# Vancouver-UBC Local Committee

June 18<sup>th</sup>, 2019



Your Cycling Connection

www.bikehub.ca

# Topics

- BC Active Transportation Announcements
- Jersey
- Deep Dive Drake St Bikeway
- Consultations
  - 10<sup>th</sup> Ave Phase IV (Post Construction) Evaluation

# BC Government Releases this week:

- BC Active Transportation Strategy
  - All forms of Active Transportation
  - Linked to public health
  - Upcoming changes to the Motor Vehicle Act
  - Document <u>here</u>
- BC Active Transportation Design Guide
  - Best Practices for walking and cycling infrastructure
  - Applicable to all levels of government
  - Not regulated, but promoted with grant programs
  - Document <u>here</u>

#### EVOLUTION JERSEY- QUICK DESIGN

CJ52M-55

#### HUB CYCLING

7000738







# Park Board Working Group (Lisa)

- 25 Year Master Plan going to Commissioners July 17
- Currently reviewing draft final reports to see how cycling has been included IN parks – at first glance, a big improvement, although high level
- Waiting to see the implementation plan for details
- Kits Park interim quick fixes for this summer
  - City Transportation Engineer involved
  - Primarily signs and stencils
- Stanley Park improvements
  - First project path to Ceperley Field from Beach Ave

## Kits Beach Park Interim Quick Fixes



# Stanley Park Cycling Plan Update

#### STANLEY PARK CYCLING & PEDESTRIAN IMPROVEMENTS CONTEXT MAP

#### PURPOSE:

-IMPROVE SAFETY FOR CYCLISTS AND PEDESTRIANS -PROVIDE FOR GREATER ACCESSBILITY -REDUCE IMPACTS TO PARK ECOLOGY CAUSED BY OFF-TRAIL CYCLING/PEDESTRIAN ACTIVITY BY PROVIDING FORMAL PATHS AT DESIRED ROUTES

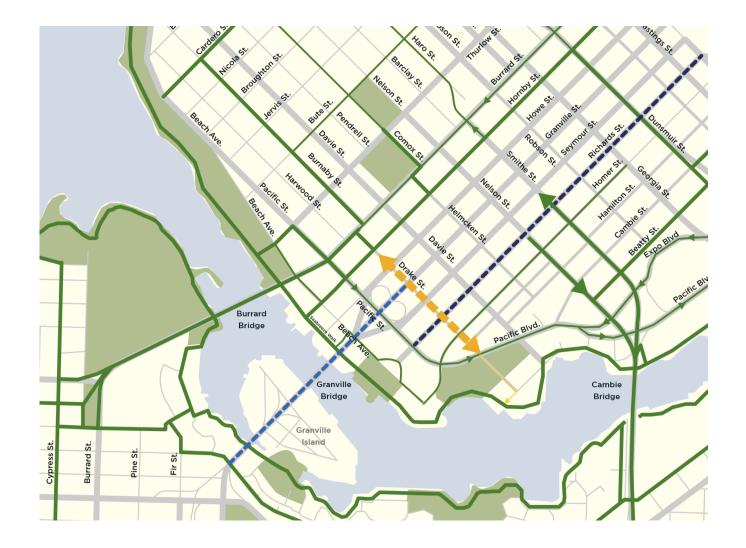
- 1. CYCLING ACCESS TO NORTH LAGOON DR. FROM CAUSEWAY (WEST SIDE)
- 2. ACCESSIBLE ROUTE FROM ROSE GARDEN TO CAUSEWAY (EAST SIDE)
- 3. PEDESTRIAN ACCESS TO PARK TRAILS FROM CAUSEWAY (WEST SIDE) AT PEDESTRIAN OVERPASS
- 4. ACCESSIBLE CYCLING/PEDESTRIAN ROUTE FROM HANSON TRAIL TO CAUSEWAY (EAST SIDE)
- 5. PEDESTRIAN ACCESS TO CAUSEWAY (EAST SIDE) FROM STANLEY PARK DRIVE
- 6. CYCLING/PEDESTRIAN CONNECTION BETWEEN CAUSEWAY (WEST SIDE) AND STANLEY PARK DRIVE AT PROSPECT POINT ALONG EXISTING OFF-RAMP
- 7. IMPOVED CYCLING/PEDESTRIAN PATHS FROM ENGLISH BAY TO CEPERLEY FIELD
- 8. IMPROVED CYCLING/PEDESTRIAN PATHS AT CEPERLEY FIELD (WEST SIDE OF STANLEY PARK DRIVE)
- 9. IMPROVED CYCLING/PEDESTRIAN PATHS AT CEPERLEY MEADOW (EAST SIDE OF STANLEY PARK DRIVE)
- 10. SAFE CYCLING/PEDESTRIAN CROSSING OF PARKING AREA ACCESS ROAD AT SECOND BEACH CONCESSION
- 11. ACCESSIBLE ROUTE FROM SEAWALL TO TUNNEL TRAIL



