

# **Ontario Line**

**Thornccliffe Park, Flemington Park  
Science Centre, and Maintenance  
and Storage Facility**

## Agenda

- Land acknowledgement
- Safety moment
- Introduction to panel
- Presentation
  - About the Ontario Line project
  - Ontario Line features and station locations
  - Maintenance and storage facility location and timelines
- Q&A

## **Land acknowledgement**

Metrolinx wishes to recognize that it operates on the traditional territories of the Anishnabeg, the Haudenosaunee and the Wendat Peoples.

In particular, we acknowledge that the Ontario Line project takes place on Treaty 13 territory with the Mississaugas of the Credit First Nation.

We acknowledge that Metrolinx operates on these lands and has a responsibility to work with the original keepers of this territory and the many diverse Indigenous Peoples living here today.

Metrolinx remains committed to engaging with Indigenous Peoples and Nations on the Ontario Line project.

## Safety moment

18 or older? 

Live in M4H or M3C? 

You are eligible! 



**Protect yourself.  
Protect others.  
Get vaccinated.**



MGH / TEHN   
@MGHToronto

Over the last week, [@ETHPnews](#) ran six mobile pop-up vaccine clinics, administering 4,168 doses to those living in neighbourhoods disproportionately affected by [#COVID19](#). This brings our total doses administered last week to 17,300. [#TeamToronto](#) [#TeamVaccine](#) 1/2



11:01 AM · Apr 12, 2021 · Twitter Web App



## Introduction to panel



Sivahami  
Vijenthira

Community Relations  
Specialist (Moderator)



