

**Britannia Road Corridor Improvements Class EA  
Preliminary Quantities and Cost Estimate**

<b>ROAD NAME:</b> Britannia Road - Phase 1		<b>Imp. Type:</b>			
<b>From:</b> Tremaine Road		<b>To:</b> Regional Road 25			
Road Length (m): 2800m		ROW Width (m): 47			
Number of Lanes: 6		Lane Width (m): 3.5			
Flush Median Width (m): 0		Raised Median Width (m): 5			
<b>CROSS-SECTION FOR LEFT SIDE:</b>			<b>CROSS-SECTION FOR RIGHT SIDE:</b>		
Cross-Section (Rural/Urban): URBAN			Cross-Section (Rural/Urban): URBAN		
Paved Road Width (m): 12.3			Paved Road Width (m): 12.3		
Curb Boulevard 1			Curb Boulevard 1		
Sidewalk Width (m): 3.0			Sidewalk Width (m): 3.0		
Bike Path Width (m): 1.8			Bike Path Width (m): 1.8		
Street Lighting (Y/N): Y			Street Lighting (Y/N): Y		
No.	Item	Unit	Estimated Quantity	Unit Price	Total
<b>1 ROAD ITEMS</b>					
<b>A ROADWORKS &amp; DRAINAGE</b>					
1	Clearing and Grubbing	ha	11	\$ 10,000.00	\$ 112,000.00
2	Remove Ex. Asphalt (Full Depth)	m2	21,840	\$ 7.00	\$ 152,880.00
3	Removal of Pipe Culverts	m	1,000	\$ 25.00	\$ 25,000.00
4	Earth Excavation	m3	42,000	\$ 20.00	\$ 840,000.00
5	Earth Borrow	m3	20,000	\$ 10.00	\$ 200,000.00
6	Granular A (150 mm depth)	tonnes	31,500	\$ 25.00	\$ 787,500.00
7	Granular B (600 mm depth)	tonnes	126,000	\$ 20.00	\$ 2,520,000.00
8	Surface Course Asphalt (50 mm depth)	tonnes	10,500	\$ 100.00	\$ 1,050,000.00
9	Base Course Asphalt (100 mm depth)	tonnes	21,000	\$ 95.00	\$ 1,995,000.00
10	Concrete Curb and Gutter (All types)	m	10,640	\$ 60.00	\$ 638,400.00
11	Concrete Sidewalk	m2	16,800	\$ 65.00	\$ 1,092,000.00
12	300mm Dia. Rigid Pipe Sewers with Granular backfill	m	1,120	\$ 275.00	\$ 308,000.00
13	375-600mm Dia. Rigid Pipe Sewers with Granular backfill	m	560	\$ 400.00	\$ 224,000.00
14	675-900mm Dia. Rigid Pipe Sewers with Granular backfill	m	560	\$ 500.00	\$ 280,000.00
15	975-1200mm Dia. Rigid Pipe Sewers with Granular backfill	m	560	\$ 550.00	\$ 308,000.00
16	150 mm Subdrain	m	5,600	\$ 30.00	\$ 168,000.00
17	Catchbasins	ea.	112	\$ 2,200.00	\$ 246,400.00
18	Storm Maintenance Holes/MHCBs	ea.	28	\$ 5,500.00	\$ 154,000.00
19	300mm CSP Culvert	m	200	\$ 135.00	\$ 27,000.00
20	375-600mm CSP Culvert	m	100	\$ 215.00	\$ 21,500.00
21	Precast Concrete Box Culvert	m	350	\$ 2,500.00	\$ 875,000.00
22	Oil/Grit Separator	ea.	2	\$ 75,000.00	\$ 150,000.00
23	Stormwater Outfall Structure (Headwall)	ea.	2	\$ 20,000.00	\$ 40,000.00
<b>Subtotal Roadworks &amp; Drainage</b>					<b>\$ 12,214,680.00</b>
<b>B LANDSCAPING</b>					
