



Broadway Subway Project

Broadway-City Hall Station Information Session
April 27, 2021



Purpose

- Share information about the method of construction and timing of the Broadway Subway Project around the future Broadway - City Hall Station
 - Safety for residents, businesses and visitors
 - Traffic, access, parking and construction information
 - Construction mitigation from site activities

Presentation Overview

1. Broadway at a Glance
2. Project Team and Partners
3. Our Commitments
4. Project Overview
5. Construction Sequence
6. Being a good neighbour
7. Questions and Comments

Broadway at a Glance

- More than 125,000 people living in the corridor
- Second largest employment centre in the province, with more than 105,000 jobs along the Broadway corridor
- 110,000 transit trips each day
- One of the busiest routes for goods movement in City of Vancouver
- Largest hospital (VGH) in Western Canada
- High-tech clusters drawing commuters for work and to centres for research, innovation and education

Project Team and Partners



transportation
investment
corporation





Our Commitments



Our Commitments to You

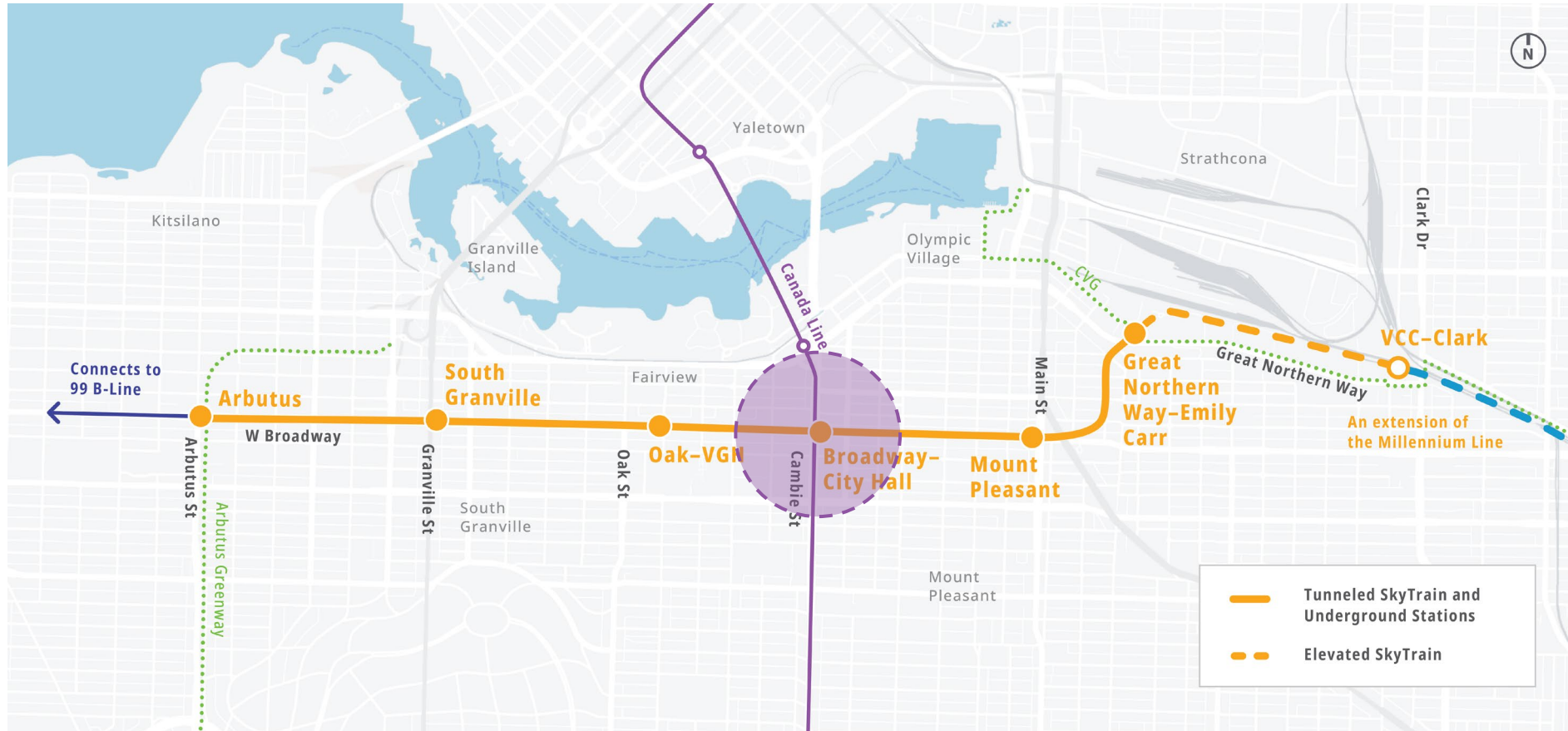
- Communicate transparently, clearly and consistently
- Provide regular updates and advanced notice of construction activities
- Mitigate construction impacts wherever possible
- Minimize transmission of dirt, dust, light, noise and vibration
- Safety: For public and for workers
- Mobility: Buses, vehicles, pedestrians, cyclists, Canada Line
- Access: Businesses, residences, services



