

WELCOME!



CITY OF NANAIMO DOWNTOWN MOBILITY HUB PROJECT

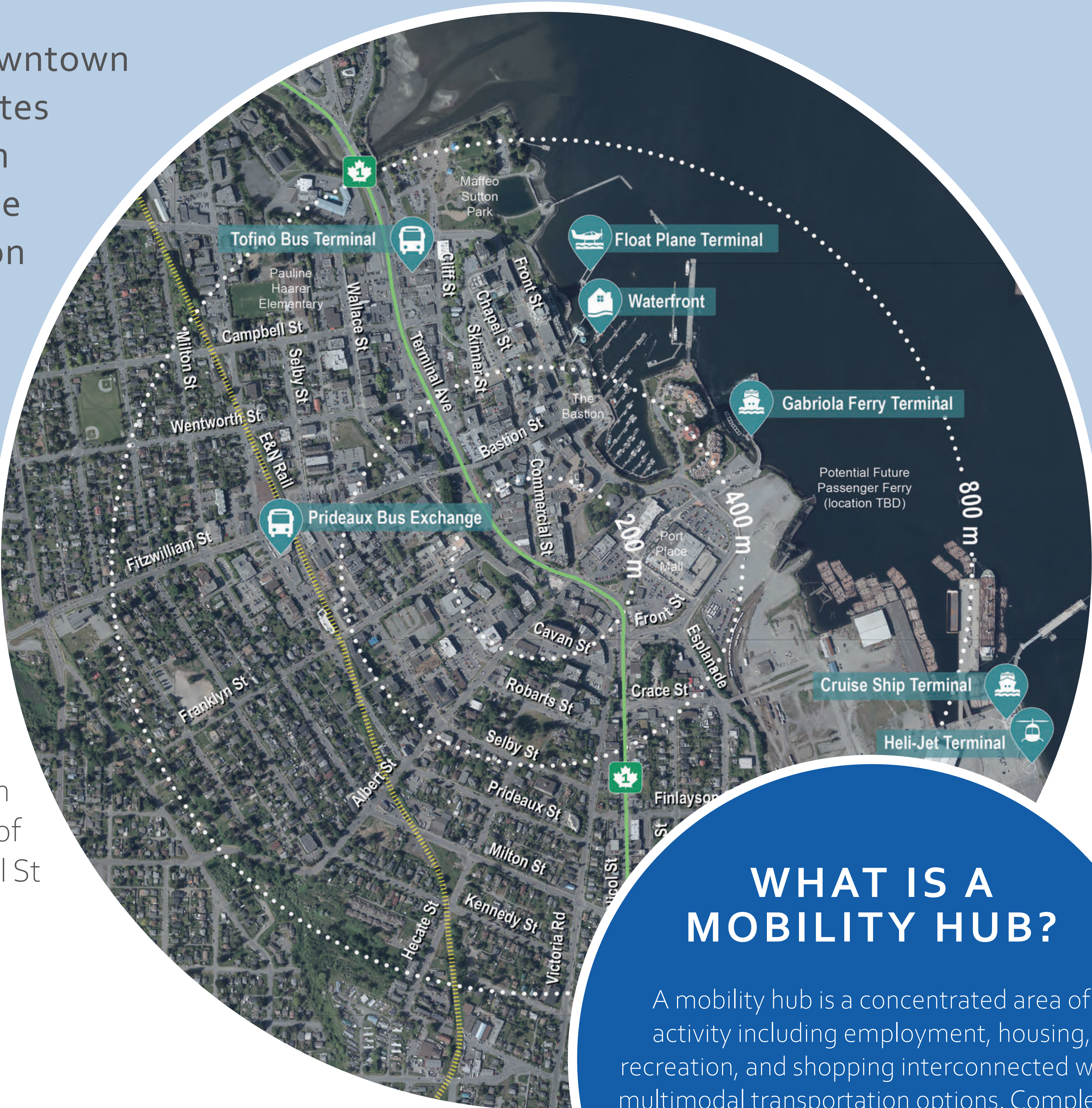


PHASE 2
COMMUNITY
ENGAGEMENT

INTRODUCTION

The City of Nanaimo is advancing the vision for an integrated downtown transportation network that safely and comfortably accommodates pedestrians, cyclists, transit users, and motorists. The Downtown Mobility Hub Project is defining **short-term** projects that could be **built in the next 5 years** to take concrete steps towards the vision of a safer, inclusive, and connected downtown Nanaimo.

This project builds on strategies like the Official Community Plan and Transportation Master Plan to apply policy and planning recommendations to on-the-ground improvements.



PROJECT AREA

The Downtown Mobility Hub focuses on an 800 m radius around the intersection of Terminal Ave and Commercial St

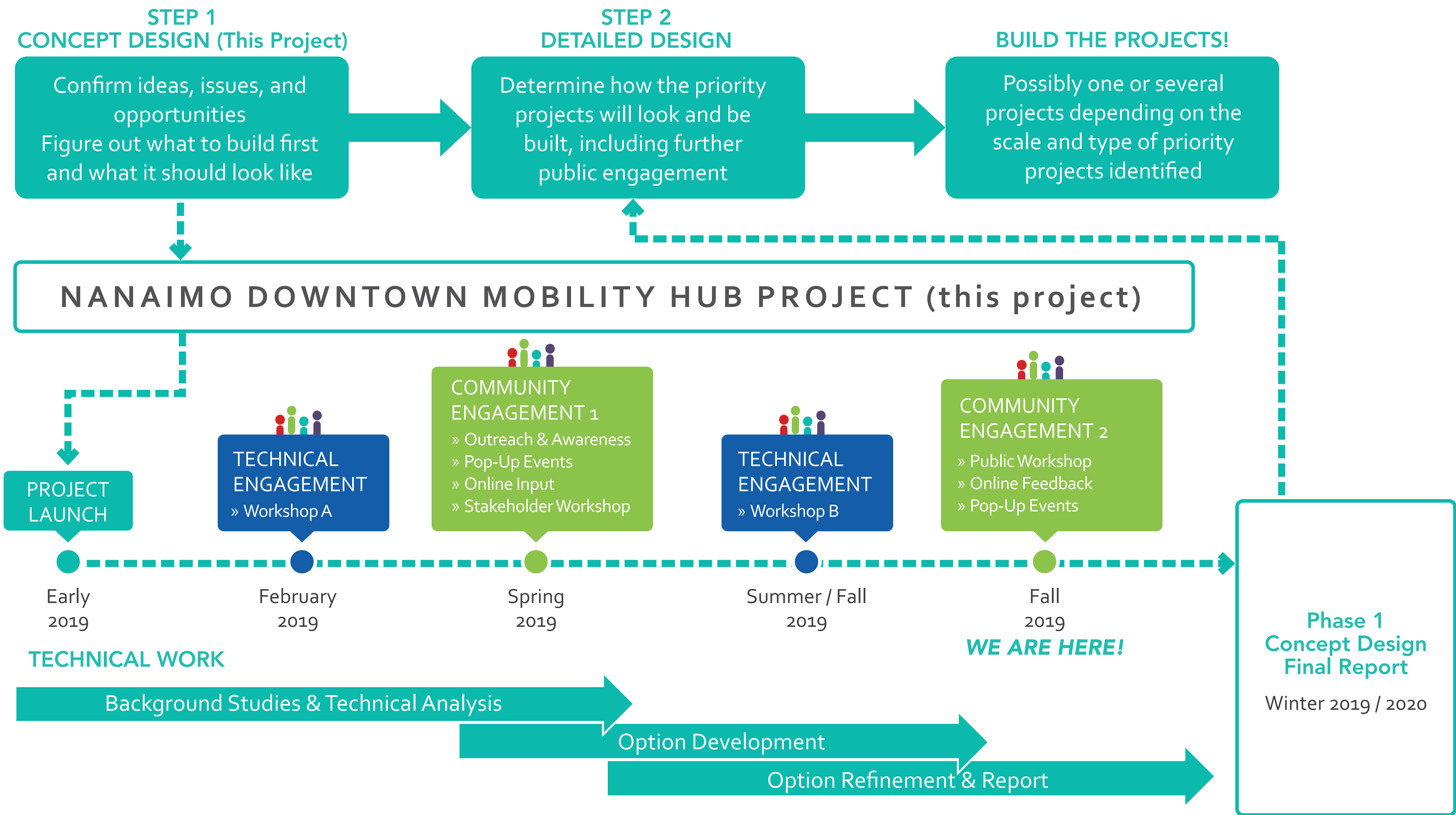
WHAT IS A MOBILITY HUB?

A mobility hub is a concentrated area of activity including employment, housing, recreation, and shopping interconnected with multimodal transportation options. Complete, compact communities focused around mobility hubs are more sustainable as they reduce reliance on personal vehicles.

PROJECT PROCESS

The Downtown Mobility Hub Project is a first step in advancing short-term projects towards construction. During the next steps, it is expected that each of the projects will continue to be developed at its own pace with further public engagement incorporated into those specific processes.

The diagram below summarizes how this project, the Nanaimo Downtown Mobility Hub Project, fits into the overall project development process.



WHAT WE'VE HEARD

During Phase 1, questions about five mobility topics – pedestrian network, bicycle network, transit, key intersections, and parking – were asked to gather community input and identify priorities. The following overview summarizes common themes. Learn more by reading the engagement summary at: nanaimo.ca/goto/downtownmobility



COMMON THEMES



VICTORIA / WALLACE / ALBERT INTERSECTION

CONSISTENTLY IDENTIFIED AS A TOP ISSUE LOCATION FOR DOWNTOWN MOBILITY



PEDESTRIAN-ONLY STREETS COULD WARRANT EXPLORATION

////////////////////
TERMINAL / NICOL AND FRONT STREET
ARE WIDE, VEHICLE-DOMINATED STREETS THAT FORM BARRIERS TO WALKABILITY

WALLACE, GORDON, FRONT & ALBERT



ARE CYCLE ROUTE PRIORITIES, ALONG WITH A FEW OTHER SUGGESTED IDEAS. SEPARATED ROUTES THAT ACCOMMODATE ALL AGES AND ABILITIES ARE GENERALLY PREFERRED



FRONT STREET

IS GENERALLY SUPPORTED AS A TRANSIT EXCHANGE, PROVIDED THAT SAFETY, AMENITIES, FUTURE DEVELOPMENT, AND CONNECTIONS ARE CAREFULLY PLANNED



FINDING PARKING IS RELATIVELY EASY

EXCEPT IN A FEW LOCATIONS LIKE THE OLD CITY QUARTER AND COMMERCIAL ST, AND DURING MAJOR EVENTS. BETTER SIGNS COULD DIRECT PEOPLE TO AVAILABLE PARKING

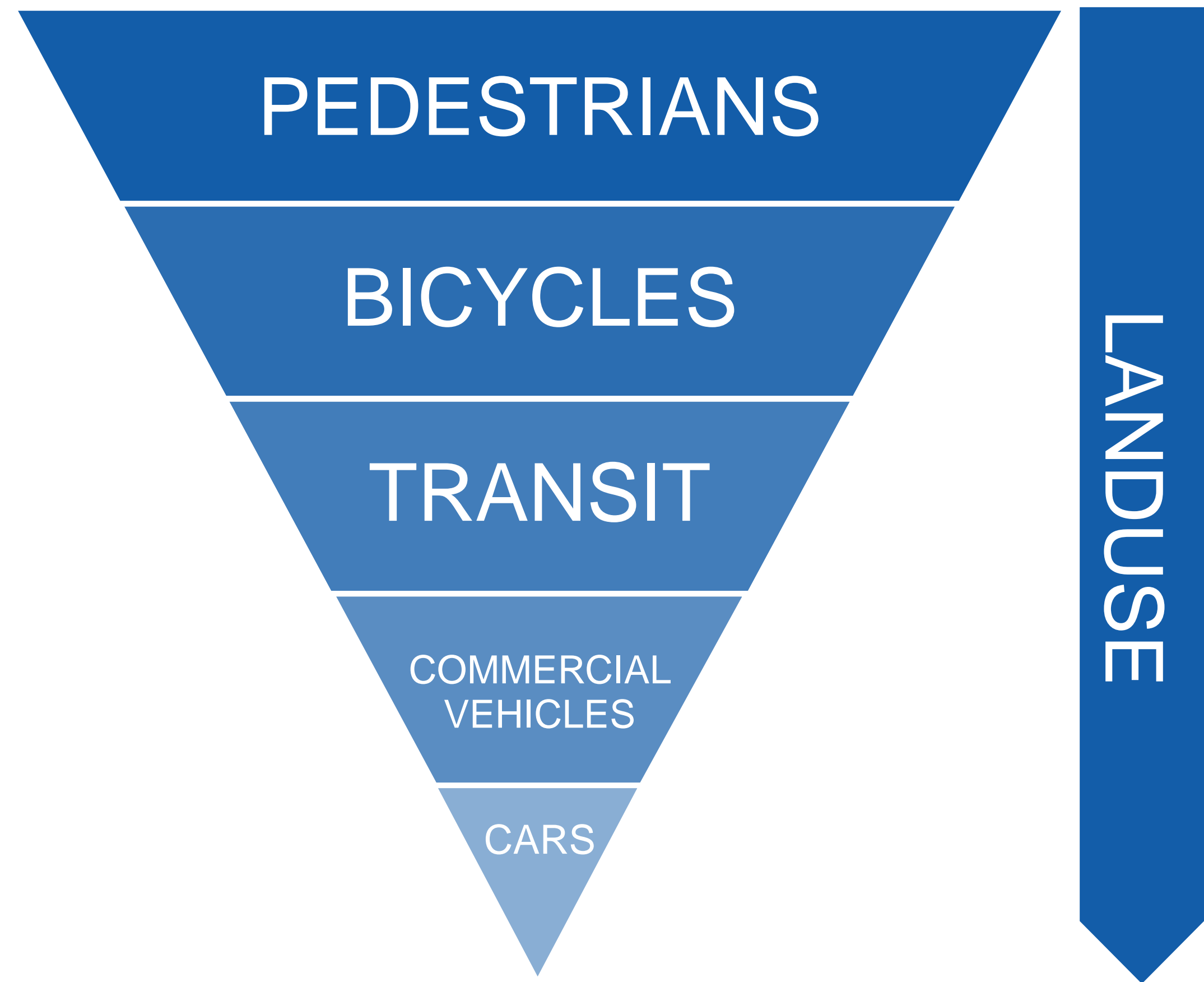
KEY CONSIDERATIONS FOR PROJECTS:

- 1 PEDESTRIAN ACCESSIBILITY & COMFORT IS A HIGH PRIORITY
- 2 KEY DESTINATIONS SHOULD BE LINKED BY HIGH-QUALITY WALKWAYS AND CYCLE ROUTES
- 3 AMENITIES AND BEAUTIFICATION WILL SUPPORT WALKING AND TRANSIT
- 4 SAFETY AND SECURITY SHOULD BE ENHANCED
- 5 WAYFINDING & SIGNAGE SHOULD BE IMPROVED

EMERGING PRIORITIES

HISTORY	GUIDING POLICY	MOVING FORWARD
<p>Like many other communities in North America, the City of Nanaimo became auto-dependent over the past century.</p> <p>As our focus shifted to the automobile as the primary source of transportation, resulting development patterns encouraged automobile use and created obstacles to walkable, bikeable, transit-oriented centres.</p>	<ul style="list-style-type: none">▪ The City's Official Community Plan planNanaimo supports a more sustainable, compact Nanaimo where people can work, shop, socialize and recreate in close proximity to where they live.▪ Nanaimo's Transportation Master Plan, created in 2014, includes targets to double our sustainable travel mode share for trips made by walking, cycling, and transit by 2041.▪ Downtown studies including the Nanaimo Downtown Plan, Nanaimo Downtown Urban Design Guidelines, Terminal Nicol Reimagined, and Port Drive Waterfront Master Plan have made recommendations for a more walkable, bikeable, and transit-friendly downtown core.	<ul style="list-style-type: none">▪ In early 2019, the City of Nanaimo initiated the Downtown Mobility Hub Project to advance key ideas that have emerged in previous studies.▪ The first phase focused on confirming priority issues and opportunities.▪ This second phase is developing and reviewing initial concepts for short-term priority improvements.▪ From here, select projects will be advanced through detailed design, including further public engagement, towards construction in the next 5 years.

NANAIMO TRANSPORTATION MASTER PLAN HIERARCHY OF MODES



The hierarchy of modes identified in Nanaimo's **Transportation Master Plan** proposes that the City consider the needs of pedestrians, cyclists, public transit, and goods and services movements before that of private automobiles.