24	Deciduous Trees (30 m spacing)	ea.	186	\$ 550.00	\$ 102,564.00
25	Sod c/w 100 mm Topsoil	m2	14,000	\$ 7.50	\$ 105,000.00
26	Seeding c/w 100 mm Topsoil	m2	16,800	\$ 6.00	\$ 100,800.00
<b>Subtotal Landscaping/Mitigation</b>					<b>\$ 308,364.00</b>
<b>C ELECTRICAL</b>					
27	Traffic Signalization (per intersection)	ea.	2	\$ 250,000.00	\$ 500,000.00
28	Modifications to Ex. Traffic Signalization (per intersection)	ea.	0	\$ 125,000.00	\$ -
29	Street Lighting (per pole)	ea.	112	\$ 5,500.00	\$ 616,000.00
<b>Subtotal Electrical</b>					<b>\$ 1,116,000.00</b>
<b>D STRUCTURAL</b>					
30	Construct Grade Separation	ea.	1	\$ 11,200,000.00	\$ 11,200,000.00
31	Temporary Road Detour (including signal relocation)	ea.	1	\$ 1,500,000.00	\$ 1,500,000.00
<b>Subtotal Structural</b>					<b>\$ 12,700,000.00</b>
<b>E UTILITY RELOCATIONS</b>					
32	Relocate Hydro Poles	ea.	56	\$ 5,000.00	\$ 280,000.00
<b>Subtotal Electrical</b>					<b>\$ 280,000.00</b>
<b>SUB TOTAL ALL ITEMS</b>					<b>\$ 26,619,044.00</b>
25% Overhead and Contingency					\$ 6,654,761.00
<b>SUBTOTAL</b>					<b>\$ 33,273,805.00</b>
15% Engineering					\$ 4,991,070.75
<b>GRAND TOTAL FOR CONSTRUCTION</b>					<b>\$ 38,264,875.75</b>
<b>F PROPERTY</b>					
33	Agricultural	ha	6.1	\$ 350,000.00	\$ 2,135,000.00
34	Residential	ha	0	\$ 2,000,000.00	\$ -
35	Commercial	ha	1	\$ 2,000,000.00	\$ 2,000,000.00
36	Institutional	ha	0	\$ 2,000,000.00	\$ -
<b>Subtotal Property</b>					<b>\$ 4,135,000.00</b>
<b>TOTAL ESTIMATED PROJECT COST (excl. GST)</b>					<b>\$ 42,399,875.75</b>

**Britannia Road Corridor Improvements Class EA  
Preliminary Quantities and Cost Estimate**

<b>ROAD NAME:</b> Britannia Road - Phase 2		<b>Imp. Type:</b>			
<b>From:</b> Regional Road 25		<b>To:</b> James Snow Parkway			
Road Length (m): 3450m		ROW Width (m): 47			
Number of Lanes: 4		Lane Width (m): 3.5			
Flush Median Width (m): 0		Raised Median Width (m): 5			
<b>CROSS-SECTION FOR LEFT SIDE:</b>			<b>CROSS-SECTION FOR RIGHT SIDE:</b>		
Cross-Section (Rural/Urban): URBAN			Cross-Section (Rural/Urban): URBAN		
Paved Road Width (m): 8.8			Paved Road Width (m): 8.8		
Curb Boulevard 1			Curb Boulevard 1		
Sidewalk Width (m): 3.0			Sidewalk Width (m): 3.0		
Bike Path Width (m): 1.8			Bike Path Width (m): 1.8		
Street Lighting (Y/N): Y			Street Lighting (Y/N): Y		
No.	Item	Unit	Estimated Quantity	Unit Price	Total
<b>1 ROAD ITEMS</b>					
<b>A ROADWORKS &amp; DRAINAGE</b>					
1	Clearing and Grubbing	ha	14	\$ 10,000.00	\$ 138,000.00