Project Overview



Alignment Overview: 6 New Stations



Family of Stations



Great Northern Way – Emily Carr



Mount Pleasant



Broadway – City Hall



Oak-VGH

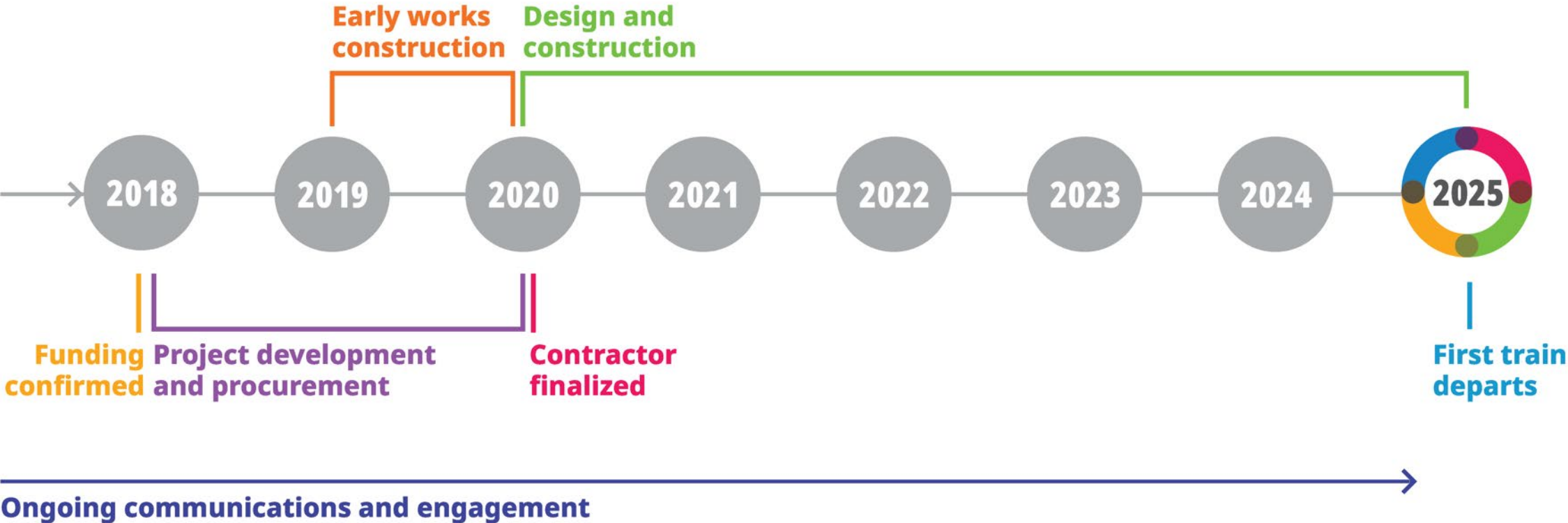


South Granville



Arbutus

Project Overall Schedule



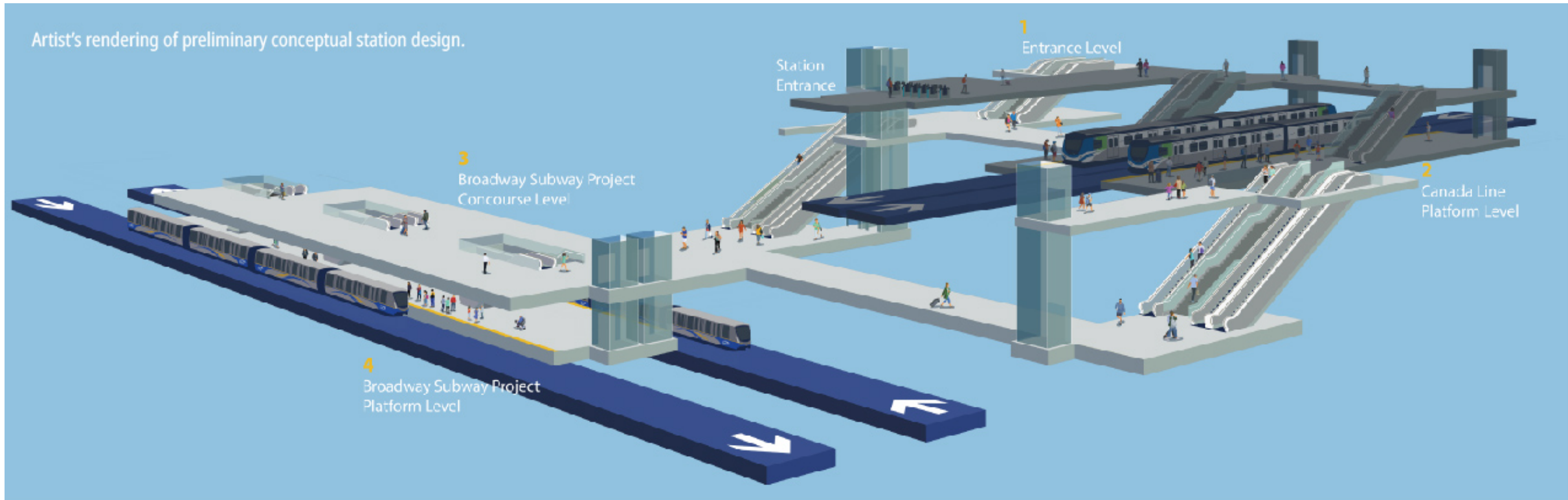
Broadway-City Hall Station



Artist's renderings of preliminary conceptual station design. Final streetscape and development will be subject to the City of Vancouver's Broadway Plan.

- Uses the existing entrance to the Canada Line at the southeast corner of Broadway and Cambie Street
- Convenient underground connection between the Millennium and Canada lines
- Greater access to Vancouver City Hall, the Cambie Village area, and destinations along the Canada Line, including downtown Vancouver and the Vancouver International Airport

