

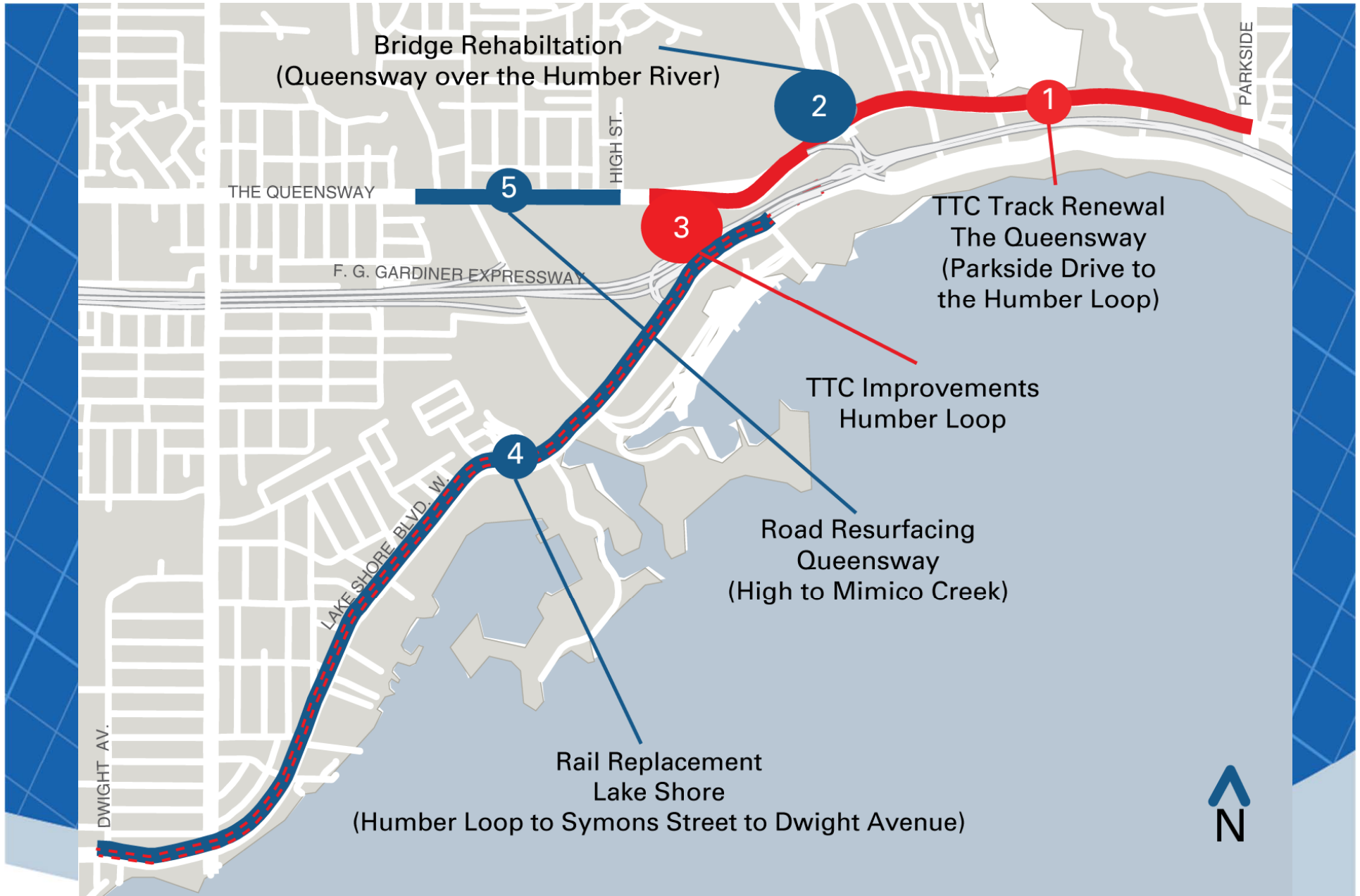
# 2017 ECS & TTC project Lakeshore Blvd. West

