

# Nanaimo Harbour - Terminal Development Plan

May 13, 2019

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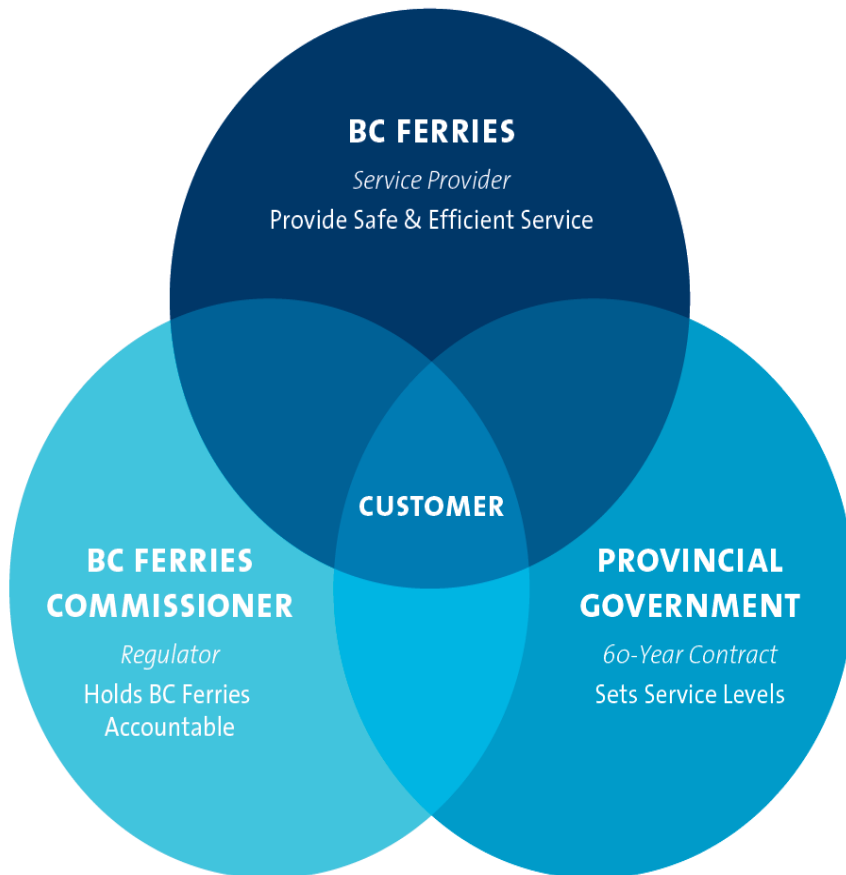


## **VISION**

Trusted, valued.

## **MISSION**

We connect communities and customers to the people and places important in their lives.



## Coastal Ferry Services Contract

- Between the Province of B.C. and BC Ferries - establishes routes, service levels and service fees
- 60-year agreement, with service levels and fees negotiated every four years
  - Province provides \$155M annually in service fees
  - Additional support for medical and school-related travel
  - *Federal subsidy of \$29M per year (increases at CPI in perpetuity)*
- Province retains ownership of ferry terminals and has long-term leases with BC Ferries



- 4

# Key Terminal Facts

## Route 19

Descanso Bay  
Gabriola Island



3 nautical miles  
distance

20 minutes  
crossing time (approx.)



Nanaimo Harbour  
Vancouver Island

Present–2022



*Quinsam*

400 63



2022



*Island Class (2 vessels)*

300 47



300 47



= Passenger & Crew Capacity



= Car Capacity (AEQ\*)

\* Automobile Equivalent (AEQ) is used to determine vessel capacity based on a standard vehicle measure of 6.1 x 2.6 meters, roughly equal to a full size family vehicle.

