

RDN Rail Transit

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www.railtransit.ca

The Island Rail Corridor would be preserved for a **Regional Rail Passenger Service**, a **Freight Service**, and a **Multi-Use Trail** beside the rail line.

Regional Rail Passenger Service

- The rail line would be upgraded with new rail and concrete ties to allow for scheduled passenger rail service throughout the day.
- Station platforms are 170m long initially with the ability to extend to 300m. This would allow for future expansion to ten bilevel coaches with a locomotive at each end.
- The travel time between Courtenay and Victoria would be a under **3.5** hours.
(The travel time between Courtenay and Victoria would be over 5 hours on five BC Transit buses)

Rail Rolling Stock

- Deisel Electric Multiple Units with batteries and a pantograph that are FRA compliant.

The picture below shows a four car Stadler Flirt DEMU which runs on the Ottawa Trillium Line.



Freight Rail Service

- All freight would run on the mainline outside of the passenger rail schedule.
- New services would be feasible when the rail line is upgraded.

Possible Ridership

Using Appendix Table G-14 and Table G-16 in the CVRD Stantec Report as a reference with 6 hrs off peak, the number of possible rail trips on the Island Rail Corridor with the existing population on Vancouver Island shows as follows.

- RDN at around 2.4 million possible rail trips per year.
- CVRD at around 1.5 million possible rail trips per year.
- Comox Valley RD at around 564,000 possible rail trips per year.
- Port Alberni immediate area at around 452,000 possible rail trips per year.

This is a total of a possible **4.9 million possible rail trips per year** north of the Malahat. This does not include the CRD.

Costs to Upgrade the RDN Rail Section

• Upgrading the rail line to the Ultimate Stage for the Victoria Sub (90km)	\$360 million
• Upgrading the rail line to the Ultimate Stage for the Pt Alberni Sub (33km)	\$132 million
• 4 four car and 4 two car DEMUs (One spare for each size)	\$100 million
• CTC signaling system for the Island Rail Corridor	\$62 million
• Tunnel section under Snaw-Naw-As First Nation (1.4km)	<u>\$379 million</u>
Total	\$1,033 million

