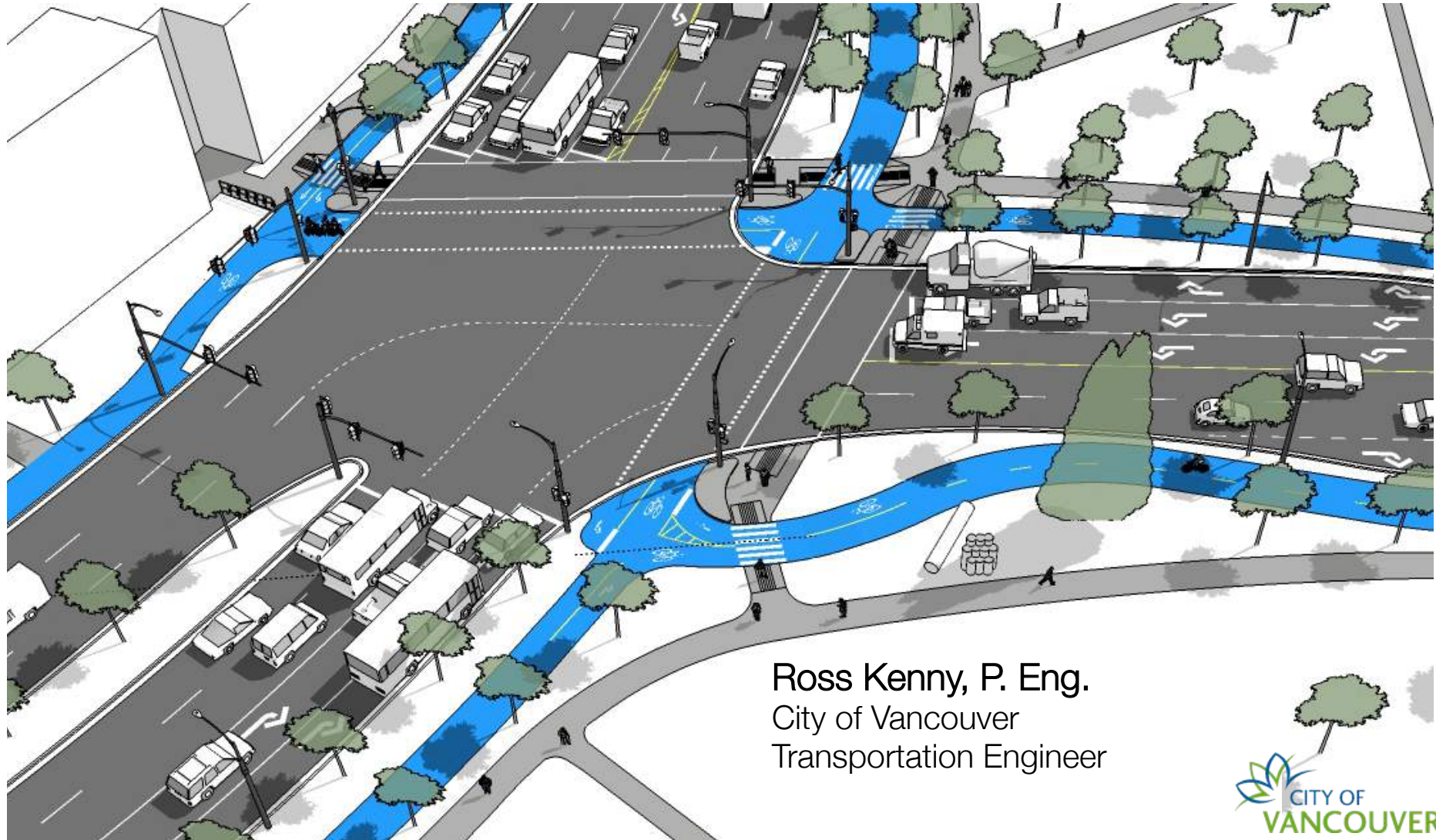


# Vancouver's Protected Intersections for All Ages & Abilities Cycling



Ross Kenny, P. Eng.  
City of Vancouver  
Transportation Engineer

A topographic map of North America, showing terrain elevation with green for lowlands and brown for highlands. The map includes the United States, Canada, and Mexico. A white circle is placed on the west coast of Canada, near the border with the United States, to indicate the location of Vancouver. The text "Vancouver" is written in white to the left of the circle.

Vancouver ○

*pro walk  
pro bike  
pro place*



*Meet us in Vancouver!  
September 12-15, 2016*



## Bridges and Other Crossings

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**1932: Opening Day**  
Burrard Bridge



