

Otsego County Economic Alliance / Road Commission

Engineer's Opinion of Costs

Project Number: Van Tyle Road

Project Engineer: Paul M. Repasky, P.E.

Estimate Number: 1

Date Created: 8/26/2009

Project Type: Road Reconstruction

Fed/State #:

Location: Otsego County

Fed Item:

Van Tyle Road

Control Section:

Description: Draft Estimate, Van Tyle Road from Dickerson Road to S Townline. Proposed 42' wide grade (2-12' lanes with 4' paved shoulder plus 4' gravel shoulder; curb and gutter at McVannel Road Extended only; trench, crush and shape exist. bit; grading, drainage, h

Line	Pay Item	Description	Quantity	Units	Unit Price	Total
0001	1000001	Mobilization, Max. ____	1.00	LS	\$50,000.00	\$50,000.00
0002	2010001	Clearing	.50	Acre	\$4,000.00	\$2,000.00
0003	2050010	Embankment, CIP	8,340.00	Cyd	\$3.00	\$25,020.00
0004	2050016	Excavation, Earth	2,640.00	Cyd	\$4.00	\$10,560.00
0005	2050041	Subgrade Undercutting, Type II	500.00	Cyd	\$7.50	\$3,750.00
0006	2080002	Erosion Control, Check Dam, Stone	100.00	Ft	\$35.00	\$3,500.00
0007	2080025	Erosion Control, Silt Fence	1,000.00	Ft	\$3.00	\$3,000.00
0008	3010002	Subbase, CIP	340.00	Cyd	\$7.50	\$2,550.00
0009	3020001	Aggregate Base	7,885.00	Ton	\$8.89	\$70,097.65
0010	3020020	Aggregate Base, 8 inch	4,655.00	Syd	\$4.67	\$21,738.85
0011	3050002	HMA Base Crushing and Shaping	28,160.00	Syd	\$1.25	\$35,200.00
0012	3050015	Salv Crushed Material, LM	59.00	Cyd	\$12.00	\$708.00
0013	3070026	Approach, CI II, 4 inch	840.00	Syd	\$3.50	\$2,940.00
0014	3070126	Shoulder, CI II, 4 inch	9,387.00	Syd	\$4.25	\$39,894.75
0015	3070200	Trenching	211.00	Sta	\$200.00	\$42,200.00
0016	4010000	Culv, CI A, 12 inch	1,254.00	Ft	\$30.00	\$37,620.00
0017	4010001	Culv, CI A, 15 inch	400.00	Ft	\$35.00	\$14,000.00
0018	4010831	Culv End Sect, 12 inch	6.00	Ea	\$150.00	\$900.00
0019	4010832	Culv End Sect, 15 inch	10.00	Ea	\$225.00	\$2,250.00
0020	5020031	HMA, 3C	4,340.00	Ton	\$50.00	\$217,000.00
0021	5020032	HMA, 4C	3,252.00	Ton	\$51.00	\$165,852.00
0022	5020061	HMA Approach	853.00	Ton	\$90.00	\$76,770.00

