



# Welcome to the station box works open house

Eglinton Crosstown West Extension

September 24, 2025

# Introducing the WestEnd Connectors project team

WestEnd Connectors (WEC) is an integrated general partnership consisting of three Canadian and international leaders in construction: FlatironDragados Canada, Aecon Group Inc., and Ghella Canada Ltd.

Our team members have extensive experience in Canadian heavy civil and urban infrastructure projects and bring a unique expertise in underground tunneling works.

Together, WEC completed the two 6.3-km tunnels from Renforth Drive to Scarlett Road. WEC will now move onto the next phase of the project – Station Box Works.



# Stations, Rail and Systems (SRS)

Status: Trillium Rail Partners (TRP) will be delivering the Stations, Rail & Systems (SRS) package for the Eglinton Crosstown West Extension.

The Trillium Rail Partners (TRP) team includes:

**Construction Team:** Amico Major Projects Inc., Alberici Constructors Ltd., and Acciona Infrastructure Canada Inc.

**Design Team:** WSP Canada Inc.

## Stations

- Seven stations: four underground, one partially at-grade station and two elevated stations
- Seven auxiliary buildings

## Rail

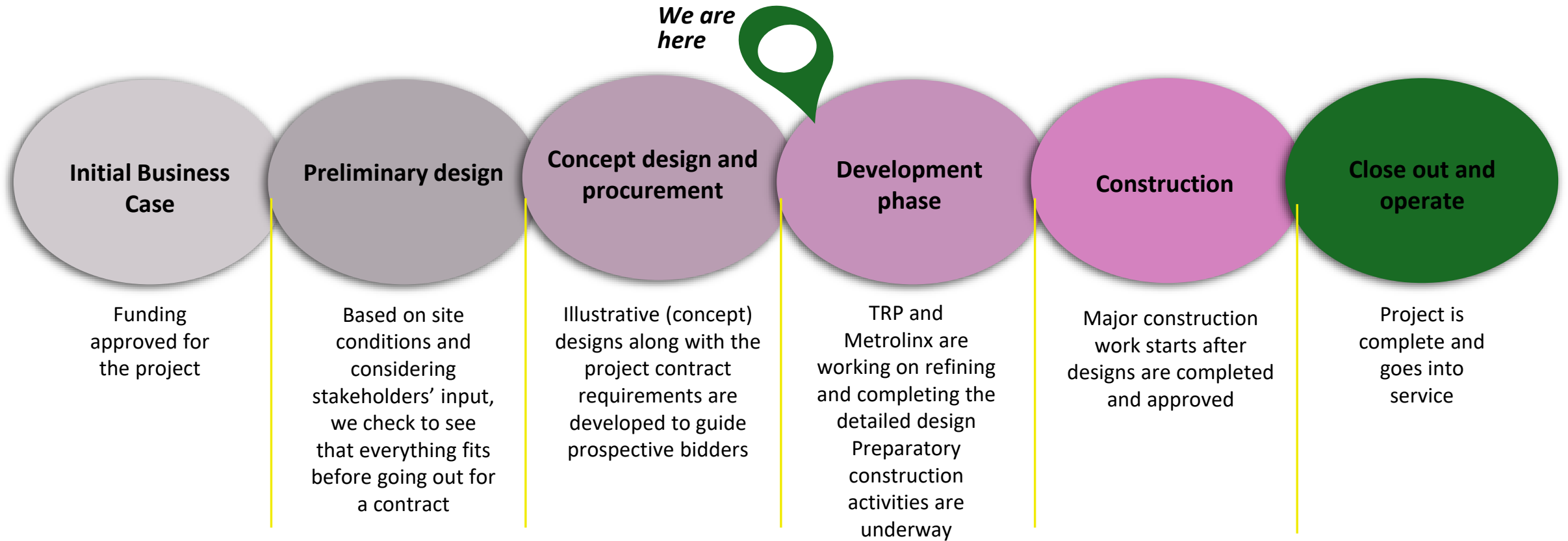
- Design and construction of 9.2 km of rail between Mount Dennis and Renforth stations

## Systems installation for:

- signaling and train control
- communications and electrification
- tunnel and elevated guideway fit-out and tunnel ventilation



# Station design phases





# Introducing station box works

- Work to prepare for construction of the four underground Eglinton Crosstown West Extension stations will begin with the excavation and building of station boxes along Eglinton Avenue West.
- These stations are located at Martin Grove Road, Kipling Avenue, Islington Avenue and Royal York Road.
- A station box is an underground box-like structure that forms the main body of a transit station.
- Construction for the four station boxes will occur simultaneously.