2	Remove Ex. Asphalt (Full Depth)	m2	26,910	\$ 7.00	\$ 188,370.00
3	Removal of Pipe Culverts	m	200	\$ 25.00	\$ 5,000.00
4	Earth Excavation	m3	39,675	\$ 20.00	\$ 793,500.00
5	Earth Borrow	m3	15,000	\$ 10.00	\$ 150,000.00
6	Granular A (150 mm depth)	tonnes	29,756	\$ 25.00	\$ 743,906.25
7	Granular B (600 mm depth)	tonnes	119,025	\$ 20.00	\$ 2,380,500.00
8	Surface Course Asphalt (50 mm depth)	tonnes	9,919	\$ 100.00	\$ 991,875.00
9	Base Course Asphalt (100 mm depth)	tonnes	19,838	\$ 95.00	\$ 1,884,562.50
10	Concrete Curb and Gutter (All types)	m	13,110	\$ 60.00	\$ 786,600.00
11	Concrete Sidewalk	m2	20,700	\$ 65.00	\$ 1,345,500.00
12	300mm Dia. Rigid Pipe Sewers with Granular backfill	m	1,380	\$ 275.00	\$ 379,500.00
13	375-600mm Dia. Rigid Pipe Sewers with Granular backfill	m	690	\$ 400.00	\$ 276,000.00
14	675-900mm Dia. Rigid Pipe Sewers with Granular backfill	m	690	\$ 500.00	\$ 345,000.00
15	975-1200mm Dia. Rigid Pipe Sewers with Granular backfill	m	690	\$ 550.00	\$ 379,500.00
16	150 mm Subdrain	m	6,900	\$ 30.00	\$ 207,000.00
17	Catchbasins	ea.	138	\$ 2,200.00	\$ 303,600.00
18	Storm Maintenance Holes/MHCBS	ea.	35	\$ 5,500.00	\$ 189,750.00
19	300mm CSP Culvert	m	200	\$ 135.00	\$ 27,000.00
20	375-600mm CSP Culvert	m	100	\$ 215.00	\$ 21,500.00
21	Precast Concrete Box Culvert	m	350	\$ 2,500.00	\$ 875,000.00
22	Oil/Grit Separator	ea.	3	\$ 75,000.00	\$ 225,000.00
23	Stormwater Outfall Structure (Headwall)	ea.	3	\$ 20,000.00	\$ 60,000.00
	<b>Subtotal Roadworks &amp; Drainage</b>				<b>\$ 12,696,663.75</b>
<b>B LANDSCAPING</b>					
24	Deciduous Trees (30 m spacing)	ea.	230	\$ 550.00	\$ 126,373.50
25	Sod c/w 100 mm Topsoil	m2	17,250	\$ 7.50	\$ 129,375.00
26	Seeding c/w 100 mm Topsoil	m2	20,700	\$ 6.00	\$ 124,200.00
	<b>Subtotal Landscaping/Mitigation</b>				<b>\$ 379,948.50</b>
<b>C ELECTRICAL</b>					
27	Traffic Signalization (per intersection)	ea.	3	\$ 250,000.00	\$ 750,000.00
28	Modifications to Ex. Traffic Signalization (per intersection)	ea.	1	\$ 125,000.00	\$ 125,000.00
29	Street Lighting (per pole)	ea.	138	\$ 5,500.00	\$ 759,000.00
	<b>Subtotal Electrical</b>				<b>\$ 1,634,000.00</b>
<b>D STRUCTURAL</b>					
30	Construct New Bridge	ea.	1	\$ 8,500,000.00	\$ 8,500,000.00
31	Approach Road Retaining Walls	m2	1600	\$ 1,500.00	\$ 2,400,000.00
	<b>Subtotal Electrical</b>				<b>\$ 10,900,000.00</b>
<b>E UTILITY RELOCATIONS</b>					
32	Relocate Hydro Poles	ea.	69	\$ 5,000.00	\$ 345,000.00
	<b>Subtotal Electrical</b>				<b>\$ 345,000.00</b>
