

Hurontario Light Rail Transit Project

# Construction Liaison Committee

Mississauga South

January 2022



# LAND ACKNOWLEDGEMENT

Let us take a moment to acknowledge that we are on the traditional territory of Indigenous Peoples including the Anishnabeg, the Haudenosaunee and the Wendat peoples.

We are all Treaty people. Many of us have come here as settlers and immigrants... in this generation or generations past.

Metrolinx declares its commitment to building meaningful relationships with Indigenous Peoples.

We acknowledge we have a responsibility to recognize and value the rights of Indigenous Peoples and conduct business in a manner that is built on the foundation of trust, respect and collaboration.

We acknowledge the historic and continued impacts of colonialization, the many broken promises and Treaties, and the need to work towards reconciliation with the original caretakers of this land... today and for future generations.

# OUR MANDATE

The Construction Liaison Committee is a communications forum to provide open, two-way communication and dissemination of information with stakeholders, elected officials, area residents and businesses related to construction for the Hurontario Light Rail Transit Project including construction activities, short- and long-term impacts, steps being taken to address impacts and community engagement and outreach.

# AGENDA: January 2022

Welcome & Introductions

Safety Moment

Action Items

Construction Progress

Construction Update Mississauga South

Community Engagement

Round Table Discussion



# **Safety Moment**

# EXCAVATION & TRENCHING

Excavations and trenches over 2.4m or 8ft in depth must be protected by a barrier 1.1m (4.2ft) high if proper sloping cannot be achieved

Where excavations / trenches are near public ways, other considerations must be applied:

- Fencing of adjacent sidewalks, including signage warning of the hazards
  - "Danger due to Excavation/Fall Hazard"
- Fencing / signage and protection for off hours around the entire area
- Temporary concrete barriers where workers are exposed to traffic hazards
  - (i.e. high-speed areas or locations with hazards such as curves/bends, poor line of sight)

## Access / Egress

- Ladders must be placed and secured within the excavation
- Rescue plans must be established prior to workers entering
  - i.e. davit arm with harness or rescue basket
- Tools / materials should be sent in prior to workers entering to avoid dropped objects and promote 3-point contact if required to enter via ladder



# Action Items

# FOLLOW UP ITEMS

1. Request for time capsule from schools for community; re: project, life in a pandemic, etc
  - After investigation area being built is future LRT lanes, roadway and sidewalk. Time capsules could not be retrieved.
  - Exploring a partnership with the cities to have time capsules buried at local schools or on municipal land.
2. Inquiry regarding upcoming community benefits in the new year.
  - Community Engagement will plan an off-season food drives, along with donating their time once restrictions lift.
3. Request for worker safety video to include in Transit In Your Community Presentations.
  - Mobilinx is building out a safety edition of "where is waldo" as a component of TIYC presentations.



# Construction Progress

# COMPLETED CONSTRUCTION

## Corridor Wide

- ✓ 73 concrete Hydro poles and 22 km of aerial conductor cables installed along the corridor.
- ✓ 7.5 km of watermain, sanitary and stormwater installed throughout the corridor.
- ✓ 90% of temporary traffic signals completed along the entire corridor.
- ✓ Traffic speed limits have been reduced from 80 km/h to 60 km/h along Hurontario Street, between HWY 407 and HWY 401.

## Mississauga North

- ✓ Utility relocations and new curb construction complete on the east side of Hurontario. Traffic has flipped to the west side between Matheson and Britannia.



## HURONTARIO LIGHT RAIL TRANSIT PROJECT 2021 CONSTRUCTION MILESTONE



**73**

Concrete hydro poles installed



**22,000m**

Aerial conductor cable installed



**36,000m<sup>3</sup>**

of earth (soil & rock) removed from Port Credit



**285,900 tonnes**

Total amount of backfilling done at OMSF



**27**

estimated tonnes of greenhouse gas emissions reduced through virtual training and onboarding



**Over 10,000**

Inspections conducted throughout the Project, between, safety-quality and environment



