

Detailed Costing Spreadsheets

**New East-West Road Corridor (Highway 6 to east
of Brant Street)**

APPENDIX M

Cost Estimate

ROAD NAME:		Imp. Type: 2R-NC2F & 2R-RC2F			
From:	Hwy 6	To:	Roundabout #1 (includes roundabout)		
Road Length (m):	1140	ROW Width (m):	36		
Number of Lanes:	2	Lane Width (m):	3.65		
Flush Median Width (m):	2	Raised Median Width (m):	0		
CROSS-SECTION FOR LEFT SIDE:			CROSS-SECTION FOR RIGHT SIDE:		
Cross-Section (Rural/Urban): RURAL			Cross-Section (Rural/Urban): RURAL		
Paved Road Width (m): 5.65			Paved Road Width (m): 5.65		
Paved Shoulder Width (m): 1			Paved Shoulder Width (m): 1		
Granular Shoulder Width (m): 2.5			Granular Shoulder Width (m): 2.5		
Sidewalk Width (m): 0			Sidewalk Width (m): 0		
Bike Path Width (m): 0			Bike Path Width (m): 0		
Street Lighting (Y/N): N			Street Lighting (Y/N): N		
No.	Item	Unit	Estimated Quantity	Unit Price	Total
A ROADWORKS & DRAINAGE					
1	Clearing and Grubbing	ha.	5	\$10,000.00	\$47,160.00
2	Remove Ex. Asphalt (Full Depth)	m ²	0	\$6.50	\$0.00
3	Remove Ex. Asphalt (Partial Depth)	m ²	0	\$5.50	\$0.00
11	Concrete Splash Pad (0.3 m width, 150 mm depth)	m ²	0	\$50.00	\$0.00
15	Single Steel Beam Guide Rail	m	0	\$100.00	\$0.00
16	End Treatment for Steel Beam Guide Rail	ea.	0	\$5,000.00	\$0.00
21	150 mm Subdrain	m	0	\$26.00	\$0.00
35	Entrance Modifications/Regrading	L.S.	0	\$15,000.00	\$0.00
4	Earth Excavation	m ³	24916	\$15.00	\$373,736.22
6	Granular A (150 mm depth)	tonnes	9376	\$22.00	\$206,274.02
7	Granular B (450 mm depth)	tonnes	20145.28	\$19.00	\$382,760.40
9	Surface Course Asphalt (40 mm depth)	tonnes	1331	\$90.00	\$119,753.55
10	Base Course Asphalt (120 mm depth)	tonnes	3305.768	\$81.00	\$267,767.17
12	Concrete Curb and Gutter (All types)	m	0	\$55.00	\$0.00
13	Sod c/w 100 mm Topsoil	m ²	0	\$6.50	\$0.00
14	Seeding c/w 100 mm Topsoil	m ²	7860	\$5.00	\$39,300.00
17	300 mm Storm Sewer Laterals	m	0	\$250.00	\$0.00
18	375 - 600 mm Storm Sewer	m	0	\$375.00	\$0.00
22	Single Catchbasins	ea.	0	\$2,000.00	\$0.00
24	Storm Maintenance Holes/MHCBs	ea.	0	\$4,700.00	\$0.00
36	Minor Roadworks & Drainage Items			15.00%	\$208,438.70
Subtotal Roadworks & Drainage					\$1,645,190.06
B STRUCTURES					
44A	Retaining Walls (RSS)	m ²	0	\$700.00	\$0.00
Subtotal Structures					\$0.00
C LANDSCAPING/MITIGATION					
45	Deciduous Trees (12 m spacing)	ea.	210	\$500.00	\$105,000.00
46	Mitigation and Compensation for Watercourse Crossings	m	0	\$1,000.00	\$0.00
Subtotal Landscaping/Mitigation					\$105,000.00
D ELECTRICAL					
47	Traffic Signalization (per intersection)	ea.	1	\$200,000.00	\$200,000.00
48	Modifications to Ex. Traffic Signalization (per intersection)	ea.	0	\$120,000.00	\$0.00
49	Street Lighting (per pole)	ea.	0	\$5,000.00	\$0.00
Subtotal Electrical					\$200,000.00
E PROPERTY					
50	Existing Residential Lands	acre	0.00	\$750,000.00	\$0.00
51	Vacant Lands	acre	0.00	\$600,000.00	\$0.00
52	Flood Plain Lands	acre	0.00	\$10,000.00	\$0.00
53	Agricultural Lands	acre	9.43	\$125,000.00	\$1,178,750.00
Subtotal Property					\$1,178,750.00
F MISCELLANEOUS & SPECIAL MITIGATION					
56	Asphalt Path	m ²	0	\$53.00	\$0.00
57	Concrete Sidewalk	m ²	200	60	\$12,000.00
	1.2m Long Banners for Light Standards (in Roundabout)	ea.		\$130.00	\$0.00
Subtotal Miscellaneous/Special Requirements					\$12,000.00
G HIGHWAY 6 RECONSTRUCTION					
1	Earth Excavation	m ³	4935	\$15.00	\$74,025.00
2	Granular A (150 mm depth)	tonnes	2179	\$6.50	\$14,163.50
3	Granular B (450 mm depth)	tonnes	5165	\$5.50	\$28,407.50
4	Surface Course Asphalt (40 mm depth)	tonnes	439	\$15.00	\$6,585.00
5	Base Course Asphalt (120 mm depth)	tonnes	1231	\$8.00	\$9,848.00
6	Concrete Curb and Gutter (All types)	m	154	\$22.00	\$3,388.00
7	150 mm Subdrain	m	154	\$19.00	\$2,926.00
Subtotal Highway 6					\$139,343.00
H UTILITIES & SERVICES					
1	Bell	L.S.	1	N/A	N/A
2	Hydro	L.S.	1	N/A	N/A
3	Gas	L.S.	1	N/A	N/A
4	Cable	L.S.	1	N/A	N/A
5	Oil Pipelines	L.S.	1	N/A	N/A
6	Hydro One	L.S.	1	N/A	N/A
54	Utility Pole (minor)	ea.	0	\$2,000.00	\$0.00
55	Utility Pole (major)	ea.	0	\$5,000.00	\$0.00
Subtotal Utilities (5% allowance)					\$98,109.50
I CONTINGENCY					
Subtotal All Items (excluding Property)					\$2,199,642.56
Contingency 10%					\$219,964.26
J ENGINEERING					
Subtotal All Items (excluding Property)					\$2,199,642.56
Contingency 10%					\$219,964.26
K TOTAL ESTIMATED COST (excluding GST)					\$3,818,321.08

