

STAFF REPORT INFORMATION ONLY

Presentation: Project Progress Update for Toronto-York Spadina Subway Extension

Date:	May 18, 2017
To:	TTC Board
From:	Chief Executive Officer

Summary

The purpose of this report is to present the following information regarding the Toronto-York Spadina Subway Extension project:

- Safety performance
- Construction progress status of facilities and systems
- Testing and commissioning status
- Milestones achieved and planned

Financial Summary

This report has no financial impact beyond what has been approved in the current year's budget.

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

Accessibility/Equity Matters

The TYSSE project remains in construction and therefore there is no impact on accessibility. The new stations being constructed include the full range of accessibility features.

Decision History

The CEO's report for April 2017 included a brief description of progress on the TYSSE project.

 $\frac{http://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2017/April_20/Reports/1_Chief%20Executive%20Officer%27s%20Report%20_-%20April%202017%20Update.pdf$

Contact

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70-29-58 03-04-000232320

Attachment

Presentation: TYSSE Project Progress Update

TYSSE PROJECT PROGRESS UPDATE

Keith Sibley
TYSSE Project Director

TTC Board Meeting May 18, 2017

SP# 03-04-000232474

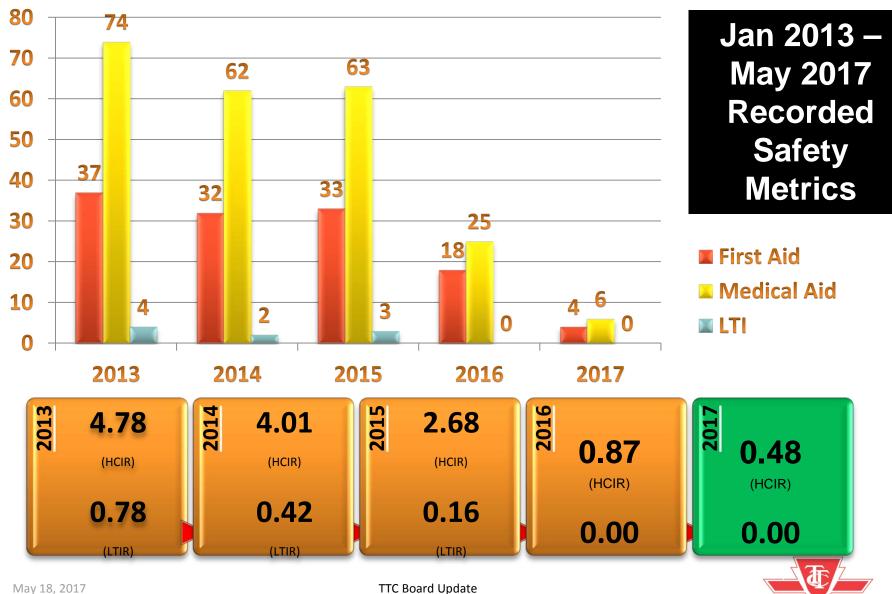


CONTENT

- 1. Safety Performance
- 2. Project Achievements
- 3. Project Progress Facilities and Systems
- 4. Commissioning Status
- 5. Completion Timeline



SAFETY PERFORMANCE



PROJECT ACHIEVEMENTS

- Downsview Park Station Achieved Substantial Performance on Feb 10th
- York University Station Achieved Substantial Performance on Feb 28th
- Vaughan Metropolitan Centre Station Achieved Substantial Performance on March 31st
- Clearance train testing completed March 10/11th
- Traction Power energized March 28th
- First Toronto Rocket travelled on line April 4th