# Island Class Ferry



# Departing Nanaimo Harbour 2018



**Annual**

**4,953** Departures



**185,217** Vehicle Throughput



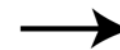
**37** Average Number of Vehicles



**101,021** Foot Passenger Throughput



**411,554** Passenger Throughput



**83** Average Number of Passengers



**\$26,419** Tax Paid to the City of Nanaimo





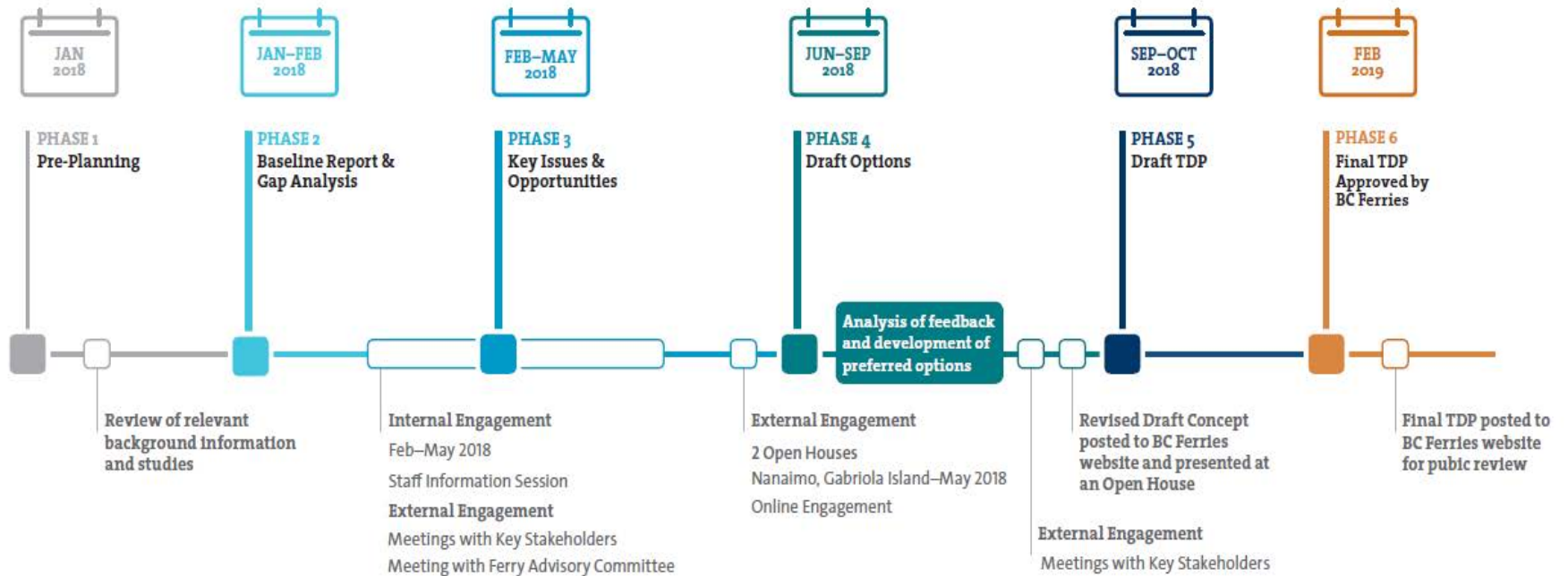
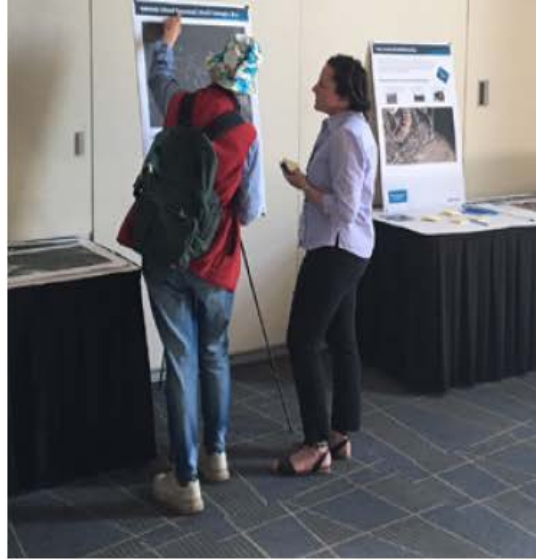
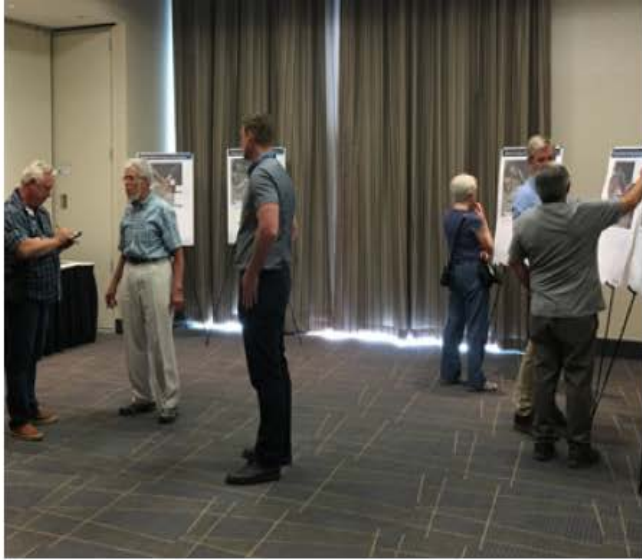
# NANAIMO HARBOUR