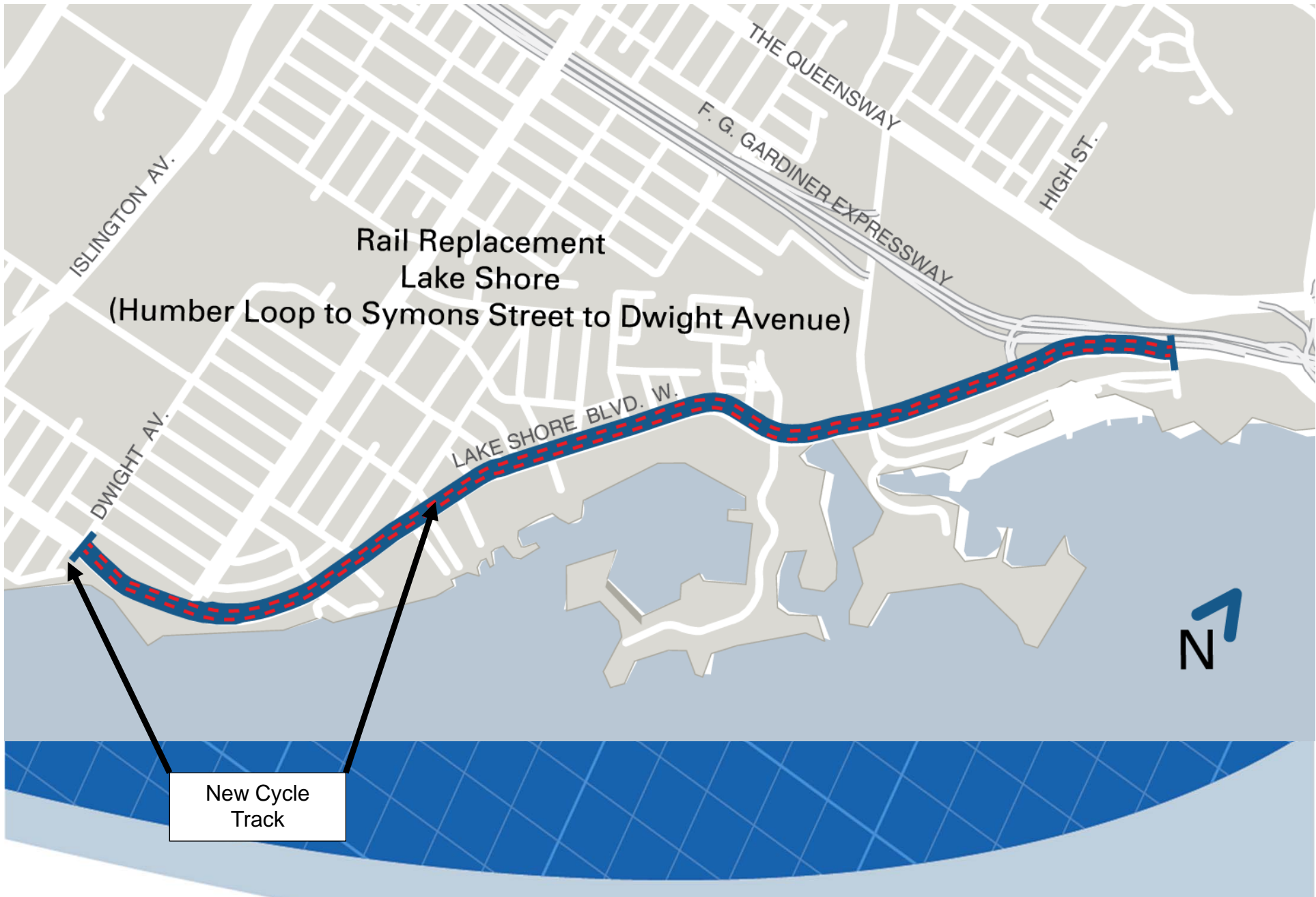
Project Update



Engineering & Construction Services  
TTC

August 31, 2017





# Planned Work

- TTC rail replacement on Lake Shore Blvd West
  - (from Humber Loop to Dwight Avenue)
- Installation of new 1.4 km, bi-directional cycle track from Norris Crescent to First Street
- Installation of 2 new platforms just west of the Humber Loop
- Road resurfacing and partial sidewalk reconstruction from Palace Pier Court to 120 metres east of Palace Pier Court
- Work Started on June 26, 2017

