

**Square One Drive Extension Municipal Class Environmental Assessment  
Environmental Study Report**

Appendix N Cost Estimate

**Appendix N COST ESTIMATE**



Item	Description	Unit	Qty	Unit Cost	Total Cost
<b>Part A - Roadway</b>					
A001	Earth Excavation (Grading)	cu.m.	2,706	\$ 30.00	\$ 81,177.53
A002	Stripping	cu.m.	811	\$ 25.00	\$ 20,286.26
A003	HL1 Surface Course (Square One Drive extension)	tonne	156	\$ 105.00	\$ 16,388.07
A004	HDBC Binder Course (Square One Drive extension)	tonne	375	\$ 100.00	\$ 37,489.04
A005	Granular A (Square One Drive extension)	tonne	734	\$ 25.00	\$ 18,361.98
A006	Granular B (Square One Drive extension)	tonne	1,224	\$ 25.00	\$ 30,603.30
A007	HL1 Surface Course (Square One Drive & Confederation Parkway intersection)	tonne	120	\$ 105.00	\$ 12,558.51
A008	HDBC Binder Course (Square One Drive & Confederation Parkway intersection)	tonne	345	\$ 100.00	\$ 34,474.35
A009	Granular A (Square One Drive & Confederation Parkway intersection)	tonne	563	\$ 25.00	\$ 14,071.16
A010	Granular B (Square One Drive & Confederation Parkway intersection)	tonne	1,079	\$ 25.00	\$ 26,969.73
A011	Concrete Curb & Gutter	m	389	\$ 60.00	\$ 23,312.64
A012	Asphalt Multi-Use Pathway, Including Excavation & Granular Base	sq.m.	406	\$ 35.00	\$ 14,210.81
A013	Pavement Markings, All Types (10 cm width equivalent)	m	1,804	\$ 5.00	\$ 9,018.22
A014	Replaceable Cast-in-Place Detectable/Tactile Warning Surfaces	sq.m.	25	\$ 375.00	\$ 9,375.00
<b>TOTAL PART A</b>					<b>\$ 348,296.60</b>
<b>Part B - Storm Sewer</b>					
B001	1200 mm Manhole	each	1	\$ 4,750.00	\$ 4,750.00
B002	600 mm X 600 mm Precast Concrete Catchbasin	each	4	\$ 2,750.00	\$ 11,000.00
B003	300 mm Catchbasin Lead	m	15	\$ 275.00	\$ 4,079.35
B004	450 mm Concrete Storm Sewer, Granular Backfill	m	70	\$ 325.00	\$ 22,827.35
<b>TOTAL PART B</b>					<b>\$ 42,656.70</b>
<b>Part C - Landscaping &amp; Streetscaping</b>					
C001	Tree Removal	each	5	\$ 50.00	\$ 250.00
C002	Deciduous Shade Trees	each	10	\$ 500.00	\$ 5,000.00
C003	Coniferous Trees	each	3	\$ 400.00	\$ 1,200.00
C004	Deciduous Shrubs	each	3	\$ 15.00	\$ 45.00
C005	Concrete Unit Paving - Pedestrian	sq.m.	588	\$ 120.00	\$ 70,560.00
C006	Splash Pad Paving	sq.m.	300	\$ 100.00	\$ 30,000.00
C007	Structural Soil Cell	cu.m.	250	\$ 600.00	\$ 150,000.00
C008	Topsoil & Sod	sq.m.	236	\$ 7.50	\$ 1,770.00
<b>TOTAL PART C</b>					<b>\$ 258,825.00</b>
<b>Part D - Signals and Streetlighting</b>					
D001	Streetlights - Light Pole	each	3	\$ 8,000.00	\$ 24,000.00
D002	Signalized Intersection (Square One Drive & Confederation Parkway intersection)	each	1	\$ 425,000.00	\$ 425,000.00
<b>TOTAL PART D</b>					<b>\$ 449,000.00</b>
<b>Part E - Miscellaneous/General</b>					
E001	Mobilization/Demobilization	L.S.	1	\$ 50,000.00	\$ 50,000.00
E002	Construction Staging	L.S.	1	\$ 75,000.00	\$ 75,000.00
E003	Construction Layout	L.S.	1	\$ 25,000.00	\$ 25,000.00
<b>TOTAL PART E</b>					<b>\$ 150,000.00</b>
Subtotal					\$ 1,248,780.00
Contingency Allowance (30%)					\$ 374,640.00
Engineering and Contract Administration (12%)					\$ 194,810.00
<b>TOTAL (Exclusive of HST)</b>					<b>\$ 1,818,230.00</b>