ROAD NAME:	2 LANE URBAN - 5 m FLUSH MEDIAN		Imp. Type: 4U-NC2F & 4U-RC2F
From:	East of Roundabout #1	To:	Centre Road (includes intersection)
Road Length (m):	2080	ROW Width (m):	32
Number of Lanes:	2	Lane Width (m):	3.65
Flush Median Width (m):	3.0	Raised Median Width (m):	0

CROSS-SECTION FOR LEFT SIDE:		CROSS-SECTION FOR RIGHT SIDE:	
Cross-Section (Rural/Urban):	URBAN	Cross-Section (Rural/Urban):	URBAN
Paved Road Width (m):	5.15	Paved Road Width (m):	5.15
Paved Shoulder Width (m):	0	Paved Shoulder Width (m):	0
Granular Shoulder Width (m):	0	Granular Shoulder Width (m):	0
Sidewalk Width (m):	0	Sidewalk Width (m):	1.5
Bike Path Width (m):	0	Bike Path Width (m):	4
Street Lighting (Y/N):	N	Street Lighting (Y/N):	Y

No.	Item	Unit	Estimated Quantity	Unit Price	Total
A ROADWORKS & DRAINAGE					
1	Clearing and Grubbing	ha.	8	\$10,000.00	\$84,531.20
2	Remove Ex. Asphalt (Full Depth)	m ²	0	\$6.50	\$0.00
3	Remove Ex. Asphalt (Partial Depth)	m ²	0	\$5.50	\$0.00
11	Concrete Splash Pad (0.3 m width, 150 mm depth)	m ²	1248	\$50.00	\$62,400.00
15	Single Steel Beam Guide Rail	m	0	\$100.00	\$0.00
16	End Treatment for Steel Beam Guide Rail	ea.	0	\$5,000.00	\$0.00
21	150 mm Subdrain	m	3610	\$26.00	\$93,860.00
35	Entrance Modifications/Regrading	L.S.	0	\$15,000.00	\$0.00
4	Earth Excavation	m ³	0	\$15.00	\$0.00
5	Earth Borrow	m ³	32524.31	\$15.00	
6	Granular A (150 mm depth)	tonnes	7651	\$22.00	\$168,318.74
7	Granular B (450 mm depth)	tonnes	20726.68	\$19.00	\$393,806.96
9	Surface Course Asphalt (40 mm depth)	tonnes	1954.995	\$90.00	\$175,949.55
10	Base Course Asphalt (120 mm depth)	tonnes	5828.883	\$81.00	\$472,139.48
12	Concrete Curb and Gutter (All types)	m	3610	\$55.00	\$198,550.00
13	Sod c/w 100 mm Topsoil	m ²	15600	\$6.50	\$101,400.00
14	Seeding c/w 100 mm Topsoil	m ²	0	\$5.00	\$0.00
16	Asphalt Path	m ²	0		
17	300 mm Storm Sewer Laterals	m	434	\$250.00	\$108,500.00
18	375 - 600 mm Storm Sewer	m	2080	\$375.00	\$780,000.00
22	Single Catchbasins	ea.	84	\$2,000.00	\$168,000.00
24	Storm Maintenance Holes/MHCBs	ea.	21	\$4,700.00	\$98,700.00
36	Minor Roadworks & Drainage Items			15.00%	\$423,243.71
Subtotal Roadworks & Drainage					\$3,329,399.64
B STRUCTURES					
42	Borer's Creek crossing	m ²	340	\$3,200.00	\$1,088,000.00
43	Tributary to Borer's Creek	L.S.	1	\$500,000.00	\$500,000.00
Subtotal Structures					\$1,588,000.00
C LANDSCAPING/MITIGATION					
45	Deciduous Trees (12 m spacing)	ea.	490	\$500.00	\$245,000.00
46	Mitigation and Compensation for Vegetation Removal	m ²	10000	\$15.00	\$150,000.00
Subtotal Landscaping/Mitigation					\$395,000.00
D ELECTRICAL					
47	Traffic Signalization (per intersection)	ea.	1	\$200,000.00	\$200,000.00
48	Modifications to Ex. Traffic Signalization (per intersection)	ea.	0	\$120,000.00	\$0.00
49	Street Lighting (per pole)	ea.	42	\$5,000.00	\$208,000.00
Subtotal Electrical					\$408,000.00
E PROPERTY					
50	Existing Residential Lands	acre	0.00	\$750,000.00	\$0.00
51	Vacant Lands	acre	0.00	\$600,000.00	\$0.00
52	Flood Plain Lands	acre	0.00	\$10,000.00	\$0.00
53	Agricultural Lands	acre	0.00	\$125,000.00	\$0.00
Subtotal Property					\$0.00
F MISCELLANEOUS/SPECIAL MITIGATION					
56	Asphalt Path	m ²		\$53.00	\$0.00
57	Concrete Sidewalk	m ²	7069	\$60.00	\$424,140.00
	Mitigation and Compensation for Watercourse Crossings	L.S.	2	\$25,000.00	\$50,000.00
	1.2m Long Banners for Light Standards	ea.	84	\$130.00	\$10,920.00
	Proposed Gateway Landscape Features	ea.	4	\$20,000.00	\$80,000.00
Subtotal Miscellaneous/Special Requirements					\$565,060.00
G CENTER ROAD RECONSTRUCTION					
1	Earth Borrow	m ³	1138	\$15.00	\$17,065.05
2	Granular A (150 mm depth)	tonnes	2289	\$6.50	\$14,876.10
3	Granular B (450 mm depth)	tonnes	6488	\$5.50	\$35,684.00
4	Surface Course Asphalt (40 mm depth)	tonnes	504	\$15.00	\$7,564.20
5	Base Course Asphalt (120 mm depth)	tonnes	1288	\$8.00	\$10,302.96
6	Concrete Curb and Gutter (All types)	m	0	\$22.00	\$0.00
7	150 mm Subdrain	m	0	\$19.00	\$0.00
Subtotal Center Road					\$85,492.31
H UTILITIES & SERVICES					
1	Bell	L.S.	1	N/A	N/A
2	Hydro	L.S.	1	N/A	N/A
3	Gas	L.S.	1	N/A	N/A
4	Cable	L.S.	1	N/A	N/A
5	Oil Pipelines	L.S.	1	N/A	N/A
6	Hydro One	L.S.	1	N/A	N/A
54	Utility Pole (minor)	ea.	0	\$2,000.00	\$0.00
55	Utility Pole (major)	ea.	0	\$5,000.00	\$0.00
Subtotal Utilities (5% allowance)					\$314,272.98
I CONTINGENCY					
Subtotal All Items (excluding Property)					\$6,685,224.93
Contingency 10%					\$668,522.49
J ENGINEERING					
Subtotal All Items (excluding Property)					\$6,685,224.93
Contingency 10%					\$668,522.49
K TOTAL ESTIMATED COST (excluding GST)					\$8,022,269.92

