

**Midtown Oakville Transportation and Stormwater  
Municipal Class EA Final Report June 2014**

**APPENDIX I  
COST ESTIMATES**

# Midtown Oakville EA

## Preliminary Quantities and Cost Estimate

### CONSTRUCTION DETAILS

**Project Location:** North Service Road  
**From:** Royal Windsor Drive  
**To:** CH 5170 NSR  
**Project Description:** Midtown Oakville EA

NO	ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Roadwork's &amp; Drainage</b>					
1	Clearing and Grubbing	3.1	ha	\$10,000.00	\$31,000
2	Earth Excavation	14,560.0	m3	\$22.44	\$326,726
3	Earth Borrow	0.0	m3	\$10.00	\$0
4	Granular A (150mm)	6,070.0	T	\$21.42	\$130,019
5	Granular B (450mm)	16,680.0	T	\$20.40	\$340,272
6	Surface Course Asphalt (50mm)	2,140.0	T	\$100.00	\$214,000
7	Base Course Asphalt (100mm)	4,160.0	T	\$95.00	\$395,200
8	Grind and overlay:	7,705.5	m2	\$15.82	\$121,892
9	Curb & Gutter	3,310.0	m	\$85.44	\$282,801
10	Concrete Kill Strips	0.0	m	\$48.91	\$0
11	Subdrains	3,310.0	m	\$19.29	\$63,850
12	Shoulders	0.0	m	\$190.21	\$0
	Median				
13	Curbs	380.0	m	\$85.44	\$32,467
14	Concrete Kill Strips	380.0	m	\$48.91	\$18,586
15	Sodding	190.0	m2	\$10.00	\$1,900
	Pavement	0.0	m2	\$72.44	\$0
	Boulevard Items				
16	Sidewalks	2,820.0	m2	\$60.71	\$171,202
17	Pedestrian Railings	0.0	m	\$165.67	\$0
18	Cyclepaths	0.0	m2	\$23.41	\$0
19	Driveway (Res.)	0.0	m2	\$50.12	\$0
20	Driveway (Comm.)	484.5	m2	\$77.68	\$37,634
21	Chain link fencing (1.2m)	0.0	m	\$96.73	\$0
22	Screening Fence (1.8)	0.0	m	\$309.15	\$0
23	Noise Attenuation (1.8m)	0.0	m	\$683.19	\$0
	Pavement Markings				
24	Line Striping	6,150.0	m	\$1.86	\$11,439
	Drainage				
25	Ditching	0.0	m	\$45.21	\$0
26	Minor Culverts (New)	20.0	m2	\$1,798.30	\$35,966
27	Minor Culverts (Widen)	40.0	m2	\$2,157.96	\$86,318
28	Major Culverts (New)	0.0	m	\$8,480.80	\$0
29	Major Culverts (Widen)	0.0	m	\$8,480.80	\$0
30	Typ. Storm Sewer	1,655.0	m	\$508.12	\$840,945
31	Oil/Grit Separators	1.0	ea.	\$44,291.00	\$44,291
32	Sewer extension	0.0	m	\$1,146.52	\$0
33	Outfall	1.0	each	\$22,677.86	\$22,678
	Protective Barriers				
34	Retaining Walls	0.0	sq. m	\$663.81	\$0
35	Reinforced Earth Wall	0.0	sq. m	\$500.00	\$0
36	Steel Beam Guard Rail	0.0	m	\$72.36	\$0
37	Eccentric Loaders	0.0	ea	\$3,215.00	\$0
38	Proprietary Barriers	0.0	ea.	\$52,664.52	\$0
39	Temp. Jersey Barriers	0.0	m	\$66.43	\$0
<b>B Landscaping</b>					
40	Boulevard Trees	1,655.0	m	\$117.50	\$194,463
41	Sodding	10,030.5	m2	\$10.00	\$100,305
42	Topsoil & Seed	0.0	m2	\$4.50	\$0
<b>C. Electrical</b>					
	<b>Streetlighting</b>				
43	In Boulevard	1,655.0	m	\$263.99	\$436,898
44	In Median	0.0	m	\$176.30	\$0
	<b>Traffic Signals</b>	0.0			
45	Temporary Signals	0.0	each	\$60,598.70	\$0
46	Arterial Intersection	0.0	each	\$264,677.96	\$0
47	Collector Intersection	0.0	each	\$211,680.50	\$0
48	Local Intersection	0.0	each	\$178,737.40	\$0
49	Interconnect	0.0	m	\$69.44	\$0
<b>D. Structures</b>					
50	Grade Separation	0.0	each	\$16,433,844.37	\$0
51	Bridge (New)	0.0	m2 deck area	\$2,987.40	\$0
52	Bridge (Widen)	0.0	m2 deck area	4182.366438	\$0
<b>E. Miscellaneous</b>					
53	- xxxxxx	0	Ea.	0	\$0
54	- xxxxxx	0	Ea.	0	\$0
<b>Sub Total All Items</b>					<b>\$3,940,852</b>
	25% Contingency				\$985,213
<b>Sub Total</b>					<b>\$4,926,065</b>
	15% Engineering				\$738,910
<b>Grand Total</b>					<b>\$5,664,974</b>
<b>F Property</b>					
55	Residential	0.0	m2	\$117.50	\$0
56	Commercial	5,616.0	m2	\$225.00	\$1,263,600
	Subtotal Property				<b>\$1,263,600</b>
<b>TOTAL ESTIMATED COST</b>					<b>\$6,928,574</b>

# Midtown Oakville EA

## Preliminary Quantities and Cost Estimate

### CONSTRUCTION DETAILS

**Project Location:** Trafalgar Road Interchange  
**From:** QEW  
**To:** Midtown  
**Project Description:** Midtown Oakville EA

