

TORONTO TRANSIT COMMISSION REPORT NO.

MEETING DATE: January 20, 2010

SUBJECT: PROCUREMENT AUTHORIZATION AMENDMENT
CONSULTANT DESIGN SERVICES – UNION SUBWAY
STATION SECOND PLATFORM AND CONCOURSE
IMPROVEMENTS
CONTRACT U85-6

ACTION ITEM

RECOMMENDATIONS

It is recommended that the Commission authorize Contract Amendment No. 7 to AECOM Canada Ltd. (AECOM) in the amount of \$4,125,503 for the completion of detailed design and support during construction for the Union Subway Station Second Platform project, increasing the total upset limit amount to \$12,000,000 from \$7,874,497.

FUNDING

Sufficient funds for this expenditure are included in the following projects of the TTC's 2010-2014 Capital Program which was approved by City Council on December 8, 2009:

- Waterfront Initiatives, under Union Station Second Platform project funded by Waterfront Toronto (as set out on pages 1617 to 1624, Expansion Category);
- 3.9 Building and Structures, under Fire Ventilation Upgrades project (as set out on pages 691 to 703, State of Good Repair/Safety Category); and
- 3.4 Bridges and Tunnels, under Bridges/Structures Maintenance program (as set out on pages 647 to 654, State of Good Repair/Safety Category).

BACKGROUND

The project will add a new subway platform to the south of the existing centre platform and reconfigure the concourse level. These modifications will improve the flow of commuter and pedestrian traffic through Union Station, including future passenger volumes, which are expected to nearly double by 2021. The design also includes upgrades to the tunnel ventilation equipment as part of the Fire Ventilation Upgrade project and repairs to the existing station platform and concourse roof structure as part of the Bridges/Structures Maintenance program.

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At its meeting of August 30, 2006, the Commission authorized the award of contract U85-6 to EarthTech Canada Inc., now operating as AECOM Canada Ltd., to provide consultant design services for the preliminary and detailed design, preparation of contract drawings and specifications and construction review for the second platform at Union Station including concourse level improvements and fire ventilation upgrades in the upset limit amount of \$7,000,000.

Contract U85-6 details are as follows:

Original Contract Upset Limit Amount	\$	7,000,000
Previously Approved Contract Amendments		874,497
This Contract Amendment		<u>4,125,503</u>
Total Revised Upset Limit Amount	\$	12,000,000

Based on invoices received to the end of 2009, sufficient funds are available within the approved upset limit amount. However, the consultant has indicated that they performed approximately \$1 million of work above the authorized total. This has not yet been formally submitted and accordingly not reviewed by staff.

DISCUSSION

The original upset limit for this contract was based on the conceptual design and the project estimated final cost in 2006 of \$89.3 million. As the design progressed with input from stakeholders including the City of Toronto, GO Transit, VIA and adjacent property owners to refine the design, the cost estimate increased to \$137.5 million as included in the 2008 budget. Furthermore, there is an additional \$45 million of work associated with the fire ventilation system and station rehabilitation funded from other projects.

Waterfront Toronto (WT), in 2008, conducted a peer review of the project's estimated final cost including engineering fees and fully support the increase and has included funding for the increased amount in their long term plans. TTC staff are currently working with WT to amend the Delivery Agreement which we currently expect to be finalized by the end of February 2010.

The primary reasons for the increase in the consultant's fees are as follows:

- undertaking design work for rehabilitation of the existing centre platform, structure, and finishes;
- additional scope for moat finishes (required by Heritage Canada), and rehabilitation of the existing roof and structure;
- increased floor area required for service rooms and associated equipment;
- additional staging requirements to maintain station operation during construction;

- additional demolition, structural support, utility relocation and structural work more than originally anticipated;
- redesign resulting from the change in direction of the City's Revitalization of Union Station and the new "Dig Down" project; and
- additional design work associated with the construction of the fire ventilation systems.

Based on the above, staff have assessed that an increase in the overall engineering fees is warranted. The requested increase is less than the fee calculated using the Professional Engineers of Ontario Guidelines for Schedule of Fees for Engineering Services for the current estimated cost of construction.

The actual fees paid will be based on work plans as approved by staff.

JUSTIFICATION

The Contract Amendment is required to pay for the additional engineering costs associated with the increased project work.

January 6, 2009
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