ROAD NAME:	New East West Road		Imp. Type:	2R-NC2F & 2R-RC2F
From:	East of Centre Street		To:	Roundabout#2 (incl roundabout,cul-de-sac)
Road Length (m):	1215		ROW Width (m):	36
Number of Lanes:	2		Lane Width (m):	3.65
Flush Median Width (m):	2		Raised Median Width (m):	0

CROSS-SECTION FOR LEFT SIDE:		CROSS-SECTION FOR RIGHT SIDE:	
Cross-Section (Rural/Urban):	RURAL	Cross-Section (Rural/Urban):	RURAL
Paved Road Width (m):	4.65	Paved Road Width (m):	4.65
Paved Shoulder Width (m):	1	Paved Shoulder Width (m):	1
Granular Shoulder Width (m):	2.5	Granular Shoulder Width (m):	2.5
Sidewalk Width (m):	0	Sidewalk Width (m):	0
Bike Path Width (m):	0	Bike Path Width (m):	4
Street Lighting (Y/N):	N	Street Lighting (Y/N):	N

No.	Item	Unit	Estimated Quantity	Unit Price	Total
A ROADWORKS & DRAINAGE					
1	Clearing and Grubbing	ha.	9	\$10,000.00	\$90,882.00
2	Remove Ex. Asphalt (Full Depth)	m ²	0	\$6.50	\$0.00
3	Remove Ex. Asphalt (Partial Depth)	m ²	0	\$5.50	\$0.00
11	Concrete Splash Pad (0.3 m width, 150 mm depth)	m ²	0	\$50.00	\$0.00
15	Single Steel Beam Guide Rail	m	500	\$100.00	\$50,000.00
16	End Treatment for Steel Beam Guide Rail	ea.	2	\$5,000.00	\$10,000.00
21	150 mm Subdrain	m	913	\$26.00	\$23,738.00
35	Entrance Modifications/Regrading	L.S.	0	\$15,000.00	\$0.00
4	Earth Excavation	m ³	0	\$15.00	\$0.00
5	Earth Borrow	m ³	12491	\$8.00	\$99,928.16
6	Granular A (150 mm depth)	tonnes	10281	\$22.00	\$226,176.30
7	Granular B (450 mm depth)	tonnes	23132	\$19.00	\$439,500.36
9	Surface Course Asphalt (40 mm depth)	tonnes	1736	\$90.00	\$156,231.23
10	Base Course Asphalt (120 mm depth)	tonnes	4612	\$81.00	\$373,611.49
12	Concrete Curb and Gutter (All types)	m	913	\$55.00	\$50,215.00
13	Sod c/w 100 mm Topsoil	m ²	0	\$6.50	\$0.00
14	Seeding c/w 100 mm Topsoil	m ²	9900	\$5.00	\$49,500.00
17	300 mm Storm Sewer Laterals	m	0	\$250.00	\$0.00
18	375 - 600 mm Storm Sewer	m	0	\$375.00	\$0.00
22	Single Catchbasins	ea.	0	\$2,000.00	\$0.00
24	Storm Maintenance Holes/MHCBs	ea.	0	\$4,700.00	\$0.00
36	Minor Roadworks & Drainage Items			15.00%	\$221,835.08
Subtotal Roadworks & Drainage					\$1,791,617.61
B STRUCTURES					
43	Pedestrian Crossing	m ²	160	\$3,200.00	\$512,000.00
44	Center Road Woodlot Culverts (600mm dia)	m	161	\$300.00	\$48,240.00
Subtotal Structures					\$560,240.00
C LANDSCAPING/MITIGATION					
45	Deciduous Trees (12 m spacing)	ea.	360	\$500.00	\$180,000.00
46	Mitigation and Compensation for PSA Tree Removal	M2	20000	\$15.00	\$300,000.00
Subtotal Landscaping/Mitigation					\$480,000.00
D ELECTRICAL					
47	Traffic Signalization (per intersection)	ea.	0	\$200,000.00	\$0.00
48	Modifications to Ex. Traffic Signalization (per intersection)	ea.	0	\$120,000.00	\$0.00
49	Street Lighting (per pole)	ea.	0	\$5,000.00	\$0.00
Subtotal Electrical					\$0.00
E PROPERTY					
50	Existing Residential Lands	acre	0.00	\$750,000.00	\$0.00
51	Vacant Lands	acre	0.00	\$600,000.00	\$0.00
52	Flood Plain Lands	acre	0.00	\$10,000.00	\$0.00
53	Agricultural Lands	acre	9.20	\$125,000.00	\$1,150,000.00
Subtotal Property					\$1,150,000.00
F MISCELLANEOUS/SPECIAL REQUIREMENTS					
56	Asphalt Path	m ²		\$53.00	\$0.00
56a	Asphalt Trail	m ²	1699	\$53.00	\$90,047.00
57	Concrete Sidewalk	m ²	2077	\$60.00	\$124,620.00
	1.2m Long Banners for Light Standards (in Roundabout)	ea.	0	\$130.00	\$0.00
	4m Tall Pedestrian Scale Solar Powered Light Stds	ea.	28	\$5,000.00	\$140,000.00
	Naturalized/Restored Landscape Edge Along Woodlot Disturbance	m ²	2600	\$90.00	\$234,000.00
	Neighbourhood Pocket Park	L.S.	1	\$250,000.00	\$250,000.00
Subtotal Miscellaneous/Special Requirements					\$838,667.00
G UTILITIES & SERVICES					
1	Bell	L.S.	1	N/A	N/A
2	Hydro	L.S.	1	N/A	N/A
3	Gas	L.S.	1	N/A	N/A
4	Cable	L.S.	1	N/A	N/A
5	Oil Pipelines	L.S.	1	N/A	N/A
6	Hydro One	L.S.	1	N/A	N/A
54	Utility Pole (minor)	ea.	0	\$2,000.00	\$0.00
55	Utility Pole (major)	ea.	0	\$5,000.00	\$0.00
Subtotal Utilities (5% allowance)					\$183,526.23
H CONTINGENCY					
Subtotal All Items (excluding Property)					\$3,854,050.84
Contingency 10%					\$385,405.08
I ENGINEERING					
Subtotal All Items (excluding Property)					\$3,854,050.84
Contingency 10%					\$385,405.08
J TOTAL ESTIMATED COST (excluding GST)					\$5,774,861.01

