

APPENDIX C

All Recommended Projects
Maps and Tables



PRIORITY TABLE DIRECTORY

In addition to the high priority projects provided in Section 4 of the report, the following tables include medium and low priority projects categorized using the following shading. Maps accompanying these tables illustrate all the high, medium, and low priority project locations.

	High Priority
	Medium Priority
	Low Priority

Improvements in the **COWICHAN VALLEY TRAIL COMPLETION AND IMPROVEMENTS** layer are all high priority apart from one medium priority project.

Improvements in the **EAST ROUTE** layer include both high and medium priority projects.

Improvements in the **COMMUNITY CONNECTIONS AND EXTENSIONS** layer include high, medium, and low priority projects.

TABLE C1: COWICHAN VALLEY TRAIL COMPLETION AND IMPROVEMENTS initiative consists of eight potential improvements described briefly below. These improvements seek to improve sub-standard gaps in the existing CVT alignment. Improved CVT branded wayfinding signage to be applied throughout the route. In addition to high priority projects provided in **Section 4** of the report, this table also includes a medium priority project. The accompanying maps illustrate the medium priority projects and the high priority projects, illustrated in **Section 4** of the report.

MAP REF.	ROAD	SEGMENT	LENGTH	LOCATION	IMPROVEMENT	EXISTING CONDITIONS	IMPLEMENTATION NOTES
A	Bell McKinnon Road	Westholme Road to Herd Road	3.7 km	North Cowichan	MUP/Shoulders	One approximate 1m wide shoulder on east side of roadway. Key CVT gap	Collaborate with CVRD Hospital Project, Bell McKinnon Local Area Plan. Pursue MUP on west side of road
B	Chemainus Road	Howe Road to Crofton Road	3.7 km	North Cowichan	MUP/Shoulders	Approximate 1m shoulders with fog lines	Pursue CVT Trail with Rail opportunity east of Chemainus Road alignment
C	Chemainus Road	Crofton Road to Mt. Sicker Road	1.7 km	North Cowichan	MUP/Shoulders	Approximate 1m shoulders with fog lines	Pursue CVT Trail with Rail opportunity east of Chemainus Road alignment
D	Arroyo Road, Christie Road	Christie Falls Trailhead to Christie Road., Christie Road. to Strathcona Road, 2nd Avenue. to Symonds Road	2.8 km	Electoral Area H	Wayfinding Signage and Share Road Signage	Inadequate wayfinding for TCT and CVT. Moderate to low existing vehicle volumes allow for retained road cross section	Add 'Share the Road' signs and branded wayfinding
E	Cowichan Valley Trail	CVT through Ladysmith, intersection of Christie and Strathcona to Chemainus Road and Davis Road	2.2 km	Ladysmith	Wayfinding Signage and Complete Streets	The on-going Ladysmith Active Transportation Plan will recommend an active transportation network in Ladysmith including a north-south route through the community	A primary north-south route should be supported with wayfinding for CVT connectivity through Ladysmith
F	Westholme Road	Mt. Sicker Road to Bell McKinnon Road	3.0 km	North Cowichan	MUP/Shoulders	No shoulders or fog lines. Missing CVT link	Add 'Share the Road' signs. Widen shoulders and/or MUP
G	Water Line MUP	Johnston Road to Somenos Road	7.5 km	North Cowichan	MUP	Water line, no trail or through route	Potential for Water Main line and/or Rail line MUP alignment from Chemainus Road and Howe Road intersection south to Friendship Trail
H	Herd Road, Cowichan Valley Highway, Somenos Road, Johnson Road	Bell McKinnon Road west across TCH to CVT	2.5 km	North Cowichan	MUP/Shoulders and Wayfinding Signage	Approximate 1m shoulders on Cowichan Valley Highway. No shoulders or fog lines on Somenos Road. Missing CVT link	Add 'Share the Road' signs. Widen shoulders and/or MUP on Cowichan Valley Highway and Somenos Road. Add wayfinding on Johnson Road

TABLE C2: EAST ROUTE scored second highest in priority rankings. This initiative consists of 18 improvements, which are described below. This potential route compliments the CVT, which traverses west to Lake Cowichan by providing a north-south route that retains a predominately East of Trans-Canada Highway alignment, connecting Chemainus, Crofton, Maple Bay, Duncan, Cowichan Bay, Cobble Hill, Shawnigan Lake and Mill Bay. East Route-specific wayfinding signage is to be applied throughout the route. In addition to the high priority projects presented in **Section 4** of the report, this table includes medium priority projects. The accompanying maps illustrate the medium priority projects and the high priority projects illustrated in **Section 4** of the report.