Richard  
Tucker

Ontario Line  
Project Director



Malcolm  
MacKay

Ontario Line  
Project Sponsor



Quang  
Pham

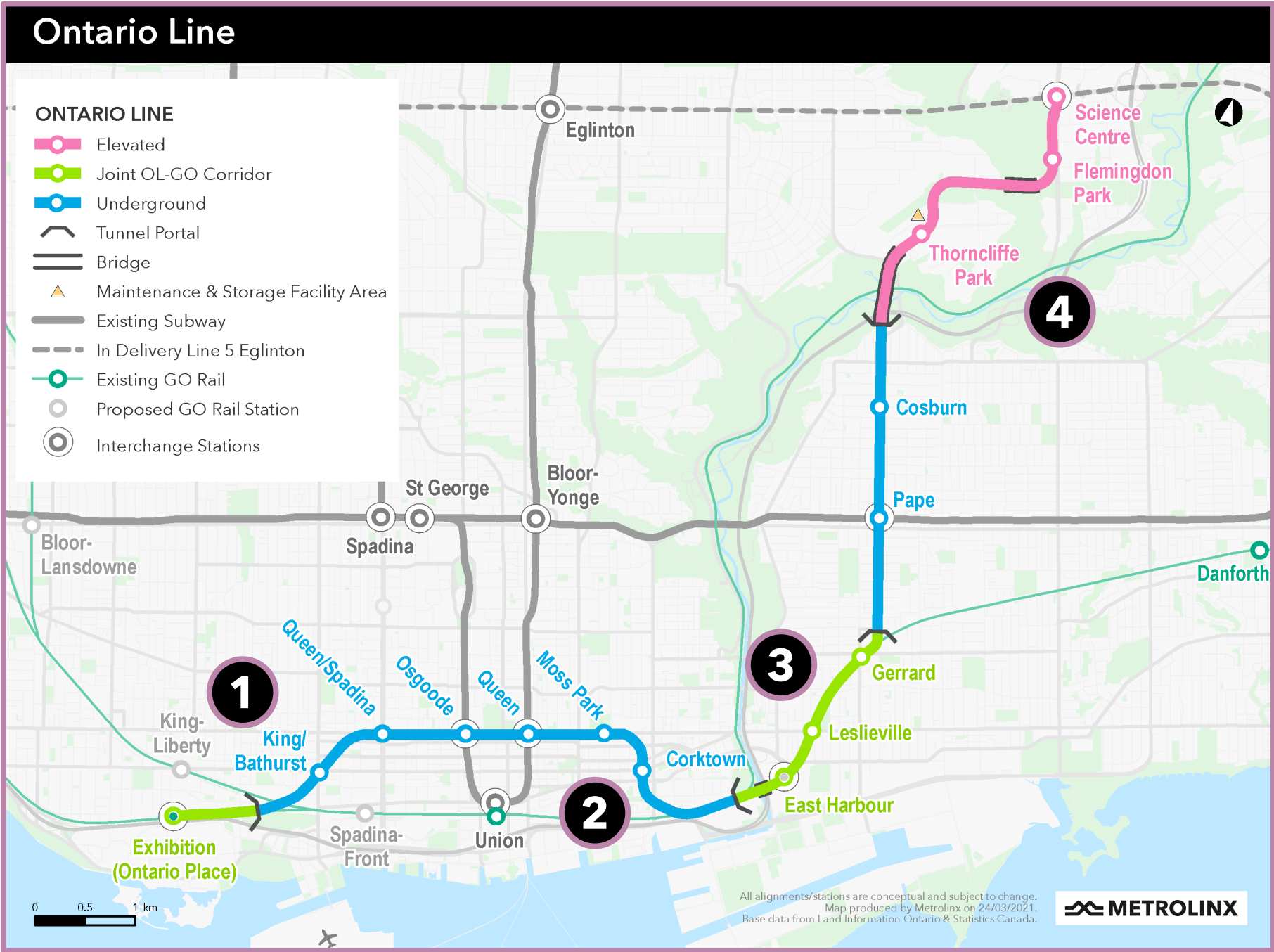
Manager,  
Property Team



James  
Francis

Manager,  
Environmental  
Programs and  
Assessment

# The Ontario Line



**1 West**  
(Exhibition to Queen/Spadina)

**2 Downtown**  
(Osgoode to Don Yard)

**3 East**  
(East Harbour to Pape South)

**4 North**  
(Pape to Science Centre)



15.6 kilometres



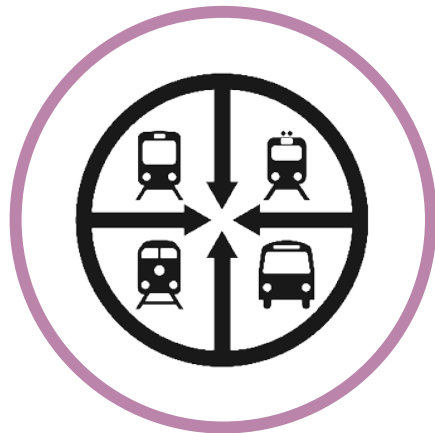
15 stations



388,000 daily  
boardings



Every 90 seconds  
during rush hour



40+ connections to  
other transit options



255,000 more people  
within walking  
distance to transit



Up to 47,000 more jobs  
accessible in 45 minutes  
or less, on average

# Faster commutes

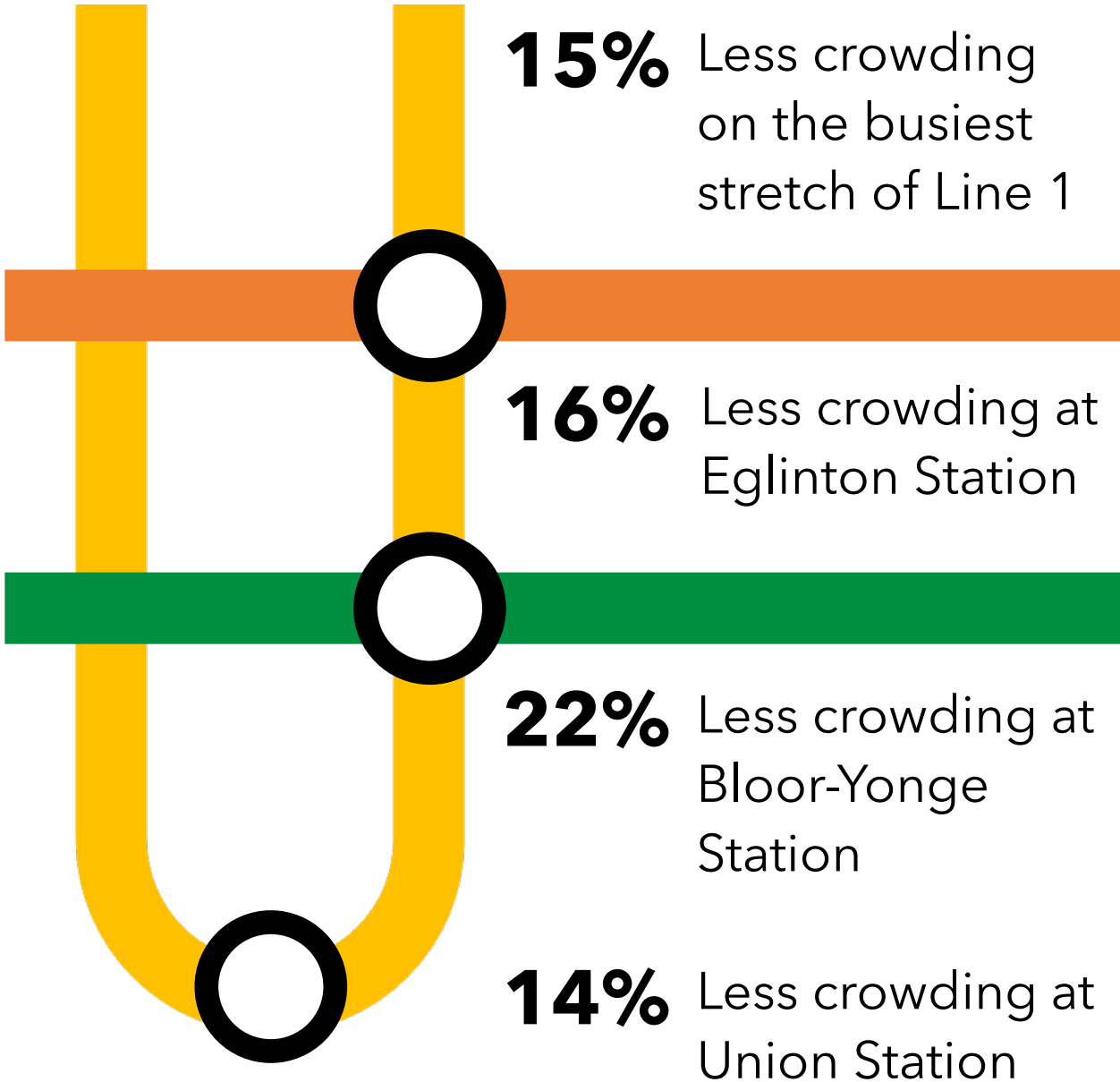
Travel times between Exhibition Place and the Ontario Science Centre



Travel times between Thorncliffe Park and downtown (King & Bay)



# Less crowding



# Environment

## Environmental Conditions Studies



Archaeological Resources



Built Heritage Resources & Cultural Landscapes



Noise & Vibration



Natural Environment



Socio-Economic & Land Use Characteristics



Air Quality



Traffic & Transportation



Soil & Groundwater

## Environmental Reports



Environmental Conditions Report



Early Works Reports



Environmental Impact Assessment Report

### Impact Assessment

# What are the procurement packages?

## Rolling Stock, Systems, Operations and Maintenance (RSSOM)



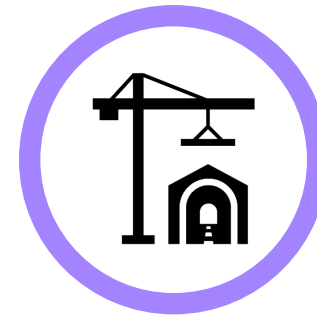
- Design, build, operate and maintain trains
- Design, build, operate and maintain track, communications, train control systems, and maintenance and storage facility
- The TTC will be responsible for day-to-day operations as they relate to customer-facing activities such as fare enforcement and network transit control

## Southern Civil, Stations and Tunnel



- One above-ground station integrated with existing GO Transit Exhibition station
- Two underground stations integrated with existing TTC Osgoode and Queen stations
- Four new underground stations (King/Bathurst, Queen/Spadina, Moss Park, Corktown)
- Two portals
- A six-kilometre tunnel

## Northern Civil Stations, and Tunnel



- Seven new stations
- A three-kilometre tunnel
- Two portals
- Bridges
- Elevated guideways

