

TORONTO TRANSIT COMMISSION REPORT NO.

MEETING DATE: August 23, 2010

SUBJECT: PROCUREMENT AUTHORIZATION AMENDMENT
WILSON CARHOUSE EXPANSION – TORONTO ROCKET
NEW TRACTION POWER SUPPLY PENDANT SYSTEM
CARHOUSE SOUTH EXPANSION
CONTRACT CHANGE C1-34-85

ACTION ITEM

It is recommended that the Commission authorize Contract Change C1-34-85 to Black & McDonald Limited in the amount of \$4,500,000 for the supply and installation of a new traction power supply pendant system in the south half of the Wilson Carhouse.

FUNDING

Sufficient funds to accommodate these expenditures are included in Project 3.9 Buildings and Structures Projects, under Wilson Carhouse Expansion, as set out on Pages 769-772 in the TTC 2010-2014 Capital Program as approved by City Council on December 8, 2009.

BACKGROUND

At its meeting of July 10, 2008, the Commission approved the award of Contract C1-34 to Black & McDonald Limited in the amount of \$63,089,000.00 for the construction of a new carhouse east expansion of approximately 2800 m², a carhouse south expansion of approximately 2000 m², a basement extension of approximately 850 m², the rehabilitation of the existing carhouse roof and the replacement of the subway exterior wash. The contract details are as follows:

Original Contract Amount:	\$63,089,000.00
Approved Contract Changes to Date:	\$ 3,128,654.92
Increase for Contract Change C1-34-85:	<u>\$ 4,500,000.00</u>
Revised Contract Amount:	\$70,717,654.92

DISCUSSION

The existing Wilson Carhouse was designed for maintenance of 2-car married pairs, and would only accommodate the Toronto Rocket (TR) 6-car trains if they straddle the central walkway which is required for emergency access and egress. The building modifications under Contract C1-34 added two new 6-car maintenance tracks to the east, and extended the south end of the carhouse by 2-car lengths to accommodate the new TR trains for maintenance as shown in Appendix "A".

Since the TR trains must be maintained as a 6-car unit, the power demands to move and conduct tests on a TR train within the carhouse are greater than the existing 2-car configuration.

The original intent was to install a new traction power supply pendant system for the east expansion of the Wilson Carhouse and to extend the existing system into the new south expansion as part of the C1-34 Contract. However, at the time this contract was tendered, the electrical load information for the new TR trains was not available. This information has now become available and it was determined that the provisions included in the original C1-34 Contract would not be sufficient to supply the power required by the TR trains.

The scope of Contract Change C1-34-85 is to provide a new traction power supply pendant system in the new south expansion that is comparable to the new system installed in the east expansion, replace the existing system in the existing carhouse south of the central walkway and to upgrade the power distribution system to ensure sufficient power is available to supply the power required by the TR trains.

Staff have considered the alternative of issuing the installation of the new system as a new contract to start following the completion of the Contract C1-34 work. However, the alternative was deemed unacceptable as it would delay the completion of the work by six to eight months, which would hinder the carhouse ability to maintain the existing fleet and the TR trains that are expected to start arriving in September 2010.

The installation of the new traction power supply pendant system at Wilson Carhouse will require a staged shut-down of the south portion of the existing carhouse. As several tracks in the south carhouse are currently not in use due to the construction work of Contract C1-34, installation of the system as a contract change to Contract C1-34 will allow the contractor to proceed with the system installation during the track closures that are currently in place, hence minimizing the overall number and duration of track closures, and reducing the overall impact on carhouse operations.

A Request for Quotation was issued to the contractor for pricing of this contract change. Negotiations are currently underway. In order not to delay the work from proceeding, staff are recommending proceeding with a contract change in the upset limit amount of \$4.5M at this time, and should the final cost of this contract change exceed \$4.5M, the

