

Yonge North Subway Extension

# Royal Orchard Community Liaison Committee- Meeting #3

May 21, 2024

 METROLINX



# LAND ACKNOWLEDGEMENT

Let us take a moment to acknowledge we are on lands that have been, and continue to be, home to many Indigenous Peoples including the Anishnabeg (Ah-nish-naw-bay), the Haudenosaunee (Hoe-den-oh-shown-ay) and the Huron-Wendat (When-dat) peoples.

We are all Treaty people. Many of us have come here as settlers, as immigrants or involuntarily as part of the trans-Atlantic slave trade, in this generation, or generations past.

We acknowledge the historic and continued impacts of colonization and the need to work towards meaningful reconciliation with the original caretakers of this land.

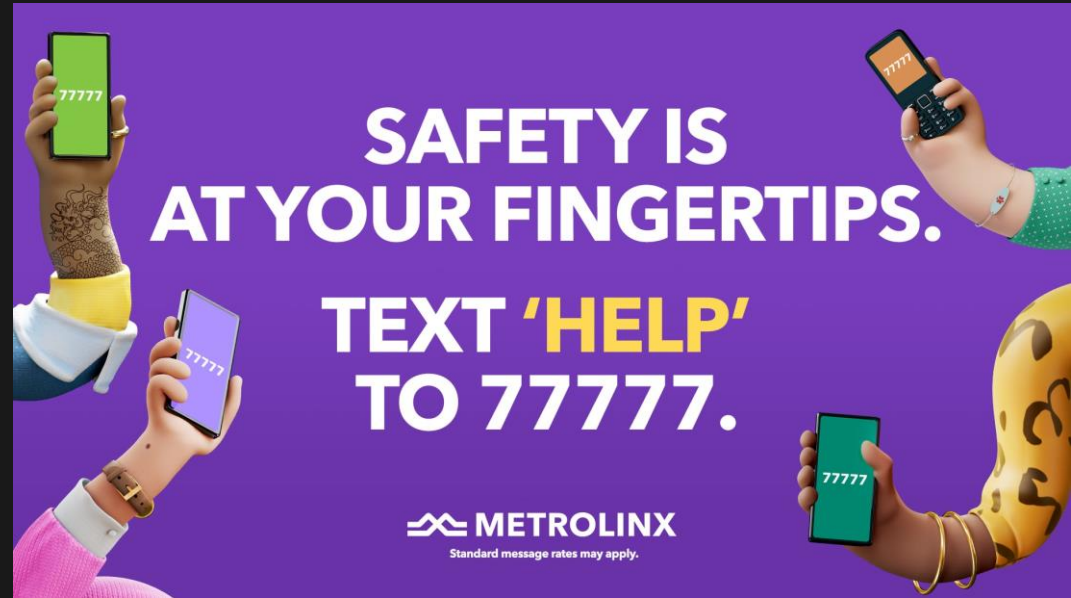
We acknowledge that Metrolinx operates on territories and lands covered by many treaties that affirm and value the rights of Indigenous communities, Nations and Peoples.

We understand the importance of working towards reconciliation with the original caretakers of this land. At Metrolinx, we will conduct business in a manner that is built on a foundation of trust, respect and collaboration.



## SAFETY MOMENT

Text 'HELP' to 77777 to communicate in real-time with a CPS dispatcher to report or request assistance in the event of an emergency or safety concern.



You can chat with us in over 100 languages, including Hindi, Punjabi, Traditional and Simplified Chinese, Tagalog, and Arabic.

This allows you to get help quickly and discreetly from anywhere within our network – on a bus, on a train, in a station building, on a platform or at a bus loop.