NO	ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Roadwork's &amp; Drainage</b>					
1	Clearing and Grubbing	2.6	ha	\$10,000.00	\$26,100
2	Earth Excavation	18,580.0	m3	\$22.44	\$416,935
3	Earth Borrow	60.0	m3	\$10.00	\$600
4	Granular A (150mm)	3,290.0	T	\$21.42	\$70,472
5	Granular B (450mm)	9,680.0	T	\$20.40	\$197,472
6	Surface Course Asphalt (50mm)	3,810.0	T	\$100.00	\$381,000
7	Base Course Asphalt (100mm)	2,750.0	T	\$95.00	\$261,250
8	Grind and overlay:	9,610.0	m2	\$15.82	\$152,019
9	Curb & Gutter	2,475.0	m	\$85.44	\$211,460
10	Concrete Kill Strips	0.0	m	\$48.91	\$0
11	Subdrains	3,601.0	m	\$19.29	\$69,463
12	Shoulders	320.0	m	\$190.21	\$60,867
	Median				
13	Curbs	0.0	m	\$85.44	\$0
14	Concrete Kill Strips	0.0	m	\$48.91	\$0
15	Sodding	0.0	m2	\$10.00	\$0
	Pavement	0.0	m2	\$72.44	\$0
	Boulevard Items				
16	Sidewalks	3,340.5	m2	\$60.71	\$202,802
17	Pedestrian Railings	0.0	m	\$165.67	\$0
18	Cyclepaths	0.0	m2	\$23.41	\$0
19	Driveway (Res.)	0.0	m2	\$50.12	\$0
20	Driveway (Comm.)	207.0	m2	\$77.68	\$16,079
21	Chain link fencing (1.2m)	0.0	m	\$96.73	\$0
22	Screening Fence (1.8)	0.0	m	\$309.15	\$0
23	Noise Attenuation (1.8m)	0.0	m	\$683.19	\$0
	Pavement Markings				
24	Line Striping	3,143.0	m	\$1.86	\$5,846
	Drainage				
25	Ditching	640.0	m	\$45.21	\$28,935
26	Minor Culverts (New)	0.0	m2	\$1,798.30	\$0
27	Minor Culverts (Widen)	0.0	m2	\$2,157.96	\$0
28	Major Culverts (New)	0.0	m	\$8,480.80	\$0
29	Major Culverts (Widen)	0.0	m	\$8,480.80	\$0
30	Typ. Storm Sewer	2,248.0	m	\$508.12	\$1,142,262
31	Oil/Grit Separators	1.0	ea.	\$44,291.00	\$44,291
32	Sewer extension	250.0	m	\$1,146.52	\$286,630
33	Outfall	1.0	each	\$22,677.86	\$22,678
	Protective Barriers				
34	Retaining Walls	362.0	sq. m	\$663.81	\$240,299
35	Reinforced Earth Wall	0.0	sq. m	\$500.00	\$0
36	Steel Beam Guard Rail	140.0	m	\$72.36	\$10,130
37	Eccentric Loaders	1.0	ea.	\$3,215.00	\$3,215
38	Proprietary Barriers	0.0	ea.	\$52,664.52	\$0
39	Temp. Jersey Barriers	1,036.0	m	\$66.43	\$68,821
<b>B Landscaping</b>					
40	Boulevard Trees	895.0	m	\$117.50	\$105,163
41	Sodding	5,240.5	m2	\$10.00	\$52,405
42	Topsoil & Seed	0.0	m2	\$4.50	\$0
<b>C. Electrical</b>					
	Streetlighting				
43	In Boulevard	895.0	m	\$263.99	\$236,268
44	In Median	1,353.0	m	\$176.30	\$238,534
	Traffic Signals				
45	Temporary Signals	0.0	each	\$60,598.70	\$0
46	Arterial Intersection	0.0	each	\$264,677.96	\$0
47	Collector Intersection	0.0	each	\$211,680.50	\$0
48	Local Intersection	0.0	each	\$178,737.40	\$0
49	Interconnect	1,353.0	m	\$69.44	\$93,948
<b>D. Structures</b>					
50	Grade Separation	0.0	each	\$16,433,844.37	\$0
51	Bridge (New)	1,122.8	m2 deck area	\$2,987.40	\$3,354,395
52	Bridge (Widen)	0.0	m2 deck area	4182.366438	\$0
<b>E. Miscellaneous</b>					
53	Gantry Sign Relocation	2	each	\$175,000.00	\$350,000
54	Gantry Sign	1	each	\$175,000.00	\$175,000
55	Watermain Relocation	1	each	\$1,250,000.00	\$1,250,000
<b>Sub Total All Items</b>					<b>\$9,775,338</b>
	25% Contingency				\$2,443,835
<b>Sub Total</b>					<b>\$12,219,173</b>
	15% Engineering				\$1,832,876
<b>Grand Total</b>					<b>\$14,052,049</b>
<b>F Property</b>					
56	Residential	6,260.0	m2	\$225.00	\$1,408,500
57	Commercial	0.0	m2	\$18.46	\$0
	Subtotal Property				<b>\$1,408,500</b>
<b>TOTAL ESTIMATED COST</b>					<b>\$15,460,549</b>

# Midtown Oakville EA

## Preliminary Quantities and Cost Estimate

### CONSTRUCTION DETAILS

**Project Location:** North-South Crossing  
**From:** Go Station  
**To:** Trafalgar Road  
**Project Description:** Midtown Oakville EA

NO	ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Roadwork's &amp; Drainage</b>					
1	Clearing and Grubbing	5.4	ha	\$10,000.00	\$53,600
2	Earth Excavation	27,690.0	m3	\$22.44	\$621,364
3	Earth Borrow	8,780.0	m3	\$10.00	\$87,800
4	Granular A (150mm)	9,660.0	T	\$21.42	\$206,917
5	Granular B (450mm)	26,970.0	T	\$20.40	\$550,188
6	Surface Course Asphalt (50mm)	3,410.0	T	\$100.00	\$341,000
7	Base Course Asphalt (100mm)	6,670.0	T	\$95.00	\$633,650
8	Grind and overlay:	3,230.0	m2	\$15.82	\$51,095
9	Curb & Gutter	4,430.0	m	\$85.44	\$378,492
10	Concrete Kill Strips	948.0	m	\$48.91	\$46,367
11	Subdrains	4,430.0	m	\$19.29	\$85,455
12	Shoulders	0.0	m	\$190.21	\$0
	Median				
13	Curbs	1,386.0	m	\$85.44	\$118,418
14	Concrete Kill Strips	1,386.0	m	\$48.91	\$67,789
15	Sodding	2,772.0	m2	\$10.00	\$27,720
	Pavement	0.0	m2	\$72.44	\$0
	Boulevard Items				
16	Sidewalks	8,911.5	m2	\$60.71	\$541,017
17	Pedestrian Railings	2.0	m	\$165.67	\$331
18	Cyclepaths	0.0	m2	\$23.41	\$0
19	Driveway (Res.)	108.0	m2	\$50.12	\$5,413
20	Driveway (Comm.)	139.5	m2	\$77.68	\$10,836
21	Chain link fencing (1.2m)	0.0	m	\$96.73	\$0
22	Screening Fence (1.8)	0.0	m	\$309.15	\$0
23	Noise Attenuation (1.8m)	0.0	m	\$683.19	\$0
	Pavement Markings				
24	Line Striping	7,844.0	m	\$1.86	\$14,590
	Drainage				
25	Ditching	0.0	m	\$45.21	\$0
26	Minor Culverts (New)	0.0	m2	\$1,798.30	\$0
27	Minor Culverts (Widen)	0.0	m2	\$2,157.96	\$0
28	Major Culverts (New)	36.0	m	\$8,480.80	\$305,309
29	Major Culverts (Widen)	0.0	m	\$8,480.80	\$0
30	Typ. Storm Sewer	2,215.0	m	\$508.12	\$1,125,494
31	Oil/Grit Separators	3.0	ea.	\$44,291.00	\$132,873
32	Sewer extension	0.0	m	\$1,146.52	\$0
33	Outfall	3.0	each	\$22,677.86	\$68,034
	Protective Barriers				
34	Retaining Walls	0.0	sq. m	\$663.81	\$0
35	Reinforced Earth Wall	2,062.0	sq. m	\$500.00	\$1,031,000
36	Steel Beam Guard Rail	170.0	m	\$72.36	\$12,301
37	Eccentric Loaders	4.0	ea.	\$3,215.00	\$12,860
38	Proprietary Barriers	0.0	ea.	\$52,664.52	\$0
39	Temp. Jersey Barriers	360.0	m	\$66.43	\$23,915
<b>B Landscaping</b>					
40	Boulevard Trees	2,215.0	m	\$117.50	\$260,263
41	Sodding	9,942.3	m2	\$10.00	\$99,423
42	Topsoil & Seed	0.0	m2	\$4.50	\$0
<b>C. Electrical</b>					
	Streetlighting				
43	In Boulevard	2,215.0	m	\$263.99	\$584,731
44	In Median	0.0	m	\$176.30	\$0
	Traffic Signals	0.0			
45	Temporary Signals	2.0	each	\$60,598.70	\$121,197
46	Arterial Intersection	1.0	each	\$264,677.96	\$264,678
47	Collector Intersection	1.0	each	\$211,680.50	\$211,680
48	Local Intersection	3.0	each	\$178,737.40	\$536,212
49	Interconnect	1,915.0	m	\$69.44	\$132,971
<b>D. Structures</b>					
50	Grade Separation	0.0	each	\$16,433,844.37	\$0
51	Bridge (New)	3,686.2	m2 deck area	\$2,987.40	\$11,012,160
52	Bridge (Widen)	0.0	m2 deck area	4182.366438	\$0
<b>E. Miscellaneous</b>					
53		0	each	\$0.00	\$0
54		0	each	\$0.00	\$0
<b>Sub Total All Items</b>					<b>\$19,777,140</b>
	25% Contingency				\$4,944,285
<b>Sub Total</b>					<b>\$24,721,425</b>
	15% Engineering				\$3,708,214
<b>Grand Total</b>					<b>\$28,429,639</b>
<b>F Property</b>					
55	Residential	450.0	m2	\$117.50	\$52,875
56	Commercial	30,638.0	m2	\$225.00	\$6,893,550
	Subtotal Property				<b>\$6,946,425</b>
<b>TOTAL ESTIMATED COST</b>					<b>\$35,376,064</b>