**Nearly 8,000**

task hazard assessments (THA's) and work plans created for site activities



**7.5km**

of watermain, sanitary and stormwater installed



**29**

fire hydrants installed



Delivery of Rails to OMSF in  
Brampton South



Utility Relocations in Mississauga North



Temporary Traffic Signal  
Installations in Mississauga  
Centre

# ONGOING CONSTRUCTION

## Corridor Wide

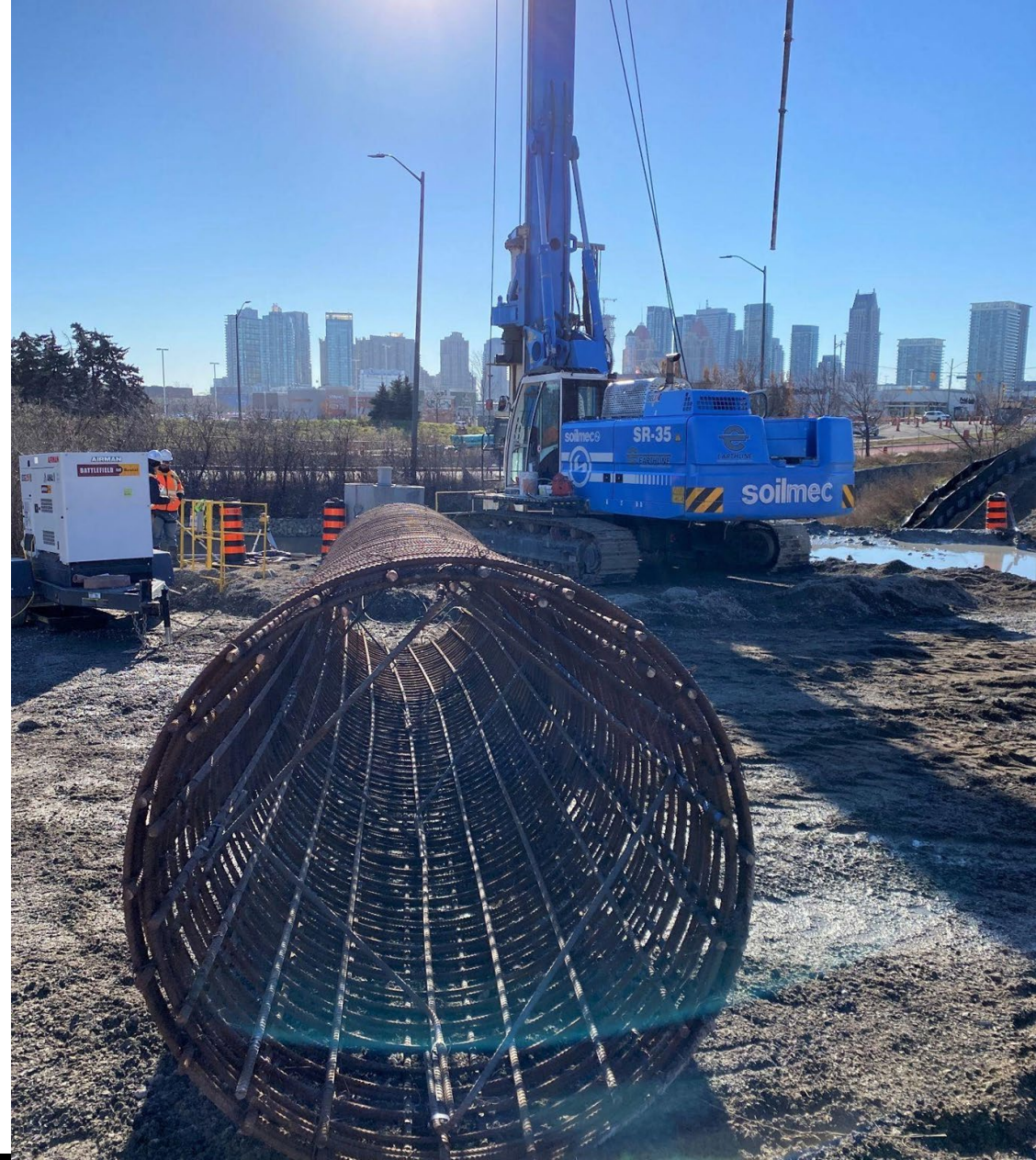
- Installation of sanitary, watermain, storm, and sanitary

