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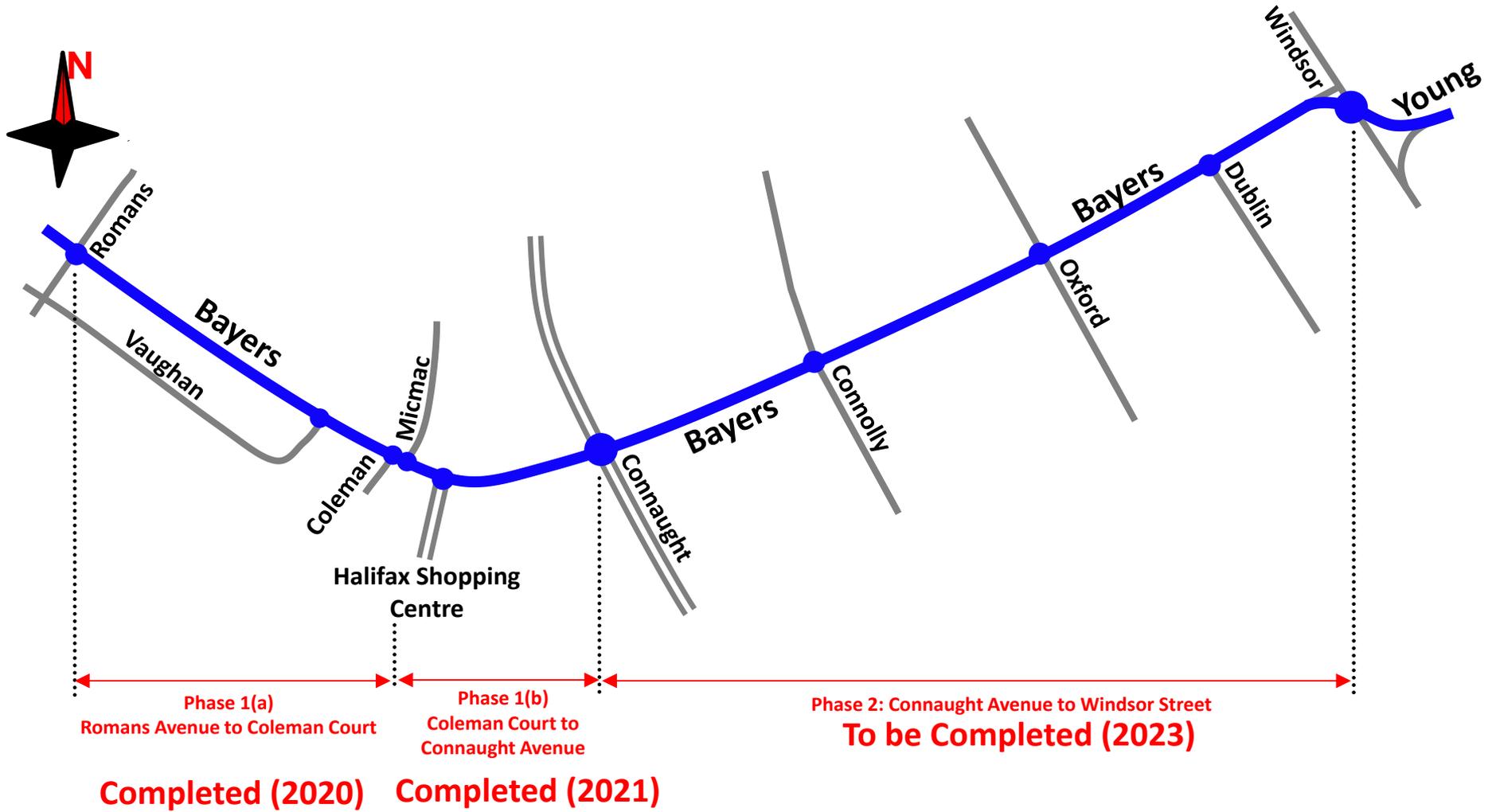
Bayers Road Interim Outbound Bus Lane

Transportation Standing Committee

March 24, 2022



Background



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Phase 2 (Interim)

- In 2021, Staff identified opportunities for an interim transit priority option for Bayers Road Phase 2
- August 2021: Regional Council approved a budget increase for the Bayers Road project that included the following items:

Bayers Road: Interim Transit Priority Measures	
Detailed Design	\$25,810.79
Construction Budget	\$100,000

Existing Conditions

Bayers Road (Looking to the East)