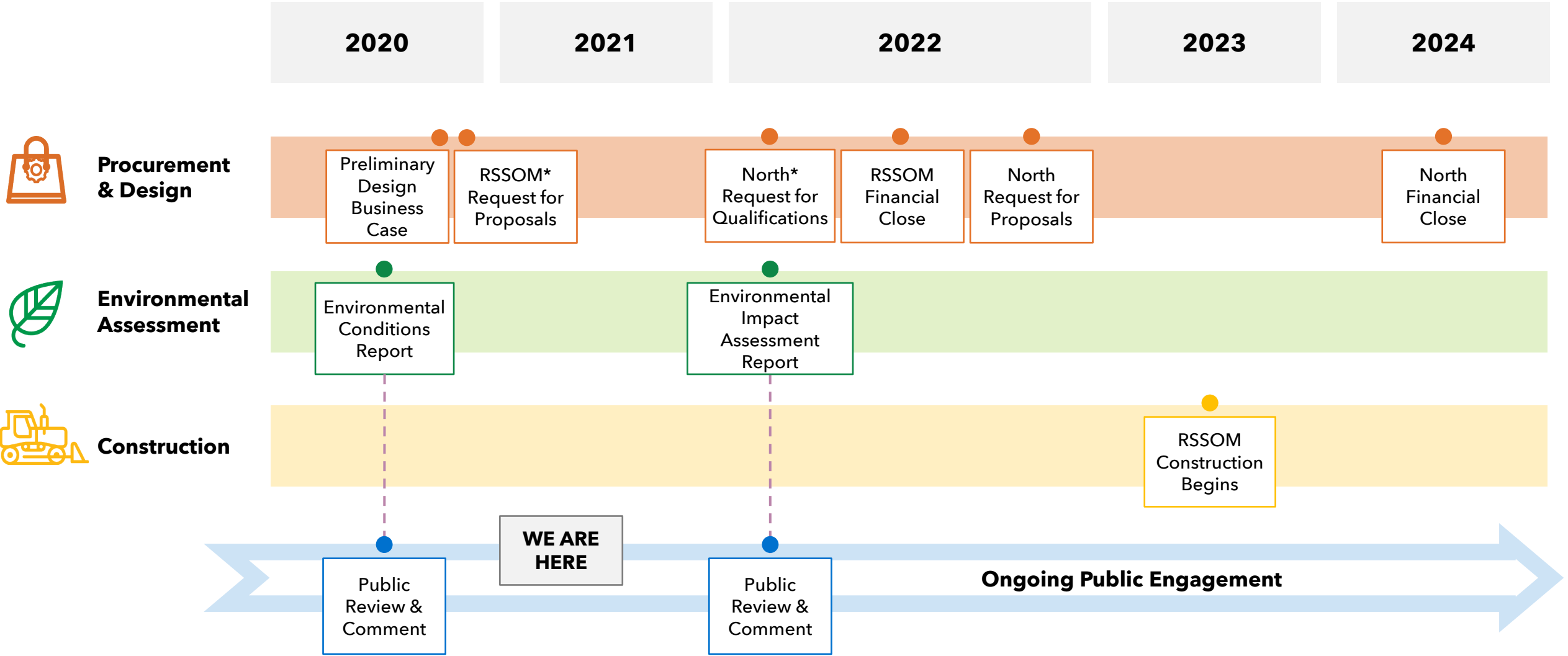
## Early Works Contracts



- Bridge, track and other preparatory activities along the joint rail corridor where the Ontario Line will operate next to existing GO Transit rail services, including at Exhibition station



# Timeline (North segment)

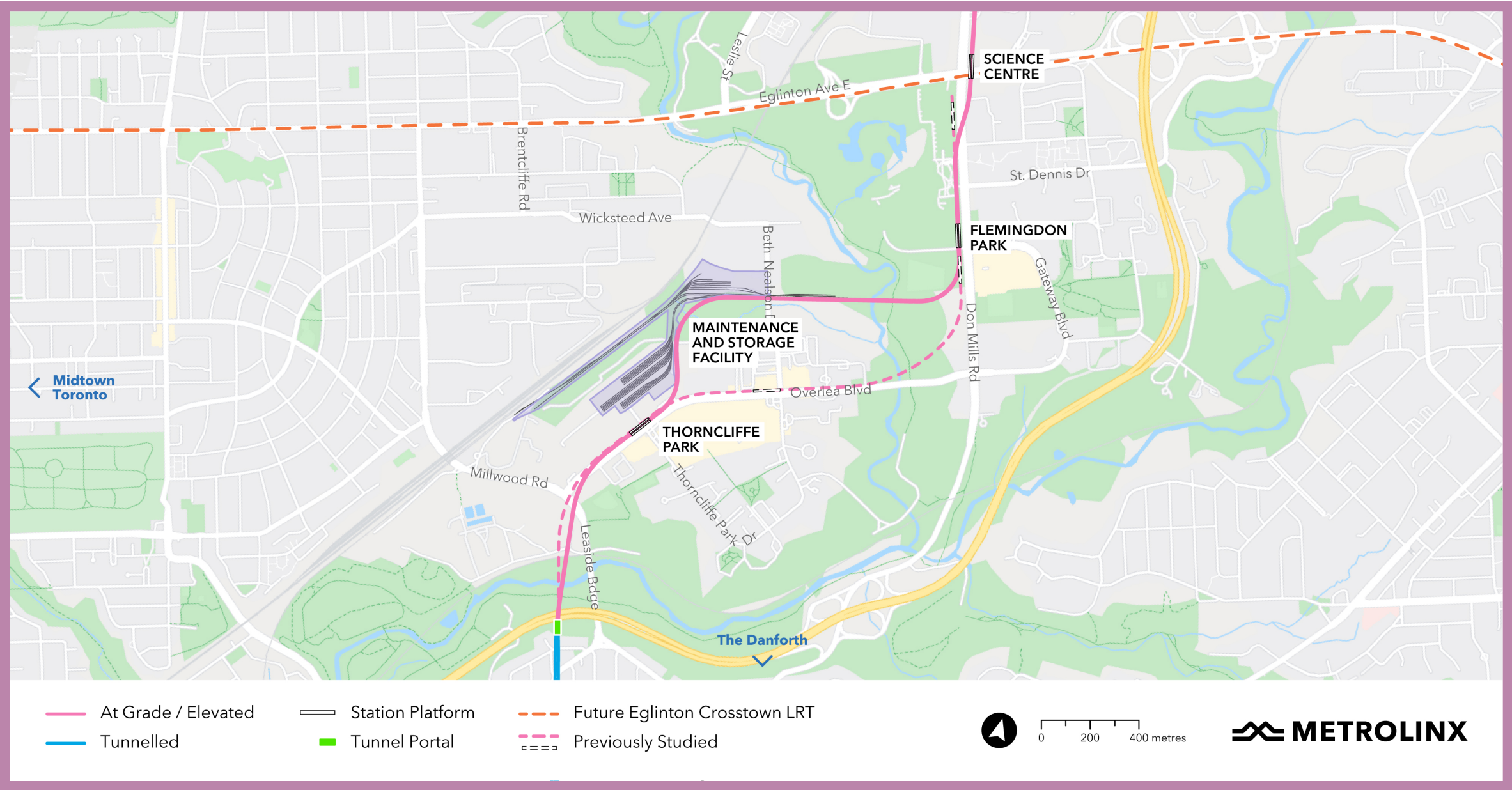


Timelines are subject to change

\*Procurement Packages:

- RSSOM - Rolling Stock, Systems, Operations and Maintenance
- North - Northern Civil, Stations and Tunnel

# North segment





# Ontario Line features

- Electric, automated (driverless) trains
- Train doors will automatically open and close in sync with platform edge doors.
- Tracks and stations will be elevated above the street in Thorncliffe Park and Flemingdon Park, similar to elevated transit lines in Vancouver, London, Singapore, and Shanghai.



Example elevated transit lines in Vancouver and London

# Why will the Ontario Line use elevated guideways?

- Tunneling deep enough to reach under the Don River would have required the station at Thorncliffe Park to be roughly 70 metres underground.

