

Mountain Highway Interchange Project

Welcome to the Highway 1 at Mountain Highway Interchange Project Open House

Purpose of Open House

To provide you with information regarding the Highway 1 at Mountain Highway Interchange Project and the opportunity to provide your input into the development of this project.

We Want to Hear From You

Provide us with your feedback by:

- Completing a comment form and leaving it with our team
- Sending an email to lowerlynn@gov.bc.ca by February 5, 2016



Mountain Highway Overpass – looking north towards Arborlynn Drive

The Province of B.C. and the Government of Canada are investing \$36 million in the Mountain Highway Interchange, which is the first of three phases for overall Lower Lynn Improvements totalling \$150 million.

Mountain Highway Interchange Project



Highway 1 – Lower Lynn Improvements

The Province of B.C., the District of North Vancouver, and the Government of Canada are investing \$150 million in three phases of Highway 1 – Lower Lynn Improvements.

The overall Lower Lynn Improvements:

Phases	Project	Sponsor	Status
Phase 1	Keith Road and Bridge Expansion	<ul style="list-style-type: none">• District of North Vancouver	Completion 2016
Phase 1	Mountain Highway Interchange	<ul style="list-style-type: none">• BC Ministry of Transportation Infrastructure• Government of Canada	Detailed Design (2016)
Phase 2	Lillooet Road (Fern St) Interchange	<ul style="list-style-type: none">• BC Ministry of Transportation Infrastructure• Government of Canada• District of North Vancouver	Functional Design (2017)
Phase 3	Dollarton Highway Interchange/ Crown Street Pedestrian Overpass	<ul style="list-style-type: none">• BC Ministry of Transportation Infrastructure• Government of Canada• District of North Vancouver	Functional Design (2018)
Phase 3	Mountain Highway to Lillooet Road Connector	<ul style="list-style-type: none">• District of North Vancouver	Concept Development

The anticipated completion date for the overall Lower Lynn Improvements is spring 2021.

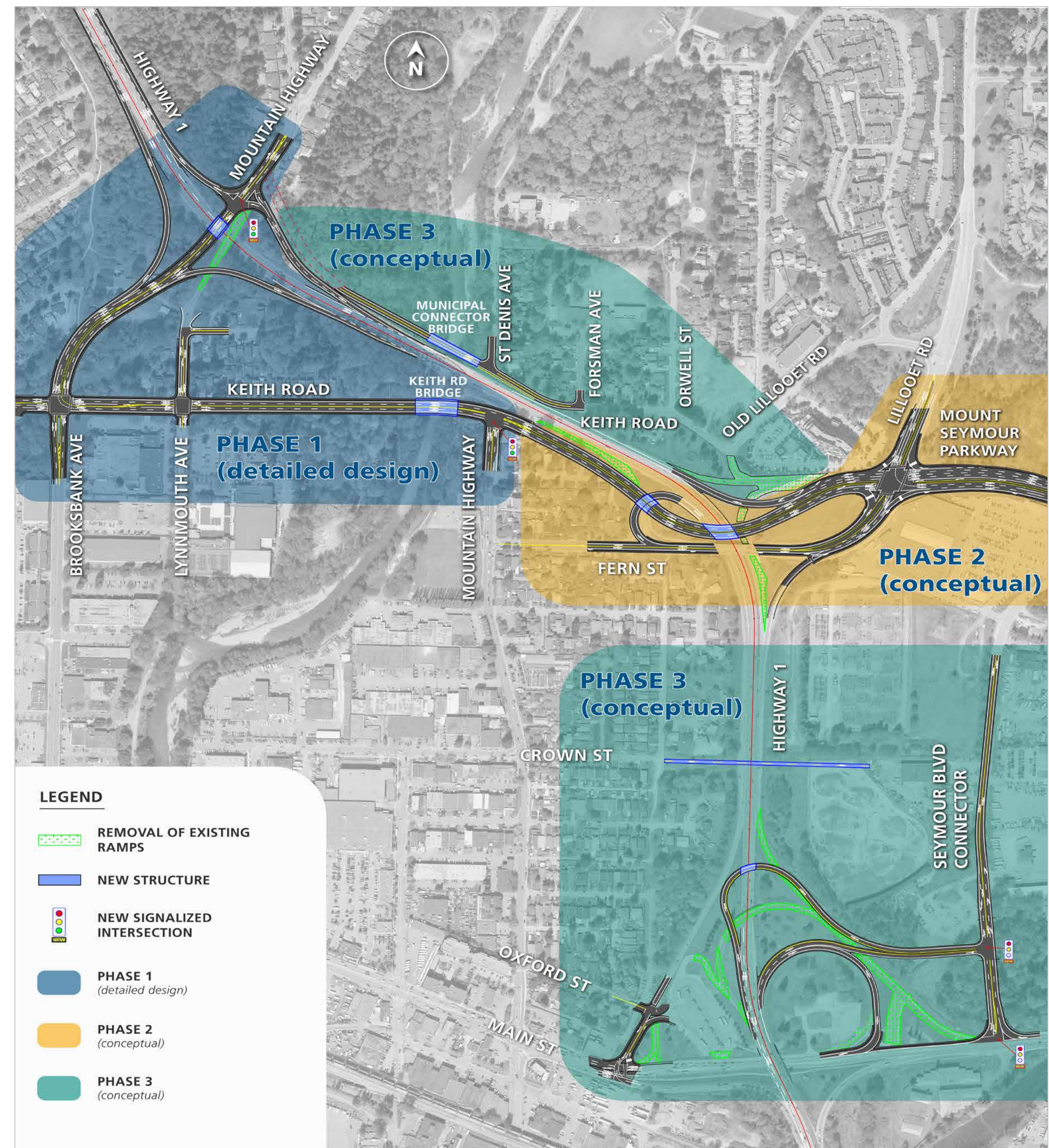
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Highway 1 – Lower Lynn Improvements