MAP REF.	ROAD	SEGMENT	LENGTH	LOCATION	IMPROVEMENT	EXISTING CONDITIONS	IMPLEMENTATION NOTES
I	Shawnigan Lake Mill Bay Road	Shawnigan Lake Village to TCH	5.3 km	Electoral Areas A, B	MUP/Shoulders	Ongoing work program of improved shoulders and segments of MUP	Complete work program initiated in 2022 to improve shoulders and segments of MUP
J	Tzouhalem Road	Trunk Road to Maple Bay Road	6.3 km	North Cowichan/ Cowichan Tribes	MUP/Shoulders	No shoulders or fog lines. Key route with notable pedestrian activity. Missing link between Duncan and Maple Bay/Cowichan Bay	Important connectivity gap. Opportunity to work with Cowichan Tribes and MOTI
K	Cowichan Bay Road	Lochmanetz Road to Cowichan Bay Village (Marina)	3.2 km	Electoral Area D	MUP/Shoulders + 'Share the Road' signs	Substandard, inconsistent shoulders with fog lines	Important connectivity gap along Tzouhalem Road between Duncan and Cowichan Bay. Add 'Share the Road' signs. Widen shoulders and/or MUP
L	Mill Bay Road South – Malahat Nation	Rozon Road to Mill Bay Ferry Terminal	3.0 km	Malahat Nation	MUP/Shoulders	Substandard, inconsistent shoulders with fog lines	Pursue MUP or shoulder improvements along road in coordination with anticipated Malahat Nation water main work scheduled for 2024. Water main removal along roadways west edge provides opportunity to collaborate
M	Mill Bay Road North	Handy Road to Rozon Road	2.1 km	Electoral Area A	MUP/Shoulders	Substandard, inconsistent shoulders with fog lines	Pursue adaptive MUP or shoulder improvements along road, which could include both rural and urban cross sections with AT infrastructure
N	Barry Road to Horton Road Connection	Shawnigan Lake-Mill Bay Road to Horton Road	1.5 km	Electoral Area A	MUP/Signage	Barry Road has approximately 1.7 m wide shoulders. Horton Road is a low vehicle volume route, without shoulders or fog lines	Through future development, obtain connection between Horton Road and Barry Road using either Hayden Place or a more northern alignment to connect Frances Kelsey Secondary School to Horton Road. Horton Road could be retained as local route without shoulders, signed as AT route. Horton Road connects to Kilmalu Road. Add Wayfinding and 'Share the Road' signage along route
O	Stone Bridge Trail	Stone Bridge to Shawnigan Lake - Mill Bay Road	490 m	Electoral Area A	MUP	Approximate 3m wide MUP connects Barry Road across Shawnigan Creek	Preserve and augment AT trail connection from Barry Road Walkway termination to Shawnigan Lake - Mill Bay Road. Add wayfinding route signage

MAP REF.	ROAD	SEGMENT	LENGTH	LOCATION	IMPROVEMENT	EXISTING CONDITIONS	IMPLEMENTATION NOTES
P	Shawnigan Lake Road	From Renfrew Road to Cobble Hill Village	4.3 km	Electoral Area B	MUP/Shoulders	Substandard, inconsistent shoulders with fog lines. This route connects two commercial areas/communities	Add 'Share the Road' signs. Widen Shoulders and/or MUP
Q	York Avenue	Chaplin Street to Adelaide Street	800 m	North Cowichan	Signed Route or Painted Bike Lanes	Inconsistent cross section, sporadic sidewalks. Some curbside parking activity near residential frontages	Due to the urban context of York Road, a more urban cross section with protected bike lanes may be considered in consultation with Municipality of North Cowichan
R	Cowichan Bay Road	Cowichan Bay south to TCH	4.1 km	Electoral Area D	MUP/Shoulders	Substandard, inconsistent shoulders with fog lines. This route connects two commercial areas/communities	Widen shoulders and/or MUP
S	Telegraph Road	Cowichan Bay Road to Kilmalu Road	8.7 km	Electoral Areas C, D, A	MUP/Shoulders	Substandard, inconsistent shoulders, some section with no fog lines	Add 'Share the Road' signs. Widen shoulders and/or MUP
T	Crofton Road	Chemainus Road to Chaplin Street @ York Avenue	3.5 km	North Cowichan	MUP/Shoulders	Recently widened and repaved with approximate 1m shoulders with fog lines. Main connection to Crofton and its ferry terminal	Future resurfacing may look to widen asphalt on shoulders to 1.5–1.8 m. In interim add Wayfinding and 'Share the Road' signage
U	Osborne Bay Road	Adelaide to Herd Road	4.5 km	North Cowichan	MUP/Shoulders	Approximate 1m shoulders with fog lines	Future resurfacing may look to widen asphalt on shoulders to 1.5–1.8 m. In interim add Wayfinding and 'Share the Road' signage
V	Herd Road (East)	Osborne Road east to Maple Bay Road	2.4 km	North Cowichan	MUP/Shoulders	Approximate 1m shoulders with fog lines	Future resurfacing may look to widen asphalt on shoulders to 1.5–1.8 m. In interim add Wayfinding and 'Share the Road' signage
W	Cobble Hill Road	Cobble Hill to TCH/ Valleyview Centre	2.5 km	Electoral Area C	MUP/Shoulders	Approximate 1m shoulders with fog lines	Future resurfacing may look to widen asphalt on shoulders to 1.5 – 1.8 m. In interim add Wayfinding and 'Share the Road' signage
X	Kilmalu Road	Telegraph Road west to Horton Road	500 m	Electoral Area A	MUP/Shoulders	No shoulders or fog lines. Controlled crossing of TCH	Widen shoulders. Add "East Route" wayfinding if Church Way connection is not viable
Y	Church Way	Kilmalu Road south to Shawnigan Lake Mill Bay Road	750 m	Electoral Area A	MUP/Shoulders	Church Way is a low vehicle volume route, without shoulders or fog lines	Pursue potential MUP opportunity south of Church Way to connect to Lashburn Road. This would retain "East Route" to the east of the TCH. If Church Way can connect to Lashburn Road then Church Way could be retained as a local route without shoulders, signed as AT route
Z	Maple Bay Road	Maple Bay to Tzouhalem Road and Duncan	6.0 km	North Cowichan	MUP/Shoulders	Approximate 1m shoulders with fog lines	Future resurfacing may look to widen asphalt on shoulders to 1.5 – 1.8 m. In interim add Wayfinding and 'Share the Road' signage

