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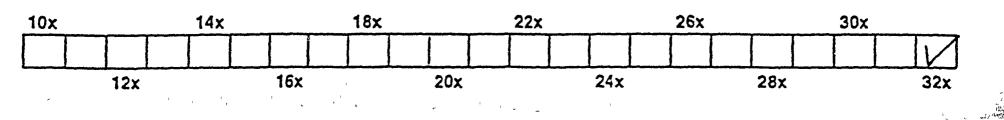
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# GENERAL REPORT.

#### To His Excellency Sir Peregrinc Maitland, Knight Commander of the Most Honorable Military Order of the Bath, Lieutenant Governor of the Province of Upper Canada, Major General Commanding His Majesty's Forces thereis &c. &c.

In pursuance of my instructions of the 9th June last. & having obtained the aid of George Rykert, Assistant Engineer & Surveyor, we proceeded to the Survey of the River St. Lawrence, and now respectfully begleave to submit the following Estimates and Report.

#### TWO ESTIDATES

Of the expense of improving the Navigation and constructing a Canal at the several Rupids in the River St. Lawrence from Johnstown to Cornwall of the following dimensions, viz:--

The first, eight feet in depth, sixty feet in width at the bottom and 84 feet in width at the surface of the water, the banks to slope one foot and a half to one foot perpendicular The Locks to be one hundred and thirty-two feet in length by forty feet in width, with turning bridges forty feet-in the clear, and ten feet wide.

The second four feet in depth, twenty-six feet in width at the bottom, and thirty-eight feet in width at the surface of the water; the banks to slope the same as in the first; the Locks to be one hundred leet in length, by fifteen feet in width, with turning bridges fifteen feet in the clear, and ten feet wide.

	Estimate No. 1, 8 feet Canal.											
, * ,	۰۰. Cubic Yards	Rate S. d.	£ s.	. d.	£ s	a.	No. Cubic Kards. S. d	£	s. d.	£ s. d.		
From, Johnstown to the head of the Galloup Rapid, a distance of 4 miles, the river is well adapted to steam-boat navigation. It will be necessary, however, to form a towing path on the hanks of the small canal. Making towing path At the head of the Galloup rapid we leave the river for a distance of 44 chains. The cutting runs above our level. The situation being however favourable, as the whole of the excavation may be deposited in the river, we purpose contracting the bottom width of the large canal to 40 feet, and that of the small to 17 feet in this place; by which means a great saving will be made. The distance being so short that boats will have no occasion to meet on the canal; besides those descending will naturally take the river, which is practicable in going down. Lock No 1, of 4 feet 6 inch- es lift, will be required in both, where the							1 <b>A</b> AUS.		17 0	986 17 e		
canal will descend into the river at the foot of the rapid. Excavation Pudding Lock No. 1 Fencing' From the foot of the Gulloup rapid the ri- ver is navigable to Point Cardinal, a distance	98310 850	1 1 6	21 2006	50 00	,	76	37055 77 500 6	12	19 4 <u>4</u> 10 0 0 0 0 0	2164 9 4		
of 135 chains; all that will be required is the formation of a towing path along the bank & deepening some shoals for the boat canal. Making Towing Path							447 1		19 0 7 0	475 19 0 *		
Doth, as at the Galloup rapid. Lock No. 2, 0 2 feet 6 inches lift, will be required in each to connect the canal with the river at the foot of Excavation Puddling Lock No. 2 Fencing From point Cardinal to the head of the rapid plat a distance of 11 miles the river is well a dapted to steam boat navigation. No expendent	42683 800		134 20 528 1:		4494 1	50	14037 1 400 6	10 800	17 0 0 0 0 0 10 0	f530 7 0		