DOWNSVIEW PARK STATION

Achieved Substantial Performance – Feb 10, 2017





PROGRESS STATUS - DOWNSVIEW PARK STATION

Entrances





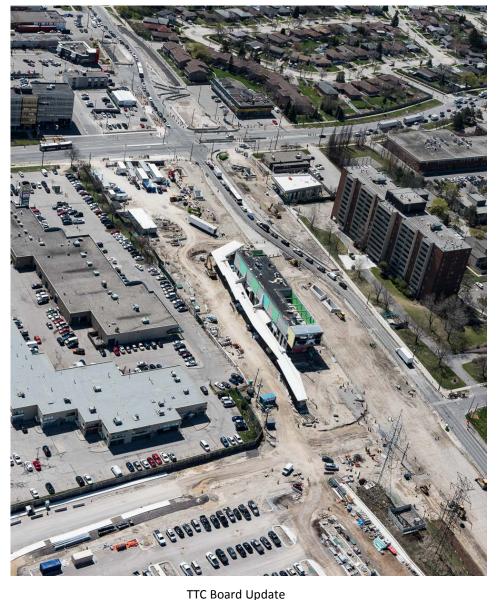


PROGRESS STATUS - DOWNSVIEW PARK STATION





FINCH WEST STATION





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PROGRESS STATUS - FINCH WEST STATION





Main Entrance



Bus Terminal



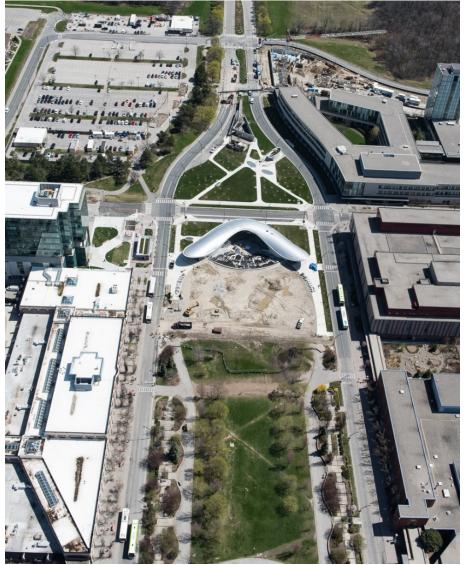
PROGRESS STATUS - FINCH WEST STATION





YORK UNIVERSITY STATION

Achieved substantial performance – February 28, 2017



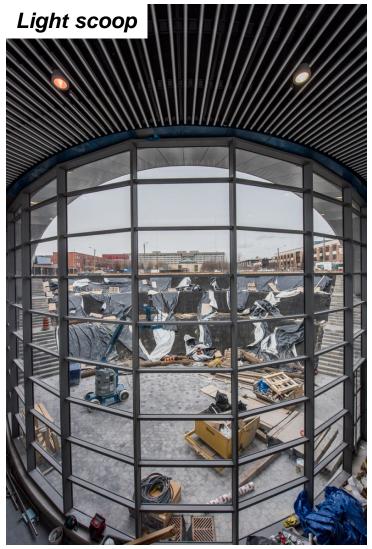


TTC Board Update

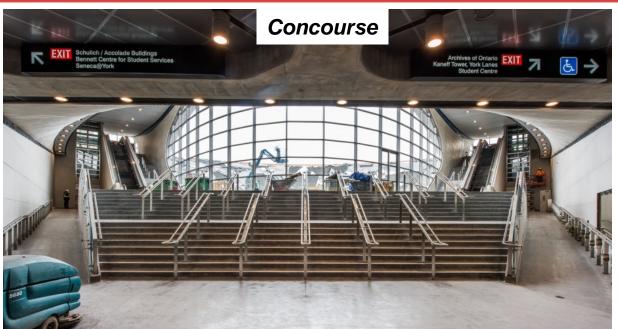
PROGRESS STATUS - YORK UNIVERSITY STATION







