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**APPENDIX M**  
**Preliminary Cost Estimate – At-Grade Section Highways**

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3213010 Strategic Plan for the Rehabilitation of the Gardiner Expressway - City of Toronto					
Cost Estimates for <b>Contract G2</b> (Pavement Resurfacing, Drainage, Roadside Safety and Traffic Staging)					
STA 226+00 (Dowling Avenue) to STA 241+00 (elevated section west abutment)					
Item	Quantity	(Rounded)	Unit	Unit Cost	Cost
<b>GRADING</b>					
Removal of Asphalt Pavement (90 mm) (mainline)	42,091	40,000	m2	\$ 4	\$ 160,000
Superpave 19.0 (50 mm) - Mainline	5,051	5,000	t	\$ 81	\$ 405,000
Superpave 19.0 (180 mm) - Outside Shoulder	4,374	4,000	t	\$ 81	\$ 324,000
SMA (Stone Mastic Asphalt) (40 mm)	4,041	4,000	t	\$ 127.00	\$ 508,000
200 mm Pipe Sewer	40	40	m	\$ 140	\$ 5,600
300 mm Pipe Sewer	265	300	m	\$ 180	\$ 54,000
375 mm Pipe Sewer	390	400	m	\$ 155	\$ 62,000
450 mm Pipe Sewer	220	200	m	\$ 160	\$ 32,000
525 mm Pipe Sewer	157	200	m	\$ 200	\$ 40,000
600 mm Pipe Sewer	185	200	m	\$ 250	\$ 50,000
675 mm Pipe Sewer	313	300	m	\$ 320	\$ 96,000
750 mm Pipe Sewer	210	200	m	\$ 350	\$ 70,000
900 mm Pipe Sewer	140	100	m	\$ 525	\$ 52,500
Removal of <b>Pipes</b> and Culverts	1,920	2,000	m	\$ 100	\$ 200,000
Removal of Maintenance Holes, <b>Catch Basins</b> , Ditch Inlets and Valve Chambers	35	40	ea	\$ 1,000	\$ 40,000
600 mm x 600 mm Manholes, <b>Catch Basins</b> , and Ditch Inlets	35	40	ea	\$ 2,000	\$ 80,000
Remove SBGR (without channel) (outside Shoulder)	150	150	m	\$ 12	
Replace SBGR (without channel) (outside Shoulder)	150	150	m	\$ 73	\$ 10,950
Tall Wall Barrier (precast)		-	m	\$ 275	\$ -
Pavement Marking, Temporary, Paint - Fluorescent Orange	12,000	12,000	m	\$ 2	\$ 24,000
Pavement Marking, Durable	12,000	12,000	m	\$ 8	\$ 96,000
Movable Barrier Shift (HiCo Rate -Toronto)	1	1	LS	\$ 443,000	\$ 443,000
Traffic Control Signing (HiCo Rate - Toronto)	1	1	LS	\$ 620,000	\$ 620,000
<i>Approximate Highway Costs</i>					\$ 3,373,050
<i>MINOR GRADING</i>	20%				\$ 674,610
<i>Sub-Total</i>					<b>\$ 4,047,660</b>

3213010 Strategic Plan for the Rehabilitation of the Gardiner Expressway - City of Toronto					
Cost Estimates for <b>Contract G3</b> (Pavement Resurfacing, Drainage, Illumination, Roadside Safety and Traffic Staging)					
EB from STA 130+00 (Hwy 427/QEW interchange) to STA 172+50 (Wesley St) to westbound from STA 130+00 (Hwy 427/QEW interchange) to STA 176+50 (Grand Ave), and the Park Lawn to Gardiner Expressway westbound on-ramp					
Item	Quantity	(Rounded)	Unit	Unit Cost	Cost
<b>GRADING</b>					
Rubblize PCC - Concrete Pavement & Base	248,274	250,000	m2	\$ 4	\$ 1,000,000
Removal of Asphalt Pavement	248,274	250,000	m2	\$ 4	\$ 1,000,000
Superpave 19.0 (200 mm 3 Lifts)	119,172	119,000	t	\$ 81	\$ 9,639,000