# Lake Shore Blvd West TTC track replacement

- **Humber Loop to Dwight Avenue**
  - Rail replacement due to galvanic (metal) corrosion resulting in rail gaps and episodes of arch-flashes
  - Streetcar platform reconstruction – minor road and driveway realignment
  - Construction of bi-directional cycling track
- **West of Humber Loop**
  - Remove and replace 2 platforms
- **East of Palace Pier Court**
  - Road resurfacing and Partial Sidewalk construction
- **Norris Street to First Street**
  - Bike lanes installation

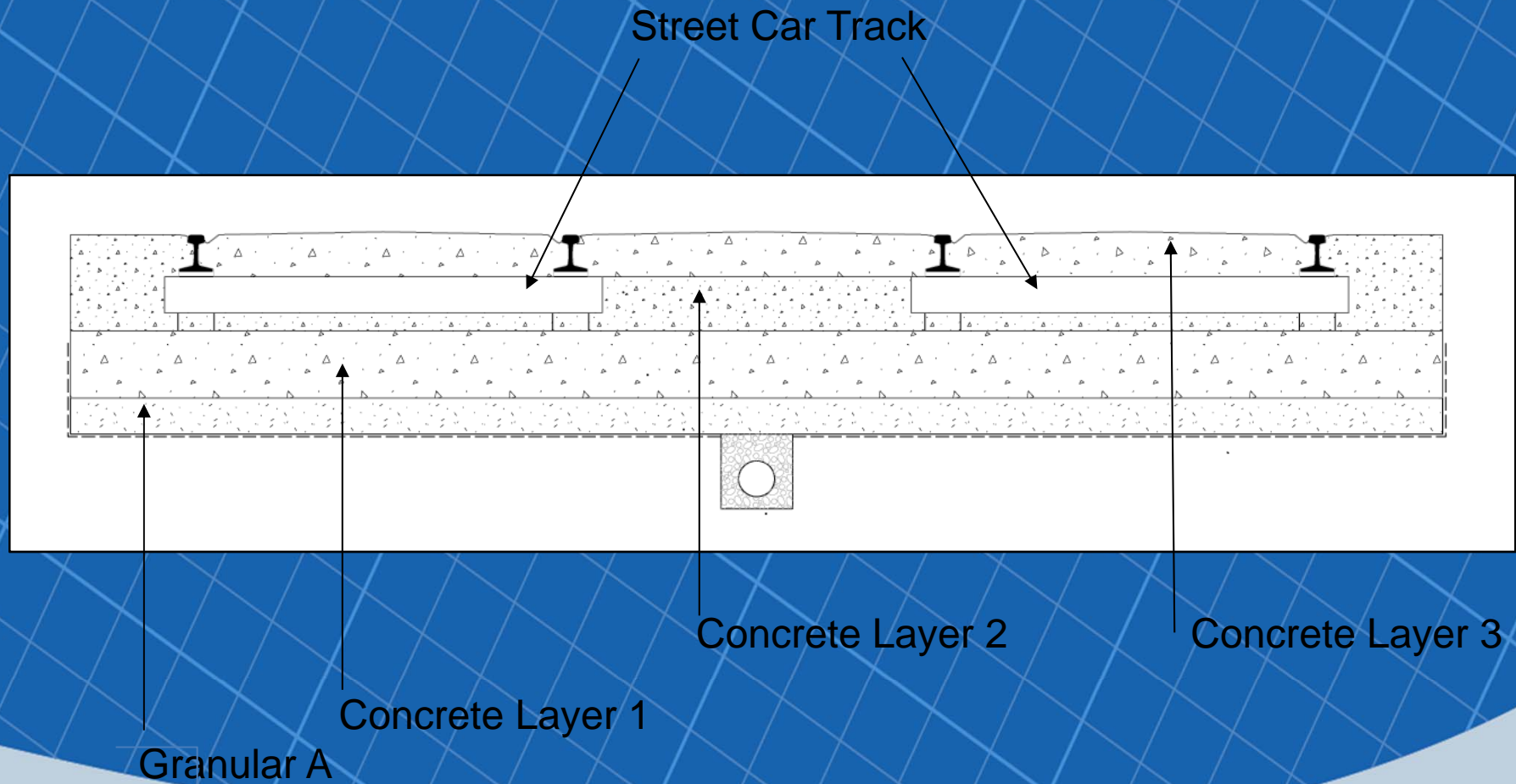
# Lake Shore Blvd West con't...