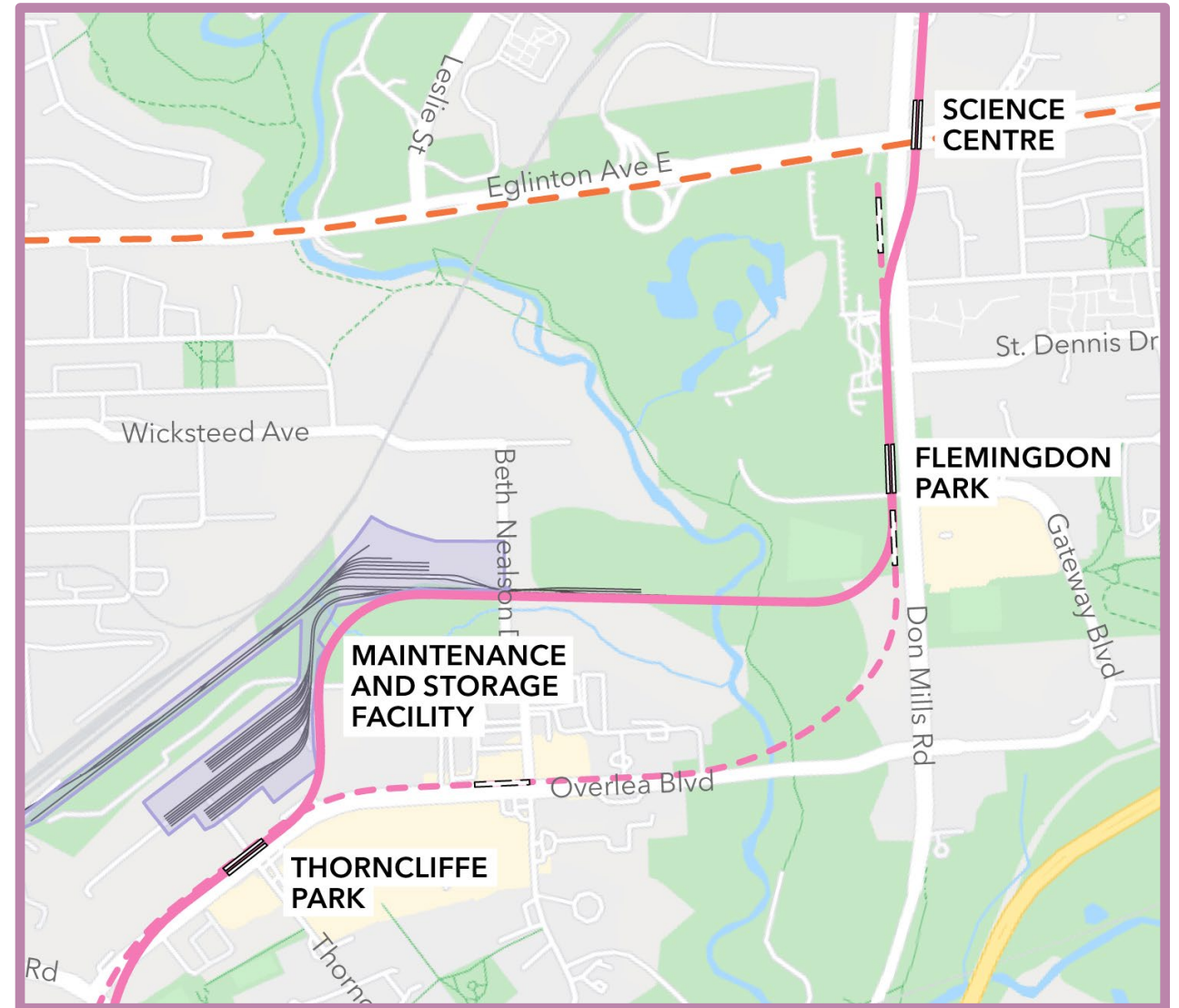
## Having above-ground stations in this area will:



- ✓ Eliminate up to **5 escalators** needed to get from the surface to Ontario Line platforms



- ✓ Cut up to **8 minutes** of added connection time between surface transit and platforms





# Why will the Ontario Line use elevated guideways?

- Tunneling is a disruptive process, requiring multiple excavation sites and construction laydown areas in the community, which would have major impacts on surrounding businesses and residential properties.
- In Thorncliffe Park and Flemingdon Park, wide streets can accommodate elevated guideways while limiting impacts to neighbouring buildings.