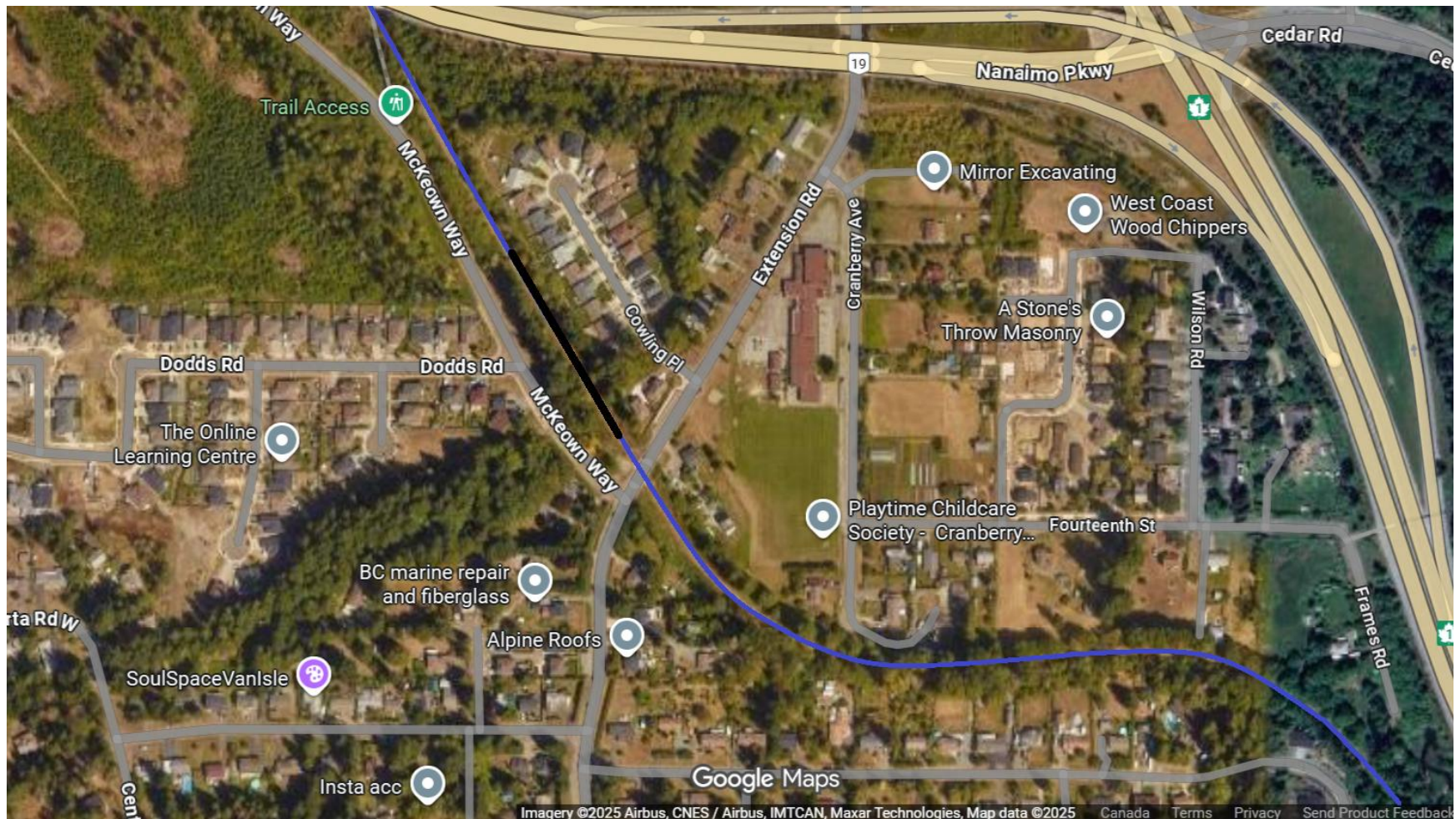
Annual Maintenance

• The annual maintenance for the track is around	\$12.5 million
• The annual maintenance for the trains is around	\$2.4 million
• The cost for train drivers is around	<u>\$0.8 million</u>
Total	\$15.7 million

- The annual maintenance cost could be funded by a five cent gasoline only Tax in the five Regional Districts.

Chase River Station

- This station is here because it would take two buses and 30 minutes to connect to the next closest train station.



Snuneymuxw First Nations Reserve

- When a new rail link is built to Duke Point connecting to a rail barge terminal, the right of way through the Snuneymuxw First Nations Reserve can be returned to the First Nation and the Wellcox Yard redeveloped.
- The rail line to Coastal Wood Industries could be retained.