- Traffic maintained – one lane in each direction
- Partial closures during track work at intersections
- Overnight work by TTC track crews
- Parking restrictions will remain in place within the active construction zone

# Work Status on Lake Shore

- Why has work been slow moving?
  - There are three vintages of track construction along the length of the current limits of the Lake Shore track project.
  - When rail is constructed it typically involves three layers of concrete
  - Typically for this type of construction, we plan to remove only the top layer of concrete and the streetcar rails
  - Unexpected concrete layer separation conditions have increased the scope of the work and slowed construction for a period of time.

# Street Car Concrete Layers





# State of good repair – end of life cycle track replacement

- **Royal York Rd to the west side of Dwight Avenue last rehabbed in 1996**
  - We planned to remove only top layer of concrete to replace rail, *but in some sections concrete did not separate easily and (monolithic pour) therefore removal now includes base concrete.*
  - Delay due to contractor not pricing the work this way. *Plan and approvals for additional work was a slow process but it is finalized.*
- **Royal York Road to Symons last rehabbed in 1998**
  - *The top concrete layer in this is section is not separating as cleanly so it is moving slowly*
  - *The top 150 mm of concrete will be removed to expose the existing rail and fasteners for replacement wherever possible*

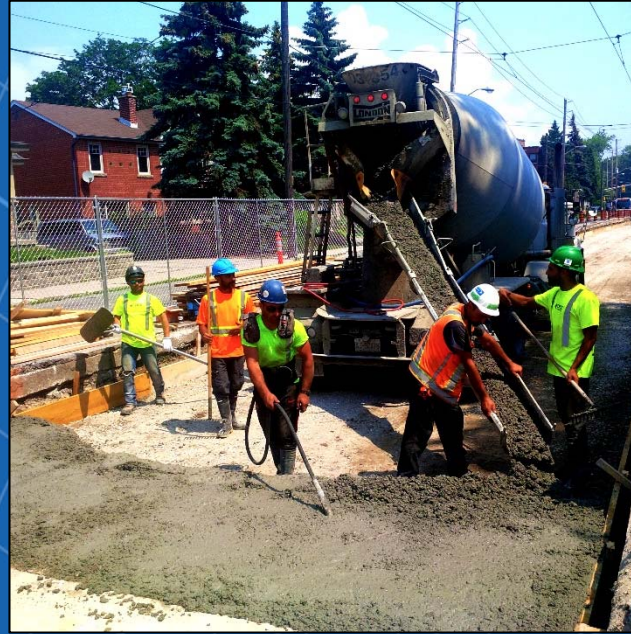
# State of good repair – end of life cycle track replacement

- **Symons Street to Humber loop last rehabbed in 2002.**
  - Due to accelerated galvanic corrosion to the base of the rail we are now undertaking a rail replacement only project between Humber Loop and Symons Street.
  - The top 150 mm of concrete will be removed to expose the existing rail and fasteners for replacement, and new top concrete will be placed.
  - The occurrence of premature corrosion of the rail will be addressed with the construction of a new sub-station inside the Humber Loop this year. *This section to move quicker as concrete layer separation expected to be good.*