# Midtown Oakville EA

## Preliminary Quantities and Cost Estimate

### CONSTRUCTION DETAILS

**Project Location:** Cross Avenue  
**From:** 18510  
**To:** 21090  
**Project Description:** Midtown Oakville EA

NO	ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Roadwork's &amp; Drainage</b>					
1	Clearing and Grubbing	4.7	ha	\$10,000.00	\$47,450
2	Earth Excavation	41,690.0	m3	\$22.44	\$935,524
3	Earth Borrow	90,927.0	m3	\$10.00	\$909,270
4	Granular A (150mm)	18,840.0	T	\$21.42	\$403,553
5	Granular B (450mm)	49,530.0	T	\$20.40	\$1,010,412
6	Surface Course Asphalt (50mm)	7,970.0	T	\$100.00	\$797,000
7	Base Course Asphalt (100mm)	12,930.0	T	\$95.00	\$1,228,350
8	Grind and overlay:	17,140.0	m2	\$15.82	\$271,134
9	Curb & Gutter	6,420.0	m	\$85.44	\$548,514
10	Concrete Kill Strips	2,300.0	m	\$48.91	\$112,493
11	Subdrains	6,420.0	m	\$19.29	\$123,842
12	Shoulders	0.0	m	\$190.21	\$0
	Median				
13	Curbs	2,540.0	m	\$85.44	\$217,013
14	Concrete Kill Strips	2,540.0	m	\$48.91	\$124,231
15	Sodding	1,610.0	m2	\$10.00	\$16,100
	Pavement	0.0	m2	\$72.44	\$0
	Boulevard Items				
16	Sidewalks	15,495.0	m2	\$60.71	\$940,701
17	Pedestrian Railings	0.0	m	\$165.67	\$0
18	Cyclepaths	930.0	m2	\$23.41	\$21,771
19	Driveway (Res.)	520.0	m2	\$50.12	\$26,060
20	Driveway (Comm.)	1,065.0	m2	\$77.68	\$82,726
21	Chain link fencing (1.2m)	0.0	m	\$96.73	\$0
22	Screening Fence (1.8)	0.0	m	\$309.15	\$0
23	Noise Attenuation (1.8m)	0.0	m	\$683.19	\$0
	Pavement Markings				
24	Line Striping	15,660.0	m	\$1.86	\$29,128
	Drainage				
25	Ditching	0.0	m	\$45.21	\$0
26	Minor Culverts (New)	0.0	m2	\$1,798.30	\$0
27	Minor Culverts (Widen)	0.0	m2	\$2,157.96	\$0
28	Major Culverts (New)	80.0	m	\$8,480.80	\$678,464
29	Major Culverts (Widen)	0.0	m	\$8,480.80	\$0
30	Typ. Storm Sewer	3,210.0	m	\$508.12	\$1,631,077
31	Oil/Grit Separators	4.0	ea.	\$44,291.00	\$177,164
32	Sewer extension	20.0	m	\$1,146.52	\$22,930
33	Outfall	2.0	each	\$22,677.86	\$45,356
	Protective Barriers				
34	Retaining Walls	0.0	sq. m	\$663.81	\$0
35	Reinforced Earth Wall	1,773.0	sq. m	\$500.00	\$886,500
36	Steel Beam Guard Rail	410.0	m	\$72.36	\$29,668
37	Eccentric Loaders	3.0	ea	\$3,215.00	\$9,645
38	Proprietary Barriers	0.0	ea.	\$52,664.52	\$0
39	Temp. Jersey Barriers	0.0	m	\$66.43	\$0
<b>B Landscaping</b>					
40	Boulevard Trees	3,210.0	m	\$117.50	\$377,175
41	Sodding	10,805.0	m2	\$10.00	\$108,050
42	Topsoil & Seed	0.0	m2	\$4.50	\$0
<b>C. Electrical</b>					
	Streetlighting				
43	In Boulevard	3,210.0	m	\$263.99	\$847,397
44	In Median	0.0	m	\$176.30	\$0
	Traffic Signals	0.0			
45	Temporary Signals	2.0	each	\$60,598.70	\$121,197
46	Arterial Intersection	1.0	each	\$264,677.96	\$264,678
47	Collector Intersection	3.0	each	\$211,680.50	\$635,041
48	Local Intersection	3.0	each	\$178,737.40	\$536,212
49	Interconnect	2,580.0	m	\$69.44	\$179,146
<b>D. Structures</b>					
50	Grade Separation	0.0	each	\$16,433,844.37	\$0
51	Bridge (New)	995.5	m2 deck area	\$2,987.40	\$2,974,048
52	Bridge (Widen)	0.0	m2 deck area	4182.366438	\$0
<b>E. Miscellaneous</b>					
53	- xxxxxx	0.0	each	\$0.00	\$0
54	Rail Tack Realignment	1.0	each	\$1,000,000.00	\$1,000,000
<b>Sub Total All Items</b>					<b>\$18,369,022</b>
	25% Contingency				\$4,592,256
<b>Sub Total</b>					<b>\$22,961,278</b>
	15% Engineering				\$3,444,192
<b>Grand Total</b>					<b>\$26,405,469</b>
<b>F Property</b>					
55	Residential	0.0	m2	\$117.50	\$0
56	Commercial	62,830.0	m2	\$225.00	\$14,136,750
	Subtotal Property				<b>\$14,136,750</b>
<b>TOTAL ESTIMATED COST</b>					<b>\$40,542,219</b>