and an and the second sec			e No.	1. 8 f	eet Ca	nal.				2, 11	leet Ca	nal.
	So Cubic Yards,	Rate S. d	£ s.	d.	£	. d.	No Cubic Yards,	Rate S d	£ 5.	d.	£s	d.
2 teet to in thit will be ne essary in making a out navigation at Shaver's Island. A towing oth, bridges and deepening several shoals will so be necessary. Excavation Tow path Lock No 3 Pudding At the ripid plat we again forsake the tiver distance of 2 miles 56 chains. Vessels may excend these rapids with safety, but being im-							44837		2752 2887 800 15	63 00 00 00	Ţ	<u>،</u>
acticable to accend, a canal will be necessary sust them on their way up only, which ables us again to contract the bottom width at the upper rapid and avoid an immense antity of deep excavation. In the first mile the cutting is from ten to entworing feet. Thence in the next half mile, descends to 12 feet, after which it rises again adually to 30 feet, and continues above the set to the end. One lock will be required beach to connect the canal with the river be- with crapid. Lock No. 3 in estimate No 1 d lock No. 4 in estimate No 2, being a lift 9 feet 8 inches-2 road bidges will also be						·						`. -
quired Exervation	996926	1	49846				577404	11	26468	96	-	
Lock No. 3 in estimate No. 1 Do. No. 4 in estimate No 2 Pudding	1000	6	3000 25 340 100	0000	53311	60	80L	6	1450 20 140 100	00 00 00 00	28178	9 6.
tural channel A tow path and deepening mals will be required for the 4 feet canal. Excavation in river							43340	1	2167 2296	00 70	4463	70
deposited in the water. Lock No. 4 will be quired in estimate No. 1 and lock No. 5 in b. 2, being a lift of 3 feet 6 in. Excavation	227519	10	9492 2500				175021	9	6553			
Lock No. 5, in estimate No. 2 Puddling From thence to Doctor Archibald's point, a tance of three miles and a quarter, we a- of the natural channel. No expence will refore occur in the 8 feet cand. The for- tion if a towing path and some bridging will	800	6	20 30	00	12049	92	500	6	12	00 100 00	7505	15 9
required for the 4 feet canal. Fow path and bridging From Doctor Archibald's point, we leave river for a distance of 3 miles and 72 ins to pass the Long Sault rapid. From place of departure to Hoople's Creek 40° chain-, chiefly through low and fa- trable cutting. Thence we ascend the ek 60 chains in the first half of which very le expende will be incurred, being a wide ogish stream with an average depth of 7 t water. The remaining half will require pening, the average depth of water being n4 to 5 feet A towing path will be ne- sary along the bank of the 4 feet canal om Hoople's Creek the line runs through and favourable cutting of black soil and				The community					997	12 6	907	12 6
about 2 miles; then it drops into a wide deep ravine which continues to Brownell's the place of entrance, 3 locks will be uired in rach Nos. 5 & 6, each 6 feet hit No. 7 of 6 feet 6 inches in the 8 feet canal locks Nos. 6, 7 & 8 in the 4 feet canal hits being the same. Three rond and one path bridge will also be required. Excavation	763985	10	s1832				311375	9	1167G	15 3	11676	15 3
Locks Nos. 5, 6 & 7 in estimate No. 1 Locks Nos. 6, 7 & 8 in estimate No 2	3000	6	8140 75		39982	14 2	£5C0	6	3962 69	00	•	-
Phree road bridges			510 C40	0 0 0 0			2000	v	210 33 405	0 0 0 0 0 0		
Fencing From Brownell's Bay we proposed adopting natural stream to the head of Mill Roche id. distance 3 miles, a little rock excava- will be unavoidable in the 8 feet canal, at			116	00	1341	0 0 ,			116	00	4788	10 0
nlinette rapid. A towing path and bridges I be required in the 4 feet canal. Rock excavation	596	26	74	00							, <b>x</b>	
Making Towing Path								ļ	608	00	608	00

