

Appendix 2: Engagement Materials and Feedback Form

April 2016



Welcome to the McKenzie Interchange Project Open House!

Purpose of the Open House

- To provide you with an update on how project designs have been revised based on input received in fall 2015
- To seek feedback regarding refined options

We Want to Hear From You

Provide us with your feedback by:

- Completing a feedback form and leaving it with our team
- Filling out the online feedback form at engage.gov.bc.ca/mckenzieinterchange by March 18, 2016
- Sending an email to mckenzieinterchange@gov.bc.ca by March 18, 2016



Congestion on the Trans-Canada Highway

The Province of B.C. and the Government of Canada are investing \$85 million in the McKenzie Interchange Project, a new interchange on the Trans-Canada Highway at the intersection with Admirals Road and McKenzie Avenue in Saanich.



Project Need and Benefits

The project is needed to improve safety, congestion and reliability

- The intersection has a collision rate almost three times the provincial average
- The number one bottleneck on Vancouver Island
- Unpredictable travel times affect transit service levels and commuters

Project benefits will include:

- Reductions in frequency and severity of crashes
- Substantial travel time savings
- Improved transit facilities, including bus-on-shoulder lanes
- Improved travel time reliability
- Reductions in idling and fuel consumption, leading to significantly lower greenhouse gas emissions
- Improved cycling and pedestrian safety, by separating the Galloping Goose Trail from McKenzie Avenue



Congestion on the Trans-Canada Highway

For these reasons, the McKenzie Interchange Project was identified as a priority in B.C. on the Move, the Province of B.C.'s ten-year transportation plan.



Current and Future Traffic Volumes

Current Traffic Volumes (2015)

- West of McKenzie intersection, the Trans-Canada Highway carries an average of 80,000 vehicles per day
- Traffic volumes far exceed capacity

Future Traffic Volumes (2038)

 West of McKenzie Interchange, the Trans-Canada Highway is forecasted to carry over 96,000 vehicles per day

2015 Traffic Volumes



Inbound traffic destinations (2015)



Outbound traffic origins (2015)



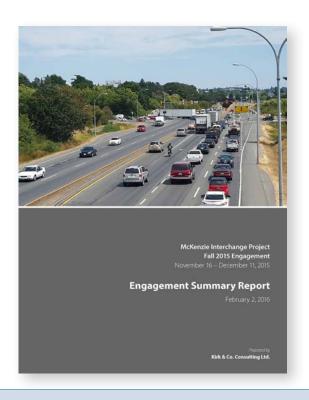
Fall 2015 Public and Stakeholder Engagement

Participation

- 610 people attended the open house on November 17, 2015
- 1,059 feedback forms (hardcopy and online)
- 139 email and phone submissions

Summary of Key Feedback

- · Provide an interchange that operates efficiently
- Address congestion at the McKenzie and Burnside intersection
- Ensure the project accounts for future forecasted traffic
- Improve safety at the intersection
- Ensure good pedestrian and cycling connections
- Ensure the project design accommodates and encourages transit use
- Protect Cuthbert Holmes Park and other environmental values
- Ensure solution incorporates current and future transit needs
- Address neighbourhood issues including short-cutting traffic
- Maintain traffic flow during construction



Take a copy of the Fall 2015 Engagement Summary Report or read online at engage.gov.bc.ca/mckenzieinterchange



Interchange Design Options

What did we hear in fall 2015?

- Provide an interchange that operates efficiently
- Strong support for Trans-Canada Highway going under McKenzie/Admirals
- Suggestions of alternative design options

What are we doing?

- Two of the three design options presented in fall 2015 have been carried forward for further consideration
- Option 3 was eliminated due to concerns regarding noise, visual impacts, extended construction schedule and cost
- Alternative design options were considered against effectiveness of mitigating existing issues (safety, congestion, reliability) within the \$85 million budget and have not been carried forward

Option 1: Diamond Interchange



Option 2: Partial Cloverleaf



Options 1 and 2 have been refined based on additional technical work and engagement feedback.