<b>SUB TOTAL ALL ITEMS</b>					<b>\$ 25,955,612.25</b>
25% Overhead and Contingency					\$ 6,488,903.06
<b>SUBTOTAL</b>					<b>\$ 32,444,515.31</b>
15% Engineering					\$ 4,866,677.30
<b>GRAND TOTAL FOR CONSTRUCTION</b>					<b>\$ 37,311,192.61</b>
<b>F PROPERTY</b>					
33	Agricultural	ha	8.7	\$ 350,000.00	\$ 3,045,000.00
32	Residential	ha	0.7	\$ 2,000,000.00	\$ 1,400,000.00
33	Commercial	ha	0	\$ 2,000,000.00	\$ -
34	Institutional	ha	0.1	\$ 2,000,000.00	\$ 200,000.00
	<b>Subtotal Property</b>				<b>\$ 4,645,000.00</b>
<b>TOTAL ESTIMATED PROJECT COST (excl. GST)</b>					<b>\$ 41,956,192.61</b>

**Britannia Road Corridor Improvements Class EA  
Preliminary Quantities and Cost Estimate**

<b>ROAD NAME:</b> Britannia Road - Phase 3		<b>Imp. Type:</b>			
<b>From:</b> James Snow Parkway		<b>To:</b> Trafalgar Road			
Road Length (m): 3500m		ROW Width (m): 47			
Number of Lanes: 4		Lane Width (m): 3.5			
Flush Median Width (m): 0		Raised Median Width (m): 5			
<b>CROSS-SECTION FOR LEFT SIDE:</b>			<b>CROSS-SECTION FOR RIGHT SIDE:</b>		
Cross-Section (Rural/Urban): URBAN			Cross-Section (Rural/Urban): URBAN		
Paved Road Width (m): 8.8			Paved Road Width (m): 8.8		
Curb Boulevard 1			Curb Boulevard 1		
Sidewalk Width (m): 3.0			Sidewalk Width (m): 3.0		
Bike Path Width (m): 1.8			Bike Path Width (m): 1.8		
Street Lighting (Y/N): Y			Street Lighting (Y/N): Y		
No.	Item	Unit	Estimated Quantity	Unit Price	Total
<b>1 ROAD ITEMS</b>					
<b>A ROADWORKS &amp; DRAINAGE</b>					
1	Clearing and Grubbing	ha	14	\$ 10,000.00	\$ 140,000.00
2	Remove Ex. Asphalt (Full Depth)	m2	27,300	\$ 7.00	\$ 191,100.00
3	Removal of Pipe Culverts	m	200	\$ 25.00	\$ 5,000.00
4	Earth Excavation	m3	40,250	\$ 20.00	\$ 805,000.00
5	Earth Borrow	m3	20,000	\$ 10.00	\$ 200,000.00
6	Granular A (150 mm depth)	tonnes	30,188	\$ 25.00	\$ 754,687.50
7	Granular B (600 mm depth)	tonnes	120,750	\$ 20.00	\$ 2,415,000.00
8	Surface Course Asphalt (50 mm depth)	tonnes	10,063	\$ 100.00	\$ 1,006,250.00
9	Base Course Asphalt (100 mm depth)	tonnes	20,125	\$ 95.00	\$ 1,911,875.00
10	Concrete Curb and Gutter (All types)	m	13,300	\$ 60.00	\$ 798,000.00
11	Concrete Sidewalk	m2	21,000	\$ 65.00	\$ 1,365,000.00
12	300mm Dia. Rigid Pipe Sewers with Granular backfill	m	1,400	\$ 275.00	\$ 385,000.00
13	375-600mm Dia. Rigid Pipe Sewers with Granular backfill	m	700	\$ 400.00	\$ 280,000.00
14	675-900mm Dia. Rigid Pipe Sewers with Granular backfill	m	700	\$ 500.00	\$ 350,000.00
15	975-1200mm Dia. Rigid Pipe Sewers with Granular backfill	m	700	\$ 550.00	\$ 385,000.00