# Midtown Oakville EA

## Preliminary Quantities and Cost Estimate

### CONSTRUCTION DETAILS

Project Location: Iroquois Shore Road  
 From: Leighland Avenue  
 To: Eighth Line  
 Project Description: Midtown Oakville EA

NO	ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Roadwork's &amp; Drainage</b>					
1	Clearing and Grubbing	1.7	ha	\$10,000.00	\$17,114
2	Earth Excavation	5,780.0	m3	\$22.44	\$129,703
3	Earth Borrow	0.0	m3	\$10.00	\$0
4	Granular A (150mm)	2,780.0	T	\$21.42	\$59,548
5	Granular B (450mm)	6,930.0	T	\$20.40	\$141,372
6	Surface Course Asphalt (50mm)	950.0	T	\$100.00	\$95,000
7	Base Course Asphalt (100mm)	1,890.0	T	\$95.00	\$179,550
8	Grind and overlay:	15,795.0	m2	\$15.82	\$249,858
9	Curb & Gutter	2,116.0	m	\$85.44	\$180,788
10	Concrete Kill Strips	0.0	m	\$48.91	\$0
11	Subdrains	2,116.0	m	\$19.29	\$40,818
12	Shoulders	0.0	m	\$190.21	\$0
	Median				
13	Curbs	0.0	m	\$85.44	\$0
14	Concrete Kill Strips	0.0	m	\$48.91	\$0
15	Sodding	0.0	m2	\$10.00	\$0
	Pavement	0.0	m2	\$72.44	\$0
	Boulevard Items				
16	Sidewalks	4,063.5	m2	\$60.71	\$246,695
17	Pedestrian Railings	0.0	m	\$165.67	\$0
18	Cyclepaths	0.0	m2	\$23.41	\$0
19	Driveway (Res.)	0.0	m2	\$50.12	\$0
20	Driveway (Comm.)	450.0	m2	\$77.68	\$34,955
21	Chain link fencing (1.2m)	0.0	m	\$96.73	\$0
22	Screening Fence (1.8)	0.0	m	\$309.15	\$0
23	Noise Attenuation (1.8m)	0.0	m	\$683.19	\$0
	Pavement Markings				
24	Line Striping	4,232.0	m	\$1.86	\$7,872
	Drainage				
25	Ditching	0.0	m	\$45.21	\$0
26	Minor Culverts (New)	0.0	m2	\$1,798.30	\$0
27	Minor Culverts (Widen)	0.0	m2	\$2,157.96	\$0
28	Major Culverts (New)	0.0	m	\$8,480.80	\$0
29	Major Culverts (Widen)	0.0	m	\$8,480.80	\$0
30	Typ. Storm Sewer	1,058.0	m	\$508.12	\$537,595
31	Oil/Grit Separators	0.0	ea.	\$44,291.00	\$0
32	Sewer extension	0.0	m	\$1,146.52	\$0
33	Outfall	0.0	each	\$22,677.86	\$0
	Protective Barriers				
34	Retaining Walls	0.0	sq. m	\$663.81	\$0
35	Reinforced Earth Wall	0.0	sq. m	\$500.00	\$0
36	Steel Beam Guard Rail	0.0	m	\$72.36	\$0
37	Eccentric Loaders	0.0	ea.	\$3,215.00	\$0
38	Proprietary Barriers	0.0	ea.	\$52,664.52	\$0
39	Temp. Jersey Barriers	0.0	m	\$66.43	\$0
<b>B Landscaping</b>					
40	Boulevard Trees	1,058.0	m	\$117.50	\$124,315
41	Sodding	2,757.5	m2	\$10.00	\$27,575
42	Topsoil & Seed	0.0	m2	\$4.50	\$0
<b>C. Electrical</b>					
	Streetlighting				
43	In Boulevard	1,058.0	m	\$263.99	\$279,298
44	In Median	0.0	m	\$176.30	\$0
	Traffic Signals	0.0			
45	Temporary Signals	1.0	each	\$60,598.70	\$60,599
46	Arterial Intersection	1.0	each	\$264,677.96	\$264,678
47	Collector Intersection	1.0	each	\$211,680.50	\$211,680
48	Local Intersection	0.0	each	\$178,737.40	\$0
49	Interconnect	0.0	m	\$69.44	\$0
<b>D. Structures</b>					
50	Grade Separation	0.0	each	\$16,433,844.37	\$0
51	Bridge (New)	0.0	m2 deck area	\$2,987.40	\$0
52	Bridge (Widen)	0.0	m2 deck area	4182.366438	\$0
<b>E. Miscellaneous</b>					
53		0	each	\$0.00	\$0
54		0	each	\$0.00	\$0
<b>Sub Total All Items</b>					<b>\$2,889,011</b>
	25% Contingency				\$722,253
<b>Sub Total</b>					<b>\$3,611,264</b>
	15% Engineering				\$541,690
<b>Grand Total</b>					<b>\$4,152,953</b>
<b>F Property</b>					
55	Residential	250.0	m2	\$117.50	\$29,375
56	Commercial	5,900.0	m2	\$225.00	\$1,327,500
	Subtotal Property				<b>\$1,356,875</b>
<b>TOTAL ESTIMATED COST</b>					<b>\$5,509,828</b>