## Terminal Development Plan

Draft October 2018











Ferry Traffic – Points of Entry and Exit,  
and Impacts of Traffic Back-ups on  
Roadways Near Terminal



Staff facilities at  
Terminal reaching the  
end of their service life



Size of Holding  
Compound



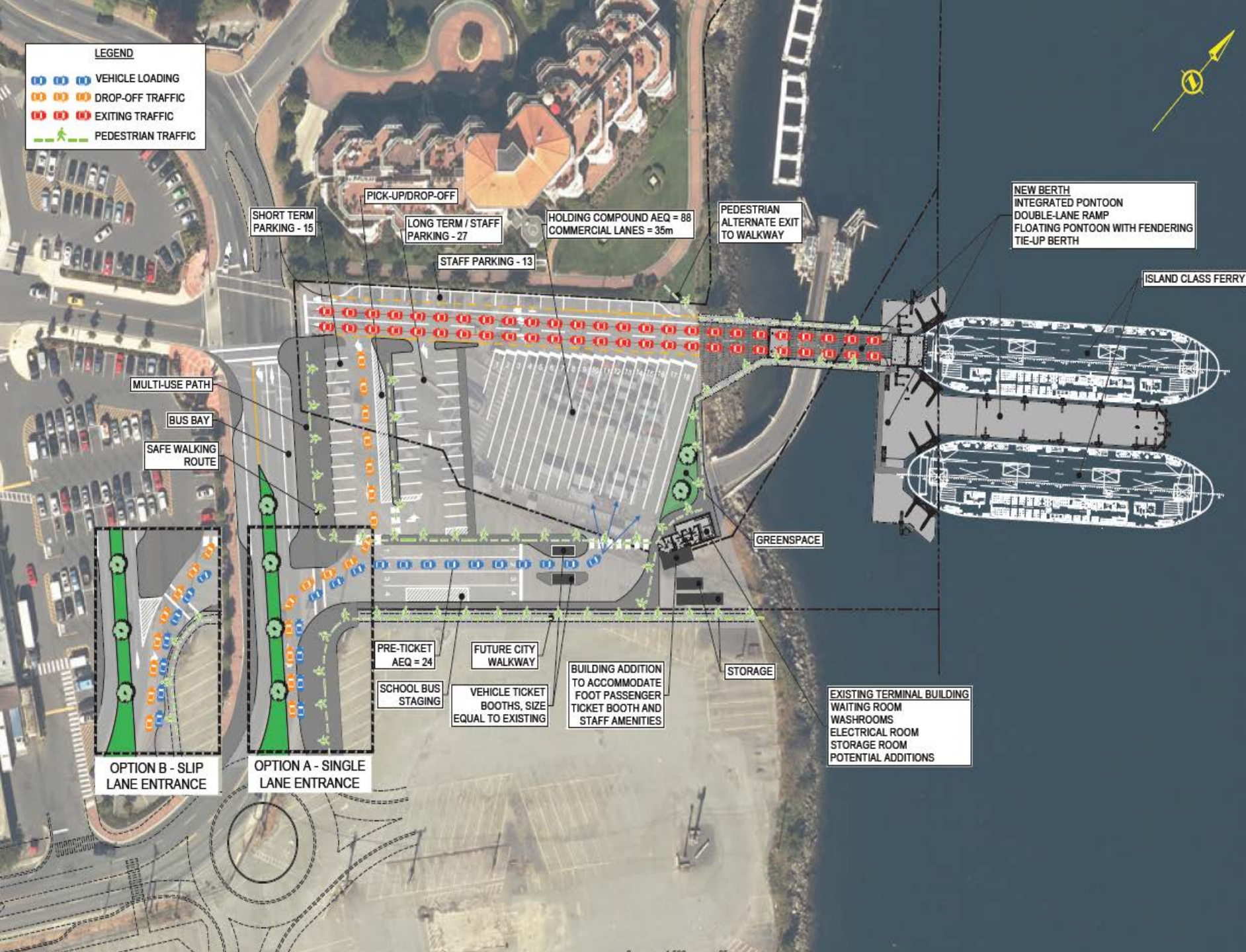
Waiting Room/  
Customer Amenities





**LEGEND**

- VEHICLE LOADING
- DROP-OFF TRAFFIC
- EXITING TRAFFIC
- PEDESTRIAN TRAFFIC





## CONCEPT OPTION 2

### Along Shoreline & Loading Ramp

#### OPPORTUNITIES

- At-grade design is more accessible by all user levels
- Provides shorter BC Ferries loading ramp crossing
- BC Ferries foot passengers exiting vessel can exit to walkway rather than walk through terminal
- BC Ferries foot passengers can queue up closer to vessel
- Potential viewpoints and interpretive signage
- Walkway can be more easily designed and constructed with BC Ferries terminal improvements

#### CONSTRAINTS

- Cantilever structure or shoreline fill required
- Wider BC Ferries loading ramp structure required
- Additional BC Ferries loading ramp foundations required
- Security gates and fencing required
- BC Ferries staff required to monitor and control access
- Regular interruptions for walkway users