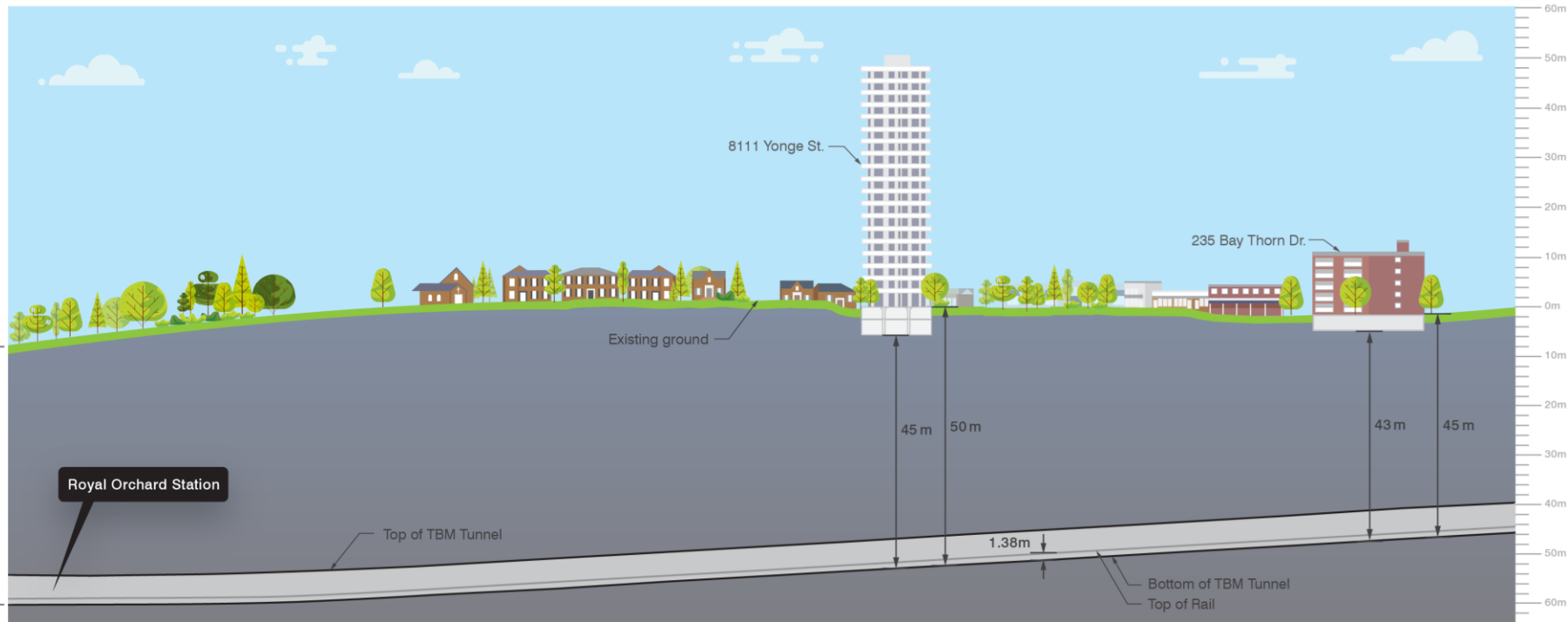
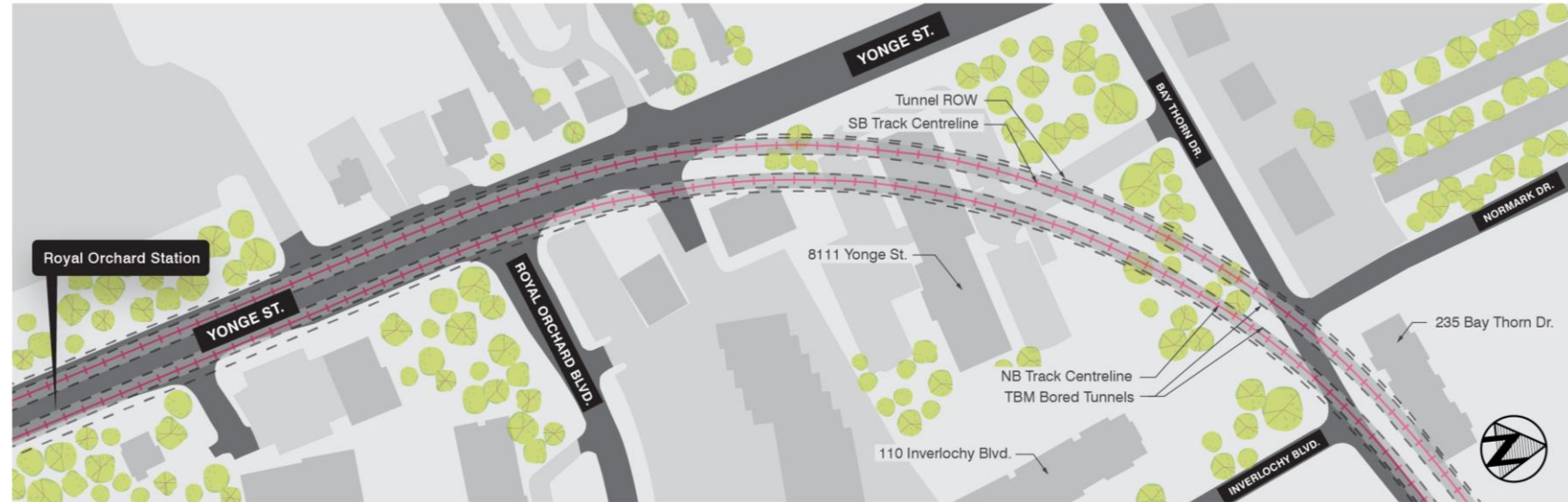
# AGENDA