Below Ground Conceptual Station Design

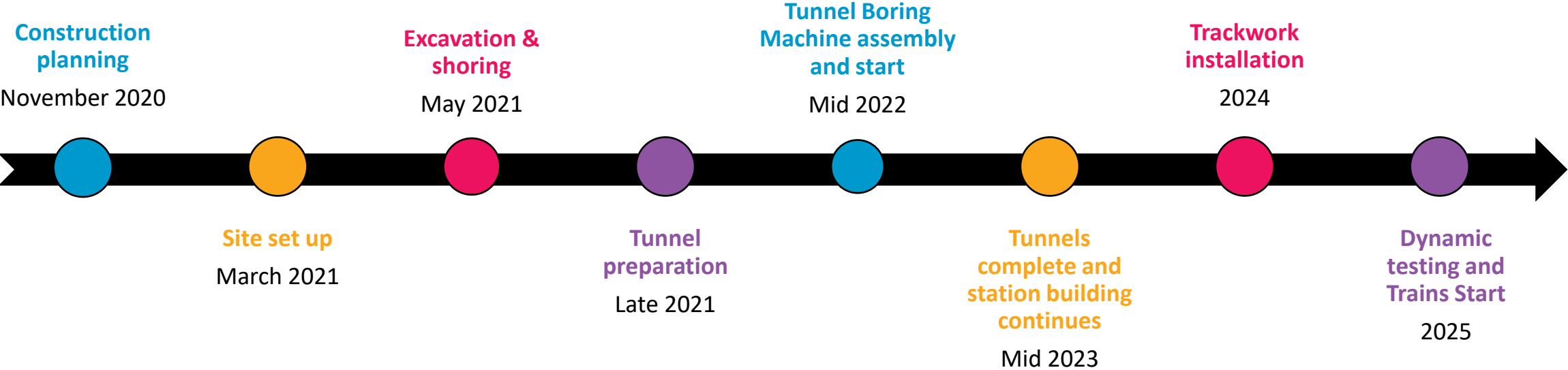




Construction Sequence



Construction Sequence



Innovative Engineering

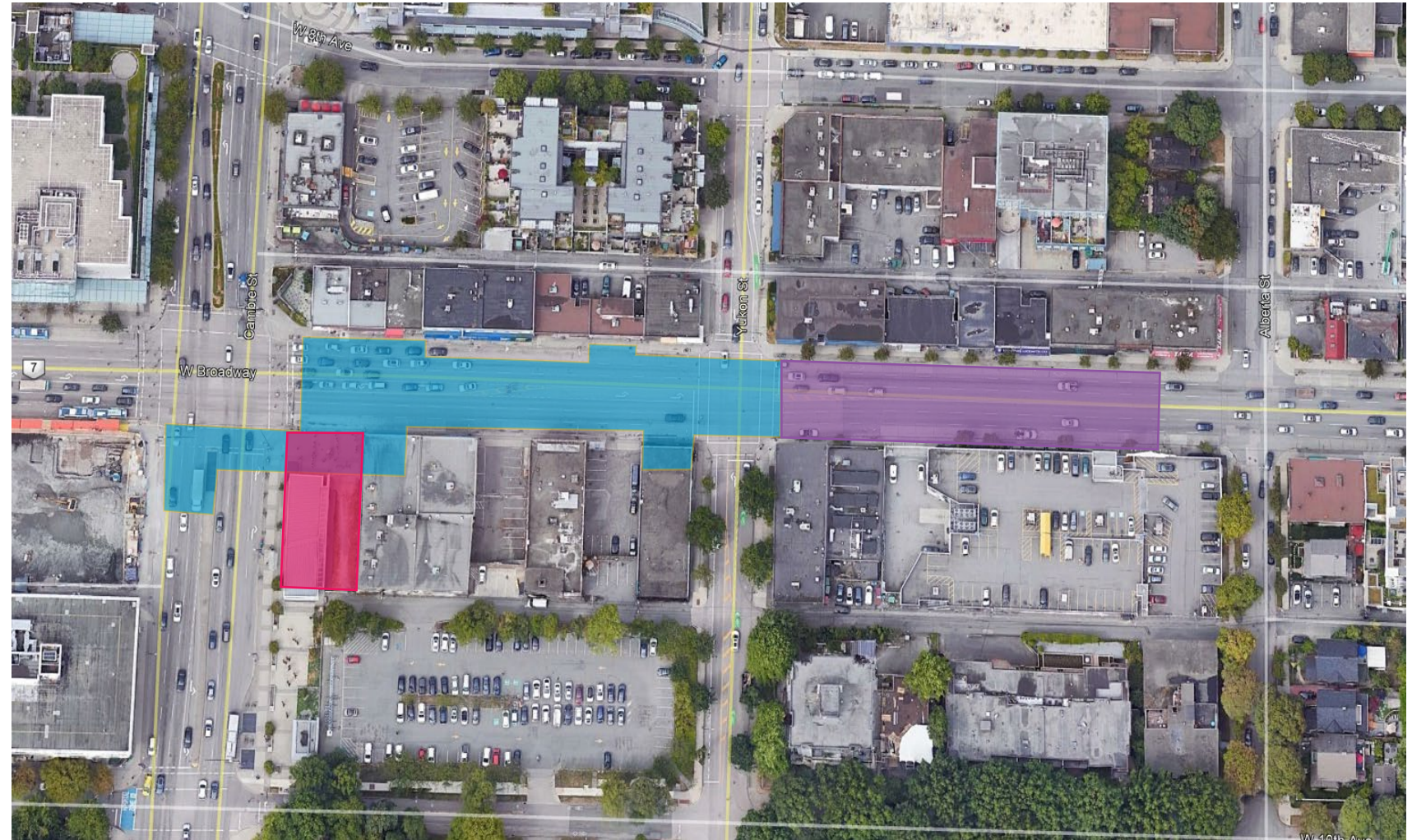
Implement a solution to manage traffic and construction in one of the busiest corridors in North America during construction

- Maintain traffic access throughout construction
- Minimize disruption to businesses, residents and visitors
- Continue access to public transit
- Maintain pedestrian access to residences, businesses and services

Station Location

Legend:

