



## Sheppard West Station - Subway Ventilation System

**Date:** June 17, 2020  
**To:** TTC Board  
**From:** Chief Capital Officer

### Summary

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The purpose of this report is to obtain authorization for the award of Contract A60-30, Sheppard West Station and Clanton Park Emergency Service Building (ESB) – Subway Ventilation Equipment Replacement to E.S. Fox Limited (Ltd.) in the amount of \$9,260,846.00 (including all applicable taxes), on the basis of lowest acceptable total bid price.

The work for Contract A60-30 Sheppard West Station and Clanton Park ESB – Subway Ventilation Equipment Replacement includes labour, equipment and materials for replacement of subway ventilation fan components for five 200 HP fans, replacement of four existing vent shaft hydraulic doors with fire rated shaft dampers and installation of access ladders in the vent shafts to provide street level access to fan rooms and all other associated works. The contract construction is scheduled to commence in Q3 2020 and be completed by Q4 2022.

### Recommendations

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It is recommended that the TTC Board:

1. Authorize the award of Contract A60-30 Sheppard West and Clanton Park ESB – Subway Ventilation Equipment Replacement to E.S. Fox Ltd. in the amount of \$9,260,846.00, inclusive of all taxes, on the basis of lowest acceptable total bid price.

### Financial Summary

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Sufficient funds for this expenditure are included in the TTC's 2020-2029 Capital Budget & Plan under Program 3.9 Building & Structures – Fire Ventilation Upgrade project, State of Good Repair/Safety category which was approved by City Council on February 19, 2020. The Fire Ventilation upgrade total project approval cost is approximately \$504 million, of which approximately \$312 million had been committed to date.

The Chief Financial Officer has reviewed this report and agrees with the financial impact information.

## Equity/Accessibility Matters

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A cornerstone of the TTC's Corporate Plan 2018-2022 is accessibility, and as a proud leader in providing accessible public transit in the city of Toronto, we are committed to ensuring reliable, safe and inclusive transit services for all our customers. This is supported through the continued Fire Ventilation Upgrade at Sheppard West Station.

### Decision History

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There are no earlier decisions on this matter.

### Issue Background

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The Fire Ventilation Upgrade (FVU) program was initiated in 1998 to upgrade the existing subway ventilation system to reduce risk, increase reliability and performance of the system, and enhance customer and employee safety in the event of a subway system fire. The project consists of the following main components:

- Fire Ventilation Upgrades
- Second Exits
- Ventilation Equipment Replacement

To date, the FVU has been completed for York Mills, Sheppard (re-build), Finch, Lawrence and Union stations. Eglinton Station FVU is funded and being constructed by Metrolinx. Due to lack of funding and as agreed by APTA, while incremental and opportunistic improvements to the FVU have been considered, the priority has also been given to constructing Second Exits at 14 high-priority stations where there is only one means of egress or two that are less than 25 metres apart. To date, second exits have been completed at six of the 14 high-priority stations.

As ventilation equipment nears the end of its useful life or due to failures, there is a need to replace components of the equipment including fans, dampers and other components to ensure they function according to their specified requirements.

The Fire Ventilation fans at Sheppard West Station (formerly Downsview) and Clanton Park portal ESB were installed in 1994. There are a total of six fans: four at Sheppard West Station and two at Clanton Park portal ESB. One of the fans at Sheppard West Station that had a catastrophic failure was repaired and its components were replaced. As a result, the remaining fans at Sheppard West Station and Clanton Park portal ESB were put in emergency use only until all investigations, inspections, testing, and required remediation and repairs were completed. The investigation concluded that the fan blade material was deficient and required fan replacement. In addition, the existing vent shaft hydraulic doors at Sheppard West Station need to be replaced as they are frequently out of service as they are reaching the end of their lifespan.

The contract construction is scheduled to commence in Q3 2020 and be completed by Q4 2022. The work will be carried out in stages to ensure one fan and associated vent shaft damper at each end of the station and at Clanton Park ESB are in operation at all

times, and also to co-ordinate with a paving contract that is currently under construction at Sheppard West Station. There will be no impact on subway and bus operations during the construction period.

## **Comments**

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The Bid documents were prepared for Contract A60-30 and a Request for Bids (RFB) was posted on Merx as of Wednesday December 20, 2019. Eight companies downloaded copies of the bid documents and 10 attended the mandatory site tour. Two of the eight companies that attended the mandatory site tour submitted a bid by the closing date of Wednesday, February 5, 2020 and are summarized on the attached Appendix A. The bid validity expires on July 5, 2020.

The RFB specified that the Bidder must possess a valid Certificate of Recognition (COR™), with Infrastructure Health and Safety Association (IHSA), at the time of the Closing and for the duration of the term of Contract.

During the bid period, an addendum #1 was issued to extend the original closing date of Wednesday, January 22, 2020, to Wednesday February 5, 2020 per the respondent's request for additional time to prepare their submissions.

E.S. Fox Ltd. submitted the lowest acceptable total bid price and did not state any exceptions or qualifications. E.S. Fox Ltd. is COR certified. Though they have previously worked for the TTC, reference checks were completed, which indicate that they have satisfactorily performed work of comparable size, scope and complexity and technical specialty in the past. Their bid is considered commercially acceptable.

The State Group Inc. submitted the second lowest of the two bids received and also did not state any exceptions or qualifications and their bid is considered commercially acceptable.

The Agreement to Bond submitted by E.S. Fox Ltd., covers a Performance Bond, along with the Labour and Material Payment Bond, and was submitted by Western Surety Company, who have been verified as a Surety Company licensed to transact business under the Insurance Act of Ontario. As such they are considered financially capable of performing the work.

The successful Bidder will be required to execute a Performance Bond, Labour and Material Payment Bond each in the amount of 50% of the contract value.

## **Contact**

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## **Signature**

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Gary Downie  
Chief Capital Officer  
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## **Attachments**

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Attachment 1 – Appendix A – Summary of Bids

03075-1687524379-52

## APPENDIX A

### Sheppard West Station & Clanton Park ESB Subway Ventilation Equipment Replacement

#### Summary of Bids:

Bid No.	Bidder	Total Bid price
<b>1</b>	<b>E.S. Fox Ltd.*</b>	<b>\$9,260,846.00</b>
2	The State Group Inc.	\$11,051,107.00

\* Recommended for award