KEEP  
LEFT RIGHT



CYCLISTS USE  
BELL OR VOICE  
WHEN PASSING

MAXIMUM  
60

**2008: Shared Sidewalks**

Burrard Bridge



**2009: Protected Bike Lanes**  
Burrard Bridge





**2009: Protected Bike Lanes**

Burrard Bridge

# **Burrard Bridge South End**

## **Burrard Street and Cornwall Avenue**

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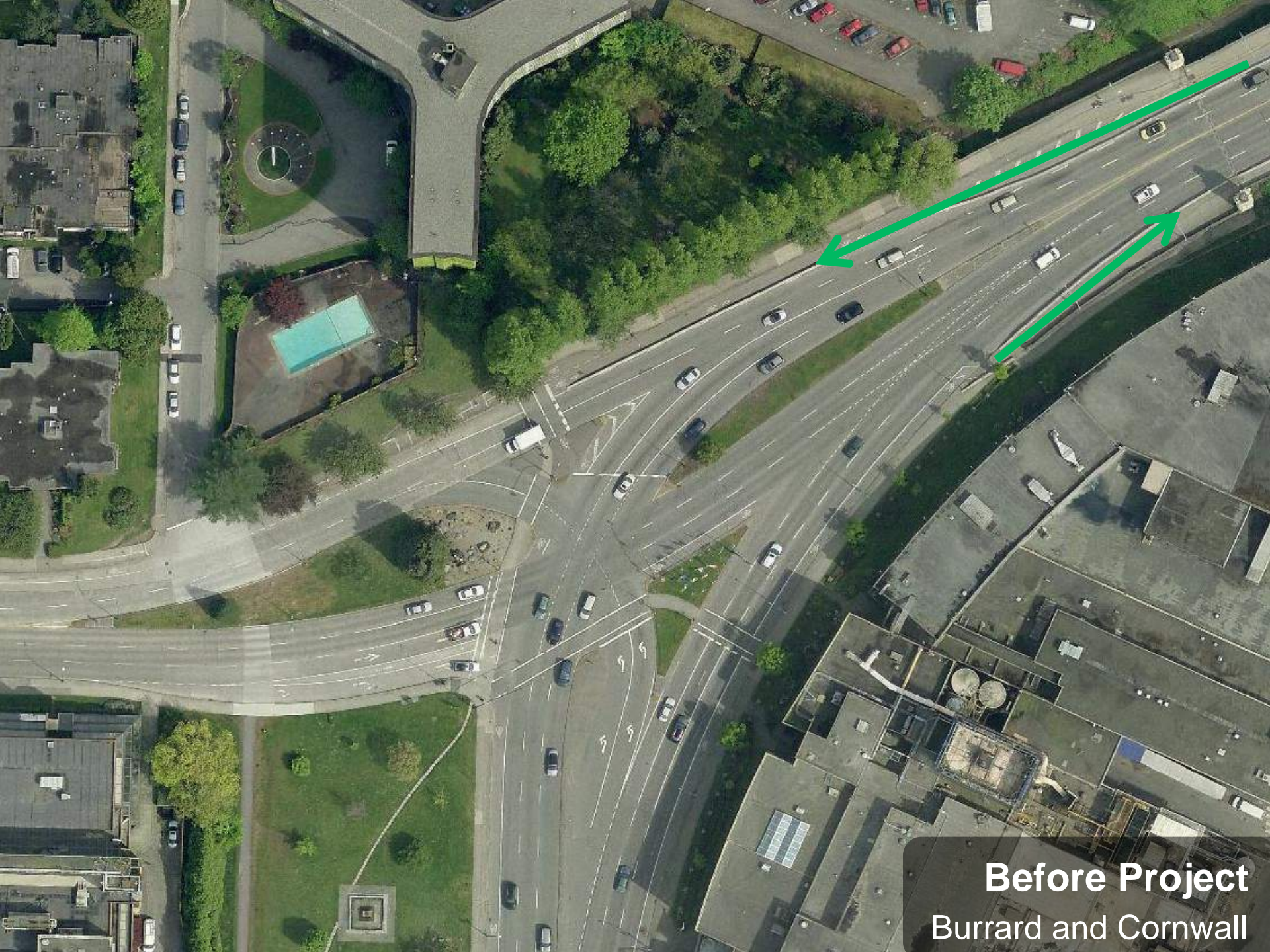
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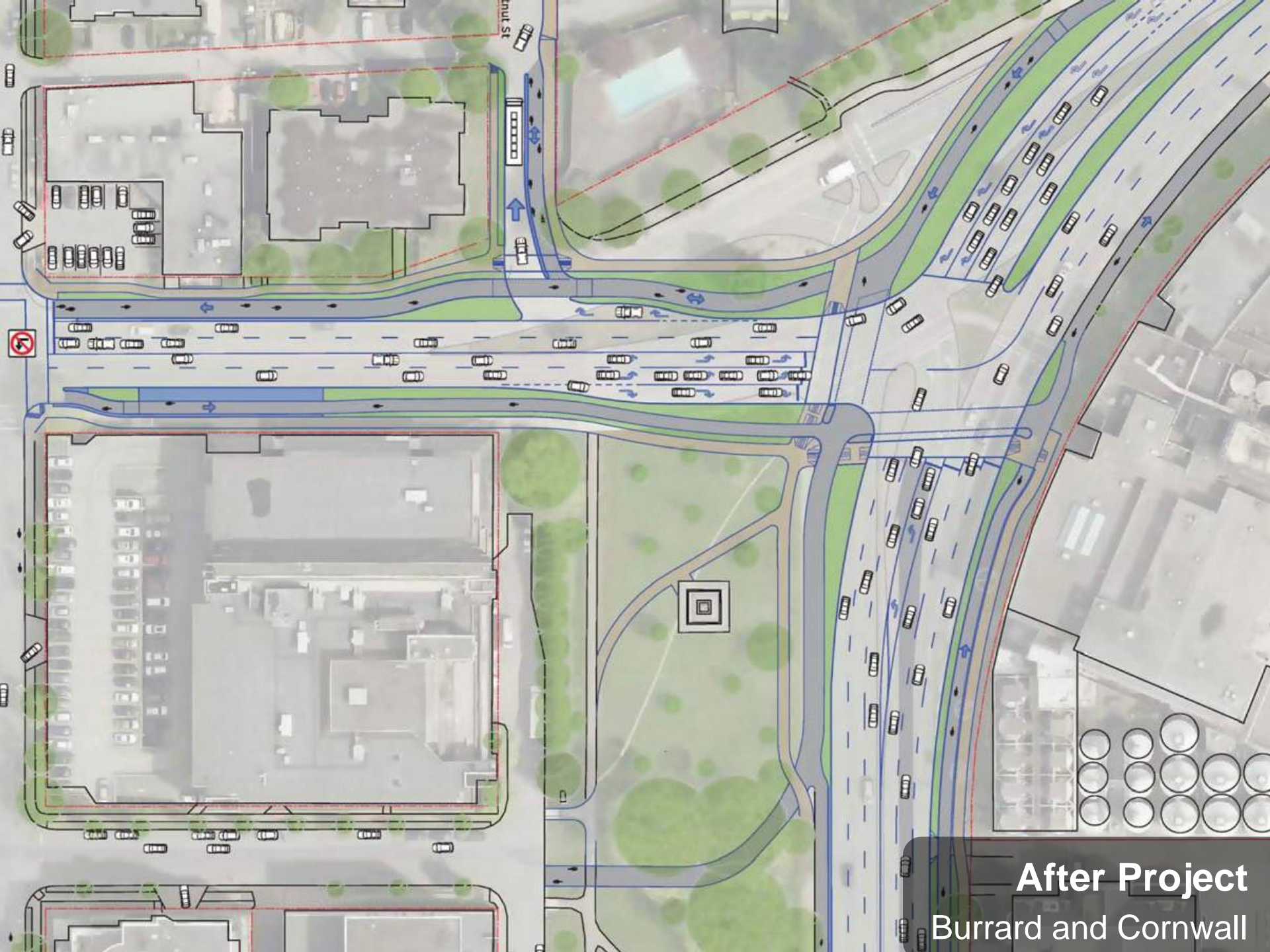
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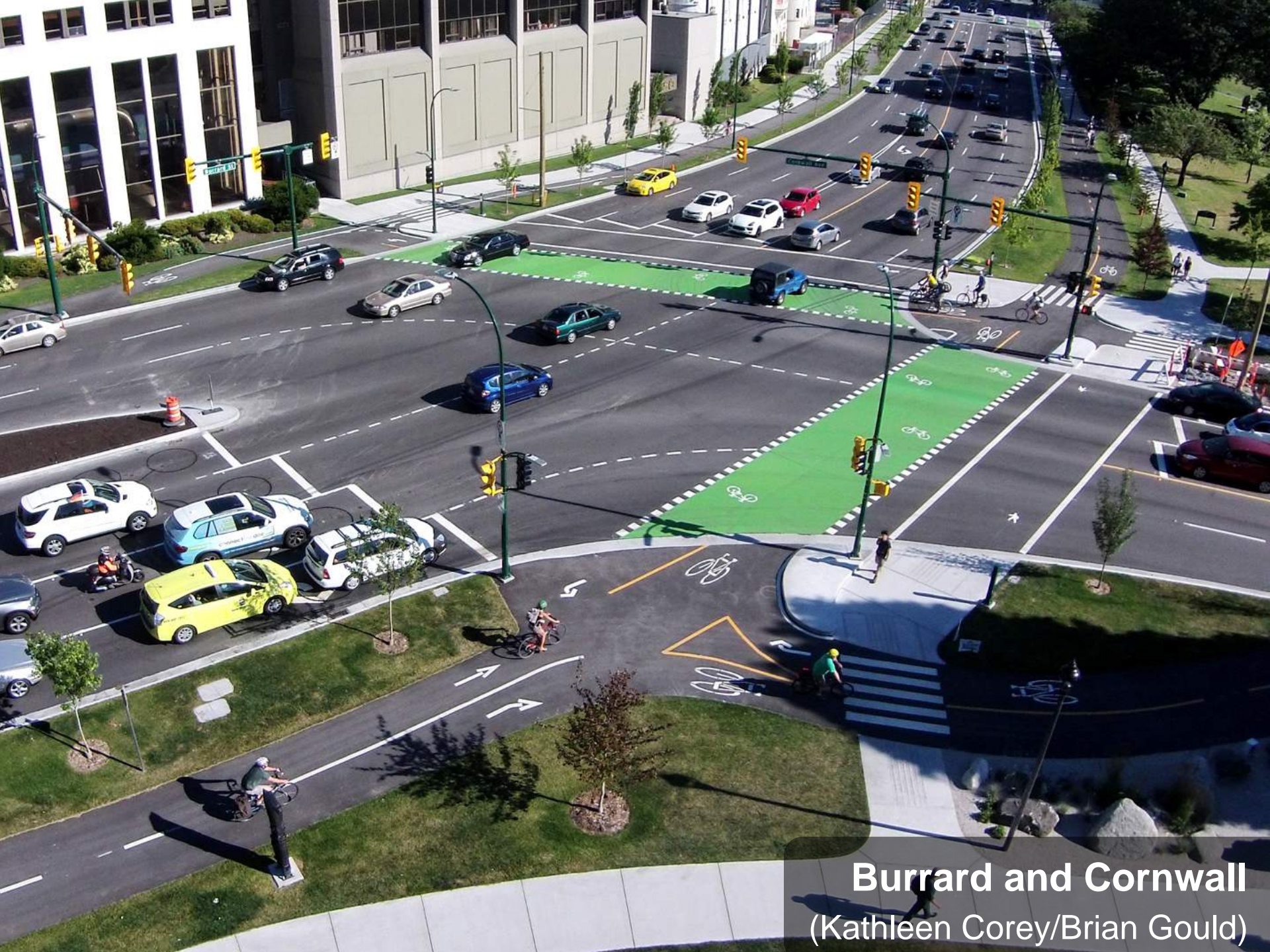




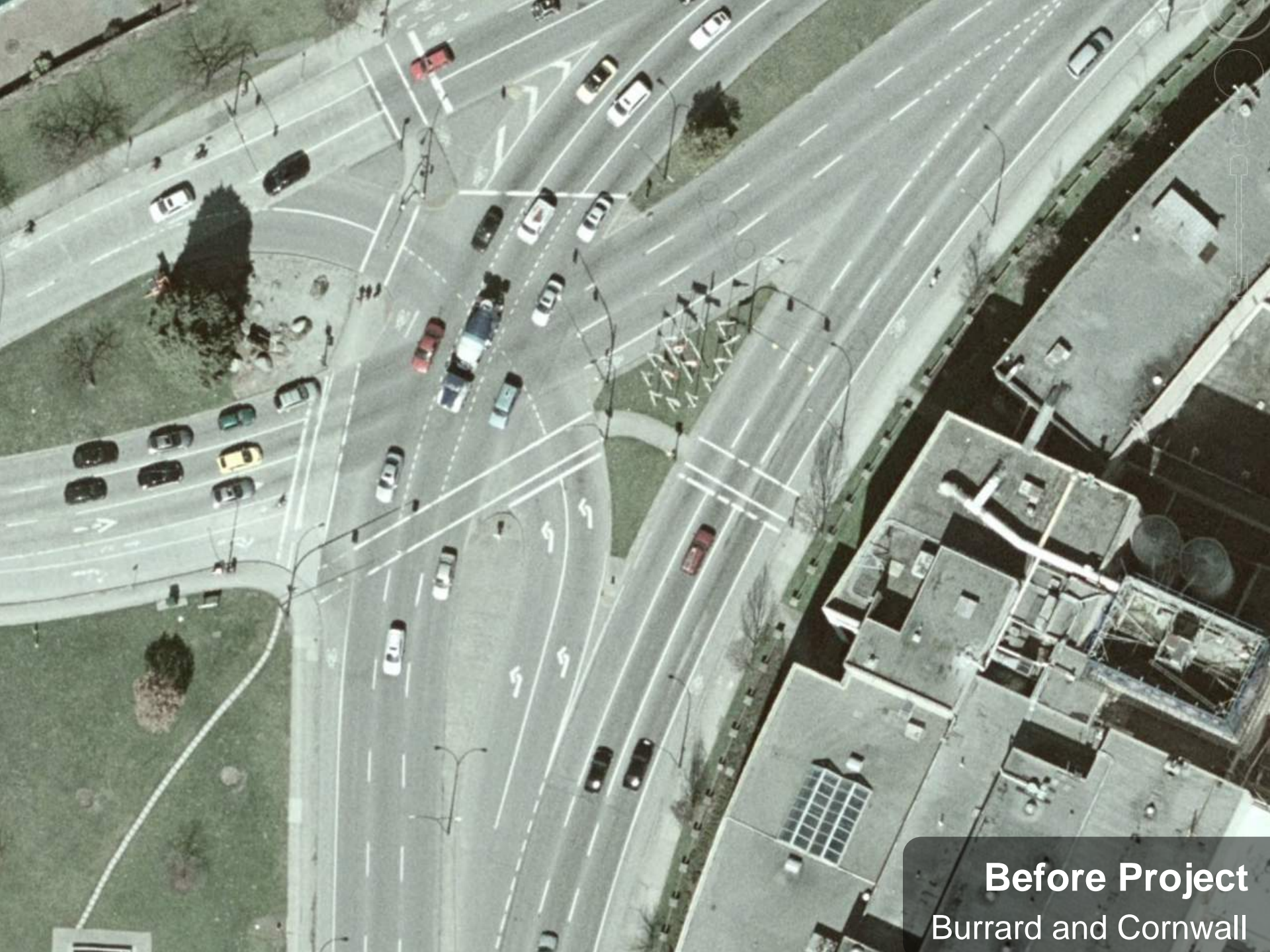
**Before Project**  
Burrard and Cornwall