PROGRESS STATUS - YORK UNIVERSITY STATION

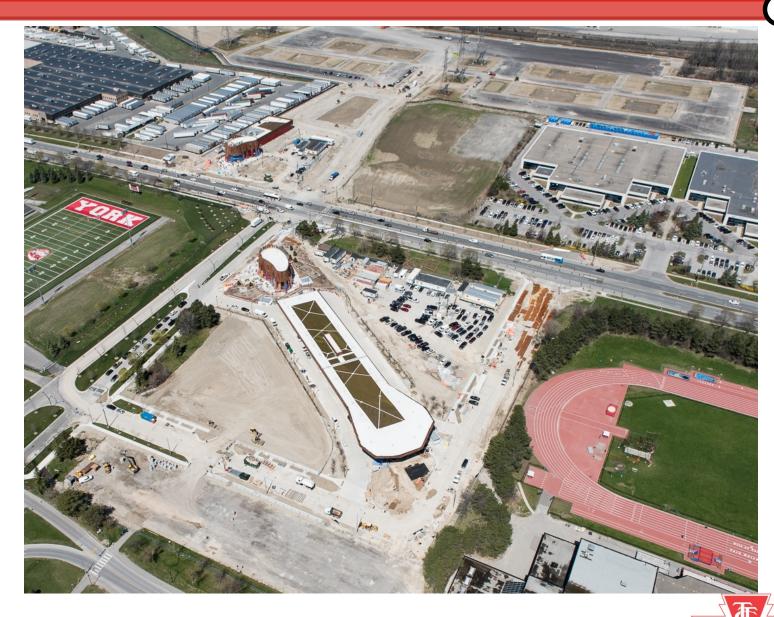




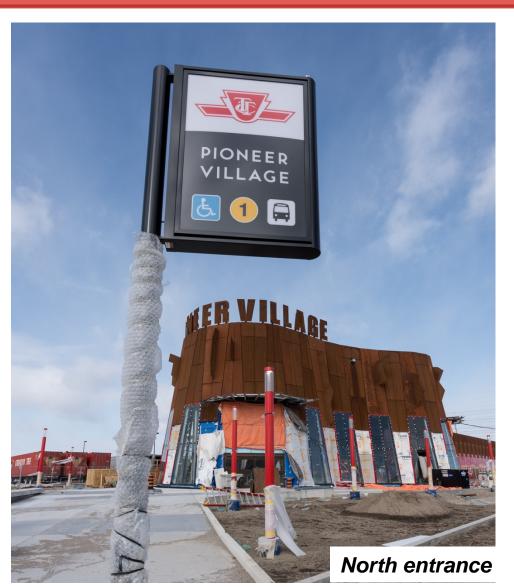


May 18, 2017

PIONEER VILLAGE STATION



PROGRESS STATUS - PIONEER VILLAGE STATION



TTC bus terminal

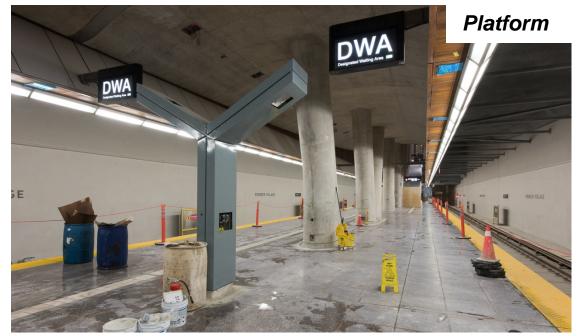




PROGRESS STATUS - PIONEER VILLAGE STATION









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HIGHWAY 407 STATION





PROGRESS STATUS - HIGHWAY 407 STATION



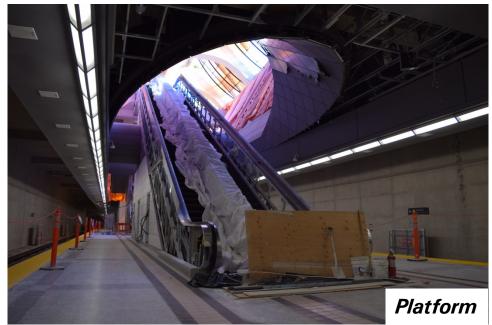




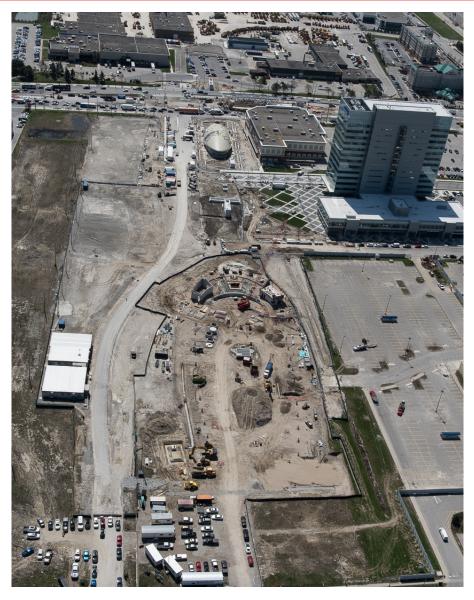
PROGRESS STATUS - HIGHWAY 407 STATION







VAUGHAN METROPOLITAN CENTRE

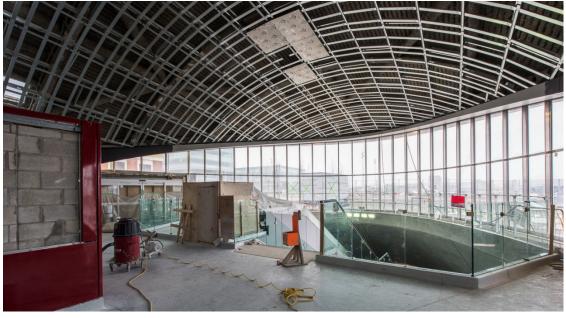




PROGRESS STATUS - VMC STATION

Main Entrance







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PROGRESS STATUS - VMC STATION





Platform



PROGRESS STATUS - VMC

YRT bus terminal connection

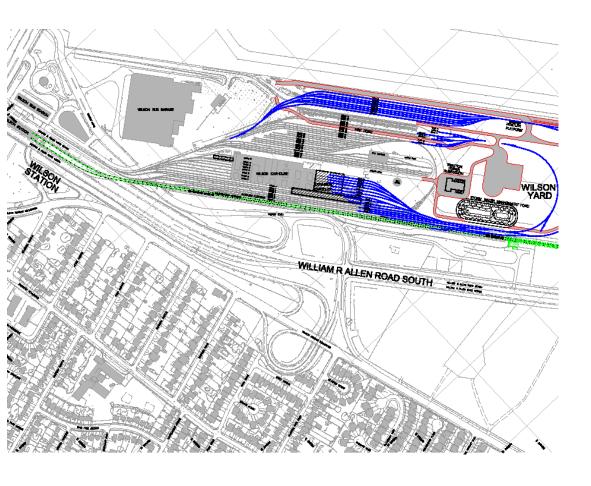








WORK SOUTH OF TYSSE PROJECT LIMIT





PROGRESS STATUS – SYSTEMS

- All 4 power substations energized Providing AC power to subway stations and DC traction power
- Emergency Trip system Installed & operational
- Tunnel equipment & cable installation Complete
- Subway radio system Operational; Connected to Transit Control and to Toronto emergency services