16	150 mm Subdrain	m	7,000	\$ 30.00	\$ 210,000.00
17	Catchbasins	ea.	140	\$ 2,200.00	\$ 308,000.00
18	Storm Maintenance Holes/MHCBS	ea.	35	\$ 5,500.00	\$ 192,500.00
19	300mm CSP Culvert	m	200	\$ 135.00	\$ 27,000.00
20	375-600mm CSP Culvert	m	100	\$ 215.00	\$ 21,500.00
21	Precast Concrete Box Culvert	m	350	\$ 2,500.00	\$ 875,000.00
22	Oil/Grit Separator	ea.	3	\$ 75,000.00	\$ 225,000.00
23	Stormwater Outfall Structure (Headwall)	ea.	3	\$ 20,000.00	\$ 60,000.00
	<b>Subtotal Roadworks &amp; Drainage</b>				<b>\$ 12,910,912.50</b>
<b>B LANDSCAPING</b>					
24	Deciduous Trees (30 m spacing)	ea.	233	\$ 550.00	\$ 128,205.00
25	Sod c/w 100 mm Topsoil	m2	17,500	\$ 7.50	\$ 131,250.00
26	Seeding c/w 100 mm Topsoil	m2	21,000	\$ 6.00	\$ 126,000.00
	<b>Subtotal Landscaping/Mitigation</b>				<b>\$ 385,455.00</b>
<b>C ELECTRICAL</b>					
27	Traffic Signalization (per intersection)	ea.	3	\$ 250,000.00	\$ 750,000.00
28	Modifications to Ex. Traffic Signalization (per intersection)	ea.	0	\$ 125,000.00	\$ -
29	Street Lighting (per pole)	ea.	140	\$ 5,500.00	\$ 770,000.00
	<b>Subtotal Electrical</b>				<b>\$ 1,520,000.00</b>
<b>D STRUCTURAL</b>					
30	Construct New Bridge	ea.	1	\$ 8,500,000.00	\$ 8,500,000.00
31	Approach Road Retaining Walls	m2	900	\$ 1,500.00	\$ 1,350,000.00
	<b>Subtotal Electrical</b>				<b>\$ 9,850,000.00</b>
<b>E UTILITY RELOCATIONS</b>					
32	Relocate Hydro Poles	ea.	70	\$ 5,000.00	\$ 350,000.00
	<b>Subtotal Electrical</b>				<b>\$ 350,000.00</b>
<b>SUB TOTAL ALL ITEMS</b>					<b>\$ 25,016,367.50</b>
25% Overhead and Contingency					\$ 6,254,091.88
<b>SUBTOTAL</b>					<b>\$ 31,270,459.38</b>
15% Engineering					\$ 4,690,568.91
<b>GRAND TOTAL FOR CONSTRUCTION</b>					<b>\$ 35,961,028.28</b>
<b>F PROPERTY</b>					
33	Agricultural	ha	3.4	\$ 350,000.00	\$ 1,190,000.00
32	Residential	ha	0.3	\$ 2,000,000.00	\$ 600,000.00
33	Commercial	ha	0.7	\$ 2,000,000.00	\$ 1,400,000.00
34	Institutional	ha	0.4	\$ 2,000,000.00	\$ 800,000.00
	<b>Subtotal Property</b>				<b>\$ 3,990,000.00</b>
<b>TOTAL ESTIMATED PROJECT COST (excl. GST)</b>					<b>\$ 39,951,028.28</b>

**Britannia Road Corridor Improvements Class EA  
Preliminary Quantities and Cost Estimate**

<b>ROAD NAME:</b> Britannia Road - Phase 4		<b>Imp. Type:</b>			
<b>From:</b> Trafalgar Road		<b>To:</b> Hwy #407			
Road Length (m): 2200m		ROW Width (m): 47			
Number of Lanes: 4		Lane Width (m): 3.5			
Flush Median Width (m): 0		Raised Median Width (m): 5			