TABLE C3: COMMUNITY CONNECTIONS AND EXTENSIONS presents potential improvements that seek to provide connections to the CVT and East routes, resulting in a comprehensive Regional Network. In addition to the high priority projects presented in **Section 4** of the report, this table includes medium and low priority projects. The accompanying maps illustrate the medium and low priority projects and the high priority projects, illustrated in **Section 4** of the report.

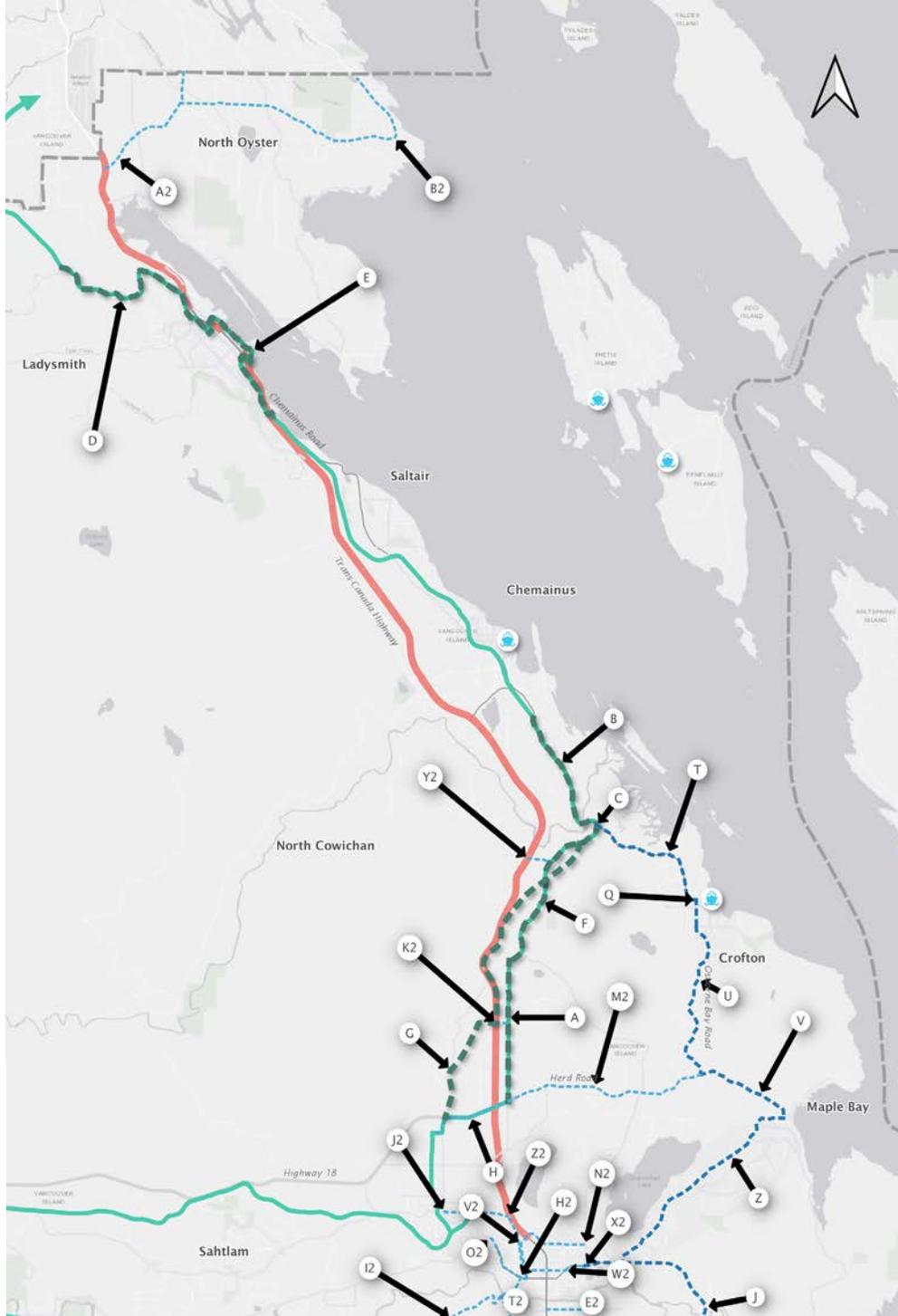
MAP REF.	ROAD	SEGMENT	LENGTH	LOCATION	IMPROVEMENT	EXISTING CONDITIONS	IMPLEMENTATION NOTES
A2	Cedar Road	TCH to RDN	3.7 km	Electoral Area H	MUP/Shoulders	Approximate 0.6 m shoulders with fog lines. Recent (2022) work on Cedar Road between Chuck Wagon retail and Cedar Community Centre	Collaborate with Nanaimo Regional District and MOTI to connect the two Regional Districts. Add 'Share the Road' signs. Widen shoulders and/or MUP
B2	Yellow Point Road	Cedar Road to RDN	7.9 km	Electoral Area H	MUP/Shoulders	No shoulders or fog lines	Collaborate with Nanaimo Regional District. Add 'Share the Road' signs. Widen shoulders and/or MUP
D2	Renfrew Road	Shawnigan Lake Road to Cowichan Valley Trail	5.5. km	Electoral Area B	MUP/Shoulders	Inconsistent, often below standard shoulders with fog lines, areas towards west without shoulders or fog lines	Add 'Share the Road' signs. Widen shoulders and/or MUP. Priority to segment east of West Shawnigan Lake Road intersection
E2	Boys Road	TCH to Mission Road	1.0 km	Cowichan Tribes / Duncan	MUP/Shoulders	Approximate 1.0 m shoulder with fog on north side along western segment (300 m). No shoulders or fog lines on eastern segment (700 m)	Collaborate with Cowichan Tribes and MOTI
F2	North Shore Road	River Road to Meade Creek Road	2.3 km	Electoral Area I	MUP/Shoulders	Isolated pieces (450m) of parallel MUP as the road traverses Lake Cowichan First Nation. The remainder of the route has no or substandard shoulders	Add 'Share the Road' signs. Widen shoulders and MOTI MUP. Priority to eastern segments of roadway
G2	South Shore Road	Stone Avenue to Honeymoon Bay	9.1 km	Electoral Area I	MUP/Shoulders	Substandard, inconsistent shoulders, some section with no fog lines	Add 'Share the Road' signs. Widen shoulders and/or MUP. Priority to eastern segments of roadway
H2	Allenby Road	Government Street to Allenby Road/ Miller Road	675 m	Cowichan Tribes/ Electoral Area E	MUP/Shoulders	Northeast 225 m section has urban profile with curbs, gutters, and sidewalks. Southwest 450 m section has no shoulders or fog lines	Northeast section – Add protected or buffered bike lanes. Southwest section - widen shoulders and/or MUP. Collaborate with Cowichan Tribes and MOTI
I2	Indian Road	Allenby Road to Glenora Road	3.5 km	Electoral Area E	MUP/Shoulders	Partial MUP, ongoing work program. Connects Glenora and Deerholme to Duncan	Collaborate with Cowichan Tribes and MOTI to complete MUP
J2	Sherman Road	Cowichan Lake Road to Canada Avenue	1.7 km	North Cowichan	Complete Streets	Urban road with curb, gutter and curb-side parking	Complete Street cross section may include painted or buffered bike lanes, bike route signage or sharrows
K2	Mays Road	Cowichan Exhibition Park to Bell McKinnon Road	400 m	North Cowichan	MUP/Shoulders	No shoulders or fog lines	Add 'Share the Road' signs. Widen shoulders and/or MUP
L2	Meade Creek Road	Meade Road to Youbou Road	3.4 km	Electoral Area I	Wayfinding Signage and	No shoulders or fog lines	Wayfinding signage at intersections to connect AT route from North Shore Road to Youbou Road