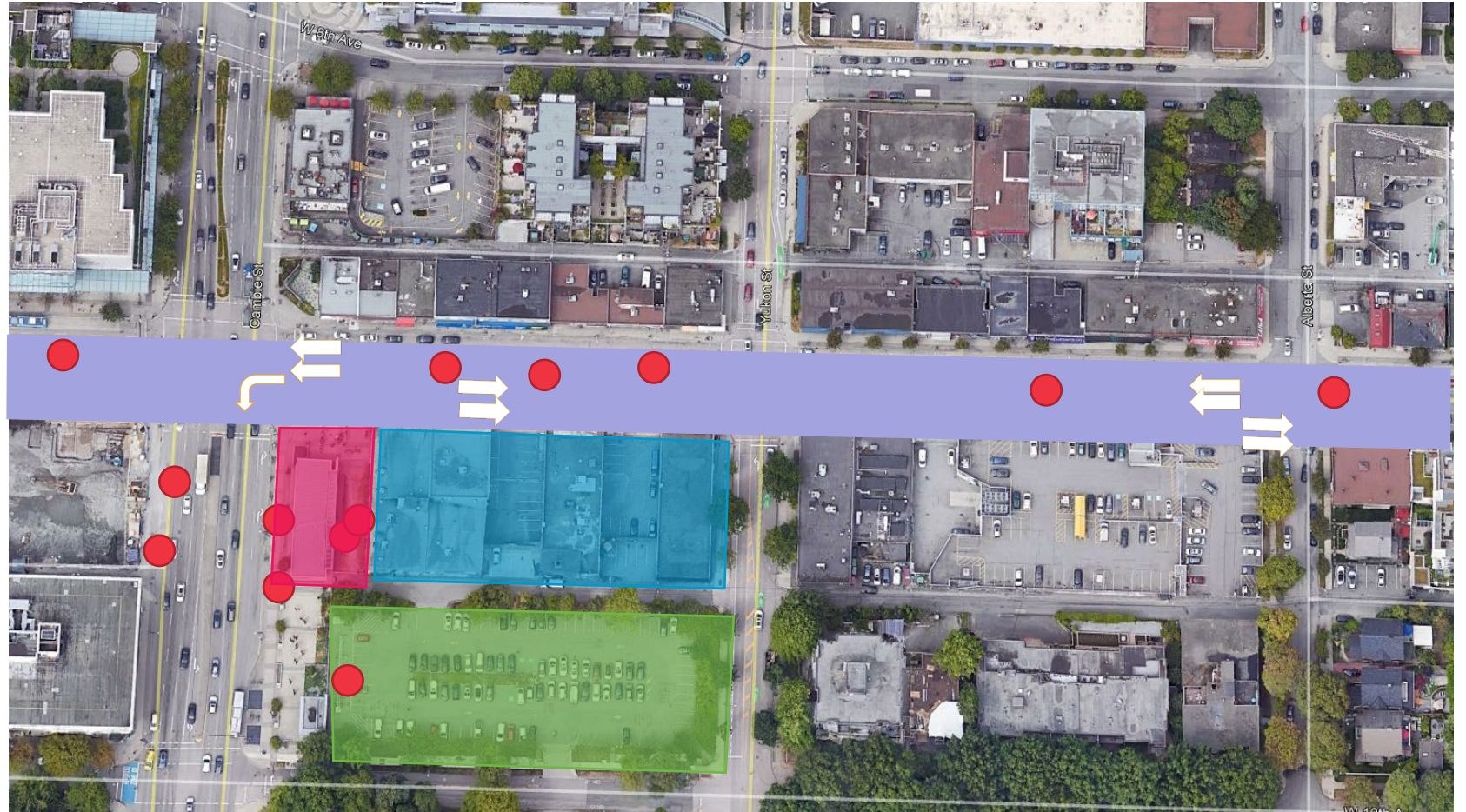
-  Underground Station Area
-  Track Crossover Area
-  Future Station



Geotechnical Investigation and Building Demolition Spring 2021

Legend:

- Open traffic flow
- Demolition Zone
- Future Station Entrance
- Laydown
- Bore holes



- Geotechnical investigations collect information about the ground conditions that help inform our construction plans
- To prepare the site of the future Broadway-City station, buildings are being demolished beginning in April and finishing in May
- During demolition there are some temporary traffic detours





Traffic Deck

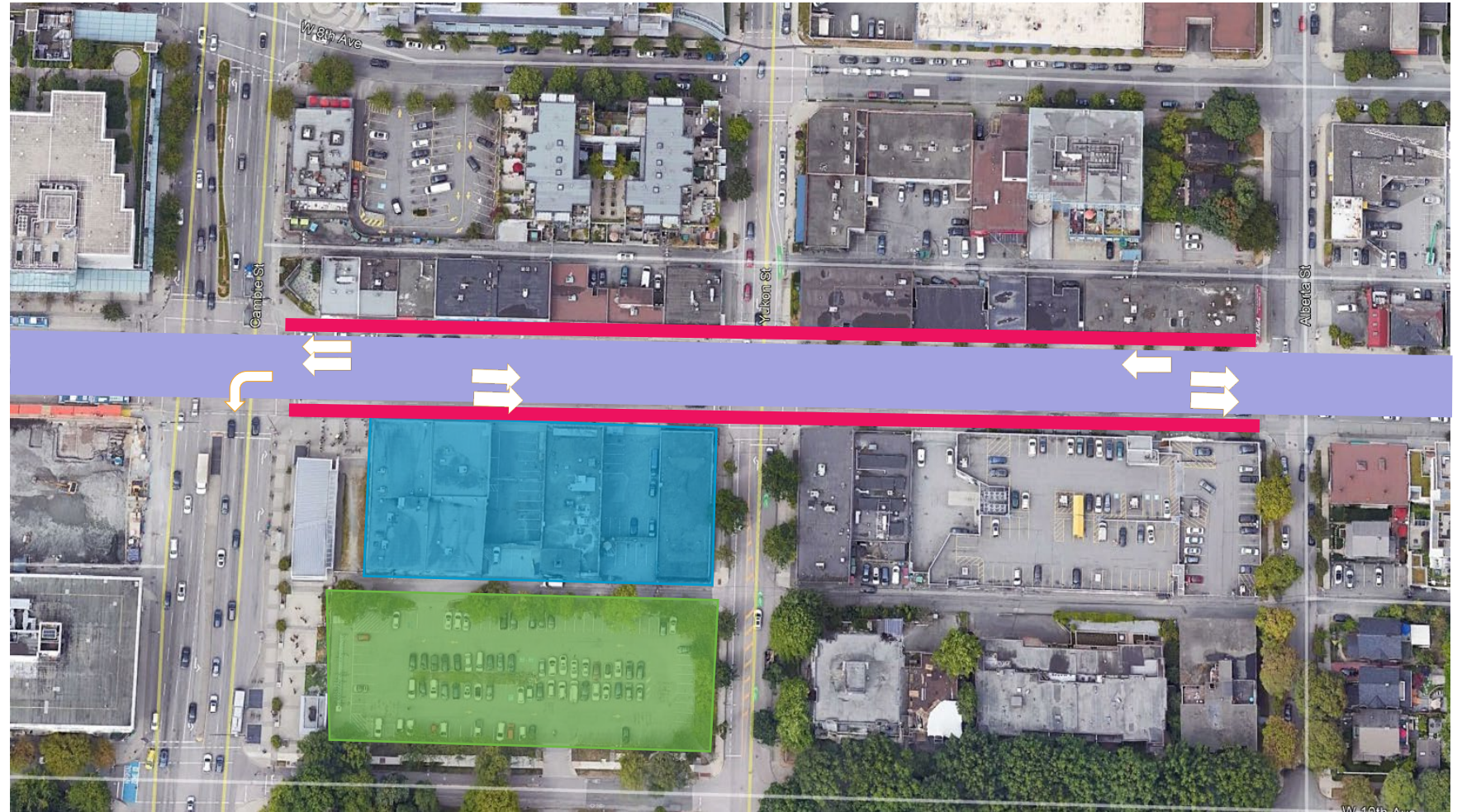


- 3 lanes of traffic, two eastbound and one westbound, will be operational while the traffic decking is installed at the beginning of construction.
- Once the traffic deck is complete, 4 lanes of traffic will be opened and maintained until construction completion.
- Traffic signals modifications will be required at intersections to accommodate lane re-alignment
- Short-term lane closures for utility relocation