1. Tunnel Depth Profiles
2. Advanced Tunnel Milestone Sequencing
3. Additional Geotechnical Work in Royal Orchard



# Tunnelling Depth Profiles: Royal Orchard Community

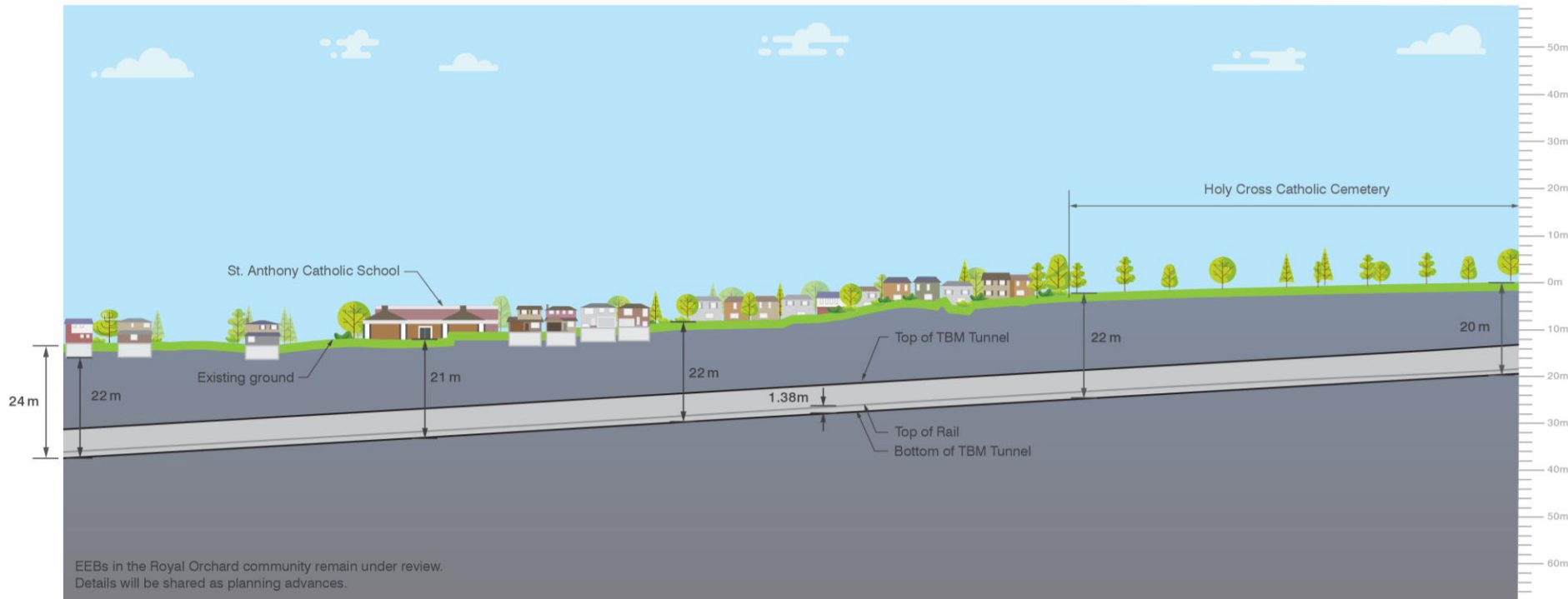
# Alignment & Depth: Yonge St. & Bay Thorn Dr.



# Alignment & Depth: Bay Thorn Dr.



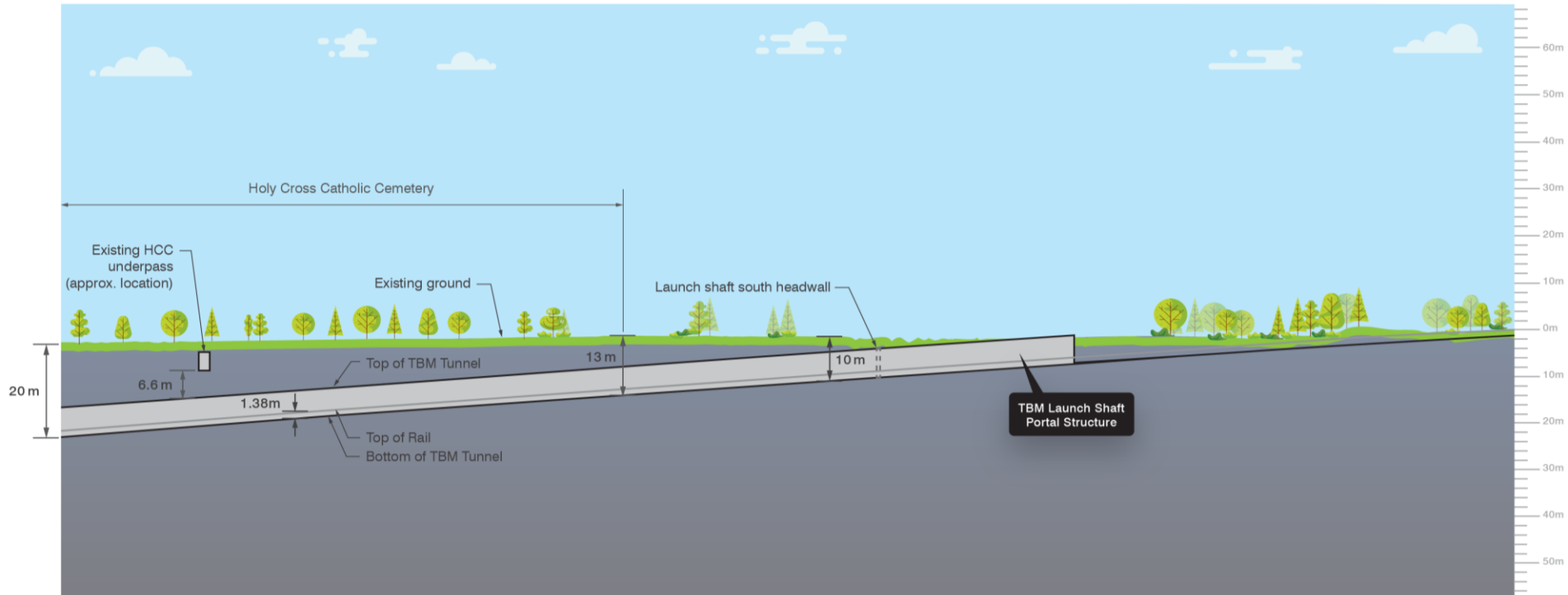
# Alignment & Depth: Banquo Rd. & Kirk Dr.



