

**City of Saugatuck & Friends of the Blue Star Trail**  
**Blue Star Trail Feasibility Study**  
**Engineer's Pre-Design Estimate of Probable Project Cost**



Project: 837010  
 Date: 12/19/2018  
 By: LMS/JWM

**Part 1 - Existing Trail to Kalamazoo River Bridge, Option 2B - Widened/Shared Sidewalk with Buffer, West Side**

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 4,200.00	\$ 4,200.00
2	Soil Erosion & Sedimentation Control	LS	1	\$ 1,000.00	\$ 1,000.00
3	Temporary Traffic Control	LS	1	\$ 1,500.00	\$ 1,500.00
4	Curb and Gutter, Rem	FT	300	\$ 10.00	\$ 3,000.00
5	Sidewalk, Rem	SYD	150	\$ 10.00	\$ 1,500.00
6	Pavt, Rem	SYD	250	\$ 8.00	\$ 2,000.00
7	Drainage Modifications	LS	1	\$ 4,000.00	\$ 4,000.00
8	Aggregate Base, 8 inch	SYD	15	\$ 10.00	\$ 150.00
9	Subbase, CIP	CYD	70	\$ 12.00	\$ 840.00
10	Hand Patching	TON	25	\$ 150.00	\$ 3,750.00
11	Curb and Gutter, Conc, Det F4	FT	340	\$ 15.00	\$ 5,100.00
12	Sidewalk, Conc, 4 inch	SFT	3,360	\$ 4.00	\$ 13,440.00
13	Sidewalk Ramp, 6 inch	SFT	140	\$ 8.00	\$ 1,120.00
14	Guardrail, Rem and Reinstall	FT	250	\$ 10.00	\$ 2,500.00
15	Pavement Markings	LS	1	\$ 1,000.00	\$ 1,000.00
16	Permanent Signage	LS	1	\$ 100.00	\$ 100.00
17	Slope Restoration	SYD	100	\$ 5.00	\$ 500.00

Subtotal Estimated Construction Cost: \$ 45,700.00  
 Undeveloped Details & Construction Contingencies (25%): \$ 11,400.00  
Estimated Design & Construction Engineering & Admin (15%): \$ 8,600.00  
**Total Estimated Project Cost (Rounded): \$ 57,100.00**

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**Part 2 - Bridge over the Kalamazoo River, Option 2B - Widened/Shared Sidewalk with Buffer, West Side**

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 19,100.00	\$ 19,100.00
2	Soil Erosion & Sedimentation Control	LS	1	\$ 1,000.00	\$ 1,000.00
3	Temporary Traffic Control	LS	1	\$ 2,000.00	\$ 2,000.00
4	Epoxy Overlay, Rem	SYD	400	\$ 5.00	\$ 2,000.00
5	Hand Chipping, Other than Deck (Sidewalk Edge)	CFT	50	\$ 50.00	\$ 2,500.00
6	Deck Joint, Rem	FT	70	\$ 150.00	\$ 10,500.00
7	Deck Drain Modifications	LS	1	\$ 10,000.00	\$ 10,000.00
8	Reinforcement, Steel, Epoxy Coated	LB	13,000	\$ 1.25	\$ 16,250.00
9	Adhesive Anchoring of Vertical Bar, 1/2 inch	EA	650	\$ 10.00	\$ 6,500.00
10	Adhesive Anchoring of Horizontal Bar, 3/4 inch	EA	970	\$ 20.00	\$ 19,400.00
11	Expansion Joint Device	FT	70	\$ 150.00	\$ 10,500.00
12	Expansion Joint Device, Cover Plate	FT	70	\$ 200.00	\$ 14,000.00
13	Conc, Grade D	CYD	95	\$ 650.00	\$ 61,750.00
14	Superstructure Conc, Form, Finish & Cure	LS	1	\$ 5,000.00	\$ 5,000.00
15	Railing Upgrades	FT	480	\$ 50.00	\$ 24,000.00
16	Pavement Markings	LS	1	\$ 5,000.00	\$ 5,000.00
17	Permanent Signage	LS	1	\$ 500.00	\$ 500.00

Subtotal Estimated Construction Cost: \$ 210,000.00  
 Undeveloped Details & Construction Contingencies (25%): \$ 52,500.00  
Estimated Design & Construction Engineering & Admin (15%): \$ 39,400.00  
**Total Estimated Project Cost (Rounded): \$ 262,500.00**

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**Part 3 - Kalamazoo River Bridge to Lake Street, Option 2B - Widened/Shared Sidewalk, West Side**

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 13,500.00	\$ 13,500.00
2	Soil Erosion & Sedimentation Control	LS	1	\$ 2,500.00	\$ 2,500.00
3	Temporary Traffic Control	LS	1	\$ 2,500.00	\$ 2,500.00
4	Curb and Gutter, Rem	FT	320	\$ 10.00	\$ 3,200.00
5	Sidewalk, Rem	SYD	440	\$ 10.00	\$ 4,400.00
6	Pavt, Rem	SYD	250	\$ 8.00	\$ 2,000.00
7	Drainage Modifications	LS	1	\$ 4,000.00	\$ 4,000.00
8	Sidewalk Grading	STA	4	\$ 1,000.00	\$ 4,000.00
9	Subbase, CIP	CYD	200	\$ 12.00	\$ 2,400.00
10	Hand Patching	TON	15	\$ 150.00	\$ 2,250.00
11	Sidewalk, Conc, 4 inch	SFT	9,200	\$ 4.00	\$ 36,800.00
12	Curb and Gutter, Conc, Det F4	FT	325	\$ 20.00	\$ 6,500.00
13	Decorative Railing/Fencing	FT	780	\$ 25.00	\$ 19,500.00
14	Pavement Markings	LS	1	\$ 2,000.00	\$ 2,000.00
15	Permanent Signage	LS	1	\$ 500.00	\$ 500.00
16	Slope Stabilization	LS	1	\$ 40,000.00	\$ 40,000.00
17	Slope Restoration	SYD	500	\$ 5.00	\$ 2,500.00