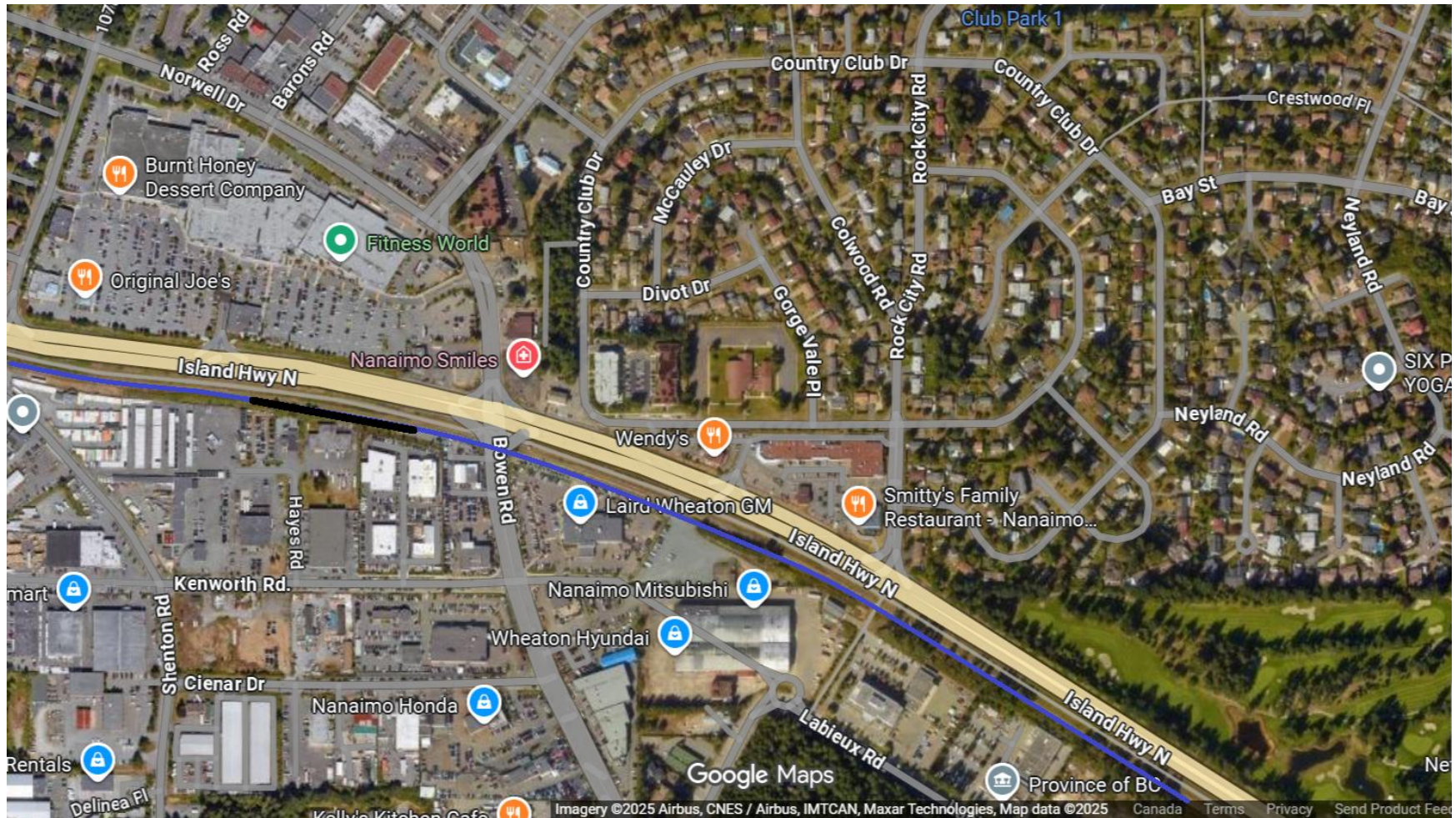


Nanaimo Brooks Landing Station

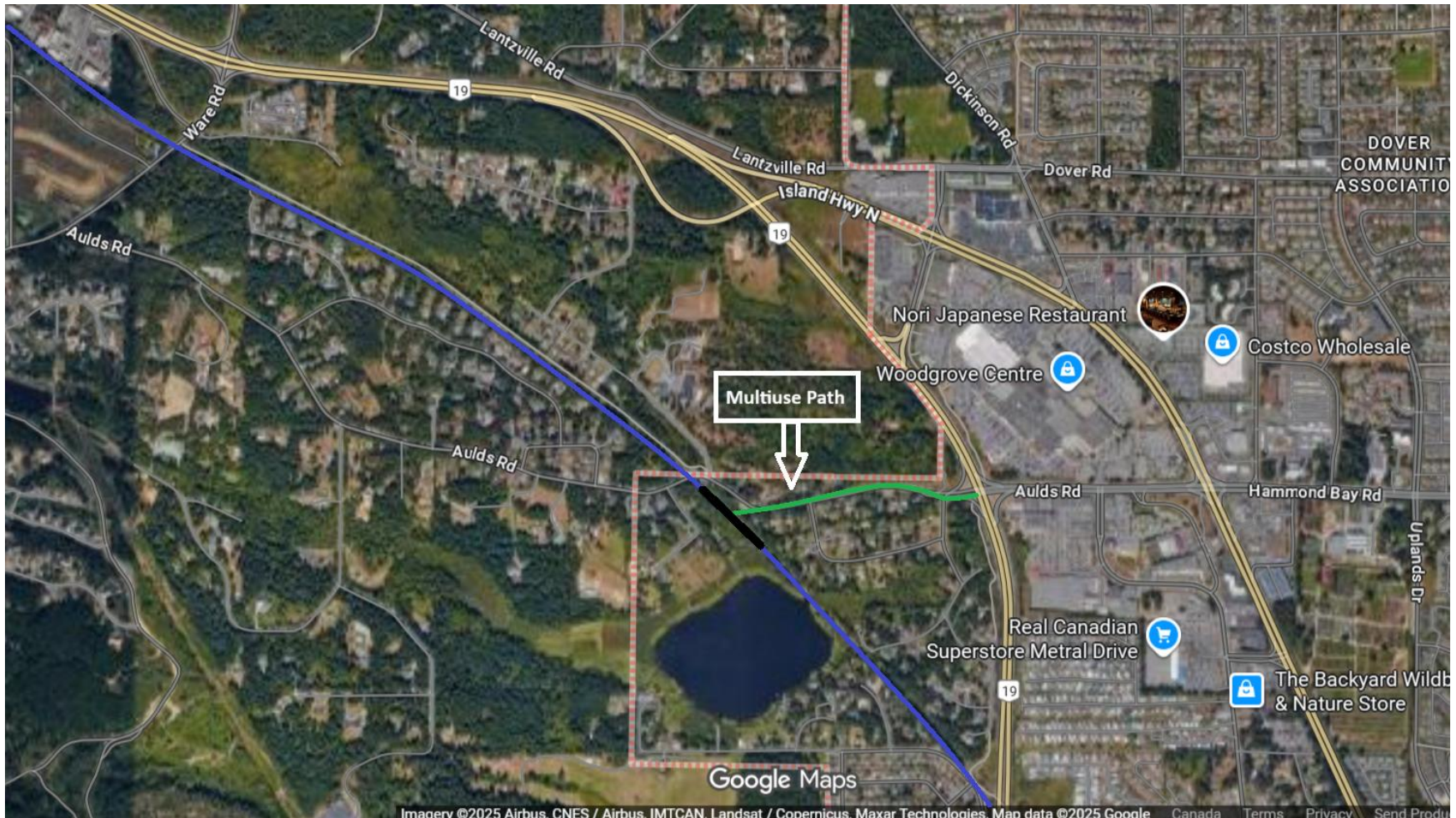
- Transfer point to the Departure Bay Ferry Terminal via the Hammond Bay Bus. Pedestrian access in green on map.