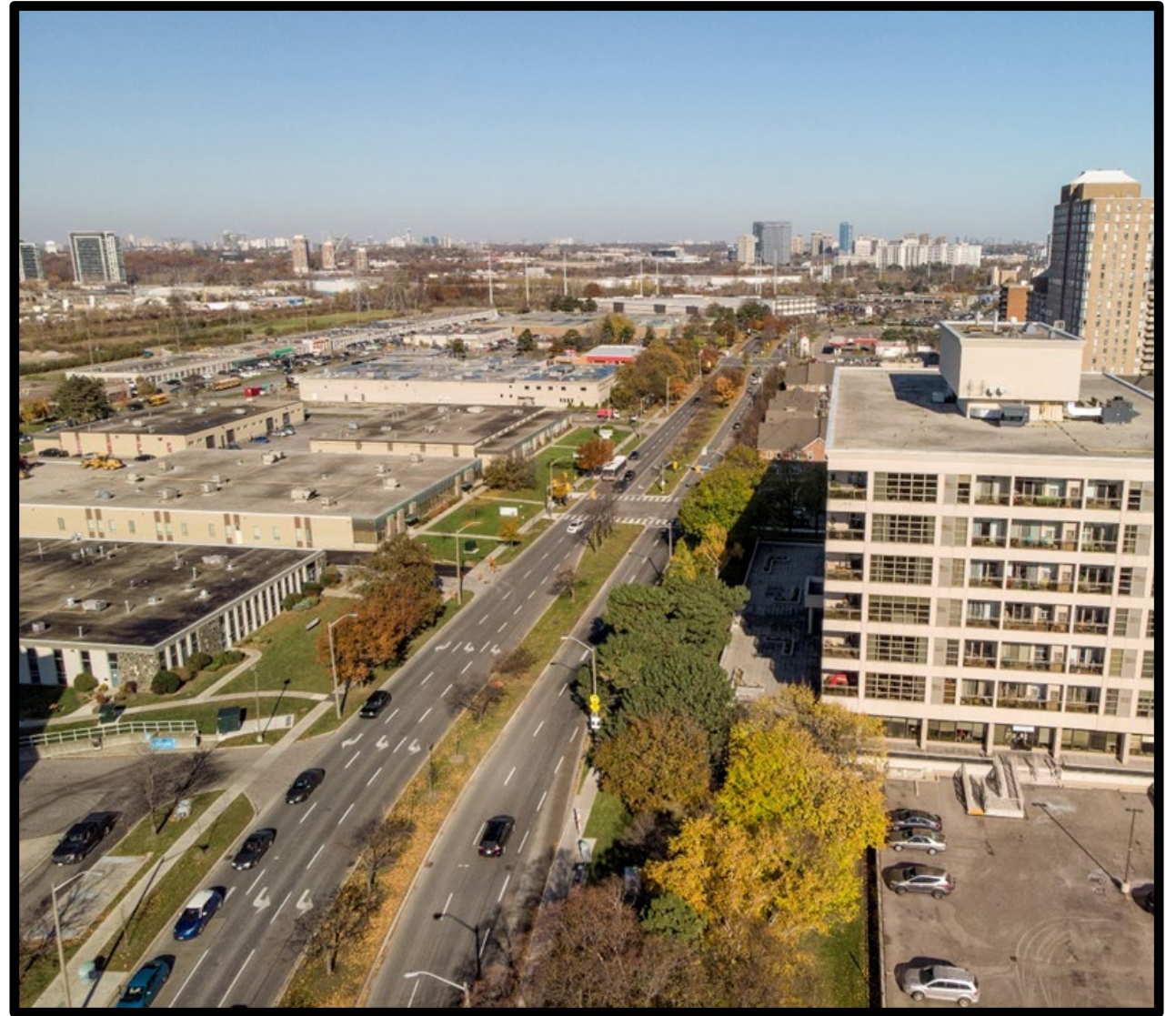
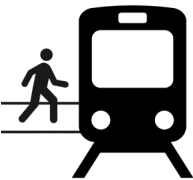
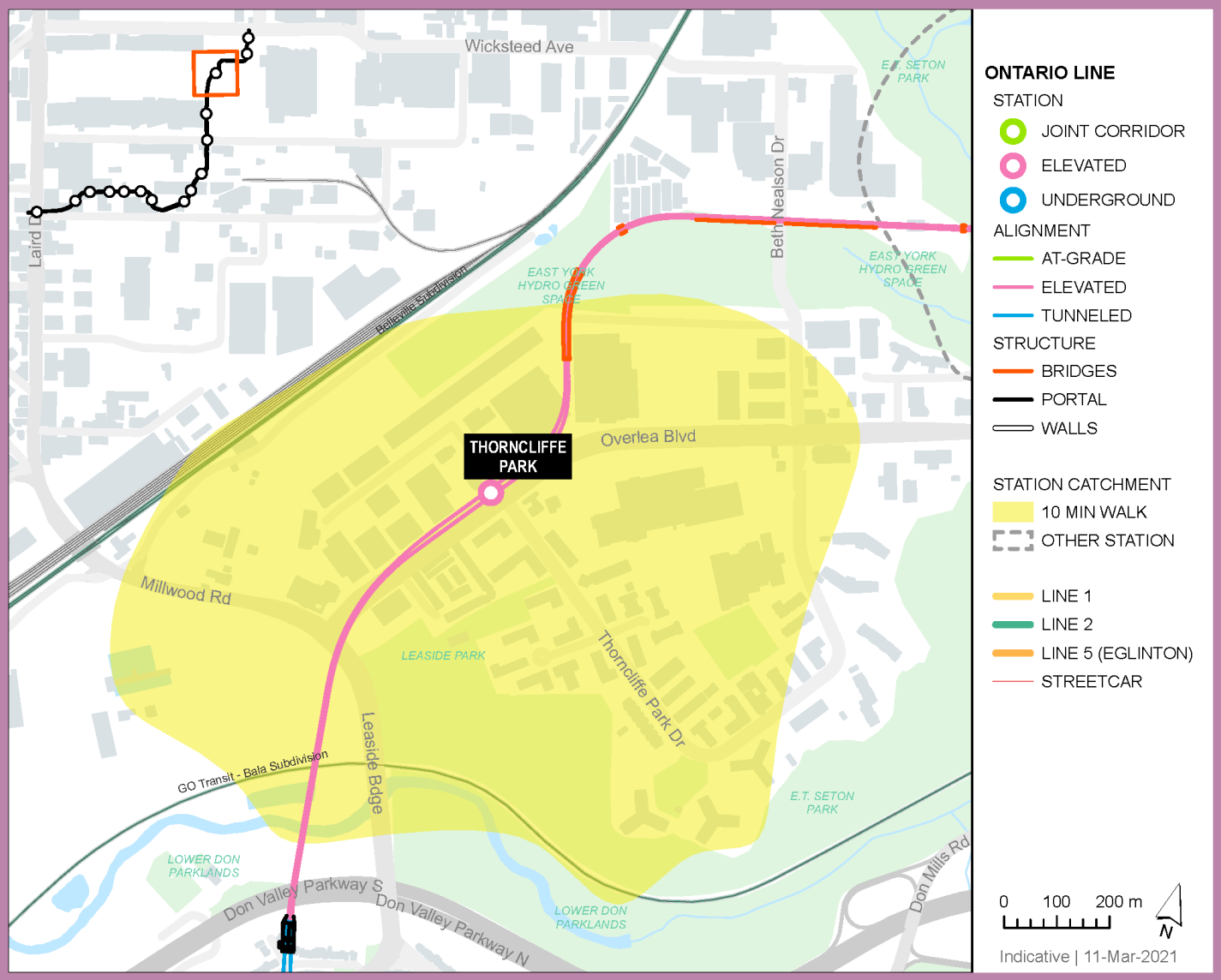


Photo of Overlea Boulevard

# Station location: Thorncliffe Park

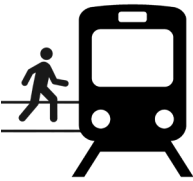
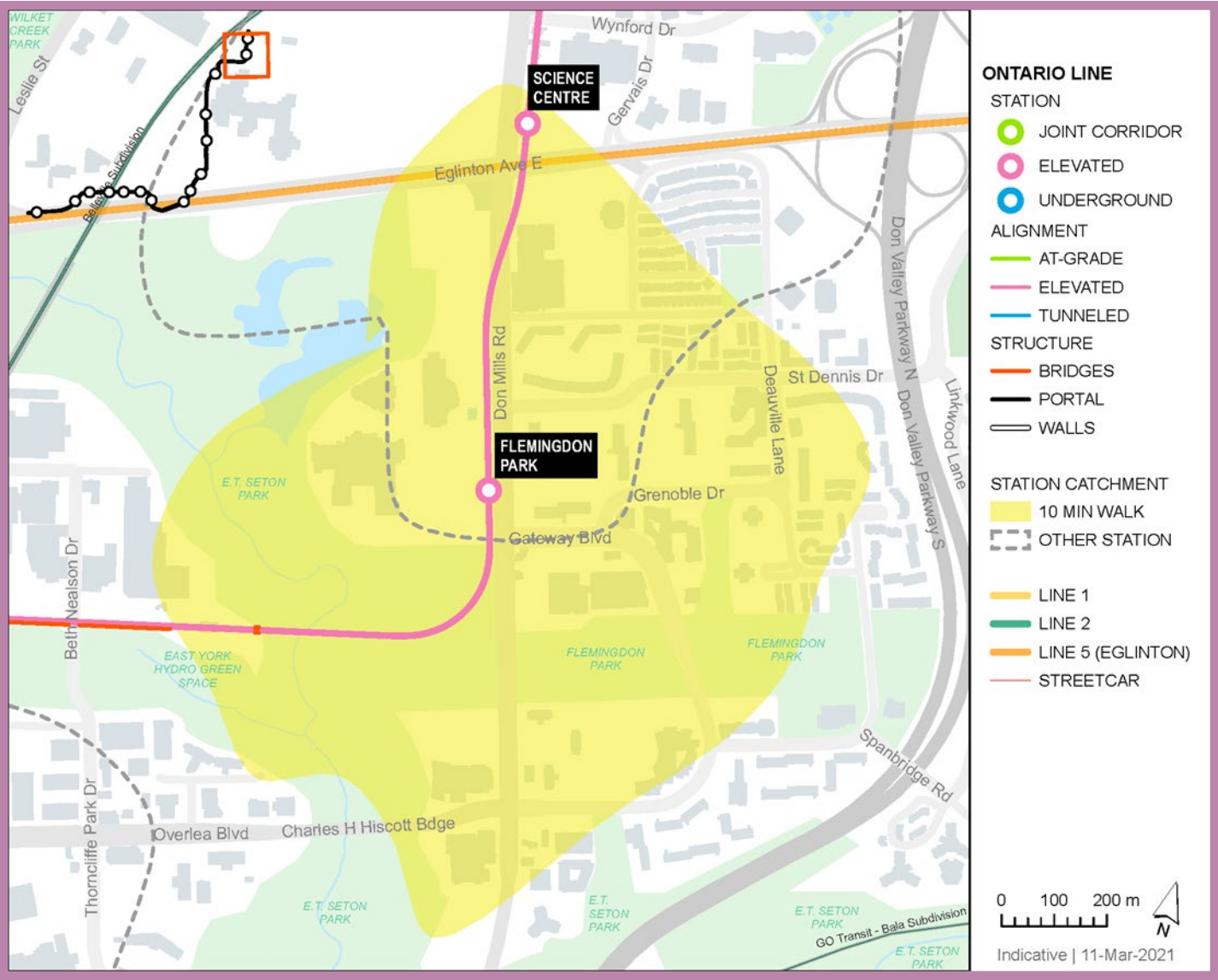