# Midtown Oakville EA

## Preliminary Quantities and Cost Estimate

### CONSTRUCTION DETAILS

**Project Location:** NS-E Ramp  
**From:** CH 5000  
**To:** CH 6084  
**Project Description:** Midtown Oakville EA

NO	ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Roadwork's &amp; Drainage</b>					
1	Clearing and Grubbing	1.6	ha	\$10,000.00	\$15,800
2	Earth Excavation	5,860	m3	\$22.44	\$131,498
3	Earth Borrow	11,030.0	m3	\$10.00	\$110,300
4	Granular A (150mm)	1,850.0	T	\$21.42	\$39,627
5	Granular B (450mm)	7,190.0	T	\$20.40	\$146,676
6	Surface Course Asphalt (50mm)	2,760.0	T	\$100.00	\$276,000
7	Base Course Asphalt (100mm)	4,310.0	T	\$95.00	\$409,450
8	Grind and overlay:	0.0	m2	\$15.82	\$0
9	Curb & Gutter	0.0	m	\$85.44	\$0
10	Concrete Kill Strips	0.0	m	\$48.91	\$0
11	Subdrains	0.0	m	\$19.29	\$0
12	Shoulders	0.0	m	\$190.21	\$0
	Median				
13	Curbs	0.0	m	\$85.44	\$0
14	Concrete Kill Strips	0.0	m	\$48.91	\$0
15	Sodding	0	m2	\$10.00	\$0
	Pavement	0.00	m2	\$72.44	\$0
	Boulevard Items				
16	Sidewalks	0	m2	\$60.71	\$0
17	Pedestrian Railings	0	m	\$165.67	\$0
18	Cyclepaths	0	m2	\$23.41	\$0
19	Driveway (Res.)	0	m2	\$50.12	\$0
20	Driveway (Comm.)	0	m2	\$77.68	\$0
21	Chain link fencing (1.2m)	0	m	\$96.73	\$0
22	Screening Fence (1.8)	0	m	\$309.15	\$0
23	Noise Attenuation (1.8m)	0	m	\$683.19	\$0
	Pavement Markings				
24	Line Striping	1,084	m	\$1.86	\$2,016
	Drainage				
25	Ditching	2,168	m	\$45.21	\$98,018
26	Minor Culverts (New)	20	m2	\$1,798.30	\$35,966
27	Minor Culverts (Widen)	0	m2	\$2,157.96	\$0
28	Major Culverts (New)	60	m	\$8,480.80	\$508,848
29	Major Culverts (Widen)	0	m	\$8,480.80	\$0
30	Typ. Storm Sewer	0	m	\$0.00	\$0
31	Oil/Grit Separators	0	ea.	\$44,291.00	\$0
32	Sewer extension	0	m	\$1,146.52	\$0
33	Outfall	0	each	\$22,677.86	\$0
	Protective Barriers				
34	Retaining Walls	120	sq. m	\$663.81	\$79,657
35	Reinforced Earth Wall	0	sq. m	\$500.00	\$0
36	Steel Beam Guard Rail	150	m	\$72.36	\$10,854
37	Eccentric Loaders	1	ea.	\$3,215.00	\$3,215
38	Proprietary Barriers	0	ea.	\$52,664.52	\$0
39	Concrete Barriers	30	m	\$300.00	\$9,000
<b>B Landscaping</b>					
40	Boulevard Trees	0	m	\$117.50	\$0
41	Sodding	5,420	m2	\$10.00	\$54,200
42	Topsoil & Seed	2,981	m2	\$4.50	\$13,415
<b>C. Electrical</b>					
	Streetlighting				
43	In Boulevard	1084	m	\$263.99	\$286,162
44	In Median	0	m	\$176.30	\$0
	Traffic Signals				
45	Temporary Signals	0	each	\$60,598.70	\$0
46	Arterial Intersection	0	each	\$264,677.96	\$0
47	Collector Intersection	0	each	\$211,680.50	\$0
48	Local Intersection	0	each	\$178,737.40	\$0
49	Interconnect	1084	m	\$69.44	\$75,269
<b>D. Structures</b>					
50	Grade Separation	0	each	\$16,433,844.37	\$0
51	Bridge (New)	0	m2 deck area	\$2,987.40	\$0
52	Bridge (Widen)	0	m2 deck area	\$4,182.37	\$0
<b>E. Miscellaneous</b>					
53	Gantry Sign Relocation	1	each	\$175,000.00	\$175,000
54	- xxxxxx	0	each	\$0.00	\$0
<b>Sub Total All Items</b>					<b>\$2,480,971</b>
	25% Contingency				\$620,243
<b>Sub Total</b>					<b>\$3,101,214</b>
	15% Engineering				\$465,182
<b>Grand Total</b>					<b>\$3,566,396</b>
<b>F Property</b>					
55	Residential	0	m2	\$117.50	\$0
56	Commercial	2130	m2	\$225.00	\$479,250
	Subtotal Property				\$479,250
<b>TOTAL ESTIMATED COST</b>					<b>\$4,045,646</b>

# Midtown Oakville EA

## Preliminary Quantities and Cost Estimate

### CONSTRUCTION DETAILS

Project Location:	E-NS Ramp
From:	7000
To:	7790
Project Description:	Midtown Oakville EA

NO	ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Roadwork's &amp; Drainage</b>					
1	Clearing and Grubbing	1.6	ha	\$10,000.00	\$15,800
2	Earth Excavation	14,890	m3	\$22.44	\$334,132
3	Earth Borrow	570.0	m3	\$10.00	\$5,700
4	Granular A (150mm)	1,850.0	T	\$21.42	\$39,627
5	Granular B (450mm)	7,190.0	T	\$20.40	\$146,676
6	Surface Course Asphalt (50mm)	1,920.0	T	\$100.00	\$192,000
7	Base Course Asphalt (100mm)	2,920.0	T	\$95.00	\$277,400
8	Grind and overlay:	0.0	m2	\$15.82	\$0
9	Curb & Gutter	190.0	m	\$85.44	\$16,233
10	Concrete Kill Strips	0.0	m	\$48.91	\$0
11	Subdrains	790.0	m	\$19.29	\$15,239
12	Shoulders	0.0	m	\$190.21	\$0
	Median				
13	Curbs	0.0	m	\$85.44	\$0
14	Concrete Kill Strips	0.0	m	\$48.91	\$0
15	Sodding	0	m2	\$10.00	\$0
	Pavement	0.00	m2	\$72.44	\$0
	Boulevard Items				
16	Sidewalks	0	m2	\$60.71	\$0
17	Pedestrian Railings	0	m	\$165.67	\$0
18	Cyclepaths	0	m2	\$23.41	\$0
19	Driveway (Res.)	0	m2	\$50.12	\$0
20	Driveway (Comm.)	0	m2	\$77.68	\$0
21	Chain link fencing (1.2m)	0	m	\$96.73	\$0
22	Screening Fence (1.8)	0	m	\$309.15	\$0
23	Noise Attenuation (1.8m)	0	m	\$683.19	\$0
	Pavement Markings				
24	Line Striping	1,580	m	\$1.86	\$2,939
	Drainage				
25	Ditching	1,580	m	\$45.21	\$71,434
26	Minor Culverts (New)	100	m2	\$1,798.30	\$179,830
27	Minor Culverts (Widen)	0	m2	\$2,157.96	\$0
28	Major Culverts (New)	60	m	\$8,480.80	\$508,848
29	Major Culverts (Widen)	0	m	\$8,480.80	\$0
30	Typ. Storm Sewer	790	m	\$508.12	\$401,418
31	Oil/Grit Separators	1	ea.	\$44,291.00	\$44,291
32	Sewer extension	0	m	\$1,146.52	\$0
33	Outfall	0	each	\$22,677.86	\$0
	Protective Barriers				
34	Retaining Walls	100	sq. m	\$663.81	\$66,381
35	Reinforced Earth Wall	0	sq. m	\$500.00	\$0
36	Steel Beam Guard Rail	105	m	\$72.36	\$7,598
37	Eccentric Loaders	0	ea	\$3,215.00	\$0
38	Proprietary Barriers	530	ea.	\$600.00	\$318,000
39	Concrete Barriers	80	m	\$300.00	\$24,000
<b>B Landscaping</b>					
40	Boulevard Trees	0	m	\$117.50	\$0
41	Sodding	3,950	m2	\$10.00	\$39,500
42	Topsoil & Seed	3,555	m2	\$4.50	\$15,998
<b>C. Electrical</b>					
	Streetlighting				
43	In Boulevard	790	m	\$263.99	\$208,550
44	In Median	0	m	\$176.30	\$0
	Traffic Signals				
45	Temporary Signals	0	each	\$60,598.70	\$0
46	Arterial Intersection	0	each	\$264,677.96	\$0
47	Collector Intersection	0	each	\$211,680.50	\$0
48	Local Intersection	0	each	\$178,737.40	\$0
49	Interconnect	790	m	\$69.44	\$54,855
<b>D. Structures</b>					
50	Grade Separation	0	each	\$16,433,844.37	\$0
51	Bridge (New)	0	m2 deck area	\$2,987.40	\$0
52	Bridge (Widen)	0	m2 deck area	\$4,182.37	\$0
<b>E. Miscellaneous</b>					
53	New Sign Gantry	2	each	\$175,000.00	\$350,000
54	- xxxxxx	0	each	\$0.00	\$0
<b>Sub Total All Items</b>					<b>\$3,336,447</b>
	25% Contingency				\$834,112
<b>Sub Total</b>					<b>\$4,170,559</b>
	15% Engineering				\$625,584
<b>Grand Total</b>					<b>\$4,796,143</b>
<b>F Property</b>					
55	Residential	0	m2	\$117.50	\$0
56	Commercial	0	m2	\$225.00	\$0
	Subtotal Property				<b>\$0</b>
<b>TOTAL ESTIMATED COST</b>					<b>\$4,796,143</b>



