

## Saint Lawrence navigation improvement.

From Archibald's point to rapid plat, a distance of 16 miles 34 chains, there are no obstacles of importance. At point Avoyon the current for a short distance is at the rate of 6 miles per hour, but considering the broad expanse of water, Steam-boats of the ordinary power, will find little difficulty in stemming the current.

At rapid plat a route through the valley of Campbell's and Sawyer's creek may be found more favorable than the one reported upon. In this instance we have confined ourselves to the plan proposed by Messrs. Clowes and Rykert. The cut round the rapid is two miles and 56 chains. We propose contracting the bottom width to 26 feet and to make the necessary lie-by places.

In proposing this scale for the canal, I do not expect that the paddles will be employed at all, and I am led to reduce the dimensions for this reason, that the difference in expense between the proposed dimensions, and that of one sufficiently large to allow the paddles to work without endangering the bank would yield an interest of 150 per cent, above the cost of towing and be equally expeditious, this case will only apply to similar deep cuttings.

Estimated expense for passing this rapid is L51897 6 0.

From the head of rapid plat Steam-boats will find no difficulty in ascending the river, except at point Irroquois where the current is at the rate of six miles per hour, until they reach point Cardinal, at which place we have pursued the same plan with Messrs. Clowes and Rykert.

Amount of cost L5659 7 6

The next point that requires attention is at rapid an Galloppe we overcome this rapid also on the plan of Clowes and Rykert, by making an entire cut from the foot of the rapid into the Saint Lawrence a length of 44 chains, here we make the bottom width 40 feet.

Estimated cost L9877 2 6

At the head of this rapid we have arrived at the foot of Steam boat navigation connected with Lake Ontario.

Total cost of Steam-boat navigation from Cornwall to Prescott is,.....L173648 16 0

### RECAPITULATION.

	L	s.	p.
From Cornwall to Milleroche,.....	3725	0	0
Milleroche,.....	4376	0	0
Dam at do.....	3500	0	0
Pier excavation and embankment,.....	3425	0	0
Milleroche to Moulinette,.....	12858	0	0
Thence to Archibalds point,.....	62545	0	0
Thence to rapid plat,.....	51897	6	0
“ to point cardinal,.....	5659	7	6
“ Galloppe Rapids,.....	9877	2	6
10 per cent contingent,.....	15986	0	0
<b>L</b>	<b>173648</b>	<b>16</b>	<b>0</b>

(Signed) **ALFRED BARRETT,**  
Engineer.

Prescott, December, }  
1830.

### COPY.

A. D. 1830 Anno decimo et undecimo, Geo. 4, Chapter 27.  
An act to appropriate a certain sum of money for ascertaining the best mode of improving the navigation of certain parts of the river Saint Lawrence.

26th March, 1830.

#### MOST GRACIOUS SOVEREIGN.

Whereas it is expedient to ascertain whether it be practicable to improve the navigation of that part of the River Saint Lawrence between the Cascades and Cateau du lac and to determine the best mode of effecting such improvement, if it be practicable.

May it therefore please your Majesty that it may be enacted, and be it enacted by the King's Most Excellent Majesty by and with the advice and consent of the legislative council and assembly of the province of Lower Canada, (the enacting clause) and it is hereby enacted by the authority of the same, that the Governors Lieutenant Governor or person administering the Government, may by an instrument under his hand and seal appoint three commissioners for carrying this act into effect.

2 And be it further enacted by the authority aforesaid, that the said commissioners, shall with all convenient diligence, cause the River Saint Lawrence and the banks thereof, from the Cascades to Coteau du lac, to be examined and surveyed, and shall use their best endeavours to ascertain the most eligible mode of improving the navigation of that part of the said River lying between the said places, so as to enable Batteaux and Durham Boats to ascend the same without taking out any part of their lading or by taking out any determinate portion thereof; taking into consideration, the making of a tow path along the Banks of the said River between the said places and ascertaining as far as may be possible the best mode of making the same, and shall cause an estimate to be made of the probable expense to be incurred in so improving the navigation of the said River and in making such towpath as aforesaid.

3 And be it further enacted by the authority aforesaid, that the said commissioners shall collect the best information it may be in their power to obtain concerning the practicability or impracticability of navigating the said River Saint Lawrence by Steam boats, from the cascades to Prescott, in Upper Canada, the best mode of effecting such navigation if it be practicable, and the expenses which may probably be incurred, if such mode be adopted.

4 And be it further enacted by the authority aforesaid, that the Governor Lieutenant Governor or person administering the government may by warrant or warrants under his hand authorise the advance of a sum not exceeding two hundred and fifty pounds currency, out of any unappropriated monies in the hands of the Receiver General to the said commissioners, for the purpose of defraying the necessary expenses by them incurred in carrying this act into effect.

5 And be it further enacted by the authority aforesaid, that the said commissioners shall within fifteen days after the opening of the next session of the provincial Legislature lay before the several branches thereof a detailed account of their proceedings under the authority of this act and of the manner in which the monies hereby appropriated shall have been laid out and expended, with copies of such surveys, plans and estimates as they shall have caused to be made for the purposes aforesaid.

6 And be it further enacted by the authority aforesaid that the due application of the monies hereby appointed, shall be accounted for to his Majesty his heirs and successors through the Lords commissioners of his Majesty's treasury for the time being in such manner and form as his Majesty, his heirs and successors shall direct.