MAP REF.	ROAD	SEGMENT	LENGTH	LOCATION	IMPROVEMENT	EXISTING CONDITIONS	IMPLEMENTATION NOTES
					Share Road Signage		
M2	Herd Road (West)	Osborne Bay Road to Bell McKinnon Road	5.4 km	North Cowichan	MUP/Shoulders	Approximate 1m shoulders with fog lines. High vehicle speeds. Crofton to Duncan connection	Future resurfacing may look to widen asphalt on shoulders to 1.5 – 1.8 m. In interim add Wayfinding and 'Share the Road' signage
N2	Beverly Street	TransCanada Highway to Canada Avenue	280 m	North Cowichan	Complete Streets	East of TCH, Beverley Street has bike lanes and nearby parallel MUP. Also, an option to use MUP on dyke	Extend AT amenities west of controlled TCH crossing to Canada Avenue and parallel Friendship Trail. Collaborate with Vancouver Island University Cowichan Campus to create direct MUP from Beverley / TCH intersection south to Vancouver Island University Cowichan Campus and Canada Avenue/Friendship Trail
O2	Government Street	Cowichan Lake Road to Trunk Road	1.5 km	Duncan/ Electoral Area E	MUP/Shoulders	Inconsistent bike lanes and sharrows	Recommended as a regional connection with consistent bike lanes, but at local level the higher priority alternative route is Carinsmore Street to Jubilee Street to Ingram Street which is in Duncan's Active Transportation Plan
P2	Koksilah Road	Miller Road south and east to Cowichan Bay Road	9.9 km	Cowichan Tribes/ Electoral Areas E/ D	MUP/Shoulders	Substandard, inconsistent shoulders. Areas with and without fog lines. Crosses TCH, provides link with East Route	Add 'Share the Road' signs. Widen shoulders and/or MUP
Q2	Youbou Road	Meade Creek Road to Creekside Drive	1.3 km	Electoral Area I	MUP/Shoulders	Substandard, inconsistent shoulders	This section of Youbou Road would connect proposed Meade Creek Road route to existing MUP and local road route at Creekside Drive (Mile 77 Park). Add 'Share the Road' signs. Widen shoulders and/or MUP
R2	Youbou Road	Swordforn Trail west to Alder Crescent/ Cedar Drive	4.1 km	Electoral Area I	Complete Streets	Substandard, inconsistent shoulders	Future resurfacing may look to widen asphalt on shoulders to 1.5 – 1.8 m. In interim add Wayfinding and 'Share the Road' signage
S2	Shawnigan Lake South Trail	Shawnigan Lake Road Rail with Trail MUP to Recreation Road	1.2 km	Electoral Area B	MUP	Gap in Shawnigan Lake Rail with Trail MUP	Continue Rail with Trail initiative from existing termination south to Old Mill Park
T2	Miller Road	Indian Road to Koksilah Road	2.0 km	Electoral Area E	MUP/Shoulders	Inconsistent substandard shoulders, no fog lines. Miller is preferred over the parallel Allenby Road due to the difficulty of widening Allenby Road when it nears the Cowichan River	Add 'Share the Road' signs. Widen shoulders and/or MUP
U2	Hutchinson Road	Cobble Hill Road to Telegraph Road	3.8 km	Electoral Area C	MUP/Shoulders	Substandard, inconsistent shoulders, some section with no fog lines. Provides east/west connection across TCH. Connects Ecole Cobble Hill	Add 'Share the Road' signs. Widen shoulders and/or MUP