# Drake St Bikeway

- Public Open House June 18<sup>th</sup> (today)
- Online survey open until July 8th
- Please send in your comments and support
- Our messages:
  - We support this as it is a critical gap
  - We prefer the bi-directional option
  - We request that a transition zone be included on Drake east of Pacific

# Drake St Bikeway



## Drake St Bikeway – Two Options

#### **Uni-directional Bike Lane Option**

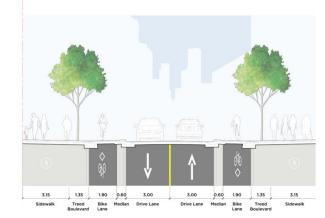


Figure 2: Drake Street Facing West



#### **Bi-directional Bike Lane Option**

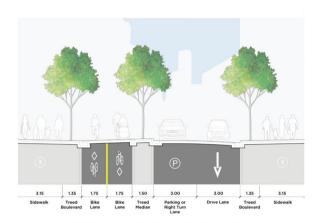


Figure 3: Drake Street Facing West



### Drake St - Current Situation

#### Uncomfortable Mixed Traffic

#### **Confusing Turns**



#### **Discontinuous Routes**

#### Difficult Connections to Granville Bridge



## Drake St - Uni-directional Option







## Drake St - Bi-directional Option







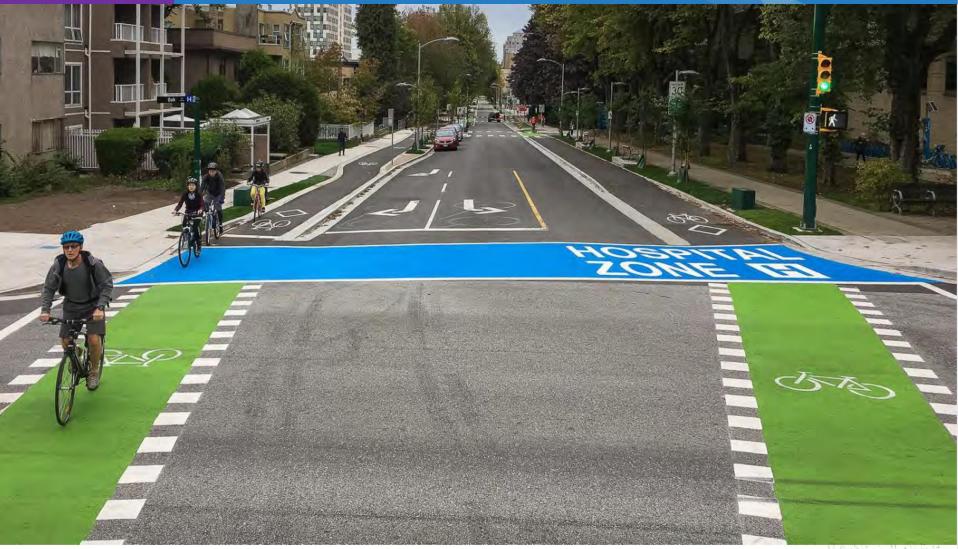
10<sup>th</sup> Ave Hospital Zone Street Improvements

### **Project Update**



10<sup>th</sup> Ave Hospital Zone Street Improvements

### **Project Update**



MANGOLVER.

