

# APPENDIX

## Q DETAILED COST ESTIMATE



Title: **Arterial A2 and Coleraine Drive Functional Cost Estimates**  
 Location: **City of Brampton**  
 Last Update: **September 25, 2022**

				Cost Estimate			
				Coleraine		A2	
Item	Item Description	Unit	Unit Price	Quantity	Amount	Quantity	Amount
<b>General</b>							
A1	Bonding						
	a) 100% Performance Labour and Materials Bond	LS	\$165,000.00	1	\$165,000	1	\$165,000
A2	Pre-Construction Survey	LS	\$55,000.00	1	\$55,000	1	\$55,000
A3	Site Office	LS	\$25,000.00	1	\$25,000	1	\$25,000
A4	Construction Layout	LS	\$40,000.00	1	\$40,000	1	\$40,000
A5	Traffic Control and Staging	LS	\$82,500.00	1	\$82,500	1	\$82,500
A6	Clearing and Grubbing						
	a) Remove and dispose of bush, including hedges and roots, and trees less than 100 mm diameter	LS	\$82,500.00	1	\$82,500	1	\$82,500
	b) Tree and stump removal - greater than and equal to 100mm diameter	LS	\$55,000.00	1	\$55,000	1	\$55,000
A7	Construction Signs, Traffic Control and Traffic Management Plan	LS	\$110,000.00	1	\$110,000	1	\$110,000
	<b>Subtotal Section A</b>				<b>\$615,000</b>		<b>\$615,000</b>
<b>Roadwork</b>							
	Earth Excavation	m <sup>3</sup>	\$27.50	27,165	\$747,044	61,434	\$1,689,443
	Earth Borrow (Clean Fill)	m <sup>3</sup>	\$27.50	105,876	\$2,911,585	69,047	\$1,898,780
	Asphalt Removal Full Depth	m <sup>2</sup>	\$6.60	26,000	\$171,600		\$0
	Area of Asphalt	m <sup>2</sup>		56,825		79,152	
	Wearing Course	t	\$82.50	9,080	\$749,103	10,690	\$881,929
	Upper Binding Course (50 mm)	t	\$82.50	9,080	\$749,103	10,690	\$881,929
	Lower Binding Course (50 mm)	t	\$82.50	9,080	\$749,103	10,690	\$881,929
	Road Base (150 mm)	t	\$22.00	27,240	\$599,282	32,070	\$705,543
	Sub Base (500 mm)	t	\$22.00	90,800	\$1,997,607	106,900	\$2,351,810
	Tack Coat	m <sup>2</sup>	\$0.55	56,825	\$31,254	79,152	\$43,534
	Concrete Curb and Gutter	m	\$71.50	13,284	\$949,806	12,740	\$910,910
	150mm Subdrain Including Geotextile	m	\$27.50	6,642	\$182,655	6,370	\$175,175
	Pavement Markings - Permanent	LS	\$55,000.00	1	\$55,000	1	\$55,000
	3m Wide HL3 Asphalt Path	m <sup>2</sup>	\$13.20	19,926	\$263,023	19,110	\$252,252
	150mm Concrete Maintenance Strip	m <sup>2</sup>	\$66.00	6,642	\$438,372	6,370	\$420,420
	150mm Concrete Median	m <sup>2</sup>	\$66.00	6,642	\$438,372	6,370	\$420,420
	Seed and Mulch and 100mm Imported Topsoil	m <sup>2</sup>	\$5.50	146,124	\$803,682	101,920	\$560,560
	914mm x 610mm Tactile Warning Plates	ea	\$495.00	40	\$19,800	56	\$27,720
	<b>Subtotal Section B</b>				<b>\$11,856,390</b>		<b>\$12,157,352</b>
<b>Storm Sewer</b>							
C1	Supply and place 300 mm concrete storm sewer pipe	m	\$100.00	85	\$8,500	0	\$0
C2	Supply and place 375 mm concrete storm sewer pipe	m	\$122.00	100	\$12,200	0	\$0
C3	Supply and place 450 mm concrete storm sewer pipe	m	\$126.00	200	\$25,200	0	\$0
C4	Supply and place 525 mm concrete storm sewer pipe	m	\$137.00	300	\$41,100	0	\$0
C5	Supply and place 600 mm concrete storm sewer pipe	m	\$185.00	100	\$18,500	0	\$0
C6	Supply and place 675 mm concrete storm sewer pipe	m	\$283.00	200	\$56,600	0	\$0
C7	Supply and place 750 mm concrete storm sewer pipe	m	\$373.00	380	\$141,740	0	\$0
C8	Supply and place 825 mm concrete storm sewer pipe	m	\$433.00	350	\$151,550	0	\$0
C11	Supply and place 150 mm PVC catch basin lead pipe	m	\$60.00	567	\$34,020	0	\$0
C12	Supply and place 250 mm PVC catch basin lead pipe	m	\$75.00	20	\$1,500	0	\$0
C13	Supply and place 1200 mm dia. precast concrete manhole OPSD 701.010	ea	\$2,450.00	11	\$26,950	1	\$2,450
C14	Supply and place 1500 mm dia. precast concrete manhole OPSD 701.011	ea	\$4,470.00	6	\$26,820	3	\$13,410
C15	Supply and place 1800 mm dia. precast concrete manhole OPSD 701.012	ea	\$6,950.00	2	\$13,900	0	\$0
C16	Supply and place 2400 mm dia. precast concrete manhole OPSD 701.013	ea	\$11,200.00	1	\$11,200	1	\$11,200
C18	Supply and place 600x600 catch basin OPSD 705.010	ea	\$900.00	65	\$58,500	0	\$0
C19	Supply and place twin inlet catch basin OPSD 705.020	ea	\$1,900.00	2	\$3,800	0	\$0
C20	Supply and place frames and grates OPSD 400.010	ea	\$150.00	69	\$10,350	0	\$0
C21	Supply and place frames and grates OPSD 401.010	ea	\$150.00	20	\$3,000	0	\$0
	<b>Subtotal Section C</b>				<b>\$645,430</b>		<b>\$27,060</b>
<b>Traffic Signals</b>							
D1	Full intersection signalization	LS	\$330,000.00	5	\$1,650,000	7	\$2,310,000
	<b>Subtotal Section D</b>				<b>\$1,650,000</b>		<b>\$2,310,000</b>
<b>Street Lighting</b>							
D1	Standard Street Lighting	m	\$330.00	6,642	\$2,191,860	6,370	\$2,102,100