# Construction Images



Cutting Concrete



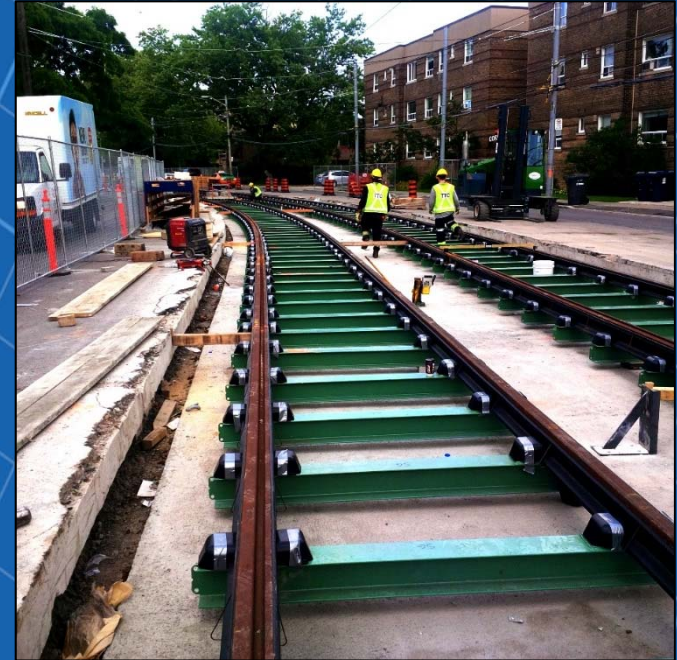
Pouring Base Concrete



Concrete Track

# Work Status

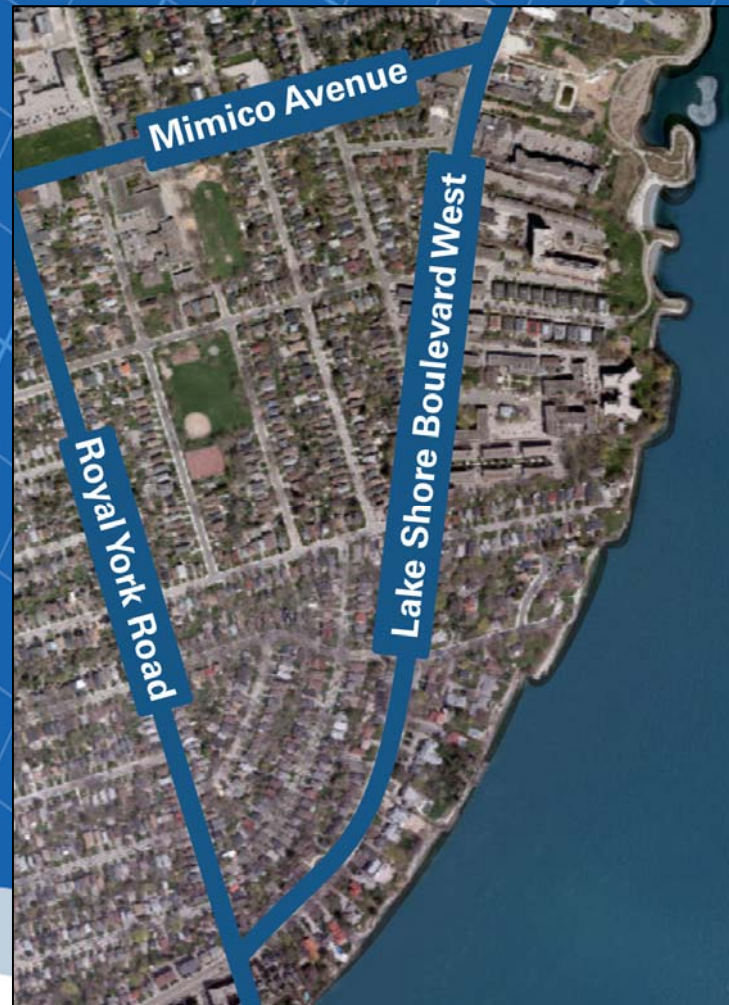
- To date the following work has been completed:
  - Track and concrete has been replaced from First Street to Royal York Road
- Due to the change of work methods larger work areas are needed than that first communicated in the mailed notice.
- This will impact available parking in a larger section than previously planned
- We are communicating with Green P to get answers regarding options and the parking lot



Putting Track On Base

# Next Steps

- Starting next week the contractor will continue excavation and concrete work east of Royal York to Mimico Avenue



# Next Steps Con't

- The contractor will complete the 1.4 km area of road / track along Lake Shore and then return to the west limit and start install the cycle track from First Street moving towards Norris Street
- During bike lane construction the curb lane of Lake Shore will be used by the Contractor and traffic will use the centre lanes
- The TTC track replacement work east of Norris Street will continue simultaneously