Proposed Interim Conditions

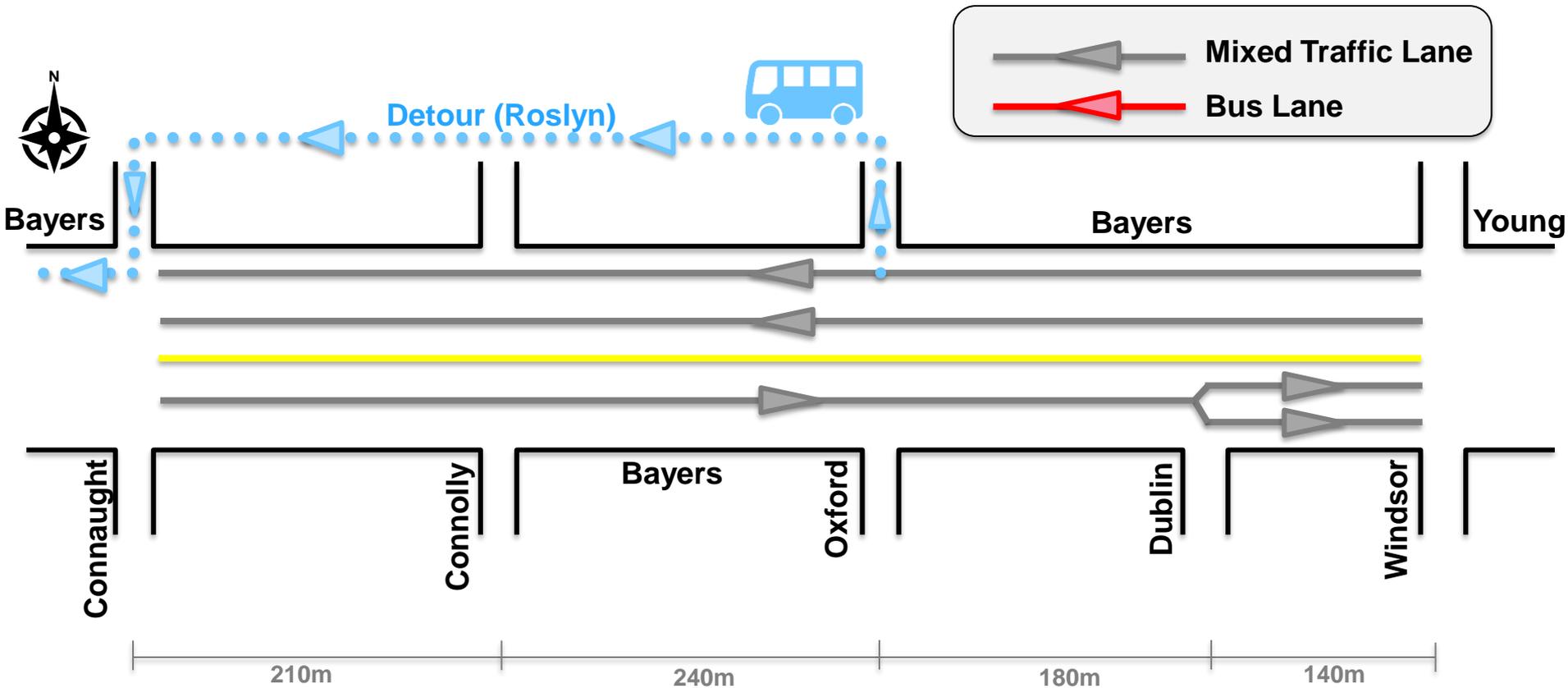
Bayers Road (Looking to the East)