Example of a station box (Renforth Drive)

# Scope of work

## Station box works include:

- secant piling and excavation for four underground station boxes – Martin Grove Road, Kipling Avenue, Islington Avenue, and Royal York Road
- demolition and removal of concrete tunnel liners within the underground station boxes
- construction of a mud slab at the bottom of each station box, once excavation is completed
- Eglinton Avenue West realignment near Kipling Avenue
- utility works (utility relocations, Hydro, gas, watermains, etc.)





# Station box overview



**Martin Grove Road**



**Kipling Avenue**



# Station box overview



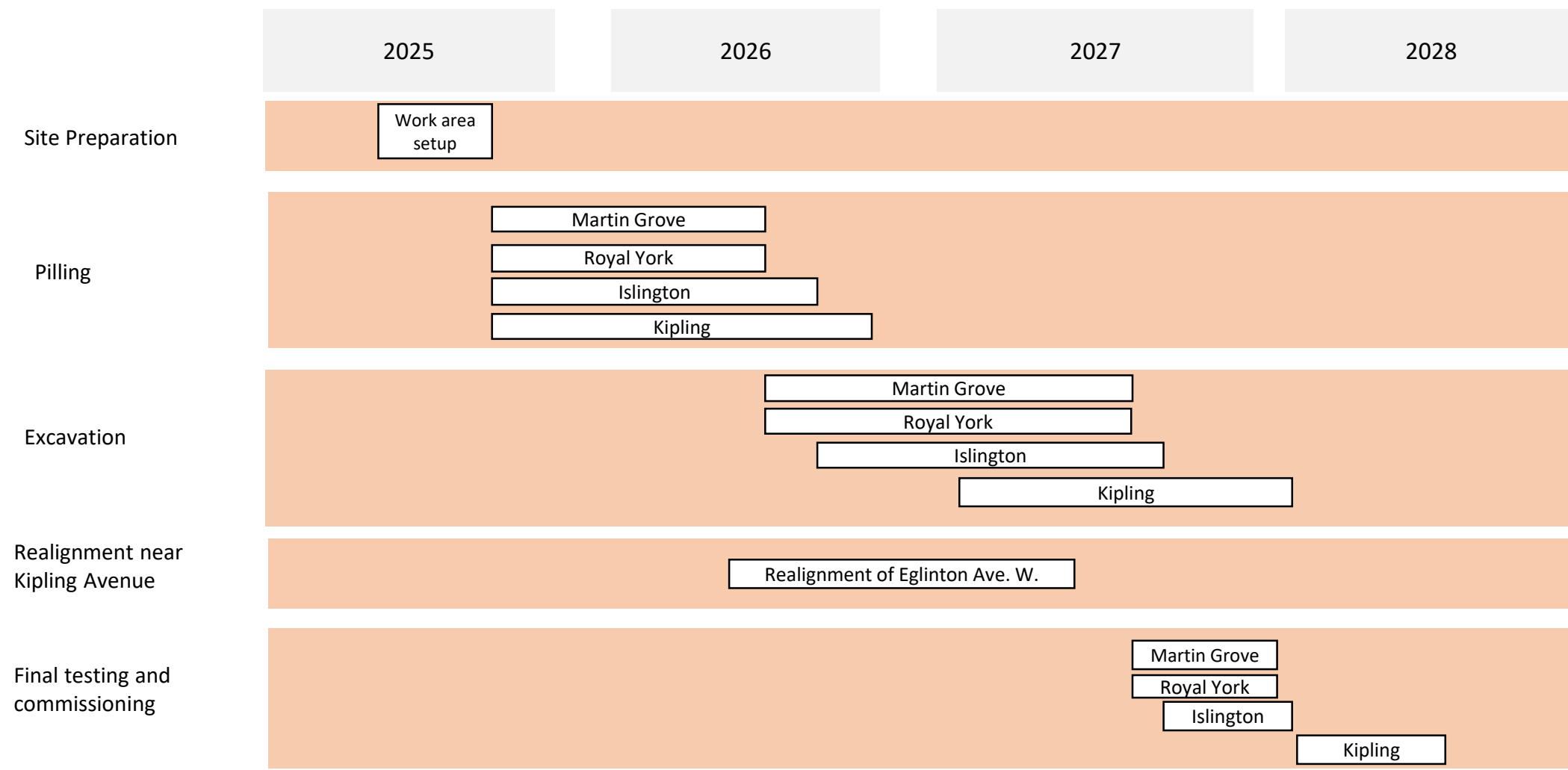
**Islington Avenue**



**Royal York Road**



# Project timeline – major works lookahead

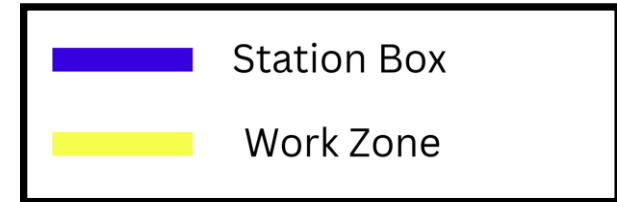
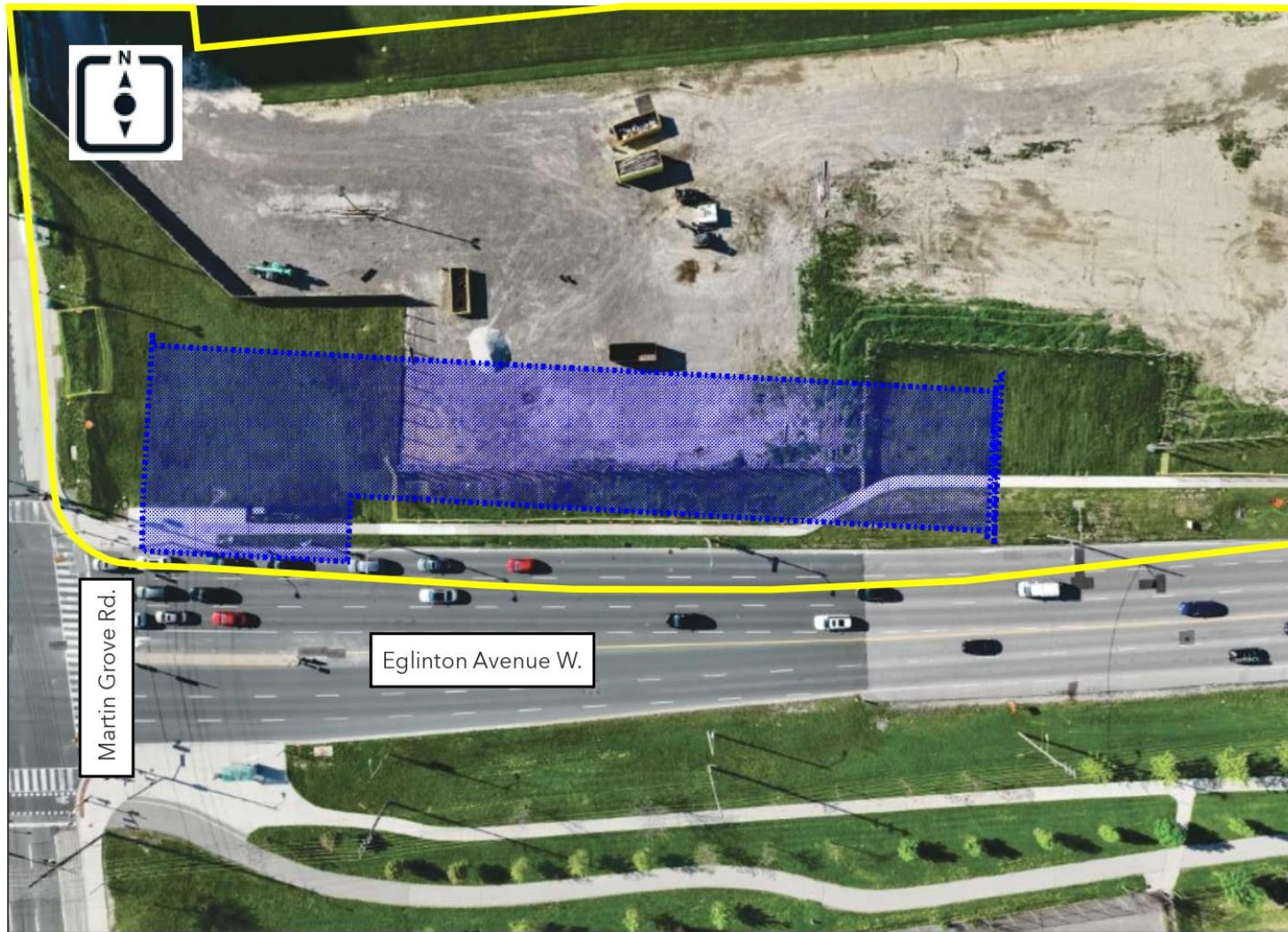