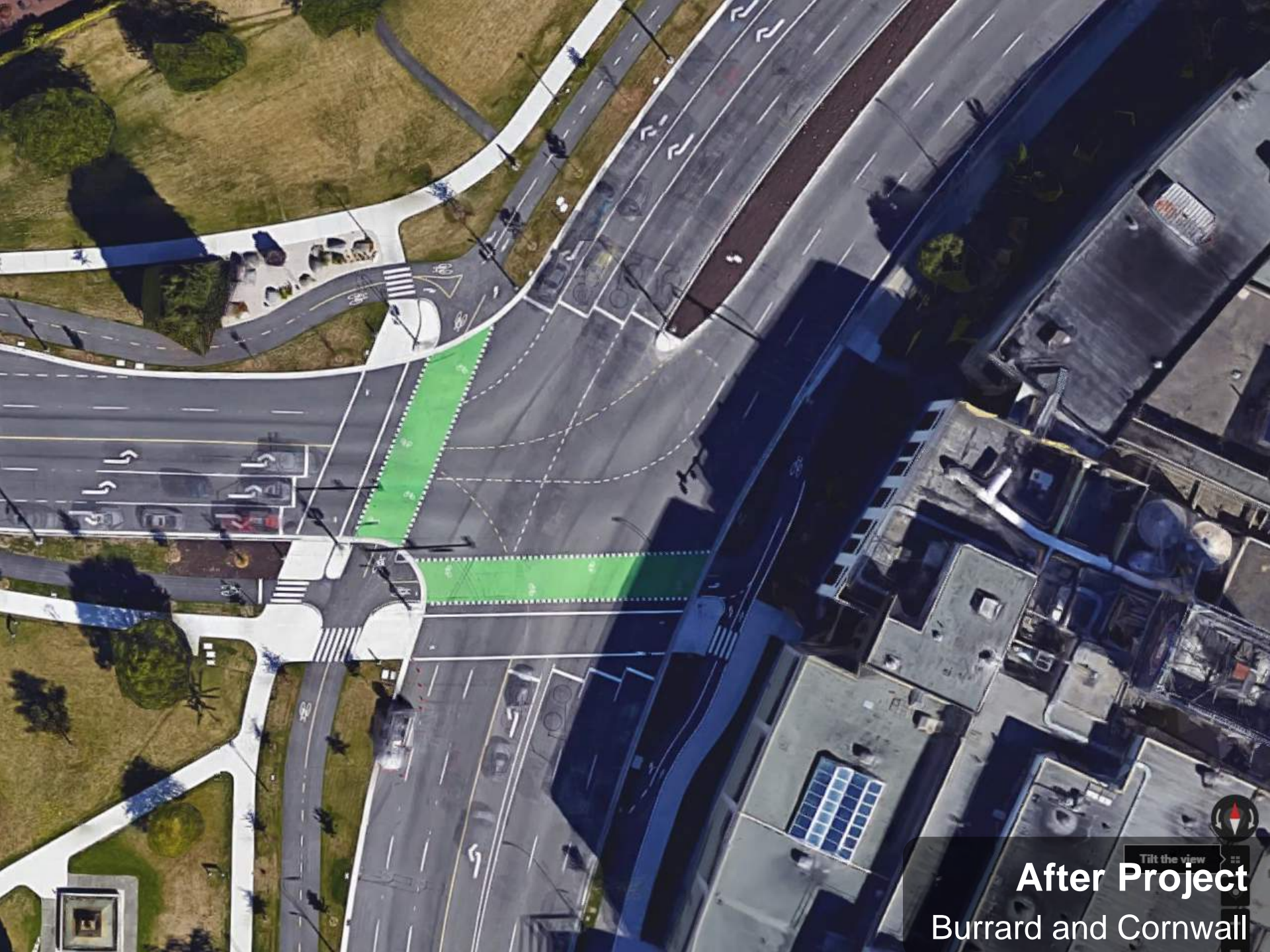
**After Project**  
Burrard and Cornwall



**Burrard and Cornwall**  
(Kathleen Corey/Brian Gould)



**Before Project**  
Burrard and Cornwall



Tilt the view

**After Project**  
Burrard and Cornwall







Vancouver Museum  
← Planetarium

Cypress St. 1400



COAST  
GUARD  
←

Molson  
1766  
346

22 MACDONALD

**Before Project**  
Cornwall at Cypress



← St. Roch  
Vancouver Museum  
← Planetarium

Cypress St. 1400

MOLSON  
2 1/2

**After Project  
Cornwall at Cypress**



**Before Project**  
Cornwall at Cypress



**After Project  
Cornwall at Cypress**



**Before Project**  
Cornwall at Burrard



**After Project**  
Cornwall at Burrard



**Before Project**  
Burrard at Cornwall



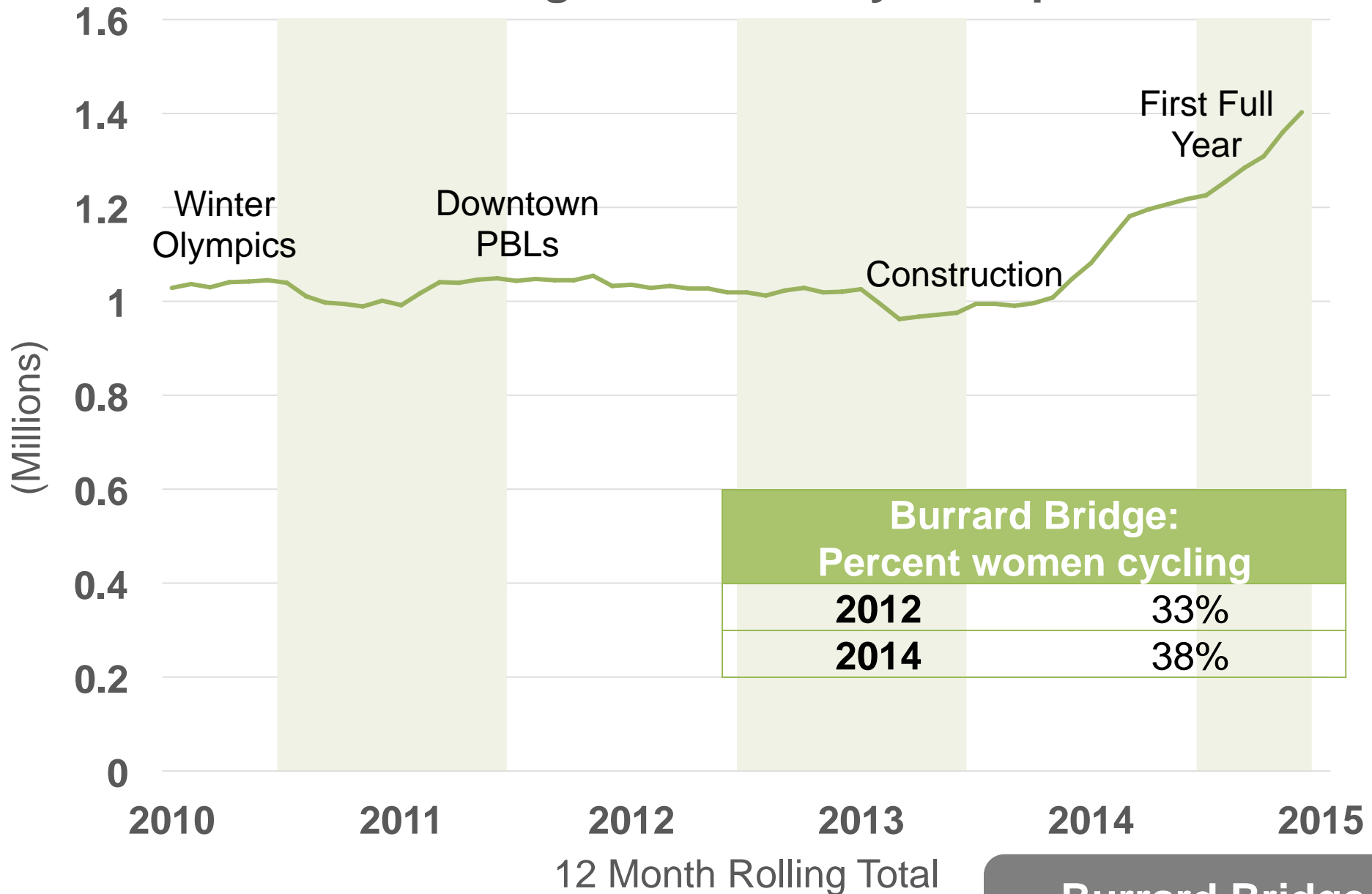
**After Project**  
Burrard at Cornwall





**Burrard at Cornwall**  
(Kathleen Corey/Brian Gould)

# Burrard Bridge: Annual Bicycle Trips



**Burrard Bridge**  
Rolling Total

One millionth rider on Burrard Bridge bike lane  
in 2015 represents major milestone

BY CHRIS & MELISSA BRUNTLETT  
9:47 PM PDT, SAT AUGUST 22, 2015

1.3k SHARES

Share on Facebook (1.1k)

NEWS

OPINIONS & RANTS

Share on Twitter (168)

Comments  
TRANSPORTATION

**Congratulations!**

You're **one in a million**  
people to cycle over  
the Burrard Bridge so  
far in 2015!