## Estimated peak-hour ridership

- 3,100 in total
- 2,100 boardings
- 1,100 alightings



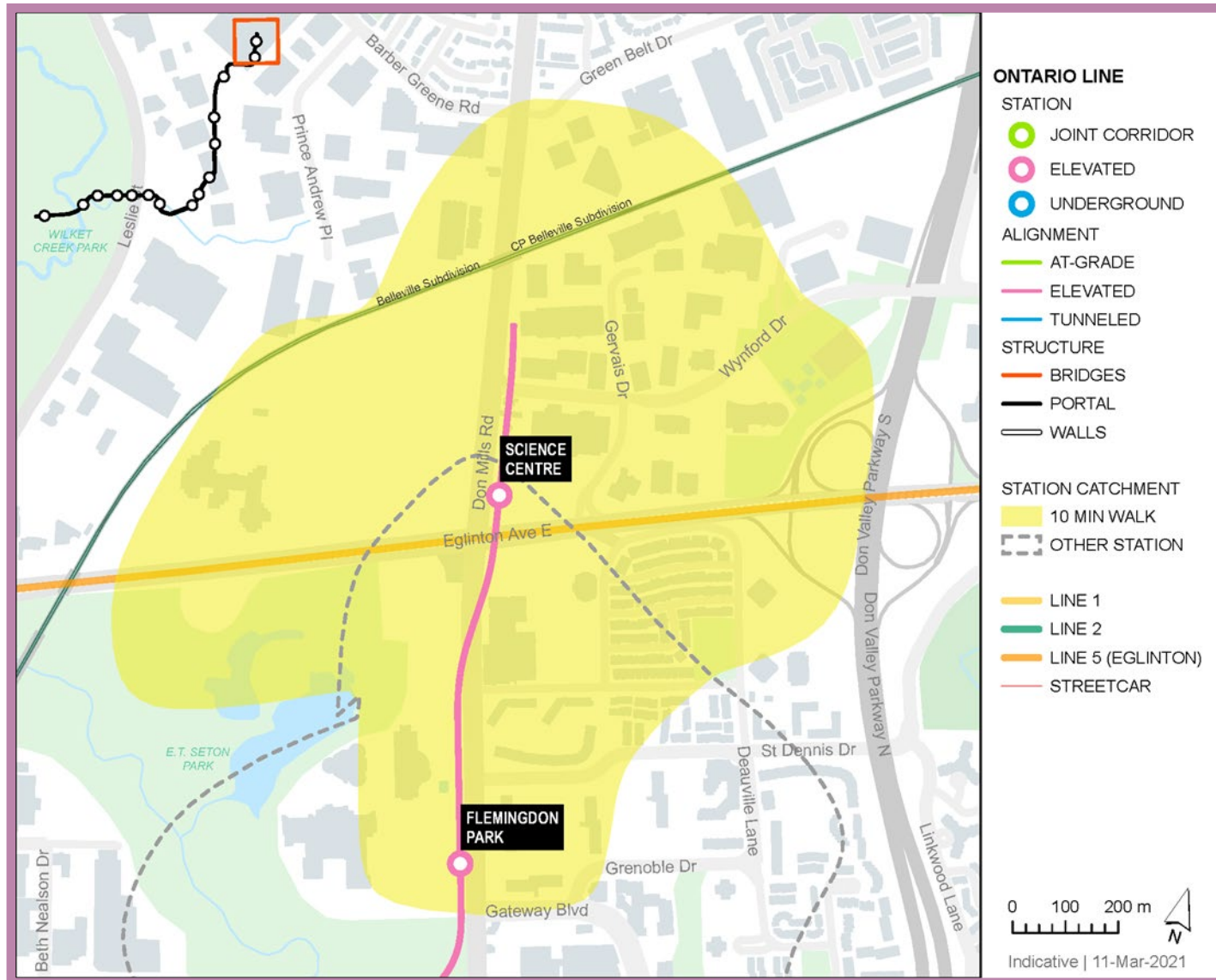
# Station location: Flemingdon Park



## Estimated peak-hour ridership

- 2,700 in total
- 1,700 boardings
- 1,100 alightings

# Station location: Science Centre



## Estimated peak-hour ridership

- 5,800 in total
- 3,600 boardings
- 2,200 alightings



# What is a maintenance and storage facility?

- The maintenance and storage facility is where Ontario Line trains will be housed, inspected, cleaned, and maintained.
- The Ontario Line maintenance and storage facility will be located in the southeast corner of the Leaside Business Park.
- Once built, the Ontario Line is expected to support 300 full-time jobs at the maintenance and storage facility.