## Mississauga North

- Construction of foundations to build elevated guideway on Rathburn Road West Mississauga North
- Trenching for permanent streetlights (poles) Matheson and Britannia
- Installation of underground duct banks and catch basins between Matheson and Britannia on the east
- Road widening and curb installation
- Hwy.401 underpass bridge rehabilitation

## Brampton South

- Installation of new utilities, mechanical, and electrical infrastructure - OMSF



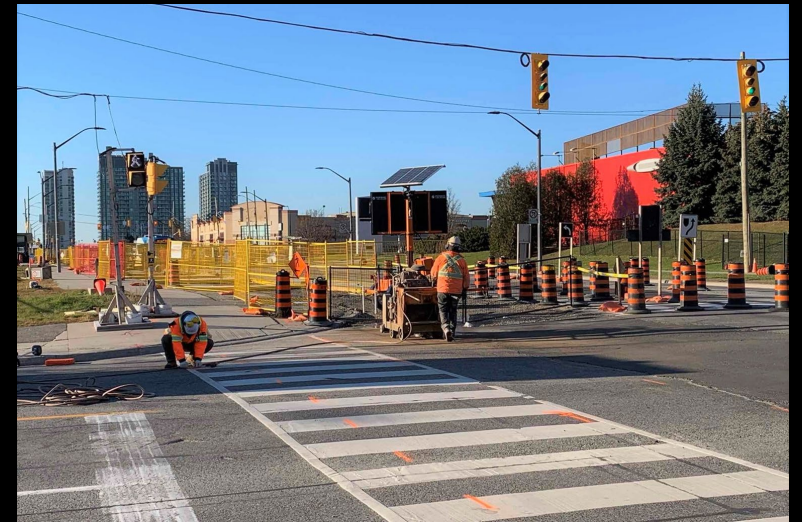


Road Widening in Mississauga North

Hurontario LRT



Water Main Installation in Cooksville



Saw cutting asphalt for Water Main installations in Mississauga Centre (Rathburn Road)

 **METROLINX**

# UPCOMING CONSTRUCTION

## Cooksville

- Storm line relocation to begin between Mathews Gate and Dundas Street.
- Hydro relocations to begin followed by relocation of telecommunication infrastructure.

## Mississauga Centre

- Watermain and storm line relocation work to start along Hurontario at Robert Speck Parkway, moving north.
- Excavation and concrete pour for elevated guideway piers and abutments.

## Mississauga North

- Alectra relocations, road widening, and new curb installations continue between Matheson and HWY 401.

## Brampton South

- Preparation for staging on both sides of Hurontario Street between Bartley Bull Parkway and Brampton City Limits.
- Wet Utilities set to begin once traffic staging is complete (watermain, sanitary and storm) for Hurontario and Kennedy Road.
- Installation of guideway, tracks, and OCS poles at OMSF





