

# Item 15



**For Action**

## **Subway Closures – 2019 Review and 2020-2022 Forecast**

Date: December 12, 2019  
To: TTC Board  
From: Deputy Chief Executive Officer – Operations

### **Summary**

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The purpose of this report is to provide a summary of the 2019 Subway Closure Plan, including the initiatives implemented to improve service during closures, the proposed schedule for 2020 and outlook for 2021 and 2022.

### **Recommendations**

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It is recommended that the TTC Board:

1. Endorse the 2020 Subway Closure Plan and direct staff to report on changes through the CEO report; and
2. Forward this report to the General Manager, Transportation Services, City of Toronto for information.

### **Financial Summary**

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Funding has been included as part of the TTC's 2020-2029 Capital Budget and Plan Submission, primarily within the Automatic Train Control (ATC) project and various State-of-Good-Repair projects for associated subway closure costs.

As outlined in a report to the TTC Board in November 2013, under the Metrolinx/City of Toronto/TTC Master Agreement, costs associated with any closures for Eglinton Crosstown are to be funded by Metrolinx.

Closure costs are variable and dependent on duration and distance of the closure and the complexity of the work. The cost for each closure is attributed to the operating costs for buses, advertising and staffing, which includes operators, contracted customer service support staff, TTC staff to supervise the closure, paid duty police officers and parking enforcement officers. The average early closure cost is approximately \$40,000 per evening and the average full two day weekend closure cost is \$500,000 per weekend (\$250,000 per day).

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

## **Equity/Accessibility Matters**



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Subway closures result in route diversions and other temporary changes to transit service. These changes may impact access to transit service for various TTC customers, including families, people with disabilities and seniors.

In order to minimize the impact, the TTC provides:

- Scheduled Wheel-Trans vehicles to assist customers to reach an accessible subway station; and
- Accessible low-floor buses are equipped with ramps and a kneeling feature. These buses have route destination signs, as well as automated audible and visual next stop announcements.

The TTC provides advance notification of subway closures and temporary and extended service disruptions and delays to customers via:

- Audible and visual displays on video screens on subway platforms and stations.
- Website postings at [Service Advisories](#), on [Twitter @TTCnotices](#)  and [Facebook](#) .
- Email to customers who registered to [My TTC e-Alerts](#).
- [mywheel-trans.ttc.ca](#) updated with subway closures information when booking a trip.
- Accessible transit stops are marked with blue International Symbol of Access.
- TTC station names are clearly marked on all subway platforms.
- Elevator and escalator crews are stationed at end terminals to ensure all accessible equipment is functional.
- Escalator and elevator disruption information is posted on the TTC website at [Elevators and escalators planned maintenance](#). Status is also available, by calling 416-539-5438 (LIFT), TTY 416-338-0357, or by e-mail at [My TTC e-Alerts](#) (elevators only).

The TTC continues to work to provide a barrier-free transit system, in support of the Accessibility for Ontarians with Disabilities Act's (AODA) for an accessible Ontario by 2025.

[https://www.ttc.ca/TTC\\_Accessibility/Accessible\\_Transit\\_Services\\_Plan/Accessible\\_Service\\_Transit\\_Plan\\_2016/Financial%20Summary.jsp](https://www.ttc.ca/TTC_Accessibility/Accessible_Transit_Services_Plan/Accessible_Service_Transit_Plan_2016/Financial%20Summary.jsp)

All subway closures are extensively planned and co-ordinated to have as little impact on our customers as possible. The TTC takes into consideration the impact each closure has on service levels across the city and how this will affect customer travel patterns. The TTC does its best to minimize the impact on its customers. During the subway closures, the TTC provides various alternate services by:

- Operating shuttle buses along the affected portion of the subway line and servicing closed stations.
- Increasing service on existing routes affected by the subway closure.
- Modifying traffic signals to give priority to the shuttle buses, minimizing traffic congestion and improving shuttle bus efficiency.
- Using Run-As-Directed (RAD) and construction buses along routes impacted by subway closures and surface construction projects (including Eglinton Crosstown construction).
- Employing Toronto Police Paid Duty Officers to assist shuttle buses through busy intersections, as well as Toronto Parking Enforcement Officers to enforce parking restrictions along the shuttle route.
- Staffing stations and shuttle bus stops with supervisory staff and customer service representatives to provide customer information and respond to the needs of customers.
- Staff and customer service representatives are trained on the AODA and the Ontario Human Rights Code in order to respond to the needs of customers.
- Communicating to customers in advance of, and during, all closures through signage, announcements, and media outlets.

It is important to stress that shuttle services cannot fully duplicate the carrying capacity of subway trains.

## **Decision History**

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At its meeting on November 18, 2013, the TTC Board received a report that provided an overview of Metrolinx's Eglinton Crosstown Light Rail Transit Project and summary of the Metrolinx/City of Toronto/TTC Master Agreement. The Master Agreement includes a provision that all costs associated with any closures for Eglinton Crosstown are to be absorbed by Metrolinx.

[Yonge-Eglinton and Eglinton West Interchange Stations – Metrolinx Eglinton Crosstown Light Rail Transit Project – Preliminary Concept Design Approvals](https://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2013/November_18/Reports/Yonge-Eglinton_and_E.pdf)  
([https://www.ttc.ca/About\\_the\\_TTC/Commission\\_reports\\_and\\_information/Commission\\_meetings/2013/November\\_18/Reports/Yonge-Eglinton\\_and\\_E.pdf](https://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2013/November_18/Reports/Yonge-Eglinton_and_E.pdf))

At its meeting on August 19, 2014, the Board received a report that explained the need for, and purpose of, subway closures.

#### [Explanation of Subway Closures](https://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2014/August_19/Reports/Explanation_of_Subway_Closures.pdf)

([https://www.ttc.ca/About\\_the\\_TTC/Commission\\_reports\\_and\\_information/Commission\\_meetings/2014/August\\_19/Reports/Explanation\\_of\\_Subway\\_Closures.pdf](https://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2014/August_19/Reports/Explanation_of_Subway_Closures.pdf))

At meetings on January 18, 2017, November 13, 2017 and April 11, 2019, staff made presentations to the TTC Board on subway closures.

#### [Presentation: Subway Closures - 2016 Year In Review and 2017 Forecast](https://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2017/January_18/Reports/10_Presentation%20Subway%20Closures%20%202016%20Year%20in%20Review%20and%20201.pdf)

([https://www.ttc.ca/About\\_the\\_TTC/Commission\\_reports\\_and\\_information/Commission\\_meetings/2017/January\\_18/Reports/10\\_Presentation%20Subway%20Closures%20%202016%20Year%20in%20Review%20and%20201.pdf](https://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2017/January_18/Reports/10_Presentation%20Subway%20Closures%20%202016%20Year%20in%20Review%20and%20201.pdf))

#### [Subway Closures – 2017 Year in Review and 2018 Forecast](https://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2017/November_13/Reports/10_Subway_Closures_2017_Year_in_Review_and_2018_Forecast.pdf)

([https://www.ttc.ca/About\\_the\\_TTC/Commission\\_reports\\_and\\_information/Commission\\_meetings/2017/November\\_13/Reports/10\\_Subway\\_Closures\\_2017\\_Year\\_in\\_Review\\_and\\_2018\\_Forecast.pdf](https://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2017/November_13/Reports/10_Subway_Closures_2017_Year_in_Review_and_2018_Forecast.pdf))

#### [Subway Closures – 2018 Review and 2019 Forecast](https://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2019/April_11/Reports/20_Subway_Closures_2018_Review_and_2019_Forecast.pdf)

([https://www.ttc.ca/About\\_the\\_TTC/Commission\\_reports\\_and\\_information/Commission\\_meetings/2019/April\\_11/Reports/20\\_Subway\\_Closures\\_2018\\_Review\\_and\\_2019\\_Forecast.pdf](https://www.ttc.ca/About_the_TTC/Commission_reports_and_information/Commission_meetings/2019/April_11/Reports/20_Subway_Closures_2018_Review_and_2019_Forecast.pdf))

## **Issue Background**

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The TTC is committed to providing safe, reliable and efficient service. In order to do so, the TTC performs regular inspections and repairs to its infrastructure nightly at the conclusion of subway service.

