

Calc. By: MAF
 Date: 7/12/2010
 Check By: MAP
 Date: 7/12/2010



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 Location:
 Project: 08R0114
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OPINION OF PROBABLE CONSTRUCTION COSTS

OPTION 1 - 10-FT DIAMETER CMP					
Item No.	Description	Quantity	Units	Unit Price	SUBTOTAL Amount
1	Embankment (Additional Volume)	40000	C.Y.	\$ 10.00	\$ 400,000.00
2	10ft Dia. CMP	88	L.F.	\$ 1,000.00	\$ 88,000.00
3	ARRC Std. Bridge, 28' Precast Spans	0	L.F.	\$ 13,000.00	\$ -
				Subtotal	\$ 488,000.00
				10% Contingency	\$ 48,800.00
				Total	\$ 536,800.00
4	Wetland Mitigation Cost (in some areas)	1.5	AC.	\$ 33,000.00	\$ 49,500.00
				Total with Wetland Mitigation	\$ 586,300.00

OPTION 2 - 3 SPAN BRIDGE w/ 10-FT VERTICAL CLEARANCE					
Item No.	Description	Quantity	Units	Unit Price	SUBTOTAL Amount
1	Embankment (Additional Volume)	57000	C.Y.	\$ 10.00	\$ 570,000.00
2	10ft Dia. CMP	0	L.F.	\$ 1,000.00	\$ -
3	ARRC Std. Bridge, 28' Precast Spans	84	L.F.	\$ 13,000.00	\$ 1,092,000.00
				Subtotal	\$ 1,662,000.00
				10% Contingency	\$ 166,200.00
				Total	\$ 1,828,200.00
4	Wetland Mitigation Cost (in some areas)	2.1	AC.	\$ 33,000.00	\$ 69,300.00
				Total with Wetland Mitigation	\$ 1,897,500.00

OPTION 3 - 3 SPAN BRIDGE w/ 15-FT VERTICAL CLEARANCE					
Item No.	Description	Quantity	Units	Unit Price	SUBTOTAL Amount
1	Embankment (Additional Volume)	112000	C.Y.	\$ 10.00	\$ 1,120,000.00
2	10ft Dia. CMP	0	L.F.	\$ 1,000.00	\$ -
3	ARRC Std. Bridge, 28' Precast Spans	84	L.F.	\$ 13,000.00	\$ 1,092,000.00
				Subtotal	\$ 2,212,000.00
				10% Contingency	\$ 221,200.00
				Total	\$ 2,433,200.00
4	Wetland Mitigation Cost (in some areas)	3.6	AC.	\$ 33,000.00	\$ 118,800.00
				Total with Wetland Mitigation	\$ 2,552,000.00

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PORT MACKENZIE RAIL EXTENSION NO STRUCTURE					
Item No.	Description	Quantity	Units	Unit Price	SUBTOTAL Amount
1	Embankment (Additional Volume)	0	C.Y.	\$ 10.00	\$ -
2	10ft Dia. CMP	0	L.F.	\$ 600.00	\$ -
3	Abutment Cap	0	E.A.	\$ 15,000.00	\$ -
4	Backwall Pedestal Cap	0	E.A.	\$ 2,000.00	\$ -
5	Wingwall	0	E.A.	\$ 2,000.00	\$ -
6	Abutment Pile	0	L.F.	\$ 95.00	\$ -
7	Wingwall Pile	0	L.F.	\$ 95.00	\$ -
8	Pier Cap	0	E.A.	\$ 15,000.00	\$ -
9	Pier Pile	0	L.F.	\$ 95.00	\$ -
10	Misc. Steel (Bracing)	0	L.B.	\$ 6.00	\$ -
11	Precast Girder (28ft)	0	E.A.	\$ 16,000.00	\$ -
12					
13					
14					
15					
				Subtotal \$	-
				10% Contingency \$	-
				Total \$	-