EEBs in the Royal Orchard community remain under review.  
Details will be shared as planning advances.

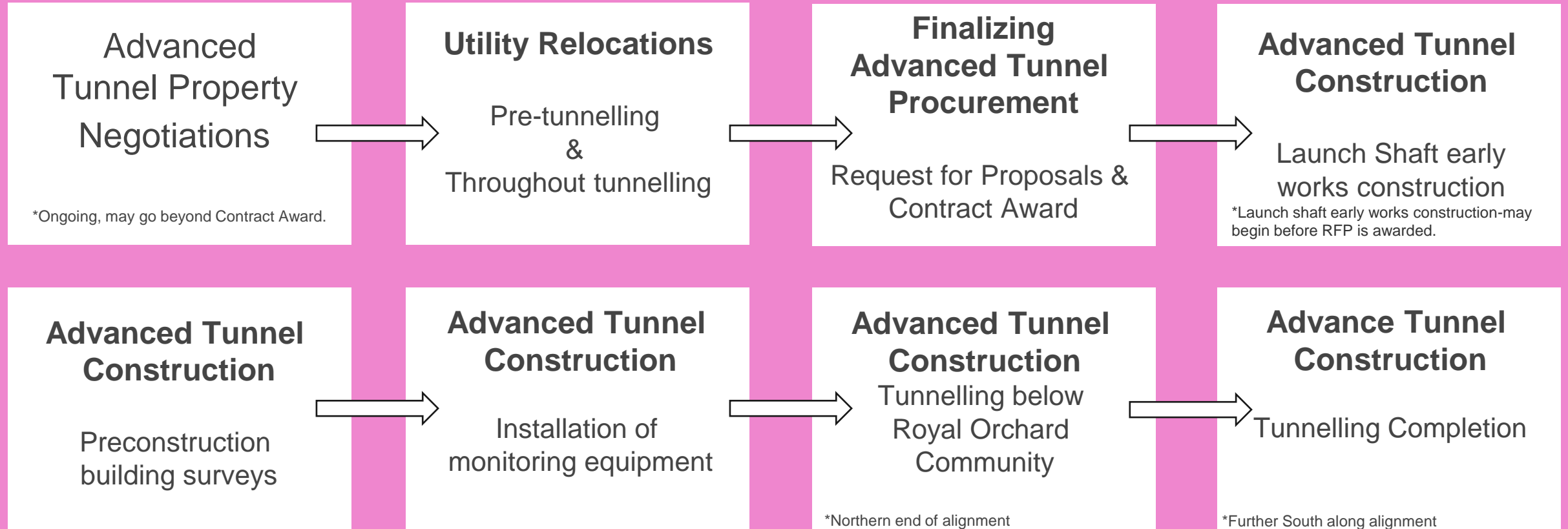


# Alignment & Depth: CN Corridor



# Advanced Tunnel Contract: Milestone Sequence

# ADVANCED TUNNEL CONTRACT: MILESTONE SEQUENCE



## Construction activities that are not part of the Advanced Tunnel Contract:

- EEB headhouse construction
- Royal Orchard Station construction

\*Will commence once SRS Contract procurement is completed.



# Additional Geotechnical Investigations in Royal Orchard

## ADDITIONAL GEOTECHNICAL INVESTIGATIONS

### WORK OVERVIEW

Subsurface investigations are essential to provide a full understanding of the environment before the tunnel and tunnel boring equipment is designed.

With this information, the Yonge North Subway Extension can be built to specifications designed to keep the neighbourhood as quiet and safe as it is today.

The information gathered about underground conditions will be provided to qualified bidders as procurement for tunnelling work for the project moves forward.



## ADDITIONAL GEOTECHNICAL INVESTIGATIONS

### SCOPE OF WORK: MONITORING WELLS

Boreholes drilled in the hard surface area will be provided with lockable flush mounted covers, so they do not create a tripping hazard.

