

**CONSTRUCTION COST ESTIMATE  
PRELIMINARY**

September 6, 2011

Subject: **BRITANNIA VILLAGE FLOOD CONTROL WORKS**  
Location: **Britannia Village , Ottawa, Ontario**

Project No. **EO2331EO-A**

**Berm Adjacent to Kehoe Townhouse Rear Yards**

Item No.	Description	Unit	Estimated Quantity	Unit Price	Amount
<b>A EARTHWORKS</b>					
1a	Flood control berm - 2778 Rowatt St				
	- imported fill	m <sup>3</sup>	650	30	19,500
	- cobbles and topsoil mix	m <sup>3</sup>	170	35	5,950
	- random rip rap	m <sup>3</sup>	400	35	14,000
1b	Flood control berm - Britannia Park				
	- imported fill	m <sup>3</sup>	660	30	19,800
1c	Flood control berm - Kehoe Townhouses				
	- imported fill	m <sup>3</sup>	450	30	13,500
2	Sediment and erosion control fencing	LS	1	7,500	7,500
				<b>Sub-total A</b>	<b>80,250</b>
<b>B STORM DRAINAGE SYSTEM</b>					
1	Drainage pipe				
	- 250 mm dia HDPE perf. pipe c/w filter sock	m	158	200	31,600
	- 250 mm dia HDPE tee c/w frame and grate	ea	2	600	1,200
	- 250 mm dia HDPE elbow c/w frame and grate	ea	15	500	7,500
	- 250 mm dia rear yard connections - Kehoe Townhouses	m	110	250	27,500
	- 250 mm PVC pipe	m	250	250	62,500
	- 300 mm PVC pipe	m	31	350	10,850
2	MH and CB				
	1200 mm dia MH		7	4,500	31,500
	600mm x 600mm CB		2	2,500	5,000
2	Connect to existing storm sewer including restoration		3	7,500	22,500
3	CCTV inspection - post construction		592	6	3,552
				<b>Sub-total B</b>	<b>203,702</b>
<b>C PATHWAY REINSTATEMENT</b>					
1	Existing asphalt walkway removal	m <sup>2</sup>	70	15	1,050
2	Excavation and grading	m <sup>2</sup>	100	25	2,500
3	New asphalt walkway	m <sup>2</sup>	70	100	7,000
				<b>Sub-total C</b>	<b>10,550</b>
<b>D CONCRETE WALLS</b>					
1	Jamieson Street Boat Launch - raise existing	m	15	490	7,350
2	156 and 164 Kehoe Street - remove block wall and raise	m	45	815	36,675
3	170 Kehoe Street - raise existing	m	19	490	9,310
4	Kehoe Townhouses - corbels	m		880	-
5	Between 176 Kehoe & 180 Kehoe	m	22	550	12,100
				<b>Sub-total D</b>	<b>65,435</b>

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<b>E ARMOUR STONE REVETMENT</b>					
1	Armour stone	t	305	100	30,500
2	Filter stone	m <sup>3</sup>	80	40	3,200
3	Filter Fabric	m <sup>2</sup>	165	5	825
4	Concrete wall	m	30	750	22,500
5	Excavation and grading	LS	1	3,000	3,000
				<b>Sub-total E</b>	<b>60,025</b>
<b>F SURFACE RESTORATIONS AND IMPROVEMENTS</b>					
1	Rearyard restoration	LS	1	10,000	10,000
2	Kehoe Townhouse walkway - remove and reinstall unit pavers	m <sup>2</sup>		125	-
3	Between 176 Kehoe & 180 Kehoe - remove and reinstall pavers	m <sup>2</sup>	45	125	5,625
				<b>Sub-total F</b>	<b>15,625</b>
<b>G LANDSCAPING</b>					
1	Topsoil, seed and mulch	m <sup>2</sup>	10,000	8	80,000
2	Plantings	ea	6	500	3,000
				<b>Sub-total G</b>	<b>83,000</b>
	<b>Sub-total</b>				<b>518,587</b>
	<b>Contingency (15%)</b>				<b>77,800</b>
	<b>Construction Management (15%)</b>				<b>77,800</b>
				<b>Total</b>	<b>674,187</b>