Subtotal Estimated Construction Cost: \$ 148,600.00  
 Undeveloped Details & Construction Contingencies (25%): \$ 37,200.00  
Estimated Design & Construction Engineering & Admin (15%): \$ 27,900.00  
**Total Estimated Project Cost (Rounded): \$ 185,800.00**

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**Part 4 - Blue Star Highway & Lake Street Intersection, Option 2A - Signalized, Widened/Shared Sidewalk in front of Saugatuck sign**

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 26,300.00	\$ 26,300.00
2	Soil Erosion & Sedimentation Control	LS	1	\$ 2,500.00	\$ 2,500.00
3	Temporary Traffic Control	LS	1	\$ 2,500.00	\$ 2,500.00
4	Curb and Gutter, Rem	FT	160	\$ 10.00	\$ 1,600.00
5	Sidewalk, Rem	SYD	50	\$ 10.00	\$ 500.00
6	Sidewalk Grading	STA	1.5	\$ 1,000.00	\$ 1,500.00
7	Pavt, Rem	SYD	80	\$ 10.00	\$ 800.00
8	Subbase, CIP	CYD	40	\$ 12.00	\$ 480.00
9	Sidewalk, Conc, 4 inch	SFT	1,400	\$ 4.00	\$ 5,600.00
10	Sidewalk Ramp, Conc, 6 inch	SFT	700	\$ 10.00	\$ 7,000.00
11	Curb and Gutter, Conc, Det F4	FT	130	\$ 18.00	\$ 2,340.00
12	Curb Ramp Opening, Conc	FT	30	\$ 30.00	\$ 900.00
13	Decorative Railing/Fencing	FT	100	\$ 25.00	\$ 2,500.00
14	Traffic Signal	LS	1	\$ 200,000.00	\$ 200,000.00
15	Pavement Markings	LS	1	\$ 2,000.00	\$ 2,000.00
16	Permanent Signage	LS	1	\$ 1,000.00	\$ 1,000.00
17	Landscaping	LS	1	\$ 2,000.00	\$ 2,000.00
18	Drainage Modifications	LS	1	\$ 2,000.00	\$ 2,000.00
19	Slope Stabilization	LS	1	\$ 25,000.00	\$ 25,000.00
20	Slope Restoration	SYD	500	\$ 5.00	\$ 2,500.00

Subtotal Estimated Construction Cost: \$ 289,000.00  
 Undeveloped Details & Construction Contingencies (25%): \$ 72,300.00  
Estimated Design & Construction Engineering & Admin (15%): \$ 54,200.00  
**Total Estimated Project Cost (Rounded): \$ 361,300.00**

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**Part 5 - Lake Street to Maple Street, Option 2B - Partial Retaining Wall on West Side with Buffer**

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 21,100.00	\$ 21,100.00
2	Soil Erosion & Sedimentation Control	LS	1	\$ 2,500.00	\$ 2,500.00
3	Temporary Traffic Control	LS	1	\$ 2,500.00	\$ 2,500.00
4	Pavt, Rem	SYD	500	\$ 8.00	\$ 4,000.00
5	Aggregate Base, 8 inch	SYD	50	\$ 10.00	\$ 500.00
6	Hand Patching	TON	25	\$ 150.00	\$ 3,750.00
7	Sidewalk Grading	STA	8.5	\$ 1,000.00	\$ 8,500.00
8	Subbase, CIP	CYD	250	\$ 12.00	\$ 3,000.00
9	Sidewalk Ramp, Conc, 6 inch	SFT	300	\$ 10.00	\$ 3,000.00
10	Curb Ramp Opening, Conc	FT	15	\$ 30.00	\$ 450.00
11	Guardrail, Rem and Replace	FT	200	\$ 25.00	\$ 5,000.00
12	Drainage Modifications	FT	250	\$ 30.00	\$ 7,500.00
13	Retainining Wall	SFT	2,000	\$ 50.00	\$ 100,000.00
14	Pavement Markings	LS	1	\$ 2,000.00	\$ 2,000.00
15	Permanent Signage	LS	1	\$ 500.00	\$ 500.00
16	Decorative Railing/Fencing	FT	500	\$ 25.00	\$ 12,500.00
17	Slope Stabilization	LS	1	\$ 50,000.00	\$ 50,000.00
18	Slope Restoration	SYD	1,000	\$ 5.00	\$ 5,000.00

Subtotal Estimated Construction Cost: \$ 231,800.00  
 Undeveloped Details & Construction Contingencies (25%): \$ 58,000.00  
 Estimated Design & Construction Engineering & Admin (15%): \$ 43,500.00  
**Total Estimated Project Cost (Rounded): \$ 289,800.00**

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