ROAD NAME:		New East West Road-Parkside Section		Imp. Type: 4U-NC & 4U-RC			
From:		East of Roundabout #2		To:		West of Roundabout #3	
Road Length (m):		1200		ROW Width (m):		26	
Number of Lanes:		4		Lane Width (m):		3.3	
Flush Median Width (m):		0		Raised Median Width (m):		0	
ASSUMED FULL DEPTH RECONSTRUCTION OF PARKSIDE DRIVE SINCE GEOTECH INVESTIGATION NOT COMPLETE AT THIS TIME							
CROSS-SECTION FOR LEFT SIDE:				CROSS-SECTION FOR RIGHT SIDE:			
Cross-Section (Rural/Urban):		URBAN		Cross-Section (Rural/Urban):		URBAN	
Paved Road Width (m):		7.8		Paved Road Width (m):		7.8	
Paved Shoulder Width (m):		0		Paved Shoulder Width (m):		0	
Paved Shoulder Width (m):		1.2		Paved Shoulder Width (m):		1.2	
Sidewalk Width (m):		1.5		Sidewalk Width (m):		2	
Bike Path Width (m):		0		Bike Path Width (m):		0	
Street Lighting (Y/N):		Y		Street Lighting (Y/N):		Y	
No.	Item	Unit	Estimated Quantity	Unit Price	Total		
A ROADWORKS & DRAINAGE							
1	Clearing and Grubbing	ha.		\$10,000.00	\$0.00		
2	Remove Ex. Asphalt (Full Depth)	m ²	8550	\$6.50	\$55,575.00		
3	Remove Ex. Asphalt (Partial Depth)	m ²	0	\$5.50	\$0.00		
11	Concrete Splash Pad (0.3 m width, 150 mm depth)	m ²	684	\$50.00	\$34,200.00		
15	Single Steel Beam Guide Rail	m	0	\$100.00	\$0.00		
16	End Treatment for Steel Beam Guide Rail	ea.	0	\$5,000.00	\$0.00		
21	150 mm Subdrain	m	2453	\$26.00	\$63,778.00		
35	Entrance Modifications/Regrading	L.S.	20	\$15,000.00	\$300,000.00		
4	Earth Excavation	m ³	27950.5	\$15.00	\$419,257.52		
6	Granular A (150 mm depth)	tonnes	7554.454	\$22.00	\$166,197.98		
7	Granular B (450 mm depth)	tonnes	21160.41	\$19.00	\$402,047.87		
9	Surface Course Asphalt (40 mm depth)	tonnes	2026.403	\$90.00	\$182,376.23		
10	Base Course Asphalt (120 mm depth)	tonnes	6079.21	\$81.00	\$492,416.01		
12	Concrete Curb and Gutter (All types)	m	2453	\$55.00	\$134,915.00		
13	Sod c/w 100 mm Topsoil	m ²	3420	\$6.50	\$22,230.00		
14	Seeding c/w 100 mm Topsoil	m ²		\$5.00	\$0.00		
17	300 mm Storm Sewer Laterals	m	346	\$250.00	\$86,500.00		
18	375 - 600 mm Storm Sewer	m	1140	\$375.00	\$427,500.00		
22	Single Catchbasins	ea.	48	\$2,000.00	\$96,000.00		
24	Storm Maintenance Holes/MHCBs	ea.	12	\$4,700.00	\$56,400.00		
36	Minor Roadworks & Drainage Items			15.00%	\$440,909.04		
Subtotal Roadworks & Drainage					\$3,380,302.63		
B STRUCTURES							
42	Bridge over Watercourse Crossing	m ²	300	\$3,200.00	\$960,000.00		
44A	Retaining Wall (RSS)	m ²	181	\$700.00	\$126,700.00		
Subtotal Structures					\$1,086,700.00		
C LANDSCAPING/MITIGATION							
45	Deciduous Trees (12 m spacing)	ea.	195	\$500.00	\$97,500.00		
46	Mitigation and Compensation for Watercourse Crossings	L.S.	1	\$50,000.00	\$50,000.00		
Subtotal Landscaping/Mitigation					\$147,500.00		
D ELECTRICAL							
47	Traffic Signalization (per intersection)	ea.		\$200,000.00	\$0.00		
48	Modifications to Ex. Traffic Signalization (per intersection)	ea.		\$120,000.00	\$0.00		
49	Street Lighting (per pole)	ea.	45.6	\$5,000.00	\$228,000.00		
Subtotal Electrical					\$228,000.00		
E PROPERTY							
50	Existing Residential Lands	acre	1.71	\$750,000.00	\$1,278,770.35		
51	Vacant Lands	acre	0.00	\$600,000.00	\$0.00		
52	Flood Plain Lands	acre	0.77	\$10,000.00	\$7,684.98		
53	Agricultural Lands	acre	0.00	\$125,000.00	\$0.00		
Subtotal Property					\$1,286,455.33		
F MISCELLANEOUS/SPECIAL REQUIREMENTS							
56	Asphalt Path	m ²	0	\$53.00	\$0.00		
57	Concrete Sidewalk	m ²	3848	\$60.00	\$230,880.00		
	1.8m High Wood Acoustic Fence	l.m.	160	\$400.00	\$64,000.00		
	Landscape Buffer Along the Fence	m ²	160	\$90.00	\$14,400.00		
	1.2m Long Banners for Light Standards	ea.	68	\$130.00	\$8,840.00		
	Flower Baskets for Light Standards	ea.	24	\$250.00	\$6,000.00		
Subtotal Miscellaneous/Special Requirements					\$324,120.00		
G UTILITIES & SERVICES							
1	Bell	L.S.	1	N/A	N/A		
2	Hydro	L.S.	1	N/A	N/A		
3	Gas	L.S.	1	N/A	N/A		
4	Cable	L.S.	1	N/A	N/A		
5	Oil Pipelines	L.S.	1	N/A	N/A		
6	Hydro One	L.S.	1	N/A	N/A		
54	Utility Pole (minor)	ea.	0	\$2,000.00	\$0.00		
55	Utility Pole (major)	ea.	0	\$5,000.00	\$0.00		
Subtotal Utilities (5% allowance)					\$258,331.13		
H CONTINGENCY							
Subtotal All Items (excluding Property)					\$5,424,953.77		
Contingency 10%					\$542,495.38		
I ENGINEERING							
Subtotal All Items (excluding Property)					\$5,424,953.77		
Contingency 10%					\$542,495.38		
J TOTAL ESTIMATED COST (excluding GST)					\$7,796,399.85		