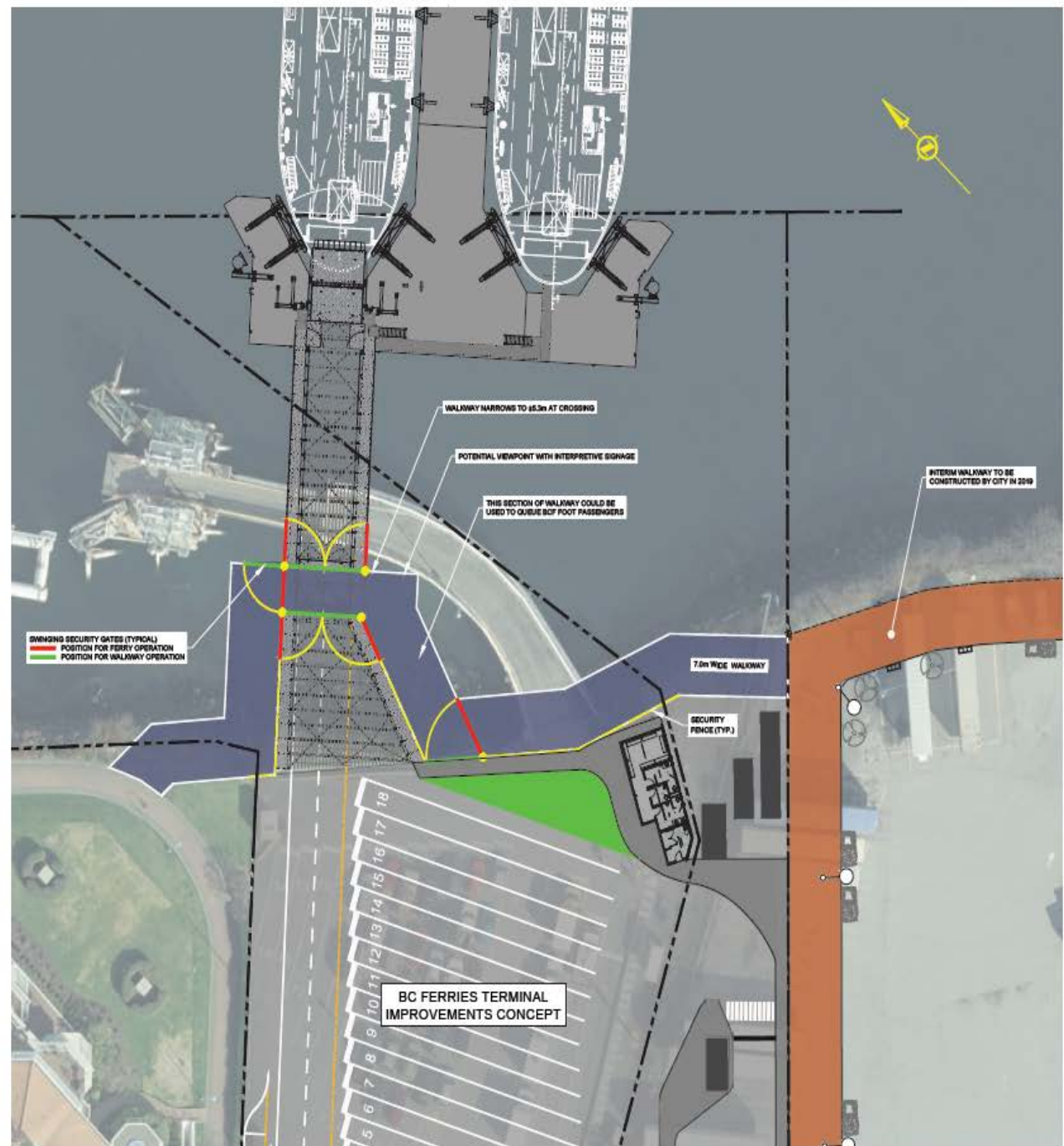


Figure 30: Waterfront Walkway Concept 2



## CONCEPT OPTION 3

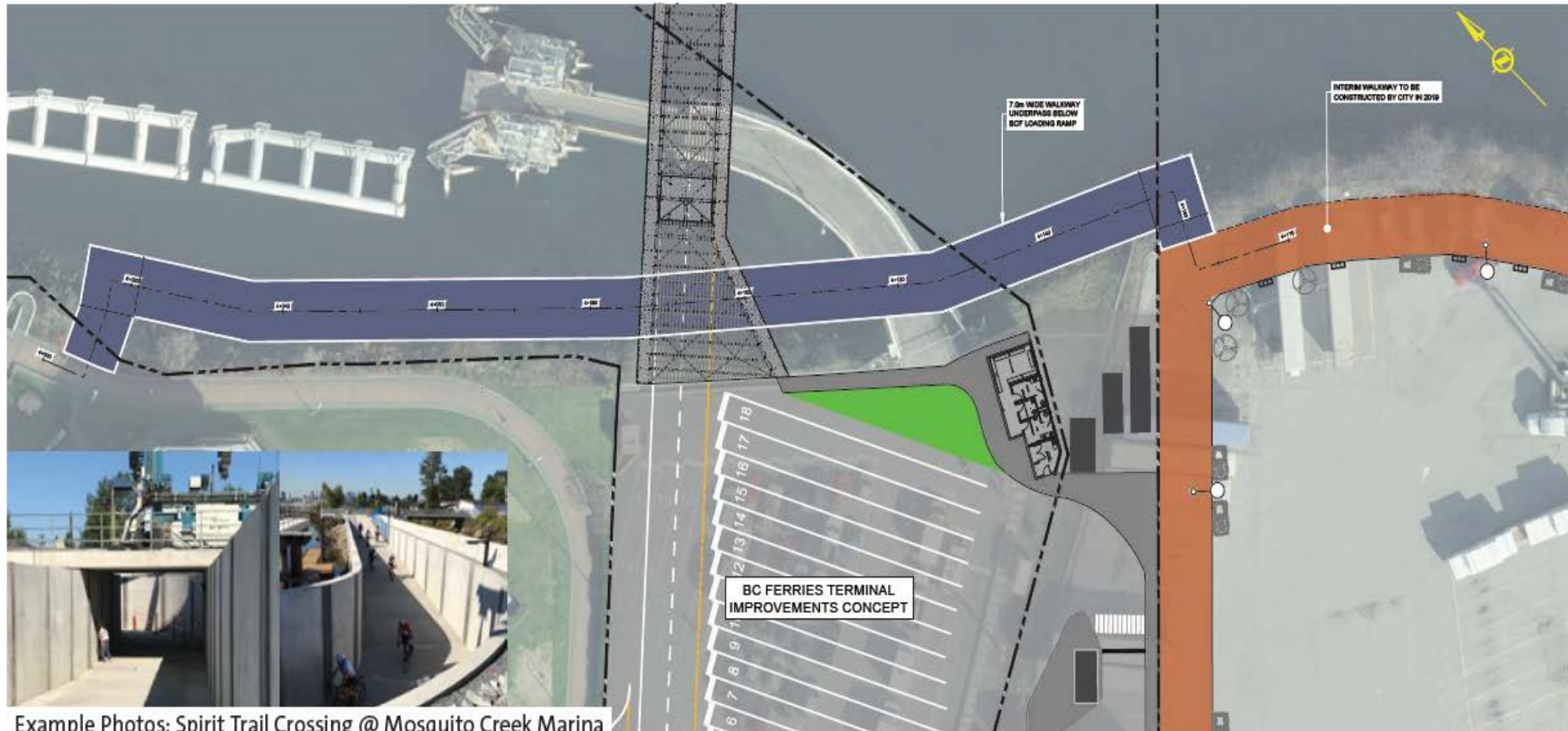
### Underpass

#### OPPORTUNITIES

- No conflict with BC Ferries terminal operations
- No BC Ferries staff needed to monitor
- Increased terminal security
- No interruptions for walkway users

#### CONSTRAINTS

- Need to design for sea level and storm surge
- Requires pumped storm drainage
- Long ramps required for accessible grades
- Grade raise required at BC Ferries loading ramp
- Offers no access for BC Ferries foot passengers
- Highest construction cost
- Potential city funding challenges