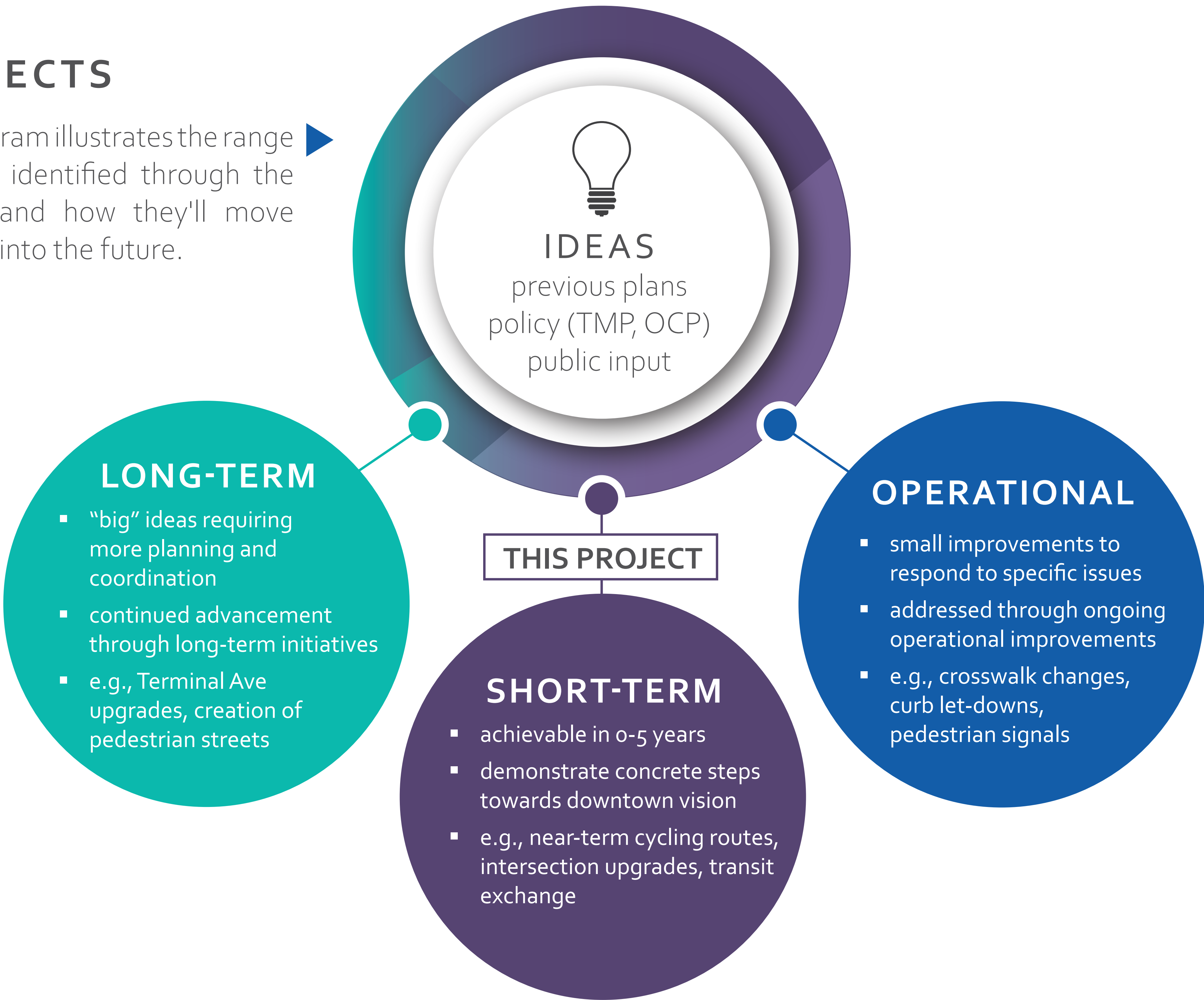
By considering needs of these priority modes, future transportation plans, programs and projects will provide better, safer, and more convenient solutions and encourage over time more people to walk, cycle, and ride the bus.



IDENTIFICATION OF SHORT-TERM PROJECTS

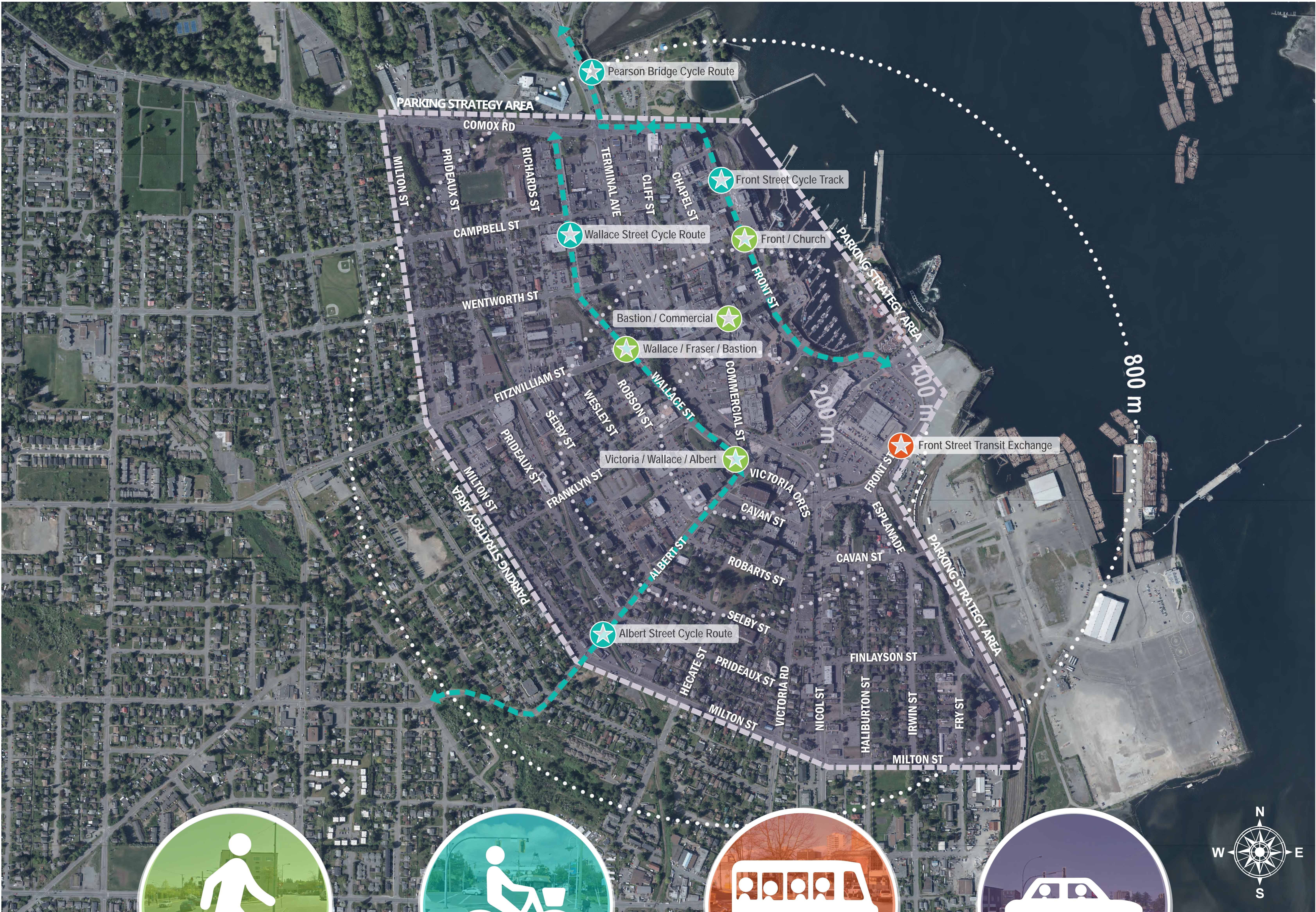
- Public engagement and previous plans have identified many ideas for improving transportation in the downtown. The concepts being brought forward in the Downtown Mobility Hub Project are short-term priorities for the following reasons:
- Identified in previous planning initiatives
 - General public support
 - Provide visible change to the downtown, acting as catalyst projects to support sustained improvements
 - Anticipated to be achieved in a 5-year time frame, meaning they are free of complex jurisdictional or private property challenges, they support initiatives already underway, and/or they do not require significant physical changes
 - Align with long-term planning, ensuring that investments made now avoid "redoing" projects at a later time
 - Support larger-scale initiatives that will continue to move forward at the same time

The diagram illustrates the range of ideas identified through the project and how they'll move forward into the future.



OVERVIEW OF CONCEPTS

The potential projects identified below represent achievable priority projects that support the policy and directions set in guiding documents. Learn more about each project by finding the relevant display.



SAFER INTERSECTIONS

Updates to key intersections to improve pedestrian conditions and enhance safety for all modes

- Victoria / Wallace / Albert
- Bastion / Commercial
- Front / Church
- Wallace / Fraser / Bastion



CYCLING ROUTES

Short-term projects towards the vision of a downtown cycling network for all ages and abilities

- Front Street Cycle Track
- Albert Street Cycle Route
- Wallace Street Cycle Route
- Pearson Bridge Cycle Route



TRANSIT EXCHANGE

A review of the proposed transit exchange location and initial discussion on design and amenities

- Summary of the Final Location Selection
- Emerging Design Criteria



PARKING STRATEGY

A comprehensive review of parking in the downtown today and emerging directions for the future

- Overview of Existing Conditions
- Occupancy Study Findings
- Emerging Key Directions



SAFER INTERSECTIONS OVERVIEW

Intersections are where multiple transportation modes come together are where most conflicts occur on the roadway.

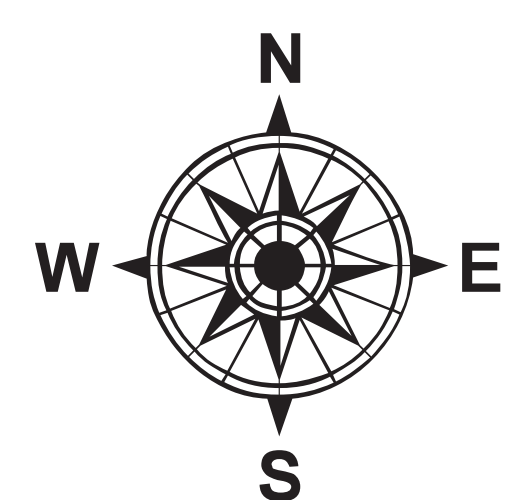
Traditional policies have primarily focused on reducing motor vehicle delay at intersections. The Transportation Master Plan requires future intersections to address the safety, comfort, and convenience of all modes, prioritizing pedestrians.



PUBLIC PRIORITIES

-  **SAFETY**
Feeling safe is important to downtown walkability and improving intersections for pedestrians is an important step
-  **WAYFINDING / SIGNAGE**
More pedestrian-orientated wayfinding would enhance the pedestrian experience
-  **WALKABLE INTERSECTIONS**
The current downtown network is often perceived as unaccommodating and inconvenient for pedestrians. Intersections that prioritize walkability are a priority

FOUR PROPOSED SHORT-TERM INTERSECTION IMPROVEMENTS



1 VICTORIA ST / ALBERT ST / WALLACE ST



2 FRONT ST / CHURCH ST



4 BASTION ST / COMMERCIAL ST



3 BASTION ST / WALLACE ST / FRASER ST





SAFER INTERSECTIONS

1 VICTORIA / WALLACE / ALBERT

EXISTING



WHY THIS INTERSECTION?

The 3-way stop was historically created to reduce potential for traffic backing up on Commercial St to Terminal Ave. Current analysis suggests traffic volumes may allow for an improved operation.

- Consistently identified as one of the most confusing intersections in the downtown
- Skewed alignment
- 3-way stop procedure is poorly understood
- No cycling accommodation
- High pedestrian activity area – a pedestrian count on April 4, 2019 showed an average of 178 pedestrians per hour
- Pedestrian challenges including long crossings, poor sight lines, and a missing crosswalk on the Commercial leg
- Identified in the Transportation Master Plan as a priority to improve safety and operations for pedestrians, cyclists, and vehicles
- Identified in Terminal Nicol Re-imagined as a priority
- High public support

PROPOSED APPROACH

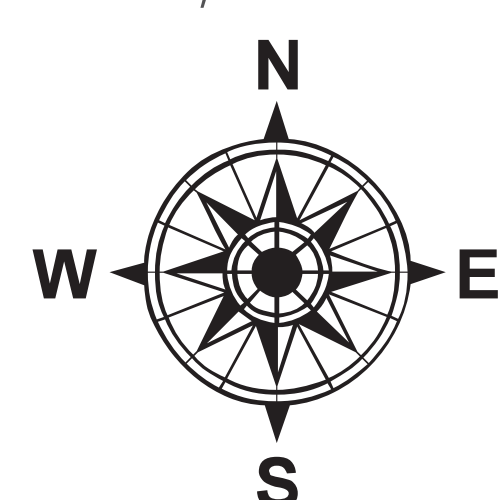
START WITH A NEAR-TERM CONCEPT, LOOK TOWARDS A LONG-TERM VISION

This intersection falls within a larger planning area that includes the Terminal / Commercial intersection and surrounding land uses. The vision for this area is a vibrant, pedestrian-friendly hub – but that evolution is complex and timelines are not yet known.

For this reason, a near-term, low-cost concept is proposed for the Victoria / Wallace / Albert intersection to address pressing issues around safety and operations for pedestrians, cyclists, and motorists, while allowing flexibility for potentially area-wide changes in the future.

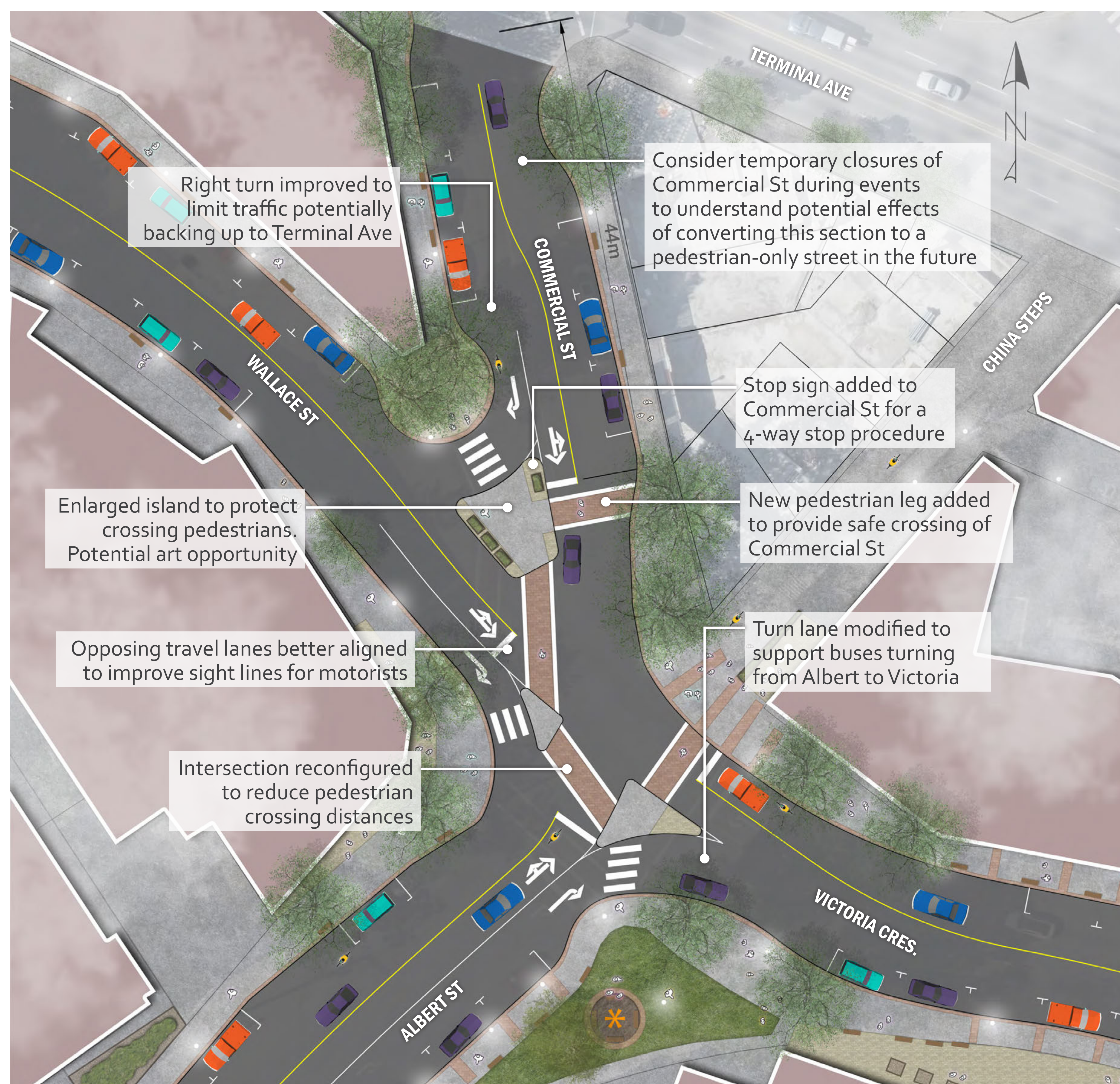
PROPOSED PHASING

- Change to four-way stop procedure
- Monitor queuing to confirm traffic does not back up to Terminal Avenue
- Monitor large truck operations as concept could limit truck sizes using the intersection
- Consider temporary closures of Commercial St between Terminal Ave and Wallace St (e.g., for community events) to understand potential effects of a pedestrian-only street
- Based on feedback, monitoring, and long-term planning, continue transition of the larger area towards a visionary future, continue to engage the public at that time



PROPOSED NEAR-TERM CONCEPT

Note: This concept is shown for information and discussion only and design will be refined during future steps



YOUR THOUGHTS

Do you have a comment, question, or concern about this initial concept? Post it here. Feedback will be used to evaluate and refine the approach before it is advanced.