ROAD NAME:		New East West Road		Imp. Type: 4U-NC2F & 4U-RC2F			
From:		Roundabout #3 (Rndabt included)		To:		Dundas Street	
Road Length (m):		910		ROW Width (m):		30	
Number of Lanes:		3		Lane Width (m):		3.65	
Flush Median Width (m):		5.0		Raised Median Width (m):		0	
ASSUMED EAST HALF OF ROAD IS RURAL							
CROSS-SECTION FOR LEFT SIDE:				CROSS-SECTION FOR RIGHT SIDE:			
Cross-Section (Rural/Urban):		URBAN		Cross-Section (Rural/Urban):		RURAL	
Paved Road Width (m):		7.975		Paved Road Width (m):		3.65	
Paved Shoulder Width (m):		0		Paved Shoulder Width (m):		1	
Granular Shoulder Width (m):		2.5		Granular Shoulder Width (m):		2.5	
Sidewalk Width (m):		0		Sidewalk Width (m):		0	
Bike Path Width (m):		0		Bike Path Width (m):		4	
Street Lighting (Y/N):		Y		Street Lighting (Y/N):		N	
No.	Item	Unit	Estimated Quantity	Unit Price	Total		
A ROADWORKS & DRAINAGE							
1	Clearing and Grubbing	ha.	6	\$10,000.00	\$59,810.40		
2	Remove Ex. Asphalt (Full Depth)	m ²	0	\$6.50	\$0.00		
3	Remove Ex. Asphalt (Partial Depth)	m ²	0	\$5.50	\$0.00		
11	Concrete Splash Pad (0.3 m width, 150 mm depth)	m ²	176	\$50.00	\$8,800.00		
15	Single Steel Beam Guide Rail	m	0	\$100.00	\$0.00		
16	End Treatment for Steel Beam Guide Rail	ea.	0	\$5,000.00	\$0.00		
21	150 mm Subdrain	m	1303	\$26.00	\$33,878.00		
35	Entrance Modifications/Regrading	L.S.	1	\$15,000.00	\$15,000.00		
4	Earth Excavation	m ³	14849	\$15.00	\$222,742.19		
6	Granular A (150 mm depth)	tonnes	4832	\$22.00	\$106,298.60		
7	Granular B (450 mm depth)	tonnes	11882	\$19.00	\$225,757.54		
9	Surface Course Asphalt (40 mm depth)	tonnes	1313	\$90.00	\$118,159.43		
10	Base Course Asphalt (120 mm depth)	tonnes	2178.28	\$81.00	\$176,440.68		
12	Concrete Curb and Gutter (All types)	m	910	\$55.00	\$50,050.00		
13	Sod c/w 100 mm Topsoil	m ²	1755	\$6.50	\$11,407.50		
14	Seeding c/w 100 mm Topsoil	m ²	0	\$5.00	\$0.00		
17	300 mm Storm Sewer Laterals	m	161	\$250.00	\$40,250.00		
18	375 - 600 mm Storm Sewer	m	1170	\$375.00	\$438,750.00		
22	Single Catchbasins	ea.	19	\$2,000.00	\$38,000.00		
24	Storm Maintenance Holes/MHCBs	ea.	10	\$4,700.00	\$47,000.00		
36	Minor Roadworks & Drainage Items			15.00%	\$229,880.09		
Subtotal Roadworks & Drainage					\$1,822,224.42		
B STRUCTURES							
42	Bridge over Watercourse Crossing	m ²	0	\$3,200.00	\$0.00		
43	Culvert over Watercourse Crossing (1000mm dia)	m	0	\$400.00	\$0.00		
Subtotal Structures					\$0.00		
C LANDSCAPING/MITIGATION							
45	Deciduous Trees (12 m spacing)	ea.	270	\$500.00	\$135,000.00		
46	Mitigation and Compensation for Watercourse Crossings	m	0	\$1,000.00	\$0.00		
Subtotal Landscaping/Mitigation					\$135,000.00		
D ELECTRICAL							
47	Traffic Signalization (per intersection)	ea.	1	\$200,000.00	\$200,000.00		
48	Modifications to Ex. Traffic Signalization (per intersection)	ea.	0	\$120,000.00	\$0.00		
49	Street Lighting (per pole)	ea.	18.2	\$5,000.00	\$91,000.00		
Subtotal Electrical					\$291,000.00		
E PROPERTY							
50	Existing Residential Lands	acre	0.0	\$750,000.00	\$0.00		
51	Vacant Lands	acre	0.0	\$600,000.00	\$0.00		
52	Flood Plain Lands	acre	0.0	\$10,000.00	\$0.00		
53	Agricultural Lands	acre	0.0	\$125,000.00	\$0.00		
Subtotal Property					\$0.00		
F MISCILLANEOUS/SPECIAL REQUIREMENTS							
56	Asphalt Path	m ²	3365	\$53.00	\$178,345.00		
57	Concrete Sidewalk	m ²	1303	\$60.00	\$78,180.00		
	Proposed Gateway Landscape Features	ea.	2	\$20,000.00	\$40,000.00		
	Provision of Regional storm storage area	L.S.	1	\$100,000.00	\$100,000.00		
	1.2m Long Banners for Light Standards	ea.	36	\$130.00	\$4,680.00		
Subtotal Miscellaneous/Special Requirements					\$401,205.00		
G UTILITIES & SERVICES							
1	Bell	L.S.	1	N/A	N/A		
2	Hydro	L.S.	1	N/A	N/A		
3	Gas	L.S.	1	N/A	N/A		
4	Cable	L.S.	1	N/A	N/A		
5	Oil Pipelines	L.S.	1	N/A	N/A		
6	Hydro One	L.S.	1	N/A	N/A		
54	Utility Pole (minor)	ea.	0	\$2,000.00	\$0.00		
55	Utility Pole (major)	ea.	0	\$5,000.00	\$0.00		
Subtotal Utilities (5% allowance)					\$132,471.47		
H CONTINGENCY							
Subtotal All Items (excluding Property)					\$2,781,900.89		
Contingency 10%					\$278,190.09		
I ENGINEERING							
Subtotal All Items (excluding Property)					\$2,781,900.89		
Contingency 10%					\$278,190.09		
J TOTAL ESTIMATED COST (excluding GST)					\$3,338,281.07		

