

# Construction Update: Grandview Highway Interchange

As part of the Port Mann/Highway 1 (PMH1) Improvement Project, interchanges throughout the Highway 1 corridor will be upgraded or replaced to improve safety and efficiency. At Grandview Highway, new HOV on- and off-ramps will provide significant improvements to traffic flow and efficiency on Highway 1 and at the busy intersection of Grandview Highway and Boundary Road on the border of Vancouver and Burnaby.

In total, more than 20 interchanges will be replaced or upgraded as part of the PMH1 Project including at nearby Willingdon Avenue. For more information, including details regarding other interchange upgrades, please visit [www.pmh1project.com](http://www.pmh1project.com).

## Improving Safety and Traffic Flow

The section from Boundary Road to the Sprott Street overpass is the busiest section of the Highway 1 corridor carrying more than 140,000 vehicles per day. A number of Burnaby's major north-south roads cross the highway within this area, including Boundary Road, Willingdon Avenue and Gilmore Avenue.

The existing interchanges at Grandview Highway and Willingdon Avenue are located in close proximity to each other, with

Grandview's eastbound on-ramp ending just before the Willingdon southbound off-ramp.

This configuration leads to traffic weaving and associated safety issues as vehicles merge on and off the highway. This traffic weaving is a significant safety issue, contributing to a higher accident rate in this area compared to other sections of highway.

## New HOV Ramps and Highway Lanes

Once complete, new dedicated HOV ramps to and from Highway 1 will be open to motorists, to encourage carpooling and reduce congestion. A new, fly-over HOV on-ramp from Grandview will separate eastbound HOV traffic from general-purpose traffic, reducing weaving. A new HOV off-ramp will separate traffic in the westbound direction.

Improvements will also be made to the existing on- and off-ramps for general-purpose traffic. Ramp enhancements will be complemented by an additional highway lane in each direction starting at McGill Street. The new lanes will provide more space for Highway 1 through-traffic and general-purpose traffic travelling to and from Grandview Highway, allowing vehicles to change lanes and merge safely.



This graphic of the current configuration shows the limited space between the Grandview Highway on-ramp and the Willingdon Avenue Interchange. This configuration can lead to increased congestion and contributes to a high accident rate for the area.



**Long-term improvements to the Grandview Highway Interchange include:**

1. New dedicated HOV ramps to and from Highway 1 to encourage carpooling and reduce congestion
2. Improvements to existing on-ramps for general purpose traffic
3. Improved safety and traffic flow
4. New left-hand turn lanes off Grandview to Boundary Road northbound and southbound
5. New multi-use path

6. Noise mitigation at these locations:
  - A Grandview Highway at Esmond
  - B Grandview Highway on-ramp
  - C Manor Street
  - D Extension of existing noise wall at Myrtle Street

**Legend**

- Noise Wall
- Multi-Use Path
- Sidewalk
- Highway 1
- Willingdon Avenue Improvements

## Intersection Improvements

Additionally, there will be new left turn lanes at Grandview Highway and Boundary Road, which will significantly increase the number of routes available to those travelling in and around this area of Vancouver-Burnaby. Two left turn lanes will be available for Grandview Highway westbound to Boundary Road southbound and one left turn lane will be available for Grandview Highway eastbound to Boundary Road northbound.

## Local Cycling and Pedestrian Improvements

A key goal of the PMH1 Project is to improve cycling connections throughout Metro Vancouver.

Many municipal cycle routes are either already established or under development in the Vancouver-Burnaby area. Working in collaboration with local governments, the PMH1 Project will connect to these and other multi-use paths and make

improvements to cycling and walking facilities connected to Highway 1 overpass sidewalks and municipal bike lanes.