## CONCEPT OPTION 1

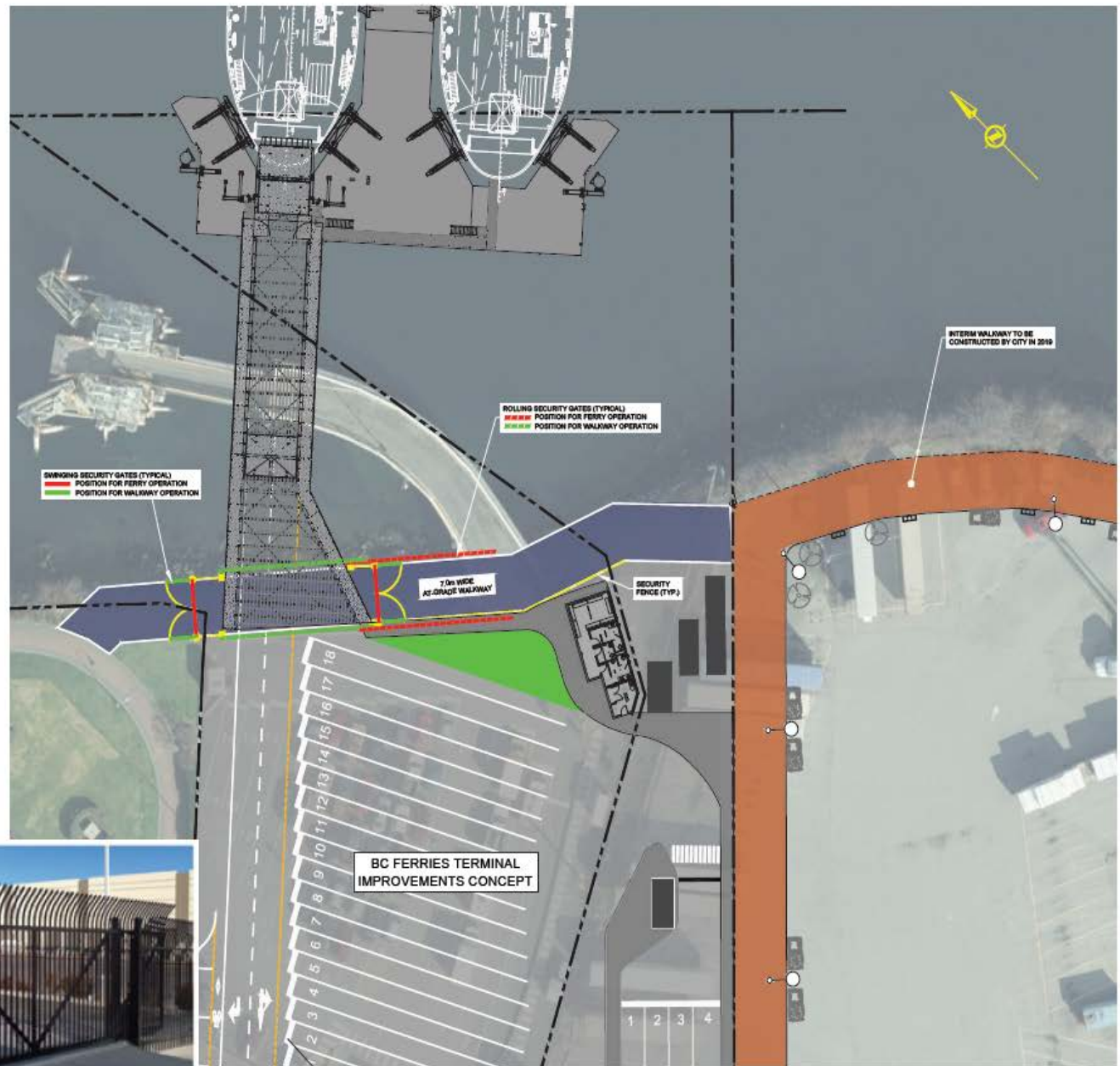
### Walkway Along Shore

#### OPPORTUNITIES

- At-grade design is more accessible by all user levels
- BC Ferries foot passengers exiting vessel can exit to walkway rather than walk through terminal
- Walkway can be more easily designed and constructed with BC Ferries terminal improvements
- Least complex option for design & construction

#### Constraints

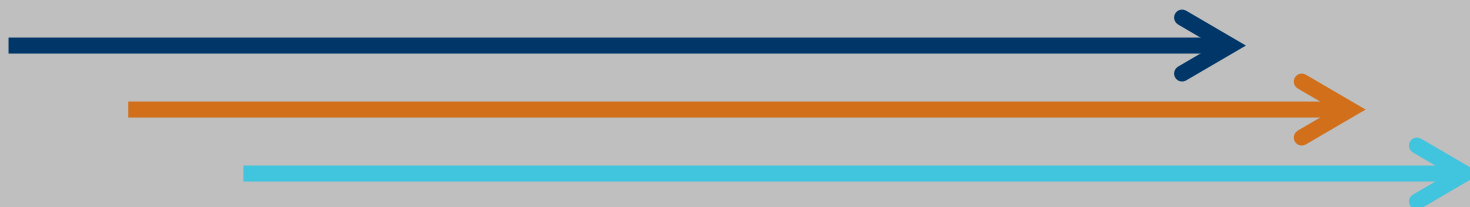
- Cantilever structure or shoreline fill required
- Security gates and fencing required
- More complex rolling gates required due to wider crossing distance
- BC Ferries staff required to monitor & control access
- Regular interruptions for walkway users



Example Commercial Rolling Gate - Ameristar Fence Products

Figure 29: Waterfront Walkway Concept 1

Given that the TDP is approved,  
& we are planning for the first phase of implementation,  
**how would you like to be involved going forward?**



# Questions?