Item	Description	Unit	Qty	Unit Cost	Total Cost
<b>Part A - Roadway</b>					
A001	Earth Excavation (Grading)	cu.m.	3,018	\$ 30.00	\$ 90,543.93
A002	Stripping	cu.m.	1,990	\$ 25.00	\$ 49,758.35
A003	HL1 Surface Course - Square One Drive	tonne	68	\$ 105.00	\$ 7,176.72
A004	HDHC Binder Course - Square One Drive	tonne	148	\$ 100.00	\$ 14,775.59
A005	Granular A - Square One Drive	tonne	322	\$ 25.00	\$ 8,041.14
A006	Granular B - Square One Drive	tonne	536	\$ 25.00	\$ 13,401.90
A007	HL1 Surface Course - Square One Drive & Rathburn Road West roundabout	tonne	195	\$ 105.00	\$ 20,488.59
A008	HDHC Binder Course - Square One Drive & Rathburn Road West Roundabout	tonne	609	\$ 100.00	\$ 60,930.13
A009	Granular A - Square One Drive & Rathburn Road West roundabout	tonne	918	\$ 25.00	\$ 22,956.41
A010	Granular B - Square One Drive & Rathburn Road West roundabout	tonne	1,530	\$ 25.00	\$ 38,260.68
A011	HL1 Surface Course - Rathburn Road West	tonne	616	\$ 105.00	\$ 64,631.50
A012	HDHC Binder Course - Rathburn Road West	tonne	1,331	\$ 100.00	\$ 133,064.85
A013	Granular A - Rathburn Road West	tonne	2,897	\$ 25.00	\$ 72,416.24
A014	Granular B - Rathburn Road West	tonne	3,983	\$ 25.00	\$ 99,572.34
A015	Concrete Curb & Gutter	m	1,541	\$ 60.00	\$ 92,481.42
A016	Concrete Median Islands	sq.m.	1,131	\$ 75.00	\$ 84,823.88
A017	Concrete Sidewalk & Transit Pads, Including Excavation and Granular Base	sq.m.	317	\$ 75.00	\$ 23,749.35
A018	Asphalt Multi-Use Pathway, Including Excavation & Granular Base	sq.m.	1,736	\$ 35.00	\$ 60,751.57
A019	Pavement Markings, All Types (10 cm width equivalent)	m	3,251	\$ 5.00	\$ 16,254.17
A020	Replaceable Cast-in-Place Detectable/Tactile Warning Surfaces	sq.m.	55	\$ 375.00	\$ 20,625.00
A021	Splash Pad, Including Excavation & Granular Base	sq.m.	573	\$ 75.00	\$ 42,969.23
<b>TOTAL PART A</b>					<b>\$ 1,037,672.97</b>
<b>Part B - Storm Sewer</b>					
B001	1200 mm Manhole	each	2	\$ 4,750.00	\$ 9,500.00
B002	600 mm X 600 mm Precast Concrete Catchbasin	each	2	\$ 2,750.00	\$ 5,500.00
B003	600 mm X 1450 mm Precast Concrete Catchbasin	each	2	\$ 4,500.00	\$ 9,000.00
B004	300 mm PVC Catchbasin Lead	m	30	\$ 275.00	\$ 8,250.00
B005	450 mm Concrete Storm Sewer, Granular Backfill	m	50	\$ 325.00	\$ 16,250.00
B006	525 mm Concrete Storm Sewer, Granular Backfill	m	70	\$ 350.00	\$ 24,500.00
B007	Relocate existing Catchbasin, extend lead	ea	10	\$ 3,250.00	\$ 32,500.00
<b>TOTAL PART B</b>					<b>\$ 73,000.00</b>
<b>Part C - Landscaping &amp; Streetscaping</b>					
C001	Tree Removal	each	47	\$ 50.00	\$ 2,350.00
C002	Deciduous Shade Trees	each	41	\$ 500.00	\$ 20,500.00
C003	Vines	each	54	\$ 15.00	\$ 810.00
C004	Additional replacement trees	each	43	\$ 500.00	\$ 21,500.00
C005	Concrete Unit Paving - Pedestrian	sq.m.	1,282	\$ 120.00	\$ 153,800.88
C006	Splash Pad Paving	sq.m.	351	\$ 100.00	\$ 35,100.00
C007	Structural Soil Cell	cu.m.	60	\$ 600.00	\$ 36,000.00
C008	Topsoil & Sod	sq.m.	3,471	\$ 7.50	\$ 26,032.50
<b>TOTAL PART C</b>					<b>\$ 296,093.38</b>
<b>Part D - Signals and Streetlighting</b>					
D001	Streetlights - Light Pole	each	24	\$ 7,500.00	\$ 180,000.00
<b>TOTAL PART D</b>					<b>\$ 180,000.00</b>
<b>Part E - Miscellaneous/General</b>					
E001	Mobilization/Demobilization	L.S.	1	\$ 100,000.00	\$ 100,000.00
E002	Construction Staging	L.S.	1	\$ 300,000.00	\$ 300,000.00
E003	Construction Layout	L.S.	1	\$ 100,000.00	\$ 100,000.00
<b>TOTAL PART E</b>					<b>\$ 500,000.00</b>
Subtotal					\$ 2,086,770.00
Contingency Allowance (30%)					\$ 626,040.00
Engineering and Contract Administration (12%)					\$ 325,540.00
Relocation of Enersource load centres (3)					\$ 11,000,000.00
<b>TOTAL (Exclusive of HST)</b>					<b>\$ 14,038,350.00</b>