SAFER INTERSECTIONS

2 FRONT / CHURCH

EXISTING



WHY THIS INTERSECTION?

Historically a traffic circle formed the intersection of Front and Church Streets. When the intersection was signalized, the diagonal configuration was maintained as a channelized right turn lane from Front onto Church.

- The channelized right turn lane is not needed for traffic flow, takes up significant space, and encourages faster driving speeds
- Pedestrian circulation on the island created by the channelized turn lane is unclear and has accessibility issues
- There is opportunity to reduce the pedestrian crossing distances over Front Street
- There is no cycling accommodation
- The area has high pedestrian activity, linking the downtown and the waterfront
- Removal of the channelized turn lane provides opportunity to expand Dallas Square Park
- Aligns with proposed Front Street updates (refer to Cycling Routes information)

PROPOSED APPROACH

REDUCE SPACE ALLOCATED TO VEHICLES AND INCREASE PUBLIC OPEN SPACE

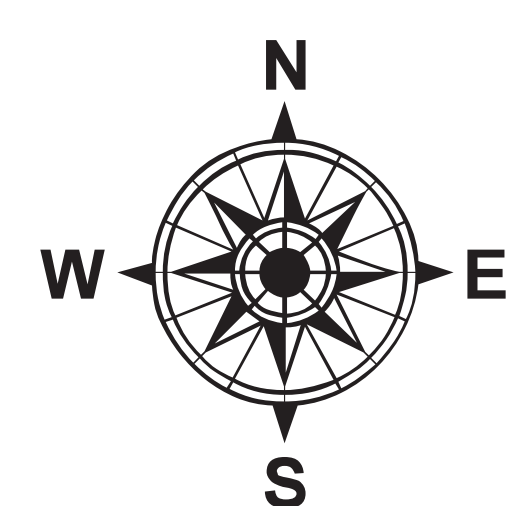
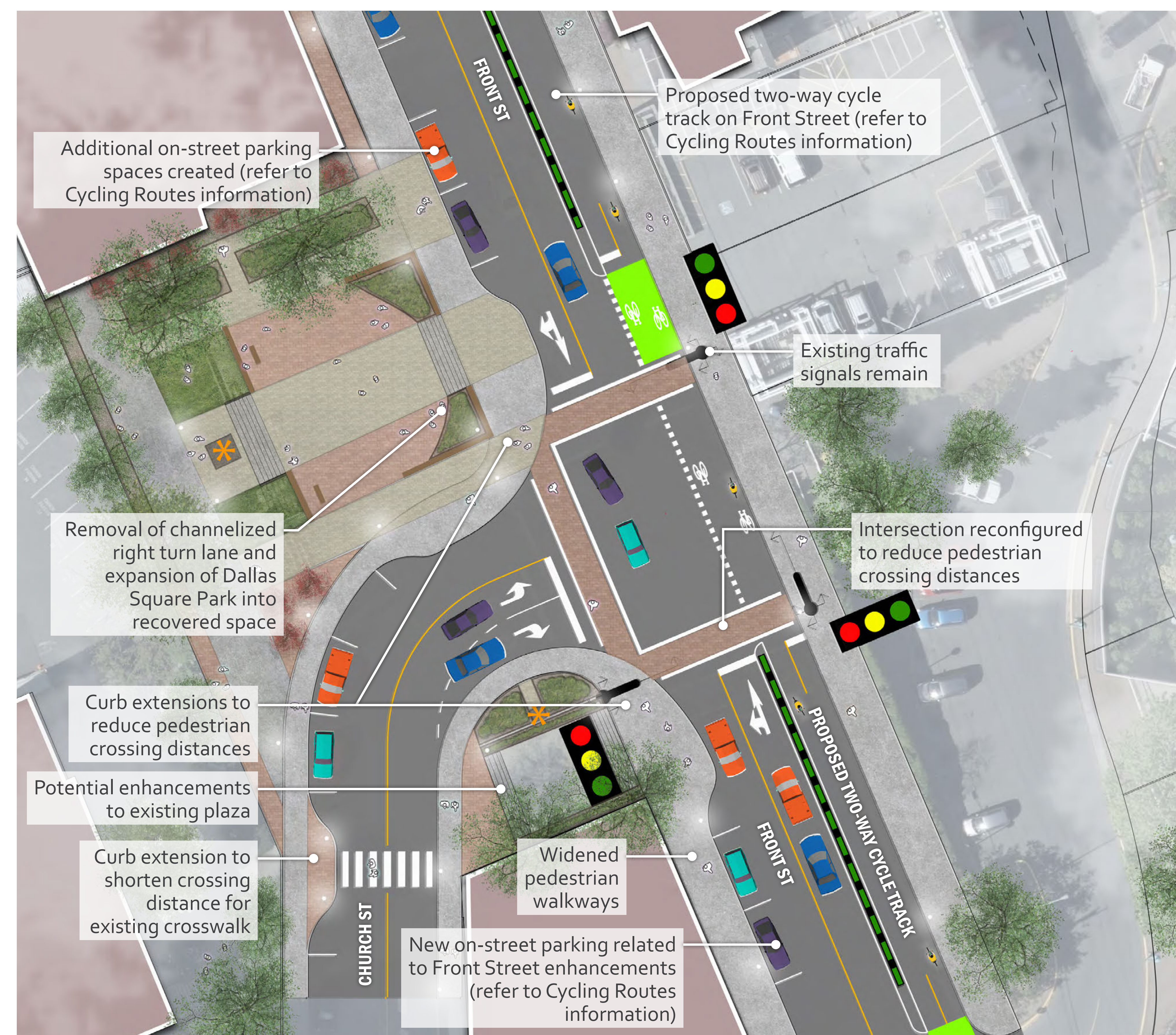
- Remove the channelized right turn lane
- Expand Dallas Square Park into the recovered open space, creating opportunities for an enhanced plaza with elements like outdoor seating, public art, additional trees and plantings, and expanded celebration space near the Cenotaph
- Enhance the intersection to include curb extensions at Front and Church Streets that minimize pedestrian crossings distances

PROPOSED PHASING

1. Timing of these improvements might be linked to the implementation of proposed Front St bicycle lanes (refer to Cycling Routes information)

PROPOSED INITIAL CONCEPT

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YOUR THOUGHTS

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SAFER INTERSECTIONS

3 BASTION / WALLACE / FRASER

EXISTING



WHY THIS INTERSECTION?

A 5-way street intersection where Wallace St, Bastion St, and Fraser St meet has been identified as confusing and inefficient.

- 5-legged skewed intersection with one-way connection at Fraser Street is confusing
- A number of property driveways are close to the intersection, increasing conflicts
- High pedestrian activity area including the primary link between downtown and the Old City Quarter
- Intersection has lengthy waits between pedestrian crossings and long crossing distances due to additional signal phases
- There is minimal cycling accommodation
- Public input indicated a desire for accessibility improvements

PROPOSED APPROACH

STREAMLINE TRAFFIC MOVEMENTS TO IMPROVE PEDESTRIAN EXPERIENCE AND ADD OPEN SPACE

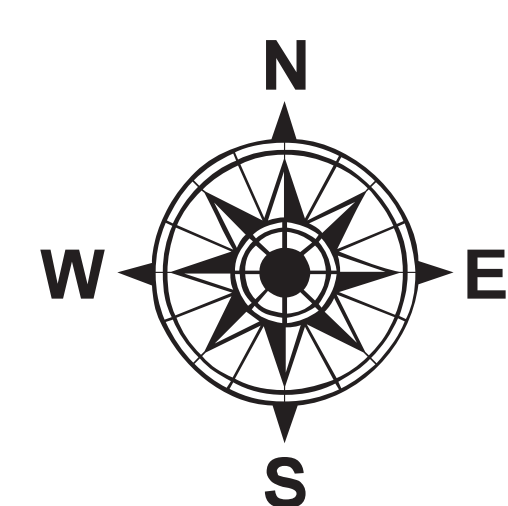
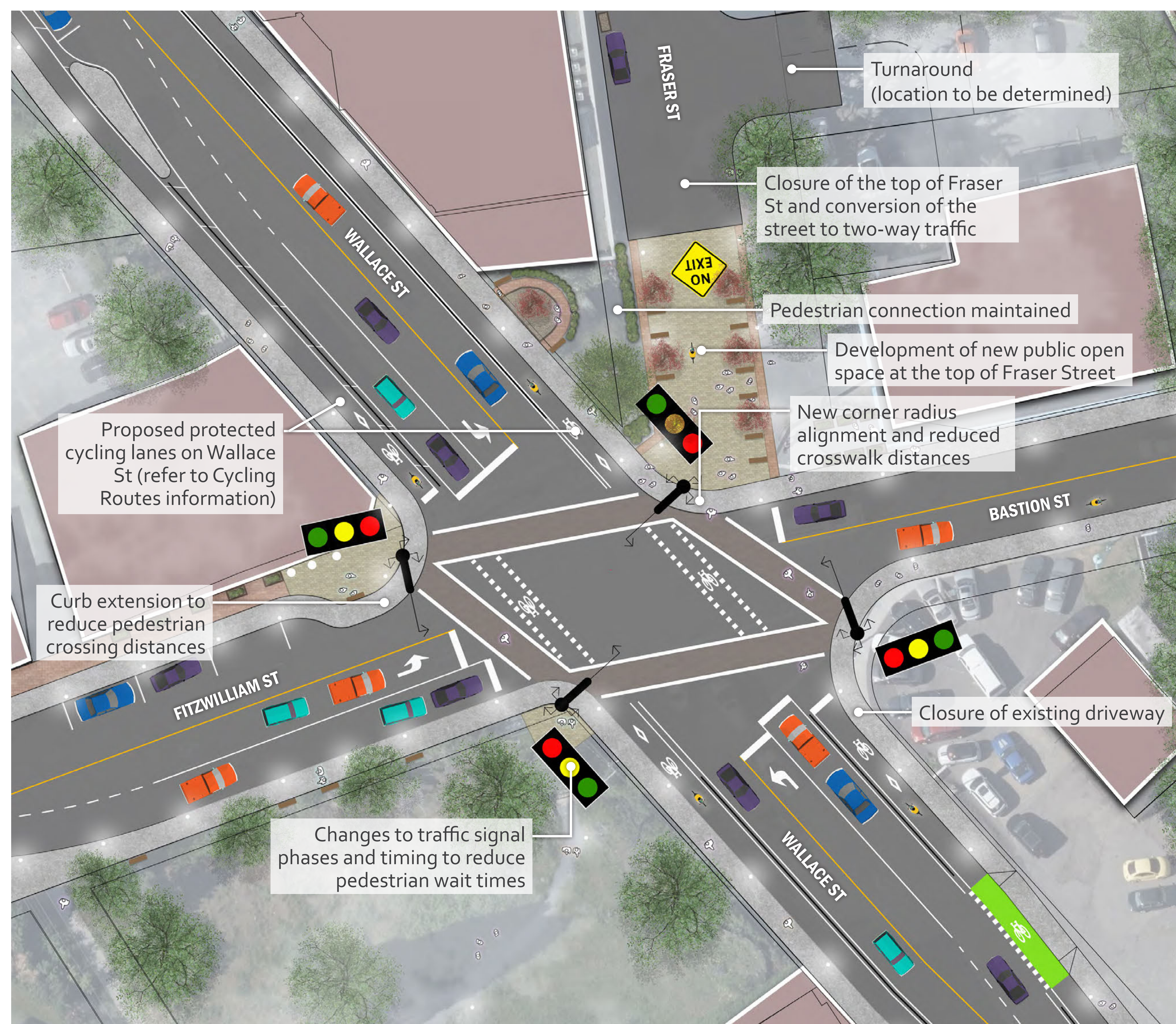
- Pursue closure of the Fraser St leg of the intersection to improve pedestrian crossings and intersection operation
- Convert Fraser St to a two-way with a turnaround at the top of the street. Emergency service access would need to be addressed
- Update the existing traffic signals to only two phases (reducing pedestrian wait times)
- Develop new public open space in the closed portion of Fraser St to provide additional garden space and amenities while maintaining pedestrian access
- Enhance the intersection to include curb extensions where possible to reduce pedestrian crossing distances

PROPOSED PHASING

- Consult emergency services
- Timing of these improvements might be linked to the implementation of proposed Wallace St bicycle lanes (refer to Cycling Routes information)