# 10<sup>th</sup> Ave Phase IV Engagement

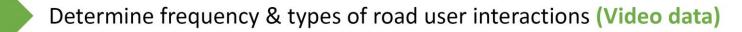
- Committed to by the City as part of project approval
- City study of conditions before and after
  - Counts
  - Speeds
  - Conflicts, including crash data
- Research Project
  - Focused on interactions between people using different modes

# 10<sup>th</sup> Ave Evaluation Committee Research Study

### Objectives



Determine concerns for **pedestrians** in navigating the rebuilt portion of 10<sup>th</sup> Ave (Interviews, Survey)





Determine frequency of uncomfortable and unsafe interactions (Survey)



Examine differences in the perceptions of interactions among stakeholders: general public, evaluation committee, and traffic safety professionals (Interviews, Survey)

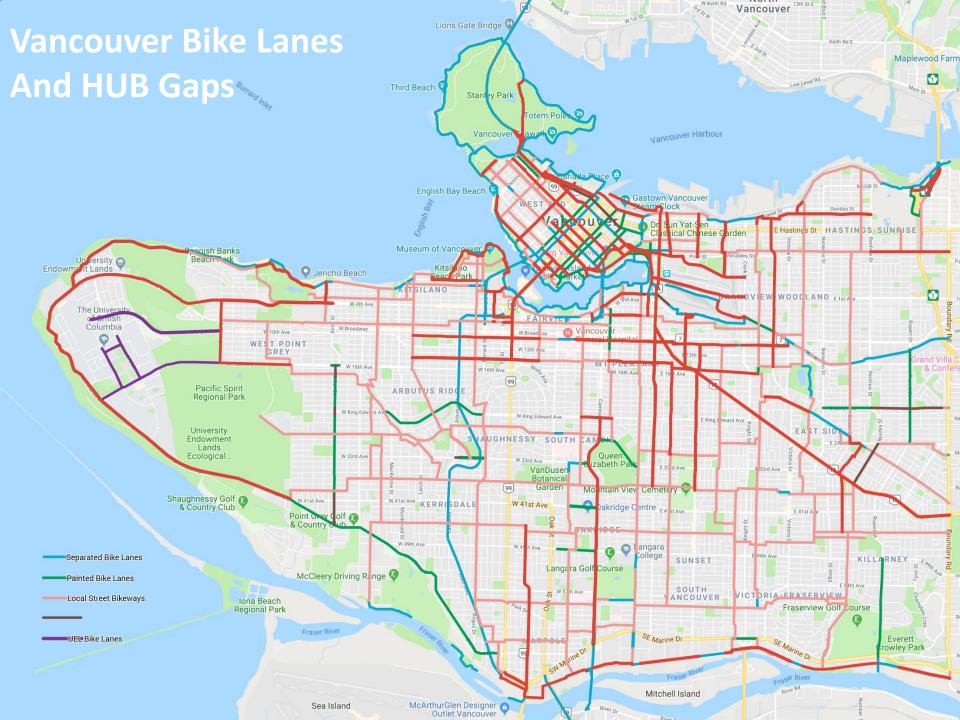
# 10<sup>th</sup> Ave Evaluation Committee Research Study

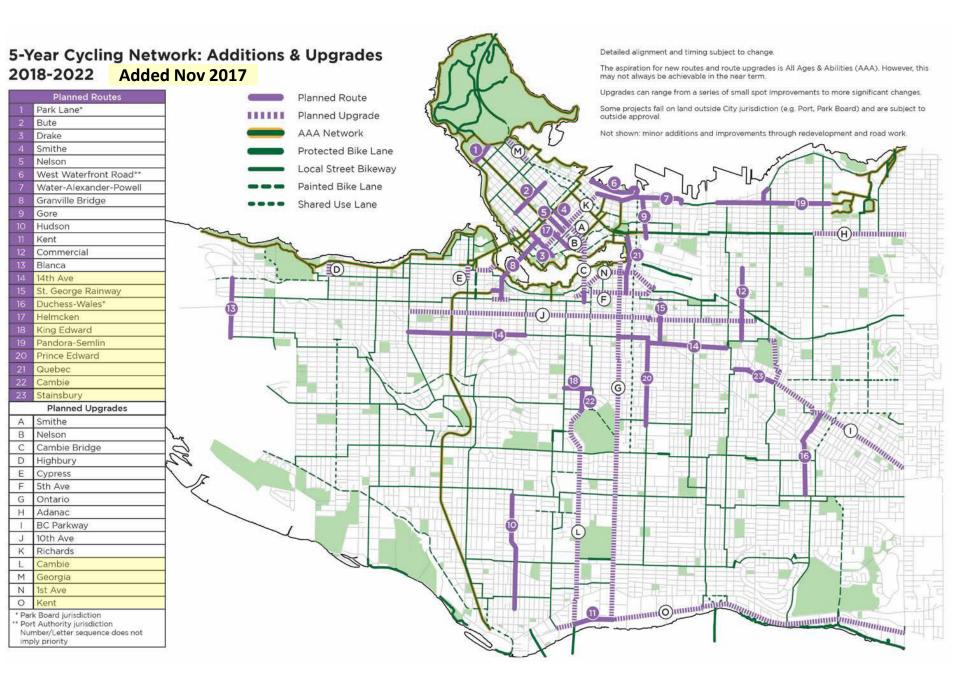
### Observations of Yielding, Comfort, and Safety