Line	Pay Item	Description	Quantity	Units	Unit Price	Total
0023	8020016	Curb and Gutter, Conc, Det B2	166.00	Ft	\$30.00	\$4,980.00
0024	8110066	Pavt Mrkg, Regular Dry, 4 inch, Yellow	21,120.00	Ft	\$0.20	\$4,224.00
0025	8110067	Pavt Mrkg, Regular Dry, 6 inch, White	21,120.00	Ft	\$0.20	\$4,224.00
0026	8120005	Barricade, Type III, High Intensity, Lighted, Furn	4.00	Ea	\$500.00	\$2,000.00
0027	8120006	Barricade, Type III, High Intensity, Lighted, Oper	4.00	Ea	\$200.00	\$800.00
0028	8120030	Flag Control	1.00	LS	\$15,000.00	\$15,000.00
0029	8120042	Lighted Arrow, Type C, Furn	2.00	Ea	\$500.00	\$1,000.00
0030	8120043	Lighted Arrow, Type C, Oper	2.00	Ea	\$400.00	\$800.00
0031	8120050	Minor Traf Devices	1.00	LS	\$20,000.00	\$20,000.00
0032	8120091	Pavt Mrkg, Type R, 4 inch, Yellow, Temp	2,640.00	Ft	\$1.00	\$2,640.00
0033	8120102	Plastic Drum, High Intensity, Lighted, Furn	500.00	Ea	\$25.00	\$12,500.00
0034	8120103	Plastic Drum, High Intensity, Lighted, Oper	500.00	Ea	\$10.00	\$5,000.00
0035	8120120	Sign, Type B, Temp, Furn	850.00	Sft	\$4.00	\$3,400.00
0036	8120121	Sign, Type B, Temp, Oper	850.00	Sft	\$1.50	\$1,275.00
0037	8130010	Riprap, Plain	100.00	Syd	\$30.00	\$3,000.00
0038	8140005	Ditch, Plain Cobble	60.00	Syd	\$20.00	\$1,200.00
0039	8140010	Paved Ditch, HMA	60.00	Syd	\$40.00	\$2,400.00
0040	8160028	Mulch Blanket, High Velocity	2,800.00	Syd	\$1.50	\$4,200.00
0041	8160050	Slope Restoration	23,500.00	Syd	\$1.25	\$29,375.00
0042	8210001	Monument Box	4.00	Ea	\$300.00	\$1,200.00
0043	8210010	Monument Preservation	4.00	Ea	\$400.00	\$1,600.00

Estimate Total: \$948,369.25

Otsego County Economic Alliance / Road Commission

Engineer's Opinion of Costs

Project Number: Milbocker Road Estimate Number: 1 Project Type: Road Reconstruction Location: Otsego County Milbocker Road Description: Draft Estimate, Milbocker Road from Dickerson 9,050 feet west: Category 1 is 6,550 feet; Category 2 is 2500 feet (3 lanes to end of Industrial Park). Proposed 40' grade (2-12' lanes with 5' paved shoulder plus 3' gravel shoulder; curb and gutter at exist	Project Engineer: Paul M. Repasky, P.E. Date Created: 8/20/2009 Fed/State #: Fed Item: Control Section:
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Line	Pay Item	Description	Quantity	Units	Unit Price	Total
Category: 0001 Road Reconstrucion: West 6,550 lft						
0001	1000001	Mobilization, Max. ____	1.00	LS	\$50,000.00	\$50,000.00
0002	2010001	Clearing	.50	Acre	\$4,000.00	\$2,000.00
0003	2020002	Tree, Rem, 19 inch to 36 inch	1.00	Ea	\$500.00	\$500.00
0004	2040006	Curb and Gutter, Rem	50.00	Ft	\$10.00	\$500.00
0005	2050010	Embankment, CIP	13,500.00	Cyd	\$3.00	\$40,500.00
0006	2050016	Excavation, Earth	12,800.00	Cyd	\$4.00	\$51,200.00
0007	2050041	Subgrade Undercutting, Type II	100.00	Cyd	\$7.50	\$750.00
0008	2080002	Erosion Control, Check Dam, Stone	50.00	Ft	\$35.00	\$1,750.00
0009	2080025	Erosion Control, Silt Fence	400.00	Ft	\$3.00	\$1,200.00
0010	3010002	Subbase, CIP	6,300.00	Cyd	\$7.50	\$47,250.00
0011	3020010	Aggregate Base, 4 inch	17,300.00	Syd	\$3.75	\$64,875.00
0012	3020026	Aggregate Base, 10 inch	9,800.00	Syd	\$6.25	\$61,250.00
0013	3050002	HMA Base Crushing and Shaping	19,500.00	Syd	\$1.25	\$24,375.00
0014	3050015	Salv Crushed Material, LM	1,200.00	Cyd	\$12.00	\$14,400.00
0015	3070026	Approach, CI II, 4 inch	1,200.00	Syd	\$3.50	\$4,200.00
0016	3070125	Shoulder, CI II, 3 inch	4,300.00	Syd	\$3.50	\$15,050.00
0017	3070200	Trenching	131.00	Sta	\$55.00	\$7,205.00
0018	4010001	Culv, CI A, 15 inch	160.00	Ft	\$35.00	\$5,600.00
0019	4010832	Culv End Sect, 15 inch	4.00	Ea	\$225.00	\$900.00
0020	5020031	HMA, 3C	3,300.00	Ton	\$50.00	\$165,000.00
0021	5020032	HMA, 4C	2,550.00	Ton	\$55.00	\$140,250.00
0022	5020061	HMA Approach	150.00	Ton	\$90.00	\$13,500.00
0023	8020016	Curb and Gutter, Conc, Det B2	400.00	Ft	\$30.00	\$12,000.00