PROPOSED INITIAL CONCEPT

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YOUR THOUGHTS

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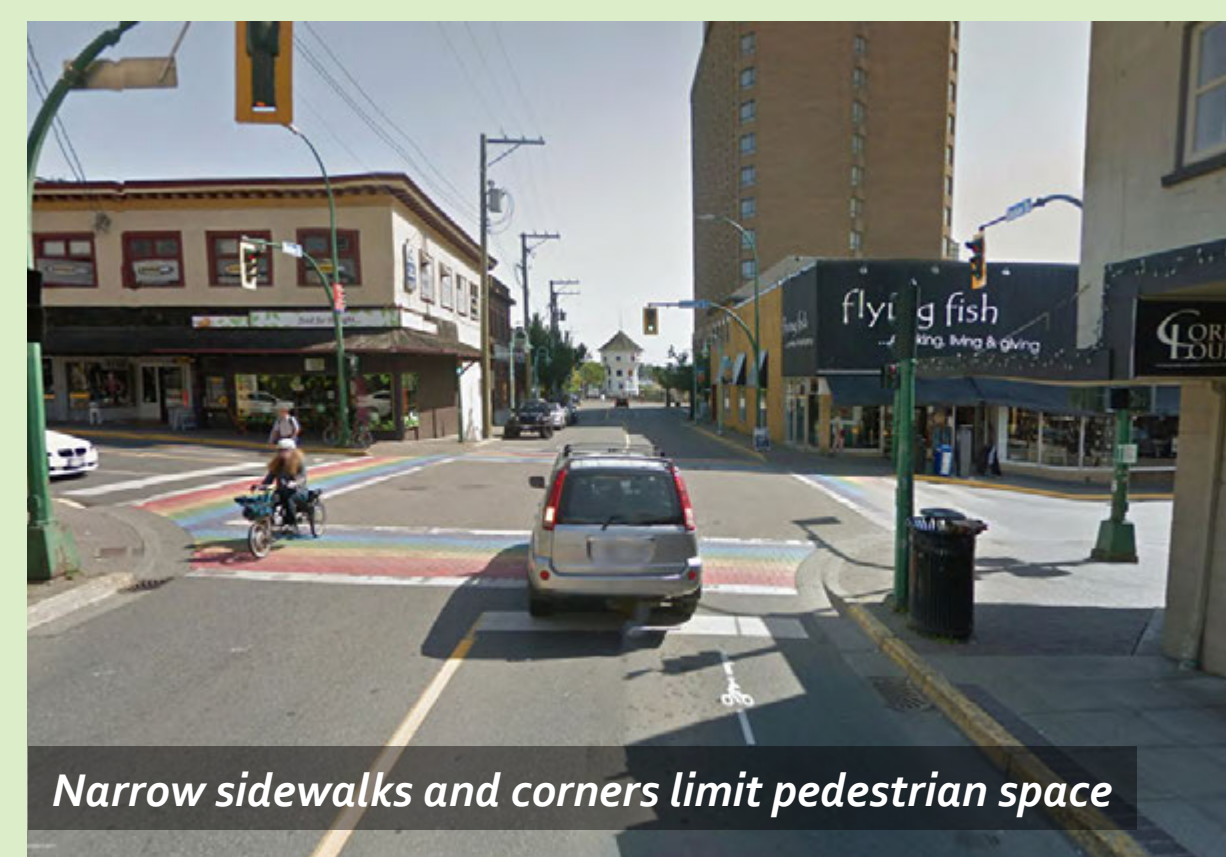
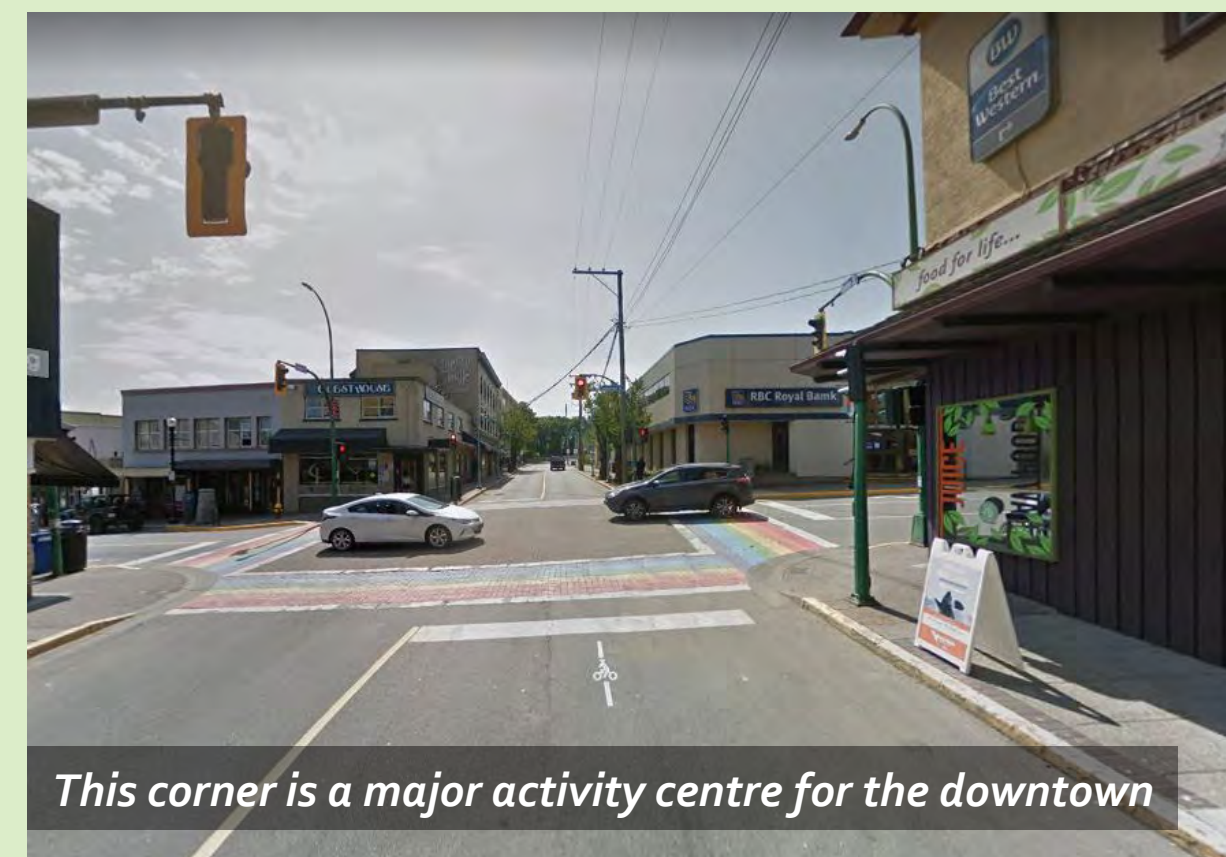
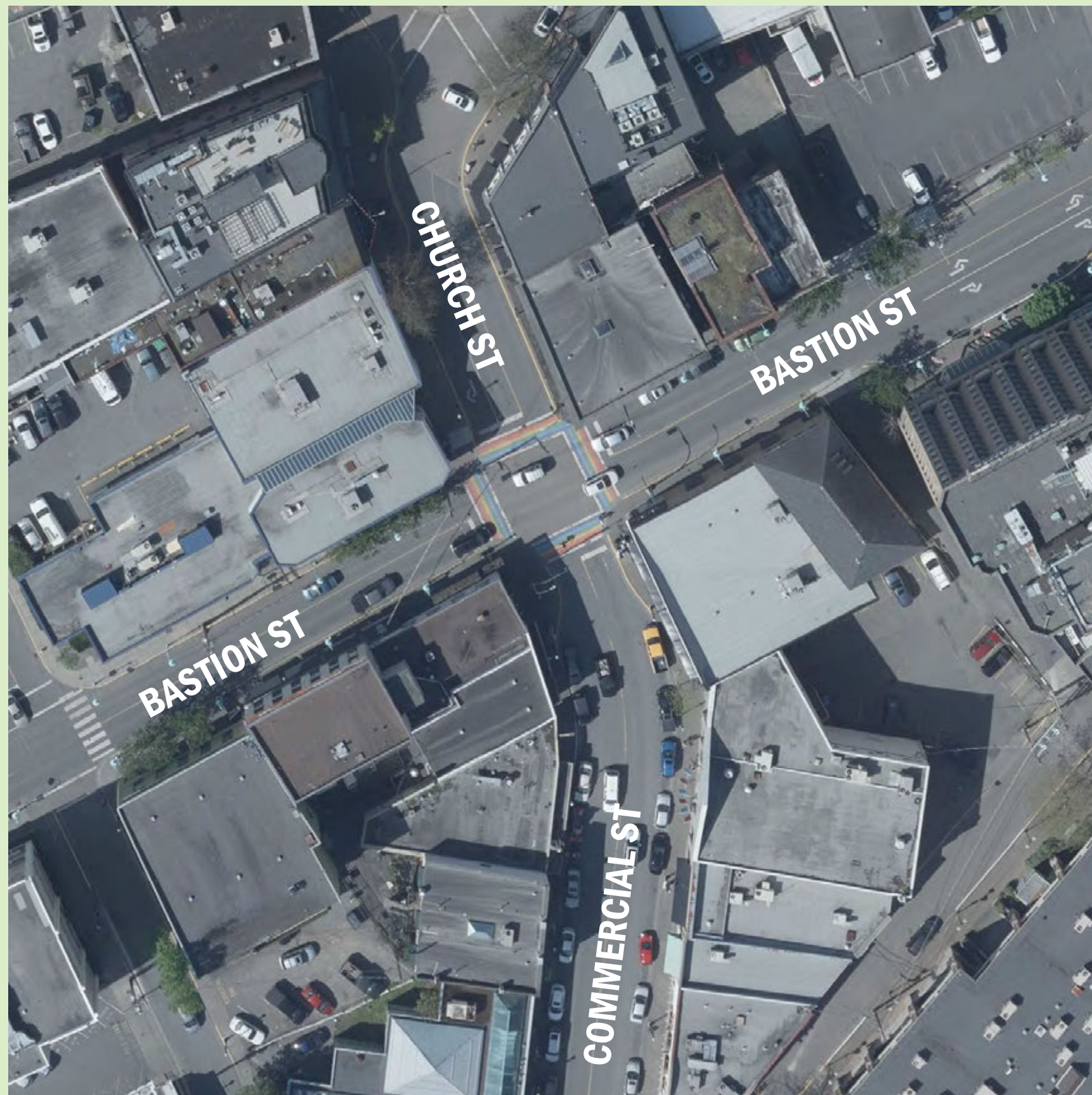


SAFER INTERSECTIONS

4

BASTION / COMMERCIAL

EXISTING



WHY THIS INTERSECTION?

The existing traffic signals are close to the end of their lifespan and will need to be replaced in the near future. This provides an opportunity to consider changes that could benefit downtown mobility.

- While the existing traffic controls appear to operate acceptably, they don't prioritize pedestrians
- Existing sidewalks are narrow with obstructions from traffic signals, utilities, and street furniture
- This is one of the busiest pedestrian areas in Nanaimo – a 7-hour pedestrian count on April 12, 2018 recorded 1,715 pedestrian movements
- There is minimal cycling accommodation

OPTIONS CONSIDERED

Option	Strengths	Weaknesses
Option 1: Four-way Stop RECOMMENDED	<ul style="list-style-type: none">Pedestrians have right-of-wayNo significant vehicle traffic delays anticipatedLow cost and easy to implement	<ul style="list-style-type: none">Potential for minor vehicle delays when large numbers of pedestrians are crossingLess convenient for cyclists
Option 2: Two-way Stop on Commercial (Free Flow on Bastion)	<ul style="list-style-type: none">Less delay for vehicles on Bastion StPedestrians have right-of-way when crossing Commercial StLow cost and easy to implement	<ul style="list-style-type: none">More delay for vehicles on Commercial StPotentially higher vehicle speeds on Bastion St increasing risk for more severe collisionsLess convenient for pedestrians to cross Bastion St
Option 3: Signalized with Pedestrian Scramble	<ul style="list-style-type: none">Avoids conflicting pedestrian and vehicle movements, increasing safetyAllows pedestrians to cross diagonally	<ul style="list-style-type: none">Longer delays for both pedestrians and vehicles to allow all signal cyclesHigher cost to implement
Option 4: Status Quo (upgrade existing signals only)	<ul style="list-style-type: none">Maintains existing operation which appears to operate reasonably well	<ul style="list-style-type: none">Higher cost to implementDoes not improve pedestrian circulation

PROPOSED PHASING

- Implement Option 1: Four-Way Stop for a trial period prior to removing the existing signals
- Monitor pedestrian and vehicle behaviours, as well as public feedback, about the change
- If the trial period is favourable, proceed with full updates including removal of the traffic signals and street enhancements including widened corners and sidewalks where possible

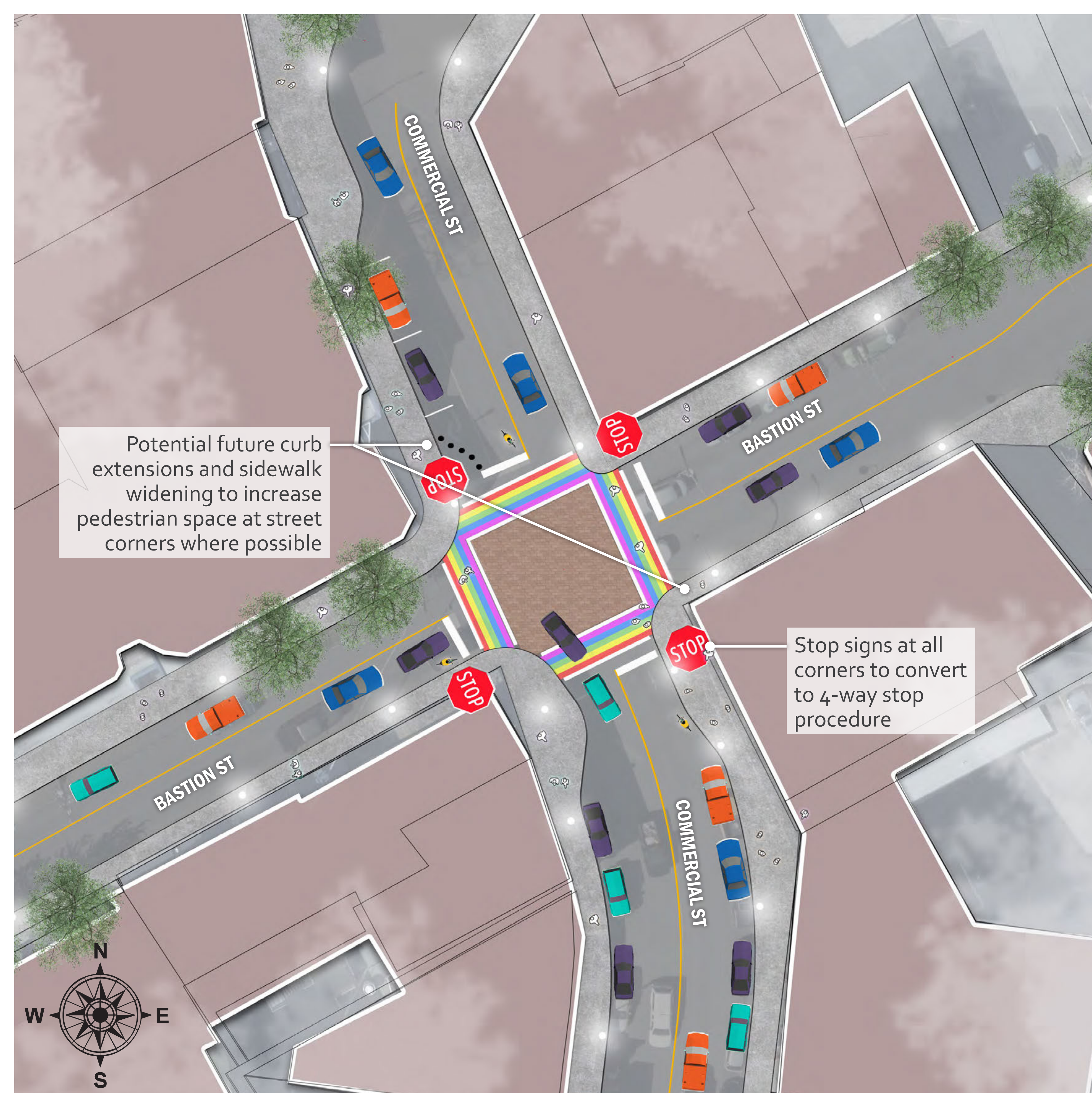
YOUR THOUGHTS

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PROPOSED INITIAL CONCEPT

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CYCLING ROUTES OVERVIEW

Downtown is a destination and hub where several cycling routes come together, but is currently limited in routes that support cyclists of all ages and abilities.

The Downtown Mobility Hub Project seeks to add a network of short-term routes to be constructed within the next five years. These additions will help connect cyclists around the downtown core more easily and in a safer manner.



PUBLIC PRIORITIES



SAFETY

Some people feel that they are not "good enough cyclists" to navigate downtown



WAYFINDING / SIGNAGE

Improved route signage could enhance the experience and decrease conflicts



CONNECTIVITY

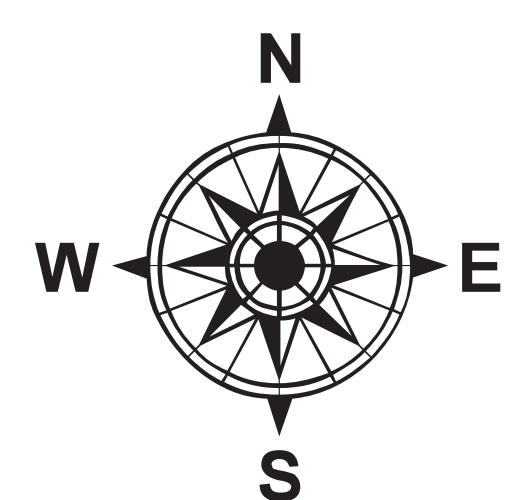
Routes need to connect into the existing or planned future network



SECURE STORAGE

Secure bike lock-up and end-of-trip facilities will help support a successful network

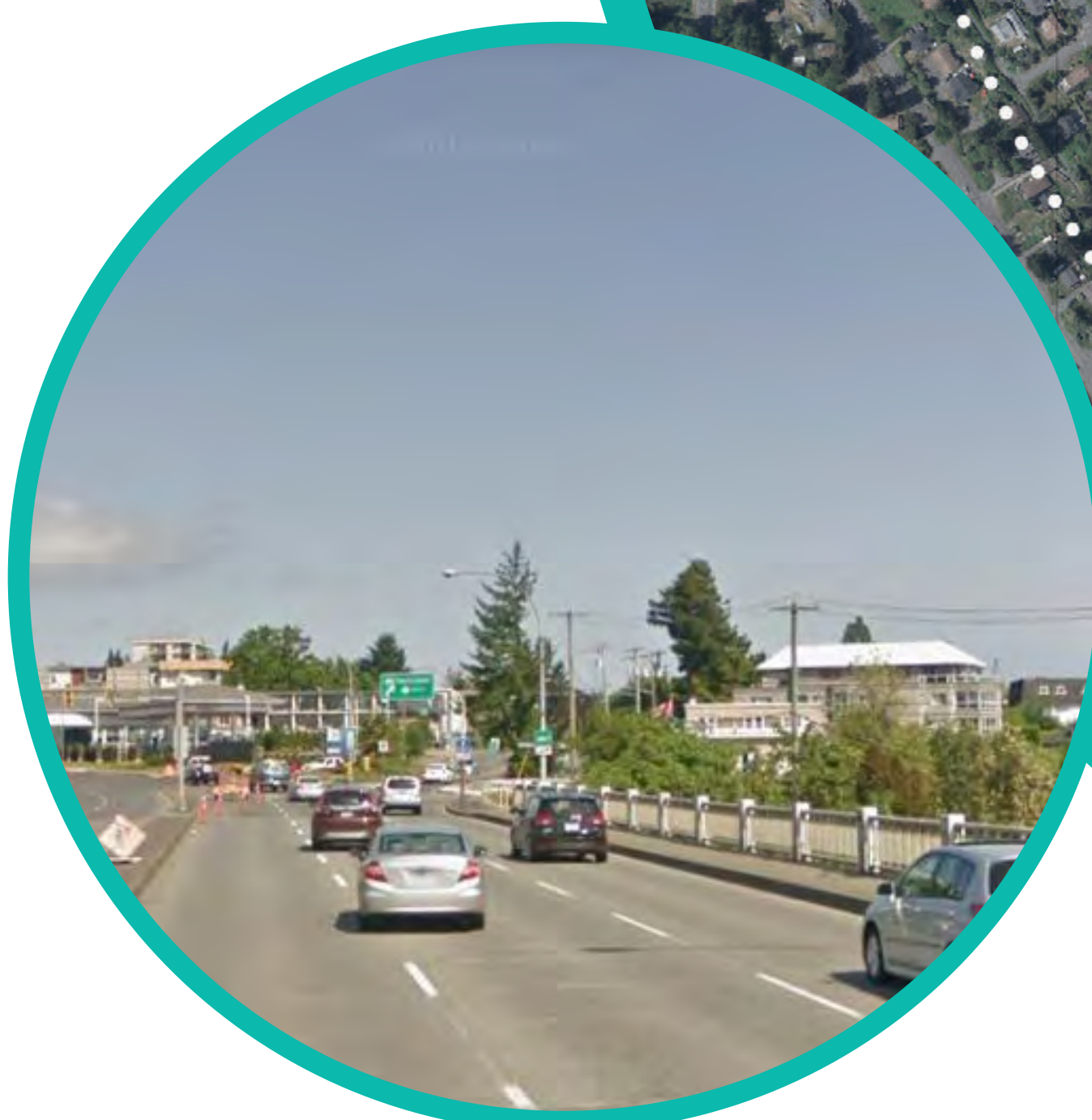
FOUR PROPOSED SHORT-TERM CYCLING CONNECTIONS



