

## MoTI North Shore Cycling Gaps

Name	SCOPE / BOUNDARIES	Description
HWY1 LV Rd Underpass	E21st to Morgan Road - East side.	Provide a Bikelane instead of requiring people to walk their bike on sidewalk. Connect with the existing bikelanes at each end of this segment. See Parsons' 2021-Mar Detailed design.
Intersection at Taylor Way & Marine		Full protected intersection with connections to DWV bike infrastructure planned for Marine Dr and Park Royal.
Access to Lions Gate Bridge from West Van	Southside Marine Dr from Taylor Way to LG Bridge	Protected bike path eastbound along the south side of Marine Dr from Taylor Way to LG Bridge (start of new barriers).
Capilano Road under Hwy 1	between on/off ramp intersections	Add protected bikelanes on both sides of Capilano Rd. Currently there are pinch points that force cyclists into traffic lanes in both directions: Southbound: south of the overpass, before the light. Northbound: under the north end of the overpass. See Parsons' 2021-Mar Detailed design.
Lonsdale interchange	Lonsdale Ave across highway and ramps.	Provide bike lanes on Lonsdale Ave across highway and ramps.
Taylor Way Interchange		As east and westbound cyclists must use the on & off ramps for these stretches: An eastbound bike lane is needed through the signalized intersection at Taylor Way/Hwy 1 ramps, connecting the eastbound offramp with the eastbound onramp. Also Provide Bike lanes on Taylor Way through the intersections and under the overpass. <a href="https://www.google.com/maps/@49.3373505,-123.1353131,3a,75y,67.64h,75.33t/data=!3m6!1e1!3m4!1sFORbxwdBQXbeU79VJNaQdg!2e0!7i113312!8i6656">https://www.google.com/maps/@49.3373505,-123.1353131,3a,75y,67.64h,75.33t/data=!3m6!1e1!3m4!1sFORbxwdBQXbeU79VJNaQdg!2e0!7i113312!8i6656</a>
Lower Lynn Connector	East Side of Hwy1 between Main-Dollarton and Keith/Seymour Pkwy interchanges	Upgrade the existing bike path parallel to highway between the two interchanges on the east side adding protection from highway traffic and widened to allow 2 way traffic. It will connect to the new off-street path system built with the new Interchanges, and provide an off-street connection between Capilano U/Mount Seymour parkway and Ironworkers Bridge.
Westview interchange		Provide bike lanes on Westview across highway and ramps. Provide a cross walk at the traffic lights on the south side to allow a direct connection from the separated path along the south side of highway to the west, with the ramp leading down to CNV's W 23rd bike route on the east side.
Hwy 1 Exit 0 EB	EB Hwy1 a short distance E of Exit 0 the shoulder disappears	On EB Hwy1 a short distance east of Exit 0 the shoulder disappears entirely for a short distance. A shoulder bike lane is needed here. At minimum, some shoulder width could be created by shifting lane lines so as to utilize the existing clearance space to the left of the MV lanes. A higher railing is also needed atop the concrete barrier on the right hand side to prevent cyclists from potentially falling over. <a href="#">Link to image 1</a> and <a href="#">image 2</a> .
Hwy 1 Capilano River Bridge	Sidewalks on bridge	Widen the sidewalks to allow bi-directional mixed traffic, repair the surface and ensure railings are high enough.
WB ramps at Capilano Road	Beside exit & entry on North Side of Hwy1	Repair paths along both sides of these ramps to the crossing at Capilano Road
Ferry terminal exit to Exit 0	Terminal exit to Marine Drive at Eagleridge Dr	Need protected bikelane on shoulder up to marine Dr exit (provides direct access to Spirit Trail) and also way-finding signage for Spirit trail & Hwy 1 shoulder WB plus Hwy99 NB, <a href="#">Link to image 1</a> and <a href="#">image 2</a> .
Hwy 1- Westview off-ramp	EB off-ramp to Westview	Need to complete the East-most section along the EB off-ramp at to Westview. Currently it peters out into a sidewalk and the off-ramp shoulder.
Westport Road N shoulder	Highway shoulder just east & west of interchange	The westbound shoulder has deteriorated and almost disappears just west of the intersection of Headland Dr & Westport Rd
Taylor Way	Marine Dr to Taylor Way Interchange	Protected Bikelanes on both sides, must we wide enough to pass on the uphill sections