ROAD NAME:		Widened Dundas		Road Class./Imp. Type: 6U-RW5F	
From:	West of New East West Road	To:	Kerns Road (City Limits)		
Road Length (m):	1060	ROW Width (m):	45		
Number of Lanes:	6	Lane Width (m):	3.65		
Flush Median Width (m):	5	Raised Median Width (m):	0		
ASSUMED EXISTING PAVEMENT ALONG DUNDAS STREET IS IN GOOD CONDITION.					
CROSS-SECTION FOR LEFT SIDE:			CROSS-SECTION FOR RIGHT SIDE:		
Cross-Section (Rural/Urban):	RURAL	Cross-Section (Rural/Urban):	RURAL		
Paved Road Width (m):	14.95	Paved Road Width (m):	14.95		
Paved Shoulder Width (m):	1	Paved Shoulder Width (m):	1		
Granular Shoulder Width (m):	0	Granular Shoulder Width (m):	0		
Sidewalk Width (m):	2	Sidewalk Width (m):	2		
Bike Path Width (m):	0	Bike Path Width (m):	0		
Street Lighting (Y/N):	Y	Street Lighting (Y/N):	Y		
No.	Item	Unit	Estimated Quantity	Unit Price	Total
A ROADWORKS & DRAINAGE					
1	Clearing and Grubbing	ha.	0	\$10,000.00	\$0.00
2	Remove Ex. Asphalt (Full Depth)	m ²	0	\$6.50	\$0.00
3	Remove Ex. Asphalt (Partial Depth)	m ²	18502	\$5.50	\$101,761.00
11	Concrete Splash Pad (0.3 m width, 150 mm depth)	m ²	696	\$50.00	\$34,800.00
15	Single Steel Beam Guide Rail	m	0	\$100.00	\$0.00
16	End Treatment for Steel Beam Guide Rail	ea.	0	\$5,000.00	\$0.00
21	150 mm Subdrain	m	2347	\$26.00	\$61,022.00
35	Entrance Modifications/Regrading	L.S.	1	\$15,000.00	\$15,000.00
4	Earth Excavation	m ³	10852	\$15.00	\$162,779.10
5	Earth Borrow	m ³	9071	\$15.00	
6	Granular A (150 mm depth)	tonnes	4675	\$22.00	\$102,857.04
7	Granular B (450 mm depth)	tonnes	12761	\$19.00	\$242,455.35
9	Surface Course Asphalt (40 mm depth)	tonnes	1535	\$90.00	\$138,153.60
10	Base Course Asphalt (120 mm depth)	tonnes	3684	\$81.00	\$298,412.10
12	Concrete Curb and Gutter (All types)	m	2347	\$55.00	\$129,085.00
13	Sod c/w 100 mm Topsoil	m ²	6960	\$6.50	\$45,240.00
14	Seeding c/w 100 mm Topsoil	m ²	0	\$5.00	\$0.00
17	300 mm Storm Sewer Laterals	m	672	\$250.00	\$168,000.00
18	375 - 600 mm Storm Sewer	m	1160	\$375.00	\$435,000.00
22	Single Catchbasins	ea.	48	\$2,000.00	\$96,000.00
24	Storm Maintenance Holes/MHCBs	ea.	12	\$4,700.00	\$56,400.00
36	Minor Roadworks & Drainage Items			15.00%	\$313,044.78
Subtotal Roadworks & Drainage					\$2,400,009.97
B STRUCTURES					
42	Bridge over Watercourse Crossing	m ²	165	\$3,200.00	\$528,000.00
Subtotal Structures					\$528,000.00
