

PORT

2024

August 2021

Port Lands Flood Protection & Lake Shore Boulevard East Public Information Centre

LANDS

Canada

Ontario



Toronto



Housekeeping

- This meeting is being recorded and will be posted to YouTube. Only presentations and presenters will be visible in the recorded version.
- Please keep your camera off
- Enter your questions in the chat
- Visit <https://PortLandsTO.ca/construction/lake-shore-boulevard-east-project/> for background information on the project



Agenda

1. Project Overview: Port Lands Flood Protection
2. Port Lands Flood Protection Construction Update
3. Project Overview: Lake Shore Boulevard East
4. Lake Shore Boulevard East Construction Overview
5. Closures & Detours: Roads, Cycling and Pedestrian Facilities
6. Consultation with Road & Trail Users
7. Next Steps

Project Overview: Port Lands Flood Protection

The Big Picture



Project Area



Before Flood Protection



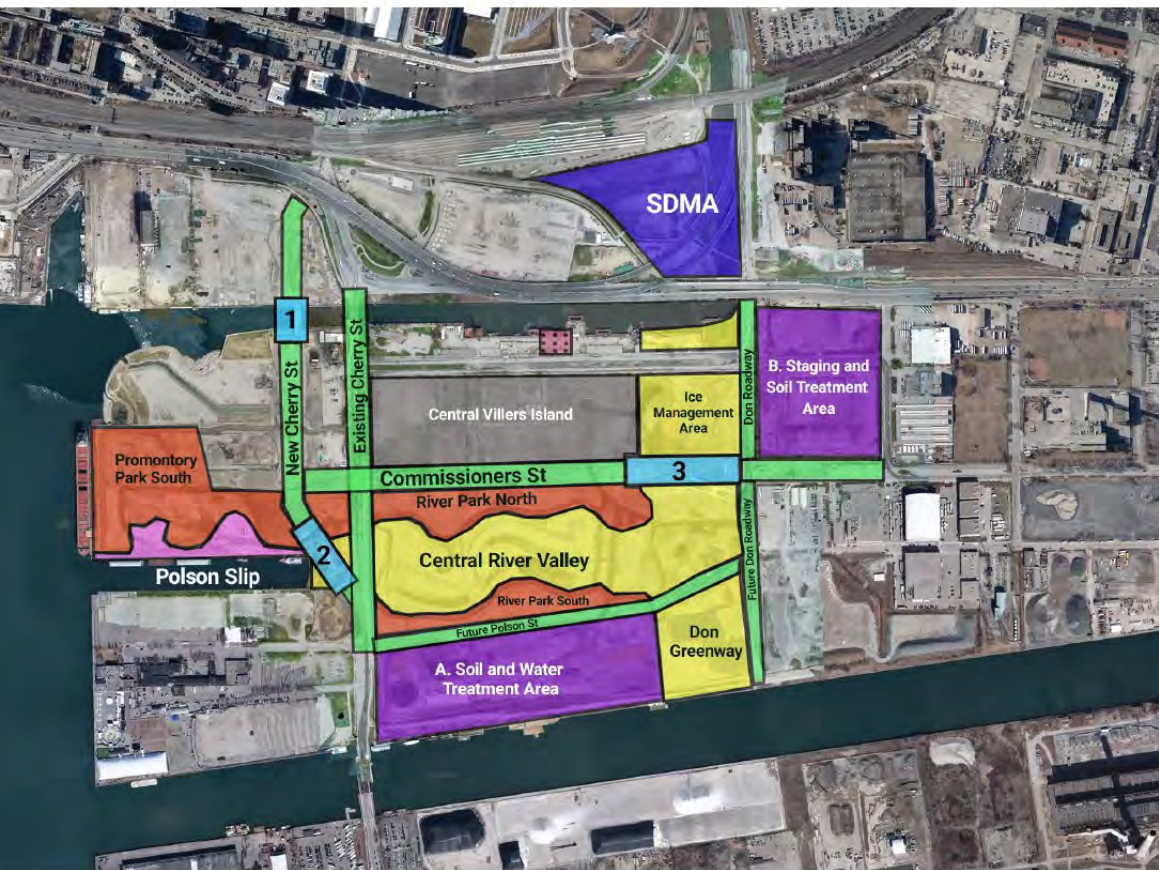
After Flood Protection: What We'll Build by 2024



Construction Progress: Port Lands Flood Protection

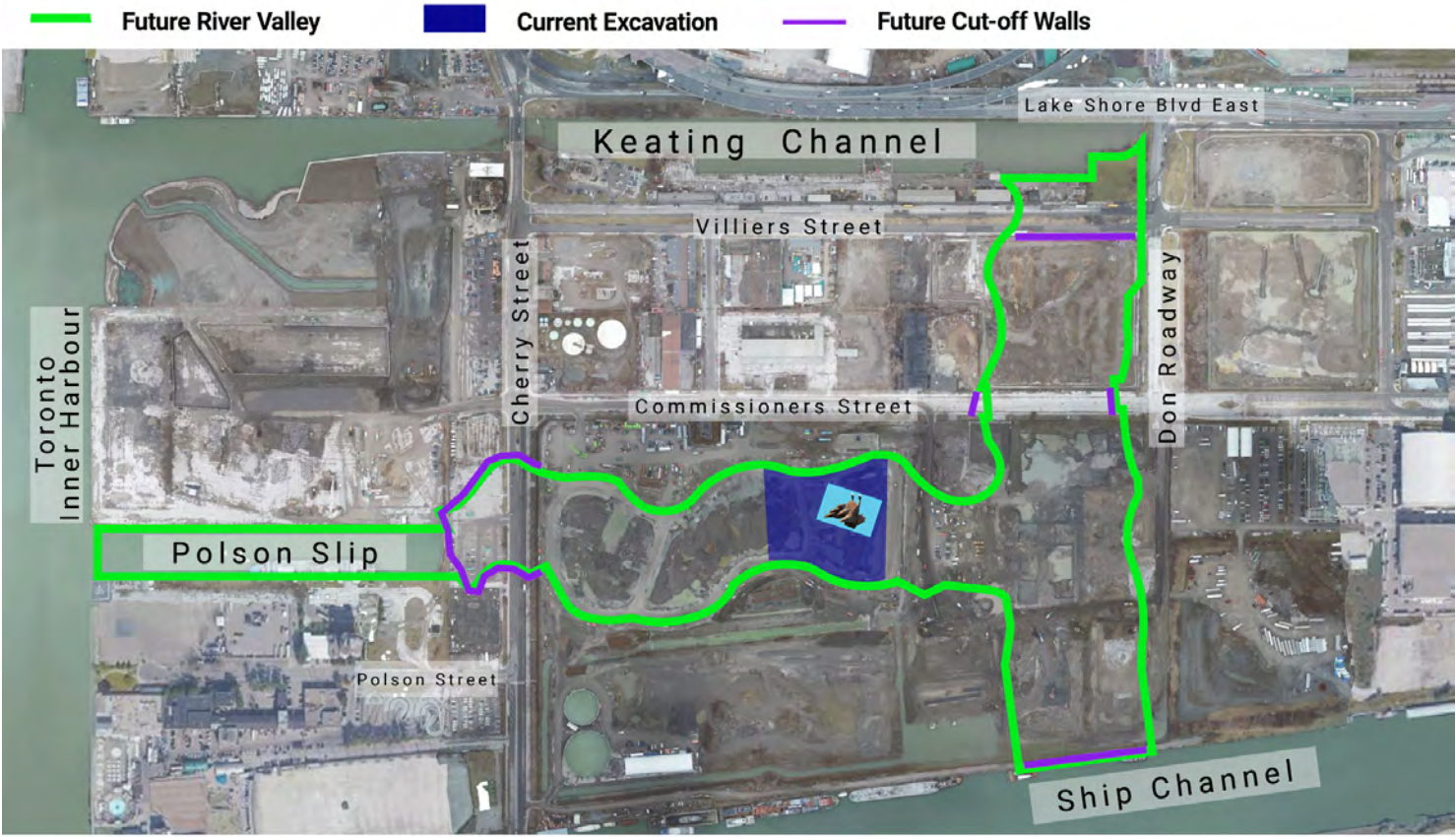
Construction Update

July-September 2021



- Roads**
 - **New Cherry St:** install utilities, surcharging
 - **Commissioners St:** install utilities, surcharging, ground improvements
 - **Don Roadway & Future Don Roadway:** ground improvements, flood protection landform
- Bridges**
 - **1 Cherry St North Bridge:** install bridge deck
 - **2 Cherry St South Bridge:** excavation and install river finishes below bridge location
 - **3 Commissioners St Bridge:** install bridge deck, install east half superstructure
- Parks**
 - **Promontory Park South:** dockwall reinforcement, site preparation, structural fill placement
 - **River Park North:** Relocate Fire Hall, surcharging
 - **River Park South:** Surcharging, bike bridge foundation works
- River Valley**
 - **Central River Valley:** excavation and dewatering, install liner & river finishes, install wetland habitat features, install utilities
 - **Ice Management Area:** dewatering and install liner
 - **Don Greenway:** dewatering and install liner & river finishes, dockwall reinforcement, install fish gate
- Polson Slip Naturalization**
 - Atlas Crane stabilization, Canoe Cove excavation, install underwater liner
- Staging and Treatment Areas**
 - **A:** Soil and water treatment
 - **B:** Construction staging and soil treatment
- Sediment & Debris Management Area (SDMA)**
 - Site preparation, install utilities
- Central Villiers Island**
 - Soil stockpiling and fill placement
- Future Stormwater Treatment Facility**
 - Site preparation, excavation

Excavation Progress



June 19, 2020



Relocating Fire Hall 30



River Valley: Tree/Root Wad installation



Cherry Street South Bridge Excavation



Commissioners Street Bridge



Project Overview: Lake Shore Boulevard East

One bridge, two projects



Why combine these projects?



Adding parts of the approved Gardiner East project to the ongoing Port Lands Flood Protection project means:

- **Lower cost**
- **2 years fewer of traffic disruption:** A one-time disruption versus two separate construction periods.
- **Safer:** Removing the Gardiner ramps makes construction on Lake Shore safe for crew and road users
- **New green space and bike lanes four years early:** Instead of leaving an interim condition on Lake Shore Boulevard East, by 2024 the final design will be complete from the new bridge east to Carlaw, including separated bike lanes and linear park

Project Area



Removing Ramps from Gardiner Expressway to Logan

The first step: removing the Gardiner ramps from west of the Lake Shore Bridge to Logan Avenue as approved in the Gardiner East Environmental Assessment