- Importance of eye contact/non-verbal communication in negotiating complex road user environment
- Many pedestrians giving way to bikes and cars at crossings
- Virtually all the interactions we saw were **considerate**
- Very slow travel speeds at mid-day time periods
- Pick up/drop off zones seemed to be working well
- Driveways are interaction zones (in addition to the intersections)

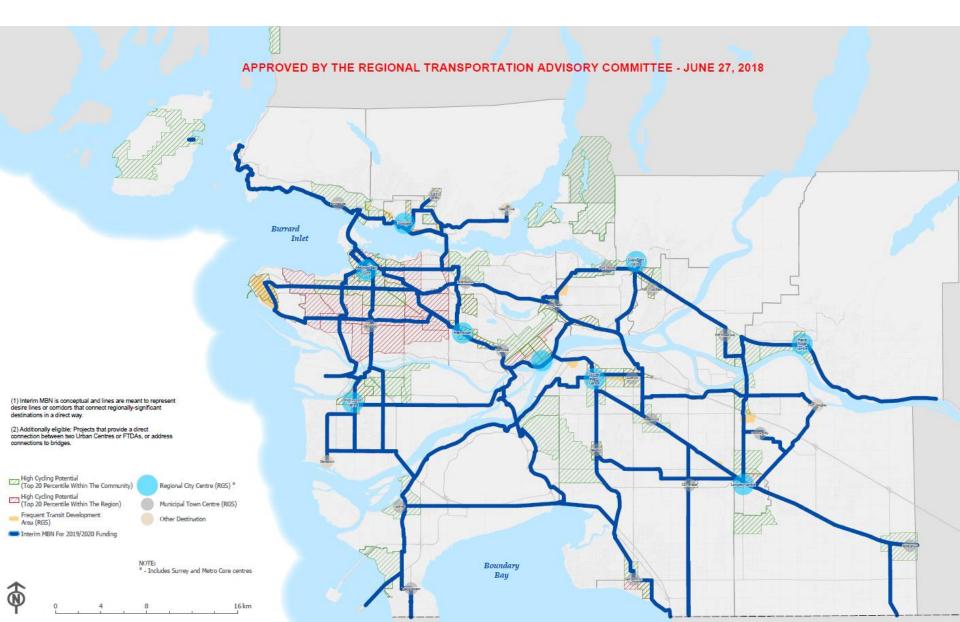
# Appendices







# Translink Major Bikeway Network (MBN)



	Type *	Class A** (Comfortable for most people)	Class B (Comfortable for some people)	Class C (Comfortable for few people)	Notes
	Separated from vehicle traffic				
1	people cycling, may be unidirectional or	Unidirectional 2.1-3.0 m Posted Speed: N/A	Width: Bidirectional 2.4-3.0 m, Unidirectional 1.5-2.0 m Posted Speed: N/A Volume: N/A	facilities would be unclassified but may be shown on a regional cycling map	When in a road right of way (ROW): A bike path should fall outside of the Clear Zone (>1.2 m on roadways with posted speeds of <60 km/h - see Transportation Association of Canada Geometric Design Guide (TAC GDG), Table 7.3.1 for higher speed roads). Further, designs of bike paths should avoid obstacles in the pathway, include adequate sight lines and lighting, be direct, and avoid the use of rigid bollards. If cyclist volumes exceed 1,500 per day then recommended facility widths shall be >3.6 m bidirectional, and >2.4 m unidirectional. Bike Path's are generally appropriate near higher speed roads.
2		Unidirectional 2.1-3.0 m Posted Speed: ≤60 km/h	Width: Bidirectional 2.4-3.0 m, Unidirectional 1.5-2.0 m Posted Speed: ≤80 km/h Volume: N/A	regional cycling map	Separation from vehicles by delineator (curbs, bollards, concrete barriers, etc.) is required. Type of delineator dependent on speed and volume of traffic (for specific details see TAC GDG Chapter 5, section 5.7.5). Parking may provide additional barrier beyond the delineator - at a minimum curbstops over 100 mm high are necessary with periodic gaps for drainage and wheelchair access. Width of delineator is 0.30-1.0 m. If adjacent to parking, min separation is >0.80 m (Class A), >0.60 m (Class B). Volume: If motor vehicle ADT is greater than 4,000, this facility is more acceptable than others. If cyclist volumes exceed 1,500 per day then recommended facility widths shall be >3.6 m bidirectional, and >2.4 m unidirectional.
3	for shared use by people cycling and pedestrians.	Unidirectional bikes 3.0-4.0 m Posted Speed: N/A Volume: N/A	Width: Bidirectional 3.0-3.9 m, Unidirectional bikes 2.4-2.9 m Posted Speed: N/A Volume: N/A Paved	Unidirectional bikes 2.1-2.3 m Posted Speed: N/A Volume: N/A Unpaved	MUP's are not intended to replace a sidewalk where there is sufficient motor vehicle or pedestrian and bicycle traffic that may lead to high rates of conflict. As a guide, MUPs are not appropriate when pedestrian and bicycle traffic volumes exceed a total peak hour volume of 200 users or where motor vehicle volumes on the parallel roadway exceed 4,000 ADT. MUPs are generally appropriate near higher speed roads. A MUP should fall outside of the Clear Zone (>1.2 m on roadways with posted speeds of <60 km/h - see TAC GDG, Table 7.3.1 for higher speed roads). Further, designs of MUPs should avoid obstacles in the clear zone, include adequate sight lines and lighting, be direct, and avoid the use of rigid bollards.