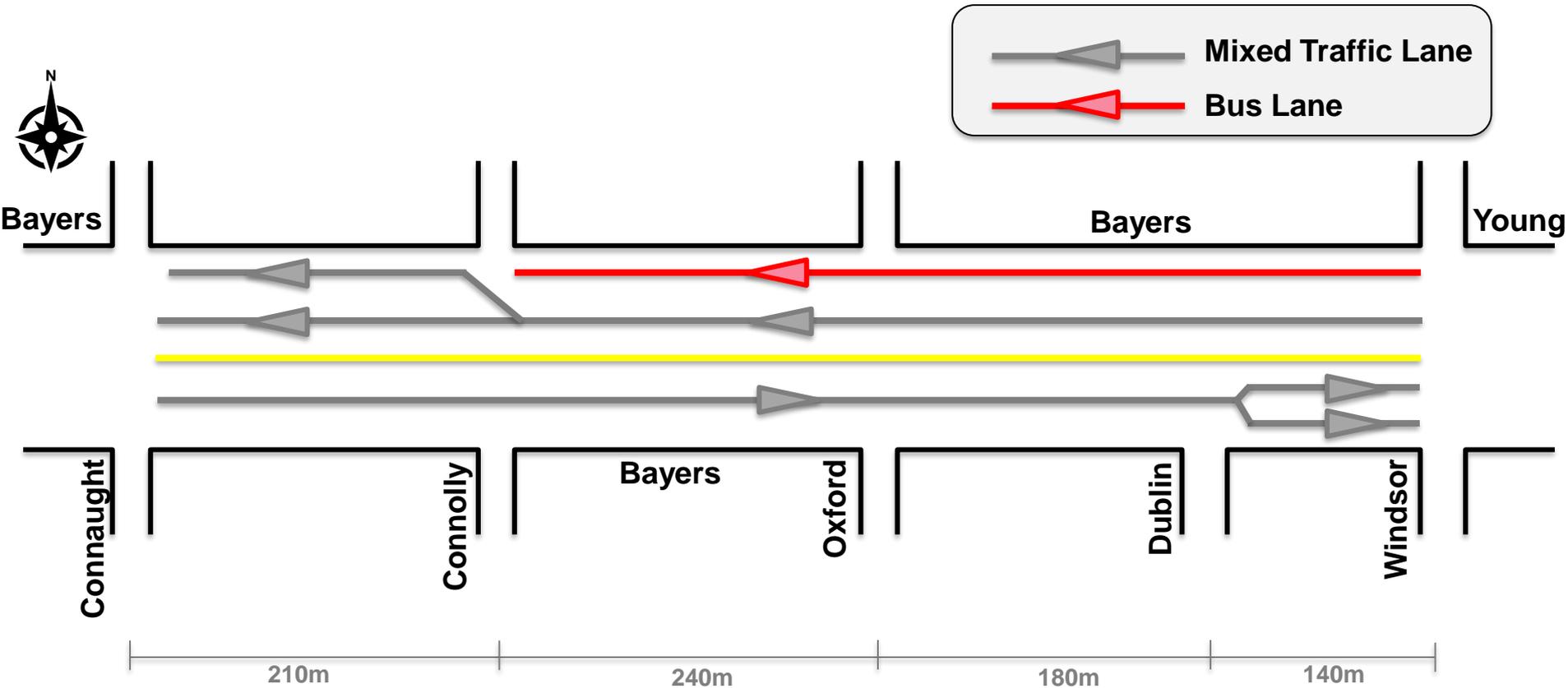
Bus Lane: Peak Periods (M-F, 3-6PM)
On-Street Parking / Loading: Off-Peak Periods

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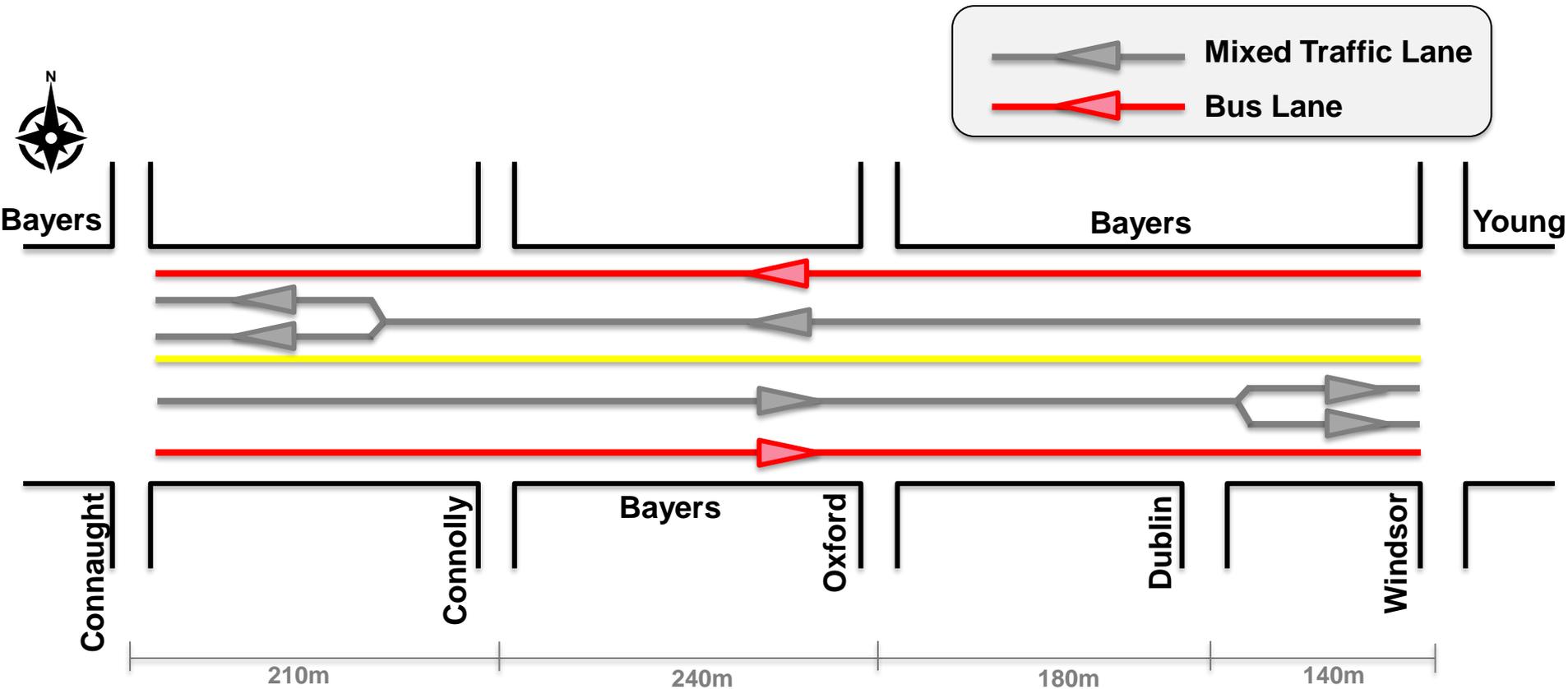
Existing Conditions