[vancouver.ca/bikevancouver](http://vancouver.ca/bikevancouver)



CITY OF VANCOUVER

GREENEST CITY 2020

11/15

BICYCLES TODAY

1478

THIS YEAR

100000

Bike Trips on both  
East and West Sides of  
the Burrard Bridge

Burrard at Cornwall

(Ken Ohrn)

# **Burrard Bridge North End**

## **Burrard Street and Pacific Street**

## Bridges and Other Crossings

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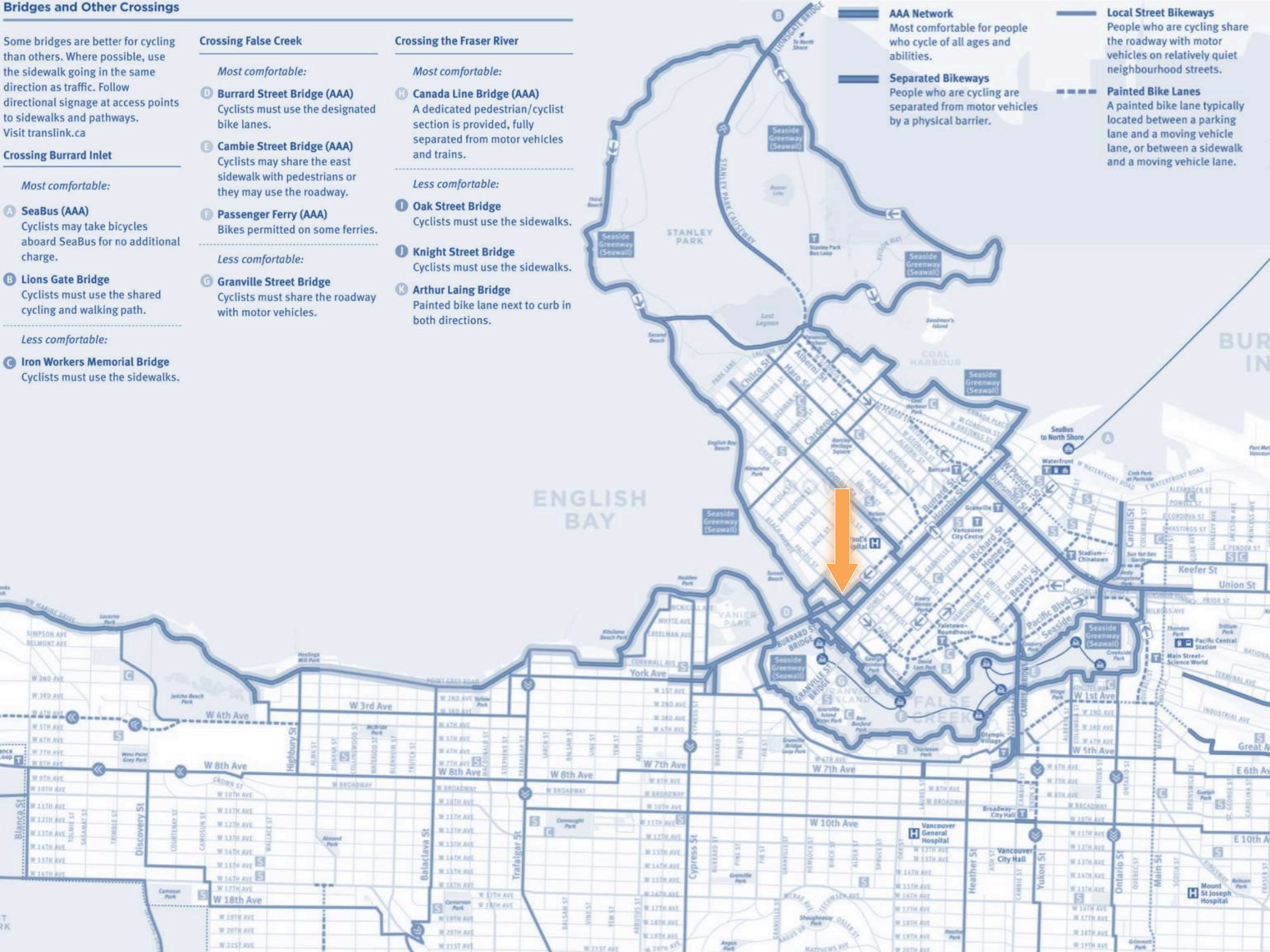
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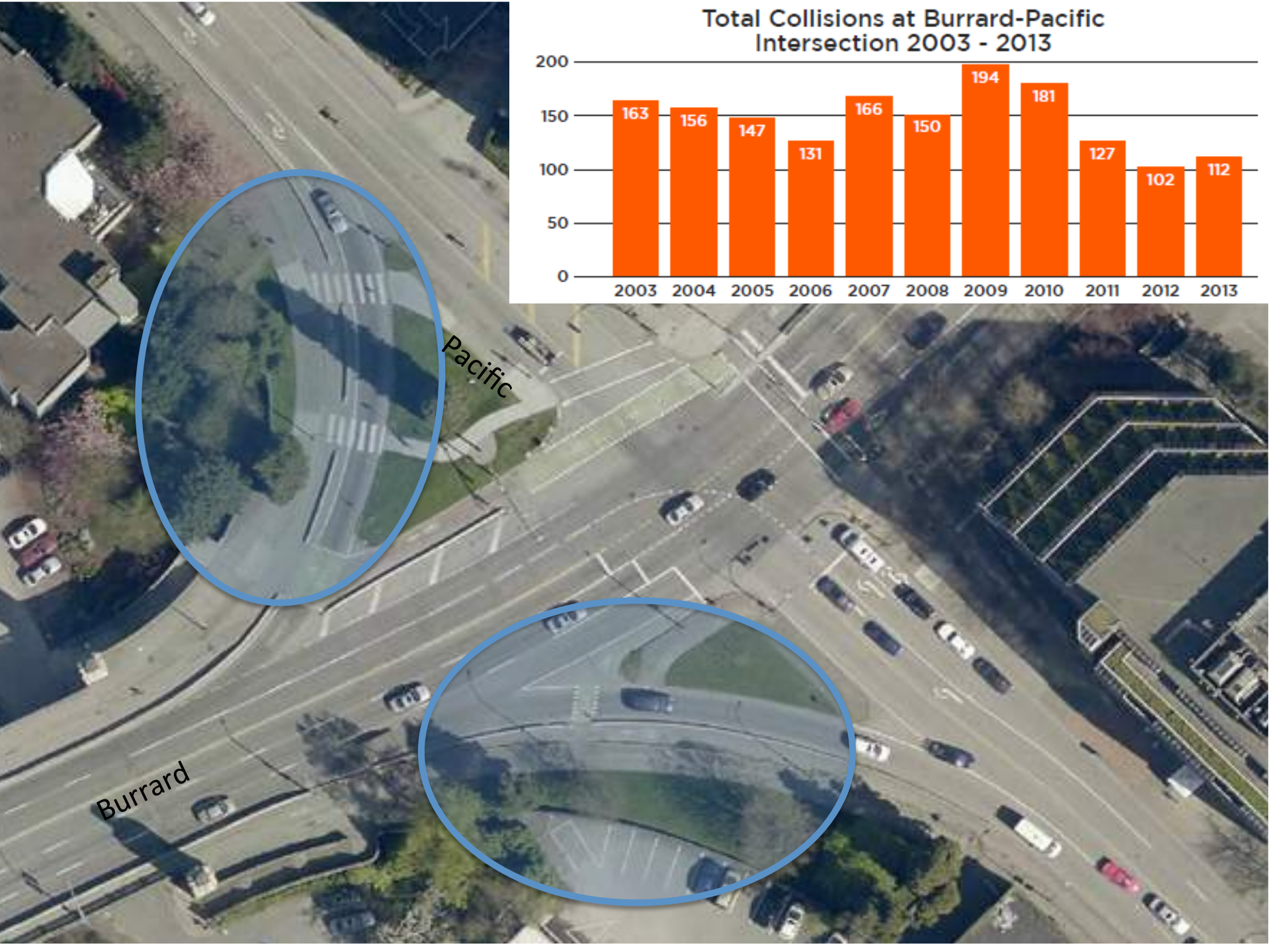
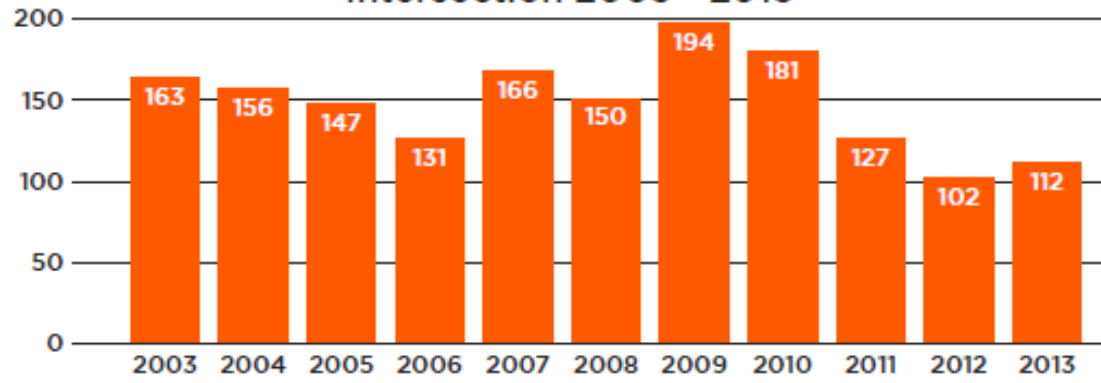




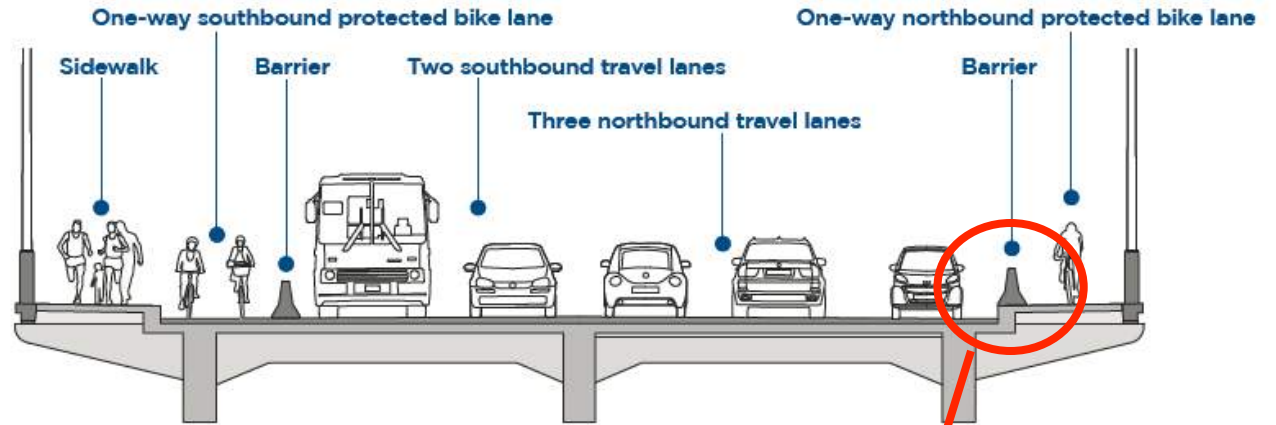
1. Improve Safety
2. Reintroduce walking to both sides of the bridge
3. Improve AAA Cycling network into Downtown
4. Coordinate with asset renewal projects