# What to expect during construction

- The working hours for construction are between **7:00 a.m. and 7:00 p.m.**
- WEC typically works Monday to Friday, however, occasional weekend work or overnight work may be required.
- Residents can expect to see construction lighting and hear noise from construction equipment, drills, excavators and trucks. Soundwalls will be installed at work sites closest to residential areas to mitigate noise.
- Lane reductions and pedestrian detours will be required to ensure everyone's safety. Further notification will be provided for every lane closure.
- Measures are being put in place to reduce dust, including the use of water sprayers and biodegradable dust suppressants.
- We are working as quickly as possible to minimize the impact to the neighborhoods and residences in the Eglinton Avenue West area.
- If you have any concerns, we are here to listen. Contact our 24/7 hotline: **416-202-8001** or email **EglintonWest@metrolinx.com**






# Map of work area – Martin Grove Road





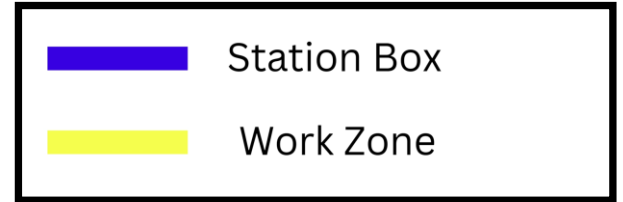
# Map of work area – Kipling Avenue



-  Station Box
-  Work Zone
-  Road Realignment



# Map of work area – Islington Avenue





# Map of work area – Royal York Road



-  Station Box
-  Work Zone



# Site preparation at four underground station sites

July 2025 – September 2025

- For the first phase of station box works, WEC will start with site setup for the station box construction at all four future underground station sites.

Work includes:

