



Appendix F

Cost Estimates for the
11 Identified Projects

C-SMMPO Complete Streets Plan

**St. Mary's Park Bike/Trail Routes
Alternative A**

Roadway Costs						
Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	10' Shared Use Path	MILE	2.8	\$ 833,333.33	\$ 2,327,967.17	10' wide path, 14,750 LF
	14' Off-Road Gravel Path through Utility Corridors	MILE	12.4	\$ 875,000.00	\$ 10,871,212.12	14' wide path, 65,600 LF
	6' Sidewalk	MILE	2.4	\$ 224,400.00	\$ 538,262.50	6' wide sidewalk, 12,665 LF
	Continental Crosswalks	LANE	10	\$ 450.00	\$ 4,500.00	
	HAWK Pedestrian Signal	EA	1	\$ 100,000.00	\$ 100,000.00	
Subtotal 1					\$ 13,841,941.79	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 5,536,776.72	40% of Subtotal 1
	Category 3: Drainage		35%		\$ 4,844,679.63	35% of Subtotal 1
	Category 7: Landscaping		7%		\$ 968,935.93	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 2,076,291.27	15% of Subtotal 1
Subtotal 2					\$ 27,268,625.33	
	Contingency		40%		\$ 10,907,450.13	40% of Subtotal 2
	Property Acquisition		13%		\$ 3,544,921.29	13% of Subtotal 2
Order of Magnitude Cost					\$ 41,720,996.76	
Rounded Value					\$ 41,800,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
 2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.
 3. HAWK Pedestrian Signal unit cost is from the Brooklyn Park Pedestrian & Bicycle Plan.

C-SMMPO Complete Streets Plan

**St. Mary's Park Bike/Trail Routes
Alternative B**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	10' Shared Use Path	MILE	2.9	\$ 833,333.33	\$ 2,443,181.82	10' wide path, 15,480 LF
	14' Off-Road Gravel Path through Utility Corridors	MILE	11.6	\$ 875,000.00	\$ 10,123,816.29	14' wide path, 61,090 LF
	6' Sidewalk	MILE	3.5	\$ 224,400.00	\$ 782,000.00	6' wide sidewalk, 12,665 LF
	10' Roadway Widening	LANE-MI	5.8	\$ 1,800,000.00	\$ 10,454,545.45	2 Bike Lanes, 18,400 LF
	Continental Crosswalks	LANE	16	\$ 450.00	\$ 7,200.00	
	HAWK Pedestrian Signal	EA	2	\$ 100,000.00	\$ 200,000.00	
Subtotal 1					\$ 24,010,743.56	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 9,604,297.42	40% of Subtotal 1
	Category 3: Drainage		35%		\$ 8,403,760.25	35% of Subtotal 1
	Category 7: Landscaping		7%		\$ 1,680,752.05	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 3,601,611.53	15% of Subtotal 1
Subtotal 2					\$ 47,301,164.81	
	Contingency		40%		\$ 18,920,465.93	40% of Subtotal 2
	Property Acquisition		13%		\$ 6,149,151.43	13% of Subtotal 2
Order of Magnitude Cost					\$ 72,370,782.17	
Rounded Value					\$ 72,400,000.00	

- NOTES:
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 2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.
 3. HAWK Pedestrian Signal unit cost is from the Brooklyn Park Pedestrian & Bicycle Plan.

C-SMMPO Complete Streets Plan

**Three Notch Trail and Linkages
Design Alternative**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	10' Shared Use Path	MILE	0.90	\$ 833,333.33	\$ 747,316.92	10' wide path, 4,735 LF
	Continental Crosswalks	LANE	35	\$ 450.00	\$ 15,750.00	
Subtotal 1					\$ 763,066.92	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 305,226.77	40% of Subtotal 1
	Category 3: Drainage		25%		\$ 190,766.73	25% of Subtotal 1
	Category 7: Landscaping		7%		\$ 53,414.68	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 114,460.04	15% of Subtotal 1
Subtotal 2					\$ 1,426,935.14	
	Contingency		40%		\$ 570,774.06	40% of Subtotal 2
	Property Acquisition		0%		\$ -	0% of Subtotal 2
Order of Magnitude Cost					\$ 1,997,709.19	
Rounded Value					\$ 2,000,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan
Tulagi Place / Naval Air Station Patuxent River
Alternative A

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	10' Shared Use Path	MILE	0.22	\$ 833,333.33	\$ 183,080.81	10' wide path, 1,160 LF
	Continental Crosswalks	LANE	23	\$ 450.00	\$ 10,350.00	
	Monolithic Concrete Median - 4' Wide	LF	100	\$ 147.00	\$ 14,700.00	SHA July 2021 Price Index
	Traffic Signal Modification - Per Leg	EA	2	\$ 65,000.00	\$ 130,000.00	
	HAWK Pedestrian Signal	EA	1	\$ 100,000.00	\$ 100,000.00	
Subtotal 1					\$ 438,130.81	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 175,252.32	40% of Subtotal 1
	Category 3: Drainage		15%		\$ 65,719.62	15% of Subtotal 1
	Category 7: Landscaping		7%		\$ 30,669.16	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 65,719.62	15% of Subtotal 1
Subtotal 2					\$ 775,491.53	
	Contingency		40%		\$ 310,196.61	40% of Subtotal 2
	Property Acquisition		0%		\$ -	0% of Subtotal 2
Order of Magnitude Cost					\$ 1,085,688.14	
Rounded Value					\$ 1,100,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.
3. The HAWK Pedestrian Signal cost was found on the Brooklyn Park Pedestrian & Bicycle Plan