In both options, the Trans-Canada Highway goes under McKenzie/Admirals.



Option 1: Diamond Interchange





Option 1: Diamond Interchange





Option 2: Partial Cloverleaf





Option 2: Partial Cloverleaf





Improvements on McKenzie Avenue at Burnside Road

What did we hear in fall 2015?

 Concerns that the project did not adequately address congestion and queuing on McKenzie

What are we doing?

- Proposing to add an additional southbound lane on McKenzie through the Burnside intersection, combined with a dual right-turn lane to the Trans-Canada Highway westbound
- These improvements would apply to either Option 1 or Option 2

Combined, these improvements would:

- Significantly reduce southbound queues on McKenzie
- Improve merging onto the Trans-Canada Highway from McKenzie
- Reduce queues on Burnside
- Reduce short-cutting traffic on municipal roads by attracting vehicles to McKenzie and the Trans-Canada Highway



What else did we consider?

- Westbound on-ramp to the Trans-Canada Highway from Burnside near Interurban
- Full and partial grade separation at McKenzie/Burnside
- Turning restrictions at McKenzie/Burnside
 It was determined that the proposed additional southbound lane and dual right-turn lane would provide greater benefits to reducing congestion at a cost that fit within the \$85 million budget.



Transit Facilities

What did we hear in fall 2015?

- Facilitate and encourage transit use
- Accommodate possible future light rail transit (LRT)

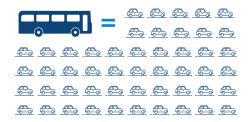
What are we doing?

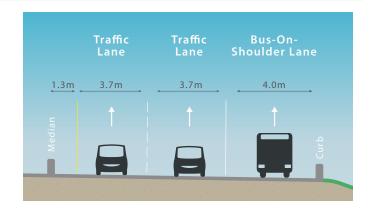
- Bus-on-shoulder lanes
- Transit stop locations, coordinated with cycling and pedestrian facilities
- Transit signal pre-emption
- Does not preclude a corridor for future LRT on the north side of the Trans-Canada Highway
- Alignment with BC Transit's Victoria
 Transit Future Plan

Bus Rapid Transit

- The Trans-Canada Highway is identified as a future rapid transit corridor serving travel between the West Shore and downtown Victoria and the University of Victoria
- The project will support Bus Rapid Transit (BRT) facilities, as services are increased in the future
- Bus on shoulder lane and queue jumper priority lanes at ramp intersections will allow buses to bypass queues and provide more reliable service
- Attractive and fully accessible pedestrian connections to comfortable bus stops with shelters will be provided

Each full bus takes up to **50 Cars** off the road







Transit Facilities

Transit routing and stop locations would be similar for both Options 1 and 2, as shown below.



Option 1: Diamond Interchange



Transit stop locations, coordinated with cycling and pedestrian facilities

Rapid transit route



Option 2: Partial Cloverleaf



Pedestrian and Cycling Facilities

What did we hear in fall 2015?

- Provide safe and separated facilities
- Support for above-ground pathways (not tunnels)
- Gentle grades on pedestrian and cycling overpasses
- Ensure good pedestrian and cycling connections

What are we doing?

- Galloping Goose Trail is going over McKenzie Avenue
- Gradual grades will not exceed 4%
- Moved the existing Trans-Canada Highway overpass closer to McKenzie to provide safer and more convenient access
- With the provision of a separate pedestrian overpass, sidewalks will not be provided on the vehicle overpass
- Shoulders throughout project area may be used by cyclists
- Ongoing discussions with stakeholders around details of future paths and structures
 - Grades
 - Widths
 - Alignment

- Connections with municipal roads
- Intersections







Pedestrian and Cycling Facilities

Pedestrian and cycling facilities would be similar for both Options 1 and 2, as shown below.





Option 1: Diamond Interchange



Option 2: Partial Cloverleaf



Managing Impacts to Cuthbert Holmes Park

What did we hear in fall 2015?

 Minimize impacts to Cuthbert Holmes Park, Colquitz Creek and other environmental values in the project area

What are we doing?

