



## MEMO / NOTE DE SERVICE

To / Destinataire	Mayor and Members of Council	File/N° de fichier:
From / Expéditeur	Director, O-Train Construction Transportation Services Department	
Subject / Objet	O-Train Confederation Line Project Update	Date: October 2, 2018

The purpose of this memorandum is to provide an update on construction of the O-Train Confederation Line project, in follow-up to the presentation provided on September 10, 2018 at the Finance and Economic Development Committee (FEDCO).

### **Overall Progress**

With civil construction continuing, the City continues to monitor and track the progress of critical elements, including Rideau Station. As reported at the September 10 FEDCO meeting, several critical elements are being closely monitored as indicators of progress:

- Rideau Station;
- Multiple trains operating in full Communications-Based Train Control (CBTC) mode along the eastern alignment;
- Vehicle and systems testing along the western alignment, and in the tunnel;
- End-to-end vehicle testing from Blair Station to Tunney's Pasture Station;
- Safety and assurance;
- Supervisory Control and Data Acquisition (SCADA) (system used to monitor and control the LRT) is in full operation; and,
- Full fleet operational testing from Blair Station to Tunney's Pasture Station in full CBTC mode.

On September 11, 2018, a testing milestone was reached when a train completed the first end-to-end run, travelling from Tunney's Pasture to Blair Station.

### **Ongoing Works**

Below is a summary of construction activities, since the September 10, 2018 update to FEDCO.

#### East Stations:

- Landscaping at all stations along the eastern alignment continues;
- Final adjustments to wood ceilings is ongoing; and,
- Remaining work in east stations includes testing and commissioning station systems to achieve the occupancy permit.

#### Underground Stations:

- Rideau Station continues to be a critical building milestone, with significant work remaining;
- Construction hoarding at the east entrance of Rideau Station has been reduced;
- Glazing of elevators and finishing of the street-level east entrance at Rideau Station is ongoing;
- Lighting, hand rails, tiling and ceiling work continue at all entrances to Rideau Station;
- Parts of Rideau Street have been repaved, and streetscaping and utility replacement will begin in 2019;
- Similar to the west stations, finishing works are underway at Parliament and Lyon Stations, including tiling, glazing, elevator cladding and utility cabinet installations;
- Parliament Station construction hoarding at the mid-entrance has been reduced; and,
- Streetscaping along Queen Street between Bank Street to east of O'Connor Street continues to progress with installation of new sidewalks, street lighting, pavers, trees and benches.

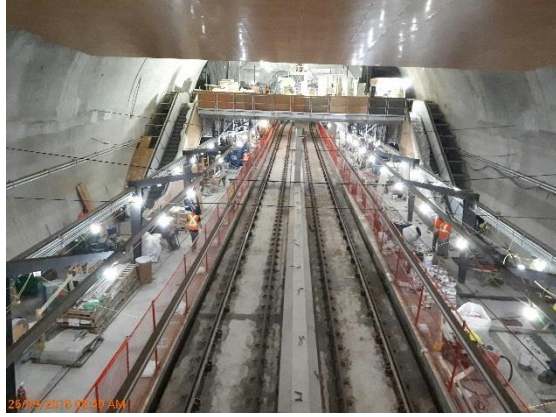
#### West Stations:

- RTG have activated a plan for concurrent testing and commissioning activities while completing the stations;
- Finishing works continue to be underway at the stations on the west alignment; and,
- Progress includes architectural, glazing and other finishing works such as signage installation, public art, fare gates and ticket machine installation.

**Progress Photos of Underground Stations**



**Rideau Station - scaffolding in the tunnel,  
August 28, 2018**



**Rideau Station – scaffolding removed,  
September 26, 2018**



**Parliament Station – ticket machines roughed-in,  
August 28, 2018**



**Parliament Station – ticket machines being installed,  
September 26, 2018**



**Lyon Station - concourse,  
August 28, 2018**



**Lyon Station – concourse,  
September 26, 2018**

### **Train Assembly Update**

- Vehicles are in various stages of retrofit and testing; and,
- As noted at the September 10 FEDCO meeting, the assembly of the remaining vehicles is being closely monitored.

### **Testing & Commissioning**

- Some vehicles are operating under full control of the CBTC system in the east end of the alignment;
- On the western alignment, testing of the CBTC system between Tunney's Pasture and Pimisi Station continues;
- Train movements and testing in the tunnel have started;
- Automatic Train Operation (ATO) is available and in use for the eastern test track; it will be expanded to the western guideway and tunnel sections; and,
- Recently, a train successfully completed a test from Tunney's Pasture to Blair Station; further testing of this nature is ongoing.

### **Communication Systems Testing**

- Testing of the SCADA – a computer system used to gather maintenance and operations information for the entire system – has commenced;
- Installation of safety and security systems including Public Announcement (PA) speakers, Closed Circuit Television (CCTV) and other devices is nearing completion along the western alignment and in the underground stations;
- The alignment is connected to the communications transmission system; and,
- Final installation and system wide testing of the remaining communications devices integrated with the Transit Operation Control Centre (TOCC) is scheduled.

### **Key Activities to Monitor**

City staff continue to monitor the following milestones as indicators toward the completion of the light rail system:

- Rideau, Parliament and west stations;
- Delivery of all vehicles (34);
- Coordination with Building Code Services related to station occupancy permitting;
- Multiple trains must operate in full CBTC mode along the western alignment;
- Vehicle and systems testing along the western alignment and in the tunnel;
- Complete installation and testing of tunnel ventilation systems;
- End-to-end vehicle testing and systems verification (all systems);
- Completion of all customer facing elements, signage, next train announcement system, wayfinding, ticket machines, fare gates, etc; and,
- Full fleet operational testing from Blair Station to Tunney's Pasture Station in full CBTC mode.

City staff continue to monitor and track the project, timelines and key milestones. With regards to the Revenue Service Availability (RSA) date, there is no change at this time from the update provided to FEDCO on September 10, 2018.

Should you have any questions, please do not hesitate to contact me at extension 16623.

*Original signed by  
Steve Cripps*

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