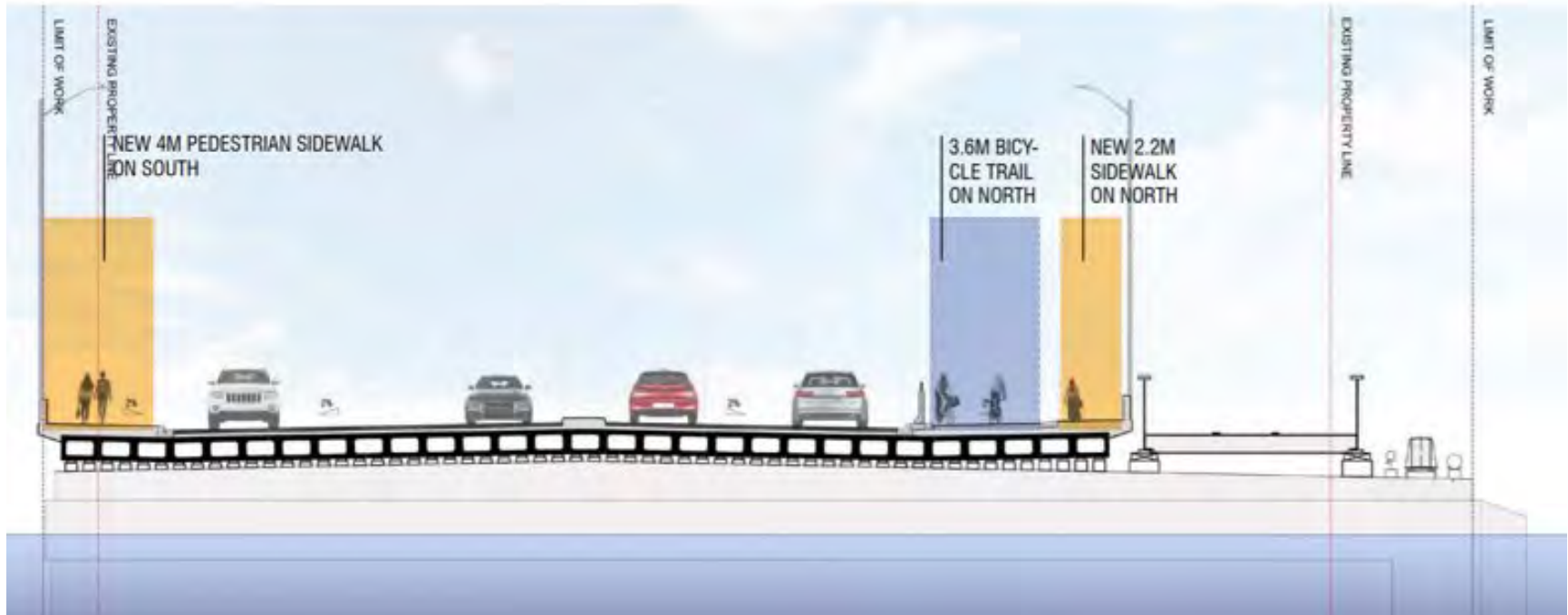
Rebuilding the Lake Shore Bridge

Lengthening the Lake Shore Bridge to cross a wider Don River mouth



Rebuilding the Lake Shore Bridge

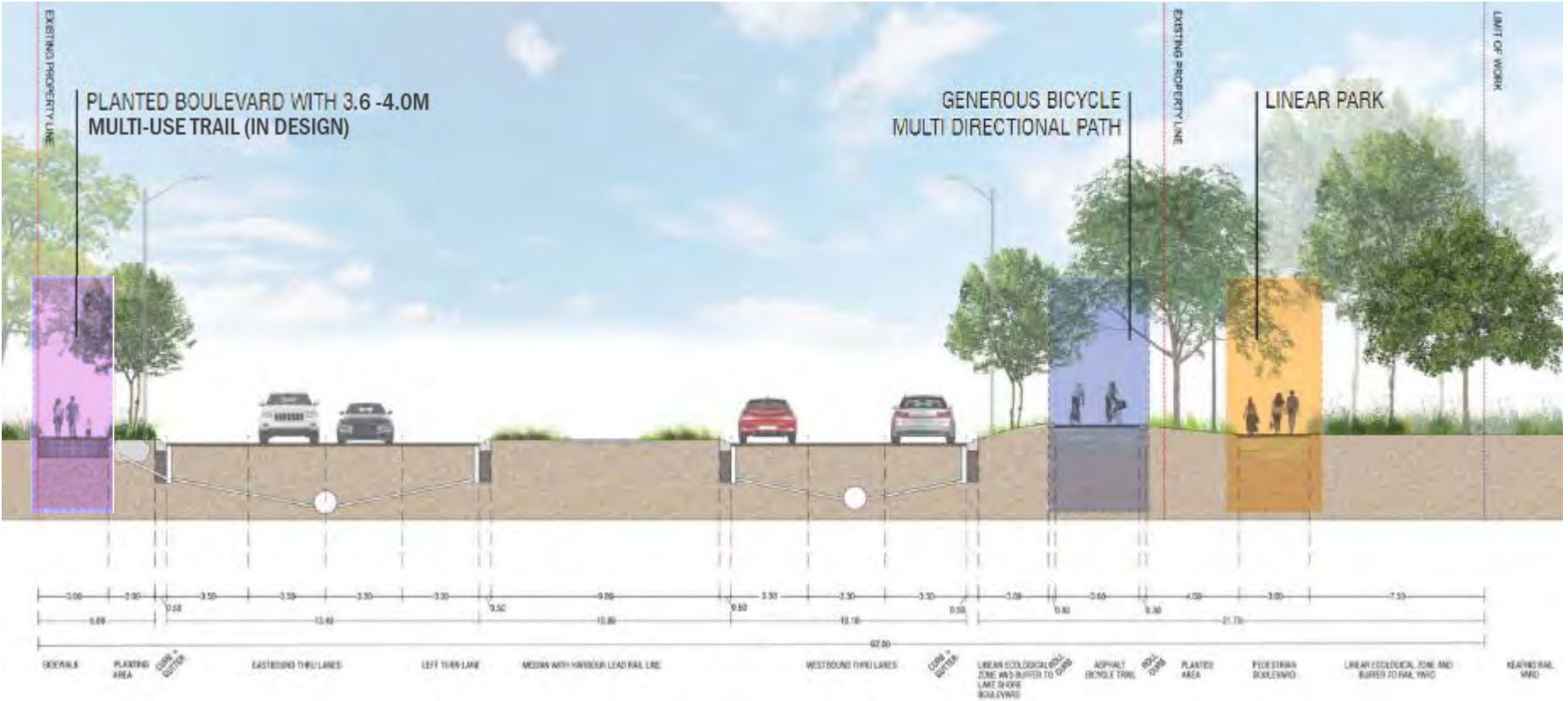
Also widening the Lake Shore Bridge and adding pedestrian and bike lanes



Looking west

New configuration for Lake Shore Boulevard East

Rebuilding Lake Shore Boulevard East from the Lake Shore Bridge to Carlaw Avenue



Representative cross-section: looking west

Existing Condition: Looking west at Carlaw / Lake Shore

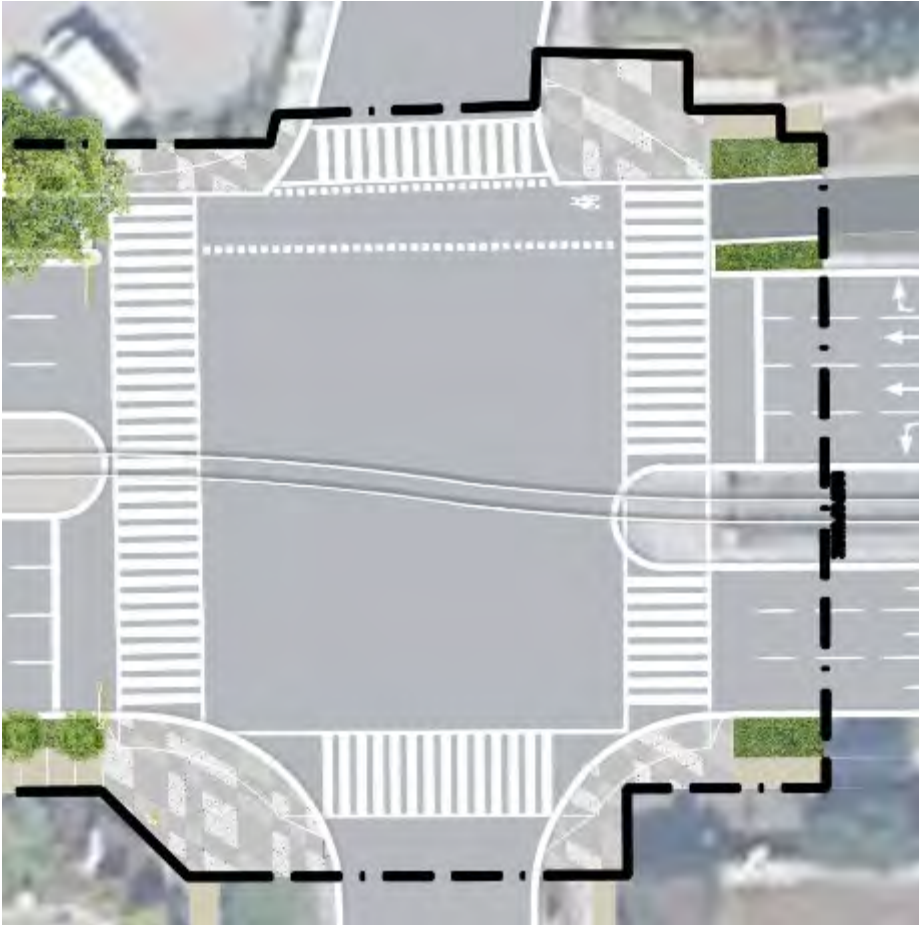


Low-contrast pedestrian markings

Multi-use trail

Limited planting, biodiversity

Future Condition: Carlaw / Lake Shore Intersection



- A safer intersection:
 - Wide, high-contrast pedestrian markings
 - Separated Multi-use Trail and sidewalks
- Increase biodiversity of plantings

Existing Condition: Looking West at Booth / Lake Shore



Future Condition: Booth / Lake Shore



- A safer intersection:
 - New north/south crossing to existing park, with signal for pedestrians
 - Controlled intersection with signals
 - Separated Multi-use Trail and sidewalks
- Increased biodiversity of plantings

Existing Condition: Looking West on North Side of Lake Shore



Future Condition: Looking West on the North Side of Lake Shore



Existing Condition: Looking West Toward Don Roadway



Gravel median, shadow
of overhead ramps

Struggling plant life
roadside

Future Condition: Looking West Toward Don Roadway



Existing Condition: Looking East at Don Roadway



Existing Harbour Lead
Rail Line, wild planted
buffer

Multi-use trail

Future Condition: Looking East at Don Roadway



Existing Condition: Don Roadway Intersection at Lake Shore Bridge



No crossing on west
side

Narrow safety strip, no
pedestrian or cycling
access

Future Condition: Don Roadway Intersection at Lake Shore Bridge



A safer intersection:

- New pedestrian crossing on west side
- Separated multi-use trail and sidewalks

Lake Shore Boulevard East Construction

Current Schedule

ACTIVITY	ANTICIPATED START	ANTICIPATED END
Gardiner / Logan Ramps Closure	September 1, 2021	N/A
Gardiner / Logan Ramps Removal	September 2021	October 2021
Lake Shore Bridge Works (over Don River)	October 2021	January 2024
Lakeshore Blvd. Reconfiguration from Lake Shore Bridge to Carlaw Ave.	November 2021	December 2024