	Unseparated from vehicle traffic				
4	Neighbourhood Street Bikeway or Shared Roadway: Bikes and motor vehicles share the roadway, which provides a continuous corridor of suitable operating conditions for people cycling, including limiting exposure to motor vehicle traffic. Can include a variety of roadways including local roads, alleys and service roads.	parking both sides 8.0 - 11.0 m Posted Speed: ≤30km/h Volume: ≤1,000 ADT Traffic control at all major intersections designed to be bicycle	Width: Parking one side 5.5 - 7.5 m, parking both sides 8.0 - 11.0 m Posted Speed: s30km/h Volume: s2,000 ADT Traffic control at all major intersections designed to be bicycle activated. Traffic diversion and traffic calming preferred.	Posted Speed: ≤50 km/h Volume: ≤3,000 ADT	Traffic diversion can include such treatments as directional and median barriers. Traffic calming can include such treatments as raised crossings, and bicycle permeable humps and chicanes. All such facilities should include shared lane markings to indicate the potential presence and positioning of people cycling. Municipalities are encouraged to limit posted speeds to 30 km/h on all Neighbourhood Street Bikeways and Shared Roadways. Widths: If curb less than 100 mm, or parking along curb, gutter pan can be included in width. Otherwise, width excludes gutter pan.
5	Bike Lane: On-road facility adjacent to a curb or a parking lane and delineated from motor vehicles with paint markings.		Width: 1.8 - 2.4 m Posted Speed: ≤50 km/h Volume: ≤4,000 ADT Absence of curbside parking.	Width: 1.5-1.7 m Posted Speed: <60km/h Volume: N/A Presence of curbside parking permitted. If present, a buffer should be included btwn parking and bike Jane. Combined curbside parking & buffer should be >3.0 m.	If parking present or speeds/ volumes might exceed limits or over 1,500 people cycling per day, protected bikeway recommended. Widths: If curb less than 100 mm, or parking along curb, gutter pan can be included in width. Otherwise, width excludes gutter pan.
6	Bike Accessible Shoulder: Signed and marked, paved area with no curb, located to the right of roadway general purpose travel lanes, and separated from general purpose lanes by white edge line or painted buffer. Usually in rural areas. May be shared with pedestrians.		Width: 1.8-2.4 m Posted Speed: <50 km/h Volume: ≤4,000 ADT		Parking not permitted in bikeway. If speeds/ volumes exceed limits, or over 1,500 people cycling per day protected bikeway recommended Width for buffered facility: 2.4-3.5 m total, bike lane 1.8-2.4 m

\* In all cases pavement markings (bicycle stencils) and signage are necessary at regular intervals and should be placed 20 to 30 metres in advance of, and following each intersection and other decision points, or every 400 m when intersections are not present.

\*\* Those facilities that do not meet the criteria for Classes A, B and C will be considered unclassified bikeway facilities. Such facilities should be upgraded over time to meet criteria for designated bikeways.