Line	Pay Item	Description	Quantity	Units	Unit Price	Total
0024	8110065	Pavt Mrkg, Regular Dry, 4 inch, White	13,000.00	Ft	\$0.20	\$2,600.00
0025	8110066	Pavt Mrkg, Regular Dry, 4 inch, Yellow	10,000.00	Ft	\$0.20	\$2,000.00
0026	8120005	Barricade, Type III, High Intensity, Lighted, Furn	2.00	Ea	\$500.00	\$1,000.00
0027	8120006	Barricade, Type III, High Intensity, Lighted, Oper	2.00	Ea	\$200.00	\$400.00
0028	8120030	Flag Control	1.00	LS	\$15,000.00	\$15,000.00
0029	8120042	Lighted Arrow, Type C, Furn	2.00	Ea	\$500.00	\$1,000.00
0030	8120043	Lighted Arrow, Type C, Oper	2.00	Ea	\$400.00	\$800.00
0031	8120050	Minor Traf Devices	1.00	LS	\$20,000.00	\$20,000.00
0032	8120091	Pavt Mrkg, Type R, 4 inch, Yellow, Temp	800.00	Ft	\$1.00	\$800.00
0033	8120102	Plastic Drum, High Intensity, Lighted, Furn	100.00	Ea	\$25.00	\$2,500.00
0034	8120103	Plastic Drum, High Intensity, Lighted, Oper	100.00	Ea	\$10.00	\$1,000.00
0035	8120120	Sign, Type B, Temp, Furn	500.00	Sft	\$4.00	\$2,000.00
0036	8120121	Sign, Type B, Temp, Oper	500.00	Sft	\$1.50	\$750.00
0037	8130010	Riprap, Plain	100.00	Syd	\$30.00	\$3,000.00
0038	8140005	Ditch, Plain Cobble	100.00	Syd	\$20.00	\$2,000.00
0039	8140010	Paved Ditch, HMA	40.00	Syd	\$40.00	\$1,600.00
0040	8160027	Mulch Blanket	1,600.00	Syd	\$1.10	\$1,760.00
0041	8160028	Mulch Blanket, High Velocity	900.00	Syd	\$1.50	\$1,350.00
0042	8160050	Slope Restoration	14,500.00	Syd	\$1.25	\$18,125.00
0043	8210001	Monument Box	2.00	Ea	\$300.00	\$600.00
0044	8210010	Monument Preservation	2.00	Ea	\$400.00	\$800.00

Category 0001 Total: \$803,340.00

Category: 0002 Center Turn Lane at east 2,500 lft of project

0045	2040006	Curb and Gutter, Rem	450.00	Ft	\$10.00	\$4,500.00
0046	2050010	Embankment, CIP	1,500.00	Cyd	\$3.00	\$4,500.00
0047	2050016	Excavation, Earth	1,000.00	Cyd	\$4.00	\$4,000.00
0048	2050041	Subgrade Undercutting, Type II	100.00	Cyd	\$7.50	\$750.00
0049	2080025	Erosion Control, Silt Fence	100.00	Ft	\$3.00	\$300.00
0050	3010002	Subbase, CIP	2,050.00	Cyd	\$7.50	\$15,375.00
0051	3020010	Aggregate Base, 4 inch	6,200.00	Syd	\$3.75	\$23,250.00
0052	3020026	Aggregate Base, 10 inch	7,100.00	Syd	\$6.25	\$44,375.00