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PORT MACKENZIE RAIL EXTENSION OPTION 1 - 10-FT DIAMETER CMP					
Item No.	Description	Quantity	Units	Unit Price	SUBTOTAL Amount
1	Embankment (Additional Volume)	40000	C.Y.	\$ 10.00	\$ 400,000.00
2	10ft Dia. CMP	88	L.F.	\$ 600.00	\$ 52,800.00
3	Abutment Cap	0	E.A.	\$ 15,000.00	\$ -
4	Backwall Pedestal Cap	0	E.A.	\$ 2,000.00	\$ -
5	Wingwall	0	E.A.	\$ 2,000.00	\$ -
6	Abutment Pile	0	L.F.	\$ 95.00	\$ -
7	Wingwall Pile	0	L.F.	\$ 95.00	\$ -
8	Pier Cap	0	E.A.	\$ 15,000.00	\$ -
9	Pier Pile	0	L.F.	\$ 95.00	\$ -
10	Misc. Steel (Bracing)	0	L.B.	\$ 6.00	\$ -
11	Precast Girder (28ft)	0	E.A.	\$ 16,000.00	\$ -
12					
13					
14					
15					
				Subtotal	\$ 452,800.00
				10% Contingency	\$ 45,280.00
				Total	\$ 498,080.00

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PORT MACKENZIE RAIL EXTENSION OPTION 2 - 3 SPAN BRIDGE w/ 10-FT VERTICAL CLEARANCE					
Item No.	Description	Quantity	Units	Unit Price	SUBTOTAL Amount
1	Embankment (Additional Volume)	57000	C.Y.	\$ 10.00	\$ 570,000.00
2	10ft Dia. CMP	0	L.F.	\$ 600.00	\$ -
3	Abutment Cap	2	E.A.	\$ 15,000.00	\$ 30,000.00
4	Backwall Pedestal Cap	2	E.A.	\$ 2,000.00	\$ 4,000.00
5	Wingwall	4	E.A.	\$ 2,000.00	\$ 8,000.00
6	Abutment Pile	480	L.F.	\$ 95.00	\$ 45,600.00
7	Wingwall Pile	360	L.F.	\$ 95.00	\$ 34,200.00
8	Pier Cap	2	E.A.	\$ 15,000.00	\$ 30,000.00
9	Pier Pile	560	L.F.	\$ 95.00	\$ 53,200.00
10	Misc. Steel (Bracing)	400	L.B.	\$ 6.00	\$ 2,400.00
11	Precast Girder (28ft)	6	E.A.	\$ 16,000.00	\$ 96,000.00
12					
13					
14					
15					
				Subtotal	\$ 873,400.00
				10% Contingency	\$ 87,340.00
				Total	\$ 960,740.00

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PORT MACKENZIE RAIL EXTENSION OPTION 3 - 3 SPAN BRIDGE w/ 15-FT VERTICAL CLEARANCE					
Item No.	Description	Quantity	Units	Unit Price	SUBTOTAL Amount
1	Embankment (Additional Volume)	112000	C.Y.	\$ 10.00	\$ 1,120,000.00
2	10ft Dia. CMP	0	L.F.	\$ 600.00	\$ -
3	Abutment Cap	2	E.A.	\$ 15,000.00	\$ 30,000.00
4	Backwall Pedestal Cap	2	E.A.	\$ 2,000.00	\$ 4,000.00
5	Wingwall	4	E.A.	\$ 2,000.00	\$ 8,000.00
6	Abutment Pile	520	L.F.	\$ 95.00	\$ 49,400.00
7	Wingwall Pile	400	L.F.	\$ 95.00	\$ 38,000.00
8	Pier Cap	2	E.A.	\$ 15,000.00	\$ 30,000.00
9	Pier Pile	600	L.F.	\$ 95.00	\$ 57,000.00
10	Misc. Steel (Bracing)	500	L.B.	\$ 6.00	\$ 3,000.00
11	Precast Girder (28ft)	6	E.A.	\$ 16,000.00	\$ 96,000.00
12					
13					
14					
15					
				Subtotal	\$ 1,435,400.00
				10% Contingency	\$ 143,540.00
				Total	\$ 1,578,940.00