Nanaimo Country Club Station

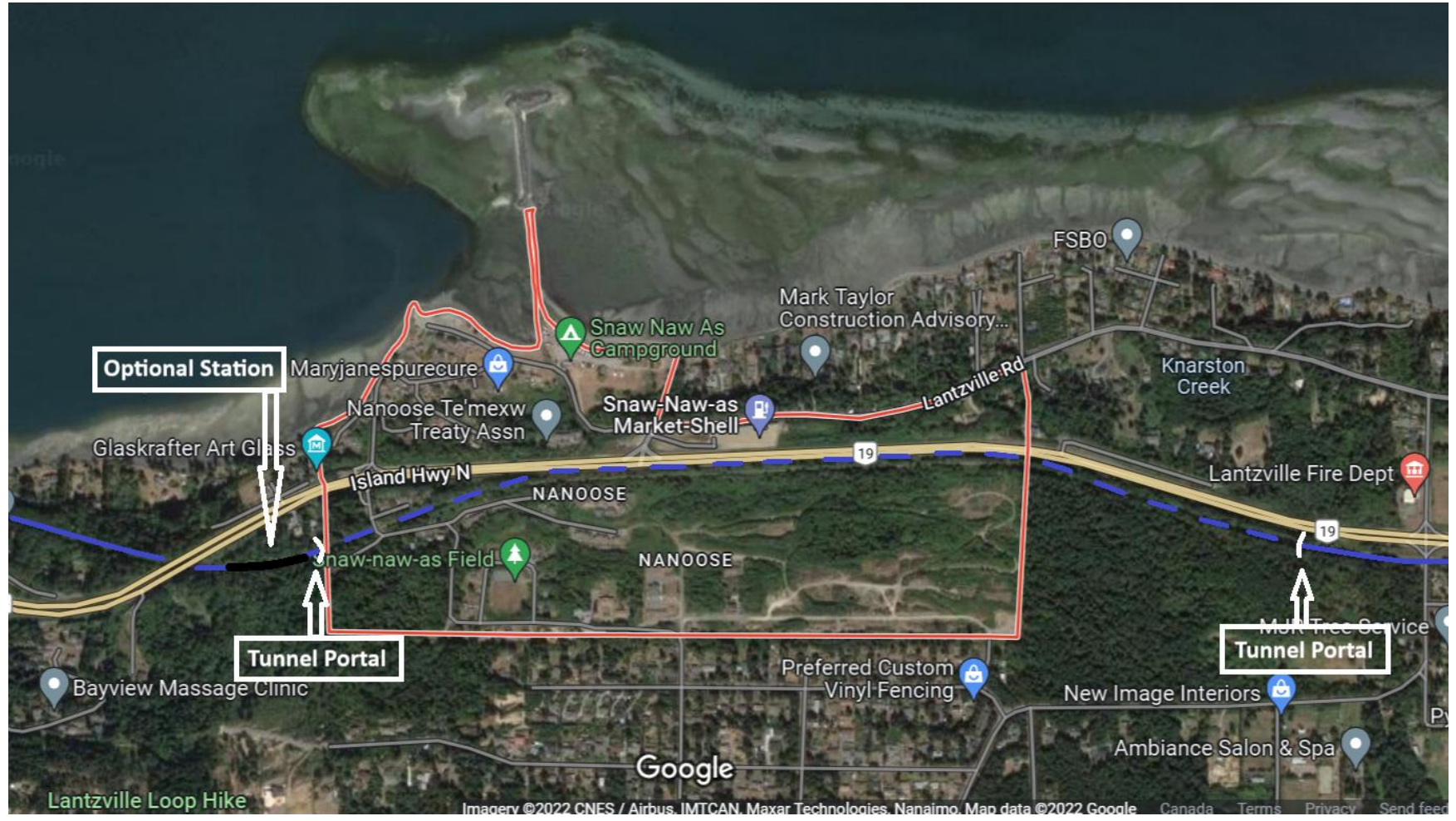


Lantzville-Nanaimo Woodgrove Station



Snaw-Naw-As First Nation Reserve

- The line would be placed underground through the reserve.