Phase 2 (Interim)



Phase 2: Full Buildout



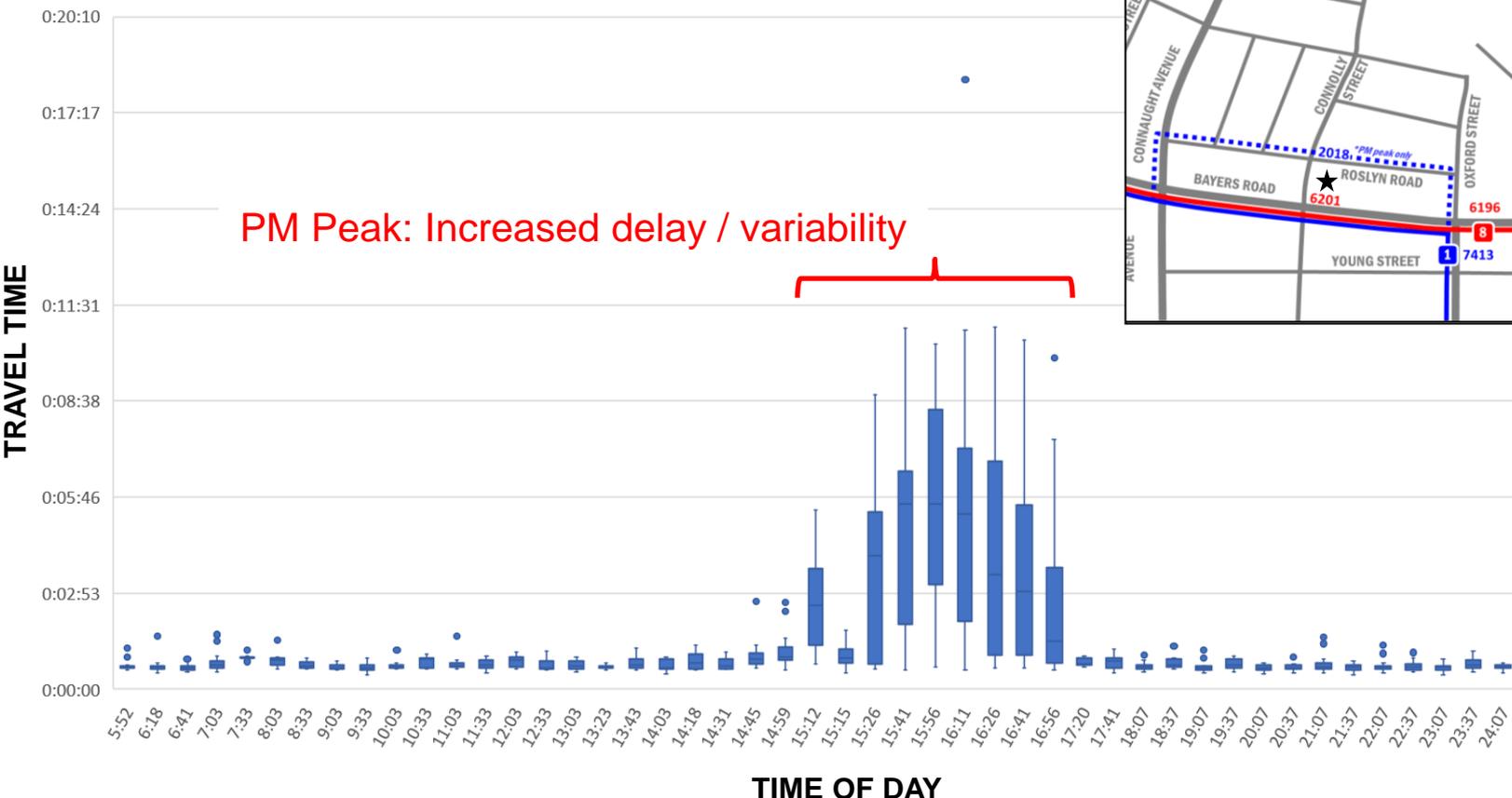
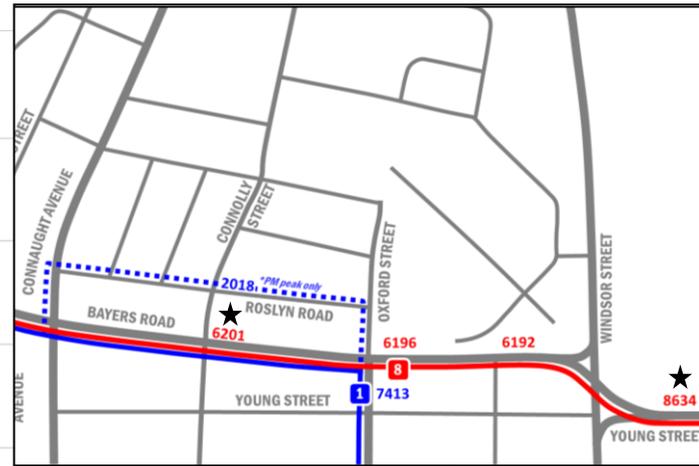
Transit Benefits