Drilling and Inserting Columns Spring 2021

Legend:

-  Traffic Deck Support System
-  Work Site
-  Open traffic flow
-  Laydown








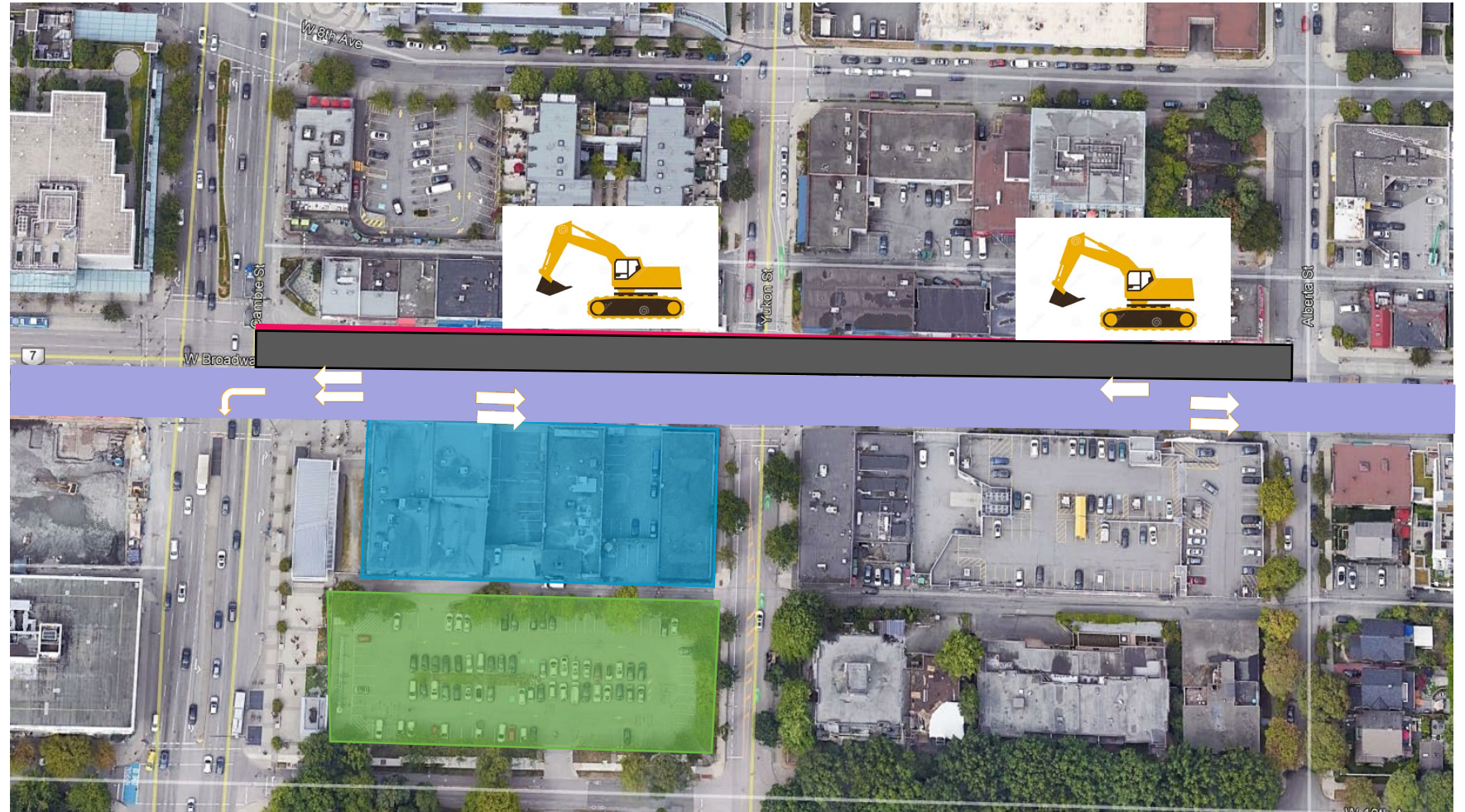
- Stage 1: Lanes closed to traffic on the south side of East Broadway during drilling works on the south side
- Stage 2: Lanes closed to traffic on the north side of East Broadway during drilling works on the north side

Excavation and Traffic Deck Installation

Summer 2021

Legend:

-  Traffic Deck Support System
-  Temporary traffic deck being built
-  Open traffic flow
-  Work Site
-  Laydown



