

Engineer's Opinion of Costs

Project Number: 1110811 Estimate Number: 2 Project Type: New Construction Location: Grayling, MI Description: Grayling Region I-75 Access Project: This road and bridge construction project upgrades the existing I-75/NDRR interchange from half to full access, improves the capacity of connecting roadways, and makes multimodal connections; serving downtown Grayling,	Project Engineer: Lucas C. Porath, P.E. Date Created: 6/4/2015 Date Edited: 6/4/2015 Fed/State #: Fed Item: Control Section:
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Line	Pay Item	Description	Quantity	Units	Unit Price	Total
Category: 0001 Road						
0001	1500001	Mobilization, Max. ____	1.000	LSUM	\$640,586.00	\$640,586.00
0002	2010001	Clearing	15.000	Acre	\$6,000.00	\$90,000.00
0003	2040020	Curb and Gutter, Rem	100.000	Ft	\$5.50	\$550.00
0004	2040035	Guardrail, Rem	800.000	Ft	\$1.20	\$960.00
0005	2050011	Embankment, LM	34,000.000	Cyd	\$8.00	\$272,000.00
0006	2050016	Excavation, Earth	27,000.000	Cyd	\$5.00	\$135,000.00
0007	2080020	Erosion Control, Inlet Protection, Fabric Drop	10.000	Ea	\$65.00	\$650.00
0008	2080036	Erosion Control, Silt Fence	1,000.000	Ft	\$2.00	\$2,000.00
0009	3010002	Subbase, CIP	14,000.000	Cyd	\$8.00	\$112,000.00
0010	3020001	Aggregate Base	19,500.000	Ton	\$12.00	\$234,000.00
0011	4020987	Sewer, CI IV, 12 inch, Tr Det B	300.000	Ft	\$32.00	\$9,600.00
0012	4020989	Sewer, CI IV, 18 inch, Tr Det B	2,000.000	Ft	\$34.00	\$68,000.00
0013	4030210	Dr Structure, 48 inch dia	15.000	Ea	\$1,300.00	\$19,500.00
0014	5010051	HMA, 4E3	8,300.000	Ton	\$65.00	\$539,500.00
0015	5010057	HMA, 5E3	3,800.000	Ton	\$67.00	\$254,600.00
0016	5010061	HMA Approach	500.000	Ton	\$90.00	\$45,000.00
0017	8020010	Curb and Gutter, Bridge Approach	80.000	Ft	\$30.00	\$2,400.00
0018	8020036	Curb and Gutter, Conc, Det F2	5,500.000	Ft	\$18.00	\$99,000.00
0019	8030044	Sidewalk, Conc, 4 inch	12,000.000	Sft	\$4.00	\$48,000.00
0020	8070000	Guardrail, Type B	1,000.000	Ft	\$16.00	\$16,000.00
0021	8070023	Guardrail Anch, Bridge, Det T2	4.000	Ea	\$1,300.00	\$5,200.00
0022	8070040	Guardrail Approach Terminal, Type 1B	4.000	Ea	\$1,750.00	\$7,000.00