Construction Activities at the OMSF Facility on Kennedy Road, Brampton

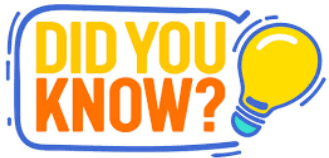
# KEEPING THINGS ON TRACK: RAIL FACTS

## Key Metrics:

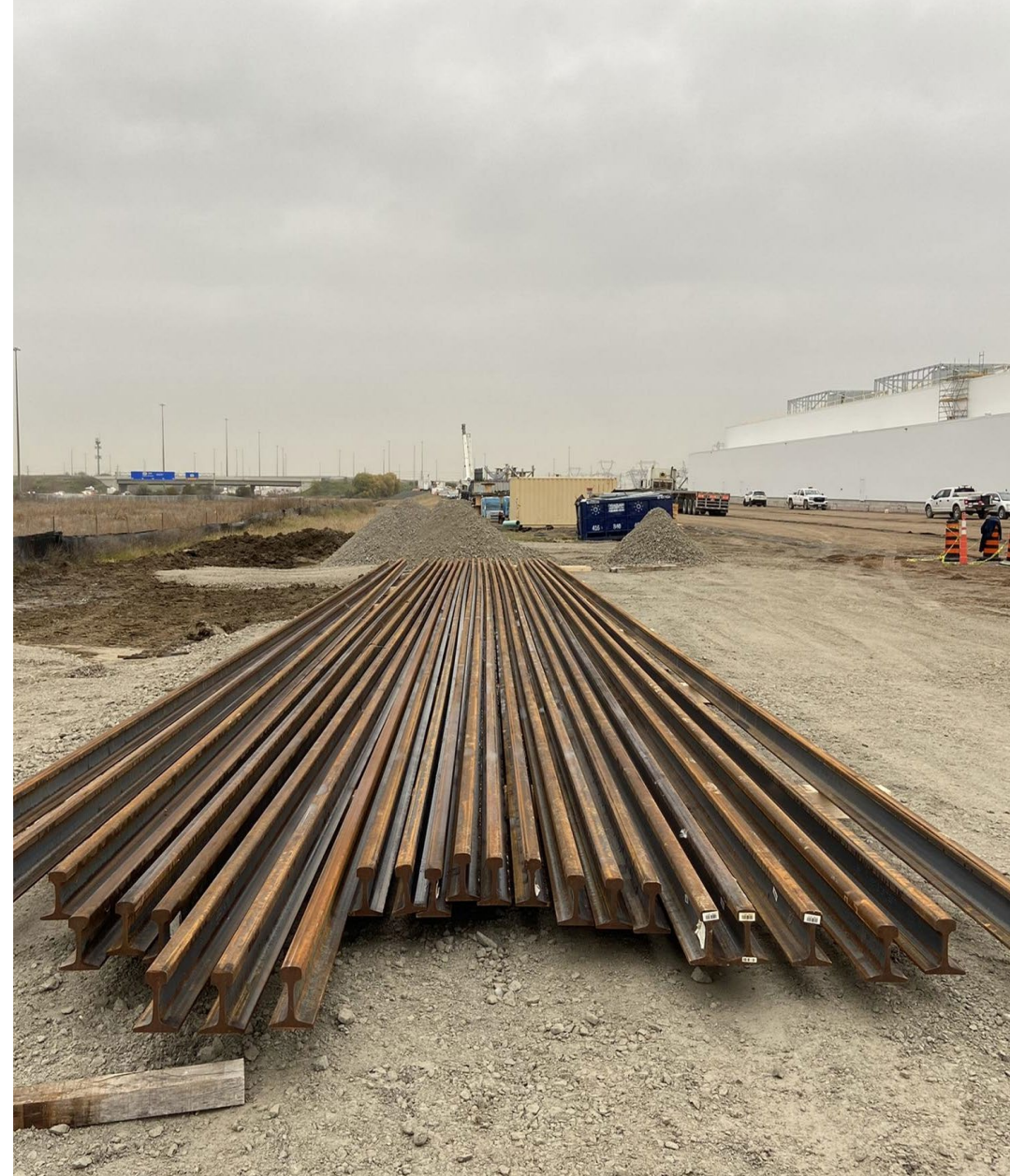
Once complete, the entire project will use:  
89 km rail weighing approximately 5000 metric tonnes  
55,000 Monoblock and Twin bloc ties  
32 km of Rail Encapsulation  
13,000 metric tonnes of rail ballast  
47,000m<sup>3</sup> Guideway Concrete

## Deliveries:

120 segments of rail have now been delivered to the OMSF and 360 to the laydown area adjacent to Cooksville GO.  
Each segment of rail is 25m in length!



Fun Fact! The first pieces of rail will be installed at the Operations Maintenance and Storage Facility with in the next few months!