MAP REF.	ROAD	SEGMENT	LENGTH	LOCATION	IMPROVEMENT	EXISTING CONDITIONS	IMPLEMENTATION NOTES
						Elementary School to proposed East Route	
V2	Duncan Street	Beverley Street to Trunk Road	900 m	Duncan	Complete Streets	90-degree parking along west edge. Sidewalk, curb and gutter along east edge	Introduce sharrows to indicate rollers share travel lane, and traffic calming such as augmented pedestrian crossing points
W2	Coronation Avenue	Duncan Street to Trunk Road	1.1 km	Duncan	Complete Streets	Curb, gutter and sidewalks on both sides. East, west connection through Duncan, controlled crossing of TCH	In Duncan Active Transportation Plan. Design consistent with Duncan AT Plan recommendations
X2	Trunk Road	Coronation Avenue to Tzouhalem Road	570 m	Duncan	Complete Streets	Curb, gutter and sidewalks on both sides. Connects Coronation Avenue to Tzouhalem Road, consider adding buffered or protected bike lanes	In Duncan Active Transportation Plan. Design consistent with Duncan AT Plan recommendations
Y2	Mt. Sicker Road	Westholme Road to TCH	580 m	North Cowichan	MUP/Shoulders	Inconsistent substandard shoulders, no fog lines	Collaborate with Halalt First Nation. Add 'Share the Road' signs. Widen shoulders and/or MUP
Z2	Canada Avenue	Sherman Road to Beverly Street	780 m	Duncan	MUP	Gap in adjacent and parallel Friendship Trail MUP	In Duncan Active Transportation Plan. Fill MUP gap
A3	Boal Road, Chaster Road, Francis Street	Polkey Road to Corfield Road	1.2 km	Electoral Areas E and D	Wayfinding Signage	No shoulders, no fog lines. Provides connections to the TCH pedestrian overpass located south of Duncan	Add wayfinding and 'Share the Road' signage on Boal Road. Widen shoulders on Chaster Road and Francis Street, add and 'Share the Road' signage
B3	Frayne Road	East terminus to west terminus	1.9 km	Electoral Area A	'Share the Road' Signage	East of TCH segment (600 m) – No shoulders. West of TCH segment (1.3 km) - Approximate 1.2 m wide shoulders West- east controlled TCH crossing to Mill Bay Road/ East Route	East segment – add 'Share the Road' signs. Widen shoulders and/or MUP. West segment - add 'Share the Road' signs. Consider widening shoulders during future resurfacing