Mountain Highway, Lillooet Road (Fern Street) and Dollarton Highway Interchanges will be upgraded over three phases, which are to be completed by spring 2021.

In addition to the upgraded interchanges, the District of North Vancouver is expanding Keith Road and the Keith Road Bridge and is planning to build a connector road between Mountain Highway and Lillooet Road.

Each phase of Lower Lynn Improvements are being designed to operate together to provide the best overall traffic movement and upgraded pedestrian and cycling facilities. There will be further opportunities to provide input regarding Phases 2 and 3 of the Lower Lynn Improvements.



Causes of Congestion

The North Shore's Lower Lynn interchanges were designed and built over 50 years ago and are in need of upgrades or replacement. Recent Lower Lynn traffic studies found that the interchange configurations and their close proximity to each other create traffic weaving, short merge distances, narrow shoulders and lane drop-offs.

These are causing highway inefficiencies at key points, such as the Mountain Highway Interchange where peak hour average driving speeds are 25-35 km/h, which hampers the flow of traffic on Highway 1 and surrounding municipal roadway network.

Replacement and reconstruction of the interchanges are also necessary to accommodate future Highway 1 improvements.

Highway 1 Average Speeds

Eastbound Traffic – 2015 AM/PM Peak Hour



Mountain Highway Interchange Overview

The Ministry of Transportation and Infrastructure and the Government of Canada are partnering in the design and construction of a new interchange at Highway 1 and Mountain Highway.

The new interchange will consist of the following key components:

1. Construction of on/off ramps in all four quadrants
2. Signalization at both ends of the new structure to provide the safe movement of traffic on and off Mountain Highway
3. Replacement of the existing two-lane Mountain Highway underpass with a new four-lane structure
4. Full intersection at Keith Road/Brooksbank Ave/Mountain Highway
5. New realigned Mountain Highway

The design will include overall improvements and expansion of facilities for alternate modes of transportation.



Project Overview

Why build the Mountain Highway Interchange?