Transit Benefits

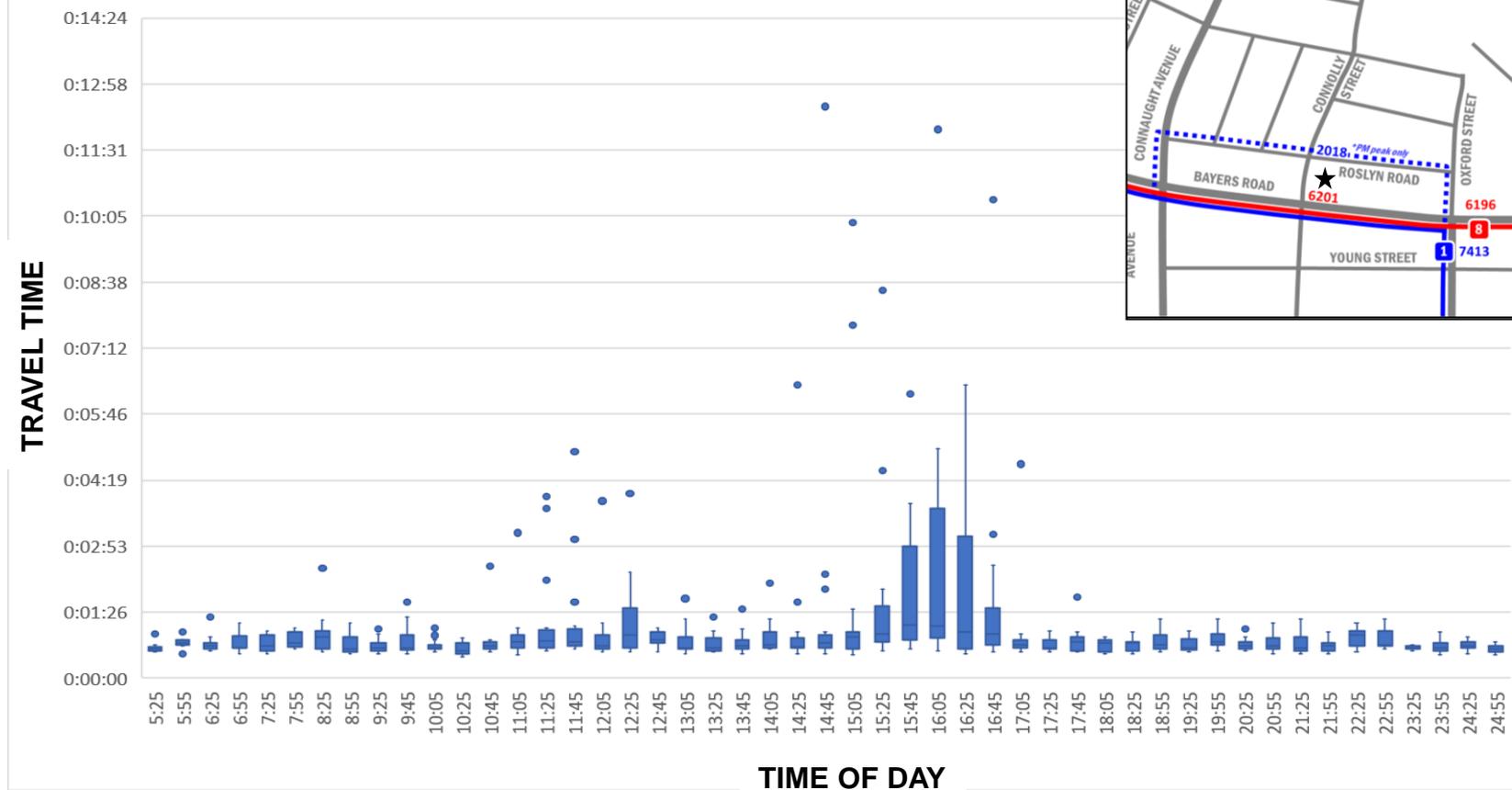
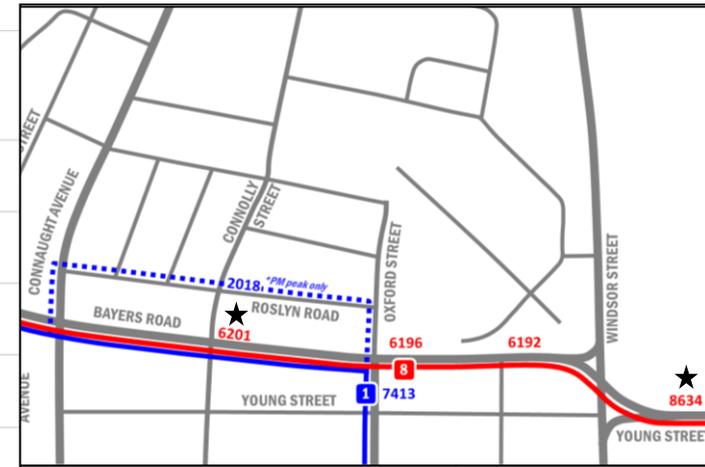
Route 80: Oct-Nov. 2019 (*Pre-COVID*)

