract will provide all professional and support services required to:

- Develop the Program of Requirements study to define the needs of the maintenance and storage facilities;
- Develop the Conceptual Design for each of the five (5) maintenance and storage

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- facilities, ensuring a consistent design approach and operational functionality;
- Prepare a Site Plan for each of the five (5) maintenance and storage facilities to define property requirements along with identifying major issues to be addressed in an Environmental Assessment.

A Request for Proposals was publicly advertised in several local and international publications as well as the TTC's web site on August 22, 2008. Twenty-one companies requested copies of the proposal documents out of which four companies or joint ventures submitted a proposal as summarized in Appendix "A".

It was pre-determined that the recommendation for award would be based on the highest rated qualified proponents with reasonable pricing. In addition, the Request for Proposals stated that the Commission reserved the right to amend the Contract to include segments of subsequent environmental assessments and any or all engineering phases for any or all locations, subject to satisfactory performance and project approvals. All proposals received were reviewed and ranked by the evaluation team based on the evaluation criteria as shown in Appendix "B". Following the determination of the final ranking, the pricing envelopes of the highest rated proponents were opened and evaluated.

Evaluation of Consultants

From the four companies that submitted proposals, TSH/AECOM and Hatch Mott MacDonald Limited were the highest rated and considered equal based on the qualitative evaluation. After review of the pricing information from these companies, TSH/AECOM is recommended for award as they submitted the lowest total evaluated pricing and their proposal is considered acceptable.

JUSTIFICATION

Totten Sims Hubicki Associates (1997) Limited/AECOM Canada Ltd. is recommended for award of contract for the program of requirements, conceptual design and site plan for each of the five maintenance and storage facilities (4 facilities for the Transit City Light Rail Transit Program and 1 facility for LRT Replacement Maintenance and Storage Facility project) based on their proposal submission.

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Attachments - Appendices A and B

APPENDIX A

**PROCUREMENT AUTHORIZATION
PROGRAM OF REQUIREMENTS AND CONCEPTUAL DESIGN
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LIST OF PROPONENTS

Giffels Associated Limited/IBI Group

Hatch Mott MacDonald Limited

Parker & Associates Incorporated

* Totten Sims Hubicki Associates (1997) Limited/AECOM Canada Ltd.

* Recommended Company

APPENDIX B

PROCUREMENT AUTHORIZATION PROGRAM OF REQUIREMENTS AND CONCEPTUAL DESIGN LOW FLOOR LIGHT RAIL VEHICLE MAINTENANCE AND STORAGE FACILITIES CONTRACT TC85-6

EVALUATION CRITERIA

CORPORATE QUALIFICATIONS / EXPERIENCE

- a) Number of Years in Business
- b) Relevant Corporate Experience
- c) CADD Facilities and Experience in using CADD
- d) Depth of Available Relevant Resources for EA Component at the Proponent's Local Office

PROJECT STAFF QUALIFICATIONS / EXPERIENCE

The following criteria were evaluated for the Project Manager and Project Team/Sub consultants:

- a) Number of Years of Direct Experience
- b) Work of a Similar Size and Nature
- c) Technical Qualifications

UNDERSTANDING OF THE WORK

- a) Proposed Methodology/Approach to the Work