The Mountain Highway Overpass is over 50 years old and is being upgraded as part of the Province's commitment to "Improving Highway Capacity and Reliability" in *B.C. on the Move: A 10-Year Transportation Plan*. Upgrades to this interchange will:

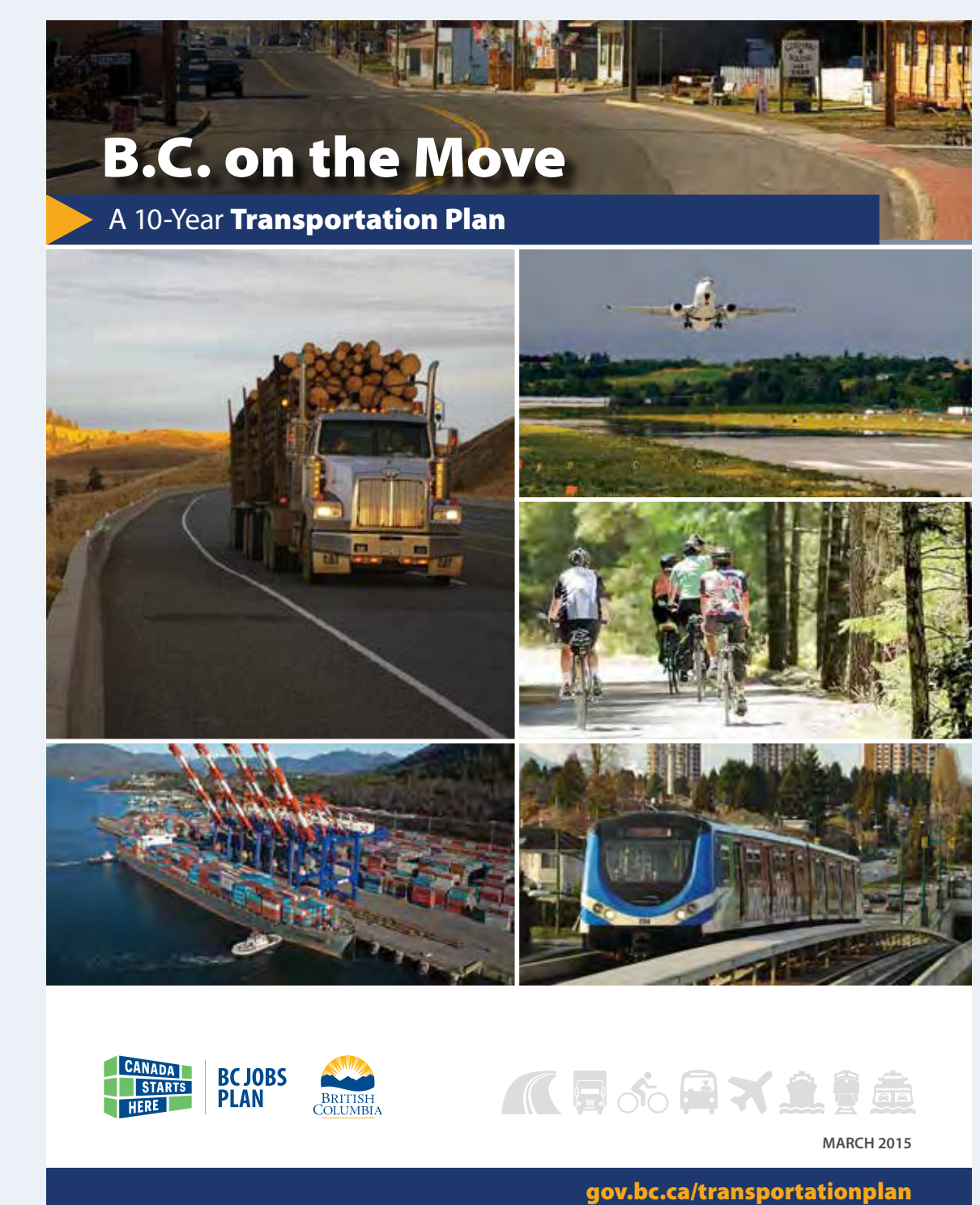
- ✓ Improve traffic flow during peak times, reducing travel times for commuters
- ✓ Support better connection between municipalities to support the local economy
- ✓ Promote other modes of transportation through improved pedestrian and cycling facilities
- ✓ Improve access to Highway 1
- ✓ Improve fish and wildlife habitat in the area through environmental and drainage enhancements
- ✓ Improve safety by upgrading design to current engineering standards
- ✓ Help reduce traffic incidents through safety improvements to Mountain Highway and Keith Road
- ✓ Enable future improvements to Highway 1

B.C. on the Move: A 10-Year Transportation Plan

B.C. on the Move is the Government of B.C.'s 10-year plan for the improvement of the province's transportation network.