<b>Subtotal Section D</b>					<b>\$2,191,860</b>		<b>\$2,102,100</b>
<b>Utility Relocations (Estimated)</b>							
E1	Hydro	m	\$1,100.00	3,200	\$3,520,000	270	\$297,000
E2	Bell	m	\$220.00	3,200	\$704,000	500	\$110,000
E3	Gas	m	\$143.00	2,500	\$357,500		\$0
E4	Watermain	m	\$550.00	2,200	\$1,210,000	140	\$77,000
E5	Sanitary Sewer	m	\$385.00	2,500	\$962,500		\$0
<b>Subtotal Section E</b>					<b>\$6,754,000</b>		<b>\$484,000</b>
<b>Structural</b>							
E1	Concrete Bridge Structure (Rainbow Creek)	m <sup>2</sup>	\$5,500.00	412	\$2,266,000	1,875	\$10,312,500
E2	Retaining Walls (Rainbow Creek)	m <sup>2</sup>	\$770.00		\$0	600	\$462,000
E3	Bridge Structure (Overpass)	m <sup>2</sup>	\$5,500.00		\$0	2,300	\$12,650,000
E4	Retaining Walls (SPUI)	m <sup>2</sup>	\$770.00		\$0	160	\$123,200
<b>Subtotal Section E</b>					<b>\$2,266,000</b>		<b>\$23,547,700</b>

<b>Summary</b>			<b>Coleraine</b>		<b>A2</b>	
General				\$620,000		\$620,000
Roadwork				\$11,860,000		\$12,160,000
Storm Sewer				\$650,000		\$30,000
Traffic Signals				\$1,650,000		\$2,310,000
Street Lighting				\$2,191,860		\$2,102,100
Utility Relocations (Estimated)				\$6,754,000		\$484,000
Structural				\$2,270,000		\$23,550,000
30% Contingency				\$7,800,000		\$12,380,000
Property	m <sup>2</sup>	\$834.00	133,000	\$110,900,000	101,000	\$84,200,000
<b>TOTAL TENDER</b>				<b>\$144,700,000</b>		<b>\$137,800,000</b>