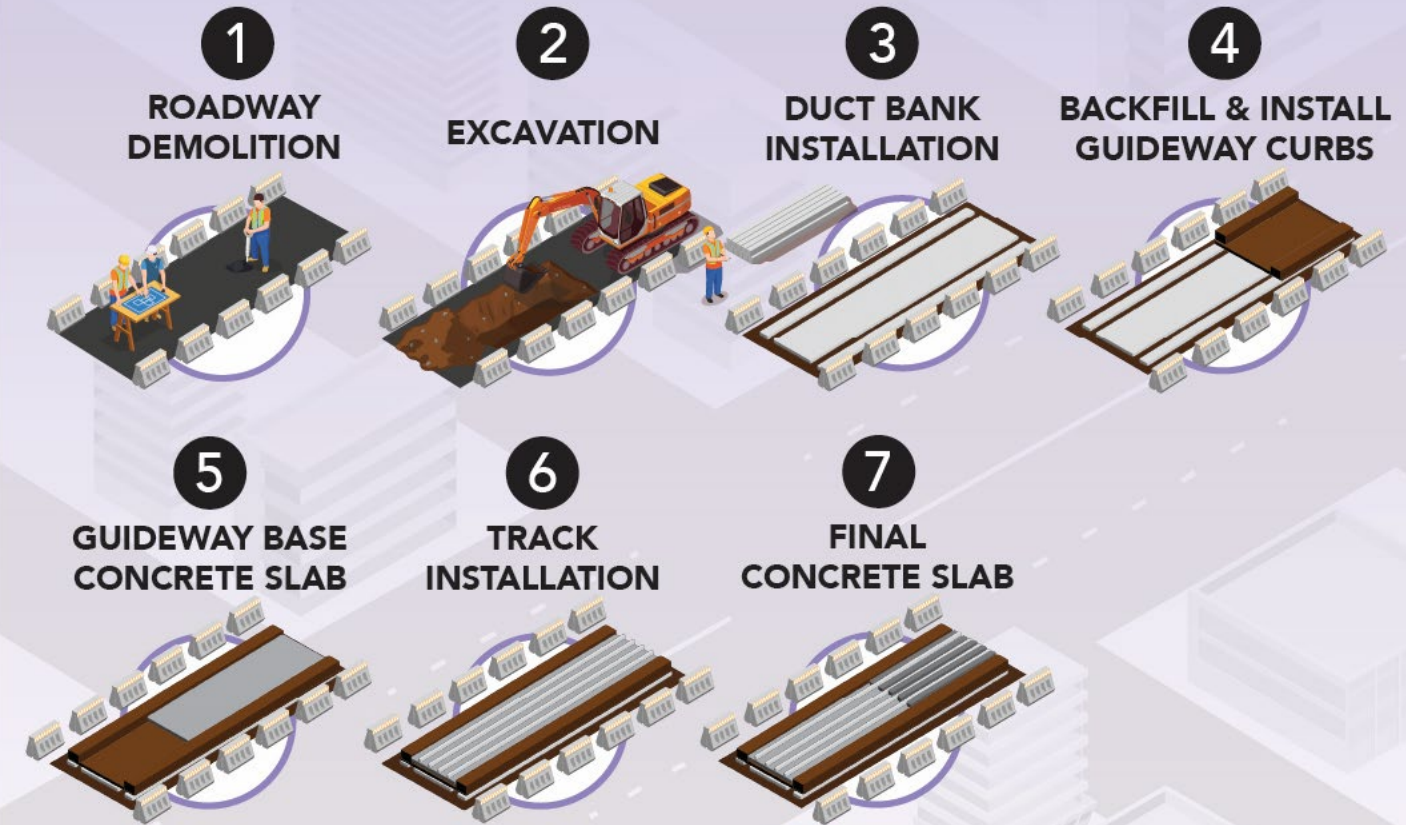


# HOW TRACK IS INSTALLED

Installing tracks along the roadway isn't as easy as affixing rails to the ground. Crews first need to dig the roadway up, then dig down as deep as five feet before installing the foundation of the guideway.

Once foundation is installed, the guideway will be backfilled and topped with a concrete slab followed by installation of tracks.

## GUIDEWAY CONSTRUCTION



# CONSTRUCTION AT NIGHT

Some critical construction tasks can only be safely completed at over night.

Pictured to the right is work to rehabilitate the 401 underpass. You can see crews working under the overpass to ensure that the bridge can support future traffic, along with two lanes of light rail transit.

To complete this work, the underpass is closed between 8pm and reopened to traffic at 6am.

Doing this work at night minimizes the impact to heavier volumes of daytime traffic trying to access highway 401.

This work is completed in phases (northbound, southbound, and centre guideway). Crews are currently working on rehabilitating the northbound section that is expected to be completed in April with the remaining phases expected to be complete by June. These works are planned in coordination with MTO and are weather dependent.