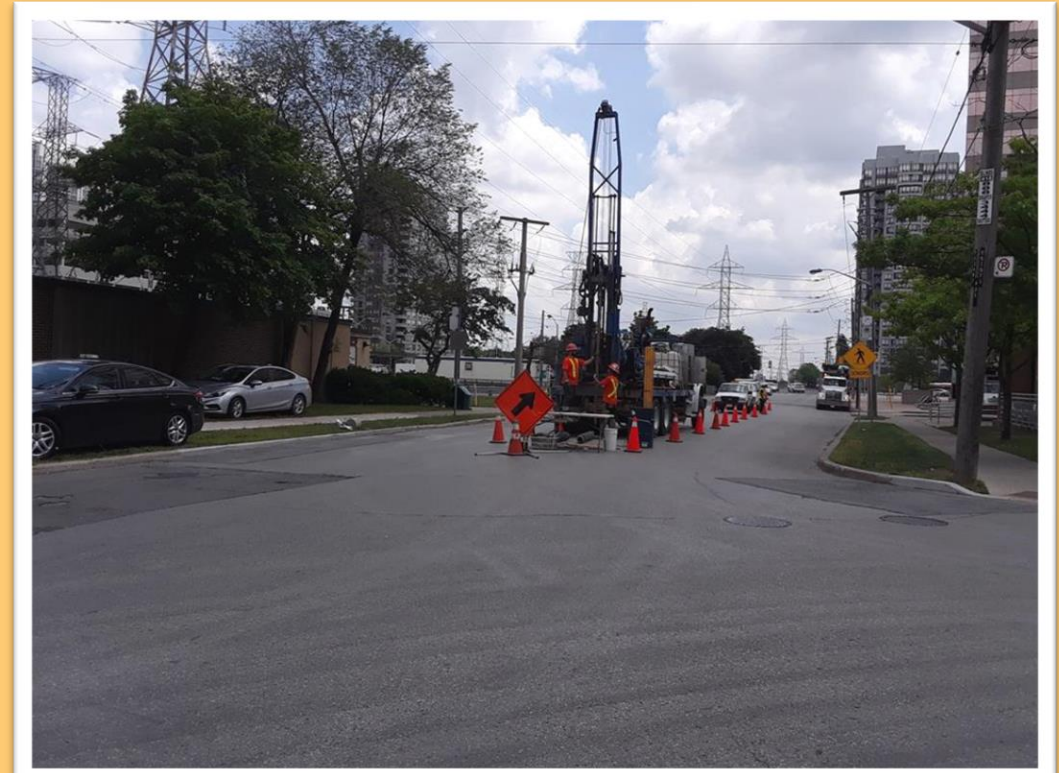
Monitoring wells will be accessed two or three times after installation to measure groundwater levels and hydraulic conductivity testing.

All the monitoring wells will be maintained by Metrolinx and accessed for quarterly groundwater level monitoring to comply with relevant government regulations and industry best practice until the Advance Tunnel Project Co takes possession of the monitoring wells.



## ADDITIONAL GEOTECHNICAL INVESTIGATIONS

### WHAT TO EXPECT: DRILL RIGS



## ADDITIONAL GEOTECHNICAL INVESTIGATIONS

### SAFETY MITIGATIONS

#### Noise Barrier & Emissions Protection (at Pomona Creek & Bay Thorn sites)

The safety fence will be draped with a portable noise barrier which will help to dampen some of the noise created by the drilling operations.

Sound levels will adhere to City of Markham by-laws and be even further improved with use of portable noise barriers, wherever required.

Emissions are very low (measurably lower than the average school bus). No smell or visible emissions are expected.

Vibration levels have been found to be generally imperceptible during the drilling activities.





## ADDITIONAL GEOTECHNICAL INVESTIGATIONS

### SAFETY MITIGATIONS

#### Safety, Security and Monitoring

Spill Response Kits are onsite for immediate remediation.

Commitment to safe and secure work zones from start to finish.

Accredited Competent Supervisor on site during working hours.

All equipment and site will be locked at the end of the shift for security and the hole covered.

Outside of working hours: Secured, fenced sites to be monitored by intermittent security patrol.