Currently, the subway system opens at 6 a.m., six days a week and at 8 a.m. on Sundays, with a closing time between 2 a.m. and 3 a.m. These operating hours result in a small window of opportunity to carry out required maintenance work. On weeknights and Saturdays, TTC staff have an approximate three-hour time frame for work, and from Saturday night into Sunday morning, a five-hour time frame is available. Further, because the nature of the work requires TTC staff to set up work zones and move equipment into the work area, typically less than two hours of physical work can be achieved each night.

The TTC typically uses four types of closures. These include:

**Weeknight Early Closure:** A section of the line is closed early, at 11 p.m. on weeknights, Monday to Thursday. This approach was tried in the fall of 2018 and was fully implemented in 2019 with intention to continue utilizing in 2020 and beyond.

**One Day Weekend Closure:** A section of the line is closed for one day from end of service the previous night to the start of service the following morning.

**Full Weekend Closure:** A section of the line is closed for two days from end of service Friday night to the start of service on Monday morning. One full weekend closure is equivalent to approximately five weeks of night work.

**One Day Late Opening:** A section of the line is closed, usually on a Sunday, for approximately four hours and regular scheduled service begins after 12 p.m.

Two major projects are currently progressing on Line 1 Yonge-University - the ATC Re-signalling project and the Eglinton Crosstown project. These make up the majority of the full weekend closures as the complexity of these projects does not allow for work to be conducted during the regular nightly maintenance window.

Additionally, based on TTC ridership data, there are fewer customers travelling on weekends than weekdays and therefore full weekend subway closures minimize disruption to a greater number of customers.

In 2019, the TTC planned and executed full weekend closures, single-day closures, early closures and late openings, as outlined below.

## **Comments**

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### **2019 Closure Accomplishments**

In 2019, there were 73 planned closures, 31 full weekend closures, six single-day closures, eight late openings and 28 early closures. However, 11 full weekend closures, one single-day closure were cancelled, five full weekend closures were postponed to 2020 and two were rescheduled later in the year. Some of these changes to the original schedule were as a result of the following:

- Cancellations requested by the Eglinton Crosstown project.
- Rescheduling of maintenance/capital activities due to resource limitations to better align with project schedules and work scopes, given the limitations with employee overtime.
- Conflicts with major special events.

In 2019, we continued with the early closure concept where a segment of the subway line was closed early (approximately 11 p.m.) on weeknights, Monday to Thursday. This year the TTC successfully completed 28 weeks of these closures. These early weeknight closures proved successful as they allowed for the extension of the typical maintenance window, which resulted in additional work and repairs to be completed, while minimizing customer inconvenience.

The subway closures facilitated work on all four lines. A significant amount of work was carried out on Line 1 to support the ATC project as noted below (completed to the time of the authoring of this report).

A high-level interim summary of the 2019 closure accomplishments is listed below:

### **Line 1 Yonge-University**

- Successfully completed the following for the Line 1 ATC project:
  - Installed approximately 1,300 metres of cable tray.
  - Installed over 30,000 metres of copper cable.
  - Completed an intensive test program, including more than 1,100 mainline test procedures, which could not be done during normal non-revenue hours.
  - Completed trial operations with operators, subway supervisors and yard control staff, in advance of further ATC commissioning.
- Commissioned ATC milestones to enable the continuous automatic operation from Vaughan Metropolitan Centre to St Patrick stations.
- New installation of two Lawrence rail turnouts renewing the life of the special track work.