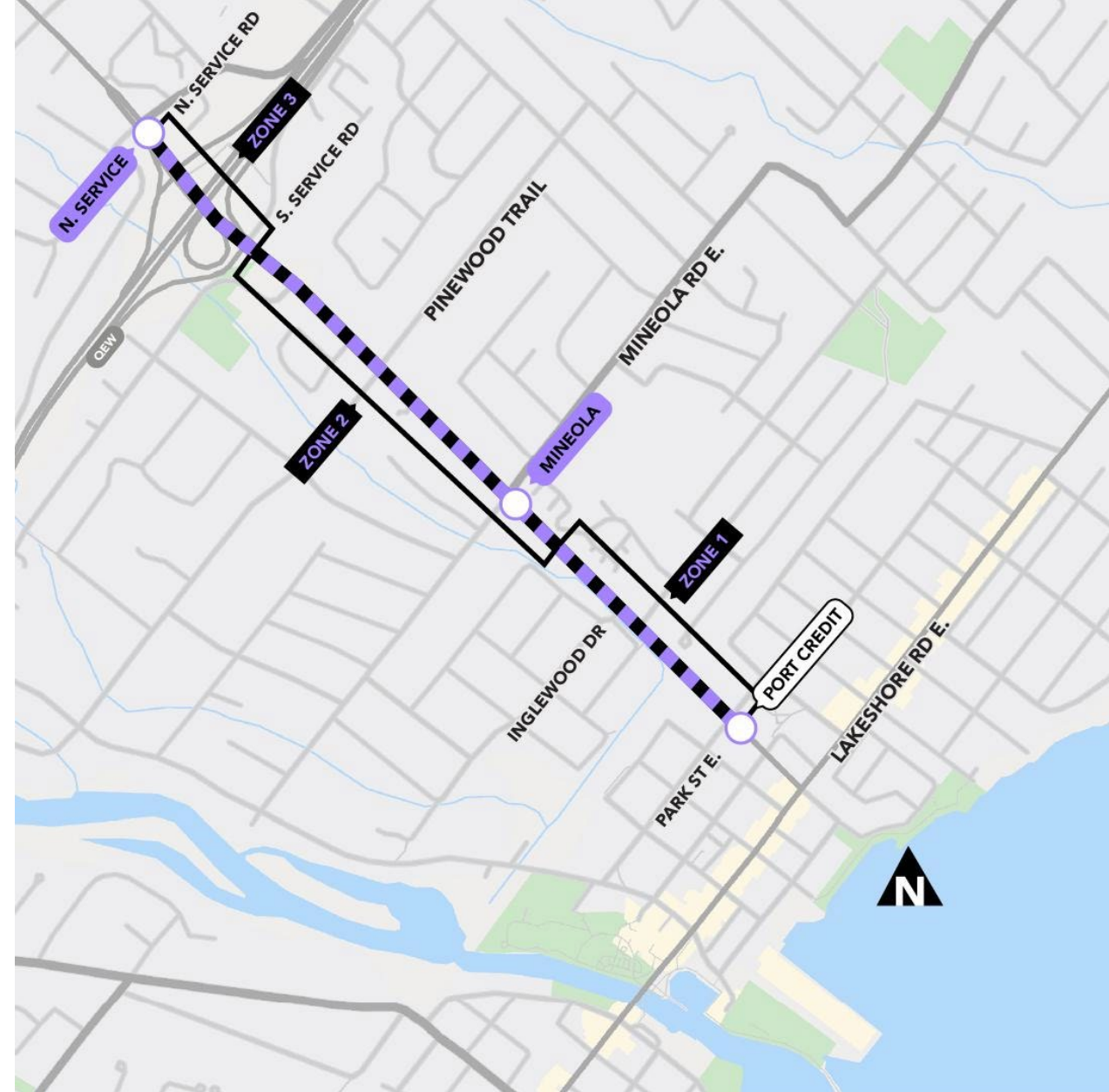
# **Mississauga South Update**

# MISSISSAUGA SOUTH WORK ZONES

Work Zone 1 - Park Street to north of Inglewood Drive

Work Zone 2 - Inglewood Drive to QEW South ramp

Work Zone 3 - QEW South ramp to QEW North ramp (Harborn Road)



# CONSTRUCTION PROGRESS

## Completed

*Work Zone One* (Park Street to north of Inglewood Drive)

Sanitary - 80% of work has been completed

Watermain - 25% of work has been completed

## Ongoing

- Alectra, sanitary lines and watermain relocation work.
- This work includes the “betterment” or improvements of these lines to help deliver reliable service to a growing community.