1 FRONT STREET CYCLETRACK



2 WALLACE STREET CYCLE ROUTE



4 PEARSON BRIDGE CYCLE ROUTE

3 ALBERT STREET CYCLE ROUTE





CYCLING ROUTES

1 FRONT STREET

OVERVIEW

- Identified in the Transportation Master Plan as a part of the downtown cycling loop
- Will connect in the future to the Front Street Transit Exchange and other amenities
- Opportunity to work within existing roadway to minimize need for pavement widening
- Traffic impact analysis shows reduction in Front St laning results in little to no change in operational performance for vehicles
- Fewer vehicle travel lanes reduces Front St crossing distances for pedestrians, improving the current "barrier" effect of a 4-lane Front St

PROPOSED CONCEPT

TWO-WAY PROTECTED CYCLE TRACK ON THE EAST (WATER) SIDE OF FRONT STREET

Why is this recommended?

- Safety:** There are fewer driveways and intersections on the east side of Front St and therefore fewer turning vehicles, reducing potential for conflicts between cyclists, motor vehicles, and pedestrians
- Connections:** Direct connections to waterfront, Maffeo Sutton Park, Pearson Bridge, the downtown, and the Transit Exchange
- Parking:** The smallest number of parking stalls are impacted as compared to either a cycle track on the west side or protected bicycle lanes on both sides. Allows for additional parking to be added near destinations like the Port Theatre and waterfront

KEY CONSIDERATIONS

As the concept design is advanced, the following elements will be studied further:

- Emergency service access
- Parking and loading impacts and offsets
- Continuous accessibility for pedestrians
- Relationship between bike lanes and transit stops
- Additional public and stakeholder consultation

PROPOSED INITIAL CONCEPT

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YOUR THOUGHTS

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LEGEND

SHORT-TERM BICYCLE NETWORK

Proposed	Existing	
		2-Way Protected Cycle Track
		Multi-use Pathway
		Multi-use Pathway (ped only)
		Improved Route (marked lanes)
		Signed Route (not improved)

OTHER

	Potential Parking Additions
	Parking Removals
	Marked Cycling Route Through Intersection / Driveway
	Transit Stop



CYCLING ROUTES

2 WALLACE STREET



OVERVIEW

- Identified in the Transportation Master Plan as a part of the downtown cycling loop
- Provides a relatively level (flat) connection to key destinations
- Opportunity to work within existing roadway to minimize need for pavement widening
- Primary north-south bicycle route west of Terminal Avenue

PROPOSED CONCEPT

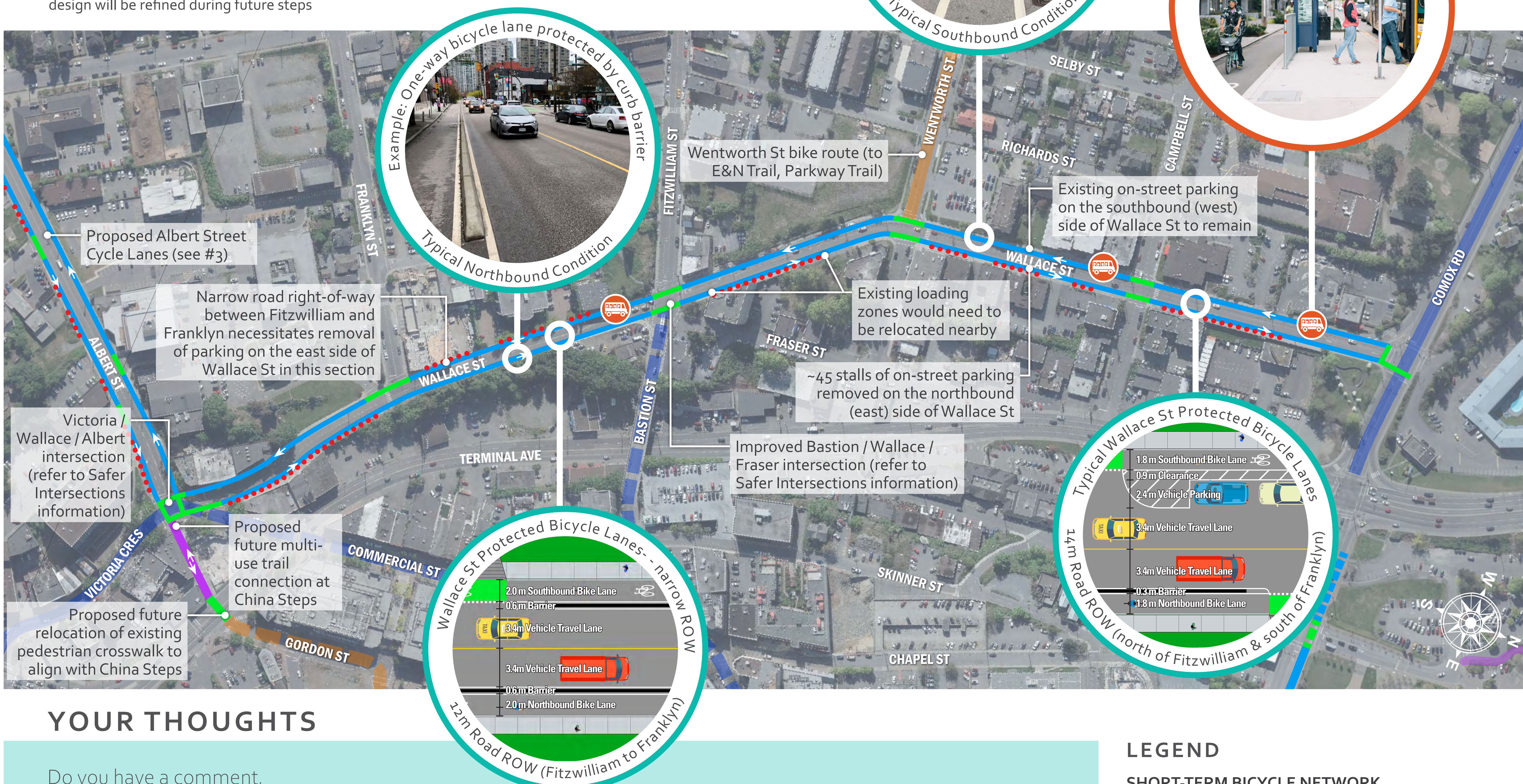
UNI-DIRECTIONAL (ONE-WAY) BICYCLE LANES ON BOTH SIDES OF WALLACE STREET

Why is this recommended?

- Safety:** Protected cycling lanes physically separate cyclists from motor vehicle traffic, providing a safer route than standard bicycle lanes
- Connections:** Cycling lanes on both sides support easy connectivity to other parts of the network, including the proposed Albert St cycling route (see #3)

PROPOSED INITIAL CONCEPT

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YOUR THOUGHTS

Do you have a comment, question, or concern about this initial concept? Post it here.

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LEGEND

SHORT-TERM BICYCLE NETWORK

Proposed	Existing	
		1-Way Protected Bicycle Lane
		Multi-use Pathway
		Improved Route (marked lanes)
		Signed Route (not improved)

OTHER

	Potential Parking Removals
	Marked Cycling Route Through Intersection / Driveway
	Transit Stop



CYCLING ROUTES

3 ALBERT STREET



OVERVIEW

- Identified in the Transportation Master Plan as a part of the VIU Bikeway east-west cycling link
- This connection provides the shortest and most direct route between the Downtown Mobility Hub and Vancouver Island University Mobility Hub, which is the City's largest cycling destination
- Opportunity to work within existing roadway to minimize need for pavement widening

PROPOSED CONCEPT

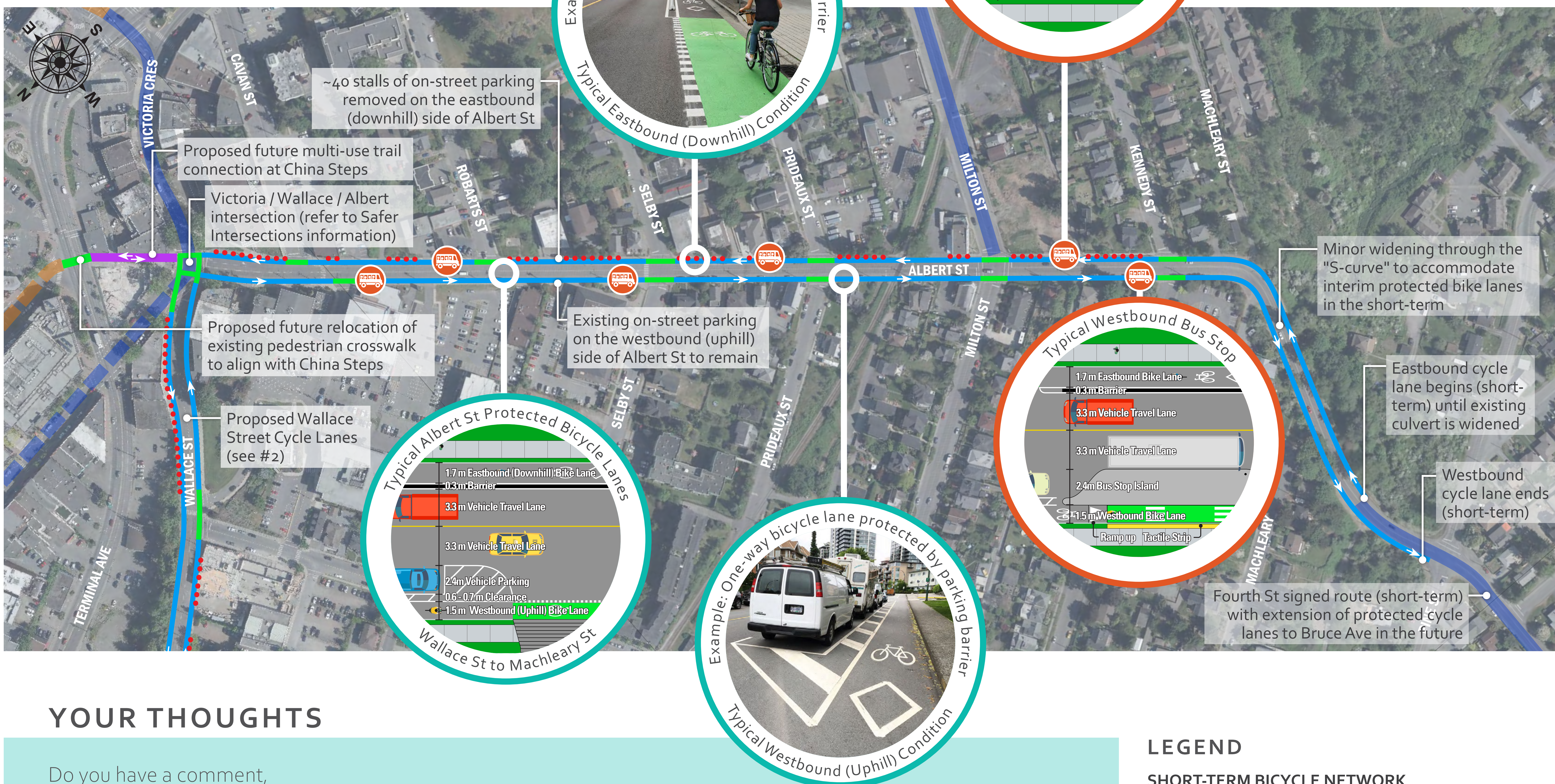
UNI-DIRECTIONAL (ONE-WAY) BICYCLE LANES ON BOTH SIDES OF ALBERT STREET

Why is this recommended?

- Safety:** Protected cycling lanes physically separate cyclists from motor vehicle traffic, providing a safer route than standard bicycle lanes
- Connections:** Cycling lanes on both sides support easy connectivity to other parts of the network, including the proposed Wallace St cycling route (see #2)

PROPOSED INITIAL CONCEPT

Note: This concept is shown for information and discussion only and design will be refined during future steps



YOUR THOUGHTS

Do you have a comment, question, or concern about this initial concept? Post it here.

Feedback will be used to evaluate and refine the concept before it is advanced.



LEGEND

SHORT-TERM BICYCLE NETWORK

Proposed	Existing	
		1-Way Protected Bicycle Lane
		Multi-use Pathway
		Improved Route (marked lanes)
		Signed Route (not improved)

OTHER

	Potential Parking Removals
	Marked Cycling Route Through Intersection / Driveway
	Transit Stop



CYCLING ROUTES

4 PEARSON BRIDGE



OVERVIEW

- Pearson Bridge spans the Millstone River marking the northern threshold to downtown
- The existing bridge has 2.1 m sidewalks on both sides, but no bicycle facilities and no railings to separate pedestrians from the roadway
- A connection would link the proposed Front Street Cycle Track (see #1) with a planned complete street on Stewart Ave
- The outer northbound traffic lane that diverts onto Stewart Ave is not required for traffic operations and could be considered for reallocation to active transportation
- The highway is jurisdiction of Ministry of Transportation and Infrastructure – approvals would be required

CONCEPT OPTIONS

OPTION 1: SHARED PATHWAY (EAST SIDE)

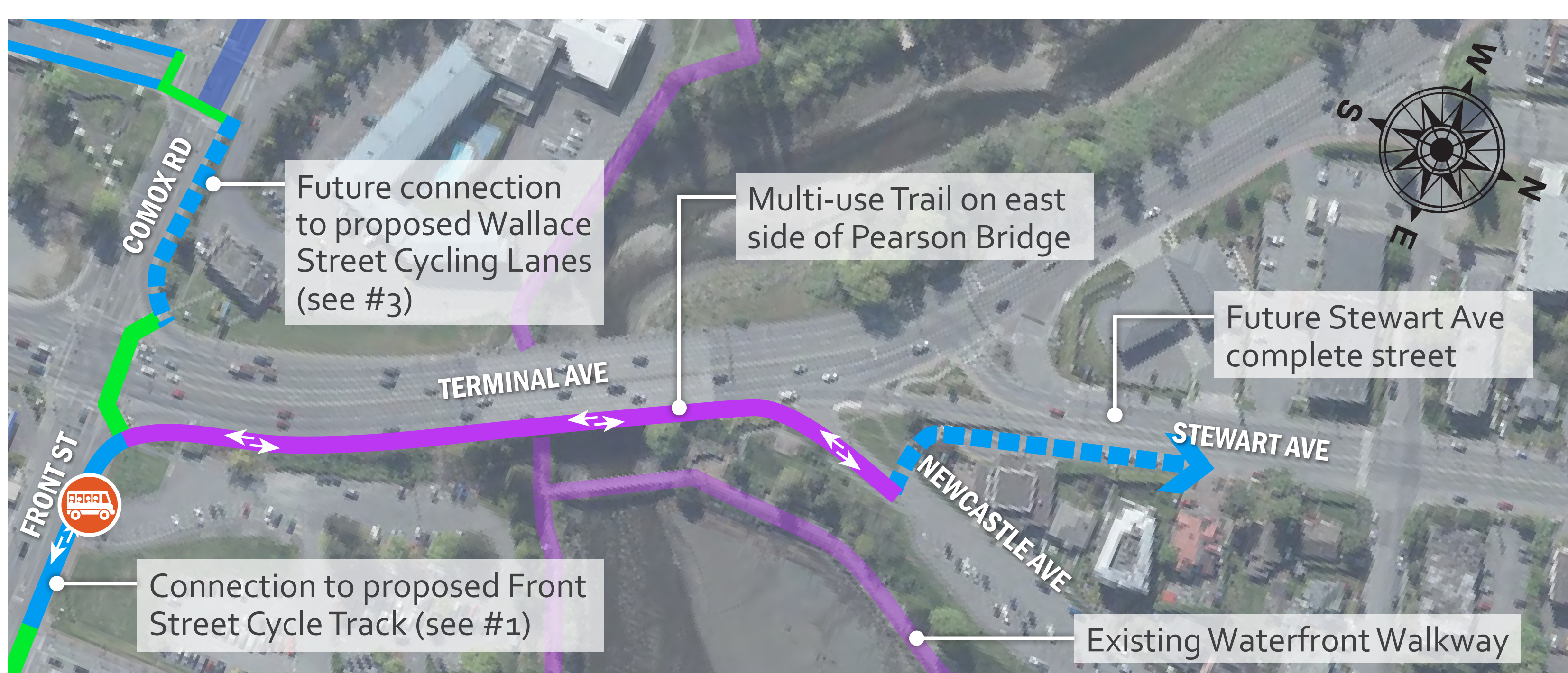
- Option 1 would widen the sidewalk on the east side of the bridge to a 6.5 m multi-use pathway shared by pedestrians and cyclists
- A barrier for protection from traffic would be added