- Backbone fibre optic system Operational; connected to Transit Control
- PAX phones Installed & operational in tunnels; 60% complete in stations
- Pay phones (AODA compliant) 70% installed
- SCADA installation 95% complete in stations
- Public Address, CCTV, Intercom 46% complete

PROGRESS STATUS – SYSTEMS



Finch West Pocket Track
TTC Board Update

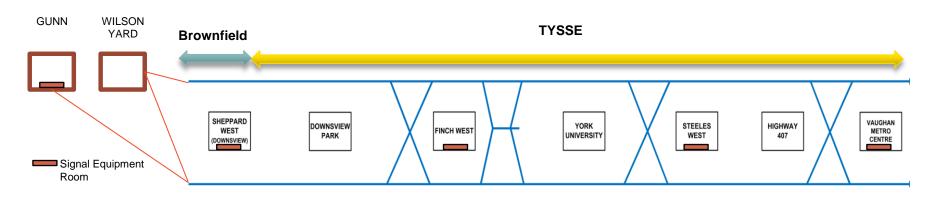


PROGRESS STATUS – SYSTEMS





ATC SIGNAL SYSTEM ON TYSSE (PHASE 2)



ATC PHASE 2 AREA

Total Equipment Installed

- 85 Axle Counters
- **72 TRE's**
- 314 Beacons
 - 39 Signals
 - 19 Switches
- 155 Junction Boxes
- 180 Kilometers of cable
- 30 Kilometers of cable tray
- 3364 Splices
 - 62 Racks

- Completed installation of all equipment on TYSSE and Sheppard West (Brownfield).
- Completed installing equipment racks in all 4 Signal Equipment Room (including Sheppard West).
- Completed installing the Data Communications System fiberoptic, including splicing
- Started slow speed testing with trains on May 2



FACILITY COMMISSIONING STATUS

Station	Assets Commissioned	Assets Remaining
Downsview Park	411	165
Finch West	24	587
York University	364	121
Pioneer Village	35	598
Highway 407	95	551
Vaughan Metro Centre	461	117
Totals	1420	2139