## Upcoming

- Utility relocations will continue with the addition of works to relocate telecommunication and storm lines.



# PORT CREDIT STATION

## Completed

- Caisson wall and shoring for support during excavation
- Excavation to service level is 93% complete with 28,830m<sup>3</sup> of soil/rock removed so far
- Excavation of service level sump pits for waterproofing

## Ongoing

- Excavation and tieback installation on the south side of the station is ongoing

## Upcoming

- Prep works for service level construction including:
  - Rock Anchors Installation
  - Waterproofing
  - Rebar Installation
  - Mechanical and Electrical embedded services installation
  - Pouring of concrete



# LAKESHORE WEST PUSH BOX

## Completed

- With the roof slab of the Push Box structure recently poured, construction of the structure is complete and will serve the tunnel underpass for LRVs to travel underneath the Lakeshore West Rail Corridor.

## Ongoing

- Micropiling activities are ongoing and will continue into February.
- Micropiles stabilize the earth underneath the railway corridor in advance of installing the Verona System on the rail tracks.

## Upcoming

- The Verona System is a patented temporary bridge system that will be installed to support the Lakeshore West rail tracks as the Push Box structure is pushed underneath.





Hurontario LRT



# MARY FIX CREEK UPDATE

## Completed

- Concrete for deck of West Bridge poured and connected to North Flood Wall at Mary Fix Creek. This completes the structure and it expected to open to pedestrians once cured

## Ongoing

- Pouring concrete for the creek channel, north, and south flood walls
- The concrete channel will be completed up to the east bridge by the end of February.

## Upcoming

- Demolition of the east pedestrian bridge and the installation of piles to construct the new bridge.



# Communications Engagement

# COMMUNITY CANVASS

The Fall 2021 canvass focused on reaching out to local businesses and transit riders at our temporary bus platforms. The purpose of this canvass is to find out how we can support businesses and commuters through construction.

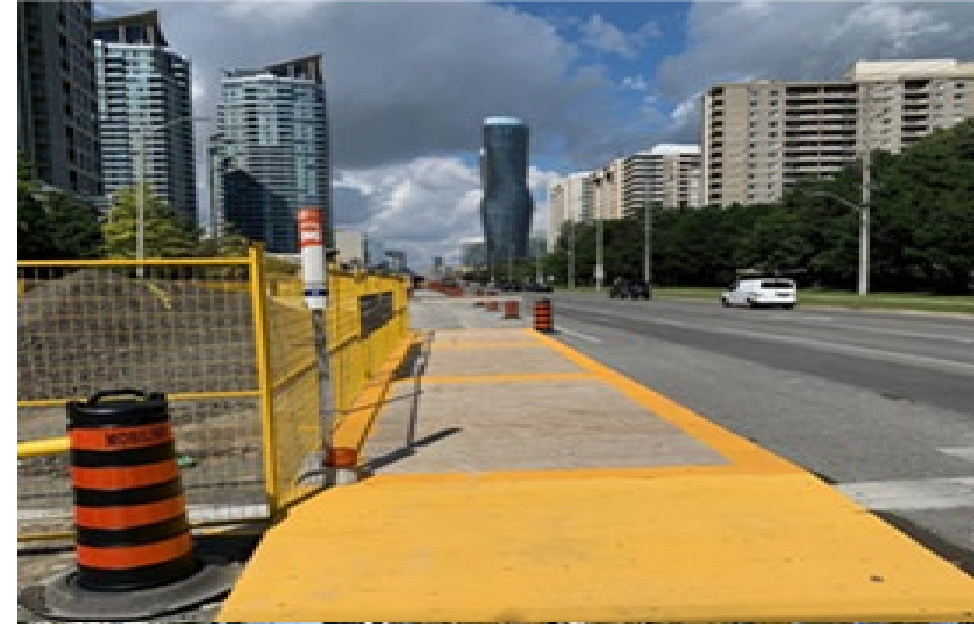
## Fall Canvass by the numbers

### Transit User Survey

- 89% of the respondents said they are satisfied with the safety and accessibility of temporary bus platforms
- 47% of respondents said they use their bus stop every day