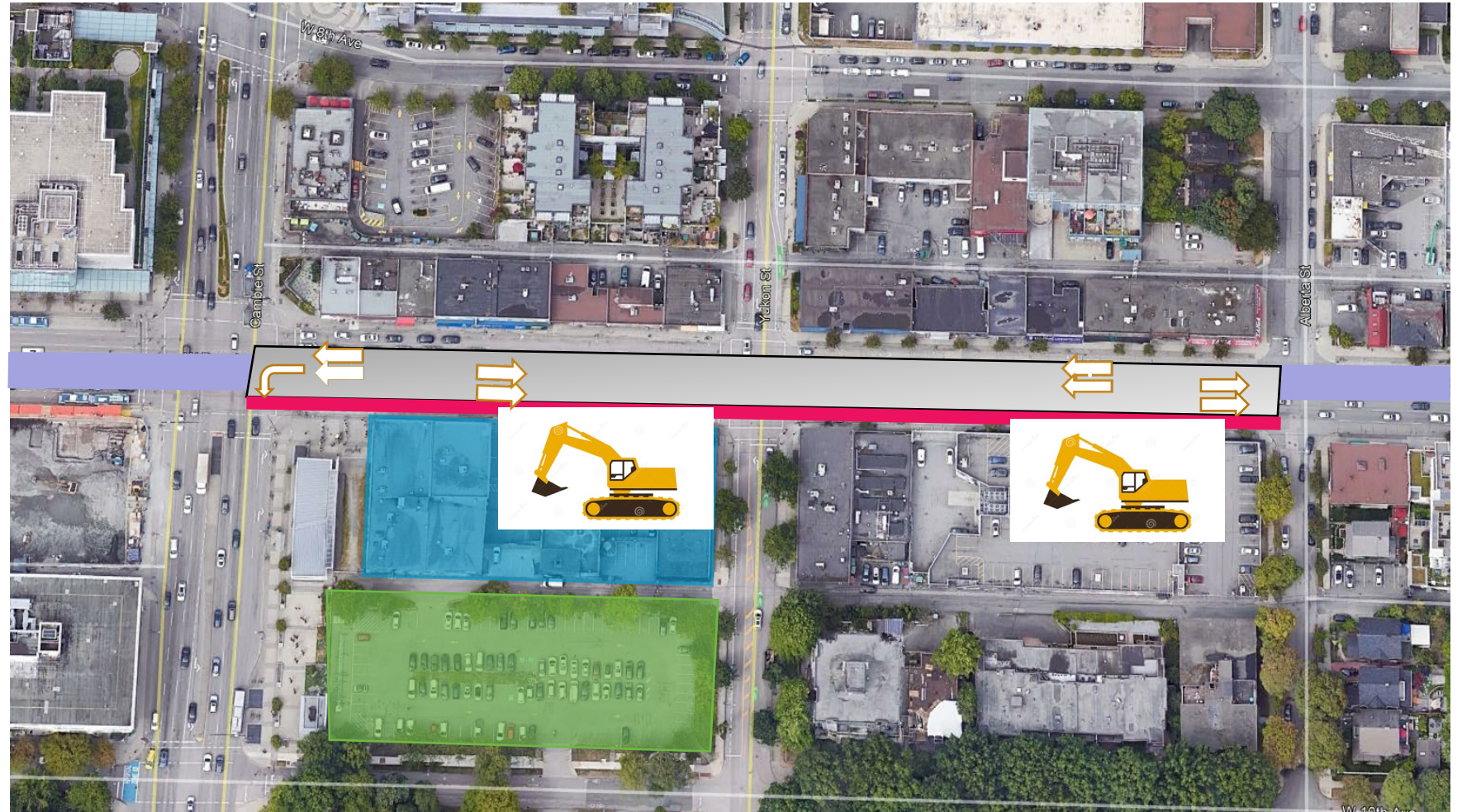
- Stage 3: North side lanes closed to traffic during excavation and as the traffic deck is being built on the north side

Excavation and Traffic Deck Completion

Fall 2021

Legend:

- Temporary traffic deck open
- Open traffic flow
- Traffic Deck Support System
- Work Site
- Laydown

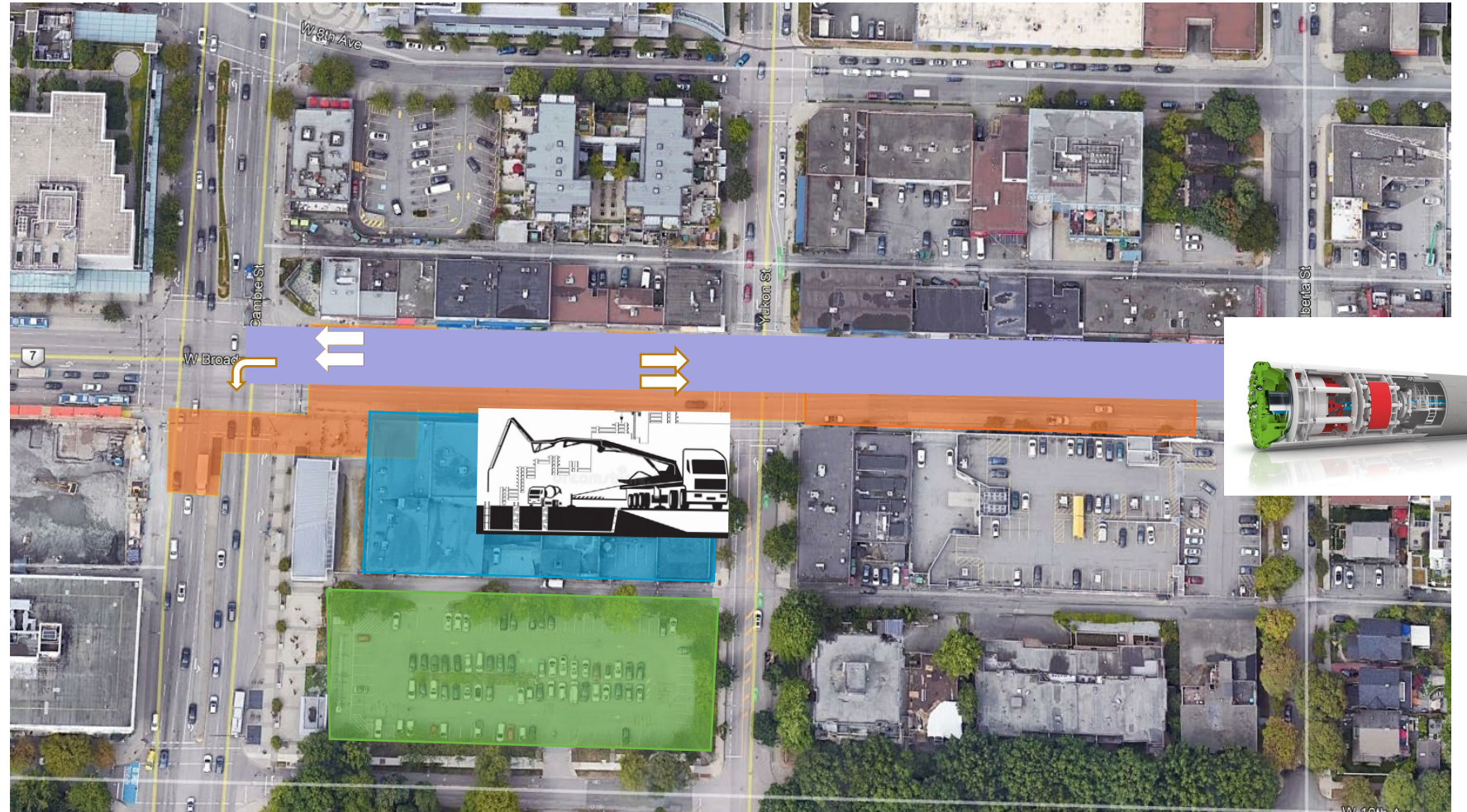


- Stage 4 and 5: Four lanes of traffic are open, two in each direction
- Underground excavation continues

