

**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 2C - Widened/Shared Sidewalk with Buffer, East Side**

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 7,500.00	\$ 7,500.00
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	100	\$ 10.00	\$ 1,000.00
6	Pavt, Rem	SYD	125	\$ 8.00	\$ 1,000.00
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	Curb and Gutter, Conc, Det F4	FT	300	\$ 15.00	\$ 4,500.00
11	Hand Patching	TON	25	\$ 150.00	\$ 3,750.00
12	Sidewalk, Conc, 4 inch	SFT	3,500	\$ 4.00	\$ 14,000.00
13	Sidewalk Ramp, 6 inch	SFT	320	\$ 8.00	\$ 2,560.00
14	Retaining Wall	SFT	250	\$ 50.00	\$ 12,500.00
15	Slope Grading	LS	1	\$ 10,000.00	\$ 10,000.00
16	Guardrail, Relocate	FT	300	\$ 10.00	\$ 3,000.00
17	Pavement Markings	LS	1	\$ 1,000.00	\$ 1,000.00
18	Permanent Signage	LS	1	\$ 100.00	\$ 100.00
19	Crosswalk Enhancement	LS	1	\$ 10,000.00	\$ 10,000.00
20	Slope Restoration	SYD	300	\$ 5.00	\$ 1,500.00

Subtotal Estimated Construction Cost: \$ 82,900.00  
 Undeveloped Details & Construction Contingencies (25%): \$ 20,700.00  
Estimated Design & Construction Engineering & Admin (15%): \$ 15,500.00  
**Total Estimated Project Cost (Rounded): \$ 103,600.00**

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

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 21,800.00	\$ 21,800.00
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	480	\$ 5.00	\$ 2,400.00
5	Hand Chipping, Other than Deck (Sidewalk Edge)	CFT	50	\$ 50.00	\$ 2,500.00
6	Deck Joint, Rem	FT	84	\$ 150.00	\$ 12,600.00
7	Deck Drain Modifications	LS	1	\$ 10,000.00	\$ 10,000.00
8	Reinforcement, Steel, Epoxy Coated	LB	16,000	\$ 1.25	\$ 20,000.00
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	84	\$ 150.00	\$ 12,600.00
12	Expansion Joint Device, Cover Plate	FT	84	\$ 200.00	\$ 16,800.00
13	Conc, Grade D	CYD	120	\$ 650.00	\$ 78,000.00
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: \$ 240,100.00  
 Undeveloped Details & Construction Contingencies (25%): \$ 60,000.00  
Estimated Design & Construction Engineering & Admin (15%): \$ 45,000.00  
**Total Estimated Project Cost (Rounded): \$ 300,100.00**

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**Part 3 - Kalamazoo River Bridge to Lake Street, Option 2C - Expanded Road on East Side**

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 61,300.00	\$ 61,300.00
2	Soil Erosion & Sedimentation Control	LS	1	\$ 4,000.00	\$ 4,000.00
3	Temporary Traffic Control	LS	1	\$ 5,000.00	\$ 5,000.00
4	Curb and Gutter, Rem	FT	30	\$ 10.00	\$ 300.00
5	Sidewalk, Rem	SYD	20	\$ 10.00	\$ 200.00
6	Pavt, Rem	SYD	500	\$ 8.00	\$ 4,000.00
7	Drainage Modifications	LS	1	\$ 8,000.00	\$ 8,000.00
8	Retaining Wall	SFT	9,500	\$ 50.00	\$ 475,000.00
9	Sidewalk Grading	STA	8	\$ 1,000.00	\$ 8,000.00
10	Subbase, CIP	CYD	250	\$ 12.00	\$ 3,000.00
11	Hand Patching	TON	20	\$ 150.00	\$ 3,000.00
12	Sidewalk, Conc, 4 inch	SFT	10,000	\$ 4.00	\$ 40,000.00
13	Curb and Gutter, Conc, Det F4	FT	820	\$ 20.00	\$ 16,400.00
14	Guardrail, Relocate	FT	820	\$ 10.00	\$ 8,200.00
15	Decorative Railing/Fencing	FT	800	\$ 25.00	\$ 20,000.00
16	Pavement Markings	LS	1	\$ 2,000.00	\$ 2,000.00
17	Permanent Signage	LS	1	\$ 500.00	\$ 500.00
18	Slope Stabilization	LS	1	\$ 10,000.00	\$ 10,000.00
19	Slope Restoration	SYD	1,000	\$ 5.00	\$ 5,000.00