·	Estimate No. 1 0.4														
	Estimate No. 1, 8 feet Canal.						<u>l.</u>	Estimate No. 2, 4 feet Canal.							
	· ubic	Rai	e £	s. a	.	£	8 d	,	No. Cubic	Rate					
le manual de la construction de	Yards.	<u>s</u> .	7.				~ ~	••	Yarda	8. d	£	s. d	• £ s. d.		
From the nead of Mille Roche to Coruwall Buy, a datance of 5 miles and 00 d	l	1	1				-		1	í	1				
Buy, a distance of 5 miles and 22 chains, we entirely abaudon the river, it is therefore pro-										}	}				
posed to construct a permanent waste worr a-	1	1			1				1	1	1				
cross the stream and raise the water 13 feet									i i	{	ł		i		
perpendicularly, the situation being very suita-	[		}		1				1				1		
our for that purpose, by this means we gain a	l I		1										\$		
dependent 4 feet witter in Brownell's Bay, and	f i	1			1					1			1		
save the expence of deepening the natural bed	F	1			1										
an the way down except a little at Monlinette.		ł	1		1								t		
and by raising the water 18 feet at Mille Roche.			1										Į		
we also avoid the expense of 13 fect in the	li												}		
depth of excavation, the whole distance to	l I									1			1		
Cornwall; besides it will guard the canal against		1	1		•								1		
fluctuations in the river and conduct all the sur- plus water down the natural channel which			1										Ţ		
being at command will be eminently useful for	Å	1			j			į,		1			4		
hydraulic purposes. In the first 2 miles the		!								1					
culture seems considerably above our level	1		{		1										
The nature of the excavation in the first nule	1	}	1										ł .		
is loam and clay mixed, with loose stones; the					)			- []	1	1					
second mile is chief's clay. Thence the cutting	1	1	1						1	Í					
is favourable, (Accpt about 20 chains near the			[						}						
terminution where the line crosses a high stoney															
ridge. Three embankments will be necessary l			1												
in the above distance. A little under water			]							1					
excavation will be required in the Bay for a			}										1 '		
distance of 2 chains, averaging 3 feet cat								1							
ting across a bar directly opposite the en- trance of the canal Four locks will be								- {					1		
trance of the canal Four locks will be required, Nos 8, 9, 10 & 11, in the 8 feet &									1	1			1		
Nos 9, 10, 11 & 12 in the 4 feet canal, the					1				}	{					
lifts being each 7 feet 6 inches. Seven road &								- 11					1		
2 tow path bridges, will also be required															
Excavation	51389	11.1	41629	10	2			bs	13-168	9	13431	60			
Do. in Cornwall Bay	141	5 2		10 1				ľ				•••			
Embanking	34144	10		13 .				ľ	3414.	10	1422	13 4			
Pudding	7105	6	17:					Ŀ	6661	6		14 0			
Locks Nov. 8, 9, 10 & 11 in estimate No. 1	1	-	11200	0 (	, [			ľ					,		
Locks Nos. 9, 10, 11 & 12 in estimate No. 2		[							Į.			C 0			
Waste Weir			1000						1	1	1000				
Seven road bringes			1190	0 (	· ]					!	490		1		
Grubbing										}	99 50	00			
Fencing	1	1	SC			716-	c -	11	1		70 200	00	20003 13 4		
	ł	1	200	0 0	1	7167	07				200	0.0	21/100 30 4		
Total,	1	İ	1		117	6378	8.5						92834 1 11		
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It will be seen by reference to the preceding Estimates that the have calculated the expense of constructing canals upon two different scales.

The first or largest to cost £176,378 \$ 5, and the other £92,334 1 11 1 2. Thus it appears that a safe and permanent line of navigation down the River St. Lawrence to Cornwall for vessels capable of navigating the lakes may be effected at an expense absolutely trifling when compared with the many advantages to be derived from an improvement of this nature.

The above sum- are considered sufficient to complete the work, yet we are aware that in an undertaking like this, unforessen obstacles often present themselves in the progress of the work, and being generally of a contingent nature, it is impossible to ascertain or calculate them actually by the most minute surveys.

