
APPENDIX 12

DETAILED COST ESTIMATE

Road Project Construction Estimate Format

1. Estimates must be structured under the following components/categories as a subtotal to the overall project estimate.
2. Any additional "soft costs" where appropriate (contingencies) must be included for each component/category and shown as a subtotal.
3. Taxes should be excluded
4. All estimates should be received before the month of June

Component/Category	Description/Definition of Works
Design/Contract Administration	Includes all costs associated with the design and contract administration of the project. Design cost and contract administration should each be shown as separate subtotals.
Property Acquisition	Includes all costs associated with the purchase of property, including Realty and Legal Fees. Should be broken down into # of ha and cost per ha. Special purchases (i.e. gas station, entire properties) should be shown as separate subtotals.
Utility Relocation	Includes all costs associated with the relocation of all utilities. Major relocations (i.e. hydro tower, major gas mains) should be shown as separate subtotals. Also the relocation of sewers and/or watermains should be shown as separate subtotals.
Construction	Includes all costs to construct the project unless there is a specific component indicated on this sheet that covers a particular construction item. Allowance for tie-ins to existing side streets must be included in the estimate. Storm sewer construction cost (if applicable) should be shown as a separate subtotal.
Intersections	Allowance to construct additional turning lanes that did not already exist at the intersection. This is over and above the work required for tie-ins (see construction). If the side street is a municipal road, the cost for Regional portion and Municipal portion should be shown as separate subtotals
Streetlights	Includes all costs for installation of street lights. If streetlights are to be installed in a centre median, include the cost for the median in this component however the median cost should be shown as a subtotal.
Traffic Signals	Includes all costs to install new traffic signals including controller complete. If traffic signals already exist include cost for temporary signals to be installed if required during construction. Show temporary signal installation as a separate subtotal.
Culverts	Includes all costs for removal/reconstruction or rehabilitation of the existing culvert as well as the widening cost. Cost for traffic detours/temporary signals should be shown as a separate subtotal.
Bridges	Includes all costs for removal/reconstruction or rehabilitation of the existing bridge as well as the widening cost. Cost for traffic detours/temporary signals should be shown as a separate subtotal.
Noise Attenuation	Includes all costs to install new noise attenuation wall including cost to remove existing wall and/or fences. Removals should be shown as a separate subtotal.
Landscaping/Sidewalks	Includes all landscape costs over and above hydro seeding/sod which is included in the construction component. Would include items such as sidewalk, trees and shrubs, special features if known or anticipated etc. Each type and quantity should be shown as a separate subtotal.
Cash Flow	An approximate cash flow showing what percent of the total amount will be spend in each year.
Contingency Rule	Contingency allowance should be me made as follows: 25% for Pre E.A Estimate 20% for estimate during E.A stage 15% for estimate during detailed design stage Provide details if any other contingency amount is used

PRELIMINARY CONSTRUCTION ESTIMATE

ROAD Regional Highway 50
From: Mayfield Road **To:** Healey Road

Component/ Category	Item Description	Units	Unit Price	Quantity	Sub Total	Total
Storm Infrastructure	Rehabilitation of existing					
	Removal of existing					
	New infrastructure					
	Other (specify)					
	Sewer 450	m	\$ 660	184	\$121,714	
	Sewer 525	m	\$ 800	83	\$66,159	
	Sewer 750	m	\$ 1,115	116	\$129,619	
	Sewer 900	m	\$ 1,280	654	\$837,382	
	Sewer 1050	m	\$ 1,680	112	\$188,743	
	Sewer 1200	m	\$ 2,180	62	\$134,737	
	1200mm Diameter MH	ea	\$ 13,000	3	\$39,000	
	1500mm Diameter MH	ea	\$ 14,000	2	\$28,000	
	1800mm Diameter MH	ea	\$ 15,000	9	\$135,000	
	2400mm Diameter MH	ea	\$ 25,600	2	\$51,200	
	OGS	ea	\$ 75,000	2	\$150,000	
Bioswale Box	m	\$ 5,500	143	\$784,828		
Miscellaneous (15%)	L.S.	\$ 399,957	1	\$399,957		
Contingency (20%)	L.S.	\$ 613,268	1	\$613,268		
	Sub Total					\$3,679,610
Structures (Bridge, Major Culvert)	Rehabilitation of existing					
	Widening of existing					
	Removal of existing					
	New structure					
	Other (specify)					
	Concrete Box Culvert	m	3000	131	\$394,323	
	Precast BOX MH	ea	50000	3	\$150,000	
	Concrete Headwall	ea	40000	2	\$80,000	
Miscellaneous (15%)	L.S.	\$93,648	1	\$93,648		
Contingency (20%)	L.S.	\$143,594	1	\$143,594		
	Sub Total					\$861,570



**Public Works
Transportation**

PRELIMINARY CONSTRUCTION ESTIMATE

ROAD Regional Highway 50
 From: Mayfield Road To: Healey Road

Component/ Category	Item Description	Units	Unit Price	Quantity	Sub Total	Total
AT Infrastructure	MUP Cycle Other (specify)	m2	\$ 55	5913	\$325,226	
	Miscellaneous (15%)	L.S.	\$ 48,784	1	\$48,784	
	Contingency (20%)	L.S.	\$ 74,802	1	\$74,802	
	Sub Total					
Construction	Excavation/Earthworks	m3	\$ 39.00	1773	\$69,163	
	Top soil and sod	m2	\$ 22	4760	\$104,720	
	Removal of Existing Sidewalk	m2	\$ 20	2197	\$43,948	
	Removal of Existing Driveways	m2	\$ 15	4157	\$62,355	
	Asphalt Commercial Entrance	m2	\$ 95	4157	\$394,915	
	Concrete Bus Pad	m2	\$ 100	29	\$2,880	
	Culvert 450	m	\$ 300	61	\$18,300	
	Culvert 525	m	\$ 350	19	\$6,662	
	Culvert 600	m	\$ 400	75	\$29,880	
	Culvert 900	m	\$ 800	139	\$111,599	
	Pavement Marking 60cm	m	\$ 405	40	\$16,200	
	Pavement Marking Symbol	ea	\$ 52	125	\$6,500	
	Hydrant Relocation	ea	\$ 7	7000	\$49,000	
	Traffic Control	L.S.	\$ 20,000	1	\$20,000	
	Miscellaneous (15%)	L.S.	\$ 140,418	1	\$140,418	
	Contingency (20%)	L.S.	\$ 215,308	1	\$215,308	
	Sub Total					

PROJECT TOTAL

\$13,121,890

CASH FLOW	Year I	Year II	Year III	Year IV	Total
	\$1,958,630	\$3,582,000	\$3,790,630	\$3,790,630	\$13,121,890