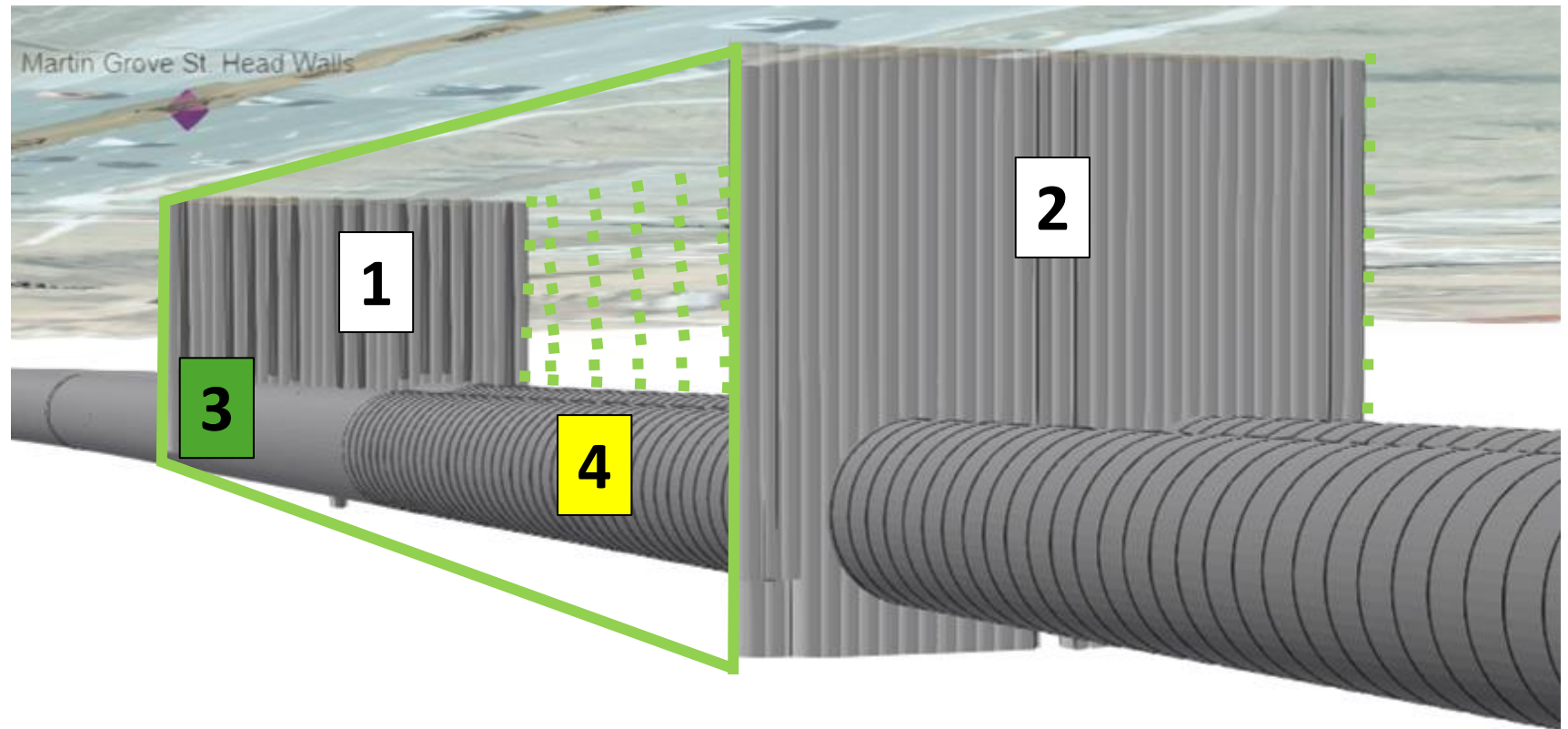
- installing fences and placing concrete barriers surrounding the work area
- installing noise barrier walls
- mobilizing equipment such as drill rigs, storage and other materials
- setting up site offices (trailers) for workers
- cutting and removing concrete curb and asphalt
- clearing, grubbing and grading



# Building a station box

WEC completed construction on the west and east pile walls for each underground station in 2023. To complete the full station box, WEC will build the north and south pile walls.