### Businesses

- 61% of the respondents said they use e-commerce platforms to sell their products
- 18% of the respondents said they would be interested in attending free online workshops on business development



# COMMUNITY SUPPORT: ANGEL TREE

Metrolinx and Mobilinx engaged in collecting donations for the Holiday Wishes Program in support of the Peel Children's Aid Society (deadline December 8th, 2021, with additional drop-offs directly to PCAS offices)

The Peel Children's Aid Society is an agency that works with the community in supporting families facing difficult challenges. The Peel Children's Aid Foundation (PCAF) was created to raise funds for essential programs not funded by the government.

The PCAF's Holiday Wishes Program brings holiday joy to vulnerable children, youth and families. Participants were encouraged to purchase essential items for families in need such as toys, grocery gift cards, baby supplies and toiletries:

- This year an additional 120 families will be supported by the donations, contributing to approximately 1200 families in total
- The foundation requires donations year-round to help support families, kids in care, youth in care and youth aging out of the system.



# COMMUNITY ENGAGEMENT

## Questions?

Ask us at [metrolinxengage.com](https://metrolinxengage.com)  
Or contact us by phone, email, or on social media.

Stay up to date with Metrolinx projects in your region!  
[Metrolinx.com/peel](https://Metrolinx.com/peel)



## Hurontario LRT Community Offices

Phone: [416-202-7500](tel:416-202-7500)

Email: [peel@metrolinx.com](mailto:peel@metrolinx.com)

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Mississauga, ON. L5B 4M4

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# Round Table Discussion



# APPENDIX A: GLOSSARY OF CONSTRUCTION TERMS

Term	Definition
<b>Culvert</b>	Culverts are small channels that allow water to run under a road or railroad structure.
<b>Wet Utilities</b>	Examples of wet utilities are sanitary, storm water (rainwater), water main (potable water, fire hydrants)
<b>Dry Utilities</b>	Examples of dry utilities are power, underground conduits, fiber optics (telecommunications).
<b>Guideway</b>	The guideway is the structure the LRVs will operate at the HWY 403 crossing. This includes steel tracks, the concrete pads for tracks, and OCS poles. The elevated guideway is a structure with tracks raised above the street level, and civil works for the guideway includes anything below the grade of the guideway (duct banks for electrical cables, drainage etc.)
<b>Roads, Curbs, Sidewalks</b>	This involves preliminary works including drainage, catch basins, temporary paving, new curbs, sidewalks, and boulevards etc. Final paving and reinstatement occur as a part of the final landscaping and design package.
<b>Push Box</b>	An innovative method which uses hydraulic jacks & spreaders to move a cast-in-place concrete box carrying the entire underpass in a short period of time. It causes minimal disruption to surrounding traffic.
<b>RSS/Retaining Wall</b>	Retained Soil Systems Wall. The purpose of this wall is to retain soil in order to protect a change in grade.
<b>Track works</b>	Track works are at grade.



# APPENDIX A: GLOSSARY OF CONSTRUCTION TERMS

Term	Definition
Hydro Duct Bank	A grouping of hydro cables buried underground or encased in concrete.
Flood Wall	A wall built to prevent inundation by high water.
Caisson Wall	Caisson (or secant) walls consist of drilled holes filled with concrete that forms continuous arrays of interlocking shafts that are periodically reinforced with vertical steel piles to create an excavation support system..
Staging	Staging indicates the set-up of fenced off work area and installation of temporary bus platforms as required on the corridor.
Pole	A structure used to support overhead lines.
OMSF	OMSF stands for Operations, Maintenance and Safety Facility of the Hurontario LRT. It is located just south of Hwy.407 at the border of Brampton and Mississauga.
Girder	A girder is a horizontal support beam used to strengthen bridges and other structures.
TPSS	TPSS stands for Traction Power Substation. They ensure a consistent level of power to the Light Rail Vehicles.
French Drainage System	The French Drainage System consists of a trench filled with gravel or rock or pipe to divert water away from an area. It is used to prevent water damage to building foundations. This will be installed at the OMSF site.