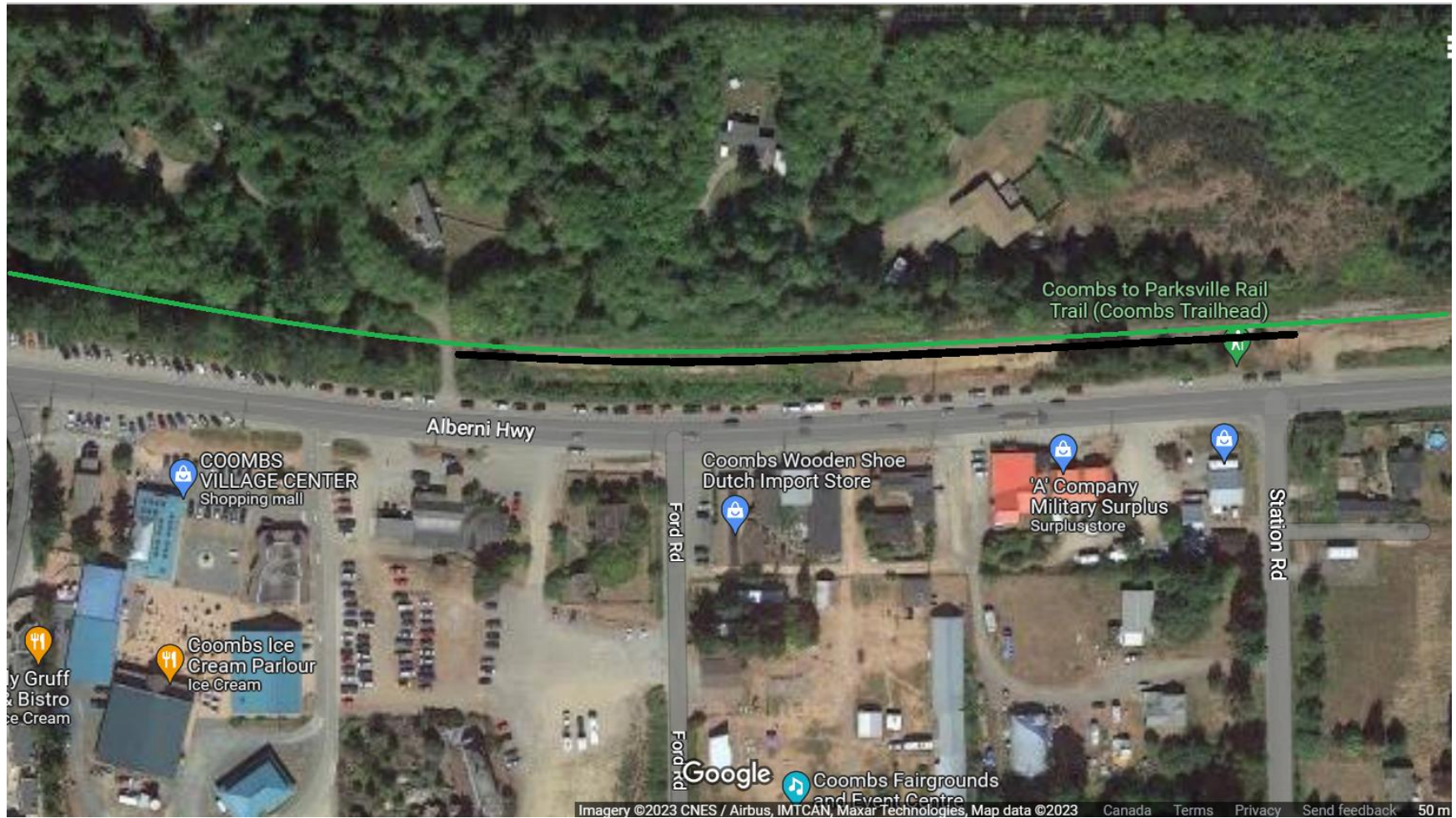


Parksville Station

Platform length would be 300m long.



Coombs Station



Travel Time and Average Speed between Stations

Southbound				
Station to Station		km	Minutes	Avg. Sp.
Campbell R	Courtenay	38	28	80km/hr
Courtenay	Buckley	22	17	80km/hr
Buckley	Qualicum	39	30	80km/hr
Qualicum	Parksville	10.6	8	80km/hr
Parksville	Lantzville	22	17	80km/hr
Lantzville	Nanaimo	14.5	15	60km/hr
Nanaimo	YCD	14	14	60km/hr
YCD	Ladysmith	9	7	80km/hr
Ladysmith	Chemainus	12	9	80km/hr
Chemainus	Duncan	18	14	80km/hr
Duncan	Cowichan	10	8	80km/hr
Cowichan	Cobble Hill	4.4	5	60km/hr
Cobble Hill	Shawnigan	4.7	5	60km/hr
Shawnigan	Langford	31	31	60km/hr
Langford	View Royal	4.5	6	45km/hr
View Royal	Esquimalt	4.5	7	40km/hr
Esquimalt	Victoria	5	7	45km/hr

Northbound				
Station to Station		km	Minutes	Avg. Sp.
Victoria	Esquimalt	5	7	45km/hr
Esquimalt	View Royal	4.5	7	40km/hr
View Royal	Langford	4.5	6	45km/hr
Langford	Shawnigan	31	31	60km/hr
Shawnigan	Cobble Hill	4.7	5	60km/hr
Cobble Hill	Cowichan	4.4	5	60km/hr
Cowichan	Duncan	10	8	80km/hr
Duncan	Chemainus	18	14	80km/hr
Chemainus	Ladysmith	12	9	80km/hr
Ladysmith	YCD	9	7	80km/hr
YCD	Nanaimo	14	14	60km/hr
Nanaimo	Lantzville	14.5	15	60km/hr
Lantzville	Parksville	22	17	80km/hr
Parksville	Qualicum	10.6	8	80km/hr
Qualicum	Buckley	39	30	80km/hr
Buckley	Courtenay	22	17	80km/hr
Courtenay	Campbell R	38	28	80km/hr

Westbound				
Station to Station		km	Minutes	Av. Sp.
Parksville	Coombs	7	7	60km/hr
Coombs	Port Alberni	56.4	48	70km/hr

Eastbound				
Station to Station		km	Minutes	Av. Sp.
Port Alberni	Coombs	56.4	48	70km/hr
Coombs	Parksville	7	7	60km/hr

Regional Rail Passenger Schedule: Northbound Example

- The northbound train will split into two trains at Parksville.
- The two car trains would run to Port Alberni, and the four car trains would run to Courtenay.