Gardiner/Logan ramps from Lake Shore Bridge (west of Don Roadway) to Logan

Managing Traffic During Construction

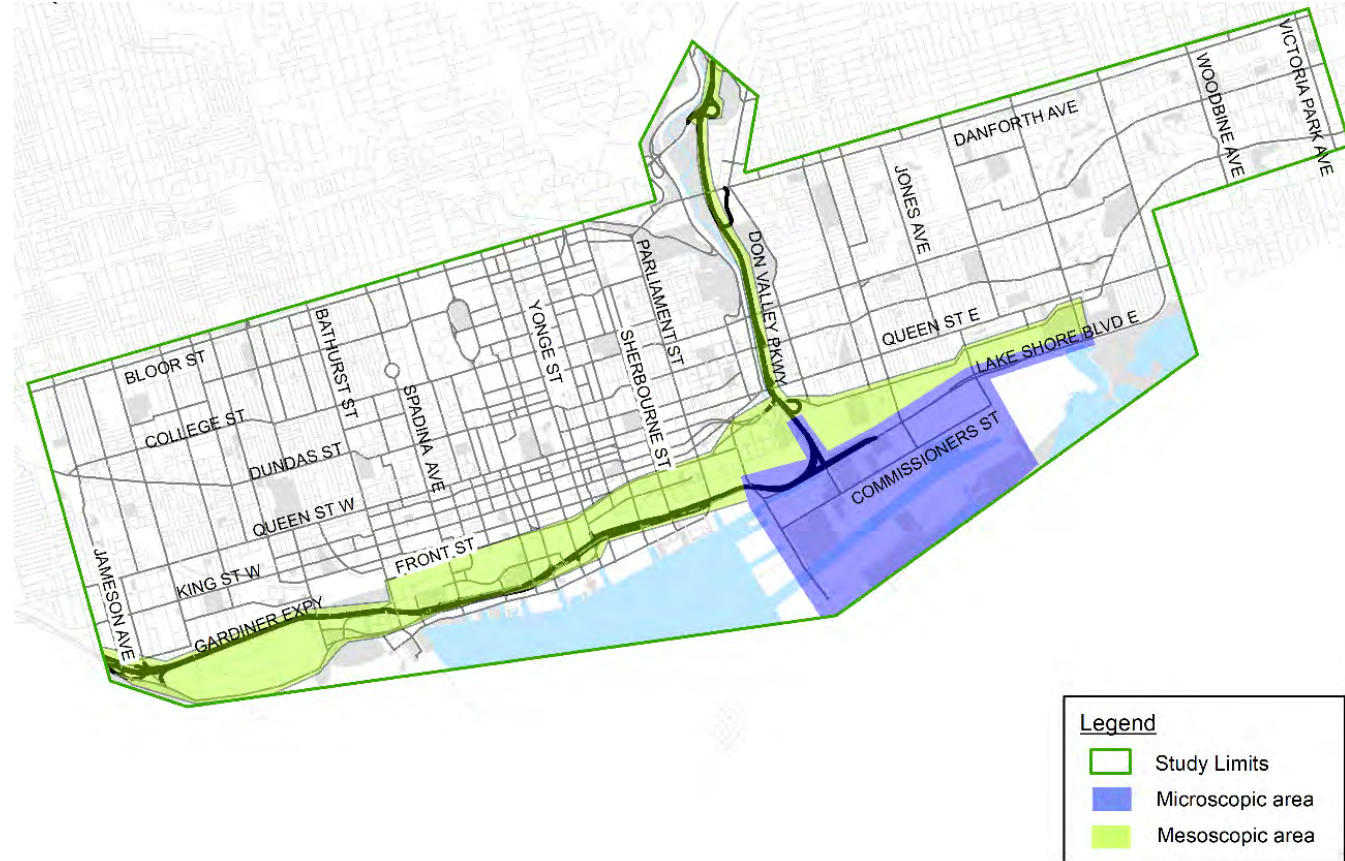
Challenges:

- This is a high-traffic area for cars, trucks and cyclists
- With removal of Logan off-ramps, more traffic at:
 - Jarvis east-bound off-ramp
 - Don Roadway and Lake Shore Boulevard East
- Road closures and lane diversions mean changes to routes/detours for road and trail users

Traffic Study: Trucks and Cars

Key findings:

- Drivers will still choose Lake Shore Boulevard after Gardiner/Logan ramps are removed
- Small percentages will use E-W Links



Traffic Management: Challenges and Mitigations

- Traffic Management Plan developed with input from City, residents and businesses, road and trail users
- Traffic operations to be monitored during construction, adjustments will be made as needed

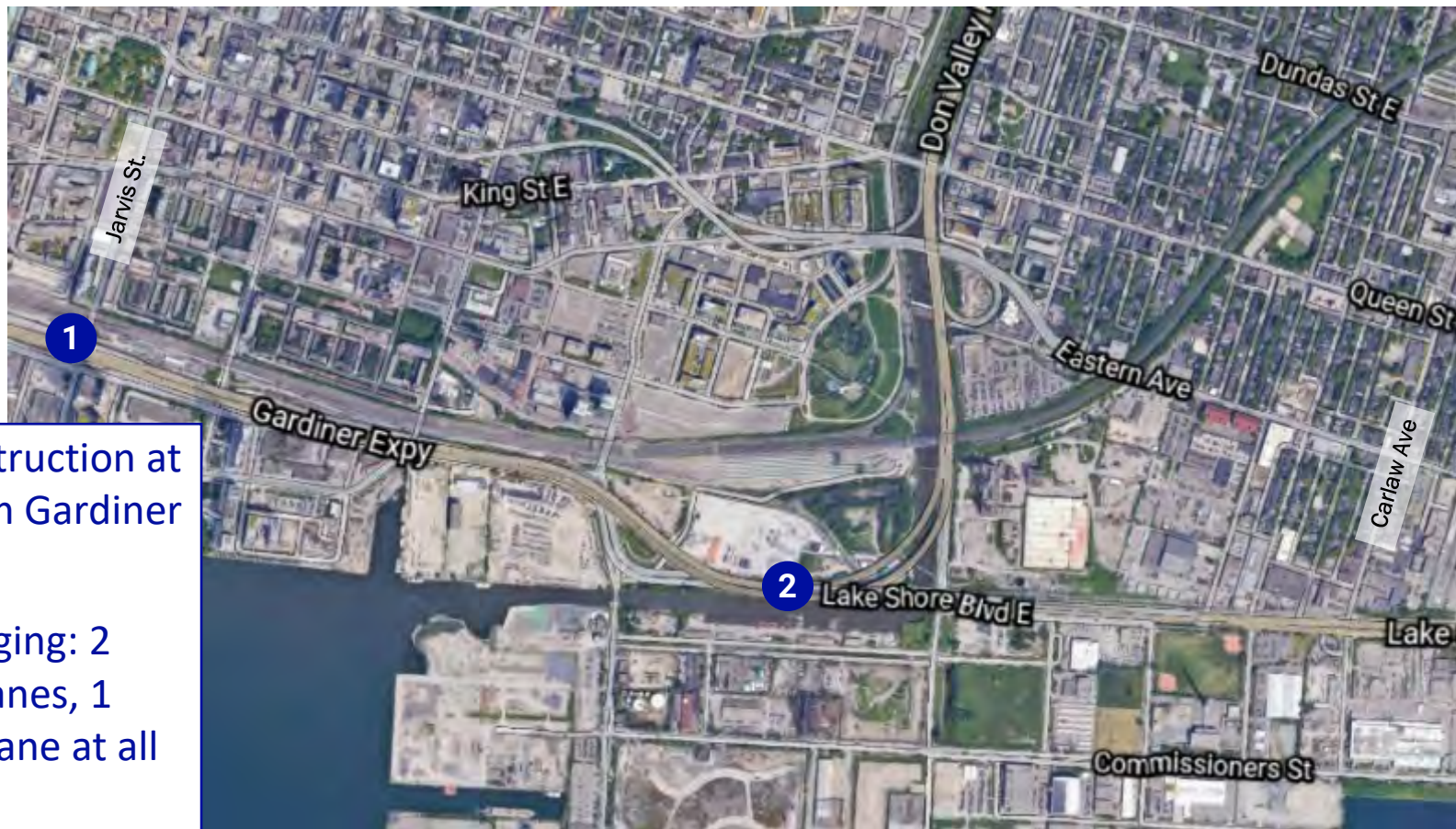
Challenges:

- This is a high-traffic area for all modes
- With removal of Logan off-ramps, more traffic at:
 - Jarvis east-bound off-ramp
 - Don Roadway and Lake Shore Boulevard East
- Changes to routes/detours for vehicles, transit, cyclists and pedestrians

Mitigations:

- Strategic staging:
 - Coordinate closures with other projects
 - Keep eastbound and westbound lanes moving on Lake Shore
- Road reconstruction
 - Lower Jarvis / LSB intersection
 - Cherry / LSB intersection
 - LSB East – maintain east-west lanes
- Signal timing adjustments at 80+ locations
- Signed detour roads
- No adverse effects to public transit system

Traffic Mitigations



1 Road reconstruction at offramp from Gardiner to Jarvis

2 Strategic staging: 2 eastbound lanes, 1 westbound lane at all times

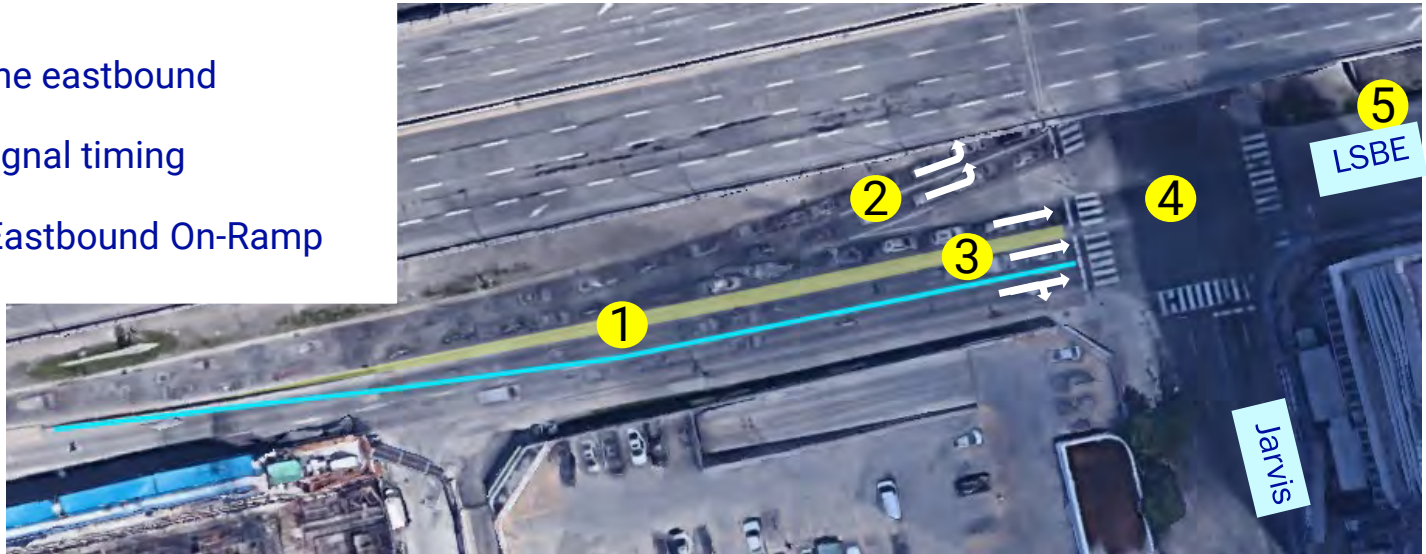
Traffic Mitigations

Zooming in: Jarvis and Lake Shore

- Allow more eastbound traffic from Gardiner Eastbound onto Lake Shore by reallocating a lane Eastbound to Lake Shore Boulevard from Gardiner

1. Extra lane on offramp
2. Dual left turn
3. Extra through lane eastbound
4. Eliminate split signal timing
5. Close Gardiner Eastbound On-Ramp

- Remove median
- New median



Traffic on Local Streets – Ongoing Monitoring

- We'll monitor feedback and traffic during construction. If traffic is a problem for neighbourhood streets, we can:
 - Make changes to existing one-way streets
 - Implement turning restrictions
 - Add dynamic speed warning signs on neighbourhood streets



Outlined on this map: Local streets to be monitored.

Closures, Detours: Roads, Cycling and Pedestrian Facilities

How We'll Communicate Upcoming Closures, Detours

Before construction:

- We developed our Traffic Management Plan with input from our Construction Liaison Committee made up of businesses and residents. As part of this process, we also consulted with people who use the roads and cycling facilities that will be affected by construction.