PM Peak: Increased delay / variability



Transit Benefits

Route 8: Oct-Nov. 2019

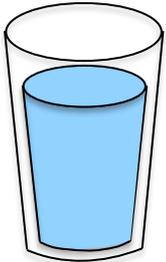


Traffic Impacts

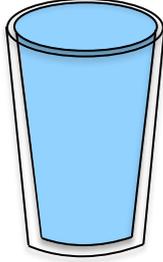
Traffic Impacts

$$\text{Volume-to-Capacity (V/C Ratio)} = \frac{\text{Traffic volume (\# Vehicles)}}{\text{Lane Capacity}}$$

$v/c = 0.75$



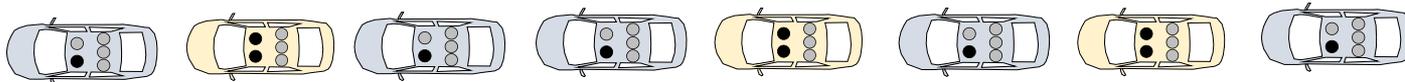
$v/c = 1.0$



$v/c > 1.0$



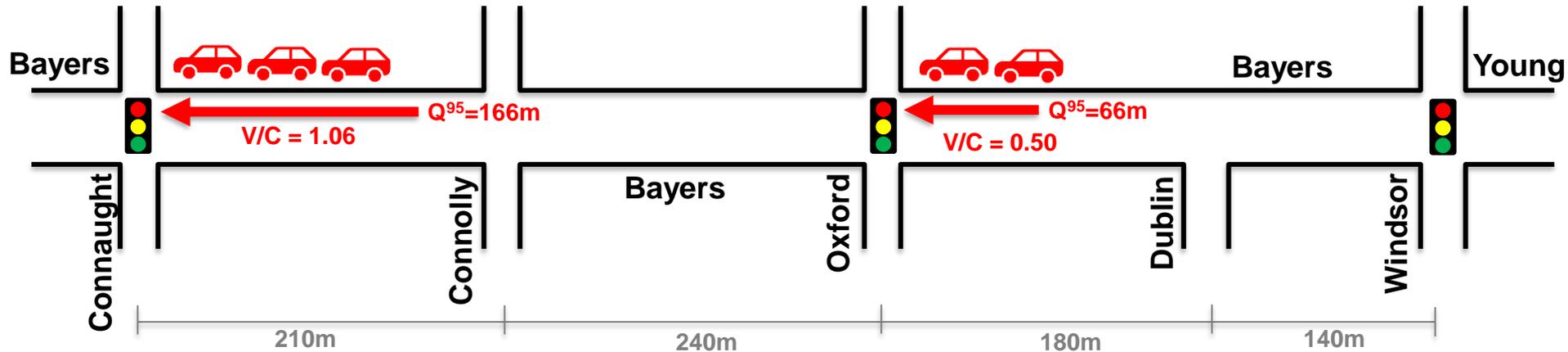
95th% Queue (Q^{95}) = Length of vehicle queue exceeded only 5% of the time