- There would be no net loss of park area in either Option 1 or 2
- Engaging with the District of Saanich and other stakeholders as we develop a comprehensive mitigation plan
- The plan will be consistent with the District of Saanich's approved Cuthbert Holmes/Tillicum Park Management Plan and will include:
 - Reinstating park trails
 - Managing invasive plants within the project area
 - Improving storm water quality
 - Developing a Landscape Management Plan
 - Re-establishing vehicle access and parking





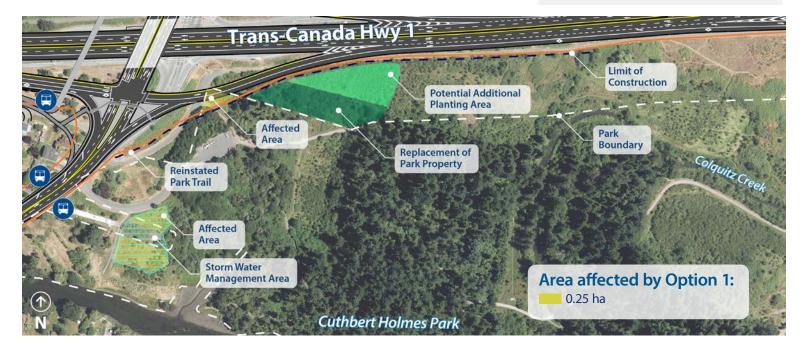
Managing Impacts to Cuthbert Holmes Park – Option 1

Mitigation measures:

- Replacement of affected park property with Ministry of Transportation and Infrastructure right-of-way and replanting: 0.25 ha
- Storm water management and treatment
- · Reinstatement of trails



Park trail adjacent to Trans-Canada Highway would be reinstated





Managing Impacts to Cuthbert Holmes Park – Option 2

Mitigation measures:

- Replacement of affected park property with Ministry of Transportation and Infrastructure right-of-way and replanting: 1.4 ha
- Storm water management and treatment
- Reinstatement of trails
- Replacement of vehicle access and parking (location to be determined)



Cuthbert Holmes Park adjacent to Trans-Canada Highway





Improving Safety for all Users

The table below shows the estimated safety benefits that the interchange would provide by 2038, compared to existing conditions.

Options 1 and 2 provide improved safety when compared to existing conditions.

Option 2 is expected to have fewer vehicle collisions as there are reduced left turn conflicts.

Both Options 1 and 2 provide significant improved connections which will keep pedestrians and cyclists away from conflict with vehicles.



Pedestrian and cycling conflicts with vehicles are eliminated with the Galloping Goose Trail separated from traffic.

Option	Current Conditions	Option 1: Diamond Interchange	Option 2: Partial Cloverleaf
Collision Rate	Almost three times Provincial average	Provincial average	Below Provincial average
Safety Benefits	Not applicable	\$26 million	\$30 million



Significant Travel Time Savings for Commuters

The table below shows the travel time savings the interchange would provide, compared to existing conditions. Options 1 and 2 would provide similar travel time savings, which is estimated to be \$188 million by 2038.



	Route	2016 (mins)	2018 (mins)	2038 (mins)
Morning	A to B	26	7.5	8.0
Peak	A to C	30	8.5	9.5
Afternoon Peak	B to A	25	7.0	7.5
	C to A	25	8.0	8.0

In both Options 1 and 2, in 2018, commuters on the Trans-Canada Highway heading towards downtown Victoria will save an average of 22 minutes in the morning and 17 minutes in the afternoon.



Ensuring Capacity for the Future

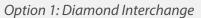
The maps below show the predicted worst-case morning and afternoon queues for each option in:

2018, when the interchange will open

2038, the 20-year planning horizon for the project

As shown below, there is less queueing predicted in Option 2.







Option 2: Partial Cloverleaf



Minimizing Travel Delays During Construction

What did we hear in fall 2015?

 Maintain current traffic flow, minimize delays and maximize predictability during construction

What are we doing?