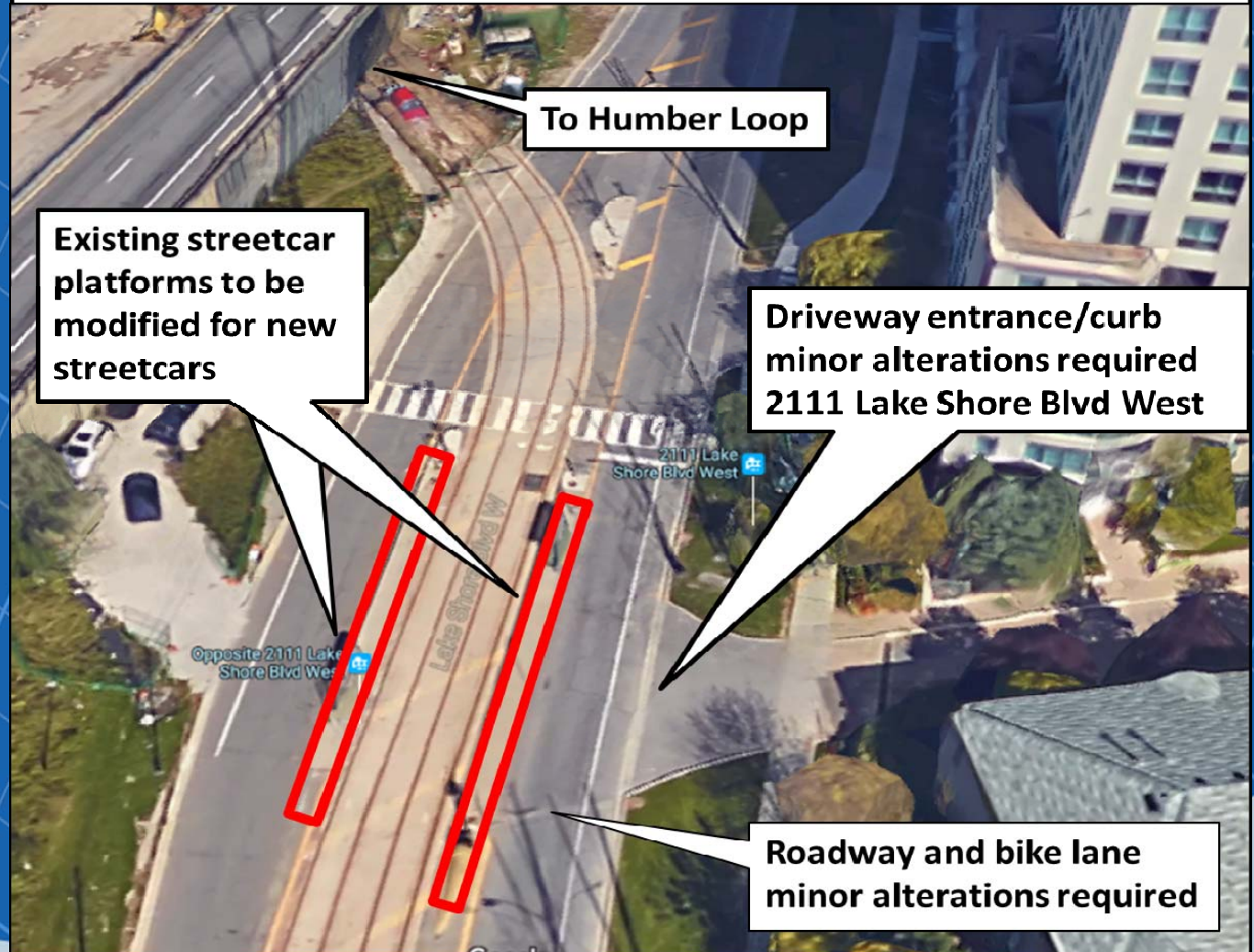
# Intersection Closures

- The following partial signalized intersection closures remain:
  - Symons Street
  - Hill Side Drive
  - Mimico Avenue
  - Superior Avenue
  - Burlington Street
  - Legion Road
  - Park Lawn/Marine Parade
  - Brookers Lane
  - Palace Pier Court
- Dates and localized notices will be provided