# Midtown Oakville EA

## Preliminary Quantities and Cost Estimate

### CONSTRUCTION DETAILS

**Project Location:** W-NS Ramp  
**From:** 2000  
**To:** 3255  
**Project Description:** Midtown Oakville EA

NO	ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Roadwork's &amp; Drainage</b>					
1	Clearing and Grubbing	2.9	ha	\$10,000.00	\$28,800
2	Earth Excavation	7800	m3	\$22.44	\$175,032
3	Earth Borrow	7840	m3	\$10.00	\$78,400
4	Granular A (150mm)	4140	T	\$21.42	\$88,679
5	Granular B (450mm)	15440	T	\$20.40	\$314,976
6	Surface Course Asphalt (50mm)	3590	T	\$100.00	\$359,000
7	Base Course Asphalt (100mm)	4180	T	\$95.00	\$397,100
8	Grind and overlay:	160	m2	\$15.82	\$2,531
9	Curb & Gutter	1190	m	\$85.44	\$101,672
10	Concrete Kill Strips	0	m	\$48.91	\$0
11	Subdrains	1790	m	\$19.29	\$34,529
12	Shoulders	0	m	\$190.21	\$0
	Median				
13	Curbs	400	m	\$85.44	\$34,175
14	Concrete Kill Strips	400	m	\$48.91	\$19,564
15	Sodding	0	m2	\$10.00	\$0
	Pavement	0	m2	\$72.44	\$0
	Boulevard Items	0			
16	Sidewalks	0	m2	\$60.71	\$0
17	Pedestrian Railings	0	m	\$165.67	\$0
18	Cyclepaths	0	m2	\$23.41	\$0
19	Driveway (Res.)	0	m2	\$50.12	\$0
20	Driveway (Comm.)	104	m2	\$77.68	\$8,040
21	Chain link fencing (1.2m)	0	m	\$96.73	\$0
22	Screening Fence (1.8)	0	m	\$309.15	\$0
23	Noise Attenuation (1.8m)	0	m	\$683.19	\$0
	Pavement Markings				
24	Line Striping	3235	m	\$1.86	\$6,017
	Drainage				
25	Ditching	3080	m	\$45.21	\$139,251
26	Minor Culverts (New)	95	m2	\$1,798.30	\$170,839
27	Minor Culverts (Widen)	0	m2	\$2,157.96	\$0
28	Major Culverts (New)	60	m	\$8,480.80	\$508,848
29	Major Culverts (Widen)	0	m	\$8,480.80	\$0
30	Typ. Storm Sewer	695	m	\$152.22	\$105,791
31	Oil/Grit Separators	0	ea.	\$44,291.00	\$0
32	Sewer extension	0	m	\$1,146.52	\$0
33	Outfall	0	each	\$22,677.86	\$0
	Protective Barriers				
34	Retaining Walls	0	sq. m	\$663.81	\$0
35	Reinforced Earth Wall	0	sq. m	\$500.00	\$0
36	Steel Beam Guard Rail	65	m	\$72.36	\$4,703
37	Eccentric Loaders	1	ea	\$3,215.00	\$3,215
38	Proprietary Barriers	0	ea.	\$52,664.52	\$0
39	Concrete Barriers	510	m	\$300.00	\$153,000
<b>B Landscaping</b>					
40	Boulevard Trees	695	m	\$117.50	\$81,663
41	Sodding	10127	m2	\$10.00	\$101,265
42	Topsoil & Seed	4879	m2	\$4.50	\$21,954
<b>C. Electrical</b>					
	Streetlighting				
43	In Boulevard	1760	m	\$263.99	\$464,617
44	In Median	0	m	\$176.30	\$0
	Traffic Signals	0			
45	Temporary Signals	1	each	\$60,598.70	\$60,599
46	Arterial Intersection	1	each	\$264,677.96	\$264,678
47	Collector Intersection	0	each	\$211,680.50	\$0
48	Local Intersection	0	each	\$178,737.40	\$0
49	Interconnect	780	m	\$69.44	\$54,160
<b>D. Structures</b>					
50	Grade Separation	0	each	\$16,433,844.37	\$0
51	Bridge (New)	0	m2 deck area	\$2,987.40	\$0
52	Bridge (Widen)	0	m2 deck area	4182.366438	\$0
<b>E. Miscellaneous</b>					
53	Relocate Sign Gantry	2	Ea.	\$175,000.00	\$350,000
54	Sign Gantry	1	Ea.	\$175,000.00	\$175,000
<b>Sub Total All Items</b>					<b>\$4,308,097</b>
	25% Contingency				\$1,077,024
<b>Sub Total</b>					<b>\$5,385,121</b>
	15% Engineering				\$807,768
<b>Grand Total</b>					<b>\$6,192,890</b>
<b>F Property</b>					
55	Residential	0	m2	\$117.50	\$0
56	Commercial	0	m2	\$225.00	\$0
	Subtotal Property				\$0
<b>TOTAL ESTIMATED COST</b>					<b>\$6,192,890</b>

# Midtown Oakville EA

## Preliminary Quantities and Cost Estimate

### CONSTRUCTION DETAILS

**Project Location:** Royal Windsor Drive  
**From:** Eighth Line  
**To:** The Canadian Road  
**Project Description:** Midtown Oakville EA

