

The above map is designed to show the route recommended by Marcus Smith. C. E., for the Canadian Pacific railway: also the route for a railway to the northern end of the island, and in a general way the way by which connection may be made with the 100 miles.

Mainland Incidentally, certain other features are also shown.

The distance from Yellow Head Pass, which will be found just north of the letter "K" in Kootenay Central to Waddington necessary to get to the Island by way of Seymour Narrows. The Harbor, at the head of Bute Inlet, as shown by Mr. Smith's survey, is 546 miles. The estimated cost of the line in 1873 was \$33,000,000, which was considerably less than the cost of any other line across British Columbia, except one coming out to the coast at Dean Inlet. The distance from the head of Bute Inlet to Elk.

Arran Rapids

Arran Rapids

Cardero Channel

Cardero Channel Bay, on Vancouver Island, by water is 64 miles. By using rail to Frederick Arm, the distance would be somewhat less. It is thought probable by persons, who have examined the country, that by leaving the Smith line somewhere in the neighborhood of Waddington Canon, and striking across to Loughborough Inlet, the distance would be further shortened. This is one of the reasons why the Transportation Commission recommended a new survey.

Arran Rapids	1,100 feet	
Cardero Channel	1,350 feet	
Cardero Channel	1,140 feet	
Cardero Channel	640 feet	Ė
Middle Channel	1,110 feet	
Seymour Narrows	1,200 feet	
Seymour Narrows	1,350 feet	
Total	7,890 feet	
The route of the Island railway is that laid de	own by J.	

The greatest elevation reached on this route in British Columbia is 3,590 feet, which is a short distance east of the crossing of the Chilcotin river. An almost equal altitude is attained at the divide west of Tatla Lake. This latter ascent is made in approximately 100 miles.

The line as drawn follows what Sir Sandford Fleming called "a perfectly feasible route," that is a route which avoided the bridging necessary to get to the Island by way of Seymour Narrows. The increase of the country to be developed is one containing great resources.

The greatest elevation reached on this route in British Columbia is indebted for the location of the lines upon this map. Mr. Grey has not traversed the country, between Alberni and Gold River, but he knows the route from Wellington to Hardy Bay very well, having, in point of fact, surveyed and located the line from Campbell River to Hardy Bay. Speaking from his knowledge now possessed by engineers the was available in 1873, a shorter and better route than that of Marcus Smith can be found.

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The route from Yellow Head Pass to Fort George will be that The route from Yellow Head Pass to Fort George will be that followed by the Grand Trunk Pacific railway, unless a more favorable line can be found to the south of it and nearer Barkerville.

If such a line is available, the distance from Vancouver Island to Yellow Head Pass would be correspondingly shortened. One survey indicates that a still shorter route can be found by running as near due east as possible from the crossing of the Chilanco to Yellow Head Pass. This is also one of the reasons why a further survey was recommended. It must be understood that no difficulties are encountered in any part of the route as laid down. It is a perfectly feasible one. The opinion is held, however, that in

been prolonged to the coast. Mr. Grey did not feel warranted in doing any more than indicate the probable course which this road will follow through the central part of the province. Kaien Island, which is the site of Prince Rupert, will be found near the upper

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FEASIBILITI'

Corroborating those who urge viding a ferry c Mainland and V temporary expedi-lowing report has "Proposed Cro Steamers," by White, K.C.B., F. Construc Naval There is undo

across the sea volves consideral bulk and weight train naturally p that both the or on board ship ar must involve ser prejudicially affe behaviour of a popular view have with naval archi pared to face an lems involved in sea of the largest trains. Changes in the propelling tural materials of during the last 40 ed to make the swift and efficience easy, and turbine engines here. the task A first-class par of modern type, p tion for over 400 less than 350 to engine and tende be carried across

be carried across er; and has a to 650 feet. To aco train on the dec would be broken during transit; vessel would ne siderable length point of view of is a very simple the weight named be distributed ov than 300 feet and crate height abo customed, especi customed, espec deal with much deal with much ried in a more and at much grewater. For example, and loading of 12-inch guns, and the armore them, would weight of over I weight would be a more than the same and the same weight would length of about could be carried 30 feet above w lowance is made er dimensions o ing such an a statement of the how much simp which has to be largest and hear a ferry steamer. Special precau of course in con

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