**Existing Condition**  
Burrard at Pacific

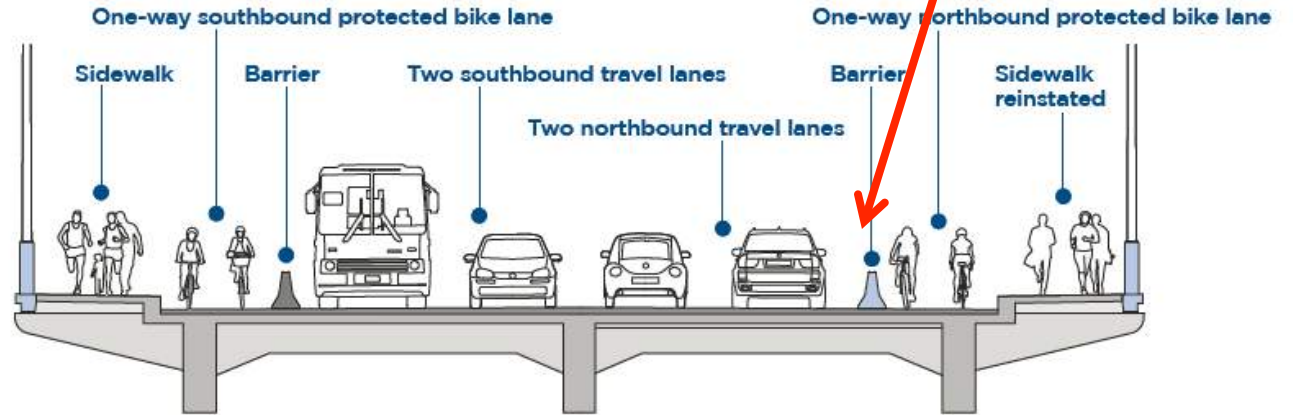
Total Collisions at Burrard-Pacific Intersection 2003 - 2013



# Existing



# Proposed



**Midspan Changes**  
Burrard Bridge





BRITISH  
COLUMBIA

Seaside  
Greenway  
(Seawall)

St Paul's  
Hospital



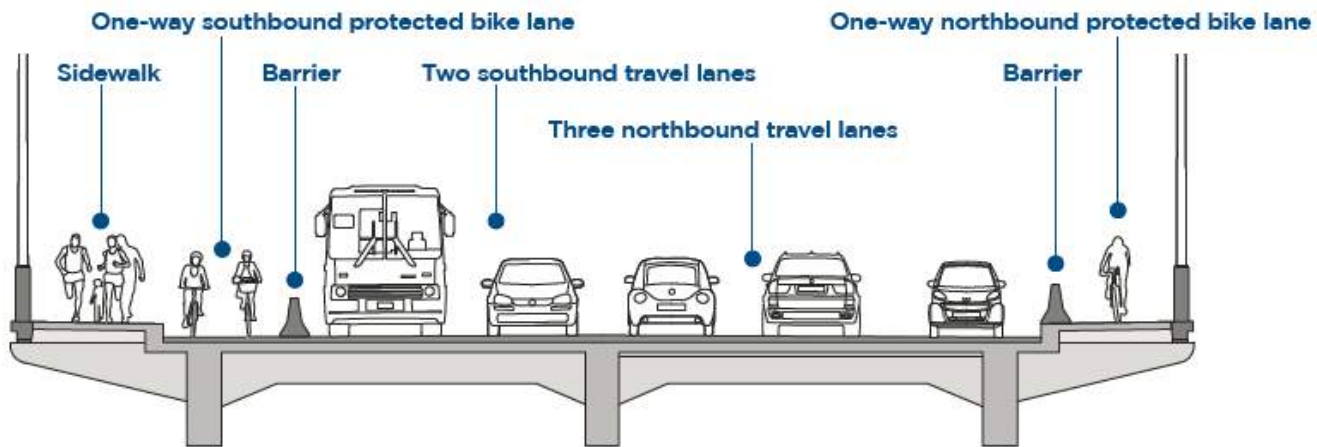
Seaside  
Greenway  
(Seawall)