NO	ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Roadwork's &amp; Drainage</b>					
1	Clearing and Grubbing	3.8	ha	\$10,000.00	\$37,500
2	Earth Excavation	4,570.0	m3	\$22.44	\$102,551
3	Earth Borrow	76,920.0	m3	\$10.00	\$769,200
4	Granular A (150mm)	6,150.0	T	\$21.42	\$131,733
5	Granular B (450mm)	16,980.0	T	\$20.40	\$346,392
6	Surface Course Asphalt (50mm)	2,100.0	T	\$100.00	\$210,000
7	Base Course Asphalt (100mm)	4,190.0	T	\$95.00	\$398,050
8	Grind and overlay:	2,475.0	m2	\$15.82	\$39,152
9	Curb & Gutter	2,000.0	m	\$85.44	\$170,877
10	Concrete Kill Strips	0.0	m	\$48.91	\$0
11	Subdrains	2,000.0	m	\$19.29	\$38,580
12	Shoulders	0.0	m	\$190.21	\$0
	Median				
13	Curbs	2,000.0	m	\$85.44	\$170,877
14	Concrete Kill Strips	2,000.0	m	\$48.91	\$97,820
15	Sodding	4,500.0	m2	\$10.00	\$45,000
	Pavement	0.0	m2	\$72.44	\$0
	Boulevard Items				
16	Sidewalks	2,976.0	m2	\$60.71	\$180,673
17	Pedestrian Railings	2.0	m	\$165.67	\$331
18	Cyclepaths	275.0	m2	\$23.41	\$6,438
19	Driveway (Res.)	0.0	m2	\$50.12	\$0
20	Driveway (Comm.)	48.0	m2	\$77.68	\$3,728
21	Chain link fencing (1.2m)	0.0	m	\$96.73	\$0
22	Screening Fence (1.8)	0.0	m	\$309.15	\$0
23	Noise Attenuation (1.8m)	0.0	m	\$683.19	\$0
	Pavement Markings				
24	Line Striping	5,060.0	m	\$1.86	\$9,412
	Drainage				
25	Ditching	0.0	m	\$45.21	\$0
26	Minor Culverts (New)	102.5	m2	\$1,798.30	\$184,326
27	Minor Culverts (Widen)	0.0	m2	\$2,157.96	\$0
28	Major Culverts (New)	140.0	m	\$8,480.80	\$1,187,312
29	Major Culverts (Widen)	0.0	m	\$8,480.80	\$0
30	Typ. Storm Sewer	1,000.0	m	\$508.12	\$508,124
31	Oil/Grit Separators	2.0	ea.	\$44,291.00	\$88,582
32	Sewer extension	0.0	m	\$1,146.52	\$0
33	Outfall	2.0	each	\$22,677.86	\$45,356
	Protective Barriers				
34	Retaining Walls	0.0	sq. m	\$663.81	\$0
35	Reinforced Earth Wall	2,307.0	sq. m	\$500.00	\$1,153,500
36	Steel Beam Guard Rail	1,015.0	m	\$72.36	\$73,445
37	Eccentric Loaders	4.0	ea.	\$3,215.00	\$12,860
38	Proprietary Barriers	0.0	ea.	\$52,664.52	\$0
39	Temp. Jersey Barriers	50.0	m	\$66.43	\$3,322
<b>B. Landscaping</b>					
40	Boulevard Trees	1,000.0	m	\$117.50	\$117,500
41	Sodding	4,942.0	m2	\$10.00	\$49,420
42	Topsoil & Seed	0.0	m2	\$4.50	\$0
<b>C. Electrical</b>					
	Streetlighting				
43	In Boulevard	1,000.0	m	\$263.99	\$263,987
44	In Median	0.0	m	\$176.30	\$0
	Traffic Signals	0.0			
45	Temporary Signals	3.0	each	\$60,598.70	\$181,796
46	Arterial Intersection	3.0	each	\$264,677.96	\$794,034
47	Collector Intersection	1.0	each	\$211,680.50	\$211,680
48	Local Intersection	0.0	each	\$178,737.40	\$0
49	Interconnect	1,000.0	m	\$69.44	\$69,436
<b>D. Structures</b>					
50	Grade Separation	0.0	each	\$16,433,844.37	\$0
51	Bridge (New)	1,396.2	m2 deck area	\$2,987.40	\$4,170,900
52	Bridge (Widen)	1,535.4	m2 deck area	4182.366438	\$6,421,417
<b>E. Miscellaneous</b>					
53	- xxxxxx	0	Ea.	0	\$0
54	- xxxxxx	0	Ea.	0	\$0
<b>Sub Total All Items</b>					<b>\$18,295,310</b>
	25% Contingency				\$4,573,827
<b>Sub Total</b>					<b>\$22,869,137</b>
	15% Engineering				\$3,430,371
<b>Grand Total</b>					<b>\$26,299,508</b>
<b>F Property</b>					
55	Residential	0.0	m2	\$117.50	\$0
56	Commercial	250.0	m2	\$225.00	\$56,250
	Subtotal Property				<b>\$56,250</b>
<b>TOTAL ESTIMATED COST</b>					<b>\$26,355,758</b>

# Midtown Oakville EA

## Preliminary Quantities and Cost Estimate

### CONSTRUCTION DETAILS

**Project Location:** AT Crossing West  
**From:** Argus Road  
**To:** Oakville Place  
**Project Description:** Midtown Oakville EA

NO	ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Roadwork's &amp; Drainage</b>					
1	Clearing and Grubbing	0.4	ha	\$10,000.00	\$3,600
2	Earth Excavation	0.0	m3	\$22.44	\$0
3	Earth Borrow	10,340.0	m3	\$10.00	\$103,400
4	Granular A (150mm)	590.0	T	\$21.42	\$12,638
5	Granular B (450mm)	0.0	T	\$20.40	\$0
6	Surface Course Asphalt (50mm)	0.0	T	\$100.00	\$0
7	Base Course Asphalt (100mm)	410.0	T	\$95.00	\$38,950
8	Grind and overlay:	0.0	m2	\$15.82	\$0
9	Curb & Gutter	0.0	m	\$85.44	\$0
10	Concrete Kill Strips	0.0	m	\$48.91	\$0
11	Subdrains	1,080.0	m	\$19.29	\$20,833
12	Shoulders	0.0	m	\$190.21	\$0
	Median				
13	Curbs	0.0	m	\$85.44	\$0
14	Concrete Kill Strips	0.0	m	\$48.91	\$0
15	Sodding	0.0	m2	\$10.00	\$0
	Pavement	0.0	m2	\$72.44	\$0
	Boulevard Items				
16	Sidewalks	0.0	m2	\$60.71	\$0
17	Pedestrian Railings	775.0	m	\$165.67	\$128,394
18	Cyclepaths	0.0	m2	\$23.41	\$0
19	Driveway (Res.)	0.0	m2	\$50.12	\$0
20	Driveway (Comm.)	0.0	m2	\$77.68	\$0
21	Chain link fencing (1.2m)	0.0	m	\$96.73	\$0
22	Screening Fence (1.8)	0.0	m	\$309.15	\$0
23	Noise Attenuation (1.8m)	0.0	m	\$683.19	\$0
	Pavement Markings				
24	Line Striping	0.0	m	\$1.86	\$0
	Drainage				
25	Ditching	0.0	m	\$45.21	\$0
26	Minor Culverts (New)	0.0	m2	\$1,798.30	\$0
27	Minor Culverts (Widen)	0.0	m2	\$2,157.96	\$0
28	Major Culverts (New)	0.0	m	\$8,480.80	\$0
29	Major Culverts (Widen)	0.0	m	\$8,480.80	\$0
30	Typ. Storm Sewer	0.0	m	\$508.12	\$0
31	Oil/Grit Separators	0.0	ea.	\$44,291.00	\$0
32	Sewer extension	0.0	m	\$1,146.52	\$0
33	Outfall	0.0	each	\$22,677.86	\$0
	Protective Barriers				
34	Retaining Walls	820.8	sq. m	\$663.81	\$544,822
35	Reinforced Earth Wall	0.0	sq. m	\$500.00	\$0
36	Steel Beam Guard Rail	0.0	m	\$72.36	\$0
37	Eccentric Loaders	0.0	ea	\$3,215.00	\$0
38	Proprietary Barriers	0.0	ea.	\$52,664.52	\$0
39	Temp. Jersey Barriers	0.0	m	\$66.43	\$0
<b>B Landscaping</b>					
40	Boulevard Trees	0.0	m	\$117.50	\$0
41	Sodding	540.0	m2	\$10.00	\$5,400
42	Topsoil & Seed	0.0	m2	\$4.50	\$0
<b>C. Electrical</b>					
	<b>Streetlighting</b>				
43	In Boulevard	540.0	m	\$263.99	\$142,553
44	In Median	0.0	m	\$176.30	\$0
	<b>Traffic Signals</b>				
45	Temporary Signals	0.0	each	\$60,598.70	\$0
46	Arterial Intersection	0.0	each	\$264,677.96	\$0
47	Collector Intersection	0.0	each	\$211,680.50	\$0
48	Local Intersection	0.0	each	\$178,737.40	\$0
49	Interconnect	0.0	m	\$69.44	\$0
<b>D. Structures</b>					
50	Grade Separation	0.0	each	\$16,433,844.37	\$0
51	Bridge (New)	570.0	m2 deck area	\$2,987.40	\$1,702,819
52	Bridge (Widen)	0.0	m2 deck area	4182.366438	\$0
<b>E. Miscellaneous</b>					
53	- xxxxxx	0	each	\$0.00	\$0
54	- xxxxxx	0	each	\$0.00	\$0
<b>Sub Total All Items</b>					<b>\$2,703,409</b>
	25% Contingency				\$675,852
<b>Sub Total</b>					<b>\$3,379,261</b>
	15% Engineering				\$506,889
<b>Grand Total</b>					<b>\$3,886,151</b>
<b>F Property</b>					
55	Residential	0.0	m2	\$117.50	\$0
56	Commercial	3,400.0	m2	\$225.00	\$765,000
	Subtotal Property				<b>\$765,000</b>
<b>TOTAL ESTIMATED COST</b>					<b>\$4,651,151</b>