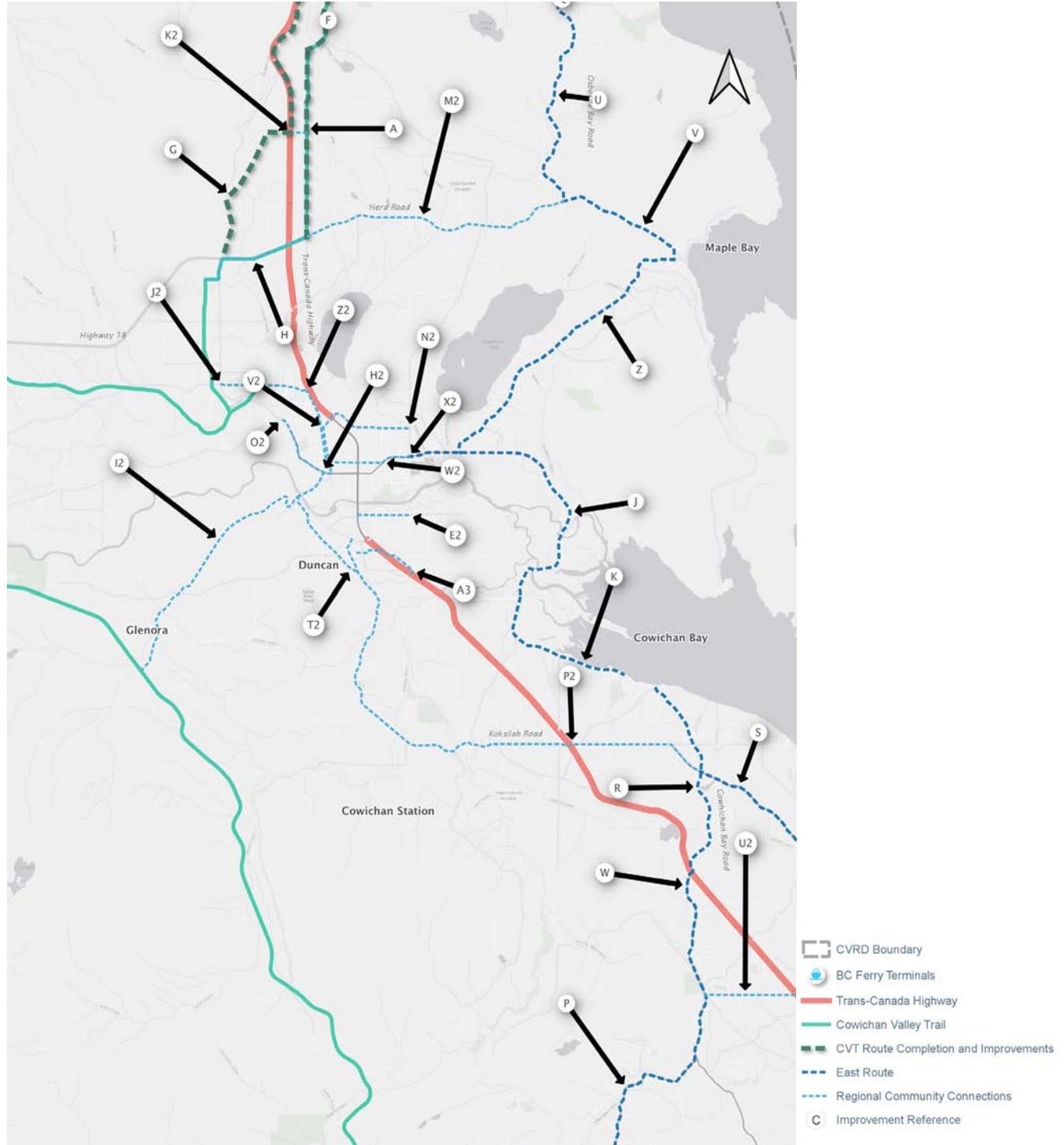
ALL RECOMMENDED PROJECTS IN FOCUS

The maps on the following pages showcase all recommended projects focused by north, east, west, and south sections of the Cowichan Valley region. The purpose of these maps is to present all project segments on an area-by-area basis to illustrate how the proposed project segments and improvements function together. Each labeled project segment is described on the corresponding table.