<b>CROSS-SECTION FOR LEFT SIDE:</b>			<b>CROSS-SECTION FOR RIGHT SIDE:</b>		
Cross-Section (Rural/Urban): URBAN			Cross-Section (Rural/Urban): URBAN		
Paved Road Width (m): 8.8			Paved Road Width (m): 8.8		
Curb Boulevard 1			Curb Boulevard 1		
Sidewalk Width (m): 3.0			Sidewalk Width (m): 3.0		
Bike Path Width (m): 1.8			Bike Path Width (m): 1.8		
Street Lighting (Y/N): Y			Street Lighting (Y/N): Y		
No.	Item	Unit	Estimated Quantity	Unit Price	Total
<b>1 ROAD ITEMS</b>					
<b>A ROADWORKS &amp; DRAINAGE</b>					
1	Clearing and Grubbing	ha	9	\$ 10,000.00	\$ 88,000.00
2	Remove Ex. Asphalt (Full Depth)	m2	17,160	\$ 7.00	\$ 120,120.00
3	Removal of Pipe Culverts	m	200	\$ 25.00	\$ 5,000.00
4	Earth Excavation	m3	25,300	\$ 20.00	\$ 506,000.00
5	Earth Borrow	m3	15,000	\$ 10.00	\$ 150,000.00
6	Granular A (150 mm depth)	tonnes	18,975	\$ 25.00	\$ 474,375.00
7	Granular B (600 mm depth)	tonnes	75,900	\$ 20.00	\$ 1,518,000.00
8	Surface Course Asphalt (50 mm depth)	tonnes	6,325	\$ 100.00	\$ 632,500.00
9	Base Course Asphalt (100 mm depth)	tonnes	12,650	\$ 95.00	\$ 1,201,750.00
10	Concrete Curb and Gutter (All types)	m	8,360	\$ 60.00	\$ 501,600.00
11	Concrete Sidewalk	m2	13,200	\$ 65.00	\$ 858,000.00
12	300mm Dia. Rigid Pipe Sewers with Granular backfill	m	880	\$ 275.00	\$ 242,000.00
13	375-600mm Dia. Rigid Pipe Sewers with Granular backfill	m	440	\$ 400.00	\$ 176,000.00
14	675-900mm Dia. Rigid Pipe Sewers with Granular backfill	m	440	\$ 500.00	\$ 220,000.00
15	975-1200mm Dia. Rigid Pipe Sewers with Granular backfill	m	440	\$ 550.00	\$ 242,000.00
16	150 mm Subdrain	m	4,400	\$ 30.00	\$ 132,000.00
17	Catchbasins	ea.	88	\$ 2,200.00	\$ 193,600.00
18	Storm Maintenance Holes/MHCBs	ea.	22	\$ 5,500.00	\$ 121,000.00
19	300mm CSP Culvert	m	200	\$ 135.00	\$ 27,000.00
20	375-600mm CSP Culvert	m	100	\$ 215.00	\$ 21,500.00
21	Precast Concrete Box Culvert	m	350	\$ 2,500.00	\$ 875,000.00
22	Oil/Grit Separator	ea.	1	\$ 75,000.00	\$ 75,000.00
23	Stormwater Outfall Structure (Headwall)	ea.	1	\$ 20,000.00	\$ 20,000.00
	<b>Subtotal Roadworks &amp; Drainage</b>				<b>\$ 8,400,445.00</b>
<b>B LANDSCAPING</b>					
24	Deciduous Trees (30 m spacing)	ea.	147	\$ 550.00	\$ 80,586.00
25	Sod c/w 100 mm Topsoil	m2	11,000	\$ 7.50	\$ 82,500.00
26	Seeding c/w 100 mm Topsoil	m2	13,200	\$ 6.00	\$ 79,200.00
	<b>Subtotal Landscaping/Mitigation</b>				<b>\$ 242,286.00</b>
<b>C ELECTRICAL</b>					
27	Traffic Signalization (per intersection)	ea.	1	\$ 250,000.00	\$ 250,000.00