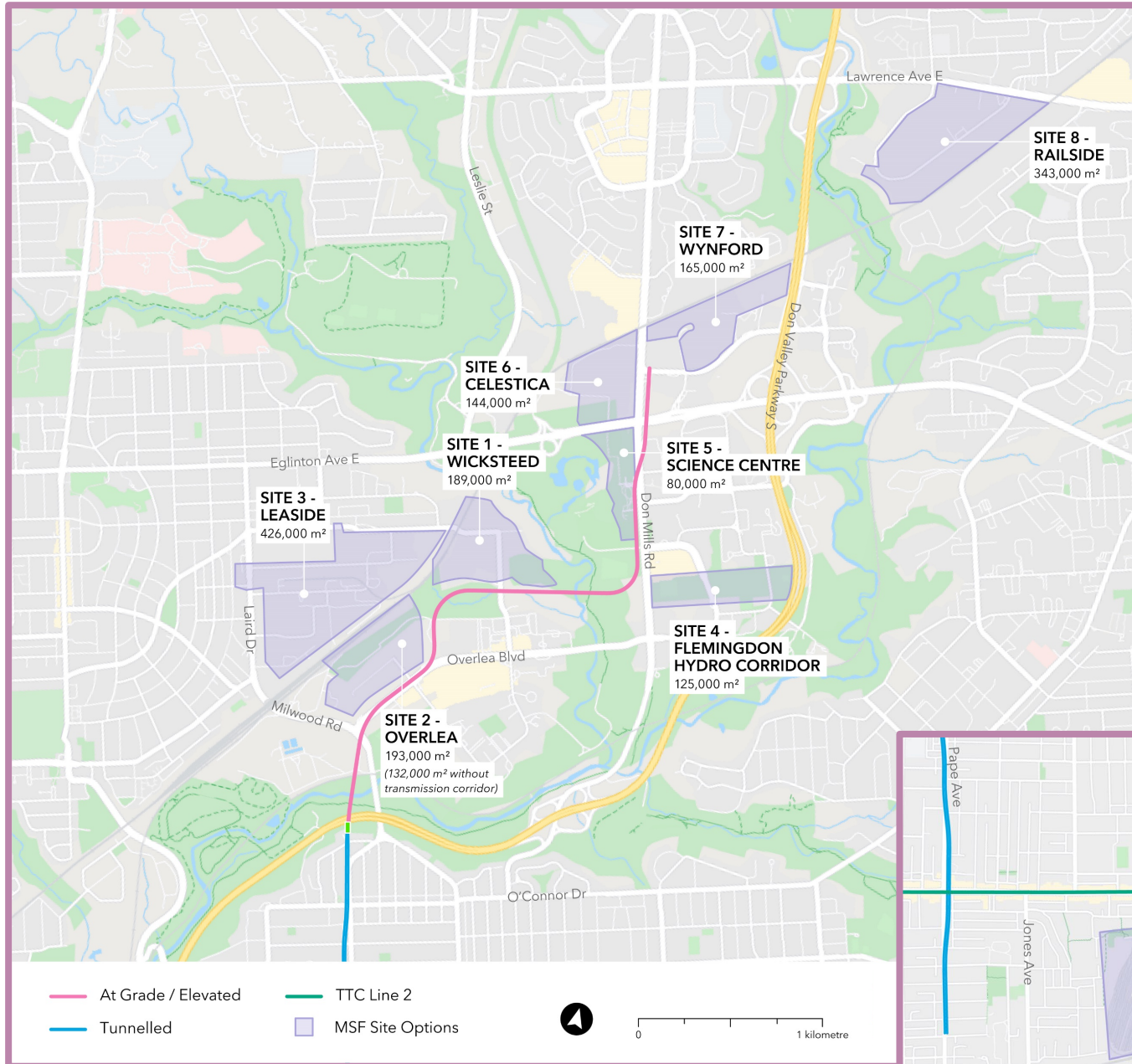
Representative photo of Eglinton Crosstown maintenance and storage facility (2018)

## MSF location selection: guiding principles for review

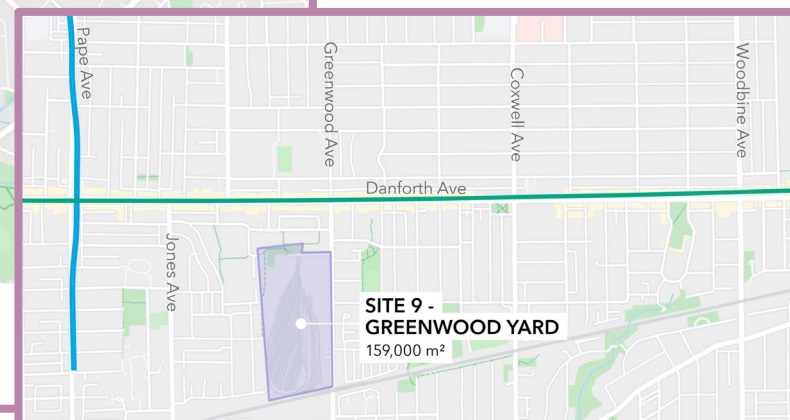
- **Land size:** A site of 140,000 square metres is needed to house and maintain between 200 and 250 trains cars -- about the size of 24 soccer fields.
- **Location:** How quickly and easily the site can connect to the main Ontario Line tracks in a way that keeps impacts to the local community to a minimum.
- **Technically feasible:** Land shape, zoning, and ease of land acquisition and assembly.
- **Minimize community impacts:** Reduce impact on residential, commercial, industrial, religious, environmental and recreational space important to the local community.
- **Minimize impacts to local businesses and community organizations:** Reduce impacts to jobs.



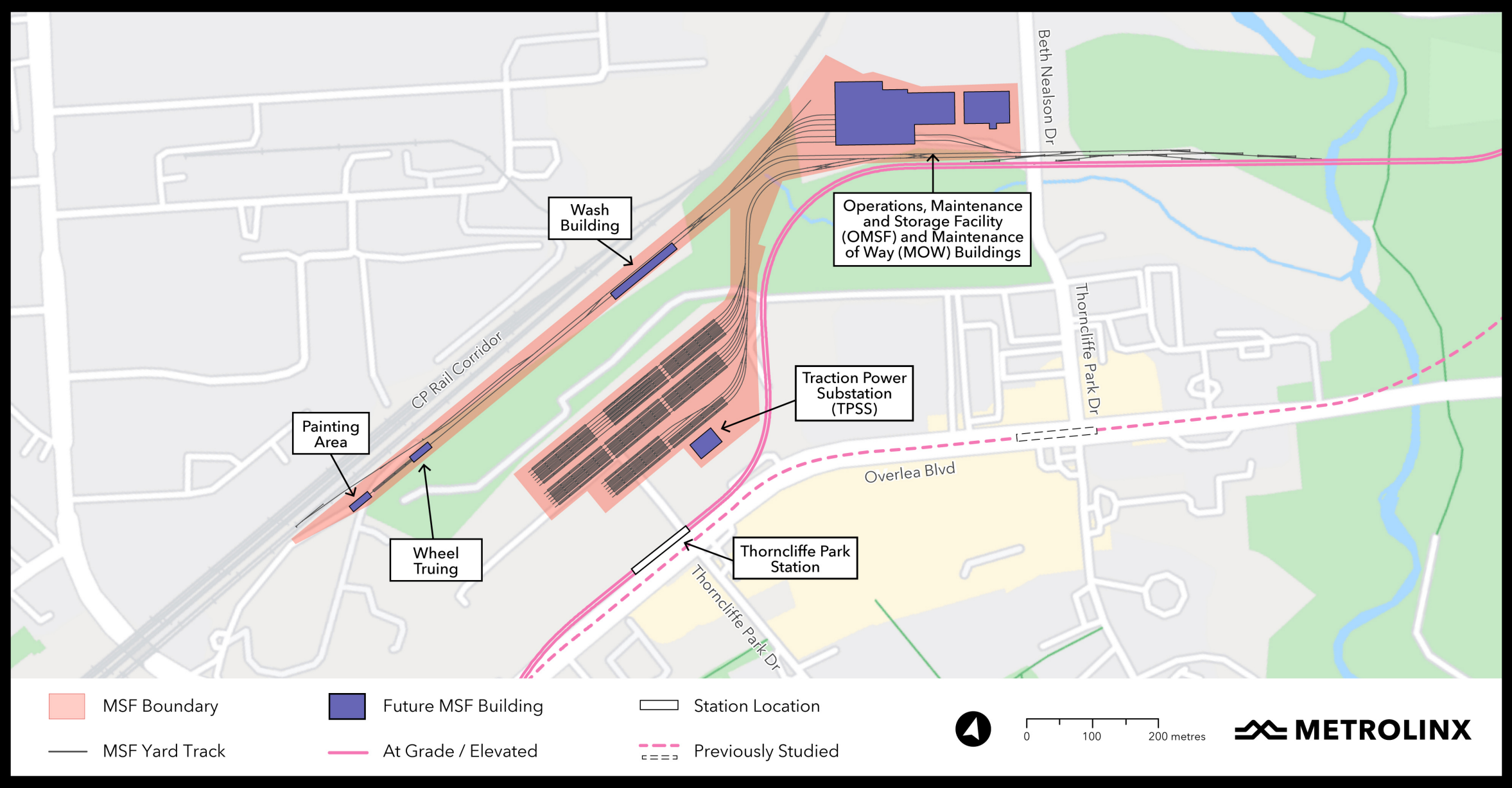
# MSF location selection: alternatives considered