The plan was released in spring 2015 and was developed by government with input gathered during an extensive engagement process in fall 2014. The engagement included a public survey that drew over 12,500 responses from throughout B.C.

More information can be found: engage.gov.bc.ca/transportationplan/



Considerations

What does the Project need to consider?

- Minimizing impacts to park land and private property
- Protecting and enhancing Keith Creek
- Salop Trail expansion and connections
- Improving the cycling and pedestrian facilities
- Improving safety for all modes of transportation
- Accommodating residential access along Keith Road
- Planning for future improvements to Highway 1
- Construction impacts to neighbouring communities
- Continuation of transit services

We Want to Hear From You

Are there other considerations you think we should be aware of?



Keith Creek

Benefits

Improved safety

- ✓ Left turn signal at the westbound off-ramp and Mountain Highway
- ✓ Four-laning and reduced grade on the new Mountain Highway structure
- ✓ New bike lanes and protected multi-use paths
- ✓ Improved sight lines on Highway 1
- ✓ New LED lighting on the new interchange

Improved traffic flow

- ✓ Eastbound off-ramp to be extended about 100 metres up the cut, reducing congestion
- ✓ Three additional ramps to provide more travel options for drivers
- ✓ Direct north/south connectivity with new realigned Mountain Highway
- ✓ Improvements to local traffic flow with less congestion and fewer delays on local roads

Improved travel time

- ✓ Brooksbank Avenue to Mount Seymour Parkway travel time is expected to be reduced by 50% during peak times

Improved bike and pedestrian facilities

- ✓ Addition of approximately 1.8 km of bike and pedestrian facilities along the Mountain Highway Interchange

Improved habitat

- ✓ Habitat improvements include the rehabilitation of Keith Creek and riparian planting of native species



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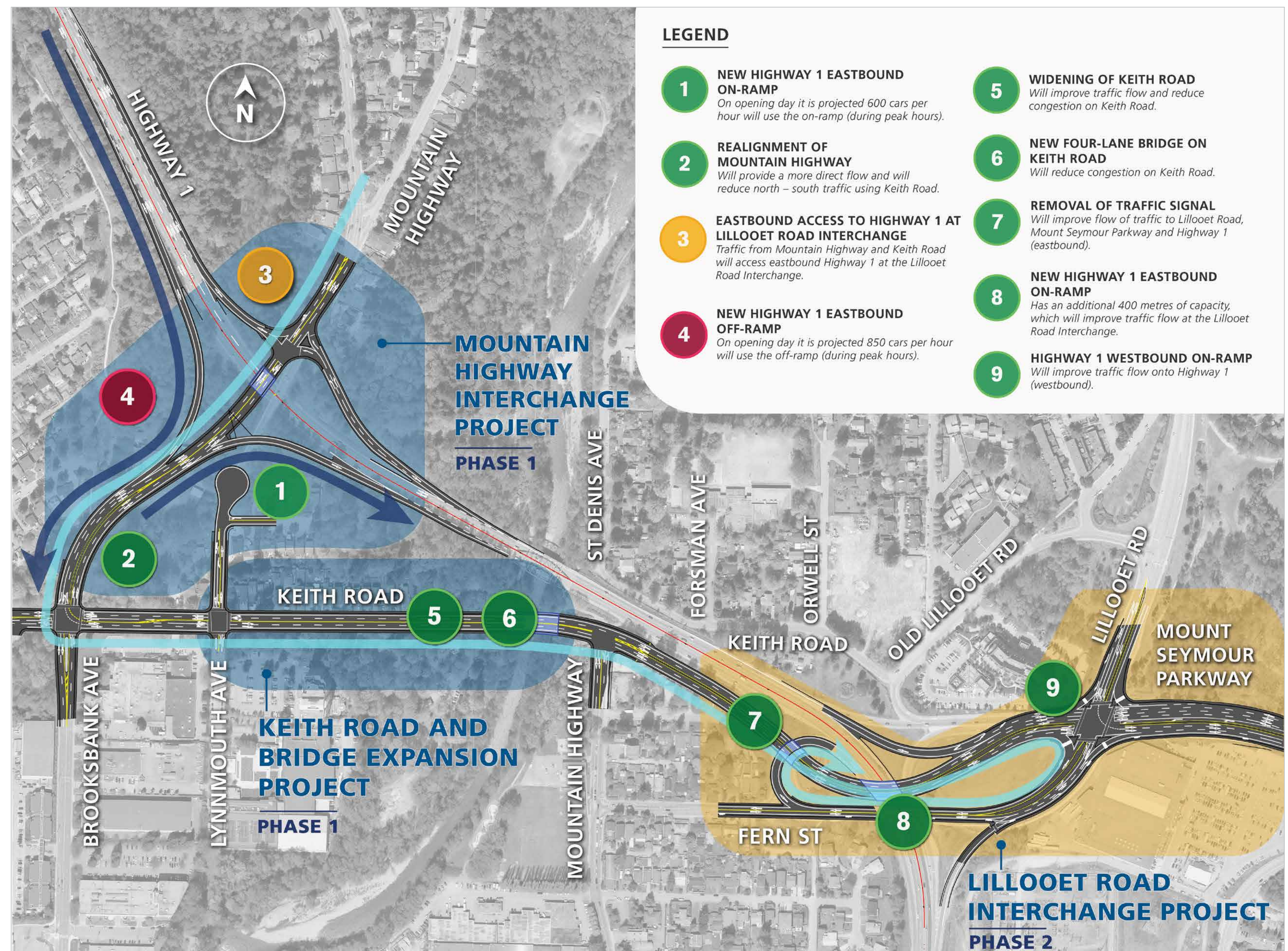
Improved Traffic Flow on Municipal Roads

