

## APPENDIX I - PRELIMINARY COST ESTIMATE

Regional Road 50 (Niagara Street) Bridge Replacement and Watermain Extension  
Conceptual Cost Estimate

Item Description	Unit	Quantity	Unit Cost	Cost Estimate
Mobilization - General	L.S.	1	\$350,000	\$350,000
Access, Work Platforms, Barge	L.S.	1	\$100,000	\$100,000
Environmental Protection	L.S.	1	\$15,000	\$15,000
Traffic Control and Signing	L.S.	1	\$35,000	\$35,000
Removals	L.S.	1	\$250,000	\$250,000
Earth Excavation for Structure	m <sup>3</sup>	900	\$60	\$54,000
Granular Backfill	t	2500	\$40	\$100,000
Concrete for Bridge Structure	m <sup>3</sup>	450	\$1,500	\$675,000
Reinforcing Steel Bar	t	80	\$3,000	\$240,000
Fabrication of Structural Steel	L.S.	1	\$450,000	\$450,000
Delivery of Structural Steel	L.S.	1	\$35,000	\$35,000
Erection of Structural Steel	L.S.	1	\$85,000	\$85,000
Bridge Deck Waterproofing	m <sup>2</sup>	850	\$50	\$42,500
Supply Equipment for Driving Piles	L.S.	1	\$25,000	\$25,000
Steel Tube Piles	m	224	\$350	\$78,400
H-Piles - HP 310x110	m	288	\$300	\$86,400
Cofferdams	L.S.	1	\$150,000	\$150,000
Structural Steel Galvanizing	L.S.	1	\$75,000	\$75,000
Dewatering Structure Excavations	L.S.	1	\$100,000	\$100,000
Supply, Place, and Compact HMA	t	175	\$200	\$35,000
Watermain Installation	L.S.	1	\$350,000	\$350,000
Watermain Attachment	L.S.	1	\$65,000	\$65,000
Bell Ducts Installation	L.S.	1	\$50,000	\$50,000
Concrete Sidewalks	m <sup>2</sup>	120	\$500	\$60,000
Asphalt Milling	m <sup>2</sup>	150	\$75	\$11,250
			Sub-Total	3,517,550
			Contingency @ 25%	879,388
			PROJECT TOTAL	4,396,938