Line	Pay Item	Description	Quantity	Units	Unit Price	Total
0053	3050002	HMA Base Crushing and Shaping	7,500.00	Syd	\$1.25	\$9,375.00
0054	3070026	Approach, CI II, 4 inch	800.00	Syd	\$3.50	\$2,800.00
0055	3070125	Shoulder, CI II, 3 inch	1,700.00	Syd	\$3.50	\$5,950.00
0056	3070200	Trenching	50.00	Sta	\$200.00	\$10,000.00
0057	4010000	Culv, CI A, 12 inch	300.00	Ft	\$30.00	\$9,000.00
0058	4010831	Culv End Sect, 12 inch	10.00	Ea	\$150.00	\$1,500.00
0059	4030053	Dr Structure Cover, Adj, Case 2	6.00	Ea	\$300.00	\$1,800.00
0060	5020031	HMA, 3C	1,400.00	Ton	\$50.00	\$70,000.00
0061	5020032	HMA, 4C	1,050.00	Ton	\$51.00	\$53,550.00
0062	5020061	HMA Approach	350.00	Ton	\$90.00	\$31,500.00
0063	8020016	Curb and Gutter, Conc, Det B2	800.00	Ft	\$30.00	\$24,000.00
0064	8110065	Pavt Mrkg, Regular Dry, 4 inch, White	10,000.00	Ft	\$0.20	\$2,000.00
0065	8120091	Pavt Mrkg, Type R, 4 inch, Yellow, Temp	200.00	Ft	\$1.00	\$200.00
0066	8140010	Paved Ditch, HMA	10.00	Syd	\$40.00	\$400.00
0067	8160027	Mulch Blanket	400.00	Syd	\$1.10	\$440.00
0068	8160028	Mulch Blanket, High Velocity	100.00	Syd	\$1.50	\$150.00
0069	8160050	Slope Restoration	5,500.00	Syd	\$1.25	\$6,875.00
0070	8210001	Monument Box	1.00	Ea	\$300.00	\$300.00
0071	8210010	Monument Preservation	1.00	Ea	\$400.00	\$400.00

Category 0002 Total: \$327,290.00

Estimate Total: \$1,130,630.00

Otsego County Economic Alliance / Road Commission

Engineer's Opinion of Costs

Project Number: McCoy Road Estimate Number: 1 Project Type: Road Reconstruction Location: Otsego County McCoy Road	Project Engineer: Paul M. Repasky, P.E. Date Created: 8/26/2009 Fed/State #: Fed Item: Control Section:
Description: Draft Estimate, McCoy Road from KrysRoad to M-32. Proposed 42' wide grade (2-12' lanes with 4' paved shoulder plus 4' gravel shoulder; curb and gutter at M-32 only; trench, crush and shape exist. bit; grading, drainage, horizontal ,vertical, new cross se	

Line	Pay Item	Description	Quantity	Units	Unit Price	Total
0001	1000001	Mobilization, Max. _____	1.00	LS	\$50,000.00	\$50,000.00
0002	2010001	Clearing	2.00	Acre	\$4,000.00	\$8,000.00
0003	2020002	Tree, Rem, 19 inch to 36 inch	8.00	Ea	\$500.00	\$4,000.00
0004	2050010	Embankment, CIP	50,250.00	Cyd	\$3.00	\$150,750.00
0005	2050016	Excavation, Earth	46,235.00	Cyd	\$4.00	\$184,940.00
0006	2050041	Subgrade Undercutting, Type II	7,290.00	Cyd	\$7.50	\$54,675.00
0007	2080002	Erosion Control, Check Dam, Stone	300.00	Ft	\$35.00	\$10,500.00
0008	2080025	Erosion Control, Silt Fence	3,000.00	Ft	\$3.00	\$9,000.00
0009	3010002	Subbase, CIP	7,000.00	Cyd	\$7.50	\$52,500.00
0010	3020001	Aggregate Base	10,500.00	Ton	\$8.89	\$93,345.00
0011	3020020	Aggregate Base, 8 inch	16,910.00	Syd	\$4.67	\$78,969.70
0012	3050002	HMA Base Crushing and Shaping	100,000.00	Syd	\$1.25	\$125,000.00
0013	3050015	Salv Crushed Material, LM	1,300.00	Cyd	\$12.00	\$15,600.00
0014	3070026	Approach, CI II, 4 inch	3,680.00	Syd	\$3.50	\$12,880.00
0015	3070126	Shoulder, CI II, 4 inch	26,951.00	Syd	\$4.25	\$114,541.75
0016	3070200	Trenching	563.00	Sta	\$200.00	\$112,600.00
0017	4010000	Culv, CI A, 12 inch	3,952.00	Ft	\$30.00	\$118,560.00
0018	4010001	Culv, CI A, 15 inch	1,000.00	Ft	\$35.00	\$35,000.00
0019	4010831	Culv End Sect, 12 inch	10.00	Ea	\$150.00	\$1,500.00
0020	4010832	Culv End Sect, 15 inch	26.00	Ea	\$225.00	\$5,850.00
0021	5020031	HMA, 3C	12,451.00	Ton	\$50.00	\$622,550.00
0022	5020032	HMA, 4C	10,100.00	Ton	\$51.00	\$515,100.00