### **Line 2 Bloor-Danforth**

- Replaced switch points, stock rails and track frogs, as well as switch plates on the Broadview double cross over, renewing the life of the special track work.
- Major maintenance and removal of expansion and insulated joints, improving reliability of the signal system.
- Replaced more than 5,500 metres of rail at various locations, on both Line 1 and Line 2, where the rail was heavily worn and approaching its end of life.

### **Line 3 Scarborough**

- Upgraded traction power rail along various parts of the line to improve reliability and reduce arcing and excessive wear on the vehicle collector shoes.
- Major maintenance on two track turnouts.

### **Line 4 Sheppard**

- Performed complex maintenance on track switches for improved reliability.

## **2020 Subway Closure Forecast**

In 2020, the TTC will continue to use full weekend and single-day closures, early weeknight closures, as well as late Sunday openings to enable the ATC project, Eglinton Crosstown work and various state-of-good-repair work to progress. Early weeknight closures will only be used from January to June and from September to November to limit disruptions during the summer months.

As of November 5, 2019, per Attachment 1, the following closures are proposed for 2020, but are subject to further change:

### **34 Full Weekend Closures (14- ECLRT, 11-ATC, 9-SOGR)**

Line ① 27

Line ② 6

Line ③ 1

### **18 Single Day Closures (12-ATC, 6-SOGR)**

Line ① 8-14

Line ② 2

Line ③ 2

### **8 Late Sunday Openings (8-SOGR)**

Line ① 0

Line ② 8

### **106 Early Weeknight Closures (24-ATC, 82-SOGR)**

Line ① 86

Line ② 20

For a current schedule of the tentative 2020 closure plan, please see Attachment 1.

## **2021-2022 Preliminary Forecasted Closures**

In both 2021-2022, the TTC plans to continue to use full weekend and single-day closures, early weeknight closures, as well as late Sunday openings to enable the ATC project, Eglinton Crosstown work and various state-of-good-repair work to progress. Early weeknight closures will only be used from January to June and from September to November to limit disruptions during the summer months.

The following closures are tentatively proposed for 2021 and 2022, but will be finalized at the end of the proceeding year, after thorough review of existing work and in correspondence with City of Toronto Planning staff:

### **2021**

#### **26 Full Weekend Closures**

Line ① 23

Line ② 2

Line ③ 1

## **2 Single Day Closures**

Line ① 0

Line ② 0

Line ③ 2

## **8 Late Sunday Openings**

Line ① 0

Line ② 8

## **2022**

### **19 Full Weekend Closures**

Line ① 18

Line ② 0

Line ③ 1

## **2 Single Day Closures**

Line ① 0

Line ② 0

Line ③ 2

## **8 Late Sunday Openings**

Line ① 0

Line ② 8

## **Contact**

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## **Signature**

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Kirsten Watson

Deputy Chief Executive Officer - Operations

## **Attachments**

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Attachment 1 – 2020 Subway Closure Forecast



