

C 144324

## CONVENTION AND PROTOCOL

## DETAILS

<b>1. Rental of Construction Equipment—</b>		
1—30 ton locomotive crane at \$30..	\$ 30	
1—1 yd. shovel..	35	
6—trucks at \$15..	90	
6—drills at \$10..	60	
1—compressor..	25	
Fuel and supplies..	25	
130 days at..	\$265	\$34,500
<b>2. Construction Houses..</b>	5,000	5,000
<b>3. Repairing and Maintaining Roads..</b>	5,000	5,000
<b>4. Excavation—</b>		
Area to be covered—		
Around crest..	30,000 sq. ft. x 2=60,000 cu. ft.	
Shoal at crest..	6,000 sq. ft. x 2=12,000 cu. ft.	
First cascade..	10,000 sq. ft. x 3=30,000 cu. ft.	
Miscellaneous..	20,000 cu. ft.	
	122,000	122,000 cu. ft.
	27	4,500 yds.
		22,500
<b>5. Cofferdam—</b>		
Length..	700 feet	
Average depth of water..	4 feet	
Average height of cofferdam..	9 feet	
Average cost per lin. ft..	\$80	
	700 x 80=\$56,000	
<b>6. Submerged Weir—</b>		
Length..	120 ft.	
Width..	12 ft. 0 in.	
Height..	5 ft. 0 in.	
Volume..	2 yds. per lin. ft.	
	120 x 2=240 cu. yds.	
	240 cu yds. at \$22=\$5,300	

## PROPOSED REMEDIAL WORKS—ESTIMATED COST OF SUBMERGED WEIR IN CHIPPEWA-GRASS ISLAND POOL ROCK BOTTOM

## SUMMARY

Plant rental..	\$ 8,600
Stone delivered at site 30,000 yards at \$5..	150,000
Construction roadway at site..	10,000
Construction houses and plant erection..	10,000
Steel trestle 2,800,000 pounds at 4 cents..	112,000
Labour installing trestle..	37,000
Decking and track work 2,000 feet at \$8..	16,000
Precast concrete block anchors for rock fill..	25,000
Removing trestle..	25,000
Placing stone in weir 30,000 yards at \$1.50..	45,000
Total..	\$514,800
Contingencies at 15 per cent..	77,300
Engineering, Superintendence and Overhead at 10 per cent..	51,500
Insurance at 5 per cent..	25,800
Contractor's Profits..	50,000
	719,200
Construction Interest at 3 per cent..	21,500
Total Cost..	\$740,700

## DETAILS

## Construction Equipment Rental

Six trucks at \$15..	\$ 90
One 20-ton locomotive crane..	30
One 40-ton locomotive crane..	60
Eight dump cars at \$10..	80
Electric light plant..	25
Two derricks..	20
One 1-yd. shovel..	50
Ten skips..	30
One compressor..	35
Fuel and supplies..	50
One hundred and eighty days at..	\$470
	\$84,600

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## NIAGARA FALLS AND NIAGARA RIVER

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## PROPOSED REMEDIAL WORKS—ESTIMATED COST OF SUBMERGED WEIR IN CHIPPEWA-GRASS ISLAND POOL HARD PAN BOTTOM

## SUMMARY

1. Plant rental..	\$ 83,000
2. Stone delivered at site 30,000 yards at \$5..	150,000
3. Construction roadway at site..	10,000
4. Construction houses and plant erection..	10,000
5. Pile bents in place 140 at \$200..	28,000
6. Stringers, decking and trackwork 2,000 feet at \$12..	24,000
7. Precast concrete block anchors for rock fill..	25,000
8. Removal of trestle..	15,000
9. Placing stone in weir 30,000 yards at \$1.50..	45,000
Total..	\$390,000
Contingencies at 15 per cent..	58,500
Engineering, Superintendence and Overhead at 10 per cent..	39,000
Insurance at 5 per cent..	19,500
Contractor's Profits..	40,000
	547,000
Construction Interest 3 per cent..	16,400
Total Cost..	\$563,400

## DETAILS

## Construction Equipment Rental

Six trucks at \$15..	\$ 90
Two 20-ton locomotive cranes at \$30..	60
Eight dump cars at \$10..	80
Electric light plant..	25
Two derricks at \$10..	20
One yard shovel..	50
Ten skips at \$3..	30
One compressor..	35
One air hammer pile driver..	20
Fuel and supplies..	50
One hundred and eighty days at..	\$460
	\$83,000

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