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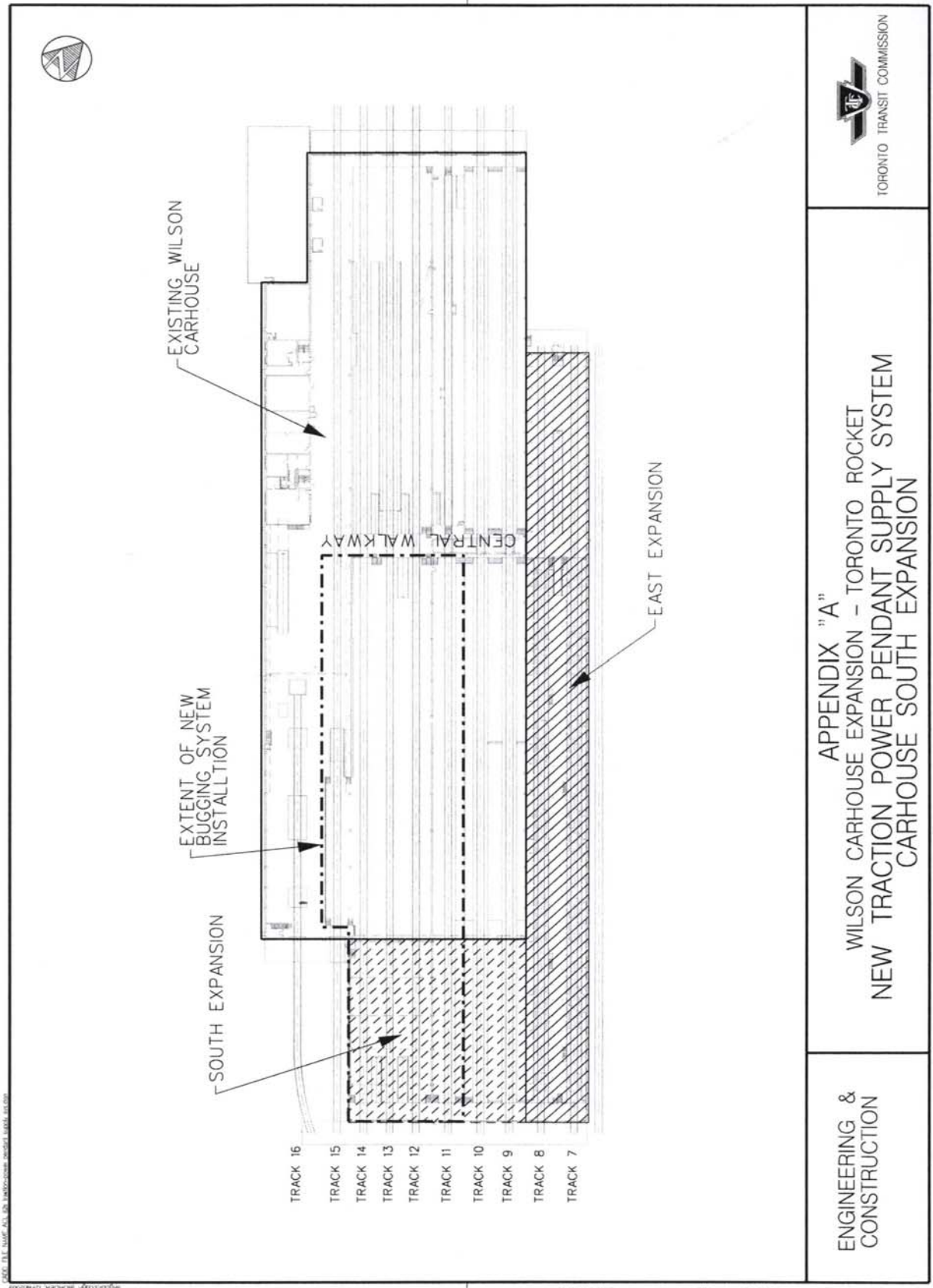
difference will be authorized in accordance with the Commission's Authorization for Expenditure policy.

JUSTIFICATION

Approval of Contract Change C1-34-85 will allow the contractor to complete the contract change work and the carhouse expansion contract work concurrently, ultimately reducing the impact on the Wilson Carhouse operations.

July 27, 2010
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Attachment: Appendix "A"



APPENDIX "A"
 WILSON CARHOUSE EXPANSION - TORONTO ROCKET
 NEW TRACTION POWER PENDANT SUPPLY SYSTEM
 CARHOUSE SOUTH EXPANSION

ENGINEERING &
 CONSTRUCTION



DATE: 01.11.2011 11:51 AM

PROJECT: TORONTO ROCKET

SCALE: 1:1000

FILE:

DATE: 01.11.2011