# ATTACHMENT 1 – 2020 SUBWAY CLOSURES FORECAST

## FULL WEEKEND CLOSURES

DATE	PROJECT	LINE	PRIMARY****	ALTERNATE	BACK UP	FROM	TO
Jan 11/12	Eglinton CTS	1	ECLRT		PCTL	LAWRENCE	ST CLAIR
Jan 18/19	Eglinton CTS	1	ECLRT			LAWRENCE	ST CLAIR
Jan 25/26	Eglinton CTS	1	ECLRT			LAWRENCE	ST CLAIR
Feb 1/2	ATC P5 CON	1	ATC			FINCH	ST CLAIR
Feb 8/9	Eglinton CTS	1	ECLRT			LAWRENCE	ST CLAIR
Feb 22/23	ATC P3B - REV SERV	1	ATC			SPADINA	BLOOR
Mar 7/8	Eglinton CTS and TRK Lawrence DXO 3/4 (turn back DAVISVILLE buildup) **	1	ECLRT	TRACK		SHEPPARD	ST CLAIR
Mar 21/22	ATC P5 CON	1	ATC			FINCH	LAWRENCE
Mar 28/29	Eglinton CTS	1	ECLRT			LAWRENCE	ST CLAIR
May 30/31	SIME Drainage projects	2	SIME			KENNEDY	WARDEN
Apr 4/5	Eglinton CTS and TRK Lawrence DXO 4/4 (turn back DAVISVILLE buildup) **	1	ECLRT	TRACK	PCTL	SHEPPARD	ST CLAIR
Apr 18/19	ATC P4 EG COC	1	ATC			LAWRENCE	ST CLAIR
Apr 25/26	Eglinton CTS	1	ECLRT			LAWRENCE	ST CLAIR
Jun 6/7	ATC P4 DV COC	1	ATC			LAWRENCE	BLOOR
Jun 13/14	Eglinton CTS and TRK York Mills 3 Track X-Over 1/4 **	1	ECLRT	TRACK		SHEPPARD	ST CLAIR
Jun 20/21	Eglinton CTS	1	ECLRT			LAWRENCE	ST CLAIR

DATE	PROJECT	LINE	PRIMARY****	ALTERNATE	BACK UP	FROM	TO
Jul 4/5	*Eglinton CTS and TRK York Mills 3 Track X-Over 2/4 **	1	ECLRT	TRACK	PCTL	SHEPPARD	ST CLAIR
Jul 18/19	Eglinton CTS	1	ECLRT		PCTL	LAWRENCE	ST CLAIR
July 25/26	SIME Drainage projects	2	SIME			KENNEDY	WARDEN
August 15/16	SIME Drainage projects	2	SIME			KENNEDY	WARDEN
Aug 22/23	Eglinton CTS and TRK York Mills 3 Track X-Over 3/4 **	1	ECLRT	TRACK		SHEPPARD	ST CLAIR
Aug 29/30	ATC P4 CON	1	ATC			LAWRENCE	ST CLAIR
Sep 12/13	TRK St George-Spadina C115 Curve (Long-term Fix)	1	TRACK		PCTL	SPADINA	OSGOODE
Sep 19/20	ATC P4 CON	1	ATC			LAWRENCE	ST CLAIR
Sep 26/27	TRK SRT Reaction Rail, Grout Pads, Power Rail and End Inclines	3	TRACK		PCTL	MCCOWAN	KENNEDY
Oct 12/13	SIME Drainage projects	2	SIME			KENNEDY	WARDEN
Oct 17/18	ATC P5 CON	1	ATC			FINCH	LAWRENCE
Oct 24/25	Eglinton CTS and TRK York Mills 3 Track X-Over 4/4 **	1	ECLRT	TRACK		SHEPPARD	ST CLAIR
Nov 7/8	TRK Keele DXO (RSZ required)	2	TRACK	ECE (KEELE)	PCTL	JANE	OSSINGTON
Nov 14/15	ATC P3C - REV SERV	1	ATC			ST CLAIR	UNION
Nov 28/29	AA ATC P3C - REV SERV***	1	ATC			ST CLAIR	UNION
Dec 5/6	TRK Broadview 3 Track X-Over BWs (S-61 WB (T)): FTO	2	TRACK		PCTL	ST GEORGE	WOODBINE

DATE	PROJECT	LINE	PRIMARY****	ALTERNATE	BACK UP	FROM	TO
Dec 12/13	ATC P5 CON	1	ATC			FINCH	LAWRENCE
Dec 19/20	ECE AA	1	ECE			ST GEORGE	ST ANDREW

\*\* Segment extended to share with TTC (If CTS cancels WC, TTC will use it as Weeknight EA). If WCs are rescheduled for Cross Over work, EA closures need to be reschedule together.