Line	Pay Item	Description	Quantity	Units	Unit Price	Total
0023	5020061	HMA Approach	1,900.00	Ton	\$90.00	\$171,000.00
0024	8020016	Curb and Gutter, Conc, Det B2	460.00	Ft	\$30.00	\$13,800.00
0025	8070000	Guardrail, Type B	3,400.00	Ft	\$17.85	\$60,690.00
0026	8070042	Guardrail Approach Terminal, Type 2B	14.00	Ea	\$2,150.00	\$30,100.00
0027	8070080	Guardrail Reflector	250.00	Ea	\$4.00	\$1,000.00
0028	8110066	Pavt Mrkg, Regular Dry, 4 inch, Yellow	60,640.00	Ft	\$0.20	\$12,128.00
0029	8110067	Pavt Mrkg, Regular Dry, 6 inch, White	60,640.00	Ft	\$0.20	\$12,128.00
0030	8120005	Barricade, Type III, High Intensity, Lighted, Furn	2.00	Ea	\$500.00	\$1,000.00
0031	8120006	Barricade, Type III, High Intensity, Lighted, Oper	2.00	Ea	\$200.00	\$400.00
0032	8120030	Flag Control	1.00	LS	\$15,000.00	\$15,000.00
0033	8120042	Lighted Arrow, Type C, Furn	2.00	Ea	\$500.00	\$1,000.00
0034	8120043	Lighted Arrow, Type C, Oper	2.00	Ea	\$400.00	\$800.00
0035	8120050	Minor Traf Devices	1.00	LS	\$20,000.00	\$20,000.00
0036	8120091	Pavt Mrkg, Type R, 4 inch, Yellow, Temp	7,580.00	Ft	\$1.00	\$7,580.00
0037	8120102	Plastic Drum, High Intensity, Lighted, Furn	500.00	Ea	\$25.00	\$12,500.00
0038	8120103	Plastic Drum, High Intensity, Lighted, Oper	500.00	Ea	\$10.00	\$5,000.00
0039	8120120	Sign, Type B, Temp, Furn	1,200.00	Sft	\$4.00	\$4,800.00
0040	8120121	Sign, Type B, Temp, Oper	1,200.00	Sft	\$1.50	\$1,800.00
0041	8130010	Riprap, Plain	250.00	Syd	\$30.00	\$7,500.00
0042	8140005	Ditch, Plain Cobble	60.00	Syd	\$20.00	\$1,200.00
0043	8140010	Paved Ditch, HMA	60.00	Syd	\$40.00	\$2,400.00
0044	8160028	Mulch Blanket, High Velocity	13,200.00	Syd	\$1.50	\$19,800.00
0045	8160050	Slope Restoration	47,165.00	Syd	\$1.25	\$58,956.25
0046	8210001	Monument Box	15.00	Ea	\$300.00	\$4,500.00
0047	8210010	Monument Preservation	15.00	Ea	\$400.00	\$6,000.00
Estimate Total:						\$2,846,943.70