YORK AVE

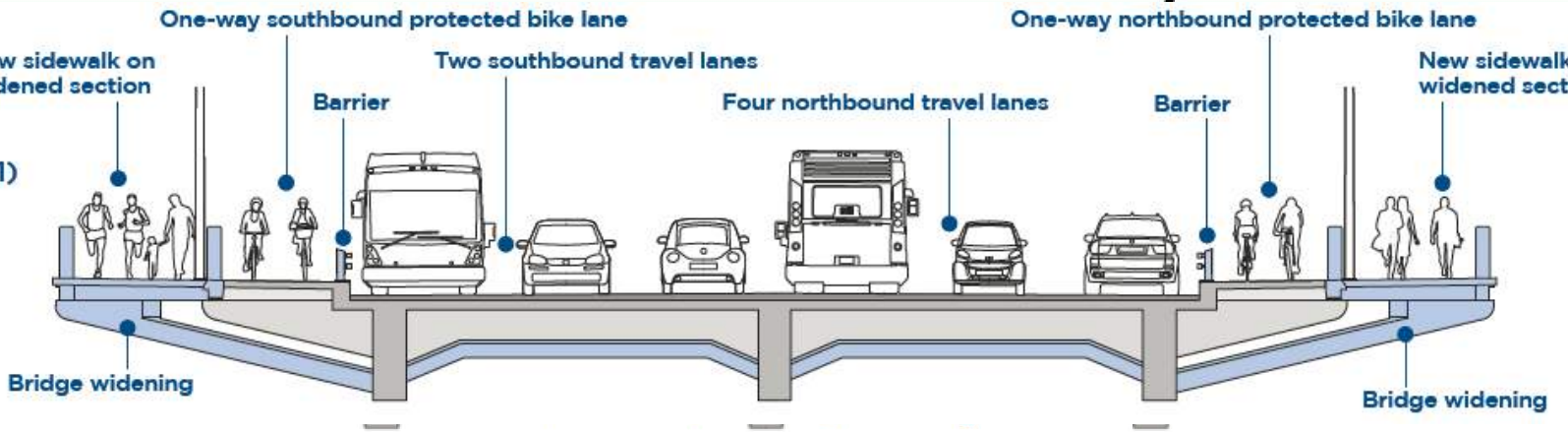
BURRARD ST  
BRIDGE

Yaletown  
Roundhouse

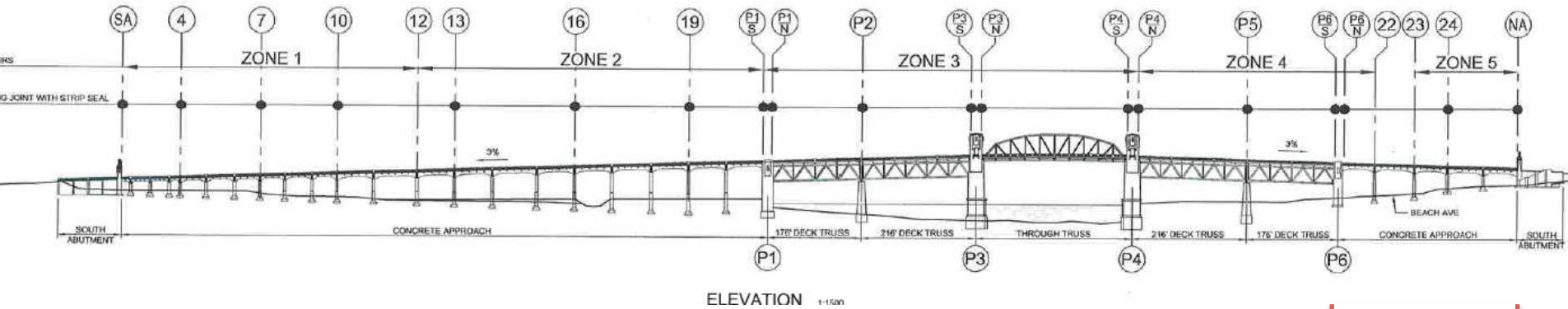
# Existing



# Proposed (Existing as Section 1)

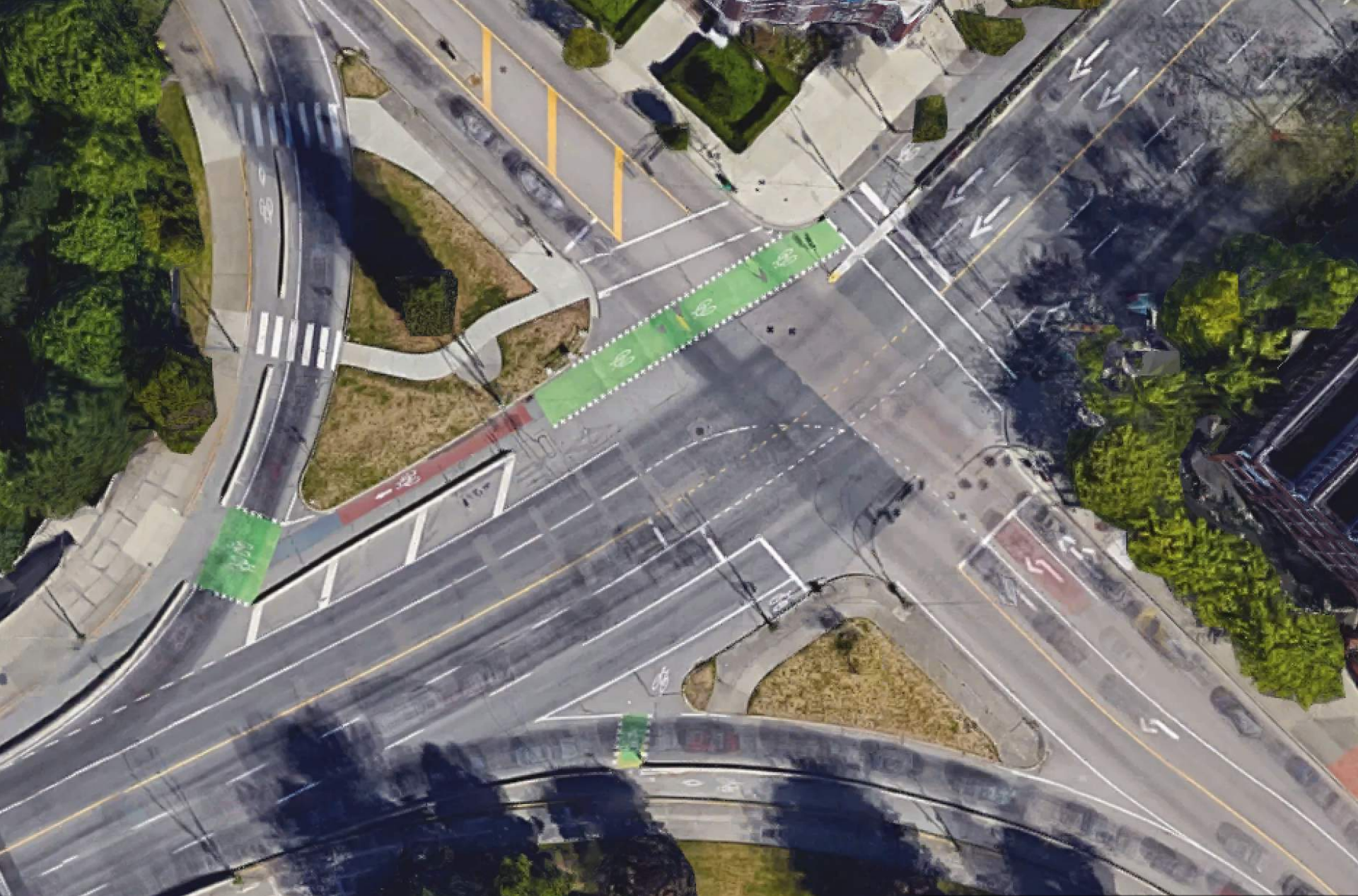


**North End Changes**  
Burrard Bridge



**Widening**

**North End Changes  
Burrard Bridge**



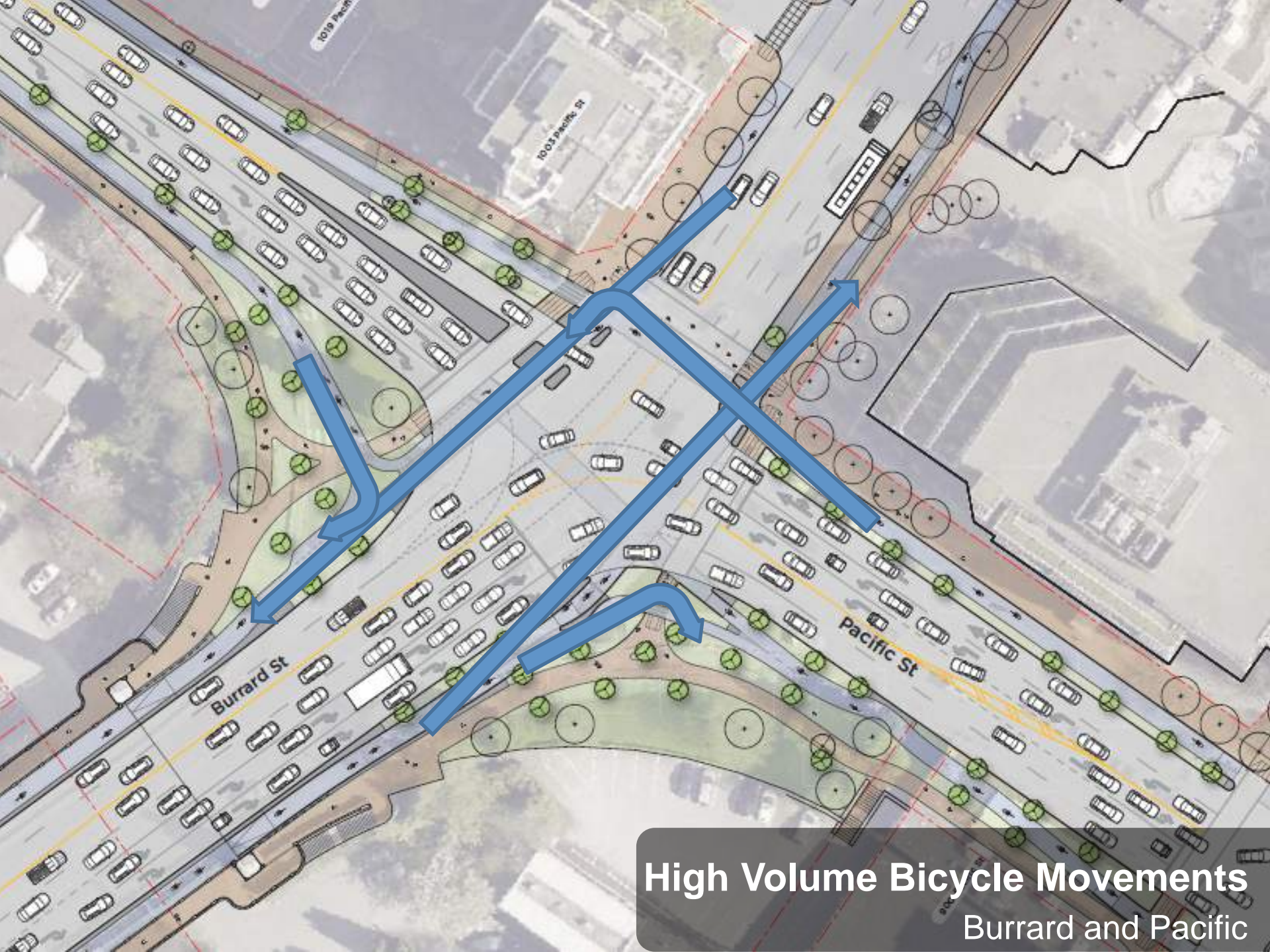
**Existing Conditions**  
Burrard at Pacific



