

APPENDIX W – Preliminary Cost Estimate

The Regional Municipality of York

Individual Environmental Assessment for the Teston Road Area, Transportation Improvements from Highway 400 To Bathurst Street

Preliminary Cost Estimate

SUMMARY		
Phase 1	Keele Street to Dufferin Street	\$79,850,542.76
Phase 2	Dufferin Street to Bathurst Street	\$40,497,707.06
TOTAL		\$120,348,249.81

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Preliminary Cost Estimate

Phase 1 - Keele Street to Dufferin Street

Item	Description	Est. Qty.	Unit	Unit Price	Total Price
1	Traffic Management, Site Office and Bonds	1	L.S.	\$650,000	\$650,000
2	Clearing, Grubbing & Tree Removal	11700	m ³	\$50	\$585,000
3	Stripping	11700	m ³	\$15	\$175,500
4	Full Depth Asphalt Pavement Removal	13700	m ²	\$30	\$411,000
5	Earth Excavation and Grading	41000	m ³	\$64	\$2,624,000
6	Earth Borrow	192600	m ³	\$15	\$2,889,000
7	Roadway Granular 'A' Base Course	20724	tonne	\$75	\$1,554,300
8	Roadway Granular 'B' Base Course	51810	tonne	\$74	\$3,833,940
9	Superpave 12.5 (50mm) FC1 Cat. D (PG 64-28)-Roadway	5235	tonne	\$260	\$1,361,100
10	Superpave 19.0 (50mm) Cat. D (PG 64-28)-Roadway	5115	tonne	\$187	\$956,505
11	Superpave 25.0 (80mm) Cat. D (PG 64-28)-Roadway	8310	tonne	\$187	\$1,553,970
12	Tack Coat	79150	m ²	\$1	\$79,150
13	Concrete Median	205	m ²	\$125	\$25,625
14	Concrete Sidewalk	765	m ²	\$150	\$114,750
15	Concrete Curb and Gutter	4500	m	\$185	\$832,500
16	150mm Dia. Subdrain	4500	m	\$64	\$288,000
17	Asphalt Multi Use Path	6640	m ²	\$120	\$796,800
18	Sediment Control Fences	4200	m	\$31	\$130,200
19	Topsoil	1755	m ³	\$20	\$35,100
20	Sod	11700	m ²	\$30	\$351,000
21	Street Tree Plantings	60	each	\$500	\$30,000
22	Natural Valley Restoration Plantings	1	L.S.	\$300,000	\$300,000
23	Storm Sewer Pipes and Catchbasin Leads	1	L.S.	\$6,925,917	\$6,925,917
24	Maintenance Holes, and Catchbasins	1	L.S.	\$890,760	\$890,760
25	SWM Ponds and Associated Works	1	L.S.	\$720,000	\$720,000
26	Underground SWMFs and LID Improvements	1	L.S.	\$1,248,000	\$1,248,000
27	Oil/Grit Separators	3	each	\$60,000	\$180,000

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Item	Description	Est. Qty.	Unit	Unit Price	Total Price
28	Non-structural Culverts	1	L.S.	\$479,985	\$479,985
29	Don River Tributary Channel Works	1	L.S.	\$300,000	\$300,000
30	40m Single Span Concrete Bridge (Per Structural Design Report)	1	L.S.	\$10,179,500	\$10,179,500
31	Pavement Markings and Symbols and Signs	1	L.S.	\$75,000	\$75,000
32	Miscellaneous Removals & New Construction Items (10%)	1	L.S.	\$100,000	\$100,000
33	Illumination	2.1	km	\$500,000	\$1,050,000
34	Traffic Signals - Temporary	2	each	\$150,000	\$300,000
35	Traffic Signals - Permanent	3	each	\$150,000	\$450,000
Subtotal - Construction Cost					\$42,026,601
Engineering, Contract Administration, and Project Management (25%)					\$10,506,650
Internal Region Costs (10%)					\$4,202,660
Allowance for Environmental Mitigation (10%)					\$4,202,660
Utilities (15%)					\$6,303,990
Miscellaneous (5%)					\$2,101,330
Contingency (25%)					\$10,506,650
Total Project Cost					\$79,850,543

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Preliminary Cost Estimate

Phase 1 - Dufferin Street to Bathurst Street

Item	Description	Est. Qty.	Unit	Unit Price	Total Price
1	Traffic Management, Site Office and Bonds	1	L.S.	\$325,000	\$325,000
2	Clearing, Grubbing & Tree Removal	5050	m ³	\$50	\$252,500
3	Stripping	5050	m ³	\$15	\$75,750
4	Partial Depth Asphalt Pavement Removal	32600	m ²	\$42	\$1,369,200
5	Earth Excavation and Grading	26000	m ³	\$64	\$1,664,000
6	Excess Soil Disposal	8000	m ³	\$120	\$960,000
7	Roadway Granular 'A' Base Course	7236	tonne	\$75	\$542,700
8	Roadway Granular 'B' Base Course	13266	tonne	\$74	\$981,684
9	Superpave 12.5 (50mm) FC1 Cat. D (PG 64-28)-Roadway	5415	tonne	\$260	\$1,407,900
10	Superpave 19.0 (50mm) Cat. D (PG 64-28)-Roadway	9495	tonne	\$187	\$1,775,565
11	Superpave 25.0 (80mm) Cat. D (PG 64-28)-Roadway	1745	tonne	\$187	\$326,315
12	Tack Coat	81800	m ²	\$1	\$81,800
13	Concrete Median	600	m ²	\$125	\$75,000
14	Concrete Sidewalk	8320	m ²	\$150	\$1,248,000
15	Concrete Curb and Gutter	4700	m	\$185	\$869,500
16	150mm Dia. Subdrain	4700	m	\$64	\$300,800
17	Asphalt Cycle Tracks	6880	m ²	\$120	\$825,600
18	Sediment Control Fences	4000	m	\$31	\$124,000
19	Topsoil	760	m ³	\$20	\$15,200
20	Sod	5050	m ²	\$30	\$151,500
21	Street Tree Plantings	60	each	\$500	\$30,000
22	Storm Sewer Pipes and Catchbasin Leads	1	L.S.	\$4,401,912	\$4,401,912
23	Maintenance Holes, and Catchbasins	1	L.S.	\$1,026,000	\$1,026,000
24	Underground SWMFs and LID Improvements	1	L.S.	\$1,204,800	\$1,204,800
25	Oil/Grit Separators	5	each	\$60,000	\$300,000
26	Non-structural Culverts	1	L.S.	\$439,000	\$439,000
27	Culvert Headwall Modifications	1	L.S.	\$250,000	\$250,000

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Item	Description	Est. Qty.	Unit	Unit Price	Total Price
28	Pavement Markings and Symbols and Signs	1	L.S.	\$75,000	\$75,000
29	Miscellaneous Removals & New Construction Items (10%)	1	L.S.	\$100,000	\$100,000
30	Illumination	2	km	\$500,000	\$1,000,000
31	Traffic Signals - Temporary	2	each	\$150,000	\$300,000
32	Traffic Signals - Permanent	3	each	\$150,000	\$450,000
Subtotal - Construction Cost					\$22,498,726
Engineering, Contract Administration, and Project Management (25%)					\$5,624,682
Internal Region Costs (10%)					\$2,249,873
Utilities (15%)					\$3,374,809
Miscellaneous (5%)					\$1,124,936
Contingency (25%)					\$5,624,682
Total Project Cost					\$40,497,707