



## MEMO / NOTE DE SERVICE

To / Destinataire Mayor and Members of Council

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From / Expéditeur Michael Morgan  
Director, Rail Construction Program  
Transportation Services Department

Subject / Objet O-Train Stage 2 Light Rail Transit Project  
Quarterly Update (Q2 2022)

Date: August 5, 2022

The following memo outlines the progress made during Q2 2022 on the Stage 2 Confederation Line and Trillium Line extension projects and provides an overview of the planned work for Q3 2022.

### **Stage 2 Confederation Line Project**

#### **Schedule**

- The City is working closely with East West Connectors (EWC) to maintain the Confederation Line extension schedule. The project is on the original timeline in the east for handover in May 2024 but there are significant schedule pressures on the western segment of up to a year. Potential impacts from labour strikes, supply issues and other events in 2022 are still under review.

#### **Design**

- In Q2 2022, City staff continued their review of EWC's designs of specific Confederation Line extension elements, including stations, and the Highway 417 interchanges.
- In Q3 2022, staff will continue the review of design documents for stations and remaining roads packages. The review of other works that will be completed following Substantial Completion, including the Richmond Road Complete Streets and the decommissioning of portions of the Transitway, will continue in 2022. Focus is now on closing open comments on design packages.
- The Stage 2 Confederation Line east and west extensions design is expected to be largely finished by Q3 2022.

#### **Construction – Highlights**

- In Q2 2022, station sub-contractors mobilized at Moodie and Iris stations. Construction continued with structural, mechanical, electrical and plumbing (MEP), and interior work at

Lincoln Fields and Algonquin stations.

- All bridge crossings for traffic and rail in the east are complete and work on the direct fixation track is ongoing. Bridge piers for the pedestrian bridges at Trim and Place d'Orleans stations have been completed.
- The Greens Creek pedestrian bridge structural steel was installed, and construction of multi-use pathway approaches on either side of the bridge is ongoing.
- Noise walls continue to be installed on the north side of Highway 174. Preparation for the south noise walls began in Q2 2022.
- The majority of the 23km of guideway barrier walls and fencing have been completed with the remaining to be completed by the end of Q4 2022.
- Rail installation between Jeanne d'Arc Boulevard and Blair Road is progressing very well. East of Jeanne d'Arc Boulevard to Trim Road is expected to begin in Q3 of 2022. All rail in the east guideway is on track to be completed by the end of Q4 2022.
- Necessary work along Scott Street and Woodroffe Avenue was completed in Q2 2022.
- Structural rehabilitation and preparatory work for new Kichi Sibi and Westboro stations is expected in Q3 2022. In addition, the preparation for the guideway is expected between Algonquin and Lincoln Fields stations.
- Along the Sir John A. Macdonald Parkway, installation of the support of excavation for the cut-and-cover Parkway Tunnel is complete. Excavation and drilling have continued on the western sections of the Parkway cut-and-cover tunnel with significant progress being made at Sherbourne and New Orchard stations.
- The new Iris Street bridge is expected to be commissioned in early Q3 2022, with the final half of the new Carling Avenue bridge expected to be commissioned in late Q3/early Q4 2022.
- At the Moodie Interchange, guideway excavation between the interchange and the Moodie Light Maintenance and Storage Facility (LMSF) is complete, and work is ongoing for the interchange pump station and permanent retaining walls.
- At the western end of the project, all steel is up for the LMSF buildings, with work proceeding inside the buildings.

## **Stage 2 Trillium Line Project**

### **Schedule**

- The Trillium Line schedule is tracking towards a Substantial Completion and handover to the City in summer 2023. The City will continue to closely monitor the Trillium Line schedule and provide updates as further milestones are achieved. Potential impacts from labour strikes, supply issues and other events in 2022 are still under review.

## **Design**

- Staff worked with TransitNEXT in Q2 2022 to continue resolving open comments from design reviews for stations and maintenance facilities.
- Staff reviewed issued for construction (IFC) drawings for the Hunt Club Rail Bridge and the final design submissions for the operational modelling of the system, communication systems design for the Walkley Yard MSF and the retrofit of the existing Alstom LINT vehicles.
- In Q3 2022, staff will continue to review final submissions and closeout comments for all stations, maintenance facilities and common elements packages. Final signage and wayfinding shop drawings for the stations and MSF have also been submitted by TransitNEXT for a final accuracy review by Transit Services.

## **Construction – Highlights**

- Construction of all Trillium Line stations continued, including platform works, utilities work, and structural steel installation throughout the alignment.
- Trackwork is progressing between South Keys and Airport stations and between Bowesville and Limebank stations, including track ties and rail installation. The new Rideau River pedestrian bridge foundation works was completed during the quarter and steel structure installation is planned for early Q3. The remedial works for the existing Rideau River rail bridge are ongoing with rock anchoring of the abutments and bearing replacement ongoing.
- Vehicle testing continued on the test track between Hunt Club Road and Leitrim Road. Preliminary signal testing and verification is planned as part of this test track.

## **Stage 2 Project Vehicles**

- RTG is providing 38 additional Alstom Citadis Spirit light rail vehicles to ensure that the expanded Stage 2 Confederation Line operates as a single, uniform service. To date, eight Stage 2 vehicles have been accepted and are in use as part of the operating fleet.
- TransitNEXT will supply seven Stadler FLIRT vehicles for the expanded Trillium Line, which have now been delivered to Ottawa. The existing Alstom LINT fleet have undergone a retrofit program and are now ready for testing and commissioning.

## **Stage 1 and Stage 2 Contingency Funds**

The Stage 1 Confederation Line contingency fund is \$115 million. To date, \$99.2 million from the total fund has been spent. Remaining funds are earmarked for potential future changes, primarily related to property requirements and transit priorities.