# Midtown Oakville EA

## Preliminary Quantities and Cost Estimate

### CONSTRUCTION DETAILS

**Project Location:** AT Crossing East  
**From:** Iroquois Shore Road  
**To:** Cross Avenue  
**Project Description:** Midtown Oakville EA

NO	ITEM	ESTIMATED QUANTITY	UNIT	UNIT PRICE	TOTAL
<b>A. Roadwork's &amp; Drainage</b>					
1	Clearing and Grubbing	0.7	ha	\$10,000.00	\$7,100
2	Earth Excavation	0.0	m3	\$22.44	\$0
3	Earth Borrow	5,090.0	m3	\$10.00	\$50,900
4	Granular A (150mm)	210.0	T	\$21.42	\$4,498
5	Granular B (450mm)	0.0	T	\$20.40	\$0
6	Surface Course Asphalt (50mm)	0.0	T	\$100.00	\$0
7	Base Course Asphalt (100mm)	140.0	T	\$95.00	\$13,300
8	Grind and overlay:	0.0	m2	\$15.82	\$0
9	Curb & Gutter	0.0	m	\$85.44	\$0
10	Concrete Kill Strips	0.0	m	\$48.91	\$0
11	Subdrains	0.0	m	\$19.29	\$0
12	Shoulders	380.0	m	\$190.21	\$72,280
Median					
13	Curbs	0.0	m	\$85.44	\$0
14	Concrete Kill Strips	0.0	m	\$48.91	\$0
15	Sodding	0.0	m2	\$10.00	\$0
	Pavement	0.0	m2	\$72.44	\$0
Boulevard Items					
16	Sidewalks	0.0	m2	\$60.71	\$0
17	Pedestrian Railings	380.0	m	\$165.67	\$62,955
18	Cyclepaths	0.0	m2	\$23.41	\$0
19	Driveway (Res.)	0.0	m2	\$50.12	\$0
20	Driveway (Comm.)	0.0	m2	\$77.68	\$0
21	Chain link fencing (1.2m)	0.0	m	\$96.73	\$0
22	Screening Fence (1.8)	0.0	m	\$309.15	\$0
23	Noise Attenuation (1.8m)	0.0	m	\$683.19	\$0
Pavement Markings					
24	Line Striping	0.0	m	\$1.86	\$0
Drainage					
25	Ditching	380.0	m	\$45.21	\$17,180
26	Minor Culverts (New)	0.0	m2	\$1,798.30	\$0
27	Minor Culverts (Widen)	0.0	m2	\$2,157.96	\$0
28	Major Culverts (New)	0.0	m	\$8,480.80	\$0
29	Major Culverts (Widen)	0.0	m	\$8,480.80	\$0
30	Typ. Storm Sewer	0.0	m	\$508.12	\$0
31	Oil/Grit Separators	0.0	ea.	\$44,291.00	\$0
32	Sewer extension	0.0	m	\$1,146.52	\$0
33	Outfall	0.0	each	\$22,677.86	\$0
Protective Barriers					
34	Retaining Walls	0.0	sq. m	\$663.81	\$0
35	Reinforced Earth Wall	0.0	sq. m	\$500.00	\$0
36	Steel Beam Guard Rail	0.0	m	\$72.36	\$0
37	Eccentric Loaders	0.0	ea	\$3,215.00	\$0
38	Proprietary Barriers	0.0	ea.	\$52,664.52	\$0
39	Temp. Jersey Barriers	0.0	m	\$66.43	\$0
<b>B Landscaping</b>					
40	Boulevard Trees	0.0	m	\$117.50	\$0
41	Sodding	1,650.0	m2	\$10.00	\$16,500
42	Topsoil & Seed	5,790.0	m2	\$4.50	\$26,055
<b>C. Electrical</b>					
<b>Streetlighting</b>					
43	In Boulevard	330.0	m	\$263.99	\$87,116
44	In Median	0.0	m	\$176.30	\$0
<b>Traffic Signals</b>					
45	Temporary Signals	0.0	each	\$60,598.70	\$0
46	Arterial Intersection	0.0	each	\$264,677.96	\$0
47	Collector Intersection	0.0	each	\$211,680.50	\$0
48	Local Intersection	0.0	each	\$178,737.40	\$0
49	Interconnect	0.0	m	\$69.44	\$0
<b>D. Structures</b>					
50	Grade Separation	0.0	each	\$16,433,844.37	\$0
51	Bridge (New)	3,200.0	m2 deck area	\$2,987.40	\$9,559,685
52	Bridge (Widen)	0.0	m2 deck area	4182.366438	\$0
<b>E. Miscellaneous</b>					
53	- xxxxxx	0	each	\$0.00	\$0
54	- xxxxxx	0	each	\$0.00	\$0
<b>Sub Total All Items</b>					\$9,917,569
25% Contingency					\$2,479,392
<b>Sub Total</b>					<b>\$12,396,961</b>
15% Engineering					\$1,859,544
<b>Grand Total</b>					<b>\$14,256,505</b>
<b>F Property</b>					
55	Residential	0.0	m2	\$117.50	\$0
56	Commercial	0.0	m2	\$225.00	\$0
Subtotal Property					\$0
<b>TOTAL ESTIMATED COST</b>					<b>\$14,256,505</b>