The Highway 1 – Lower Lynn Improvements, in addition to District of North Vancouver road upgrades, will improve traffic flow and result in less congestion and fewer delays on municipal roads.

Once the improvements are in place, it is expected that travel times from Brooksbank Avenue to Mount Seymour Parkway will be reduced by 50% at peak times.

Changes to traffic flow on municipal roads will take place in two phases.

See legend in the map.



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Pedestrian, Cycling and Transit

The Mountain Highway Interchange Project will result in improved bike and pedestrian facilities, including a protected intersection at Mountain Highway/Brooksbank Ave/Keith Road, and the addition of approximately 645 metres of multi-use pathways, 850 metres of roadway bike paths and 260 metres of sidewalk that will integrate with existing facilities. Reinstatement of impacted bus stops (4) will be done in consultation with TransLink. The overall reduction in congestion as a result of this Project will improve transit reliability.



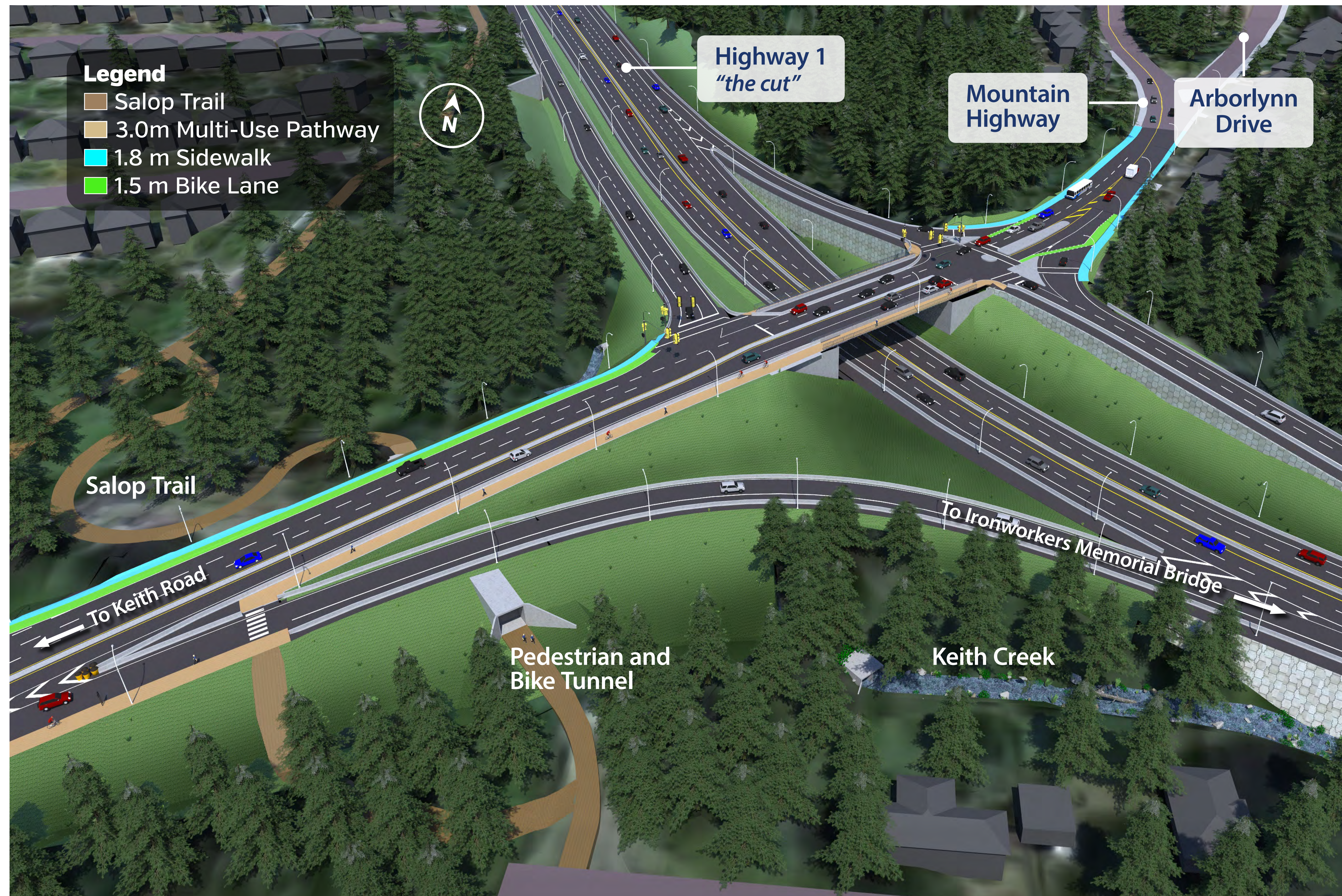
Current Conditions



Post-Construction (in development and subject to change)

Mountain Highway Interchange Project

Rendering



Looking Ahead – Construction

Construction on the Mountain Highway Interchange Project is scheduled to start in summer 2016 and be completed by spring 2018. During construction the Ministry of Transportation and Infrastructure will work to minimize impacts to residents, commuters and the public, and ensure awareness of construction activities and traffic changes.