During construction:

- Clear road detour signs
- Information signs with details about how to find construction details or contact us
- Traffic notices (mailed, digital)
- Project website: PortLandsTO.ca/construction

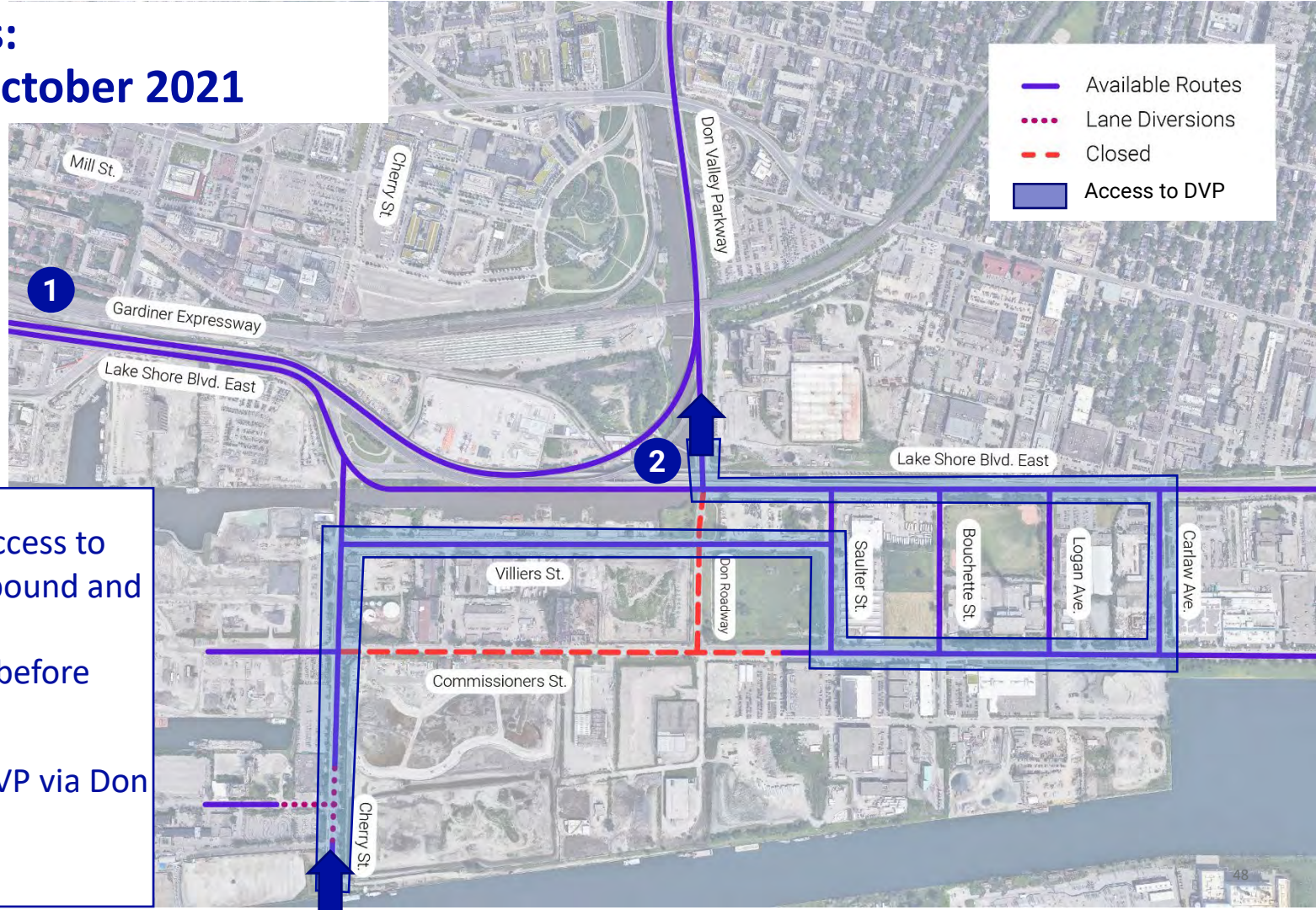
Sign up for digital notices by emailing info@waterfrontoronto.ca

Road Closures, Detours

Weekdays

September-October 2021

Road Detours: September-October 2021



Road Closures, Detours

Weekends Only
September-October 2021

Gardiner Ramps Removal: Weekend Work



Road Detours: Weekends Only

September – October 2021

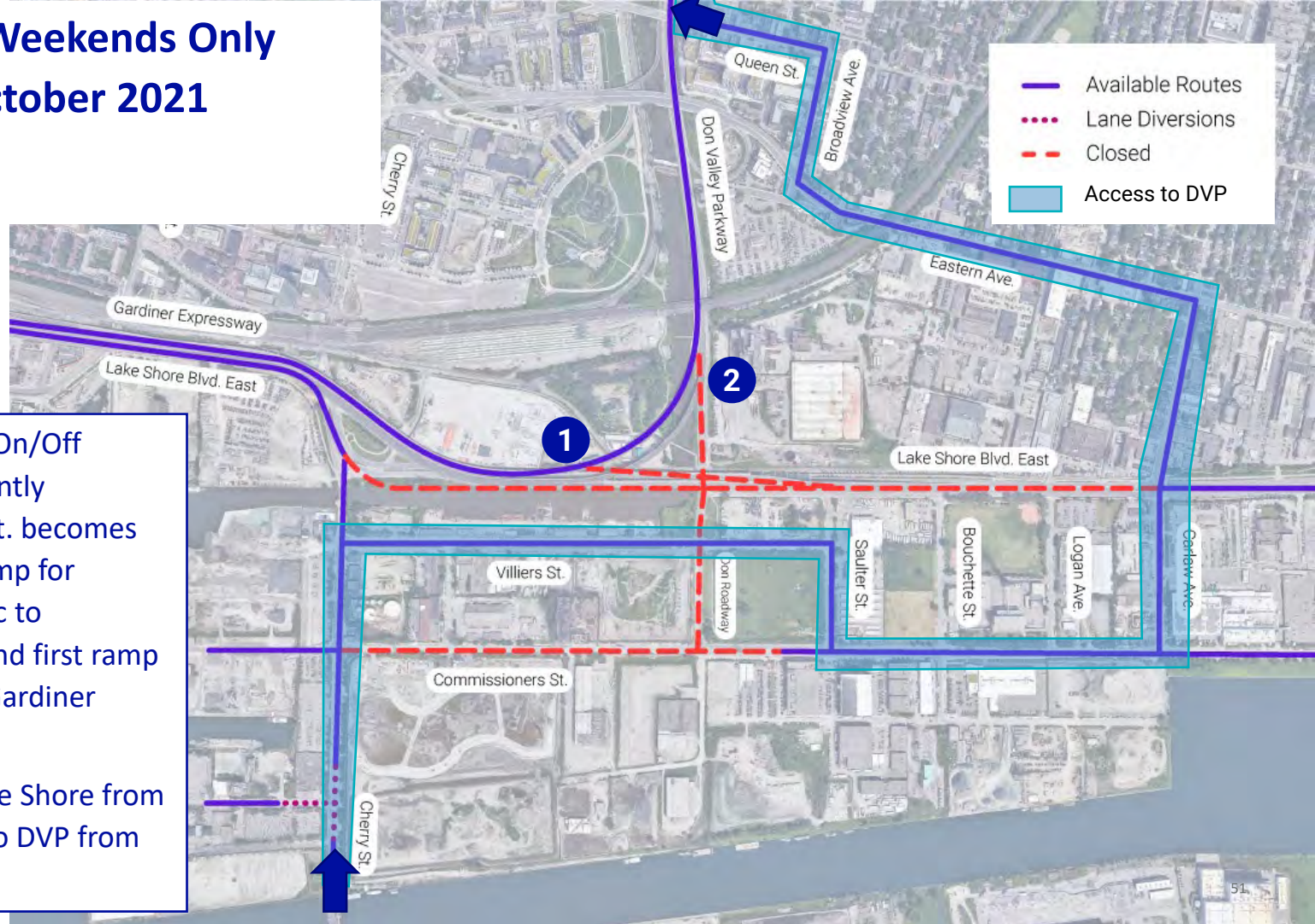
WEEKENDS ONLY

1

Gardiner Logan On/Off Ramps Permanently Closed. Jarvis St. becomes eastern most ramp for eastbound traffic to exit Gardiner. And first ramp for westbound Gardiner access.