C LANDSCAPING/MITIGATION					
45	Deciduous Trees (12 m spacing)	ea.	300	\$500.00	\$150,000.00
46	Mitigation and Compensation for Watercourse Crossings	m	0	\$1,000.00	\$0.00
Subtotal Landscaping/Mitigation					\$150,000.00
D ELECTRICAL					
47	Traffic Signalization (per intersection)	ea.	2	\$200,000.00	\$400,000.00
48	Modifications to Ex. Traffic Signalization (per intersection)	ea.	0	\$120,000.00	\$0.00
49	Street Lighting (per pole)	ea.	42.4	\$5,000.00	\$212,000.00
Subtotal Electrical					\$612,000.00
E PROPERTY					
50	Existing Residential Lands	acre	0.42	\$750,000.00	\$311,352.78
51	Vacant Lands	acre	0.00	\$600,000.00	\$0.00
52	Flood Plain Lands	acre	0.03	\$10,000.00	\$296.53
53	Agricultural Lands	acre	0.27	\$125,000.00	\$34,285.87
Subtotal Property					\$345,935.18
F MISCILLANEOUS/SPECIAL MITIGATION					
56	Asphalt Path	m ²	0	\$53.00	\$0.00
57	Concrete Sidewalk	m ²	4638	\$60.00	\$278,280.00
	Proposed Gateway Landscape Features	ea.	2	\$20,000.00	\$40,000.00
Subtotal Miscellaneous/Special Requirements					\$318,280.00
G UTILITIES & SERVICES					
1	Bell	L.S.	1	N/A	N/A
2	Hydro	L.S.	1	N/A	N/A
3	Gas	L.S.	1	N/A	N/A
4	Cable	L.S.	1	N/A	N/A
5	Oil Pipelines	L.S.	1	N/A	N/A
6	Hydro One	L.S.	1	N/A	N/A
54	Utility Pole (minor)	ea.	0	\$2,000.00	\$0.00
55	Utility Pole (major)	ea.	0	\$5,000.00	\$0.00
Subtotal Utilities (5% allowance)					\$200,414.50
H CONTINGENCY					
Subtotal All Items (excluding Property)					\$4,208,704.47
Contingency 10%					\$420,870.45
I ENGINEERING					
Subtotal All Items (excluding Property)					\$4,208,704.47
Contingency 10%					\$420,870.45
J TOTAL ESTIMATED COST (excluding GST)					\$5,396,380.54

ROAD NAME:	Widened Dundas	Road Class./Imp. Type:	6U-RW5F
From:	Kerns Road (City Limits)	To:	East of Brant Street
Road Length (m):	2000	ROW Width (m):	43.5
Number of Lanes:	6	Lane Width (m):	3.65
Flush Median Width (m):	5	Raised Median Width (m):	0

CROSS-SECTION FOR LEFT SIDE:		CROSS-SECTION FOR RIGHT SIDE:	
Cross-Section (Rural/Urban):	URBAN	Cross-Section (Rural/Urban):	URBAN
Paved Road Width (m):	14.126	Paved Road Width (m):	14.126
Paved Shoulder Width (m):	0	Paved Shoulder Width (m):	0
Granular Shoulder Width (m):	0	Granular Shoulder Width (m):	0
Sidewalk Width (m):	0	Sidewalk Width (m):	1.5
Bike Path Width (m):	0	Bike Path Width (m):	0
Street Lighting (Y/N):	Y	Street Lighting (Y/N):	Y