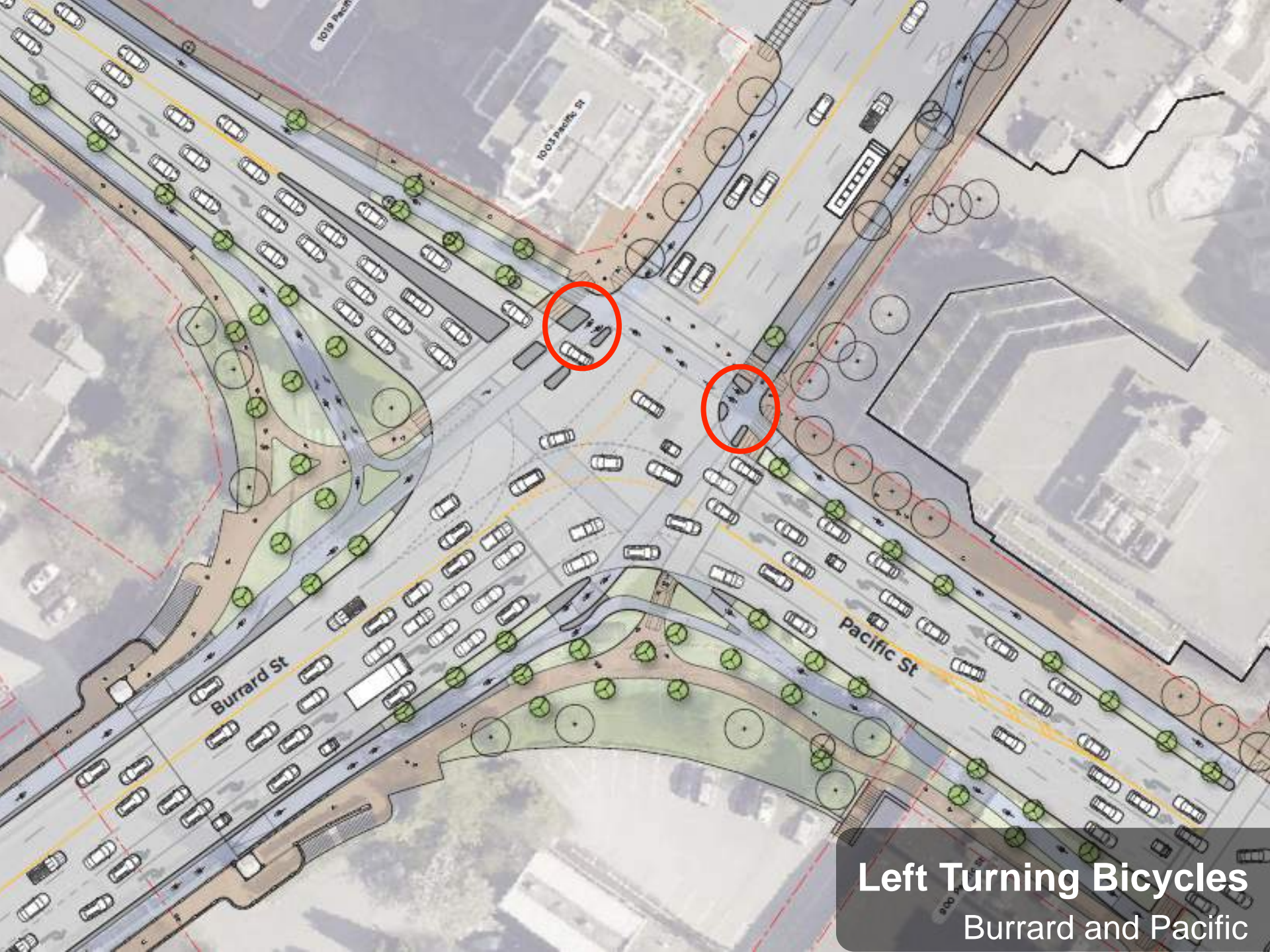
Burrard St

Pacific St

**Approved Design**  
Burrard and Pacific



**High Volume Bicycle Movements**  
Burrard and Pacific

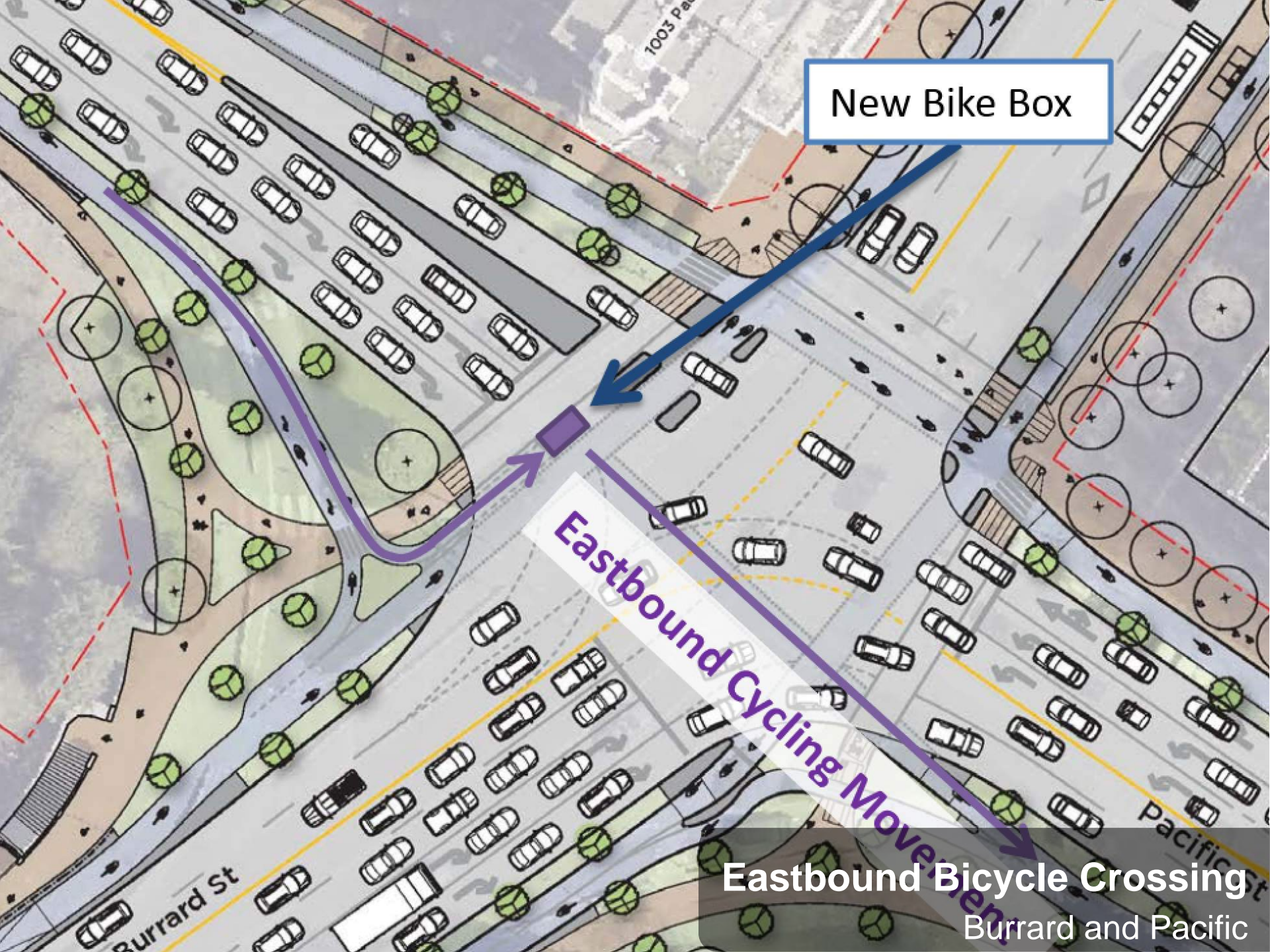


**Left Turning Bicycles**  
Burrard and Pacific

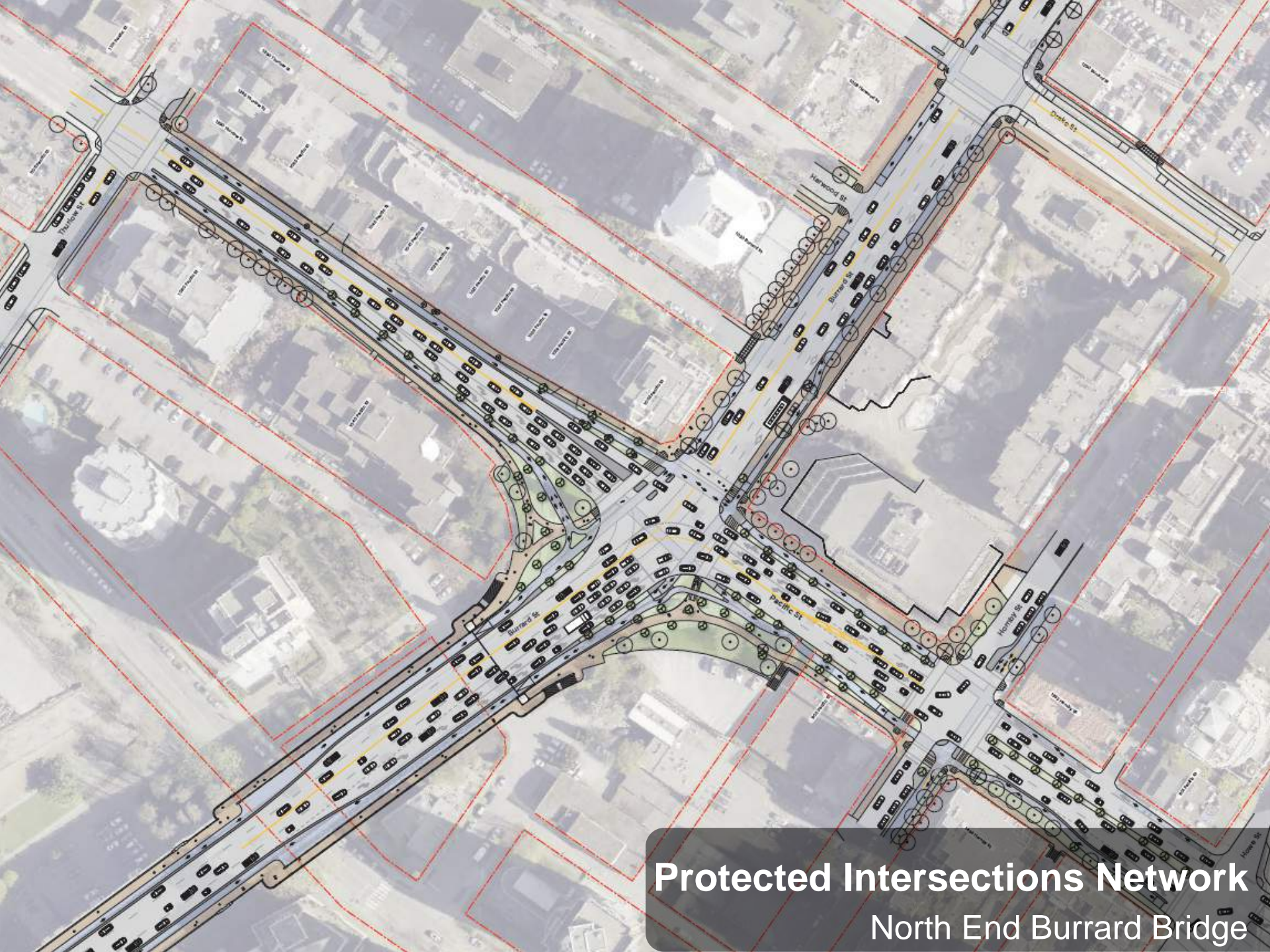
New Bike Box

Eastbound Cycling Movement

Eastbound Bicycle Crossing  
Burrard and Pacific







# Protected Intersections Network

North End Burrard Bridge

# **York Bikeway-Seaside Greenway**

## **Stephens Street and Point Grey Road**

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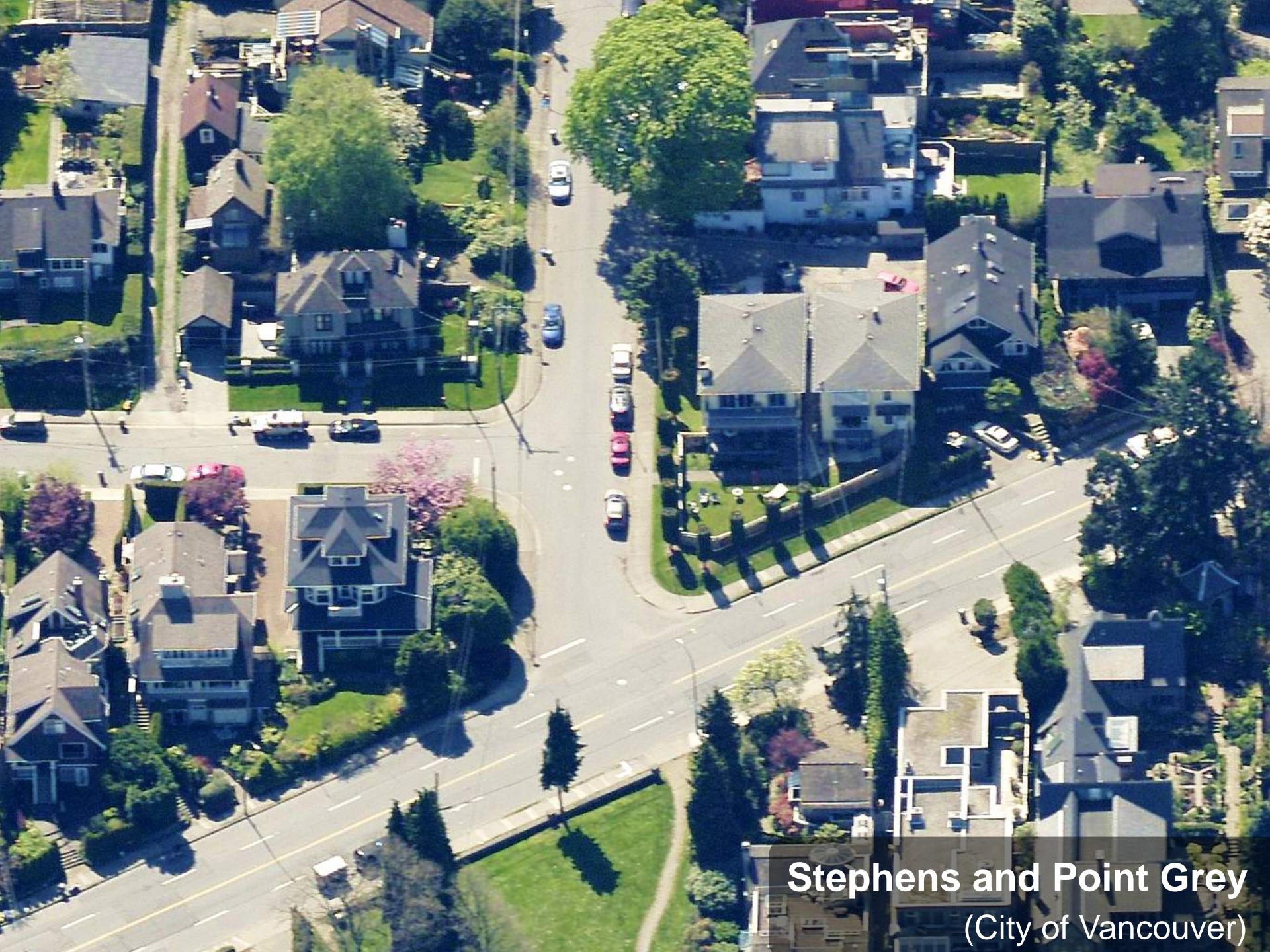




**Macdonald and Point Grey**  
Before Project



**Macdonald and Point Grey**  
(Kathleen Corey/Brian Gould)



**Stephens and Point Grey**  
(City of Vancouver)



**Stephens and Point Grey**  
(Kathleen Corey/Brian Gould)



GREY

STOP

**Before Project**  
Stephens at Point Grey





**After Project**  
Stephens at Point Grey



**After Project**  
Alma at Point Grey



## Seacycles: Burrard Bridge to Point Grey Road

from **Kathleen Corey and Brian Gould** [PLUS](#) 2 months ago / [CC](#) [BY](#) [NC](#) [ND](#) [NOT YET RATED](#)

False Creek's oldest bridge, Seaforth's spreading trees. Joined by paths like those between Jericho and Kits Beach.