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Hwy 1 Exit 1 WB	Counterflow bikelane on Ramp from Toll Plaza to Marine Dr/HS Bay Rd	Provide cyclist with access to the toll plaza from Marine Dr/HS Bay Rd would be appreciated and easily provided with a short counterflow bike lane. This could be done in concert with provision of a shoulder bike lane on the eastbound ramp to Hwy 99. Using the pedestrian ticket booths can be a significant hassle for a number of reasons, especially with a loaded bike.
Eagleridge Dr overpass	From Horseshoe Bay on approach to Hwy 99 EB	Provide better signage (Paint on roadway shoulder) directing cyclists to path behind barrier and provide a wider entry . <a href="#">Link to image</a> .
Horseshoe Bay Dr on-ramp to Hwy 1 EB		Shorten the raised concrete island to avoid pinching the bike shoulder. <a href="#">Link to image</a> .
Phillip Ave pedestrian tunnel	Phillips Ave to Terrace Ave	Remove the baffle gates at each end of the Philip Ave tunnel (or at least reduce them to 1). They currently prevent access to bikes with trailers and other larger mobility devices. The path from the north entrance west to Capilano Road and north to Philip Ave should be repaved and widened.
EB Exit at Capilano Road	From Hwy 1 EB exit down to Capilano Road	At the east end of the bridge, where the off-ramp begins, there is a concrete drainage swale alongside the traffic lane, forcing cyclists to share the lane with motorists. The off-ramp needs a bike lane (or shoulder) all the way down to the signal at Capilano Road. <a href="#">Link to image</a> Add a safe crossing at Keith Road. Since the Hwy is closed to cyclists east of this off-ramp, eastbound cyclist must to cross at Keith to get on DNV's W23rd bike route. This will also provide a safe connection between W23 and Capilano road. Extend the existing separated pathway on the south side of the highway between Pemberton and Westview, west to this interchange to provide a direct connection.
Sea-to-Sky Highway	Multiple locations as per report.	Improve safety as per SFU cycling safety project <a href="http://www.sfu.ca/geog/stsbikesafe/index.html">http://www.sfu.ca/geog/stsbikesafe/index.html</a> . Note this study is almost 10 years old and MoTI should survey the whole route and prepare an updated list of the current major cycling hazards.
Westbound ramps at Taylor Way	Westcot Rd to Eastcot Rd	Provide an connection from DNV bike infrastructure on Mathers Ave (at Westcot) to east of the Taylor Way interchange. Extending this route from Hugo Ray along the shoulder. <a href="https://www.google.com/maps/@49.3380877,-123.1358267,3a,75y,271.26h,99.17t/data=!3m6!1e1!3m4!1spOSznti6q-n_rv6wzSNF6A!2e0!7i13312!8i6656">https://www.google.com/maps/@49.3380877,-123.1358267,3a,75y,271.26h,99.17t/data=!3m6!1e1!3m4!1spOSznti6q-n_rv6wzSNF6A!2e0!7i13312!8i6656</a>
Lighting under Marine Dr. Bridge	Path under Marine Drive Bridges, West Side	Add lighting under these bridges as they form a key connection between Lions Gate Village + North Vancouver and the Lions Gate Bridge
Westview connector to E 24th	Westview south intersection down to W 24th	A paved ramp already exists, but it needs repairs & better railings. The dirt path to W 24th needs paving & a curb cut. The southern Westview intersection needs a crossing and bike accessible cross-ride buttons
Lions Gate Bridge Viaduct Lighting	Viaduct at north end of bridge.	Improve sidewalk lighting on viaduct at north end of bridge.
Lions Gate Bridge hazard deflection	Between traffic lanes and sidewalk for full length of bridge	Cover cable attachment points to reduce injury severity Improve/reduce bumps on bridge, especially northbound downhill Add rub rail to railings
Pemberton Heights-McKay bridge S Path	South side between Pemberton and Westview	Separated path on south side of Hwy between Pemberton and Westview has multiple deep catchment basins that a hazard and are often full of debris.
Cap Rd and Pemberton EB connector	South Side of Hwy 1, Cap Road EB onramp to path at Pemberton	The MUP on the south side of the highway between Pemberton and Westview, should be extended west to the Capilano Rd on/off ramps.
McKay bridge-Pemberton Heights N Path	North Side of Hwy1 between Westview and Edgemont	Build multi-use path along the north side of highway between the Westview shopping centre and Edgemont Blvd. Currently there is a well-used desire line that connects to short section of protected path along the highway. Extending this along the north shoulder of the highway to Lloyd Ave would provide a complete route from Westview to Taylor Way.

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21st interchange		Add protected bikelanes on both sides of 21st St under the Hwy 1 bridge, to connect with DWV bikelanes on both 21st & Skilift Rd.
Pemberton Ave pedestrian crossing	Narrow, orange spiral pedestrian overpass	Replace with a wider more accessible pedestrian+cycle overpass.
Lower Cypress Bowl road	Hwy 1 interchange to at least the look-out, and preferably the top.	Protected Bikelanes on the uphill, and preferably the downhill. A short term option would be to reallocate one of the uphill lanes during non-ski season to for uphill cycle traffic, similar to what is done in Stanley Park The corners are the areas of greatest concern as cars tend to pinch into the shoulder and have limited signlines for cyclist using the shoulder.