\*\*\* Contingency Weekend for ATC cut over

\*\*\*\*Primary Owner

ECLRT – Eglinton Crosstown Light Rail Transit Project

ATC – Automatic Train Control Project

SIME- Subway Infrastructure Maintenance Engineering SOGR Projects

TRACK – Subway Infrastructure Track Maintenance SOGR Projects

ECE – Engineering and Construction – Asbestos Abatement Project

## SINGLE DAY CLOSURES

DATE	PROJECT *****	LINE	DESCRIPTION	FROM	TO
Feb 29	ECE ATC TESTING	1	ATC P3B - REV SERV*	SPADINA	BLOOR
Mar 1	ECE ATC TESTING	1	ATC P3B - REV SERV*	SPADINA	BLOOR
May 2	ECE ATC TESTING	1	ATC P4 DV COC	LAWRENCE	ST CLAIR
May 3	SIME DRAINAGE	2	DRAINAGE PROJECT	KENNEDY	WARDEN
May 9	ECE ATC TESTING	1	ATC P4 DV COC	LAWRENCE	ST CLAIR
May 10	SIME DRAINAGE	2	DRAINAGE PROJECT	LAWRENCE	ST CLAIR
May 23	ECE ATC TESTING	1	ATC P3C - SIT 13	BLOOR	ST ANDREW
May 24	ECE ATC TESTING	1	ATC P3C - SIT 13	ST CLAIR	KING
May 30	ECE ATC TESTING	1	ATC P3C - SIT 13*	BLOOR	ST ANDREW
May 31	ECE ATC TESTING	1	ATC P3C - SIT 13*	ST CLAIR	KING
Jun 7	TTC SOGR	3	TRK SRT Reaction Rail, Grout Pads, Power Rail and End Inclines	MCCOWAN	KENNEDY (SRT)
Aug 8	ECE ATC TESTING	1	ATC P3C - SAT5	BLOOR	ST ANDREW
Aug 9	ECE ATC TESTING	1	ATC P3C - SAT5	ST CLAIR	KING
Aug 15	ECE ATC TESTING	1	ATC P3C - SAT5*	BLOOR	ST ANDREW
Aug 16	ECE ATC TESTING	1	ATC P3C - SAT5 *	ST CLAIR	S KING
Oct 24	TTC SOGR	3	TRK SRT Reaction Rail, Grout Pads, Power Rail and End Inclines	MCCOWAN	KENNEDY (SRT)
Nov 21	TTC SOGR	1	TRK Union Storage Track S37	OSGOODE	KING
Nov 22	ECE AA	1	AA PROJECT	ST GEORGE	ST ANDREW

\*Contingency days for ATC cutover

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ECE ATC TESTING – Engineering and Construction Automatic Train Control Testing  
 SIME DRAINAGE - Subway Infrastructure Maintenance Engineering Drainage projects  
 TTC SOGR - Toronto Transit Commission State of Good Repair Projects  
 ECE AA – Engineering and Construction Asbestos Abatement Project

## LATE OPENING

DATE	PROJECT	LINE	DESCRIPTION	FROM	TO
Apr 5	TTC SOGR	1	(LO) PEV Beam Replacement	ST GEORGE	BROADVIEW
Apr 19	TTC SOGR	1	(LO) PEV Beam Replacement	ST GEORGE	BROADVIEW
May 31	TTC SOGR	1	(LO) PEV Beam Replacement	ST GEORGE	BROADVIEW
Jun 14	TTC SOGR	1	(LO) PEV Beam Replacement	ST GEORGE	BROADVIEW
Jul 12	TTC SOGR	1	(LO) PEV Beam Replacement	ST GEORGE	BROADVIEW
Jul 26	TTC SOGR	1	(LO) PEV Beam Replacement	ST GEORGE	BROADVIEW
Aug 23	TTC SOGR	1	(LO) PEV Beam Replacement	ST GEORGE	BROADVIEW
Sep 13	TTC SOGR	1	(LO) PEV Beam Replacement	ST GEORGE	BROADVIEW