- Objectives for traffic management during construction are:
 - Minimize disruption and maintain existing commute times
 - No increase in short-cutting traffic through neighbourhoods
 - Keep travellers informed of construction impacts
- Options 1 and 2 have comparable construction staging and delays

Keeping Travellers Informed

Regular construction updates and advance notification of specific construction activities would be provided through social media, DriveBC website (**www.drivebc.ca**) and changeable message signs.

Construction Staging

It is anticipated that construction staging would be as follows:

- 1. Construction of relocated Galloping Goose Trail
- 2. Construction of ramps to carry all Trans-Canada Highway traffic and shift McKenzie; relocation of traffic to ramps and shifted McKenzie
- 3. Excavation of Trans-Canada Highway and construction of vehicle overpass and highway
- 4. Construct new north-south pedestrian overpass and decommission existing pedestrian overpass





Option Considerations

Consideration	Option 1: Diamond Interchange	Option 2: Partial Cloverleaf		
Safety	• \$26 million in savings	• \$30 million in savings		
Travel Time	Comparable – \$188 million in savings			
Transit	 Comparable – includes bus-on-shoulder lanes and 	d does not preclude future light rail transit		
Cyclists and Pedestrians	Comparable – provides safe and separate cycling a	and pedestrian facilities		
Cuthbert Holmes Park	 0.25 hectares of park impacted Impacted lands to be replaced by highway right-of-way All impacted lands would be mitigated 	 1.4 hectares of park impacted Impacted lands to be replaced by highway right-of-way All impacted lands would be mitigated 		
Opening Day (2018)	 No queues for highway traffic Moderate left turn traffic queues on Trans-Canada Highway eastbound off-ramp onto McKenzie, clearing every cycle 	 No queues for highway traffic No queues for left turn traffic onto McKenzie 		
Future Capacity (2038)	 No queues for highway traffic Extended queues for left turn traffic, still contained to ramp 	 No queues for highway traffic No queues for left turn traffic onto McKenzie 		
Construction Management	Comparable – maintain existing commute times			
Cost	• \$3–5 million less costly than Option 2 • \$3–5 million more costly than Option 1			



Next Steps

- Consider input from this engagement period and from other stakeholder groups and First Nations
- Select preferred interchange design option
- Complete detailed design of selected option to determine:
 - Noise mitigation (baseline monitoring complete)
 - Detailed environmental mitigation strategy
 - Detailed construction management plan

Thank You for Coming!

Please remember to provide us with your feedback by:

Completing a feedback form and leaving it with our team

Filling out the online feedback form at engage.gov.bc.ca/mckenzieinterchange by March 18, 2016

Sending an email to mckenzieinterchange@gov.bc.ca by March 18, 2016





The McKenzie Interchange Project is a new interchange on the Trans-Canada Highway at the intersection with Admirals Road and McKenzie Avenue in Saanich. The intersection is the number one bottleneck in the province outside of the Lower Mainland.

The McKenzie Interchange Project will improve traffic flow of passenger, transit and goods movement vehicles and reduce collisions and congestion-related impacts to the economy, environment and public health.

The input that you provide will be considered, along with technical and financial information, as we design the McKenzie Interchange Project.

Please provide your feedback by March 18, 2016.

Feedback Form

1a.	Please rate your level of agreement with Option 1: Diamond Interchange with Trans-Can	ada
	Highway Under McKenzie/Admirals.	

Strongly Agree	Somewhat Agree	Neither Agree Nor Disagree	Somewhat Disagree	Strongly Disagree
0	0	0	0	0

1b.	Please provide your reasons for your level of agreement.



Strongly Agree	Somewhat Agree	Neither Agree Nor Disagree	Somewhat Disagree	Strongly Disagree			
0	0	0	0	0			
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Thank you for your input!

Public and stakeholder engagement are essential to the success of this project, which benefits from the knowledge and experience of those who travel in the McKenzie Interchange Project area.

Privacy Policy

Personal information collected through this survey will inform the McKenzie Interchange Project under the authority of s.26 of the *Freedom of Information and Protection of Privacy Act*. If you have any questions about the collection, use and disclosure of your personal information, please contact:

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