Superpave 19.0 (180 mm) - Outside Shoulder	11,534	12,000	t	\$ 81	\$ 972,000
SMA 40 (Stone Mastic Asphalt)	23,834	24,000	t	\$ 127	\$ 3,048,000
Granular A (225 mm)	134,068	134,000	t	\$ 18	\$ 2,412,000
250 mm Pipe Sewer	7	10	m	\$ 140	\$ 1,400
300 mm Pipe Sewer	1,576	1,580	m	\$ 150	\$ 237,000
375 mm Pipe Sewer	1,044	1,040	m	\$ 155	\$ 161,200
450 mm Pipe Sewer	670	670	m	\$ 160	\$ 107,200
525 mm Pipe Sewer	440	440	m	\$ 200	\$ 88,000
600 mm Pipe Sewer	502	500	m	\$ 250	\$ 125,000
675 mm Pipe Sewer	448	450	m	\$ 320	\$ 144,000
750 mm Pipe Sewer	645	650	m	\$ 350	\$ 227,500
825 mm Pipe Sewer	314	310	m	\$ 425	\$ 131,750
900 mm Pipe Sewer	178	180	m	\$ 525	\$ 94,500
1050 mm Pipe Sewer	183	180	m	\$ 650	\$ 117,000
1200 mm Pipe Sewer	670	670	m	\$ 760	\$ 509,200
1950 mm Pipe Sewer	507	510	m	\$ 1,000	\$ 510,000
Removal of <b>Pipes</b> and Culverts	7,183	7,180	m	\$ 100	\$ 718,000
Removal of Maintenance Holes, <b>Catch Basins</b> , Ditch Inlets and Valve Chambers	49	50	ea	\$ 1,000	\$ 50,000
600 mm x 600 mm Manholes, <b>Catch Basins</b> , and Ditch Inlets	49	50	ea	\$ 2,000	\$ 100,000
Tall Wall Barrier (precast)	3,750	3,800	m	\$ 275	\$ 1,045,000
Pavement Marking, Temporary, Paint - Fluorescent Orange	62,300	62,000	m	\$ 2	\$ 124,000
Pavement Marking, Durable	62,300	62,000	m	\$ 8	\$ 496,000
Illumination (High Mast Poles)	12	12	ea	\$ 250,000	\$ 3,000,000
Movable Barrier Shift (HiCo Rate - Toronto)	1	1	LS	\$ 443,000	\$ 443,000
Traffic Control Signing (HiCo Rate - Toronto)	1	1	LS	\$ 620,000	\$ 620,000
					\$ 27,120,750
<i>Approximate Highway Costs</i>					\$ 27,120,750
<i>MINOR GRADING</i>	20%				\$ 5,424,150
<i>Sub-Total</i>					\$ 32,544,900

3213010 Strategic Plan for the Rehabilitation of the Gardiner Expressway - City of Toronto					
Cost Estimates for <b>Contract G4</b> (Pavement Resurfacing, Drainage, Roadside Safety and Traffic Staging)					
STA 198+00 (Humber River) to STA 226+00 (Dowling Avenue)					
Item	Quantity	(Rounded)	Unit	Unit Cost	Cost
<b>GRADING</b>					
Removal of Asphalt Pavement (90 mm) (mainline)	66,416	70,000	m2	\$ 4	\$ 280,000
Superpave 19.0 (50 mm)	7,970	8,000	t	\$ 81	\$ 648,000
SMA (Stone Mastic Asphalt) (40 mm)	6,376	6,000	t	\$ 127.00	\$ 762,000
200 mm Pipe Sewer	40	40	m	\$ 140	\$ 5,600
300 mm Pipe Sewer	265	300	m	\$ 180	\$ 54,000
375 mm Pipe Sewer	390	400	m	\$ 155	\$ 62,000
450 mm Pipe Sewer	220	200	m	\$ 160	\$ 32,000
525 mm Pipe Sewer	157	200	m	\$ 200	\$ 40,000
600 mm Pipe Sewer	185	200	m	\$ 250	\$ 50,000
675 mm Pipe Sewer	313	300	m	\$ 320	\$ 96,000
750 mm Pipe Sewer	210	200	m	\$ 350	\$ 70,000
900 mm Pipe Sewer	140	100	m	\$ 525	\$ 52,500
Removal of <b>Pipes</b> and Culverts	1,920	2,000	m	\$ 100	\$ 200,000
Removal of Maintenance Holes, <b>Catch Basins</b> , Ditch Inlets and Valve Chambers	34	30	ea	\$ 1,000	\$ 30,000
600 mm x 600 mm Manholes, <b>Catch Basins</b> , and Ditch Inlets	34	30	ea	\$ 2,000	\$ 60,000