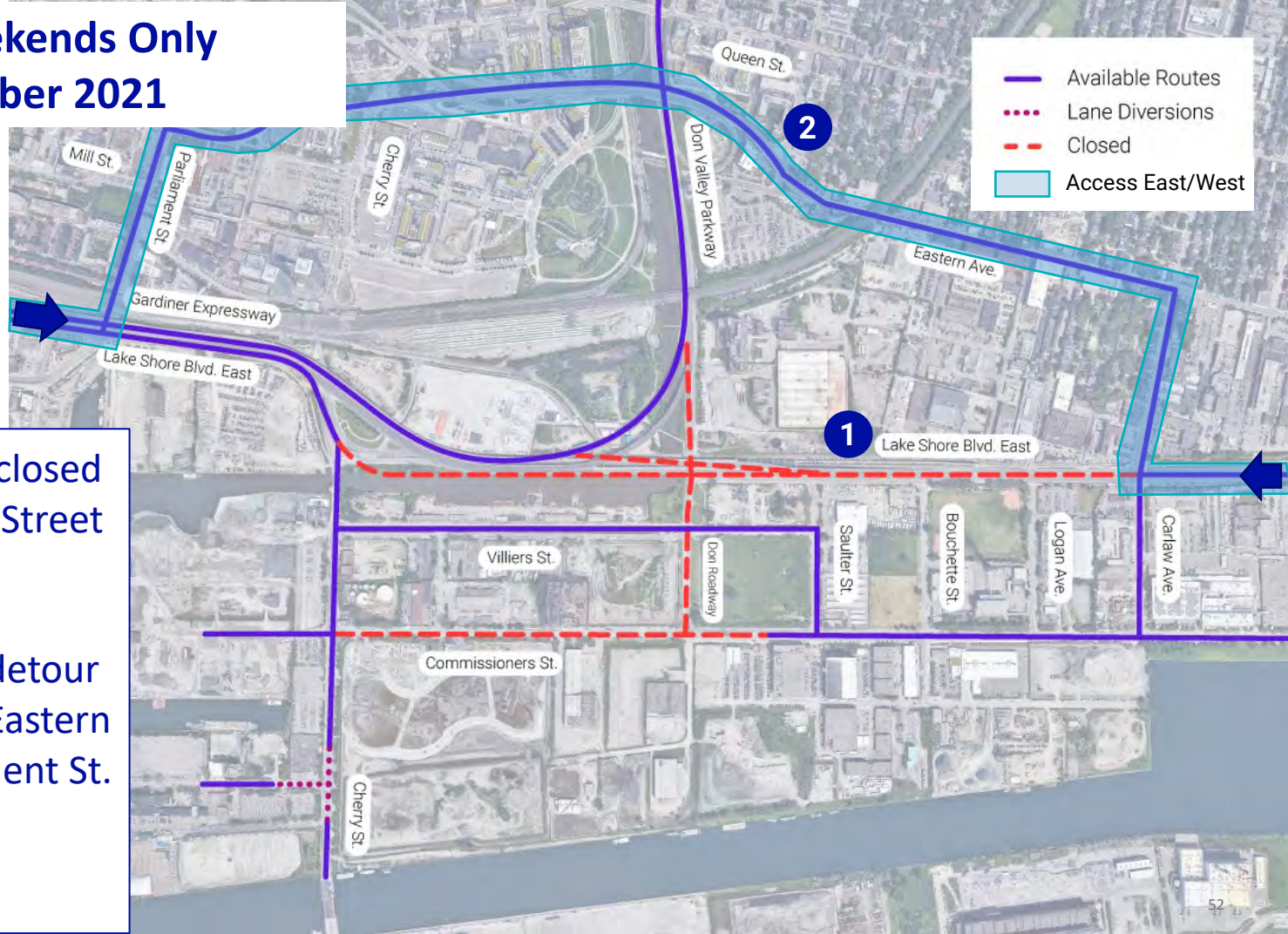
2

No access to Lake Shore from DVP, no access to DVP from Lake Shore



Road Detour: Weekends Only

September – October 2021

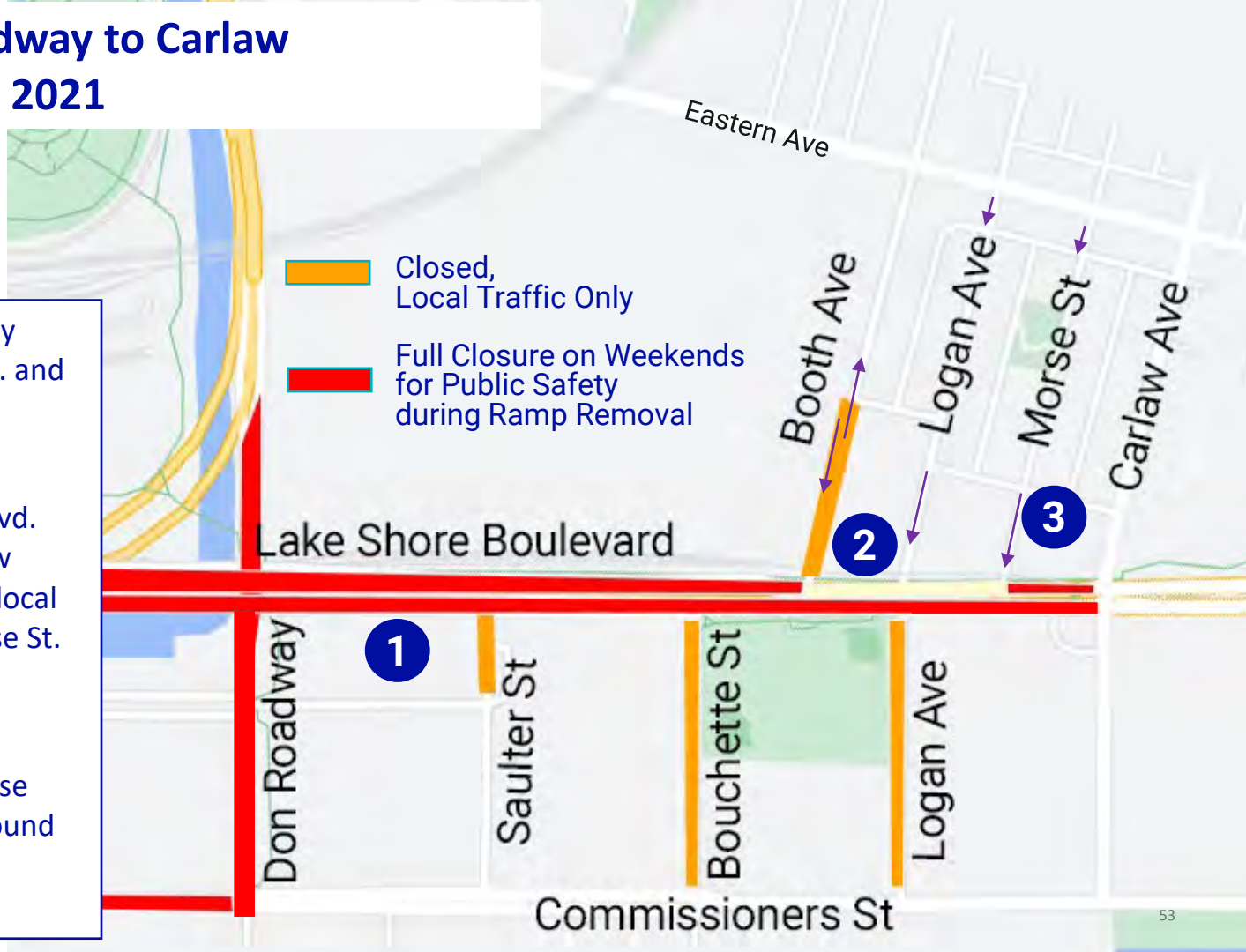


Zooming In: Don Roadway to Carlaw

September – October 2021

WEEKENDS ONLY

- 1** Eastbound Lake Shore fully closed between Cherry St. and Carlaw Ave.
- 2** Westbound Lake Shore Blvd. fully closed west of Carlaw Ave. Single lane open for local traffic only between Morse St. and Booth Ave.
- 3** One way direction of Morse St. reversed from northbound to southbound



Noise During Ramp Removal

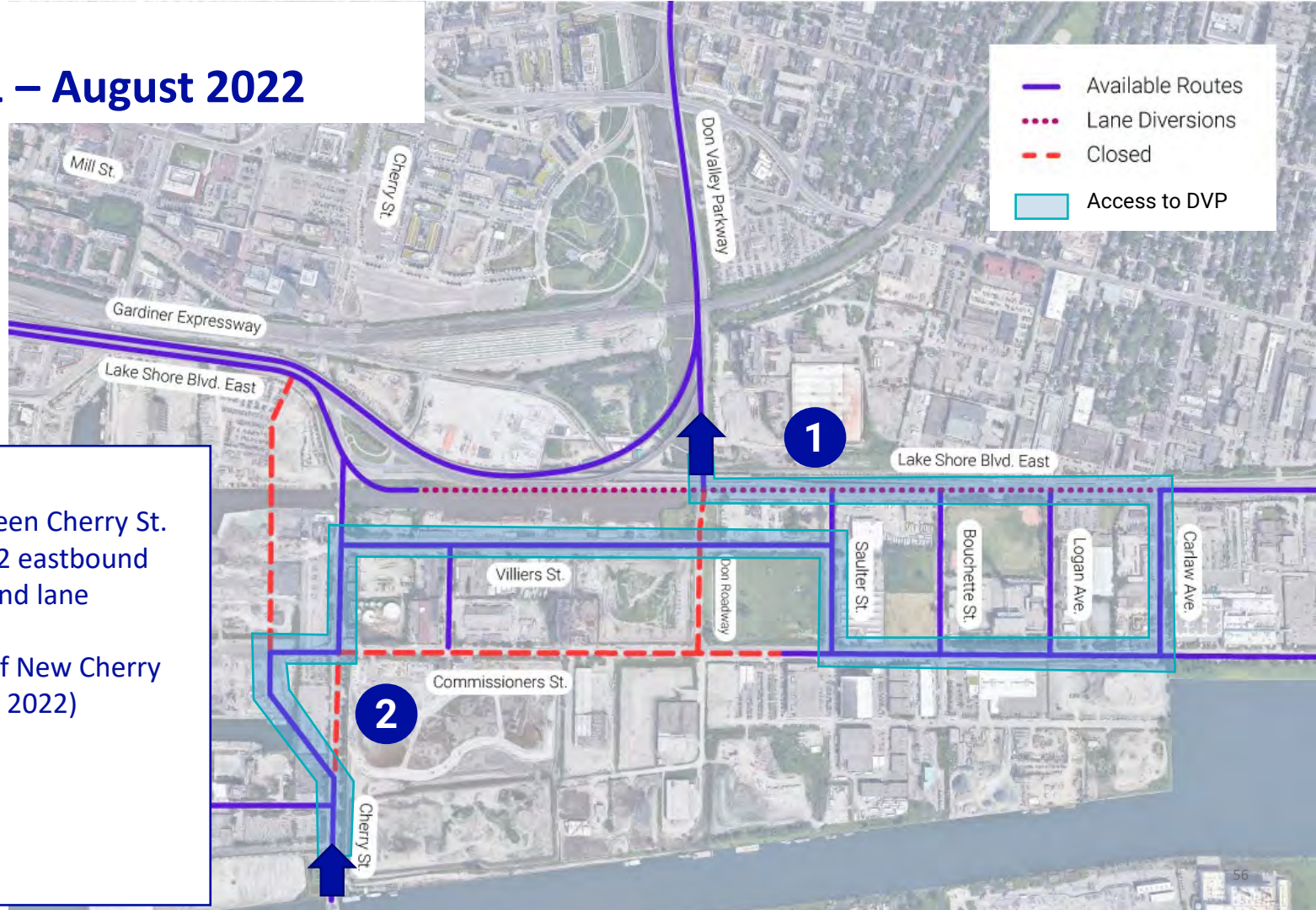
WEEKENDS ONLY



Road Closures, Detours

October 2021-August 2022

Roads Status October 2021 – August 2022



1

Lake Shore between Cherry St.
and Carlaw Ave: 2 eastbound
lanes, 1 westbound lane

2

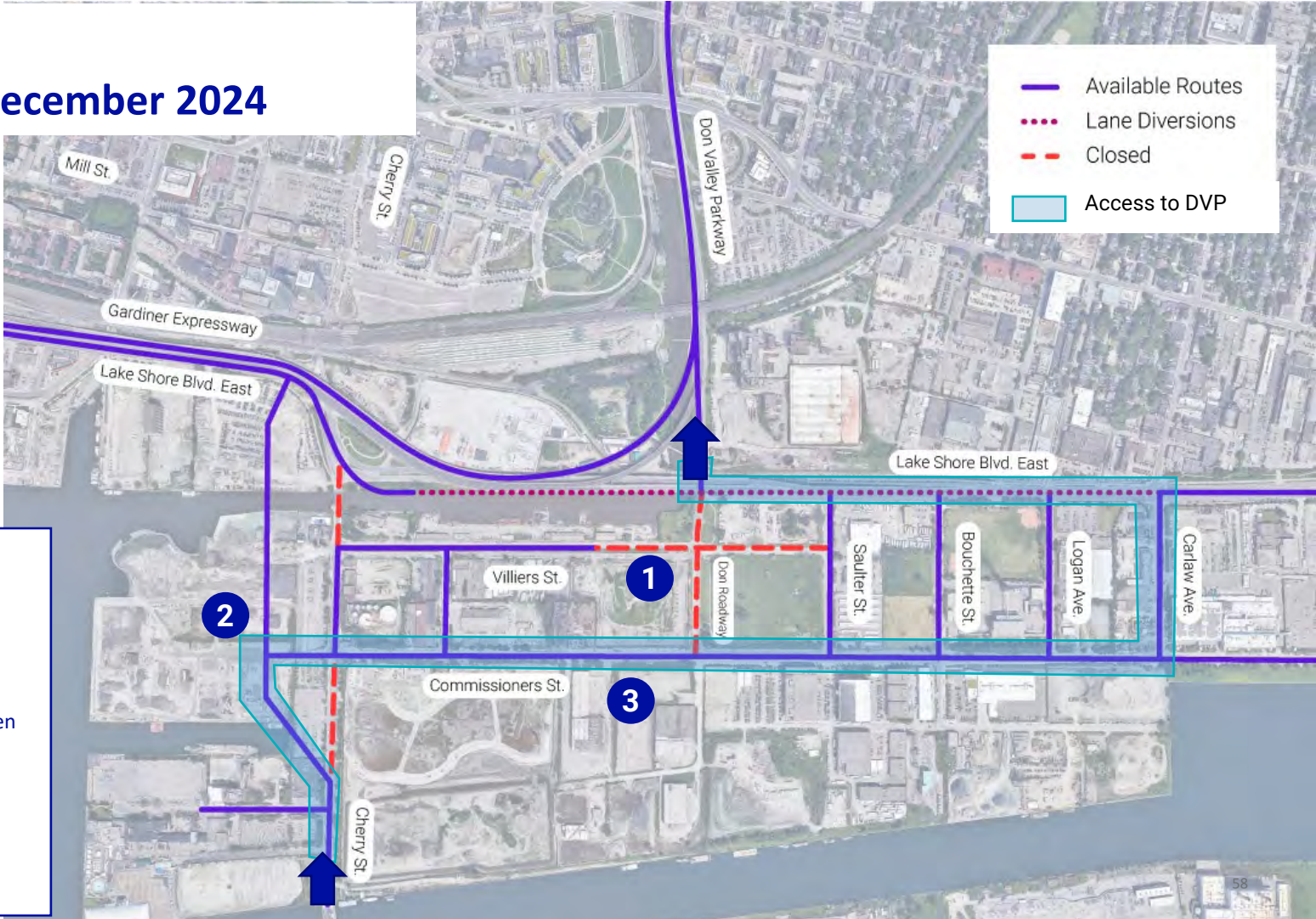
Partial opening of New Cherry
Street (as of May 2022)

Road Closures, Detours

August 2022-September 2024

Road Status:

August 2022 – December 2024

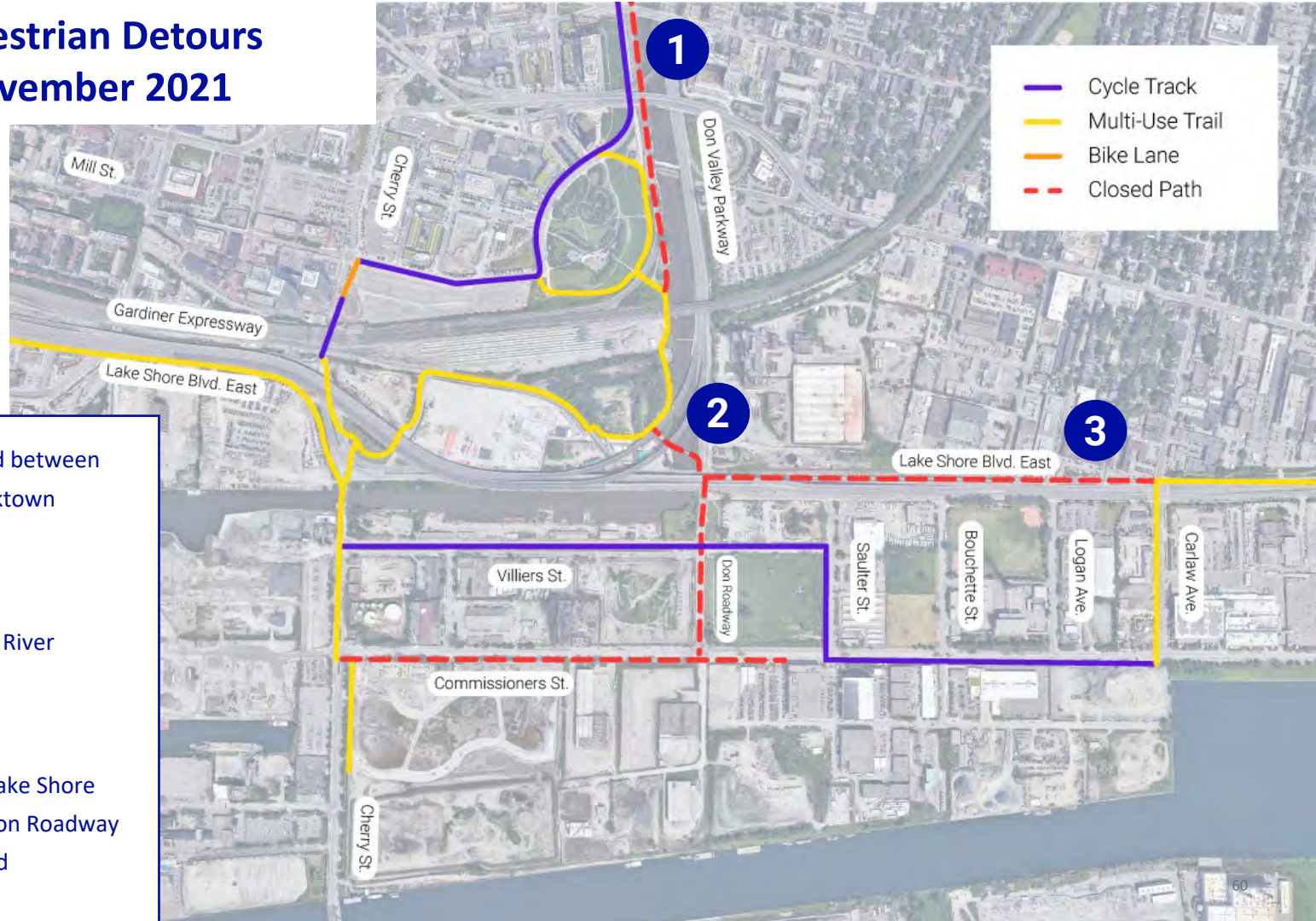


- 1 Villiers Street Closed
- 2 New Cherry Street Open
- 3 Commissioners Street Open

Closures and Detours: Cycling and Pedestrian Facilities

Cycling and Pedestrian Detours

September – November 2021

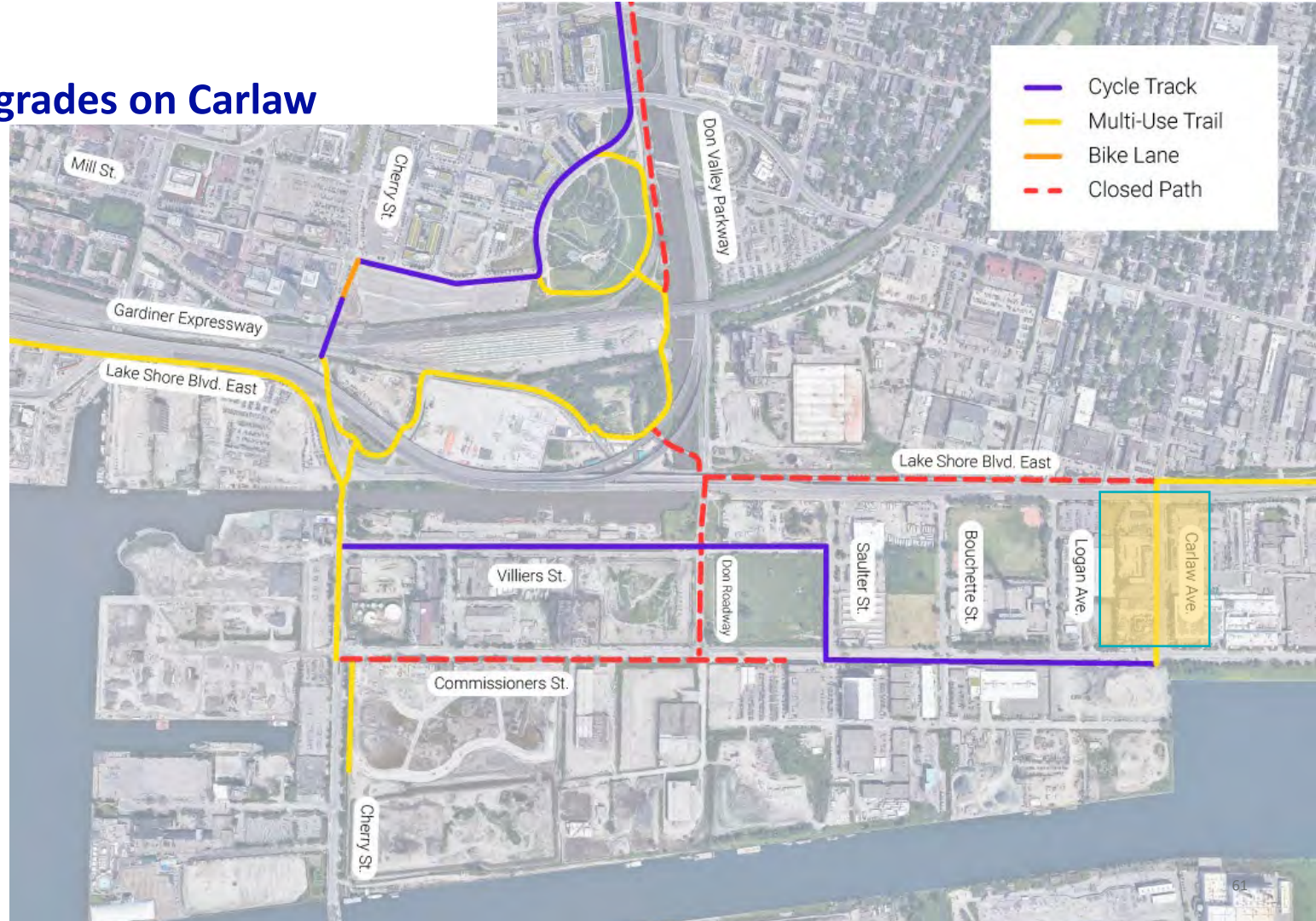


1 Lower Don Trail closed between Pottery Road and Corktown Common

2 Cycle bridge over Don River Removed

3 Multi-use trail along Lake Shore Boulevard between Don Roadway and Carlaw Ave. closed

Zoom In: Bike Facility Upgrades on Carlaw



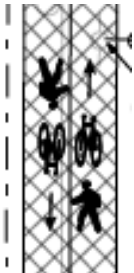
Bike Facility Upgrades: Carlaw Avenue

Existing Conditions

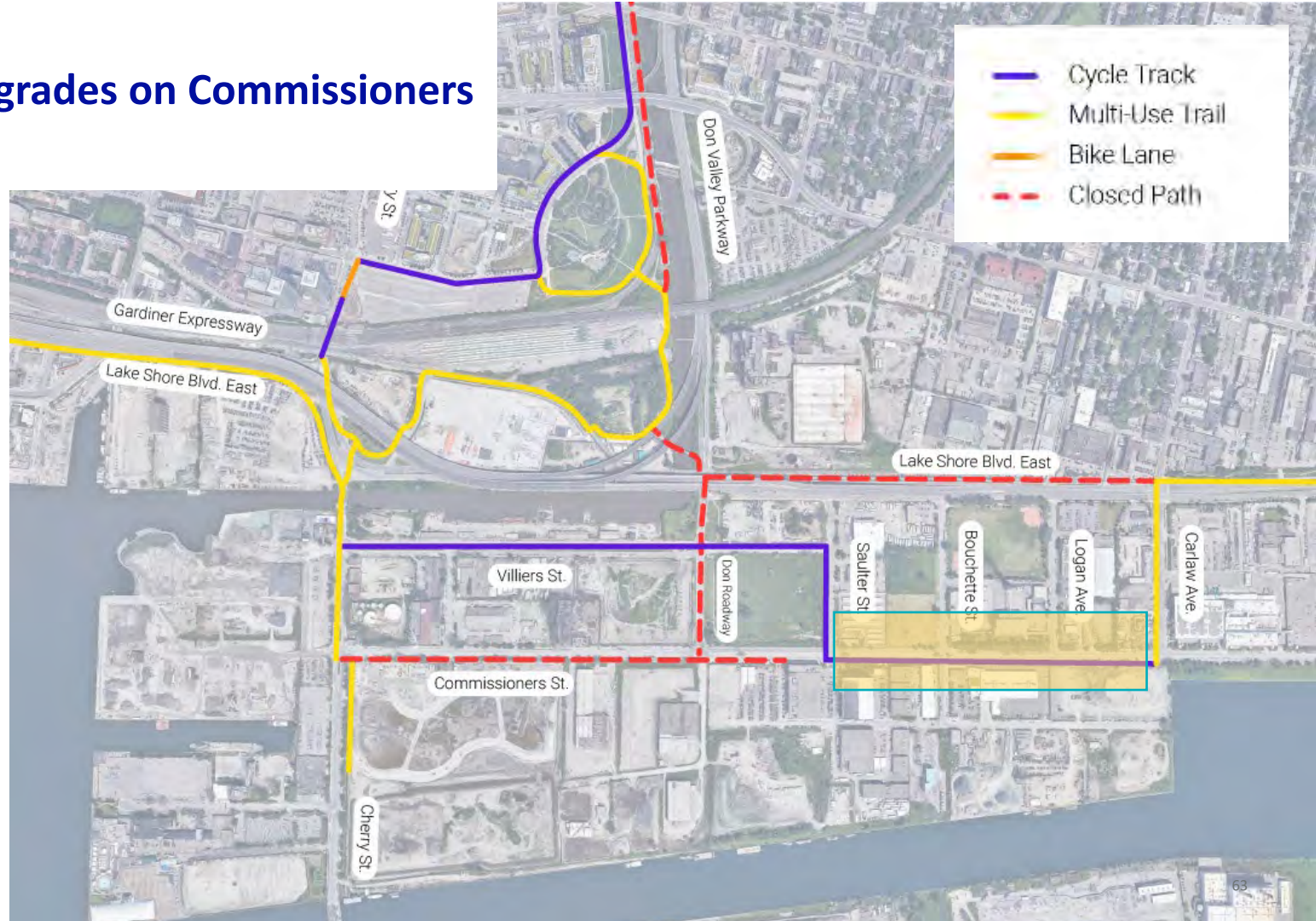
- 1.5 m wide sidewalk
- 3.5 m boulevard
- No separated cycle infrastructure

Proposed Upgrades

1. Construct 3.6 m, bidirectional multi-use trail
 2. Separated from road traffic with 1.4 m grassed boulevard
- Shared pathway markings along trail and signage at intersections and driveways