28	Modifications to Ex. Traffic Signalization (per intersection)	ea.	0	\$ 125,000.00	\$ -
29	Street Lighting (per pole)	ea.	88	\$ 5,500.00	\$ 484,000.00
	<b>Subtotal Electrical</b>				<b>\$ 734,000.00</b>
<b>D STRUCTURAL</b>					
30	Construct New Bridge	ea.	0	\$ -	\$ -
	<b>Subtotal Electrical</b>				<b>\$ -</b>
<b>E UTILITY RELOCATIONS</b>					
31	Relocate Hydro Poles	ea.	44	\$ 5,000.00	\$ 220,000.00
	<b>Subtotal Electrical</b>				<b>\$ 220,000.00</b>
<b>SUB TOTAL ALL ITEMS</b>					<b>\$ 9,596,731.00</b>
25% Overhead and Contingency					\$ 2,399,182.75
<b>SUBTOTAL</b>					<b>\$ 11,995,913.75</b>
15% Engineering					\$ 1,799,387.06
<b>GRAND TOTAL FOR CONSTRUCTION</b>					<b>\$ 13,795,300.81</b>
<b>F PROPERTY</b>					
32	Agricultural	ha	2.8	\$ 350,000.00	\$ 980,000.00
32	Residential	ha	0.1	\$ 2,000,000.00	\$ 200,000.00
33	Commercial	ha	0	\$ 2,000,000.00	\$ -
34	Institutional	ha	0	\$ 2,000,000.00	\$ -
	<b>Subtotal Property</b>				<b>\$ 1,180,000.00</b>
<b>TOTAL ESTIMATED PROJECT COST (excl. GST)</b>					<b>\$ 14,975,300.81</b>

**Britannia Road Corridor Improvements Class EA  
Preliminary Quantities and Cost Estimate**

<b>ROAD NAME:</b> Britannia Road - Phase 5	Imp. Type:
<b>From:</b> Regional Road 25	<b>To:</b> Hwy #407
Road Length (m): 9000m	ROW Width (m): 47
Number of Lanes: 6	Lane Width (m): 3.5
Flush Median Width (m): 0	Raised Median Width (m): 5

<b>CROSS-SECTION FOR LEFT SIDE:</b> Cross-Section (Rural/Urban): URBAN Paved Road Width (m): 12.3 Curb Boulevard 1 Sidewalk Width (m): 3.0 Bike Path Width (m): 1.8 Street Lighting (Y/N): Y	<b>CROSS-SECTION FOR RIGHT SIDE:</b> Cross-Section (Rural/Urban): URBAN Paved Road Width (m): 12.3 Curb Boulevard 1 Sidewalk Width (m): 3.0 Bike Path Width (m): 1.8 Street Lighting (Y/N): Y
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No.	Item	Unit	Estimated Quantity	Unit Price	Total
<b>1 ROAD ITEMS</b>					
<b>A ROADWORKS &amp; DRAINAGE</b>					
1	Clearing and Grubbing	ha	36	\$ 10,000.00	\$ 360,000.00
2	Remove Ex. Asphalt (Full Depth)	m2	140,400	\$ 7.00	\$ 982,800.00
3	Removal of Pipe Culverts	m	1,300	\$ 25.00	\$ 32,500.00
4	Earth Excavation	m3	33,750	\$ 20.00	\$ 675,000.00
5	Earth Borrow	m3	1,000	\$ 10.00	\$ 10,000.00
6	Granular A (150 mm depth)	tonnes	25,313	\$ 25.00	\$ 632,812.50
7	Granular B (600 mm depth)	tonnes	101,250	\$ 20.00	\$ 2,025,000.00
8	Surface Course Asphalt (50 mm depth)	tonnes	27,675	\$ 100.00	\$ 2,767,500.00
9	Base Course Asphalt (100 mm depth)	tonnes	55,350	\$ 95.00	\$ 5,258,250.00
10	Concrete Curb and Gutter (All types)	m	36,000	\$ 60.00	\$ 2,160,000.00