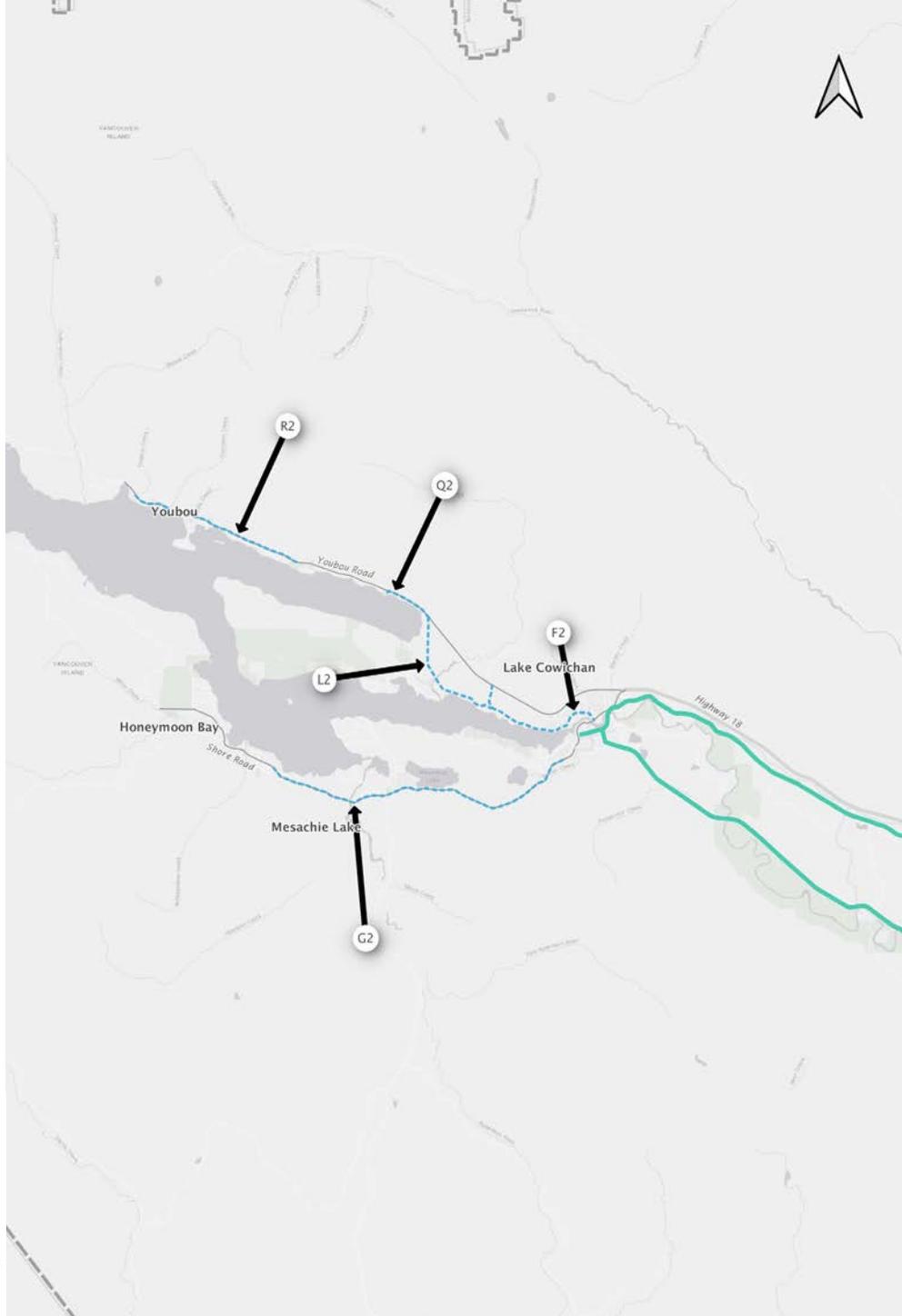


- CVRD Boundary
- BC Ferry Terminals
- Trans-Canada Highway
- Cowichan Valley Trail
- CVT Route Completion and Improvements
- East Route
- Regional Community Connections
- Improvement Reference

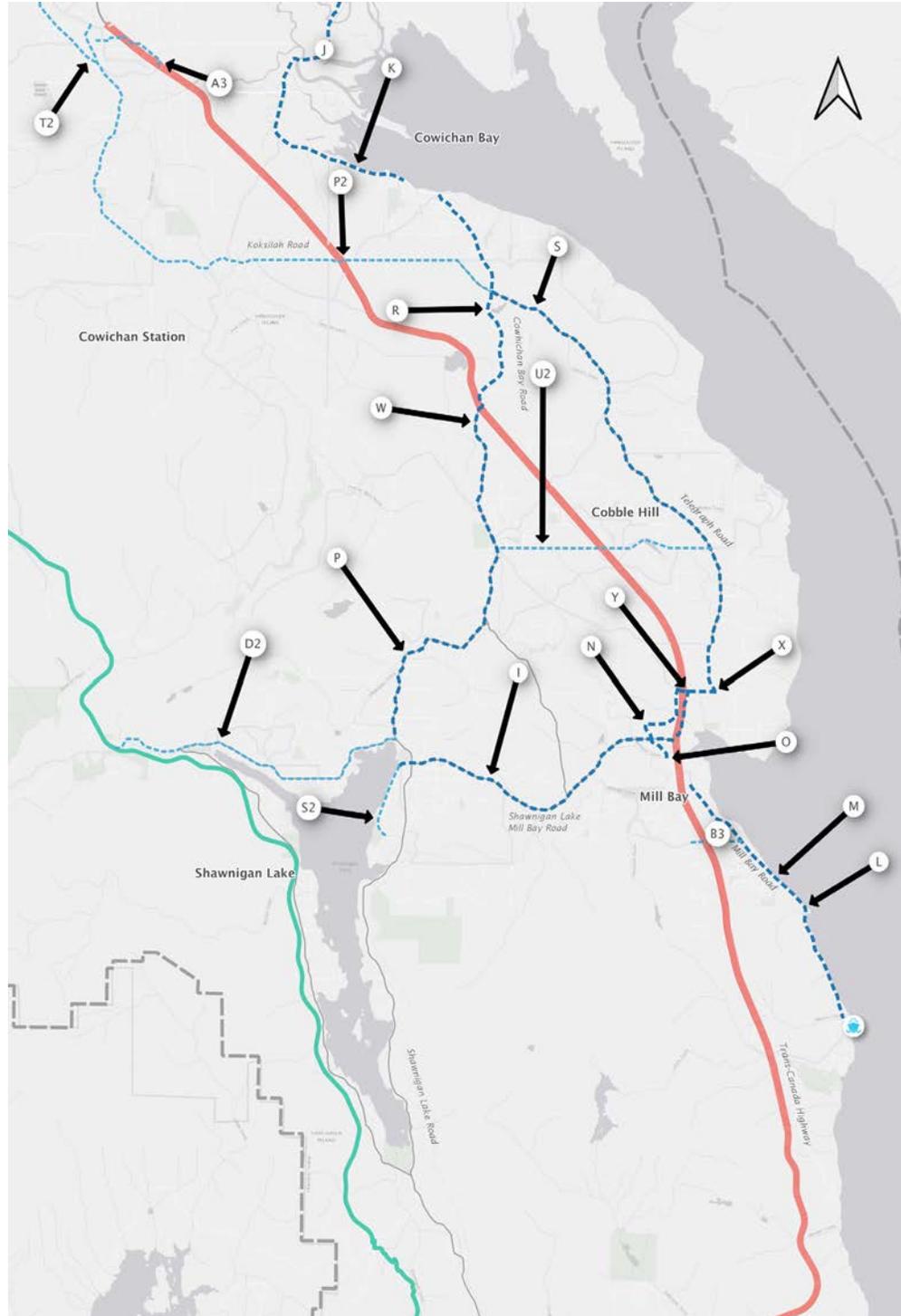
MAP C1 - NORTH REGION HIGH, MEDIUM, AND LOW PRIORITY PROJECTS