# ADDITIONAL GEOTECHNICAL INVESTIGATIONS

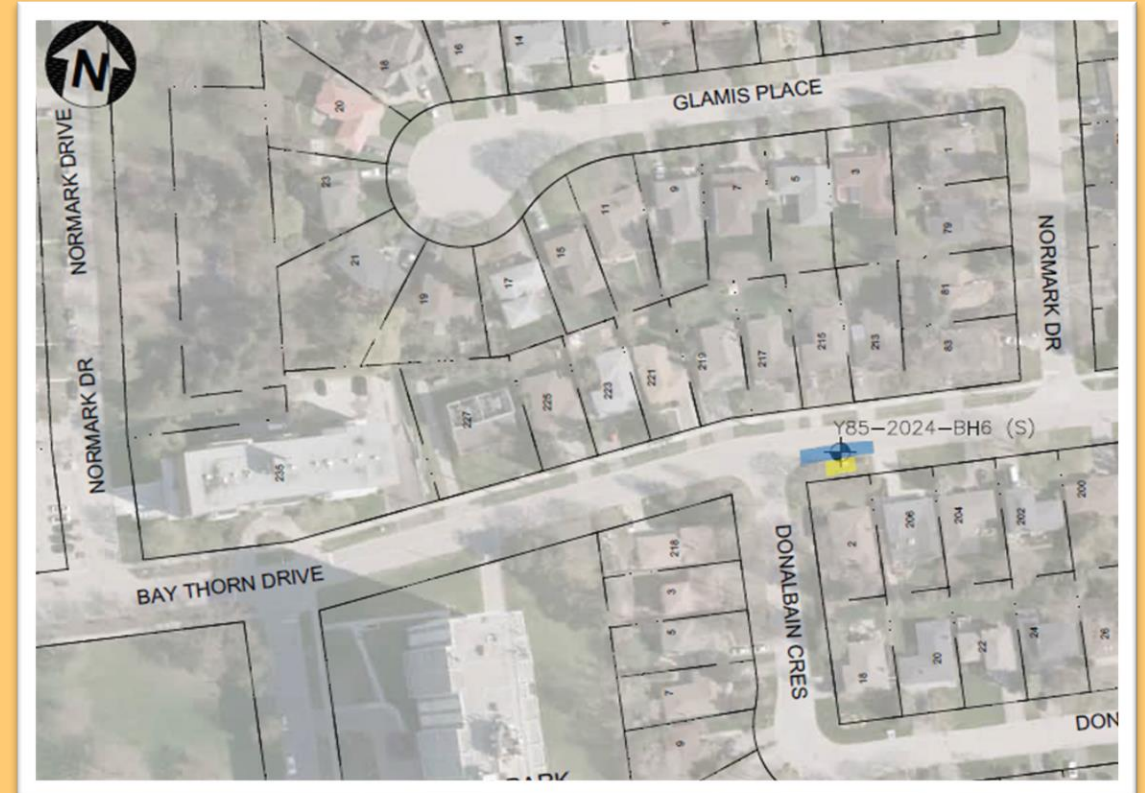
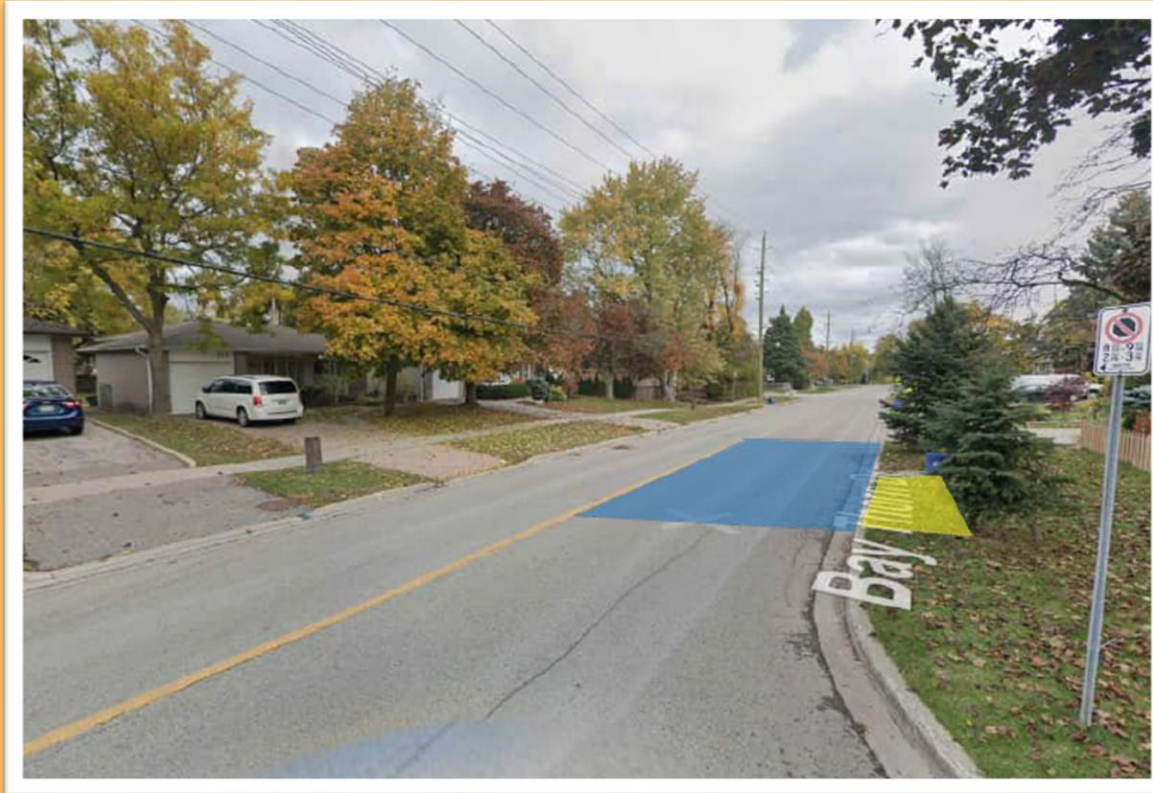
## LOCATION MAP