# Streetcar platforms reconstruction

- Platforms to accommodate for new low-floor accessible streetcars

## 2111 Lake Shore Blvd West – just west of Humber Loop





# Streetcar platforms - related work

## Platforms

- Existing: 1.2m wide x 23m long
- New: 2.4m wide x 30m long

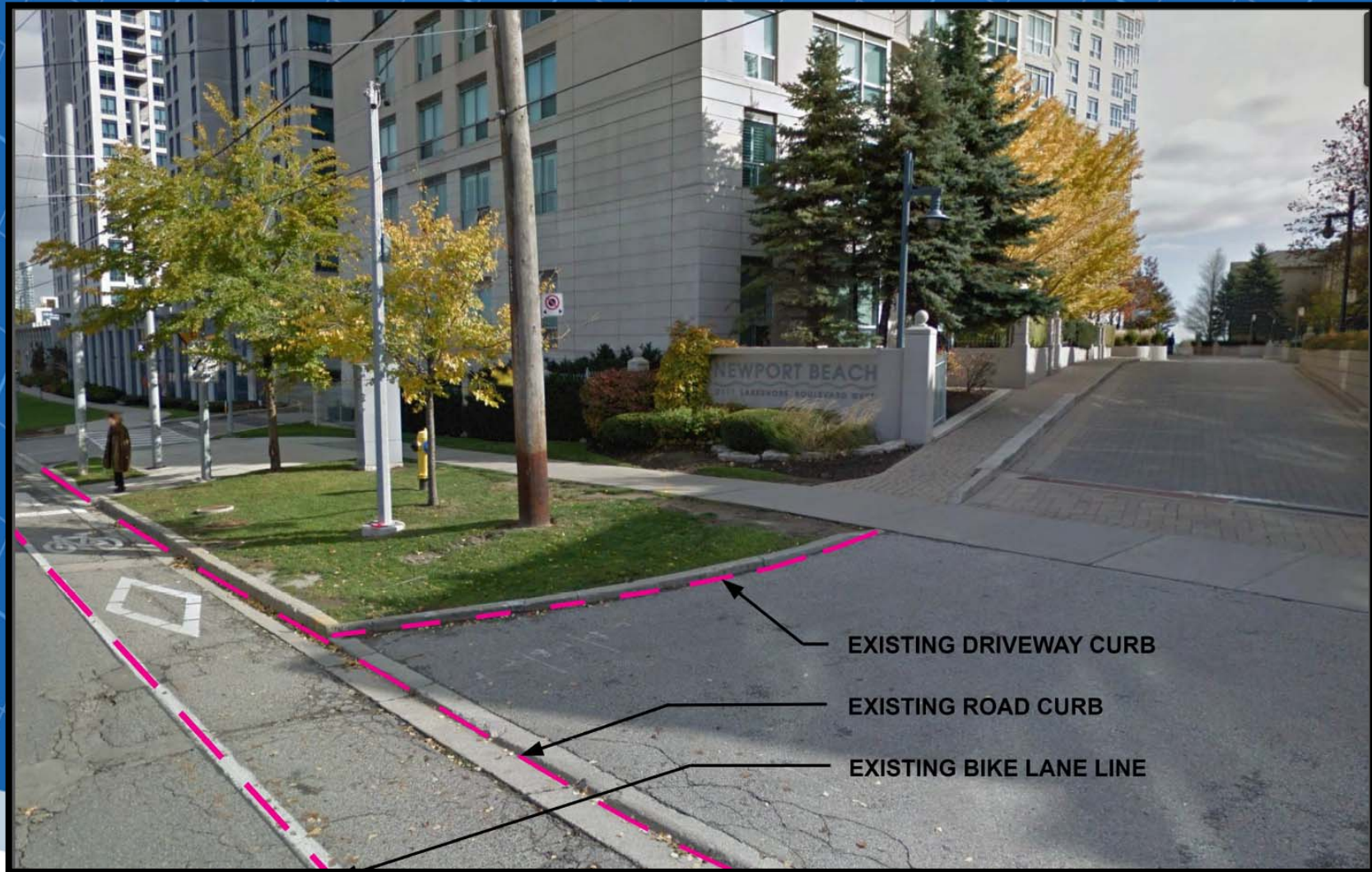
## Roadway - Lake Shore Blvd West

- Alterations: new platform dimensions require moving south curb lane by 0.63m to the south for a length of approximately 57m
- Eastbound bike lane: minimal change

## Driveway - 2111 Lake Shore Blvd West

- Vehicle access maintained during work with some restrictions
- Alterations: new platform dimensions and roadway widening require the throat of driveway to be widened, which will improve egress of larger vehicles/emergency vehicles from residential condo complex

# Eastbound roadway and driveway at 2111 Lake Shore Blvd West Existing configuration



# Eastbound roadway and driveway at 2111 Lake Shore Blvd West Proposed completed configuration (with wider driveway and curb relocation)



# Changes to work plan

- We anticipate that we will not complete the streetcar platforms under this contract and are working with TTC to confirm the construction schedule for Platform Work
- We anticipate all the track work shall be completed by December 30, 2017, but can provide a more accurate update in late-September.
- The change of concrete / track work may impact the budget but could be covered by our contingency plan – again more information will be available in late-September.