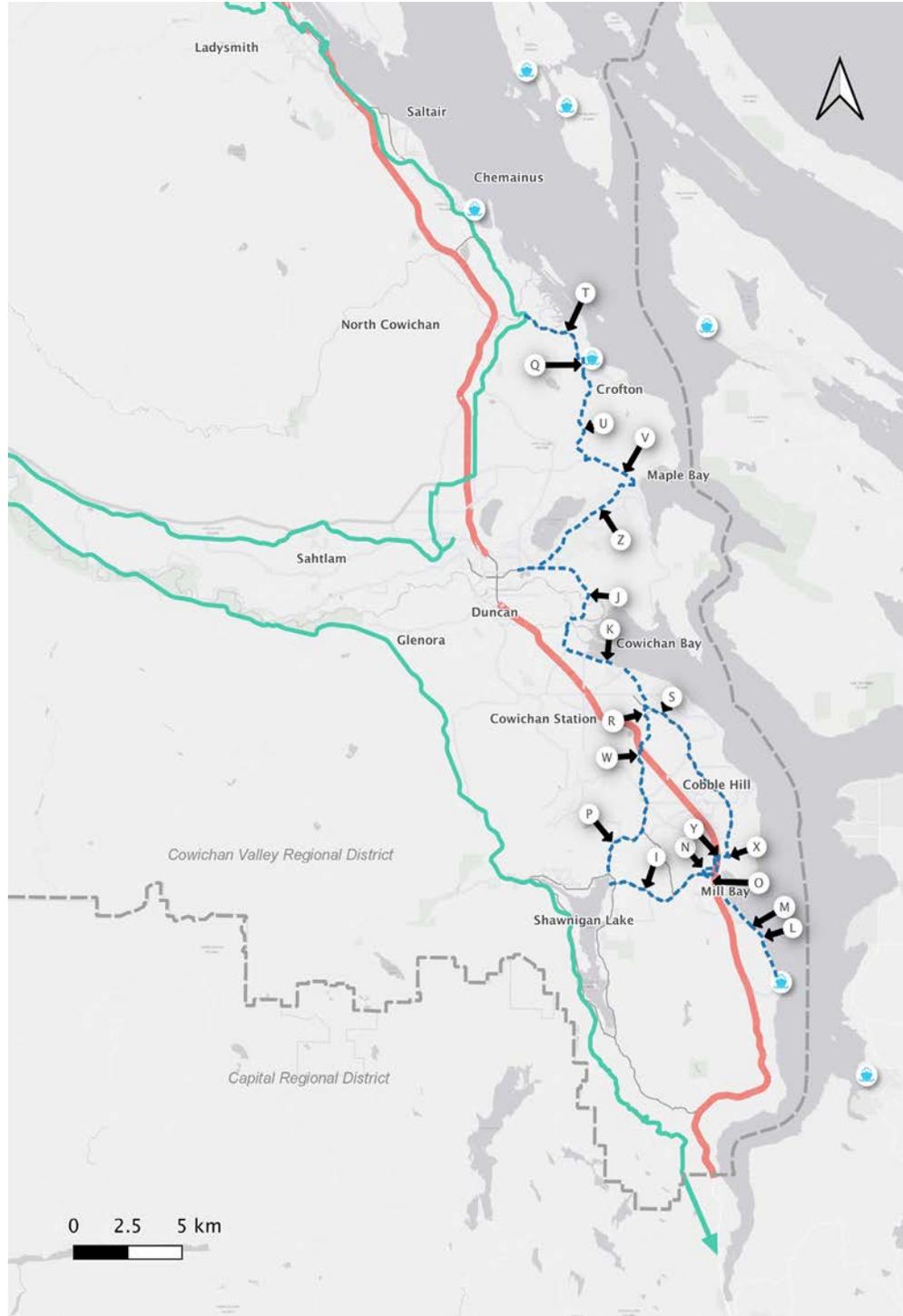
MAP C2 - EAST REGION HIGH, MEDIUM, AND LOW PRIORITY



MAP C3 - WEST REGION HIGH, MEDIUM, AND LOW PRIORITY PROJECTS



MAP C4 - SOUTH REGION HIGH, MEDIUM, AND LOW PRIORITY PROJECTS



-  CVRD Boundary
-  Trans-Canada Highway
-  Cowichan Valley Trail
-  East Route
-  Regional Community Connections
-  Improvement Reference

MAP C5 - EAST ROUTE HIGH AND MEDIUM PRIORITY PROJECTS