Line	Pay Item	Description	Quantity	Units	Unit Price	Total
0023	8070080	Guardrail Reflector	40.000	Ea	\$50.00	\$2,000.00
0024	8100304	Mast Arm	6.000	Ea	\$5,500.00	\$33,000.00
0025	8100305	Mast Arm Std	6.000	Ea	\$6,000.00	\$36,000.00
0026	8100306	Mast Arm Std Fdn, Cased	150.000	Ft	\$320.00	\$48,000.00
0027	8100371	Post, Steel, 3 lb	750.000	Ft	\$4.00	\$3,000.00
0028	8100404	Sign, Type IIIA	200.000	Sft	\$14.00	\$2,800.00
0029	8100405	Sign, Type IIIB	300.000	Sft	\$15.00	\$4,500.00
0030	8110092	Pavt Mrkg, Polyurea, 4 inch, Yellow	10,000.000	Ft	\$0.75	\$7,500.00
0031	8110094	Pavt Mrkg, Polyurea, 6 inch, White	10,000.000	Ft	\$0.85	\$8,500.00
0032	8110104	Pavt Mrkg, Polyurea, Bike, Large Symbol	10.000	Ea	\$350.00	\$3,500.00
0033	8110105	Pavt Mrkg, Polyurea, Bike, Small Symbol	10.000	Ea	\$250.00	\$2,500.00
0034	8110110	Pavt Mrkg, Polyurea, 12 inch, Crosswalk	1,200.000	Ft	\$3.50	\$4,200.00
0035	8110114	Pavt Mrkg, Polyurea, 24 inch, Stop Bar	500.000	Ft	\$7.00	\$3,500.00
0036	8110405	Pavt Mrkg, Polyurea, Lt Turn Arrow Sym	18.000	Ea	\$100.00	\$1,800.00
0037	8110410	Pavt Mrkg, Polyurea, Only	6.000	Ea	\$100.00	\$600.00
0038	8110412	Pavt Mrkg, Polyurea, Rt Turn Arrow Sym	6.000	Ea	\$100.00	\$600.00
0039	8120012	Barricade, Type III, High Intensity, Double Sided, Lighted, Furn	4.000	Ea	\$100.00	\$400.00
0040	8120013	Barricade, Type III, High Intensity, Double Sided, Lighted, Oper	4.000	Ea	\$50.00	\$200.00
0041	8120100	Dust Palliative, Applied	20.000	Ton	\$250.00	\$5,000.00
0042	8120140	Lighted Arrow, Type C, Furn	2.000	Ea	\$475.00	\$950.00
0043	8120141	Lighted Arrow, Type C, Oper	2.000	Ea	\$125.00	\$250.00
0044	8120170	Minor Traf Devices	1.000	LSUM	\$30,000.00	\$30,000.00
0045	8120221	Pavt Mrkg, Type NR, Paint, 4 inch, Yellow, Temp	800.000	Ft	\$0.25	\$200.00
0046	8120250	Plastic Drum, High Intensity, Furn	500.000	Ea	\$20.00	\$10,000.00
0047	8120251	Plastic Drum, High Intensity, Oper	500.000	Ea	\$5.00	\$2,500.00
0048	8120350	Sign, Type B, Temp, Prismatic, Furn	2,500.000	Sft	\$5.00	\$12,500.00
0049	8120351	Sign, Type B, Temp, Prismatic, Oper	2,500.000	Sft	\$1.00	\$2,500.00
0050	8120370	Traf Regulator Control	1.000	LSUM	\$15,000.00	\$15,000.00
0051	8160055	Sodding	2,000.000	Syd	\$5.00	\$10,000.00
0052	8160102	Slope Restoration, Type C	30,000.000	Syd	\$2.50	\$75,000.00
0053	8197050	Street Lighting at Intersections, per Pole/ Fix	6.000	Ea	\$6,500.00	\$39,000.00

Line	Pay Item	Description	Quantity	Units	Unit Price	Total
0054	8200031	Controller and Cabinet, Digital Type	2.000	Ea	\$15,000.00	\$30,000.00
0055	8200033	Controller and Cabinet, Digital Type, Master	2.000	Ea	\$15,000.00	\$30,000.00
0056	8200090	Metered Serv	2.000	Ea	\$700.00	\$1,400.00
0057	8200171	Traf Loop, Presence	6.000	Ea	\$1,500.00	\$9,000.00
0058	8200359	TS, One Way Mast Arm Mtd (LED)	6.000	Ea	\$1,300.00	\$7,800.00
Category 0001 Total: \$3,045,246.00						
Category: 0002 Bridge						
0059	2040060	Structures, Rem	1.000	LSUM	\$190,000.00	\$190,000.00
0060	8507010	_ 345' Long, 64' Wide, 5 Span, 3-Lane Bridge	22,080.000	Sft	\$165.00	\$3,643,200.00
0061	8507010	_ Retaining Wall	4,000.000	Sft	\$42.00	\$168,000.00
Category 0002 Total: \$4,001,200.00						
Category: 0003 Contingency						
0062	8507060	_ Estimating Contingency (10%)	7,046,446.000	Dlr	\$0.10	\$704,644.60
Category 0003 Total: \$704,644.60						
Category: 0004 Engineering						
0063	8507060	_ Engineering (10%)	7,046,446.000	Dlr	\$0.10	\$704,644.60
Category 0004 Total: \$704,644.60						
Category: 0005 Right-of-Way						
0064	8507050	_ R/W Donation - Private	1.000	Ea	\$70,000.00	\$70,000.00
Category 0005 Total: \$70,000.00						
Estimate Total: \$8,525,735.20						