Subtotal Estimated Construction Cost: \$ 673,900.00  
 Undeveloped Details & Construction Contingencies (25%): \$ 168,500.00  
Estimated Design & Construction Engineering & Admin (15%): \$ 126,400.00  
**Total Estimated Project Cost (Rounded): \$ 842,400.00**

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**Part 4 - Blue Star Highway & Lake Street Intersection, Option 2C- Stop Controlled, East Side with Buffer**

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 20,600.00	\$ 20,600.00
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	30	\$ 10.00	\$ 300.00
5	Sidewalk, Rem	SYD	50	\$ 10.00	\$ 500.00
6	Sidewalk Grading	STA	1.5	\$ 1,000.00	\$ 1,500.00
7	Subbase, CIP	CYD	100	\$ 12.00	\$ 1,200.00
8	Sidewalk, Conc, 4 inch	SFT	2,100	\$ 4.00	\$ 8,400.00
9	Sidewalk Ramp, Conc, 6 inch	SFT	200	\$ 10.00	\$ 2,000.00
10	Curb Ramp Opening, Conc	FT	30	\$ 30.00	\$ 900.00
11	Pavement Markings	LS	1	\$ 2,000.00	\$ 2,000.00
12	Crosswalk Enhancements	LS	1	\$ 10,000.00	\$ 10,000.00
13	Drainage Modifications	LS	1	\$ 5,000.00	\$ 5,000.00
14	Retaining Wall	SFT	3,000	\$ 50.00	\$ 150,000.00
15	Hand Patching	TON	20	\$ 150.00	\$ 3,000.00
16	Curb and Gutter, Conc, Det F4	FT	160	\$ 20.00	\$ 3,200.00
17	Guardrail, Relocate	FT	160	\$ 10.00	\$ 1,600.00
18	Permanent Signage	LS	1	\$ 500.00	\$ 500.00
19	Decorative Railing/Fencing	FT	160	\$ 25.00	\$ 4,000.00
20	Slope Stabilization	LS	1	\$ 5,000.00	\$ 5,000.00
21	Slope Restoration	SYD	400	\$ 5.00	\$ 2,000.00

Subtotal Estimated Construction Cost: \$ 226,700.00  
 Undeveloped Details & Construction Contingencies (25%): \$ 56,700.00  
Estimated Design & Construction Engineering & Admin (15%): \$ 42,500.00  
**Total Estimated Project Cost (Rounded): \$ 283,400.00**

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**Part 5 - Lake Street to Maple Street, Option 2C - East Side with Buffer**

ITEM NO.	DESCRIPTION	UNIT	TOTAL EST. QUANTITY	EST. UNIT PRICE	EST. TOTAL
1	Mobilization (10%)	LS	1	\$ 27,400.00	\$ 27,400.00
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	1,000	\$ 8.00	\$ 8,000.00
5	Aggregate Base, 8 inch	SYD	50	\$ 10.00	\$ 500.00
6	Hand Patching	TON	25	\$ 150.00	\$ 3,750.00
7	Subbase, CIP	CYD	250	\$ 12.00	\$ 3,000.00
8	Sidewalk, Conc, 4 inch	SFT	11,000	\$ 4.00	\$ 44,000.00
9	Sidewalk Ramp, Conc, 6 inch	SFT	200	\$ 10.00	\$ 2,000.00
10	Curb Ramp Opening, Conc	FT	30	\$ 30.00	\$ 900.00
11	Pavement Markings	LS	1	\$ 2,000.00	\$ 2,000.00
12	Permanent Signage	LS	1	\$ 1,000.00	\$ 1,000.00
13	Slope Stabilization	LS	1	\$ 25,000.00	\$ 25,000.00
14	Drainage Modifications	LS	1	\$ 5,000.00	\$ 5,000.00
15	Retaining Wall	SFT	3,000	\$ 50.00	\$ 150,000.00
16	Guardrail, Relocate	FT	580	\$ 10.00	\$ 5,800.00
17	Decorative Railing/Fencing	FT	580	\$ 25.00	\$ 14,500.00
18	Slope Restoration	SYD	800	\$ 5.00	\$ 4,000.00

Subtotal Estimated Construction Cost: \$ 301,900.00  
 Undeveloped Details & Construction Contingencies (25%): \$ 75,500.00  
 Estimated Design & Construction Engineering & Admin (15%): \$ 56,600.00  
**Total Estimated Project Cost (Rounded): \$ 377,400.00**

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