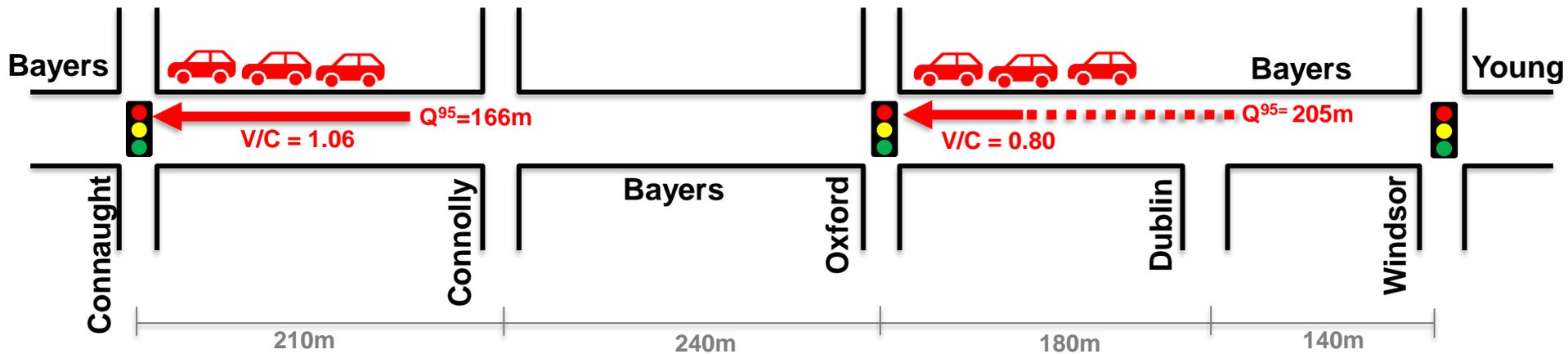
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Traffic Impacts (PM Peak)

