

APPENDIX I - PRELIMINARY COST ESTIMATE

**CITY OF NIAGARA FALLS
DORCHESTER ROAD & OLDFIELD ROAD
INTERSECTION IMPROVEMENTS**

Preliminary Cost Estimate

ITEM	DESCRIPTION	EST. QUAN	UNIT	UNIT PRICE	AMOUNT
SECTION A - GENERAL					
A-1	Bonding	1	L.S.	\$ 50,000.00	\$ 50,000.00
A-2	Construction Layout	1	L.S.	\$ 10,000.00	\$ 10,000.00
A-3	Clearing and Grubbing, Tree and Stump Removal	1	L.S.	\$ 5,000.00	\$ 5,000.00
A-4	Install, Maintain and Remove Silt Control Devices	1	L.S.	\$ 5,000.00	\$ 5,000.00
A-5	Construction signs, traffic control and traffic management plan	1	L.S.	\$ 50,000.00	\$ 50,000.00
A-6	Tree Protection	1	L.S.	\$ 5,000.00	\$ 5,000.00
TOTAL SECTION A - GENERAL:					\$ 125,000.00

SECTION B - ROAD CONSTRUCTION					
B-1	Removals	1	L.S.	\$ 60,000.00	\$ 60,000.00
B-2	Excavation				
	a) Roadway and shoulder excavation	2,350	m ³	\$ 22.00	\$ 51,700.00
B-3	Granular Materials				
	a) Granular 'A'	4,700	t	\$ 20.00	\$ 94,000.00
B-4	Supply and install 100mm diameter perforated high density subdrain with filter sock as per OPSD 216.021 c/w subdrain outlets per OPSD 207.044	450	m	\$ 25.00	\$ 11,250.00
B-5	Construct concrete curb and gutter				
	a) Standard curb and gutter per OPSD 600.040	450	m	\$ 75.00	\$ 33,750.00
B-6	Construct concrete sidewalk				
	a) Standard sidewalk per OPSD 310.010	185	m ²	\$ 100.00	\$ 18,500.00
	b) Curbside sidewalk per OPSD 310.020	185	m ²	\$ 100.00	\$ 18,500.00
	c) Tactile surface at crosswalks (ie. Detectable warming plates)	4	each	\$ 350.00	\$ 1,400.00
B-7	Asphalt Milling	115	m ²	\$ 25.00	\$ 2,875.00
B-8	Supply and application of Tack Coat	4,050	m ²	\$ 1.00	\$ 4,050.00
B-9	Supply, place and compact Hot Mix Asphalt				
	a) HL8 HS base (80 mm)	825	t	\$ 130.00	\$ 107,250.00
	b) HL3 (HS) surface (40 mm)	415	t	\$ 135.00	\$ 56,025.00
	c) HL-3F for driveways (50 mm depth)	10	t	\$ 185.00	\$ 1,850.00
B-10	Adjustment of appurtenances	1	L.S.	\$ 17,000.00	\$ 17,000.00
B-11	Granular driveway	60	m ²	\$ 15.00	\$ 900.00
B-12	Supply and placement of 100 mm topsoil and sod	1150	m ²	\$ 15.00	\$ 17,250.00
B-13	Pavement Markings				
	a) Solid White - 100 mm wide - durable	810	m	\$ 30.00	\$ 24,300.00
	b) Solid White - 600 mm wide - durable	25	m	\$ 65.00	\$ 1,625.00
	c) Solid Yellow - 100 mm wide - durable	255	m	\$ 30.00	\$ 7,650.00
	d) Pavement Marking Symbols	8	each	\$ 200.00	\$ 1,600.00
TOTAL SECTION B - ROADS:					\$ 471,475.00

SECTION C - STORM SEWERS					
C-1	Supply and install DR-35 PVC catchbasin leads including connections (all types) to storm sewers, catchbasin leads and manholes as required				
	a) 300mm diameter	25	m	\$ 375.00	\$ 9,375.00
C-2	Relocate existing precast concrete storm structures:				
	a) Double Catchbasin per OPSD 705.020	4	each	\$ 1,500.00	\$ 6,000.00
C-3	Supply and install culverts:				
	a) 600mm DIA. HDPE	40	m	\$ 350.00	\$ 14,000.00
	b) 750mm DIA. HDPE	30	m	\$ 425.00	\$ 12,750.00
TOTAL SECTION C - STORM SEWERS:					\$ 42,125.00

SECTION D - UTILITIES AND LIGHTING					
D-1	Utility Relocations	1	L.S.	\$ 150,000.00	\$ 150,000.00
D-2	Street Lighting	1	L.S.	\$ 20,000.00	\$ 20,000.00
TOTAL SECTION D - UTILITIES AND LIGHTING:					\$ 170,000.00

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INTERSECTION IMPROVEMENTS**

Preliminary Cost Estimate

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Cost Estimate Summary					
TOTAL SECTION A - GENERAL				\$	125,000.00
TOTAL SECTION B - ROAD CONSTRUCTION				\$	471,475.00
TOTAL SECTION C - STORM SEWERS				\$	42,125.00
TOTAL SECTION D - UTILITIES AND LIGHTING				\$	170,000.00
Sub-total				\$	808,600.00
Contingency (20%)				\$	161,720.00
TOTAL ESTIMATE				\$	970,320.00