11	Concrete Sidewalk	m2	54,000	\$ 65.00	\$ 3,510,000.00
12	300mm Dia. Rigid Pipe Sewers with Granular backfill	m	1,650	\$ 275.00	\$ 453,750.00
13	375-600mm Dia. Rigid Pipe Sewers with Granular backfill	m	1,800	\$ 400.00	\$ 720,000.00
14	675-900mm Dia. Rigid Pipe Sewers with Granular backfill	m	1,800	\$ 500.00	\$ 900,000.00
15	975-1200mm Dia. Rigid Pipe Sewers with Granular backfill	m	1,800	\$ 550.00	\$ 990,000.00
16	150 mm Subdrain	m	18,000	\$ 30.00	\$ 540,000.00
17	Catchbasins	ea.	360	\$ 2,200.00	\$ 792,000.00
18	Storm Maintenance Holes/MHCBs	ea.	90	\$ 5,500.00	\$ 495,000.00
19	300mm CSP Culvert	m	1,000	\$ 135.00	\$ 135,000.00
20	375-600mm CSP Culvert	m	300	\$ 215.00	\$ 64,500.00
21	Precast Concrete Box Culvert	m	131	\$ 2,500.00	\$ 328,125.00
22	Oil/Grit Separator	ea.	7	\$ 75,000.00	\$ 525,000.00
23	Stormwater Outfall Structure (Headwall)	ea.	7	\$ 20,000.00	\$ 140,000.00
	<b>Subtotal Roadworks &amp; Drainage</b>				<b>\$ 24,497,237.50</b>
<b>B LANDSCAPING</b>					
24	Deciduous Trees (30 m spacing)	ea.	599	\$ 550.00	\$ 329,670.00
25	Sod c/w 100 mm Topsoil	m2	45,000	\$ 7.50	\$ 337,500.00
26	Seeding c/w 100 mm Topsoil	m2	54,000	\$ 6.00	\$ 324,000.00
	<b>Subtotal Landscaping/Mitigation</b>				<b>\$ 991,170.00</b>
<b>C ELECTRICAL</b>					
27	Traffic Signalization (per intersection)	ea.	7	\$ 250,000.00	\$ 1,750,000.00
28	Modifications to Ex. Traffic Signalization (per intersection)	ea.	0	\$ 125,000.00	\$ -
29	Street Lighting (per pole)	ea.	360	\$ 5,500.00	\$ 1,980,000.00
	<b>Subtotal Electrical</b>				<b>\$ 3,730,000.00</b>
<b>D STRUCTURAL</b>					
30	Modifications to Bridges	ea.	2	\$ 2,000,000.00	\$ 4,000,000.00
31	Approach Road Retaining Walls	ea.	2500	\$ 1,500.00	\$ 3,750,000.00
	<b>Subtotal Electrical</b>				<b>\$ 7,750,000.00</b>
<b>E UTILITY RELOCATIONS</b>					
32	Relocate Hydro Poles	ea.	180	\$ 5,000.00	\$ 900,000.00
	<b>Subtotal Electrical</b>				<b>\$ 900,000.00</b>
<b>SUB TOTAL ALL ITEMS</b>					<b>\$ 37,868,407.50</b>
25% Overhead and Contingency					\$ 9,467,101.88
<b>SUBTOTAL</b>					<b>\$ 47,335,509.38</b>
15% Engineering					\$ 7,100,326.41
<b>GRAND TOTAL FOR CONSTRUCTION</b>					<b>\$ 54,435,835.78</b>
<b>F PROPERTY</b>					
33	Agricultural	ha	0	\$ 350,000.00	\$ -
32	Residential	ha	0	\$ 2,000,000.00	\$ -
33	Commercial	ha	0	\$ 2,000,000.00	\$ -
34	Institutional	ha	0	\$ 2,000,000.00	\$ -
	<b>Subtotal Property</b>				<b>\$ -</b>
<b>TOTAL ESTIMATED PROJECT COST (excl. GST)</b>					<b>\$ 54,435,835.78</b>