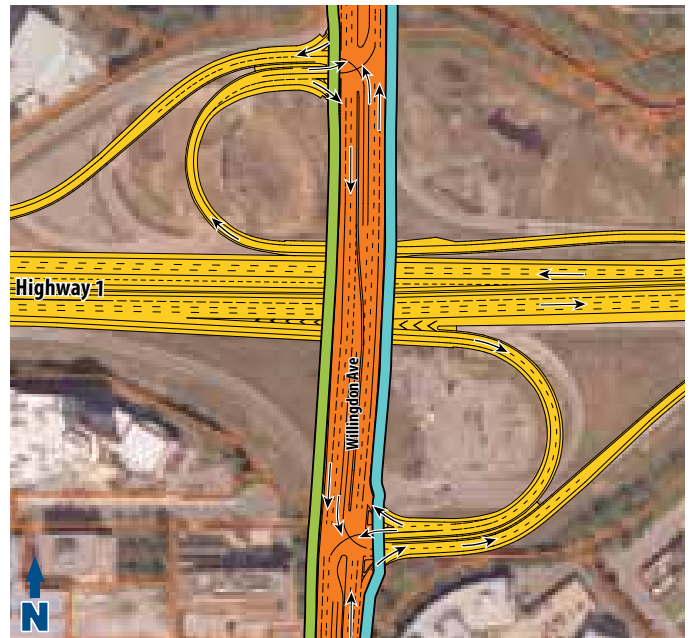
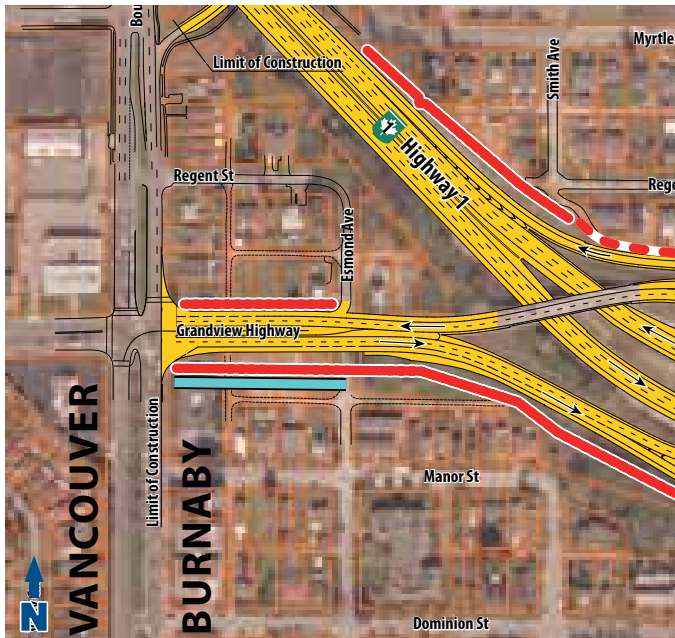
A multi-use path will be constructed along the south side of Grandview Highway to Esmond Avenue. This path is part of the City of Burnaby’s long-term plans for the area and will connect to a future path to be constructed by the City.

At Willingdon Avenue, safety will be improved for vehicles, pedestrians and cyclists. Improvements will include upgrades to sidewalks and a multi-use path.

Cycling and pedestrian improvements are also planned at the Sprott Street and Kensington Avenue overpasses.

## Construction Staging

Construction of the on- and off-ramps, as well as improvements in the Grandview Highway/Boundary Road area, will be undertaken in stages. These stages will entail some detours and rerouting of traffic to maintain traffic flow and keep delays to a minimum.



**Legend**

- Noise Wall
- Multi-Use Path
- Sidewalk
- Highway 1
- Willingdon Avenue Improvements

**Winter 2011 to Spring 2011**

- New HOV ramp construction will continue, following the recent placement of steel girders, pre-fabricated concrete deck panels and concrete deck pours. Upcoming work on these ramps includes construction of supporting and retaining walls.
- A traffic pattern shift will come into effect for the Highway 1 westbound lanes at Grandview Highway. This permanent shift of the lanes to the south will allow work to continue on the westbound off-ramp, as well as to construct supporting walls.
- A Highway 1 westbound off-ramp to Grandview Highway shift will come into effect, 400 metres to the east of the existing off-ramp. The new ramp will create space for crews to continue constructing the westbound HOV ramp. This will be in place for approximately six months.
- Grandview Highway widening between Boundary Road and Highway 1 will begin.

**Summer 2011**

- Construction will continue on the new HOV ramps and on-and-off-ramp lanes.
- Highway 1 westbound off-ramp traffic will shift to new off-ramp lanes located to the west of the temporary off-ramp exit to allow crews to continue working on the new Willingdon Avenue Interchange.

**Fall 2011**

- Grandview Highway widening and the HOV ramps will be complete while work continues along the project corridor to tie these key improvements into the rest of the highway.

**2012**

- New Boundary Road overpass construction will continue, as well as work at the Willingdon Avenue Interchange.
- Work on the Highway 1 mainline east of Gilmore Avenue will continue, including paving and tie-ins to completed structures.



Artist's rendering of the new Port Mann Bridge, looking north.

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## Improved Community Interface

Noise walls will be installed along both sides of Grandview Highway east of Boundary Road to help minimize noise from long-term highway operations (see locations on graphic on page 2).

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## The PMH1 Improvement Project

The PMH1 Improvement Project includes construction of a new Port Mann Bridge, widening the highway, upgrading interchanges and improving access and safety on Highway 1. The project spans a distance of approximately 37 kilometres from the McGill Street Interchange in Vancouver to 216 Street in Langley. The project will also provide for a Highway 1 RapidBus service, a joint initiative of the Province and TransLink, with service between Langley and Burnaby in less than 25 minutes.

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## The Gateway Program

The PMH1 Project is a key component of the Gateway Program and part of a broader provincial transportation vision that includes expansion of bus services, the addition of seven new RapidBus lines, the Canada Line, the Evergreen Line, and improvements to the provincial road network.

Together, these projects represent a balanced approach to providing environmentally, socially and economically sustainable improvements.

**For up-to-date information on traffic, road conditions and construction, visit the PMH1 Project website at [www.pmh1project.com](http://www.pmh1project.com). Contact the project team:**

**E-mail:** [info@pmh1project.com](mailto:info@pmh1project.com)

**24-Hour Call Centre:** 1-866-999-PMH1 (7641)

**Web:** [www.pmh1project.com](http://www.pmh1project.com)