Adjacent Address: 198 Bay Thorn Drive

# ADDITIONAL GEOTECHNICAL INVESTIGATIONS

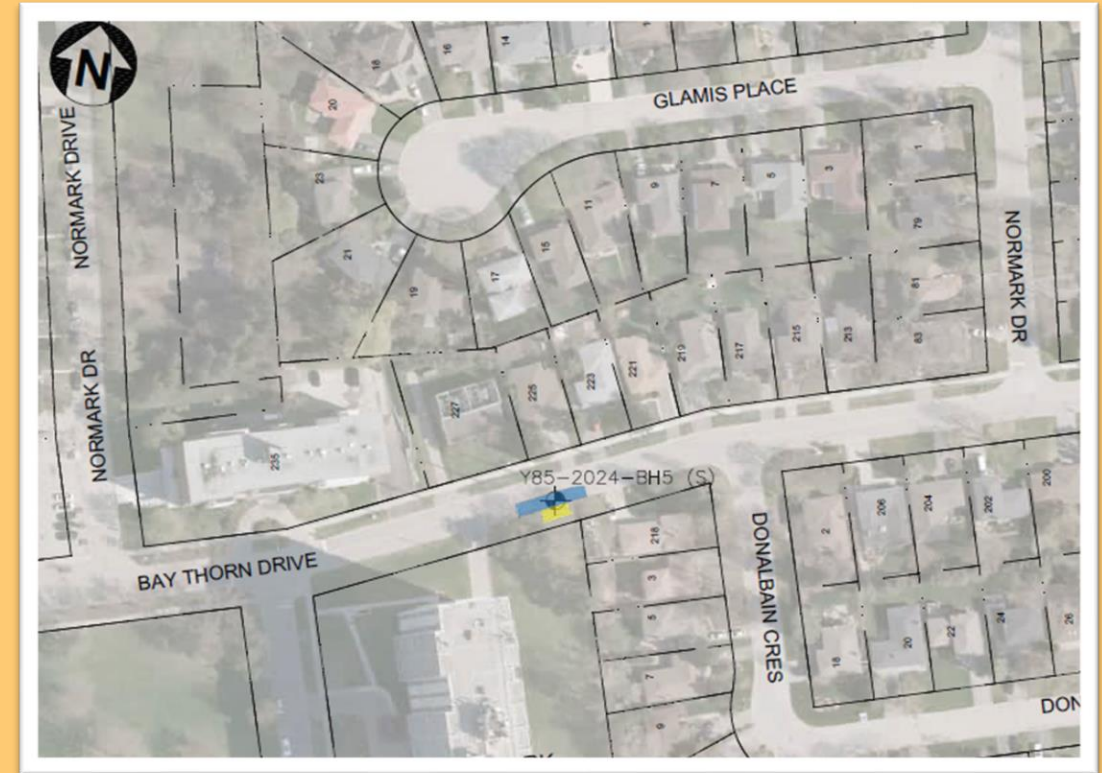
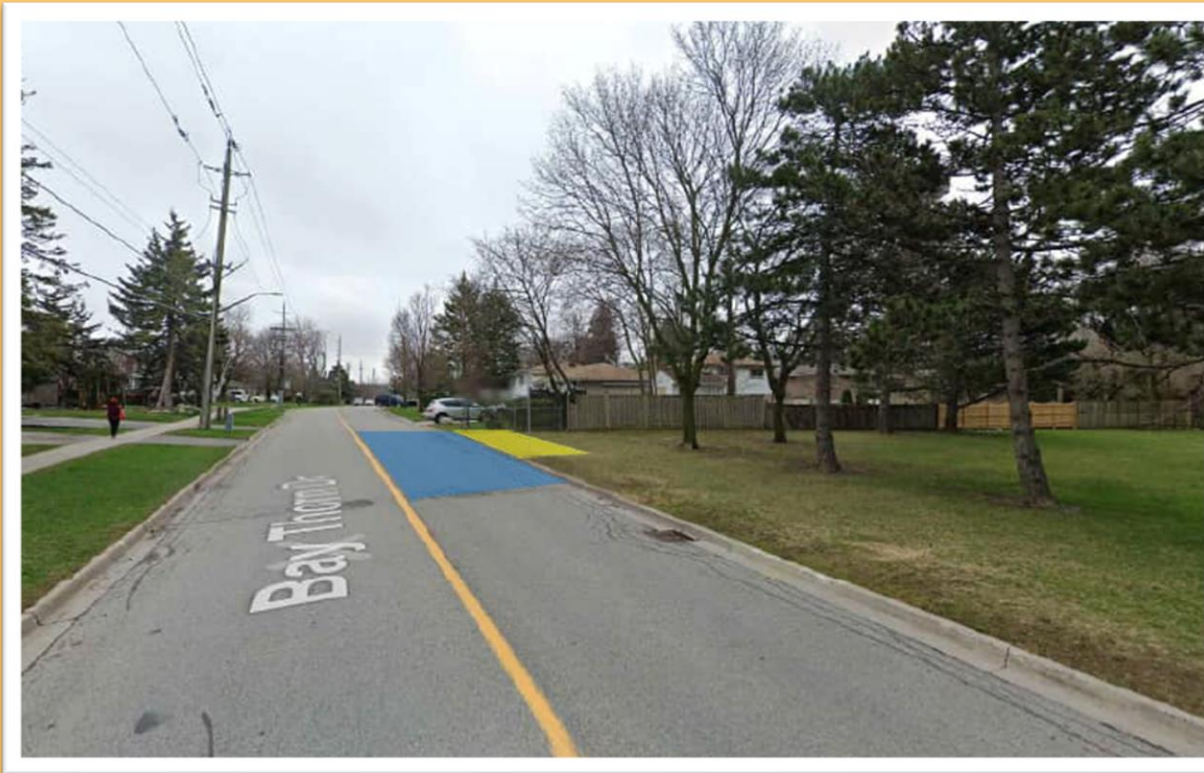
## LOCATION MAP