OPTION 2: PROTECTED BICYCLE LANES (BOTH SIDES)

- Option 2 would accommodate cyclists by adding one-way protected bicycle lanes on both sides of the bridge
- Sidewalks would remain 2.1 m wide and pedestrians would be protected from traffic by the bicycle lanes

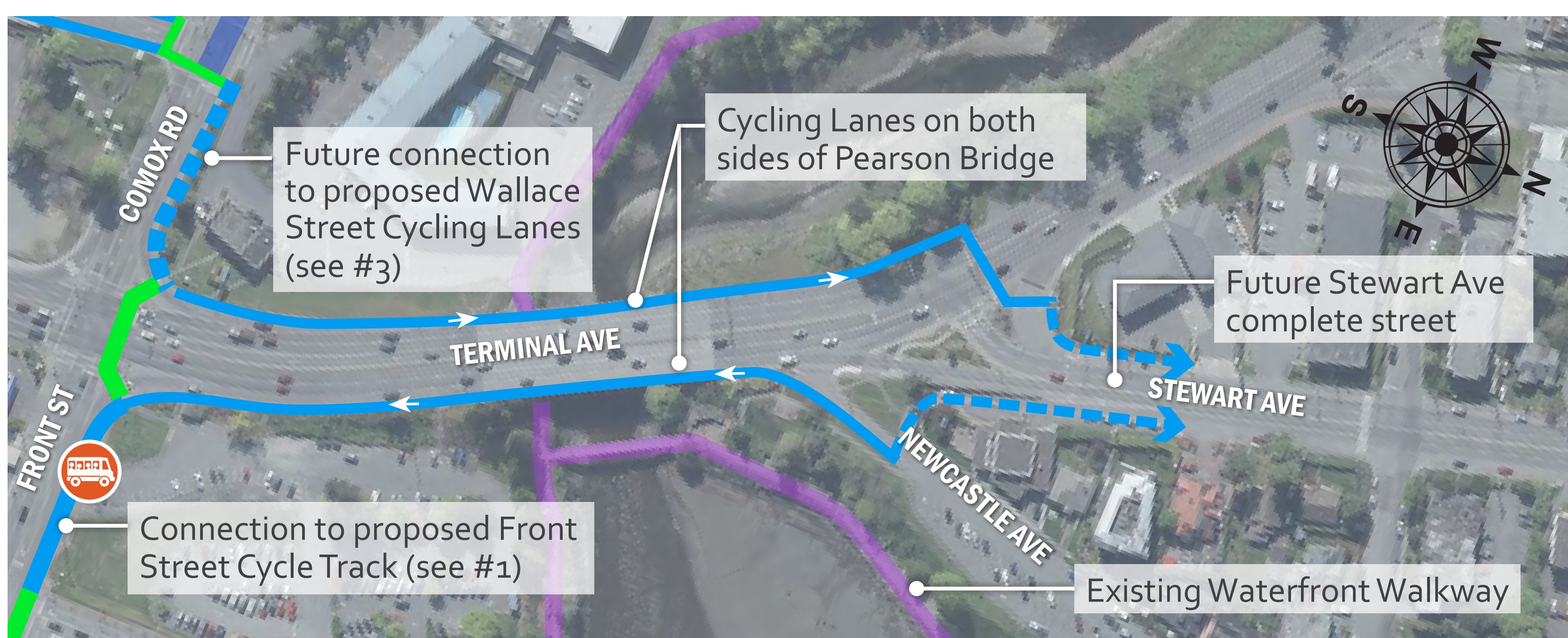
INITIAL CONCEPT OPTION 1: SHARED PATHWAY (EAST SIDE)

Note: This concept is shown for information and discussion only and design will be refined during future steps



INITIAL CONCEPT OPTION 2: PROTECTED BICYCLE LANES (BOTH SIDES)

Note: This concept is shown for information and discussion only and design will be refined during future steps



LEGEND

SHORT-TERM BICYCLE NETWORK

Proposed Existing

- 1-Way Protected Cycle Lane
- Multi-use Pathway
- Signed Route (not improved)

OTHER

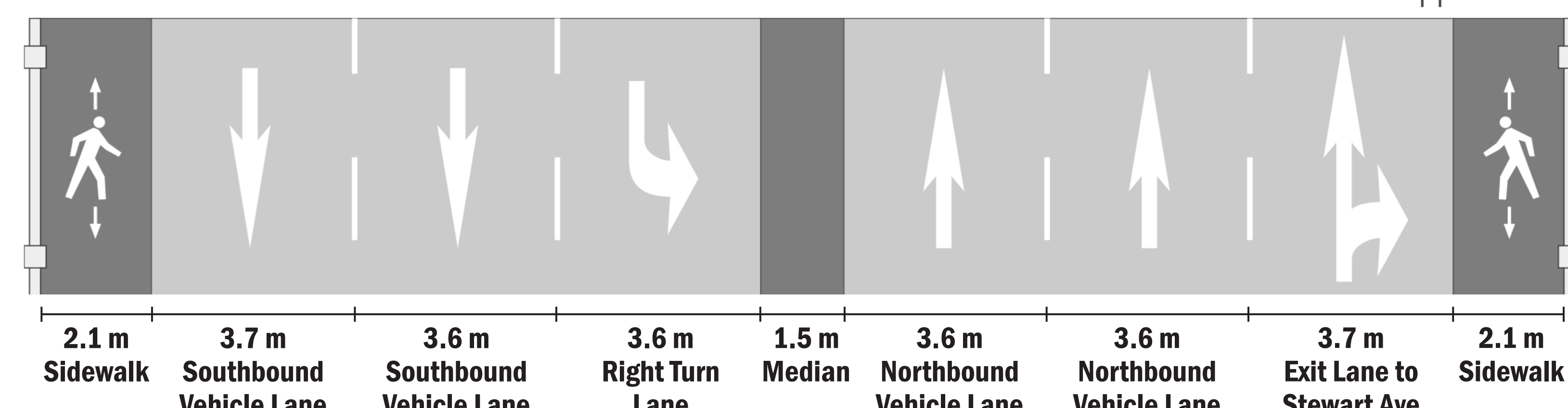
- Marked Cycling Route Through Intersection / Driveway
- Transit Stop

CROSS-SECTION COMPARISON

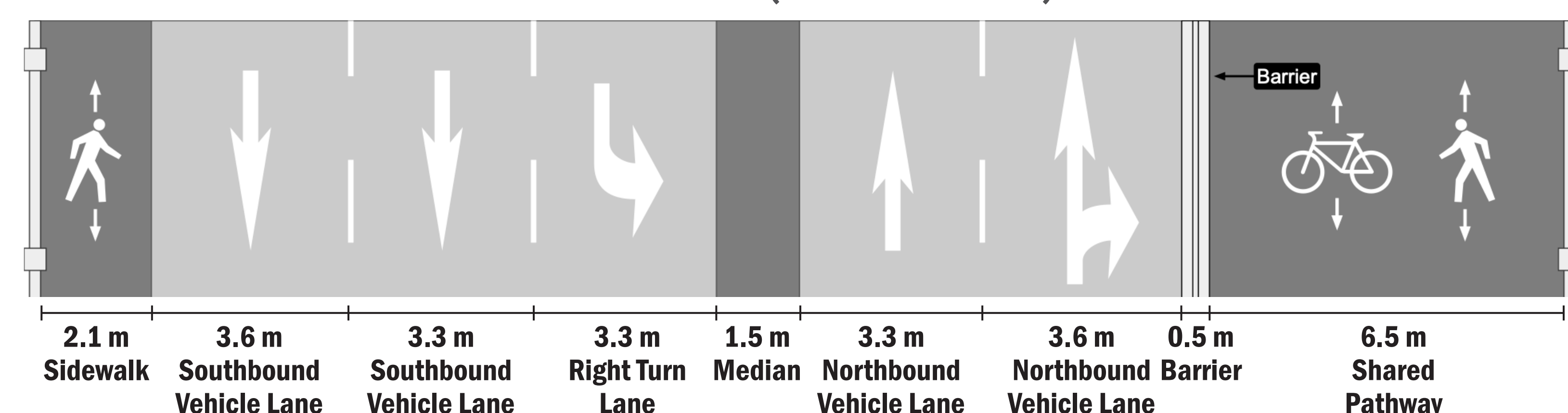
The following graphics summarize, in plan view, different laning options for Pearson Bridge.

EXISTING

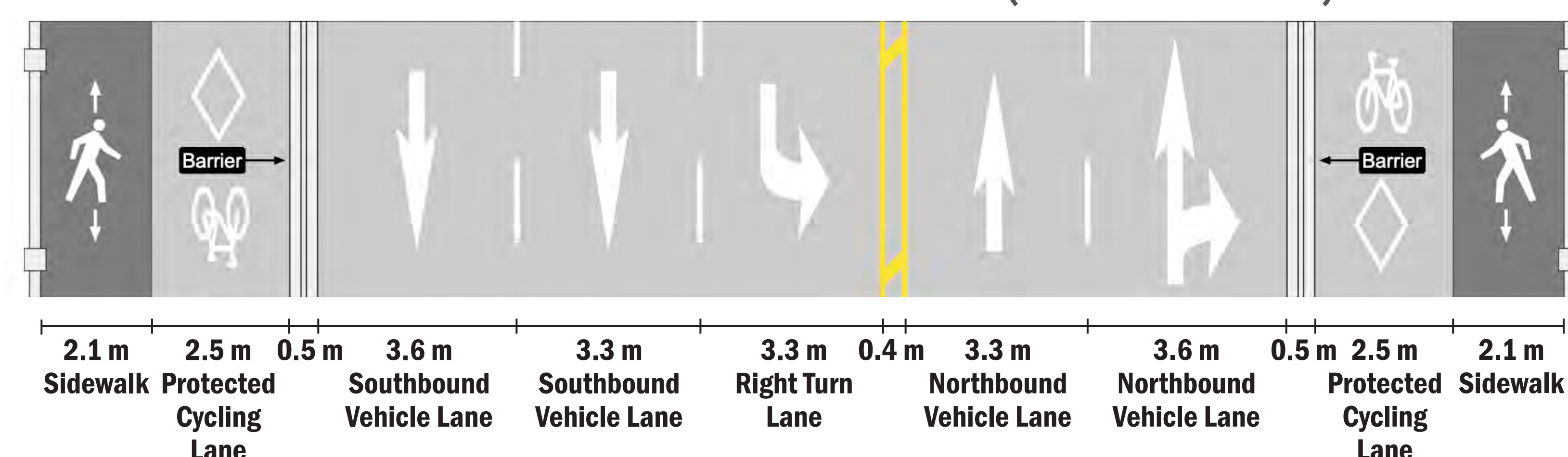
NOTE: Dimensions are approximate



OPTION 1: SHARED PATHWAY (EAST SIDE)



OPTION 2: PROTECTED BICYCLE LANES (BOTH SIDES)



YOUR THOUGHTS

Do you have a comment, question, or concern about these options? Post it here. Feedback will be used to evaluate and refine the concepts before it is advanced.





TRANSIT EXCHANGE CONFIRMED LOCATION

Relocation of the downtown transit exchange from the temporary Prideaux location has been a priority for many years. Through previous studies, several potential exchange locations have been explored.

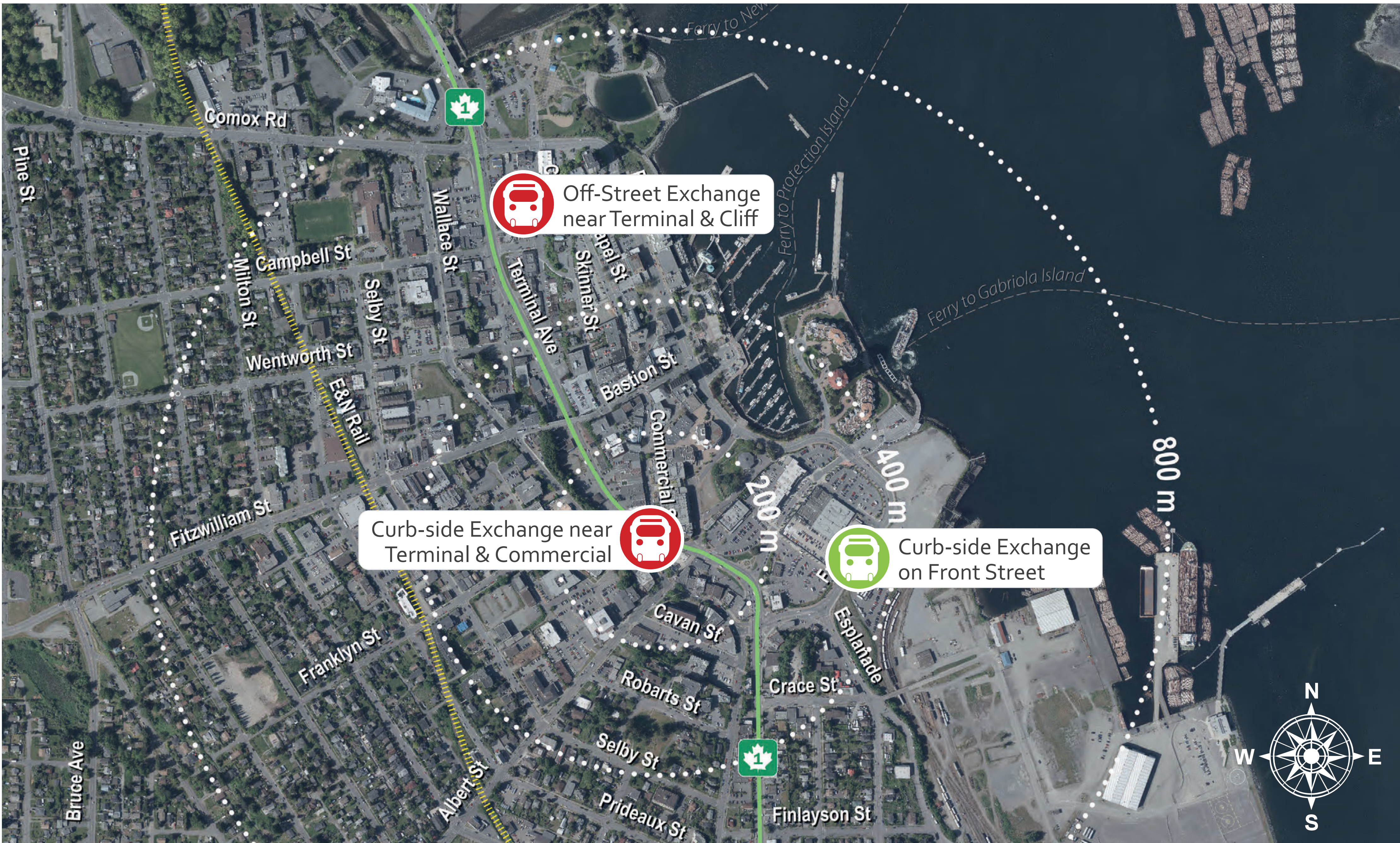
The Downtown Mobility Hub Project undertook a comprehensive review, including public input, to analyze three location options. The analysis recommends a long-term downtown transit exchange on Front Street.