- We studied nine options in close collaboration with City of Toronto staff.
- No vacant land exists in the city to accommodate a maintenance and storage facility.
- All options required significant property acquisitions and would have impacted many jobs.



# Maintenance and storage facility location





# What's next for impacted businesses and community organizations?



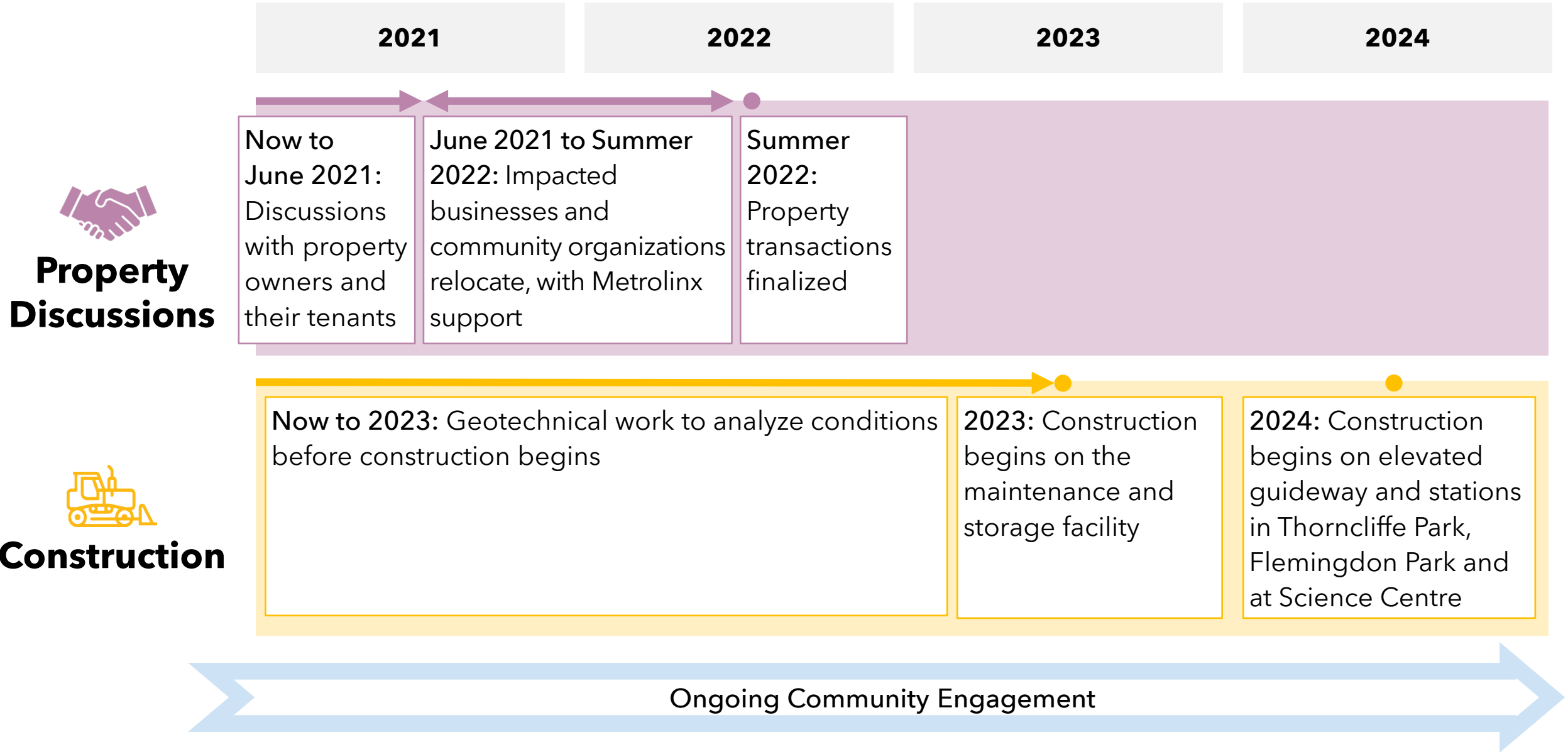
## Masjid Darus Salaam - Mosque at 4 Thorncliffe Park Drive

- We have been in discussions with mosque leadership and are committed to working with them directly.
- The current mosque at 4 Thorncliffe Park Dr will continue at the Islamic Society of Toronto's new property at 20 Overlea Blvd.
- 20 Overlea Blvd is not affected by the maintenance and storage facility.



Masjid Darus Salaam at 4 Thorncliffe Park Dr

# Timelines



Construction timelines are subject to change

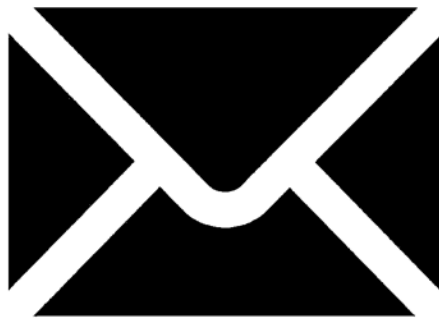
## What's next?

- Regular updates, more virtual events and opportunities to provide feedback and ask questions
- In-person meetings and events when it is possible
- Environmental Impact Assessment Report
  - January 2022: Draft report and opportunity for public feedback
  - April 2022: Final report

## Contact us

Your feedback is vital in helping us to move the Ontario Line forward in a way that strengthens the community. We are grateful for your input.

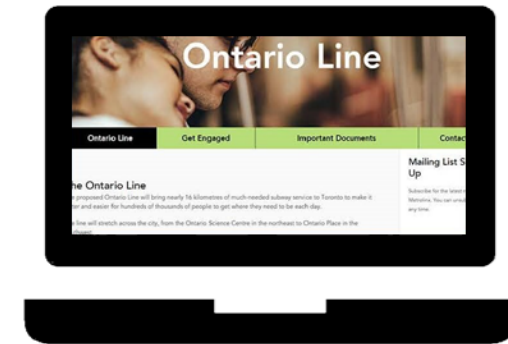
To stay up to date on upcoming virtual events and the latest Ontario Line news, sign up for our e-newsletter at [Metrolinx.com/OntarioLine](https://metrolinx.com/OntarioLine).



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