Existing Conditions

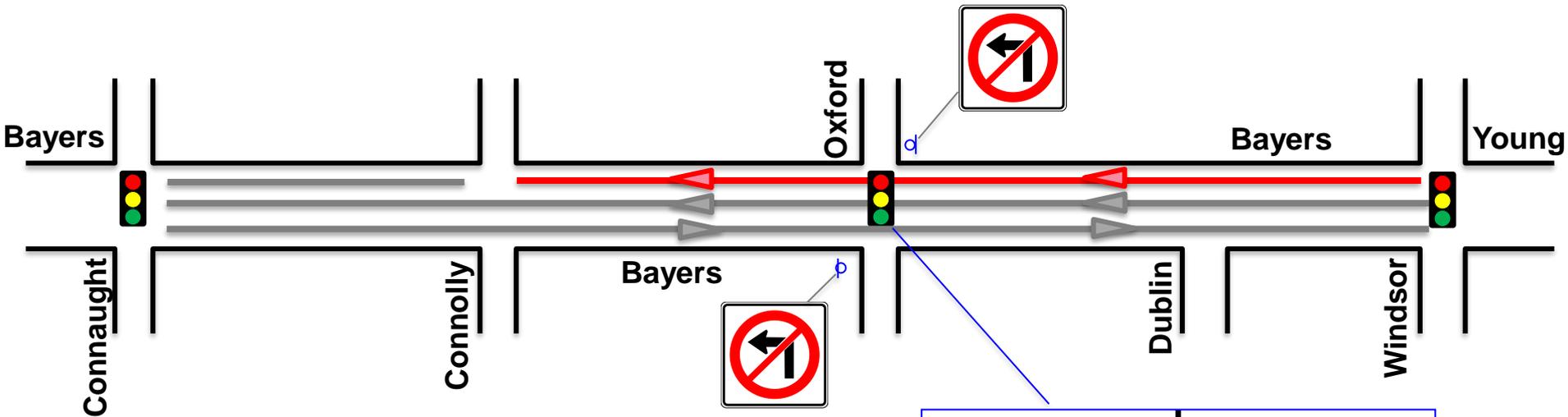


Interim Bus Lane

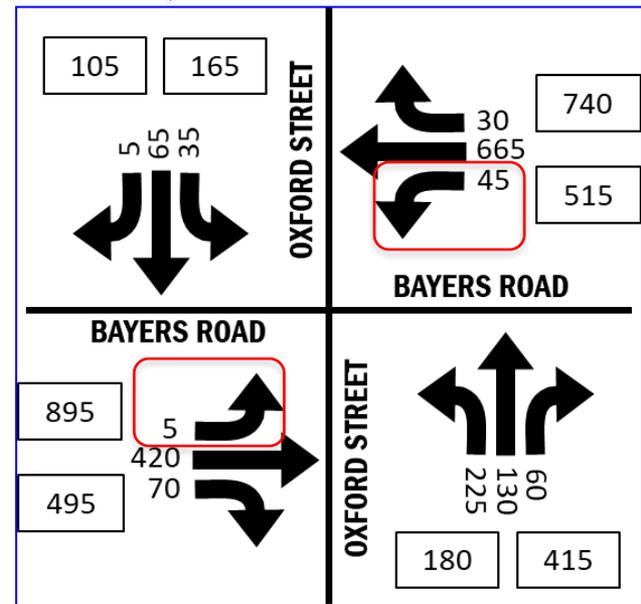


Bayers Road @ Oxford Street

Proposed Turn Restrictions (Weekdays 3-6PM)

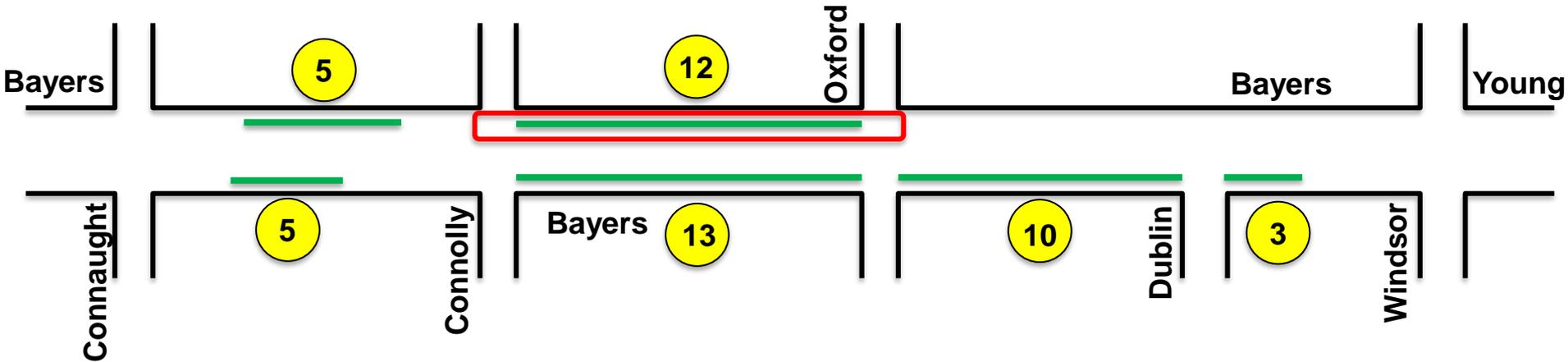


PM Peak Hour Volumes



Parking Impacts

Bayers Road @ Oxford Street



On-Street Parking Spaces	
Existing Conditions	48
Proposed Conditions	48*

***12 spaces between Connolly and Oxford change from "No Stopping (4-6PM)" to "No Stopping (3-6PM)"**

Overview

Benefits*:

- Reduced transit delay, increased transit reliability.
- Removes the need for buses to divert to Roslyn Road.
- High visibility transit priority that could help to encourage mode shift to transit.

Drawbacks*:

- Additional traffic congestion expected during PM peak period
- Left turn restrictions at Oxford Street (3-6PM)
- One-hour increase to “No Stopping” condition (impact 12 spaces)

***Consistent with benefits / drawbacks for the full buildout of the project**

Next Steps

- Tendering soon. Construction is targeted for May 2022, with the goal of completion prior to planned Halifax Transit service changes on May 30, 2022.
- Staff will be communicating these changes to area residents over the coming weeks.
- Following implementation, traffic data will be collected at key intersections to monitor the impacts of the changes.

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DISCUSSION