The original Stage 2 contingency fund of \$150 million was increased by \$25 million due to unforeseen costs and improvements to the project, as approved by Council on July 6. Approximately \$132 million of the Stage 2 contingency fund budget has been committed to date.

When funds are reserved for contract variations, the upper cost limit for the variation is used and upon completion of the work, unspent monies are returned to the Contingency Fund. For this reason, the funds reserved figure is an estimate that may be higher than the actual amount spent.

### **Stage 1 and Stage 2 Capital Budgets**

In keeping with Council’s approved 2017 Stage 2 Report (ACS2017- TSD-OTP-0001) and 2019 Stage 2 Report (ACS2019-TSD-OTP-0001), approximately \$2.437 billion has been spent as of June 30, 2022 and relates to the RTG MOU for Belfast Yard and vehicle assembly mobilization (\$385 million), Confederation Line extension mobilization and construction period payments (\$1.185 billion), Trillium Line extension construction period payments and financial close for the Revenue Vehicle Supply Contract (\$475.6 million), and contingency (\$33.4 million). The remaining \$358 million was spent for planning, procurement, project delivery and City retained scope.

The Stage 2 Project Federal and Provincial funding continues to be administered collaboratively by the City and its Federal and Provincial partners in line with the requirements outlined in the respective contribution agreements. For context, Federal claims are submitted quarterly based on eligible costs incurred and paid and Provincial claims are based on payment requirements associated with financial milestones. Stage 2 funding has not been held back and the most recent claims for funding have been approved and funding has been issued to the City.

At this time, the City is awaiting \$60 million from the Federal and \$60 million from the Provincial Stage 1 funding. The outstanding funding is subject to the completion of a final third-party audit of the compliance of the requirements outlined in the project funding agreement and the City’s response to the Ministry of Transportation’s November 2, 2021 letter regarding a request for additional technical information.

<b>June 30, 2022</b>				
Project Description	Authority	Actual Expenditures	Funds Reserved/Committed	Unspent/ Uncommitted
<b>Stage 1</b>				
Confederation Line Program	2,130,000,000	2,127,964,800	2,035,200	-
Contingency	115,000,000	99,152,344	15,847,656	-
<b>Total Stage 1</b>	<b>2,245,000,000</b>	<b>2,227,117,144</b>	<b>17,882,856</b>	<b>-</b>
<b>Stage 2</b>				
Confederation Line Extensions DBF Contract	2,680,832,113	1,185,277,821	1,495,554,292	-

Trillium Line Extension DBFM Contract	810,159,585	475,596,627	196,040,968	-
Deferred Equity (Maintenance Term Repayment)	0	0	138,521,990	-
RTG Stage 2 MOU (includes 38 Alstom vehicles)	516,184,423	385,085,480	130,779,286	319,657
City Costs (includes planning, procurement, property acquisitions, City retained scope, and delivery oversight)*	497,629,108	357,441,668	35,467,158	104,720,282
Contingency*	152,640,000	33,425,603	101,629,366	17,585,031
<b>Total Stage 2</b>	<b>4,657,445,229</b>	<b>2,436,827,200</b>	<b>2,097,993,059</b>	<b>122,624,970</b>

\* Please note that the table above will be updated in the Q3 2022 memo to reflect the July 6, 2022 Council approved increase to the City Costs budget by \$35 million and the project contingency fund by \$25 million.

### **Stage 1 Maintenance Payments**

Further to the payment information provided in previous updates, the City made payments for February to May 2022, reflecting the system performance for January to April 2022, less deductions, as required by the Project Agreement.

The City continues to work through an invoice review to ensure that we meet all of our contractual obligations under the Project Agreement. Invoices under review include the period for October 2019 to January 2020, reflecting system performance from September 2019 to December 2019 and February 2020 to April 2020, reflecting the system performance of January 2020 to March 2020.

The City continues to review and issue payments on other contractual matters pursuant to the Project Agreement.

### **Communications and Stakeholder Relations**

In April, the Stage 2 stakeholder relations and communications team hosted its first media event since December 2020 to celebrate the start of rail installation along the O-Train East Extension. Mayor Jim Watson and Transit Commission Chair Allan Hubley joined representatives from the Government of Canada, the Honourable Mona Fortier, President of the Treasury Board, and Marie-France Lalonde, Parliamentary Secretary to the Minister of Immigration, Refugees and Citizenship and Member of Parliament for Orléans, to mark the milestone.

Artwork from nine Indigenous artists has been installed on Stage 2 LRT construction hoarding to beautify the construction area and increase the visibility of Indigenous art and artists. Participating Indigenous artists submitted culturally relevant images on the theme [Land is Medicine](#). The project was developed in the spirit of the City of Ottawa's Reconciliation Action Plan.

In June, an [Instagram account](#) launched as an additional tool to share project updates and build project excitement and awareness. The posts highlight construction progress and give a behind the scenes look at future transit features.

In Q2 2022, the Stage 2 stakeholder relations and communications team issued:

- 52 public notices
- 12 e-newsletters
- 21 social media posts provided to Council
- 15 Instagram posts
- 6 web articles
- 3 educational videos

Residents are encouraged to subscribe to the Stage 2 LRT newsletter and Stage 2 Instagram to receive progress updates, construction photos and videos and area specific notifications regarding upcoming works.

Residents can subscribe to the electronic newsletters by visiting [ottawa.ca/Stage2Connect](http://ottawa.ca/Stage2Connect). Residents can also follow the Stage 2 Instagram at [@Stage2Etape2](#)

Should you have any questions about the information provided in this memo, please do not hesitate to contact me at extension 52718.

*Original signed by  
Michael Morgan*

c.c. Senior Leadership Team  
Transportation Services Departmental Leadership Team  
Director, Public Information and Media Relations