No.	Item	Unit	Estimated Quantity	Unit Price	Total
A ROADWORKS & DRAINAGE					
1	Clearing and Grubbing	ha.	0	\$10,000.00	\$0.00
2	Remove Ex. Asphalt (Full Depth)	m ²	0	\$6.50	\$0.00
3	Remove Ex. Asphalt (Partial Depth)	m ²	37483	\$5.50	\$206,153.75
4A	Rock Cut	m ³	6150	\$75.00	\$461,250.00
11	Concrete Splash Pad (0.3 m width, 150 mm depth)	m ²	1224	\$50.00	\$61,200.00
15	Single Steel Beam Guide Rail	m	0	\$100.00	\$0.00
16	End Treatment for Steel Beam Guide Rail	ea.	0	\$5,000.00	\$0.00
21	150 mm Subdrain	m	4052	\$26.00	\$105,352.00
35	Entrance Modifications/Regrading	L.S.	1	\$15,000.00	\$15,000.00
4	Earth Excavation	m ³	31034	\$15.00	\$465,508.08
6	Granular A (150 mm depth)	tonnes	8185	\$22.00	\$180,061.15
7	Granular B (450 mm depth)	tonnes	22579	\$19.00	\$429,004.57
9	Surface Course Asphalt (40 mm depth)	tonnes	2673	\$90.00	\$240,543.68
10	Base Course Asphalt (120 mm depth)	tonnes	6401	\$81.00	\$518,481.81
12	Concrete Curb and Gutter (All types)	m	4052	\$55.00	\$222,860.00
13	Sod c/w 100 mm Topsoil	m ²	12240	\$6.50	\$79,560.00
14	Seeding c/w 100 mm Topsoil	m ²	0	\$5.00	\$0.00
17	300 mm Storm Sewer Laterals	m	1132	\$250.00	\$283,000.00
18	375 - 600 mm Storm Sewer	m	2000	\$375.00	\$750,000.00
22	Single Catchbasins	ea.	80	\$2,000.00	\$160,000.00
24	Storm Maintenance Holes/MHCBs	ea.	20	\$4,700.00	\$94,000.00
36	Minor Roadworks & Drainage Items			15.00%	\$640,796.26
Subtotal Roadworks & Drainage					\$4,912,771.29
B STRUCTURES					
44A	Retaining Walls (RSS)	m ²	1727	\$700.00	\$1,208,900.00
Subtotal Structures					\$1,208,900.00
C LANDSCAPING/MITIGATION					
45	Deciduous Trees (12 m spacing)	ea.	370	\$500.00	\$185,000.00
46	Mitigation and Compensation for Vegetation Removal	m ²	10000	\$15.00	\$150,000.00
Subtotal Landscaping/Mitigation					\$335,000.00
D ELECTRICAL					
47	Traffic Signalization (Kerns Road re: Bruce Trail relocation)	ea.	1	\$200,000.00	\$200,000.00
48	Modifications to Ex. Traffic Signalization (per intersection)	ea.	1	\$120,000.00	\$120,000.00
49	Street Lighting (per pole)	ea.	80	\$5,000.00	\$400,000.00
Subtotal Electrical					\$720,000.00
E PROPERTY					
50	Existing Residential Lands	acre	0.64	\$750,000.00	\$481,855.49
51	Vacant Lands	acre	0.00	\$600,000.00	\$0.00
52	Flood Plain Lands	acre	0.00	\$10,000.00	\$0.00
53	Agricultural Lands	acre	0.30	\$125,000.00	\$37,065.81
Subtotal Property					\$518,921.30
F MISCELLANEOUS/SIDEWALKS/PATHWAYS					
56	Asphalt Path	m ²	0	\$53.00	\$0.00
57	Concrete Sidewalk for Bruce Trail Relocation	m ²	1125	\$60.00	\$67,500.00
58	Concrete Sidewalk Dundas Street	m ²	3832	\$60.00	\$229,920.00
Subtotal Miscellaneous/Special Requirements					\$297,420.00
G BRANT STREET RECONSTRUCTION					
1	Earth Excavation	m ³	6547	\$15.00	\$98,210.03
2	Granular A (150 mm depth)	tonnes	2358	\$22.00	\$51,882.86
3	Granular B (450 mm depth)	tonnes	6505	\$19.00	\$123,591.35
4	Surface Course Asphalt (40 mm depth)	tonnes	1915	\$90.00	\$172,337.40
5	Base Course Asphalt (120 mm depth)	tonnes	638	\$81.00	\$51,701.29
6	Concrete Curb and Gutter (All types)	m	1021	\$55.00	\$56,155.00
7	Concrete Sidewalk	m ²	270	\$60.00	\$16,200.00
8	150 mm Subdrain	m	1021	\$26.00	\$26,546.00
Subtotal Brant Street					\$596,623.93
H UTILITIES & SERVICES					
1	Bell	L.S.	1	N/A	N/A
2	Hydro	L.S.	1	N/A	N/A
3	Gas	L.S.	1	N/A	N/A
4	Cable	L.S.	1	N/A	N/A
5	Oil Pipelines	L.S.	1	N/A	N/A
6	Hydro One	L.S.	1	N/A	N/A
54	Utility Pole (minor)	ea.	0	\$2,000.00	\$0.00
55	Utility Pole (major)	ea.	0	\$5,000.00	\$0.00
Subtotal Utilities (5% allowance)					\$373,704.56
I CONTINGENCY					
Subtotal All Items (excluding Property)					\$8,444,419.78
Contingency 10%					\$844,441.98
J ENGINEERING					
Subtotal All Items (excluding Property)					\$8,444,419.78
Contingency 10%					\$844,441.98
K TOTAL ESTIMATED COST (excluding GST)					\$10,652,225.04