A question will naturally arise that will admit of some discussion, as to which of the above scales it would be most expedient to adopt, but upon due reflection upon the comparative advantages and the local situation of the country, we feel decidedly in favor of the largest, being designed both for steam-boat navigation and schooner navigation. One inducement for giving a preference to this so is, as one of primary importance, is the advantages that would accrue to the trade of the Western Districts from the practicability of passing through the canal with such vessels as are suitable to the navigation of the upper lakes. By making it of corresponding dimensions with the Welland Canal, already so far advanced toward completion, it would, in connexion with that work, not only facilitate and expedite transportation, but save a vast expense and inconvenience in breaking bulk and transferring cargoes from one kind of vessel to another, subjecting goods to injury already too frequently experienced by the existing mode of transportation.

We must express our regret, however, that having not been authorised to extend our survey beyond the boundary line of this Province, we are not enabled to give a full and satisfactory statement of the practicability and probable expense for effecting a safe pavigation throughout, without which, the principal object of our enterprise will be but in part attained.

We feel sai guine, nevertheless, that upon proper representation, Lower Canada will come forward with alacrity to unite with us in support of an improvement enhancing their own commercial interests equally with ours. Of this they are no doubt sensible, and will therefore he more ready to co-operate in an undertaking which, without their aid and concurrence, can never be fully accomplished. The Cedar Rapid and Cascades, although serious obstructions in the present navigation, offer (as we are informed) great facilities for improvement.

Then by making the necessary alterations in the Lachine Canal we should open a direct and uninterrupted navigation from one extremity of the Provinces to the other, and might cheerfully inticipate the time, as not fur distant, when vessels of burden would be enabled to pass and repass from Quebec to the most western settlements of this Province.

In taking a nearer view of the objects of this contemplated improvement in the navigation we would beg leave to suggest the great propriety of making a canal for steamboat navigation, for by steambeats we anticipate the greater part of our trade will eventually be carried on Safety and expedition in the transit of goods being two essential requisites in commercial economy.

Stramboats will therefore always have a decided advantage—besides after passing through the canal at the several rapids, they will seek their way up the channel of the river without any interruption, requiring neither towing path nor any other extra expense to assist them on their passage\*up. Whereas sloops and schooners sepending entirely on canvas must in case of contrary winds or calm weather be unavoidably detained or depend upon towing.

In this case a towing path and bridges would require to be constructed upon the banks, the whole course of the river. A channel would also have to be cut through should in many places of great length, and after all an insurmountable difficulty would present itself upon their arrival at Kingston, and cause delays provided they are destined for the Upper settlements.

The same objection as it respects the formation of a towing path, bridges and cutting a changel along the shore is also applicable.

A canal upon the scale recommended would also be of great advantage to the lumber trade, by making the locks to feet wide at proposed, rafts &c of the ordinary size might pass through with case and safety, avoiding the expence of pilots as well as the danger in running over the rapids

It has hitherto been argued that steamhoats are injurious to canals and should therefore not be admitted, but the fallacy of this argument we believe has been fully demonstrated in Europe. At all events we feel convinced that it can only apply to canals of small dimensions.

Having been particularly directed to ascertain the situation of the channel on the north side of Barnbart's Island, we devoted some time to that purpose; finding however upon due examination that all endeavours to render that channel practicable for the transportation of lumber and other produce from the upper country must ultimately prove abortive. There being no possibility of approaching it with safety in descending the river on account of its immediate connexion with the principal rapid of the Long Sault, where no vessels or rafts can ever attempt to descend

The channel along the North side of the island is much contracted and very shoal, without water sufficient to float a loaded boat of the ordinary size. But maxmuch as it is not capable of access at the head, we abandoned all ideas of making improvements on any other part of that channel, besides it might probably be questioned whether we have the right of such improvement since it cannot be done without interfering with the island, which is unfortunately claimed by another government.

By adverting to the estimates it will be seen that from Mille Roche a little above the confinence of the two streams that form Sheek's Island, we propose to construct a waste weir across the north branch in order to raise a sufficient depth of water and entirely abandon the river to Cornwall bay, where our line of Canal terminates. The navigation to the foot of Barnhart's Island being almost exclusively claimed by the State of New York, and the remaining part to Cornwall being obstructed by shoals and rapids, we deemed it inexpedient to attempt any improvement in the natural stream, but make an entire canal on our own shore for which the situation is well adapted.