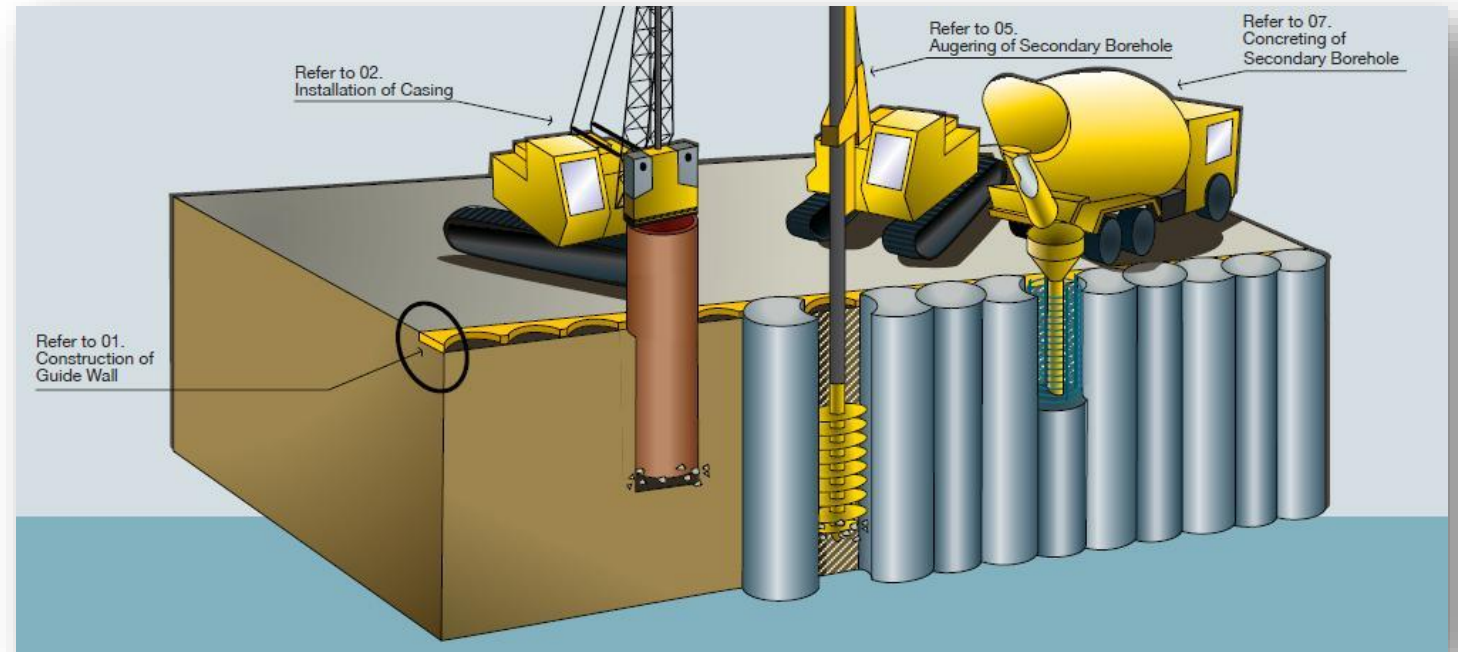
- 1** West pile wall (complete)
- 2** East pile wall (complete)
- 3** North and south pile walls to be constructed
- 4** Concrete tunnel liners to be removed



# What are secant pile walls?

A secant pile wall is a type of retaining wall constructed from interlocking concrete piles that overlap each other, forming a continuous, reinforced wall. These walls are designed to provide both ground retention and ground water control, making them suitable for excavation support. The entire structure will then be used in the next phase of construction for the future stations.

A concrete pile is a long column made of reinforced concrete, drilled deep into the ground, used as a foundation to support structures.



Source: Rail System, Secant Pile Wall Construction, railsystem.net



# Piling installation at four underground station sites

Fall 2025 – Late 2026

- For the second phase of station box works, WEC will be conducting piling installation at all four future underground station sites.

Work will include:

- piling, when crews drill columns of reinforced concrete into the ground to create the foundation and framework for the future underground station
- the use of heavy machinery, including the use of drill rigs to pile
- temporary lane closures



Example of drill rigs from previous work on the Eglinton Crosstown West Extension

# Noise barrier walls

**Height:** up to 16 feet

**Installation locations:** Kipling,  
Islington, Royal York

**Materials:** Precast Concrete

**Purpose:** Built to dampen and  
reduce noise from construction



Example of a noise barrier wall



# Monitoring

- Noise, air and vibration monitors are installed on the properties of residences, offices and commercial buildings in the vicinity of the construction. They are small, battery operated, noiseless units. They are located in the proximity of the Martin Grove Road, Kipling Avenue, Islington Avenue and Royal York Road sites.
- This equipment helps us measure and minimize noise and vibration throughout the project term to prioritize your safety and well-being.
- The project team will continually monitor the noise, air and vibration throughout the project term.