## EARLY WEEKNIGHT CLOSURES

DATE	PROJECT	LINE	PRIMARY	ALTERNATE	FROM	TO
Jan 20-24	(EA) TRK St George-Spadina C115 Curve (Temporary Fix)	1	TRACK		SPADINA	OSGOODE
Jan 27-31	(EA) TRK St George-Spadina C115 Curve (Temporary Fix)	1	TRACK		SPADINA	OSGOODE
Feb 3-6	(EA) TRK BD Line 2-Perth, C44 EB, LR & Tangent	2	TRACK		KEELE	OSSINGTON (BD)
Feb 10-13	(EA) TRK BD Line 2 - Pauline EB C42 High Rail & Rail replacement	2	TRACK		KEELE	OSSINGTON (BD)
Feb 18-20	(EA) TRK Finch Tail Track MM	1	TRACK		FINCH	SHEPPARD
Feb 24-27	(EA) TRK Pre-closure work Lawrence DXO	1	TRACK		SHEPPARD	ST CLAIR
Mar 9-12	(EA) ATC Construction	1	ATC		FINCH	LAWRENCE
Mar 16-19	(EA) TRK University Wye NB, C10	1	TRACK		SPADINA	OSGOODE
Mar 23-26	(EA) TRK Pre-closure work Lawrence DXO	1	TRACK		SHEPPARD	ST CLAIR
Mar 30-31	(EA) ATC Construction	1	ATC		FINCH	LAWRENCE
Apr 1-2	(EA) ATC Construction	1	ATC		FINCH	LAWRENCE
Apr 13-16	(EA) TRK Soft Spot Remediation	1	TRACK		WILSON	ST CLAIR WEST

## EARLY WEEKNIGHT CLOSURES (cont'd)

DATE	PROJECT	LINE	PRIMARY	ALTERNATE	FROM	TO
Apr 20-23	(EA) TRK University Wye SB, C10a	1	TRACK		SPADINA	OSGOODE
Apr 27-30	(EA) ATC Construction	1	ATC		LAWRENCE	BLOOR
May 4-7	(EA) TRK Soft Spot Remediation	1	TRACK		LAWRENCE WEST	ST CLAIR WEST
May 11-14	(EA) TRK Wooden Tie Replacement (composite ties-Bloor to Rosedale BWS)	1	TRACK		ST CLAIR	BLOOR
May 19-21	(EA) TRK Wooden Tie Replacement (composite ties-Bloor to Rosedale BWS)	1	TRACK		ST CLAIR	BLOOR
May 25-28	(EA) ATC Construction and TRK Wooden Tie Replacement	1	ATC	TRACK	LAWRENCE	BLOOR
Jun 1-4	(EA) TRK Pre-closure work York Mills 3 Track X-Over	1	TRACK		SHEPPARD	ST CLAIR
Jun 8-11	(EA) TRK Wooden Tie Replacement (composite ties-Bloor to Rosedale BWS)	1	TRACK		ST CLAIR	BLOOR
Jun 15-18	(EA) ATC Construction	1	ATC		LAWRENCE	BLOOR
Jun 22-25	(EA) TRK Pre-closure work York Mills 3 Track X-Over	1	TRACK		SHEPPARD	ST CLAIR
Aug 10-13	(EA) TRK Pre-closure work York Mills 3 Track X-Over	1	TRACK		SHEPPARD	ST CLAIR
Oct 5-8	(EA) TRK BD Line 2-Pengelly, Birchmount, Tangent Rail	2	TRACK		VICTORIA PARK	KENNEDY (BD)
Oct 13-16	(EA) TRK Pre-closure work York Mills 3 Track X-Over	1	TRACK		SHEPPARD	ST CLAIR
Oct 26-29	(EA) TRK Pre-closure work Keele DXO	2	TRACK		JANE	OSSINGTON (BD)

## EARLY WEEKNIGHT CLOSURES (cont'd)

Nov 2-5	(EA) ATC Construction	1	ATC		FINCH	LAWRENCE
Nov 23-26	(EA) TRK Pre-closure work Broadview 3 Track X-Over	2	TRACK		ST GEORGE	WOODBINE (BD)