PUBLIC PRIORITIES

-  **SAFETY & ACCESSIBILITY**
Needs to feel safe and comfortable for all, with full accessibility, lighting, and amenities
-  **PUBLIC AMENITIES**
Weather shelters, seating, bike lock-up, and access to washrooms are important
-  **CONNECTIVITY**
Good walking and biking connections to the exchange are needed
-  **QUALITY INTEGRATED DESIGN**
The exchange should be integrated into the urban landscape, not feel like a parking lot

TRANSIT EXCHANGE LOCATION OPTIONS & ASSESSMENT



- LEGEND**
- ✓ Positive Condition
 - Moderate Condition
 - ✗ Poor Condition

Curb-side Exchange on Front Street

- Assessment:**
- ✓ Flexible bus operations and routing aided by future roundabout
 - ✓ On future Front Street cycling route
 - ✓ Close to ferry and cruise ship terminals
 - ✓ Adjacent to Port Place shopping centre
 - ✓ City-owned right-of-way
 - Exchange bisected by local road corridor
 - Periphery of downtown
 - Property acquisition would be required for road widening
 - Possibility for expansion onto adjacent properties
 - Possible issues related to ferry queuing traffic
 - ✗ Reduced corridor mobility
 - ✗ Reduced safety
 - ✗ Jaywalking concerns
 - ✗ Inconvenient bus transfers

PREFERRED LOCATION

Curb-side Exchange near Terminal & Commercial

- Assessment:**
- ✓ Close to commercial / retail
 - ✓ In the heart of downtown
 - ✓ Walking distance to places of interest
 - ✓ Easy access to cycling facilities
 - ✗ Restricted bus movements and inflexible bay assignment
 - ✗ Inconvenient for passengers if exchange is spread out during future expansion
 - ✗ Inconvenient bus transfers
 - ✗ Jaywalking concerns
 - ✗ Remote from ferry and cruise ship terminals
 - ✗ Combination of ministry and city-owned rights-of-way
 - ✗ Property acquisition would be required for road widening
 - ✗ Reduced regional corridor mobility
 - ✗ Reduced safety
 - ✗ Exchange bisected by regional road corridor

Off-Street Exchange near Terminal & Cliff

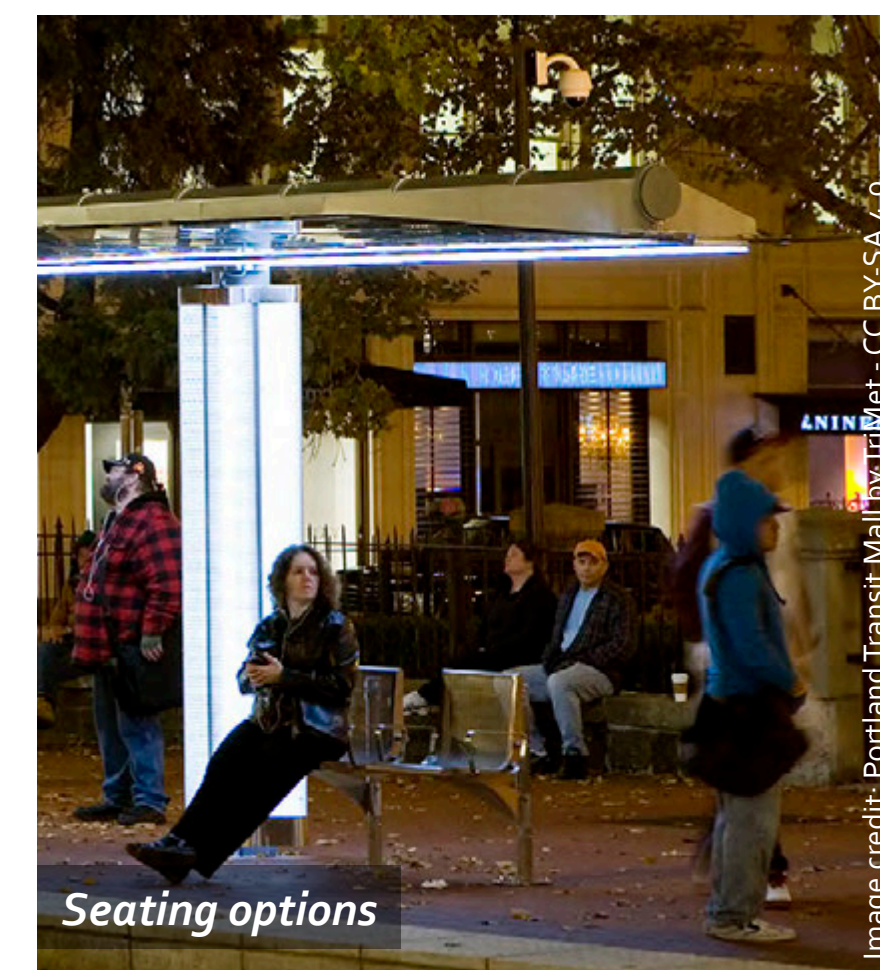
- Assessment:**
- ✓ Custom exchange design (although constrained property)
 - Limited street impacts and possible layovers on-street
 - ✓ Adjacent to Tofino Bus
 - ✓ Close to Waterfront Walkway and future Front St cycling facility
 - Possible traffic signal addition on regional highway
 - Possible expansion through surrounding area redevelopment
 - Periphery of downtown
 - ✗ Industrial / service / auto area context
 - ✗ CPTED (crime prevention) concerns due to semi-industrial location
 - ✗ Possible site contamination
 - ✗ Topography challenges
 - ✗ Private property
 - ✗ Remote from ferry and cruise ship terminals
 - ✗ Remote from pedestrian hubs



TRANSIT EXCHANGE DESIGN CRITERIA

Now that the Front Street Transit Exchange location has been confirmed, the next step will be developing a concept for the future exchange. Public priorities for amenities and design will be considered as part of the concept development, alongside technical circulation requirements. Below are some of the types of design elements that may be considered.

ACCESSIBILITY & COMFORT



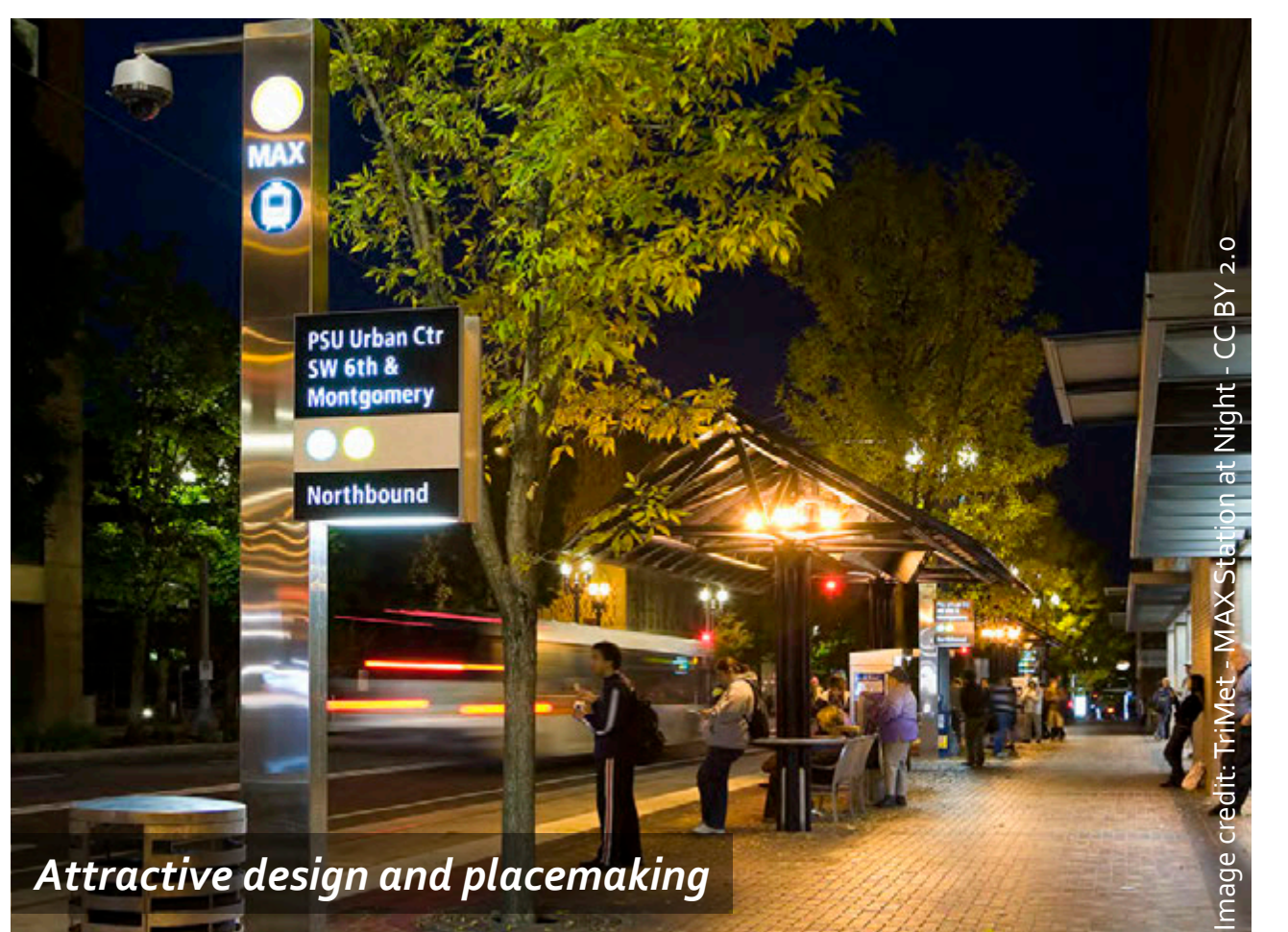
INFORMATION & TECHNOLOGY



CYCLING



DESIGN & ART



YOUR THOUGHTS

Do you have a suggestion for creating a great future Front Street Transit Exchange? Post it here. Feedback will be used as input to developing design criteria for the future exchange.





PARKING STRATEGY OVERVIEW

The availability, convenience, and cost of parking influences where and how we travel. It helps shape development patterns, street environments, land uses, and transportation choices.

The Transportation Master Plan recommends managing parking downtown to more efficiently share supply and maximize the benefits of each parking space, while helping the City shift to a more sustainable transportation mix.

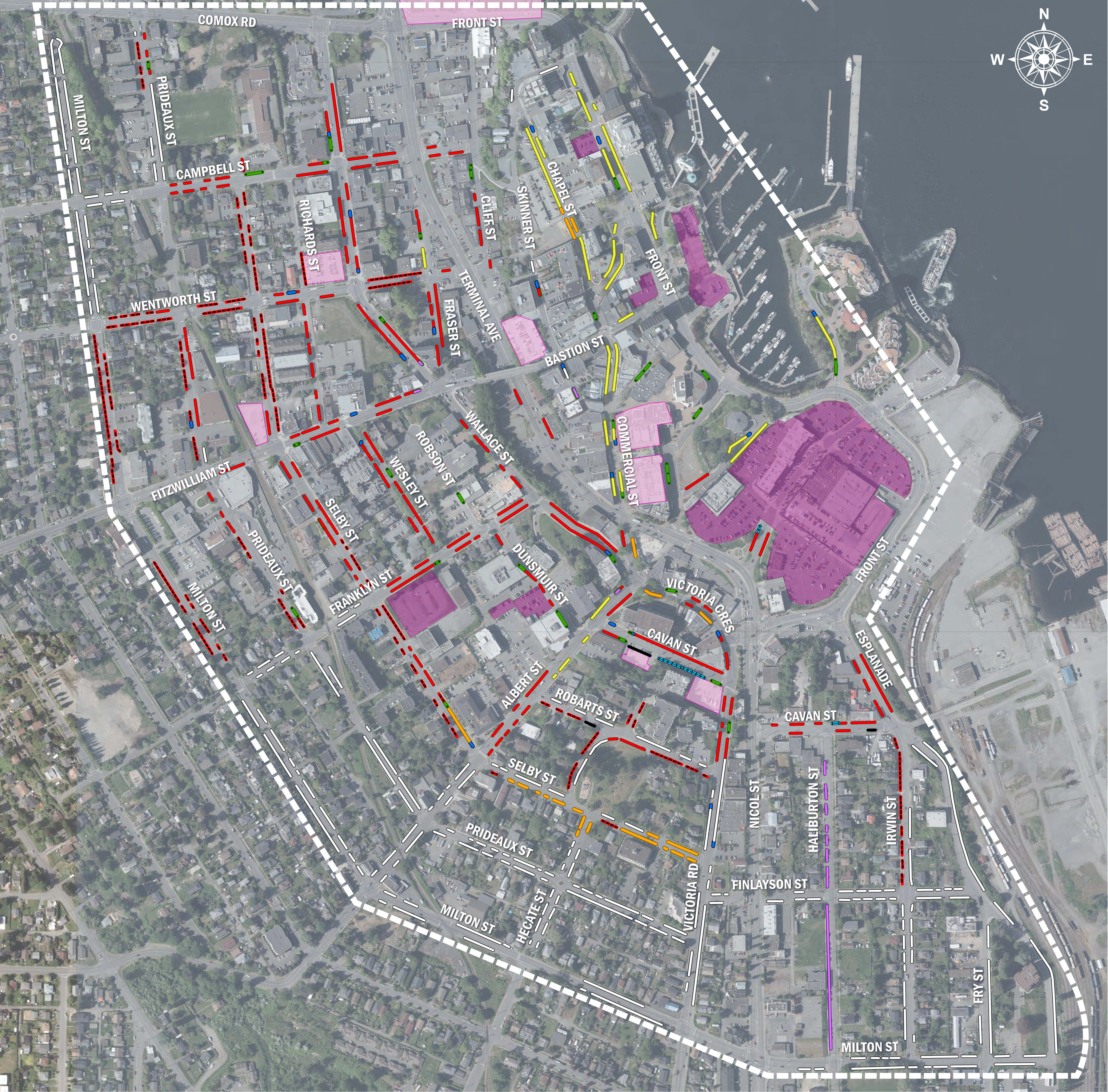
OBSERVATIONS

- Parking counts show that downtown parking supply substantially exceeds demand at most times, except during special events
- Currently only 10% of the downtown's on-street public parking requires payment
- The majority of off-street public parking lots and garages require payment
- Wayfinding that helps people find available parking is not working well
- While opinions vary, most people find the supply and cost of downtown parking acceptable

PUBLIC PRIORITIES

- WAYFINDING**
People are often unsure of where to look for parking including finding garages and lots
- SAFETY**
Concerns about safety, especially in parking garages
- SPECIAL EVENTS**
When multiple events or celebrations occur downtown, parking can be hard to find
- ALTERNATIVES**
More accommodation is needed for modes like electric vehicles, motorcycles, bicycles

OVERVIEW OF CURRENT DOWNTOWN PARKING



LEGEND

PUBLIC ON-STREET PARKING
Total estimated stalls = 1,882

- 1 hr parking (48 stalls)
- 2 hr parking (496 stalls)
- 2 hr parking, resident exempt (297 stalls)
- 2 hr pay parking (171 stalls)
- 4+ hours
- Monthly parking
- Accessible parking (24 stalls)
- Construction restrictions
- Loading zone (63 stalls)
- No parking restrictions (756 stalls)

PUBLIC OFF-STREET PARKING LOTS
Total estimated stalls = 1,076

- Public Off-Street Parking Lots

PRIVATE OFF-STREET PARKING LOTS*
Total estimated stalls = 1,086

*NOTE: Off-street parking lots owned and operated privately are shown for information, but were not part of the parking occupancy study

- Private Off-Street Parking Lots



PARKING STRATEGY OCCUPANCY STUDY



ABOUT PARKING OCCUPANCY

- Parking occupancy is how many of an area's parking stalls are in use during specific times. This helps understand when types of parking are being used
- The Transportation Master Plan recommends setting parking occupancy targets for high demand areas like downtown at **85% occupancy** during peak times in order to create a balance between the availability of parking and excessive parking supply