Pocket parks sewn into a ribbon - Tatlow stitched to Volunteer. Ride a tandem by the seashore, run a triathlon on the sea.

A dozen cars for every bicycle? A dozen bikes for every car. What was louder than the waves is but an eddy in the wind.

Gentle ripples lapping at the wall, trickles open up a crack. The waves were out there waiting, and now they're rushing through.

**Seacycles on Vimeo**  
(Kathleen Corey/Brian Gould)

# **Downtown Protected Bike Lanes**

## **Dunsmuir Street and Hornby Street**

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EXCEPT BICYCLES

PARK PLACE

 Hornby St

Hornby St

CANADIAN WESTERN BANK

Hornby St





**After Extension**  
Dunsmuir at Hornby



**Before Extension**  
Dunsmuir at Hornby





**After Extension**  
Dunsmuir at Hornby

# Protected Intersections: A Category, Not a Template



**Comox Street and  
Denman Street**



**Comox Street and  
Thurlow Street**

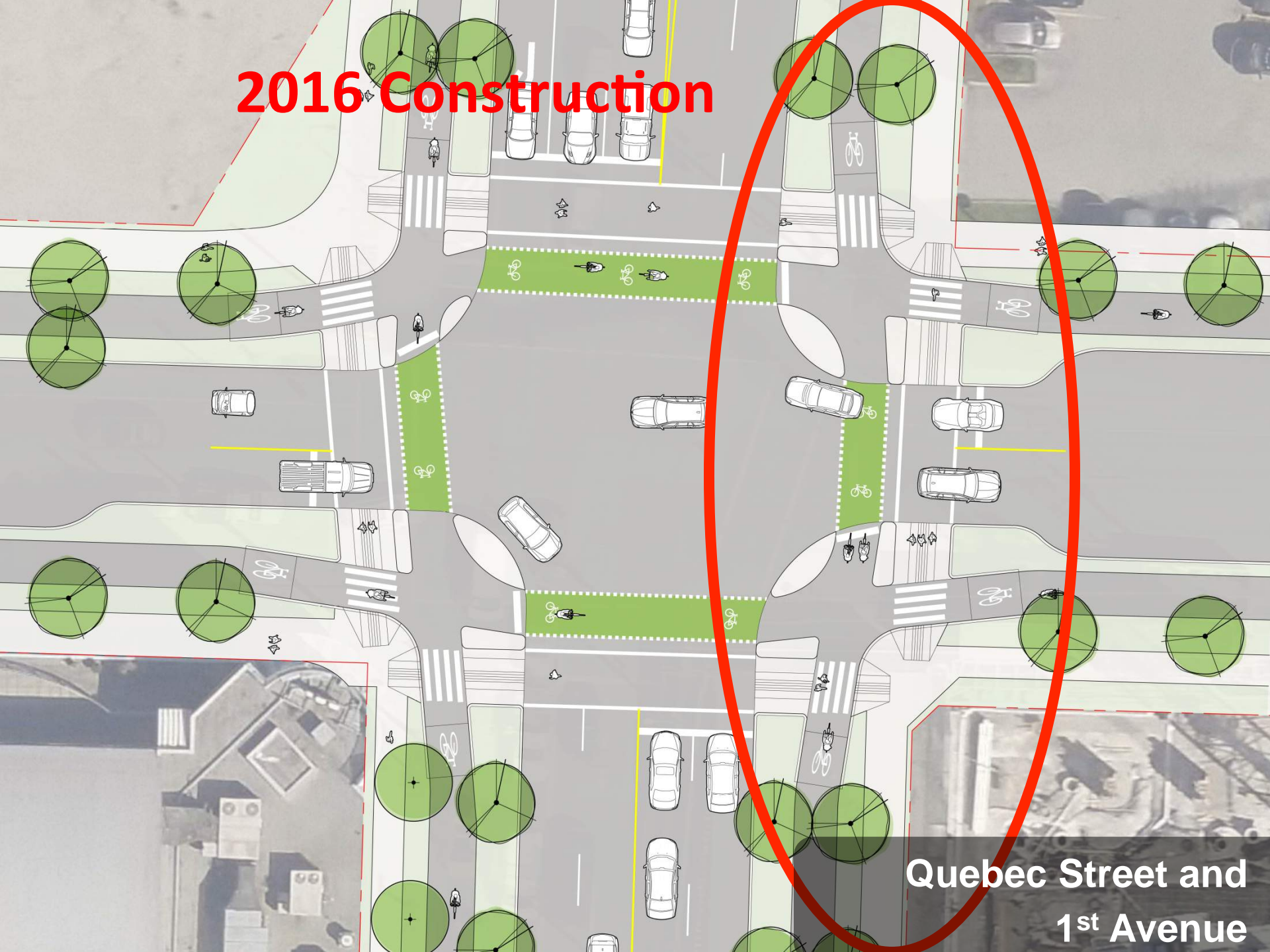


**Comox Street and  
Burrard Street**

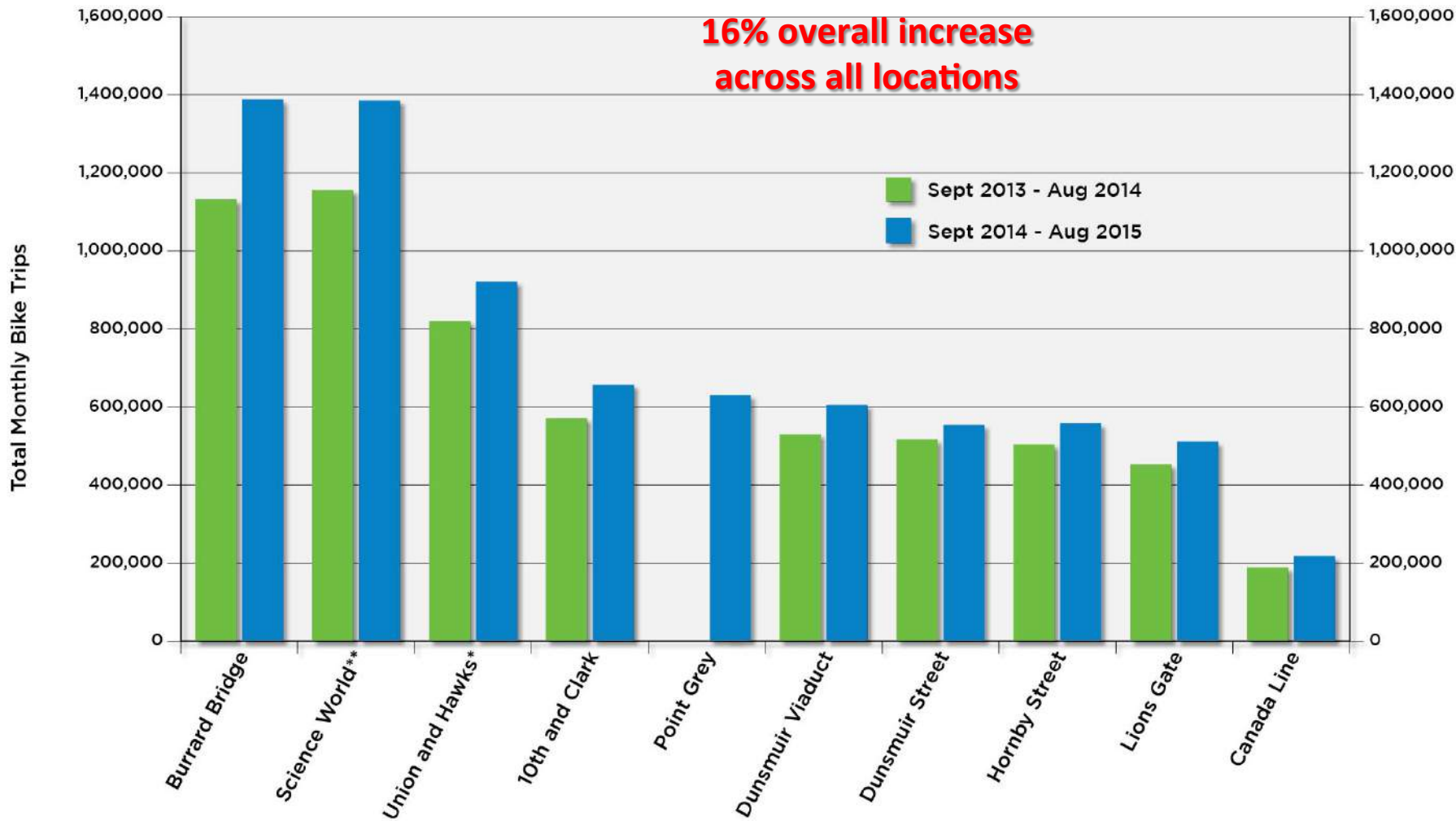


**Cambie Street Bridge  
And Expo Boulevard**

**2016 Construction**



**Quebec Street and  
1st Avenue**



\*estimated total due to 1 month of missing data

\*\*estimated total due to 3 months of missing data

**Cycling Volume Grown**  
9 Permanent Counters





**Questions  
and  
Discussion**

bike vancouver