# Humber Loop

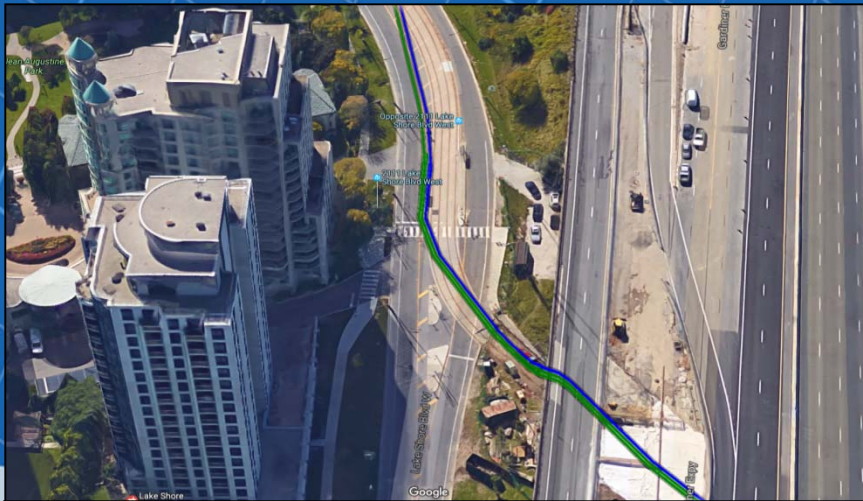
- Tunnel walkway: Closed April 24, 2017 to Spring 2018\*
  - \* end date is subject to change
- Humber Loop will be a major work zone area for various infrastructure improvements this year including
  - new streetcar tracks,
  - accessible platforms,
  - new/wider tunnel walkway,
  - roof replacement of the service building,
  - new sub-station building and,
  - underground conduits for electric cables for the sub-station.
  - Rail installation; summer/fall 2017
- The planned work will enhance TTC's service/rail system
  - The new Electric sub-station will stop galvanic corrosion, underground conduits beneath the track for substation; life cycle track replacement (new low floor streetcar operation) accessibility platform, new spur track to house low floor streetcar when required.

# Humber Loop

- New track and realigned under Gardiner and Metrolinx bridges, new standard size ped walkway.
- When work started, the project teams learned about unforeseen circumstances involving structural complexities requiring additional work/design
- Hydro, Metrolinx rail line Bridge – City for Gardiner Expressway all had to approve the designs in order to ensure the integrity of structures are protected during and post work.
- Construction Plan is to concentrate on The Queensway portion of the streetcar turn-back inside Humber loop by late January 2018.



**Humber Loop entrance CLOSED from The Queensway**



**Lake Shore streetcar tracks through underpass to/from Humber Loop – Humber Bay Shores condos**



**Humber Loop entrance CLOSED from Lake Shore Blvd**

**Underpass walkway to/from TTC Humber Loop. Humber Loop provides short-cut to access Sobeys**

# Streetcar Service Plan Target

*\*subject to change / work conditions*

- End of January 2018
  - Return Queen streetcar service west of Roncesvalles to Humber loop for turn-back eastbound.
- June 2018
  - return streetcars Humber Loop to Long Branch Loop.



# Ongoing Communication

- Day-to-day issues with construction / traffic can be communicated with Shahid
- TTC issues should be brought to Diego's attention
- Propose that the City work out a bi-weekly update email to BIAs through the remainder of construction / website will be updated bi-weekly as well
- Visit the next main area with an update reminder that work is approaching and anticipated arrival
- Print Construction Update for mail distribution with current details and anticipated work going forward

# PROJECT LEAD / CONTACT DETAILS

Project	Name
TTC Track on Lakeshore	Shahid Virk, 416-338-5542; shahid.virk@toronto.ca Diego Sinagoga, 416-393-2197. diego.sinagoga@ttc.ca
Humber Loop	Diego Sinagoga, 416-393-2197. diego.sinagoga@ttc.ca
website	<a href="http://www.toronto.ca/queensway-lakeshoreconstructionprojects">www.toronto.ca/queensway-lakeshoreconstructionprojects</a>