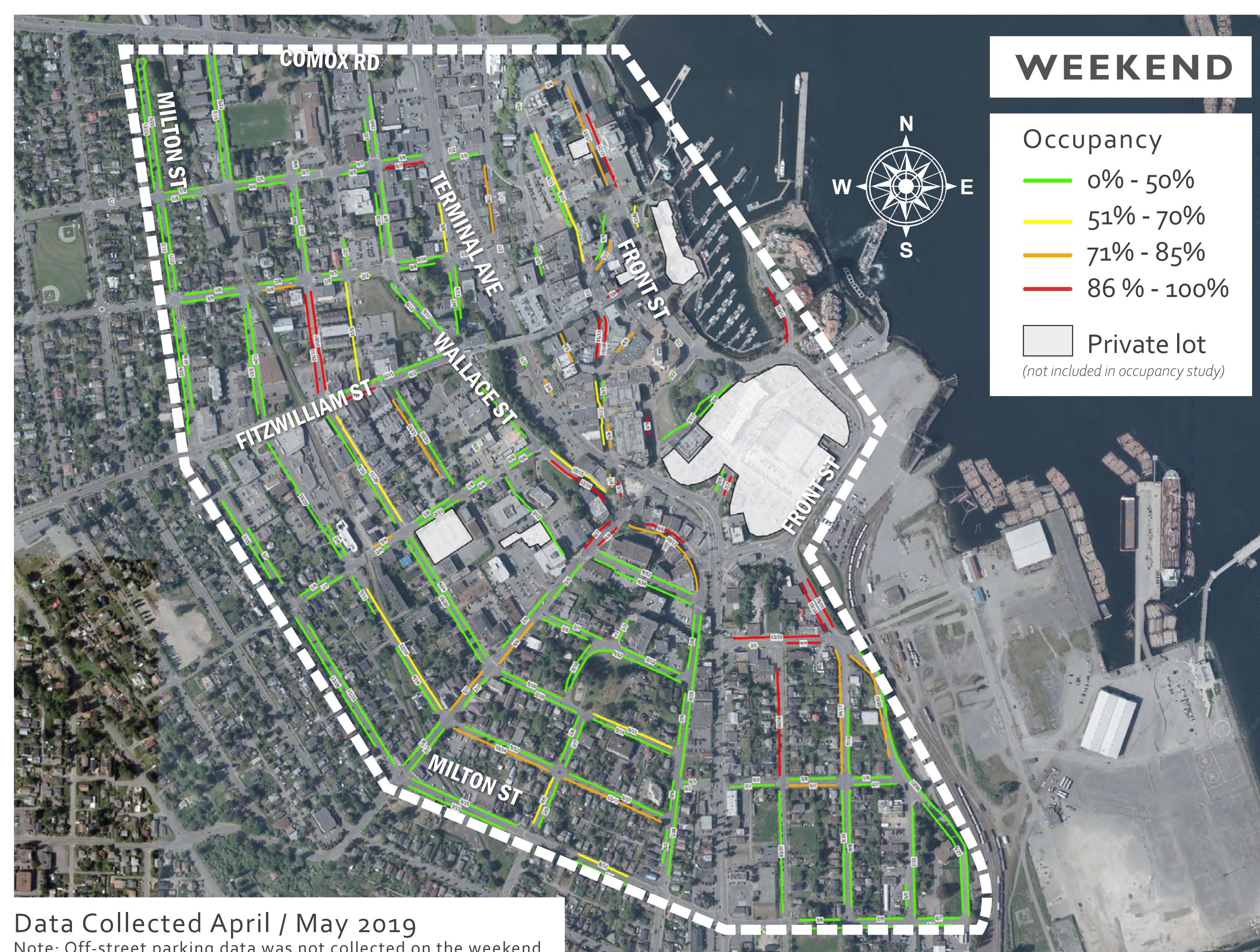
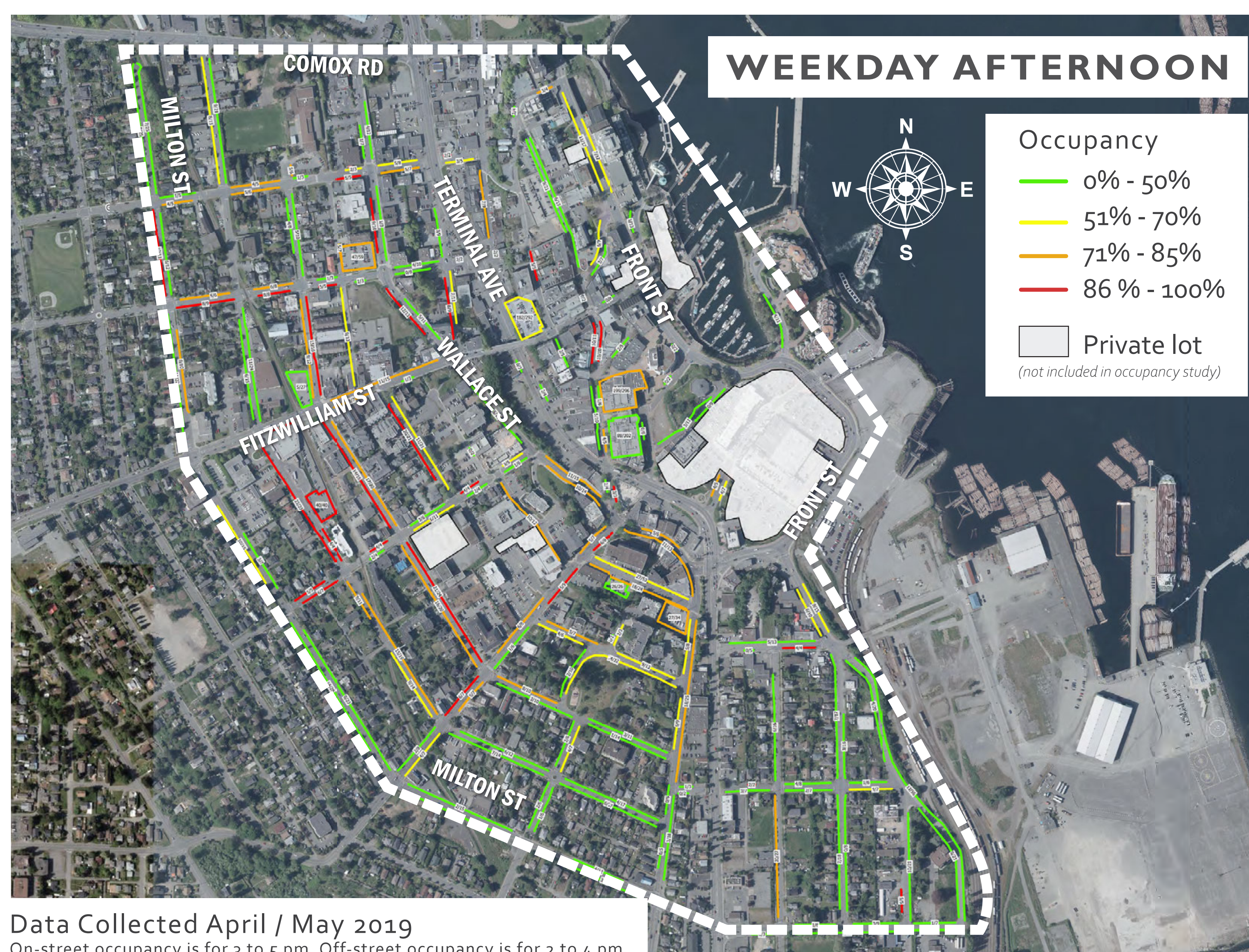
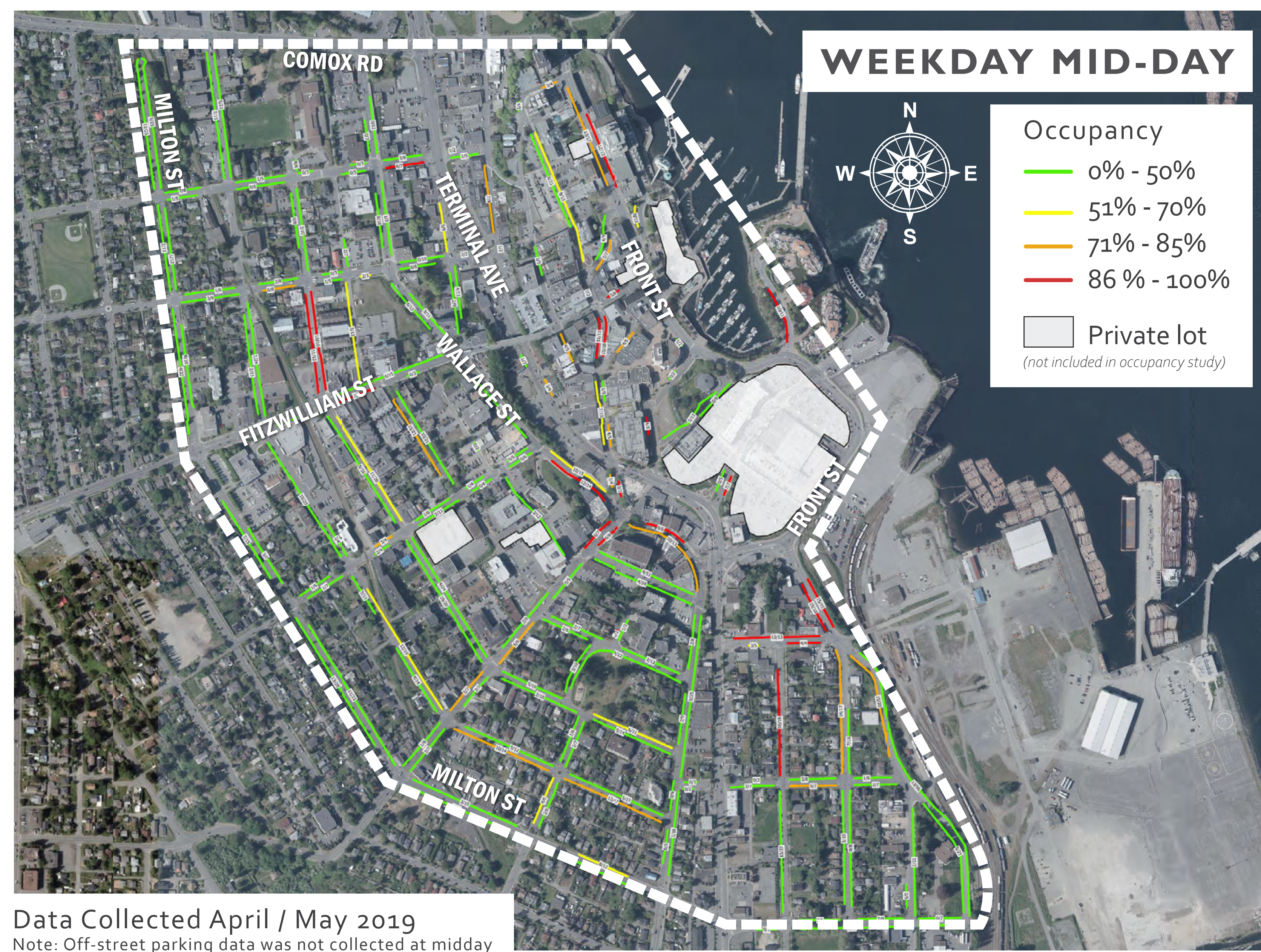
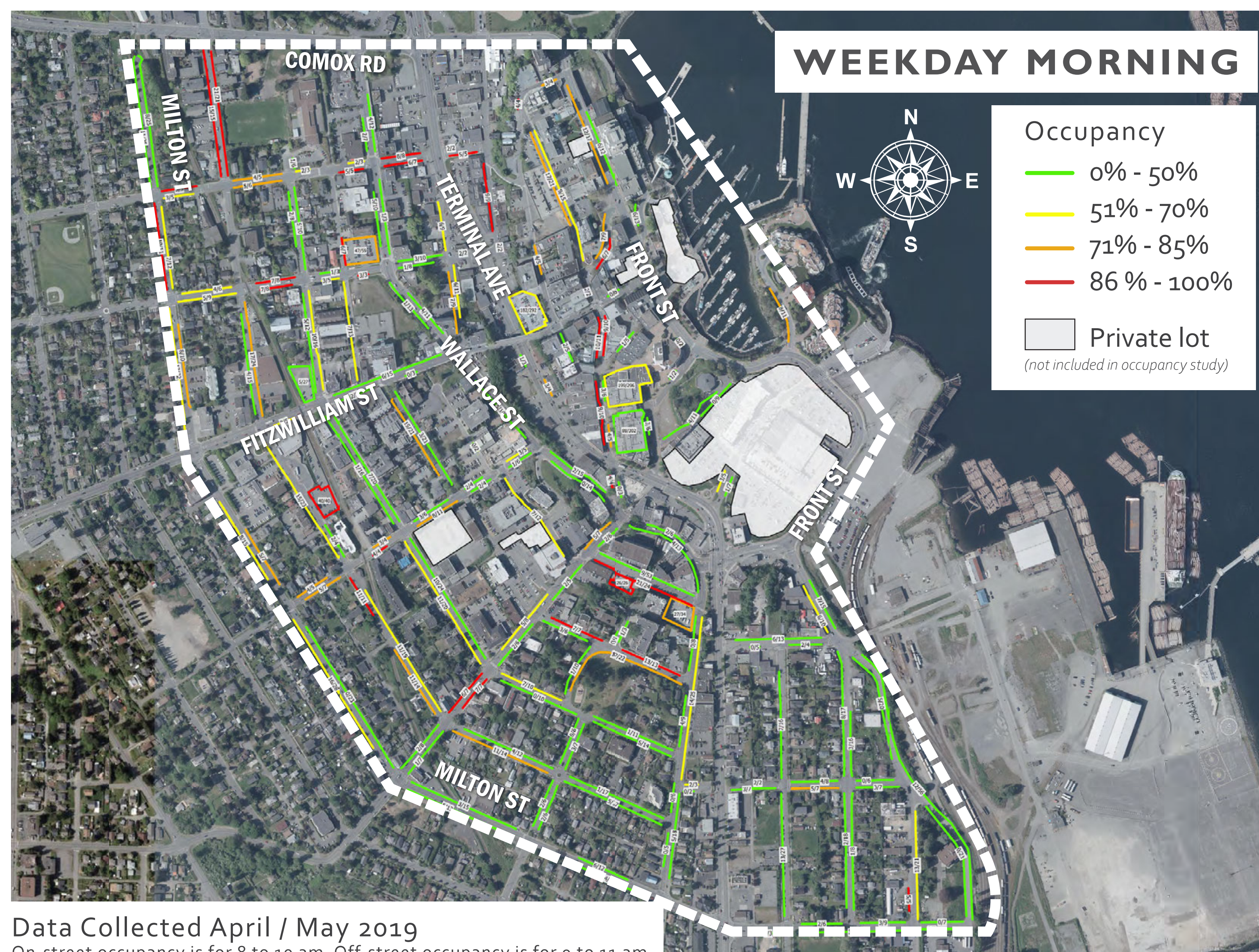
FINDINGS OF THE DOWNTOWN MOBILITY OCCUPANCY STUDY

On-street parking occupancy

- Weekday Mornings = **50%**
- Weekday Mid-day = **60%**
- Weekday Afternoon = **55%**
- Weekend = **40%**
- 2-hour free parking is most used and is the only parking type observed reaching 85% occupancy (at mid-day)
- A turnover study indicates many people exceed the allowable length of stay for parking

Off-street public parking occupancy

- Weekdays = **55%**
- Weekends = **65%**
- Off-street public parking is highly influenced by events in downtown (i.e., concerts, conferences, festivals, etc.)
- During special events, wayfinding for available parking could direct people to less used parking lots / parkades





PARKING STRATEGY

KEY EMERGING DIRECTIONS

1 Improve Parking Wayfinding and Information

Why?

- The difficulty many drivers face when searching for parking is not caused by a lack of available parking, but rather by a lack of information on where parking is
- The Transportation Master Plan encourages wayfinding to help reduce the amount of time drivers spend searching for parking

What Could this Include?

- Digital signs at parkades or lots providing real-time information on the number of spaces available
- Better signage to guide people to lots and parkades; parking management during special events; temporary signage or flaggers to direct drivers to available parking
- Collaboration with the technology sector to increase online information that allows advance trip preparation



Digital parking signage directs people to where parking is available

Interesting!

One US study estimated that the average driver wastes more than 17 hours per year searching for parking, resulting in wasted time, fuel, emissions, and congested roads.

2 Develop Parking Strategies for Downtown Events

Why?

- Parking capacity in downtown Nanaimo is typically much higher than demand, except when multiple or large events take place
- It's more efficient and cost-effective to manage these infrequent events, rather than increase parking supply

What Could this Include?

- Online information, temporary signs, and volunteers directing event attendees to available parking
- Off-site parking with shuttles to events
- Increased transit during events
- Secure and convenient special event bike parking to encourage people to ride



Event shuttles could move people from off-site parking to downtown



Bike valets at community events encourage alternatives

3 Manage Parking Fees to Balance Demand and Availability

Why?

- Managing fees helps parking turnover and therefore helps ensure in-demand spaces like those in the downtown core are available for people visiting businesses
- The Transportation Master Plan recommends allocating the highest parking restrictions and pricing to spaces in greatest demand

What Could this Include?

- Increased paid parking for high-demand locations during busy times
- Lower rates or restrictions in locations away from downtown
- Reduced rates or free parking during lower-use times like evenings
- More parking and special rates for alternative modes such as electric vehicles, motorcycles, bicycles
- Expansion of the 'pay-by-plate' payment method



Existing parking kiosks can be programmed based on location and time



Designated parking for alternative modes can encourage use

YOUR THOUGHTS

Do you have a comment, question, or concern about these emerging parking directions? Post it here. Feedback will be used to evaluate and refine the directions before they are advanced.