It is highly gratifying to us to be enabled to state for the information of your Excellency and others, that the natural advantages for the improvement of the nivigation of the river St. Liwrence, are such in general as far exceed our most san\_une anticipations.

The Long Sault, which has been thought an almost resurmountable barrier in the navigation, possesses uncommon facilities for canal operation. The only place on the whole route that will be attended with any particular inconvenience is at the rapid Plat, the lands adjacent to the river hie very high and will cause some deep excavition which it is impossible to avoid.

It has been suggested that the navigation of the river St. Liwrence might be sufficiently improved by deepening the natural bed, constructing locks, Sc and superside the receipts and expense of canals. We feel conscious however from actual survey and due reflection that such opinions could only originate with persons who have not properly examined the nature of the different situations or at least, they cannot be fully aware of the expense and inconvenience that must naturally attend an attempt to effect a channel capable of passing vessels down those rapids where the work would be constantly exposed to interruptions by the water. Partial improvements can probabily be made that would materially assist the passage of boats; but the only effectual method of making a safe channel for vessels of builden is to cut canals where the river cannot interfere. It will be seen however that we propose to adopt the natural channel where it appears practicable. The distance from Johnstown to Cernwall by the river is about 47 miles and the total fair minety hve feet. It may not be unworthy of remark that 13 miles of excavation and eleven locks averaging six feet lifts is all that will be required, (having neither aqueduct or culvert) to effect a complete line of navigation, the whole of the above distance. All the rapids above the Long Sault are practicable in going down, vessels will of course prefer the natural channel being more expeditious and less expensive. It is those ascending only, that will require the enant which allows us to contract the width of those places and greatly reduce the expence.

It would be impossible for us at this moment to anticipate the innumerable advantages that must naturally result from an enterprise like this; neither do we consider it necessary to point out the importance of opening such a line of communication for advancing the prosperity of this country; for if we look back to Europe and even to the state of New York we see the fact fully dem instrated.

With such solutary examples before us, it is to be hoped, that a pry individual acquainted with the geography of our country, and the advantages which the hand of nature has so liberally bestowed upon us, is fully convinced of the profile it would secure to the trade of these Colonies. We shall therefore only attempt to point but a few leading facts immediately connected with our commercial interest.

The St. Lawrence being the shortest and most direct line of communication with the Atlantic, will, by removing a few natural obstructions, ever be the highway for commerce notwithstanding improvements in any other quarter.

The Rideau Canal, if carried into effect upon the plan suggested, will be a most stupendous work, and will in time of war be of infinite importance to the security of this Province; being in the interior it will form a safe depot and open an independent line f communication through the country completely out of reach of the enemy. It will not only be eminently useful in a m litary point of view, but it will also open an outlet to a large extent of fertile conntry bitherto nearly excluded the market, and materially facilitate the transport of lumber from immense forests, now one of the chief sources of trade. Besides, if accomplished by the Imperial Government, (without the aid of the Frovincial fund) as at present contemplated, it will cause a large amount of capital to be brought into and expended in the Colonies which will render it the more desirable. But as it respects our commercial interest in general, the St Lawrence is an object of primary importance, and which should naturally first occupy the attention of uor Legislature, as the particular object in expending money on canals is to facilite and expedite the transportation of our commodities to market. No route, we believe, possesses equal natural advantages with the one now in contemplation; being the shortest, it will always enable forwarding merchants to transport 100s much cheaper and quicker than by any other line, and it is reasonable to suppose that commerce will find its way by the shortest and cheaper troute.