Remove SBGR (without channel) (outside Shoulder)	3,768	3,770	m	\$ 12	\$ 45,240
Replace SBGR (without channel) (outside Shoulder)	3,768	3,770	m	\$ 73	\$ 275,210
Pavement Marking, Temporary, Paint - Fluorescent Orange	22,400	22,000	m	\$ 2	\$ 44,000
Pavement Marking, Durable	22,400	22,000	m	\$ 8	\$ 176,000
Movable Barrier Shift (HiCo Rate -Toronto)	1	1	LS	\$ 443,000	\$ 443,000
Traffic Control Signing (HiCo Rate - Toronto)	1	1	LS	\$ 620,000	\$ 620,000
					\$ 4,045,550
					\$ 809,110
<i>Approximate Highway Costs</i>					\$ 4,045,550
	<i>MINOR GRADING</i>	<i>20%</i>			\$ 809,110
					<b>\$ 4,854,660</b>
<i>Sub-Total</i>					<b>\$ 4,854,660</b>

<i>3213010 Strategic Plan for the Rehabilitation of the Gardiner Expressway - City of Toronto</i>					
<i>Cost Estimates for <b>Contract G5</b> (Pavement Resurfacing, Drainage, Roadside Safety and Traffic Staging)</i>					
<i>EB from STA 172+50 (Wesley St) to STA 198+00 (Humber River) and WB from STA 176+50 (Grand Avenue) to STA 198+00 (Humber River)</i>					
<b>Item</b>	<b>Quantity</b>	<b>(Rounded)</b>	<b>Unit</b>	<b>Unit Cost</b>	<b>Cost</b>
<b>GRADING</b>					
Rubblize PCC - Concrete Pavement & Base	83,136	80,000	m2	\$ 4	\$ 320,000
Removal of Asphalt Pavement	83,136	80,000	m2	\$ 4	\$ 320,000
Superpave 19.0 (200 mm 3 Lifts)	39,905	40,000	t	\$ 81	\$ 3,240,000
SMA 40 (Stone Mastic Asphalt)	7,981	8,000	t	\$ 127	\$ 1,016,000
Granular A (225 mm)	44,893	45,000	t	\$ 18	\$ 810,000
250 mm Pipe Sewer	4	4	m	\$ 140	\$ 616
300 mm Pipe Sewer	1,051	1,100	m	\$ 150	\$ 165,000
375 mm Pipe Sewer	696	700	m	\$ 155	\$ 108,500
450 mm Pipe Sewer	446	400	m	\$ 160	\$ 64,000
525 mm Pipe Sewer	293	300	m	\$ 200	\$ 60,000
600 mm Pipe Sewer	335	300	m	\$ 250	\$ 75,000
675 mm Pipe Sewer	299	300	m	\$ 320	\$ 96,000
750 mm Pipe Sewer	430	400	m	\$ 350	\$ 140,000
825 mm Pipe Sewer	210	200	m	\$ 425	\$ 85,000
900 mm Pipe Sewer	118	100	m	\$ 525	\$ 52,500
1050 mm Pipe Sewer	122	100	m	\$ 650	\$ 65,000
1200 mm Pipe Sewer	446	400	m	\$ 760	\$ 304,000
1950 mm Pipe Sewer	338	300	m	\$ 1,000	\$ 300,000
Removal of <b>Pipes</b> and Culverts	4,789	5,000	m	\$ 100	\$ 500,000
Removal of Maintenance Holes, <b>Catch Basins</b> , Ditch Inlets and Valve Chambers	33	30	ea	\$ 1,000	\$ 30,000
600 mm x 600 mm Manholes, <b>Catch Basins</b> , and Ditch Inlets	33	30	ea	\$ 2,000	\$ 60,000
Tall Wall Barrier (precast)	3,750	3,800	m	\$ 275	\$ 1,045,000
Pavement Marking, Temporary, Paint - Fluorescent Orange	32,900	33,000	m	\$ 2	\$ 66,000
Pavement Marking, Durable	32,900	33,000	m	\$ 8	\$ 264,000
Movable Barrier Shift (HiCo Rate - Toronto)	1	1	LS	\$ 443,000	\$ 443,000
Traffic Control Signing (HiCo Rate - Toronto)	1	1	LS	\$ 620,000	\$ 620,000
<i>Approximate Highway Costs</i>					\$ 10,249,616
<i>MINOR GRADING</i>	<i>20%</i>				\$ 2,049,923
<i>Sub-Total</i>					<b>\$ 12,299,539</b>