Preparing for the Tunnel Work Summer/Fall 2022

Legend:

- Underground Project Area
- Open traffic flow
- Work Site
- Laydown



- Pour concrete to prepare the excavation for the tunnel boring machines (18m below street)
- TBMs arrive and traverse through station
- Traffic flows smoothly above this work on the traffic deck

Construct Underground Station 2022 - 2025

Legend:

- Underground Project Work Area
- Open traffic flow
- Work Site
- Future station entrance
- Laydown

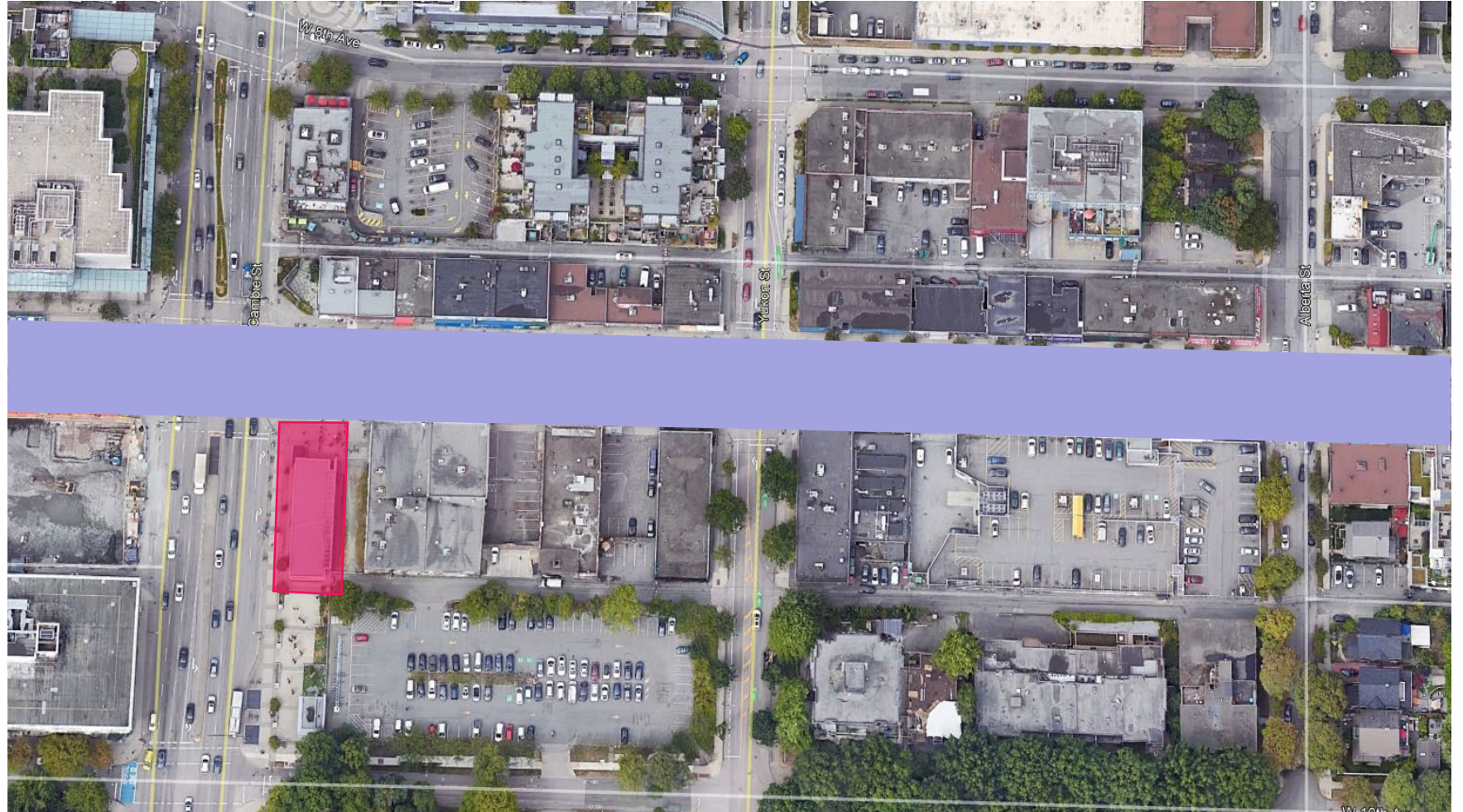


- Construction of below ground and above ground Station works

Restoration of the Surface 2024-25

Legend:

- Open traffic flow
- Completed Station Entrance



- Backfill the underground station
- Removal of the traffic deck
- Re-pave road surface
- Detours removed and traffic returns to the new normal

Train Track Construction 2024



- Track construction works begin

Train Testing 2025



- Dynamic train testing along the tracks
- Trains operational



Traffic



Traffic Solution for Broadway-City Hall

Benefits of this approach (short-term 3 lane)

- Eliminate nighttime work for traffic deck installation
- Shorter duration of traffic deck installation, less disruption
- Westbound traffic metered by Mt. Pleasant so traffic volumes lower at Broadway-City Hall
- Predictable and stable traffic pattern for road users
- Nighttime traffic patterns will be consistent with daytime work