Another important advantage worthy of notice in this work is, the many valuable sites that will be obtained for mills and machine, ry, as there is not a durable stream of water from Kingston to Lower Canada on our side, except the Gananoque, capable of turning mills for manufacturing the quantity of flour necessary for home con-tr ption, an inconvenience severely felt by the inhabitants of a large tract of country which, for the growth of wheat, is not surpassed by any other part of the Province. Among the few mills occasionally in operation, not one of them save on the stream above alluded to) is capable of making good merchantable flour for market, and owing to the fluctuations of the water in the river during the summer, and the accumulation of of ice in the winter, they become so limited in their operations that farmers are frequently compelled to go from 40 to 50 nules and cross into the United Stateto get grinding done, and then (unless they smuggle) their gram is subject to duty in crossing the lines.

Mills and machinery, to any necessary extent, may be erected at Mill Roche, Cornwall, and at the foot of must Rapids where the canal will descend by means of Locks, and where there will be an inexhaustible supply of water at all seasons complete'y at com mand without materially interfering with the navigation.

This, among many others, is an object that will not be the least to stimulate the trade and agriculture of this rising Colony.

Our present shackled mode of conveyance up the St Lawrence causes a very serious impediment to the trade of our upper districts: the enormous rates of transportation amount almost to a prohibition of heavy articles. It excludes merchants & others along the frontier from a fair competition with their American neighbours. The easy access to the New York market by means of their canals, gives them a decided advantage over our trade, and except we effect similar improvements on our line of transit, a great proportion of the commerce of Upper Canada must necessarily seek a vent the same way, which will cause a constant drain of money from this province to the U. S. and encourage smuggling (which no restrictions can ever entirely suppress) to the injury of our revenue. We have not been enabled to collect all the necessary information in order to enter into a minute detail on the comparative advantages that an improved line of navigation would produce. It appears however that the present price of transportation from Montreal to Prescott, a distance of 135 miles, is 4s. per cwt or £4 per ton. Thence to York or Niagara, about 250 miles, the price is 2s. per cwt. or £2 per ton, by which it will appear that owing to the imperfect state of the navigation, one ton of goods costs as much in proportion from Montreal to Prescott as three tons and three quarters from the latter place up, adverting simply to the difference of the expence of carriage and saying nothing of the hazard delay and wear and tear of boats in dragging them over rocks and shoals:

We are not in possession of the rates of transit on the Erie Canal, but are informed that the average cost of a ton of goods is about 3d permile; at which rates 135 miles, the distance from Montreal to Prescott, a ton of goods would only cost £i 13 9 where we now pay £4 making a difference of £2 6 3 on every ton in that distance. A ton of goods from New York to Niagara costs £5. From Montreal in the event of an improved navigation it could not exceed £3 13 9 leaving a balance in favour of Montreal, market, of £i 6 3 on every ton admitting them to be subject to the same rate of tolls the whole distance to Prescott as on the Erie Canal; but the probability is that the expence would be considerably diminished to the latter place as tolls could only be demanded where the canal passes the rapids, whereas on the Erie Canal they pay toll the whole distance, which must give us an advantage in the expence of transportation. Should there be any persons, less sanguine than we are, who still doubt whether the advantages to be

Should there be any persons, less sanguine than we are, who still doubt whether the advantages to be derived from this canal would warrant the undertaking, we would beg leave to refer such to the very able letter written by John Macaulay, Esq. President of the late Commissioners of internal navigation, and subjoined to their report of the 25th February 1825. By which it will be seen that from his immediate knowledge and active researches he has proved beyond a doubt, that a canal by the Rideau, would not only pay the interest on the capital expended, but yield an annual revenue.

It is interest on the capital expended, but yield an annual revenue. The line of intercourse down the St. Lawrence being 54 miles shorter, and having at least 350 feet less lockage, (one of the chief sources of expence on canals) besides many other superior natural advantages. must always command a greater proportion of transit, and will consequently be more productive. All which is humbly submitted,

(Signed)

SAMUEL CLOWES. Principal Engineer.

York, 12th December, 1626.

Printed at the Office of the Colonial Advocate, By Order of the House of Assembly."

Ξ.,

### (Signed)

GEORGE RYKERT, Assistant Engineer.