Northbound						
Train #	Victoria	Duncan	Nanaimo	Parksville	Courtenay	Pt Alberni
1	07:00am	08:10am	08:54am	09:26am	10:26am	10:26am
2	08:00am	09:10am	09:54am	10:26am	11:26am	11:26am
3	09:00am	10:10am	10:54am	11:26am	12:26pm	12:26pm
4	10:00am	11:10am	11:54am	12:26pm	01:26pm	01:26pm
5	11:00am	12:10am	12:54pm	01:26pm	02:26pm	02:26pm
6	12:00pm	01:10pm	01:54pm	02:26pm	03:26pm	03:26pm
7	01:00pm	02:10pm	02:54pm	03:26pm	04:26pm	04:26pm
8	02:00pm	03:10pm	03:54pm	04:26pm	05:26pm	05:26pm
1	03:00pm	04:10pm	04:54pm	05:26pm	06:26pm	06:26pm
2	04:00pm	05:10pm	05:54pm	06:26pm	07:26pm	07:26pm
3	05:00pm	06:10pm	06:54pm	07:26pm	08:26pm	08:26pm
4	06:00pm	07:10pm	07:54pm	08:26pm	09:26pm	09:26pm

Regional Rail Passenger Schedule: Southbound Example

- The two car train from Port Alberni and the four car train from Courtenay will couple into one train and continue to Victoria.
- Additional train service in between Langford and Victoria to allow a frequency of up to 14 minutes.
- Additional train service between Duncan and Victoria in the morning.

Southbound						
Train #	Pt Alberni	Courtenay	Parksville	Nanaimo	Duncan	Victoria
5	06:26am	06:26am	07:26am	07:58am	08:42am	09:51am
6	07:26am	07:26am	08:26am	08:58am	09:42am	10:51am
7	08:26am	08:26am	09:26am	09:58am	10:42am	11:51am
8	09:26am	09:26am	10:26am	10:58am	11:42am	12:51pm
1	10:26am	10:26am	11:26am	11:58am	12:42pm	01:51pm
2	11:26am	11:26am	12:26pm	12:58pm	01:42pm	02:51pm
3	12:26pm	12:26pm	01:26pm	01:58pm	02:42pm	03:51pm
4	01:26pm	01:26pm	02:26pm	02:58pm	03:42pm	04:51pm
5	02:26pm	02:26pm	03:26pm	03:58pm	04:42pm	05:51pm
6	03:26pm	03:26pm	04:26pm	04:58pm	05:42pm	06:51pm
7	04:26pm	04:26pm	05:26pm	05:58pm	06:42pm	07:51pm
8	05:26pm	05:26pm	06:26pm	06:58pm	07:42pm	08:51pm

All Fare Zones

Fares are based on BC Transit Victoria single ticket price. BC Transit is proposing a single ticket price of \$3 by 2025.

Zone	1	2	3	4	5	6	7
City	CRD	Shawnigan	Duncan	YCD	Parksville	Buckley Bay	Campbell River
		Cobble Hill	Chemainus	Nanaimo	Qualicum	Courtenay	
		Cowichan	Ladysmith	Lantzville	Coombs	Pt Alberni	

Zones	1	2	3	4	5	6	7
Fares	\$3.00	\$6.00	\$9.00	\$12.00	\$15.00	\$18.00	\$21.00
Monthly Pass	\$90	\$130	\$170	*	*	*	*

Note: Children 12 years and under ride free. Children 5 years and under must be accompanied by someone 12 years and older.

Example: Individual Ticket: Courtenay-Victoria \$18.00 / Nanaimo-Victoria \$12.00 / Parksville-Duncan \$12.00

Disclaimer

The author is not a professional planner or affiliated with any transportation body, consulting group, lobby group, or committee. The document is written for an idea on upgrading the Island Rail Corridor.