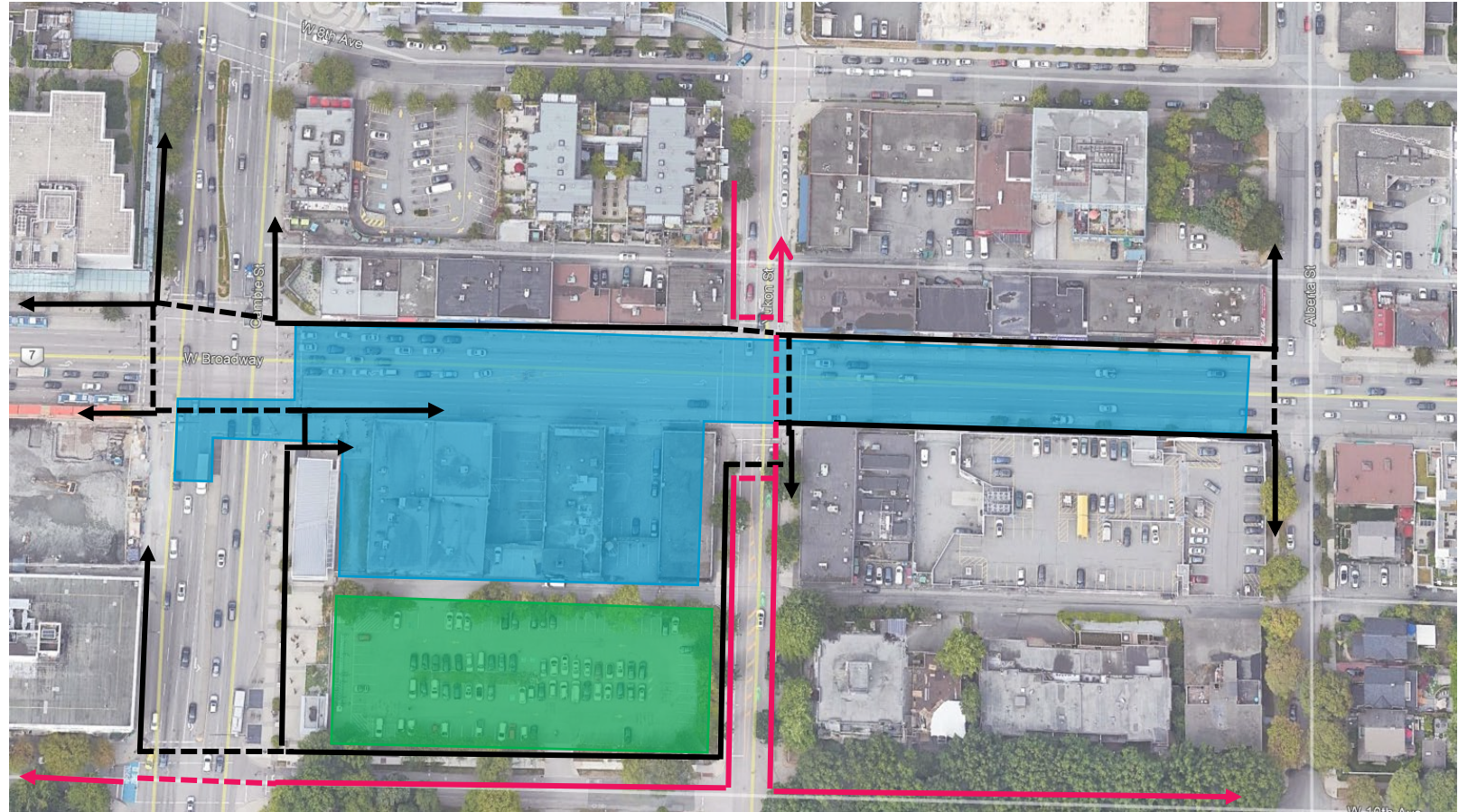
What to expect: Commuter Traffic

We are committed to mitigating impacts throughout construction

- 3 lanes of traffic, two eastbound and one westbound, will be operational while the traffic decking is installed at the beginning of construction
- 4 lanes of traffic following traffic deck installation
- Short-term lane closures for utility relocation works in surrounding areas
- Traffic signals modifications will be required at Cambie St., Yukon St., and Alberta St. intersections on Broadway to accommodate lane re-alignment
- Bus routes 99, 009 and N9 will be maintained in front of Broadway-City Hall Station for access to existing Canada Line. There will be temporary bus stops relocation during traffic deck construction

What to expect: Pedestrians and Cyclists

- Sidewalk on the northside of Broadway will be maintained
- Station entrance, bus stop and sidewalk remain open
- Pedestrians will be detoured around the site with signage
- Flaggers will be available to direct pedestrians
- “Broadway is Open” signages to inform pedestrians



Legend

- | | |
|-----------------------------|--------------------------|
| → Pedestrian path | → Cyclist route |
| - - -> Pedestrian crosswalk | - - -> Cyclist crossroad |



Mitigation Measures



Vibration Management

Project will adhere to guidelines related to vibration from construction activities and monitor vibration levels

Here are activities that may result in some vibration:

- Demolition of structures and pavement
- Shoring works for future station and tunnel
- Tunnel Boring
- Building the traffic deck

Noise Management

- Project will adhere to City of Vancouver noise bylaw levels
- Construction activities that generate the most noise will be carried out during core hours:
 - 07:00 a.m. to 8:00 p.m. Monday-Saturday
 - 09:00 a.m. to 8:00 p.m. Sunday/Statutory Holidays
- In 2021, we expect minimal noise during the night

Dust Control

- Water spray to reduce generation of fugitive dust during dry seasons
- Sweep and clean paved surfaces to remove build-ups of sand and dirt

Light Management

- Task-specific lighting will be used, large area lighting will be minimized
- Physical barriers (temporary sound walls and site hoardings) will limit light spills
- Existing street lighting conditions will be maintained for traffic



Being a good neighbour



Ongoing Communications

The Project will maximize predictability and manage disruption as much as possible

- Timely information about construction, traffic and parking
- Notifications by email, newsletter, website and direct contact
- Clear signage at point of construction activities
- Where possible, mitigate construction impacts and manage issues as they arise
- Maintain business visibility and help customers access shops and services

Business Advisory Signage

- Comprehensive, temporary wayfinding signage program
- Ensures access and visibility during construction



Parking Map



Connect with us



24/7 Construction Line: 1-844-815-6114



broadwaysubway@gov.bc.ca



broadwaysubway.ca



Community Office: 1212 West Broadway
778-572-3544



**Dedicated Segment Manager and
Business/Community Relations Manager**
for day-to-day contact

Questions and Comments