TESTING & COMMISSIONING



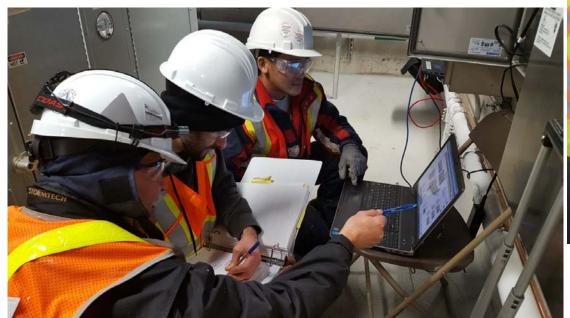
HVAC

Switchboard CX

TESTING & COMMISSIONING

Fire Alarm Verification





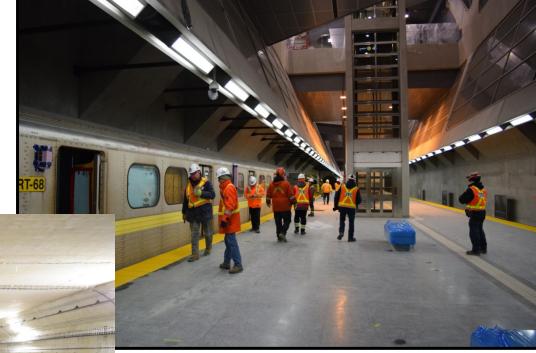






TESTING & COMMISSIONING

Trainway Clearance Train MARCH 10/11 2017





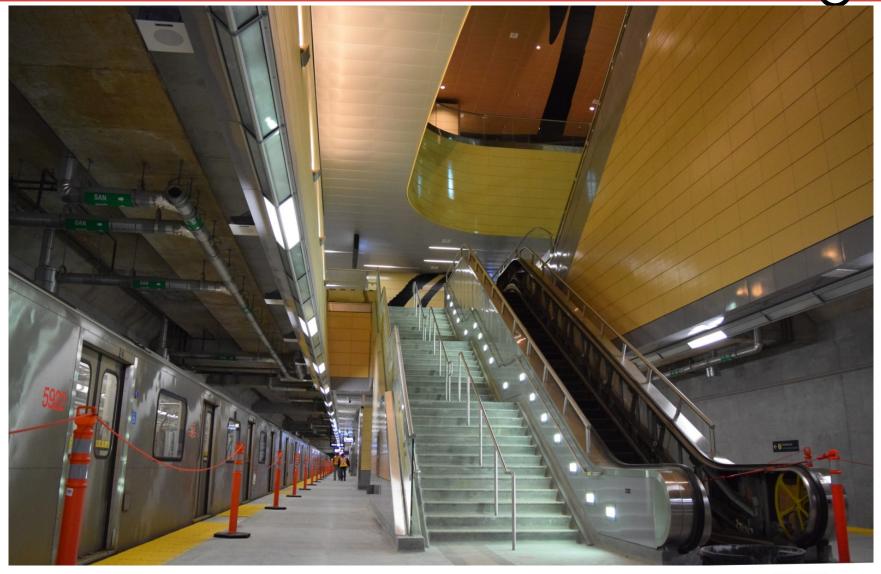
TEST TRACK - TRACTION POWER SYSTEM ON



Danger Sign for Live Power Rails and Moving Trains



FIRST TORONTO ROCKET AT DP





FIRST TORONTO ROCKET AT VMC



COMPLETION TIMELINE - KEY DATES

Completion / Signaling / Commissioning

Operations

2018

Start Low Speed Signaling Software Verification (ATC Project)

02-May-2017

Start High Speed Signaling Software Verification

Mid-Jun 2017

Integrated Subway Ventilation Test

End-Aug 2017

Complete Site Work Start Bus Driver Familiarization

Oct 2017

Start Revenue Service

Dec 2017



28-Mar-17

Track Energized (Test Track Rules)

Early Jun 2017

SCADA Operational Mid-Aug 2017

Last Station Substantial Complete End-Sep 2017

Complete Signaling Site Acceptance Testing Nov 2017

Trial Running / followed by Operations Familiarization

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Questions?