Public Notification

- Door-to-door visits or letter notices delivered to nearby residents to provide notification of upcoming construction activities
- Road-side message boards with traffic information
- Traffic notification advertisements in local papers
- Project website updates and Drive BC traffic information

Construction Noise

- Construction hours will be mostly limited to noise bylaw restrictions
- Advance notice will be given to nearby residents for activities requiring night-time work

Traffic Management

- Minimize impacts to commuters with restrictions to lane closures and work hours
- Existing Mountain Highway will remain open to traffic until the new Mountain Highway is completed



Mountain Highway Overpass – looking south towards Keith Road

Mountain Highway Interchange Project



Next Steps

- Consider input from this engagement
- Continued engagement with key stakeholders, residents and First Nations
- Complete detailed design including:
 - Traffic engineering
 - Habitat enhancement design
 - Geotechnical engineering
 - Structural engineering
 - Pedestrian and cycling facilities design
 - Drainage engineering
 - Electrical engineering and utility relocation

Thank You for Coming!

Please remember to provide us with your feedback by:

- Completing a comment form and leaving it with our team
- Sending an email to lowerlynn@gov.bc.ca by February 5, 2016

Mountain Highway Interchange Schedule

	2014	2015	2016	2017	2018	2019	2020	2021
Highway 1 at Mountain Highway								
Functional Design		➔						
Detailed Design			➔					
Tender and Construction				➔				