Zoom In: Bike Facility Upgrades on Commissioners Street



Bike Facility Upgrades: Commissioners Street

Existing Conditions

- Side-walk on south side, Don Roadway to Logan
- No separated cycle infrastructure

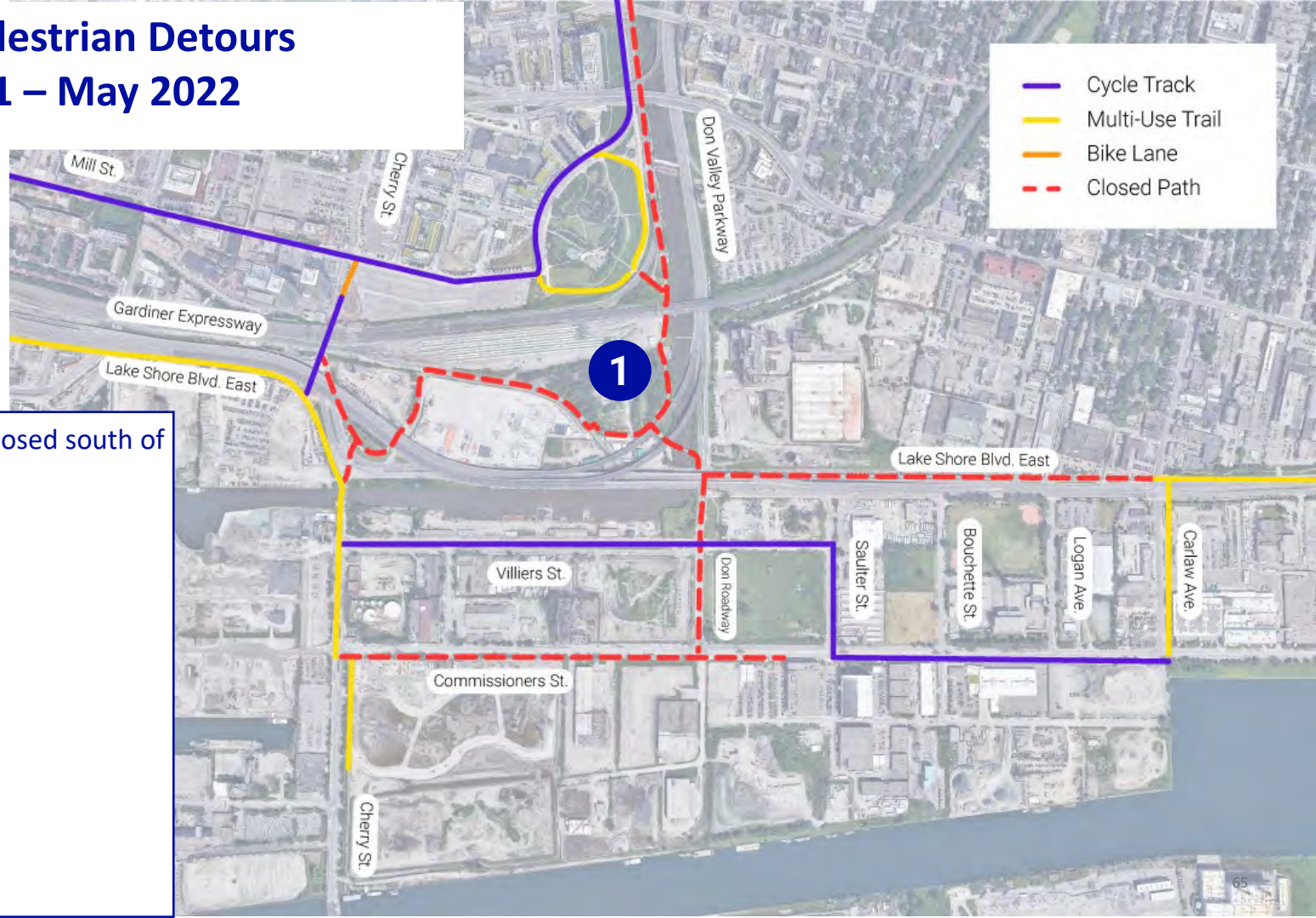
Upgrades

1. Extend sidewalk south side of Commissioners Logan to Carlaw
 2. Construct separated cycle lanes eastbound and westbound respectively
- Commissioners to be single vehicle lane in each direction
 - Saulter to Carlaw to be separated from parking and travel lanes with concrete barrier



Cycling and Pedestrian Detours

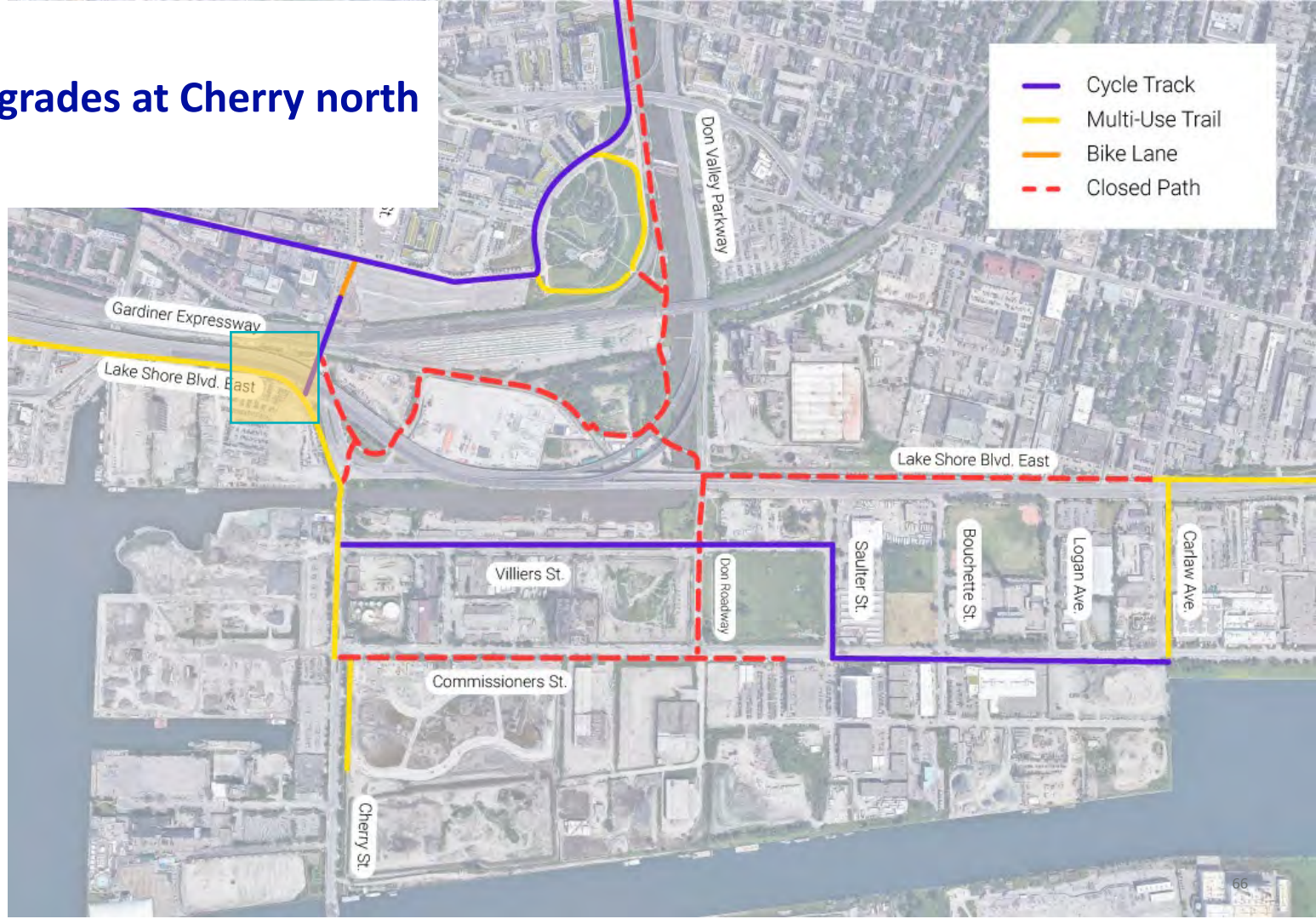
November 2021 – May 2022



1

Lower Don Trail Closed south of
Wilson Yard

Zoom In: Bike Facility Upgrades at Cherry north of Lake Shore



Bike Facility Upgrades: Cherry Street North of Lake Shore

Existing Conditions

- Sidewalk on east and west sides
- Single direction, separated delineated cycle lane on east and west sides
- Lateral constraints imposed by rail bridge

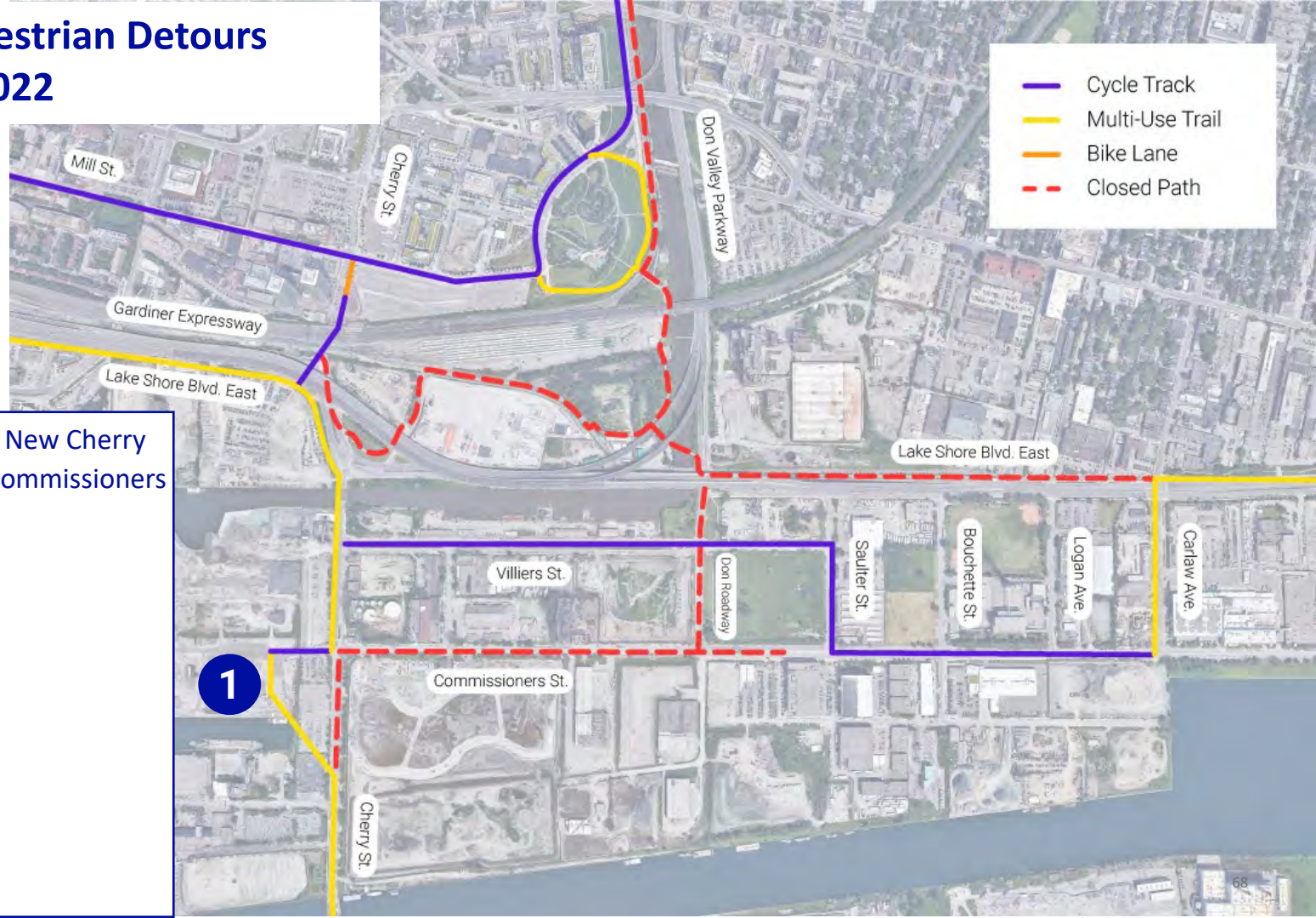
Proposed Upgrades

- **Full intersection reconstruction** at Lake Shore and New Cherry to accommodate cyclists
- Full intersection reconstruction at Mill and Cherry to facilitate cycling infrastructure upgrades on Mill Street (City of Toronto)
- Installation of visual separation barrier for cycle lanes in area below Cherry rail bridge