Adjacent Address: 215 Bay Thorn Drive

# ADDITIONAL GEOTECHNICAL INVESTIGATIONS

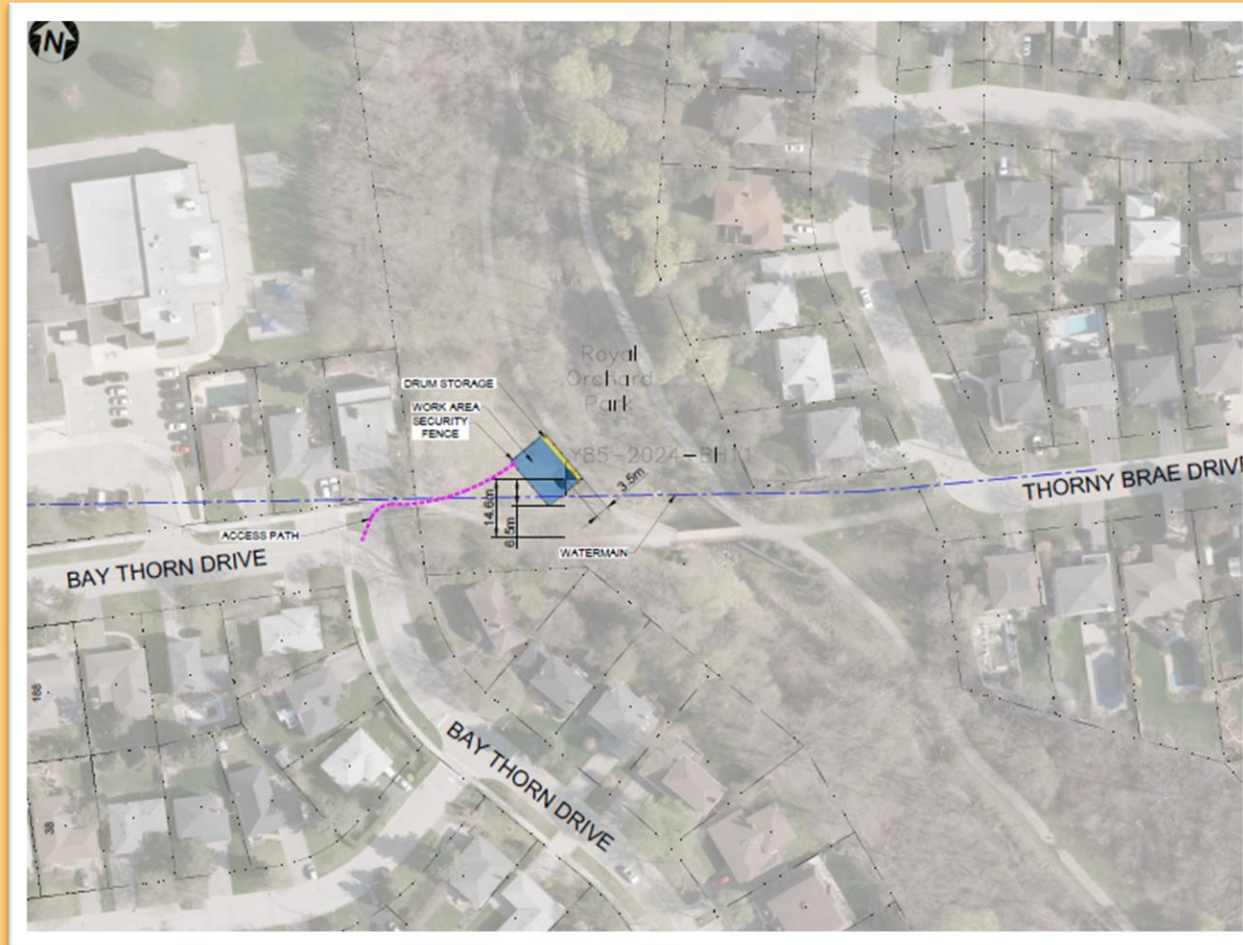
## LOCATION MAP



Adjacent Address: 227 Bay Thorn Drive

# ADDITIONAL GEOTECHNICAL INVESTIGATIONS

## LOCATION MAP



Pomona Creek

# COMMUNITY ENGAGEMENT

- The Community Engagement team will deliver construction notices to impacted stakeholders and residents, giving at least 2 week's notice before the borehole drilling begins. The construction notice will also be included in our e-newsletter.
- The Community Engagement team will be on site intermittently during drilling times, to answer resident questions and help mitigate any concerns.
- There is a dedicated phone line that residents can use to ask questions about the project or to flag any concerns or issues.
- Residents may also visit our recently opened Community Office, located at 295 High Tech Road, Unit 4, in Richmond Hill to meet with Community Engagement Advisors who are happy to answer questions about the YNSE Project, or ongoing construction works.
- Drop-in Community Office hours are;
  - Tuesday & Wednesday from 12:30pm-4:30pm, and Thursday from 10:00am-2:00pm.
  - Meetings outside of drop-in hours can be booked through the "[Book A Meeting](#)" tool on the Metrolinx website.



# Next Steps

- Community notification of geotechnical work will occur on the week of May 27<sup>th</sup>.
- The next CLC meeting will be in late June or early July with a focus on EEB locations.