Air quality monitor



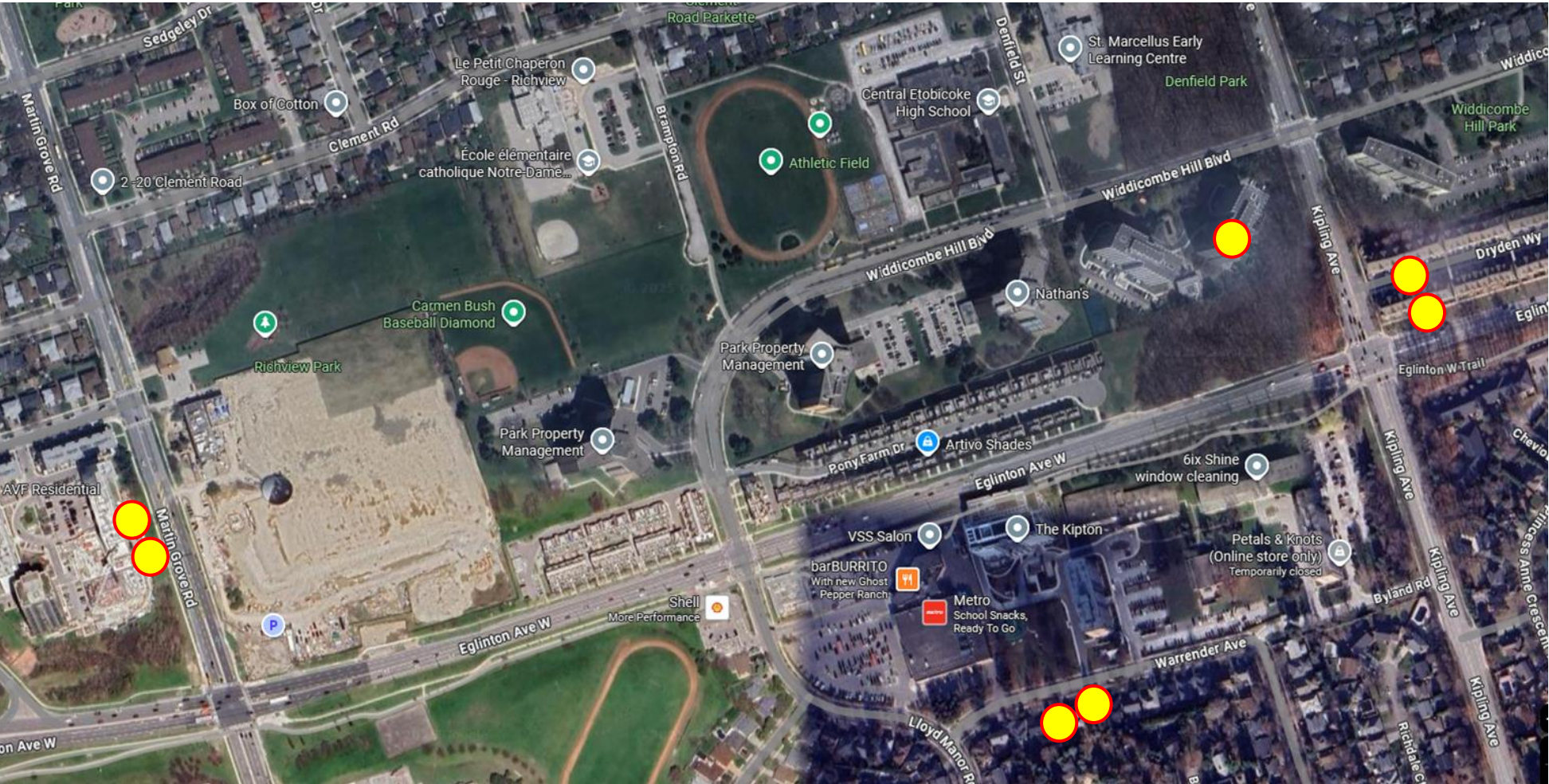
Noise monitor




Vibration monitor



# Monitor locations – Martin Grove Road to Kipling Avenue



 Air, vibration, and sound monitors installed to date



## Monitor locations – Wincott Drive to Islington Avenue




● Air, vibration, and sound monitors installed to date



# Monitor locations – Royal York Road



 Air, vibration, and sound monitors installed to date



# Safety Milestone – 2 million hours without a Lost Time Injury



Our team has reached over 2 million hours without a Lost Time Injury. In other words, no time was lost on the project due to an injury.

We are able to continue the project safely and on time through a strong safety culture and continuous improvement.