Cycling and Pedestrian Detours

May – August 2022



1

Partial opening of New Cherry Street, between Commissioners and Polson

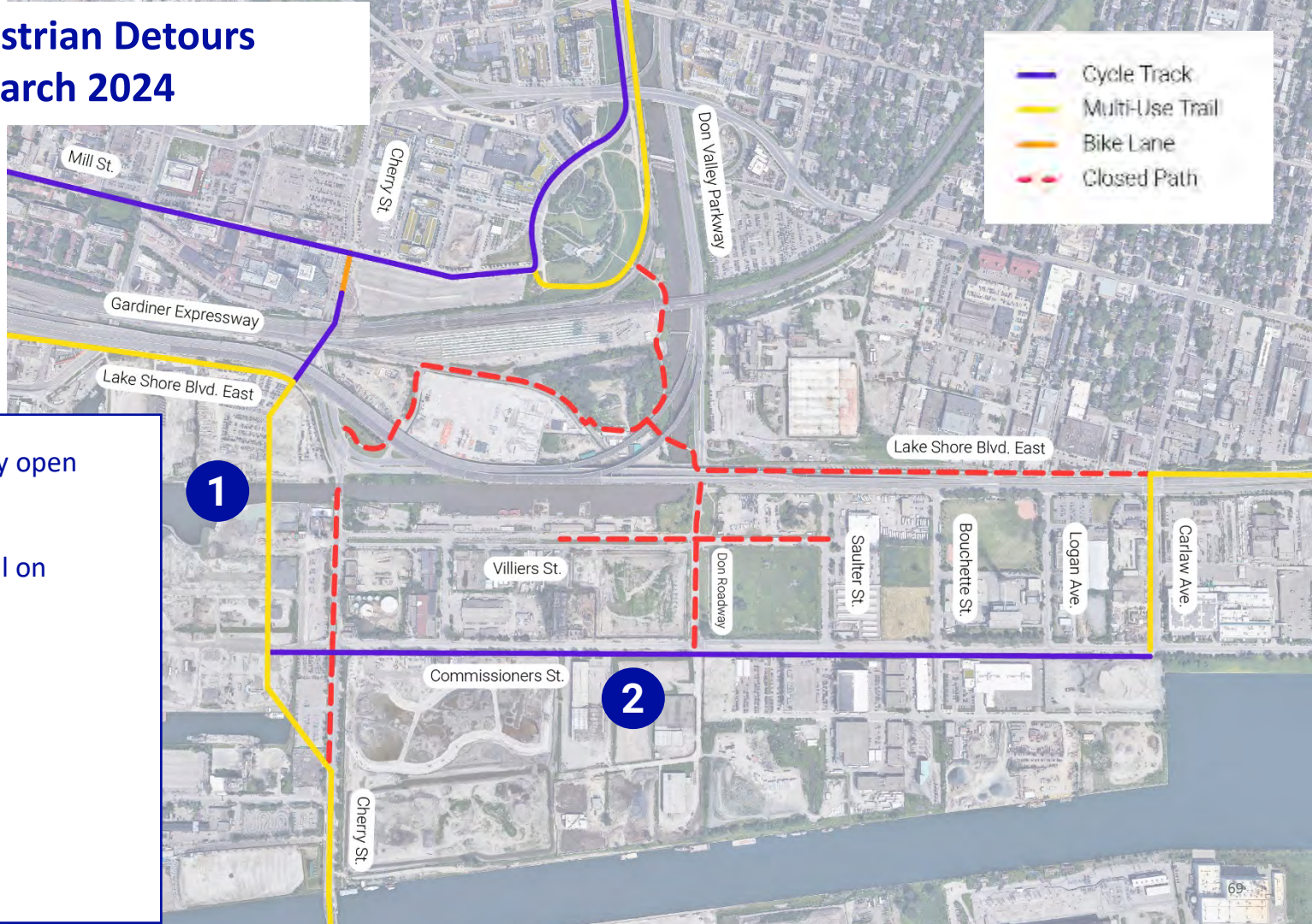
1

Cycling and Pedestrian Detours

August 2022 – March 2024



- 1 New Cherry St. fully open
- 2 New Multi-Use Trail on Commissioners St.



Consultation with Road and Trail Users

What We've Heard So Far: Road Users

Trucks and turning radii

Concerns about potential conflicts at intersections

- Design accommodates all trucks according to city-wide standard
- Team has evaluated and optimized bike detour routes that ensure continued safety and operations for cyclists and all other users

Accessing the Don Valley Parkway from Lake Shore Boulevard East

Requests for dedicated left and right turns (eastbound and westbound to DVP north)

- Dedicated turns would reduce the flow of through traffic to one lane and cause queues to back on to the Lake Shore Bridge, which is a safety issue
- Signal timing is being adjusted at 80+ intersections, including along Lake Shore, to keep traffic moving as best as possible

What We've Heard So Far: Road Users

More through lanes on Lake Shore Boulevard East

Requests to adjust our plans for partial closures on Lake Shore

- Based on extensive traffic modelling, the majority of traffic will be on Lake Shore eastbound, which is why two eastbound lanes (and one westbound) are staying open at all times

What We've Heard So Far: Cyclists

Safety

All routes should have physical separation

- Jersey barriers will be installed along Villiers and Commissioners streets to provide physical separation. Multi-use trails are separated by a curb and/or planted buffer.

Concerns raised regarding lighting, road surfaces

- Lighting was evaluated and deemed adequate along the detour
- Spot repairs are planned along the detour routes to address surfaces

Concerns raised regarding connections between bi-direction and uni-directional trails

- Intersections were designed to accommodate the high volume of cyclists in the area. Example: at Saulter and Villiers Streets, “all way stop control” on Saulter lets cyclists make a single-stage crossing to turn left from the cycling lane. Unidirectional bike lanes would create a two-stage crossing for cyclists at the intersection.

What We've Heard So Far: Cyclists

Safety (continued)

Questions regarding protection for cyclists at intersections

- Changes at the Cherry Street / Lake Shore intersections create a more direct safer route for cyclists
- Turning movement analyses have been conducted to ensure the geometry of intersections accommodate turning radii for larger, construction vehicles while mitigating against conflict with cyclists

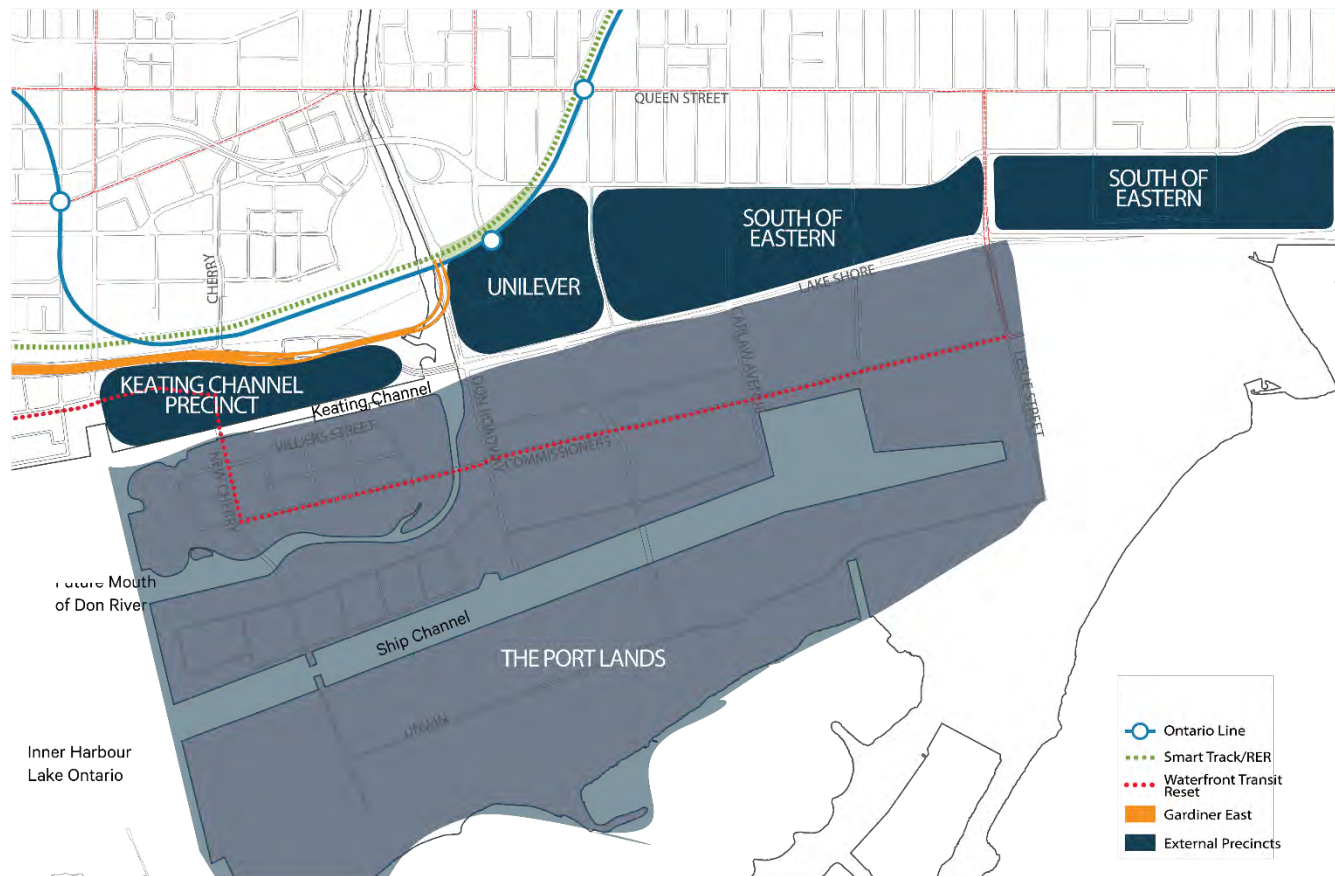
Selected Routes

Suggestions for alternate detour options

- Recommended route is the one deemed safest and most convenient
- We'll create a version of the trail detour map in Google Maps, which would allow cyclists to see which other cycling facilities or routes exist and plan their trips based on preference

Next Steps

The Big Picture: Beyond 2024



How to Contact Us During Construction

- Public Information Centre – September 2021
 - Check in on traffic and noise
 - Construction updates
- Regular updates at PortLandsTO.ca/Construction
- Questions or issues to raise?
 - Dedicated phone number: (416) 464-3583
 - Dedicated email: plfp@EllisDon.com
 - Online form to submit complaints or feedback: <https://bit.ly/PLFPform>

Upcoming Milestone for Port Lands Flood Protection: New Cherry Street



Upcoming Milestone for Port Lands Flood Protection: River Plantings



Upcoming Milestone for Port Lands Flood Protection: Bridges



Want to Learn More?

- Digging a New Don River: <https://www.youtube.com/watch?v=Rvc3AMmbLyw>
- Construction Progress: <https://portlandsto.ca/aerial-view-of-the-transforming-port-lands/>
- Found Objects: <https://portlandsto.ca/construction/pictures/found-objects/>
- Follow Rocky the Rock Ripper for construction updates from the perspective of an excavator: <https://twitter.com/TheRockRipper>

Q&A