C-SMMPO Complete Streets Plan
Tulagi Place / Naval Air Station Patuxent River
Alternative B

Roadway Costs						
Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	10' Shared Use Path	MILE	0.23	\$ 833,333.33	\$ 189,393.94	10' wide path, 1,200 LF
	Continental Crosswalks	LANE	22	\$ 450.00	\$ 9,900.00	
	Monolithic Concrete Median - 4' Wide	LF	100	\$ 147.00	\$ 14,700.00	SHA July 2021 Price Index
	Curb and Gutter	LF	140	\$ 35.00	\$ 4,900.00	SHA July 2021 Price Index, Free Flow Right Turn Removal
	Traffic Signal Modification - Per Leg	EA	2	\$ 65,000.00	\$ 130,000.00	
	HAWK Pedestrian Signal	EA	1	\$ 100,000.00	\$ 100,000.00	
Subtotal 1					\$ 448,893.94	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 179,557.58	40% of Subtotal 1
	Category 3: Drainage		15%		\$ 67,334.09	15% of Subtotal 1
	Category 7: Landscaping		7%		\$ 31,422.58	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 67,334.09	15% of Subtotal 1
Subtotal 2					\$ 794,542.27	
	Contingency		40%		\$ 317,816.91	40% of Subtotal 2
	Property Acquisition		0%		\$ -	0% of Subtotal 2
Order of Magnitude Cost					\$ 1,112,359.18	
Rounded Value					\$ 1,200,000.00	

- NOTES:
1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
 2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.
 3. The HAWK Pedestrian Signal cost was found on the Brooklyn Park Pedestrian & Bicycle Plan

C-SMMPO Complete Streets Plan

**FDR Boulevard / Shangri-La Drive
Alternative A**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	10' Shared Use Path	MILE	1.8	\$ 833,333.33	\$ 1,483,585.86	10' wide path, 9,400 LF
	6' Sidewalk	MILE	1.3	\$ 224,400.00	\$ 297,500.00	6' wide sidewalk, 7,000 LF
	New Roadway	LANE-MI	1.9	\$ 1,800,000.00	\$ 3,364,772.73	Two 12' Travel Lanes, 4,935 LF
	Continental Crosswalks	LANE	91	\$ 450.00	\$ 40,950.00	
	Curb and Gutter - Grass Median	LF	2,150	\$ 35.00	\$ 75,250.00	SHA July 2021 Price Index, 10' wide grass median
	Traffic Signal Modification - Per Leg	EA	1	\$ 65,000.00	\$ 65,000.00	Pegg Road Intersection
	Lighting	MILE	0.93	\$ 1,408,000.00	\$ 1,316,000.00	Pegg Road to Great Mills Road
	Signing	MILE	0.93	\$ 17,600.00	\$ 16,450.00	Pegg Road to Great Mills Road
Subtotal 1					\$ 6,659,508.59	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 2,663,803.43	40% of Subtotal 1
	Category 3: Drainage		35%		\$ 2,330,828.01	35% of Subtotal 1
	Category 7: Landscaping		7%		\$ 466,165.60	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 998,926.29	15% of Subtotal 1
Subtotal 2					\$ 13,119,231.91	
	Contingency		40%		\$ 5,247,692.77	40% of Subtotal 2
	Property Acquisition		13%		\$ 1,705,500.15	13% of Subtotal 2
Order of Magnitude Cost					\$ 20,072,424.83	
Rounded Value					\$ 20,100,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan

**FDR Boulevard / Shangri-La Drive
Alternative B**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	10' Shared Use Path	MILE	1.9	\$ 833,333.33	\$ 1,562,500.00	10' wide path, 9,900 LF
	6' Sidewalk	MILE	1.4	\$ 224,400.00	\$ 318,750.00	6' wide sidewalk, 7,500 LF
	New Roadway	LANE-MI	1.9	\$ 1,800,000.00	\$ 3,409,090.91	Two 12' Travel Lanes, 5,000 LF
	Continental Crosswalks	LANE	87	\$ 450.00	\$ 39,150.00	
	Curb and Gutter - Grass Median	LF	2,150	\$ 35.00	\$ 75,250.00	SHA July 2021 Price Index, 10' wide grass median
	Curb and Gutter - Roundabout	LF	630	\$ 35.00	\$ 22,050.00	SHA July 2021 Price Index, 50' radius
	Traffic Signal Modification - Per Leg	EA	1	\$ 65,000.00	\$ 65,000.00	Pegg Road Intersection
	Lighting	MILE	0.95	\$ 1,408,000.00	\$ 1,333,333.33	Pegg Road to Great Mills Road
	Signing	MILE	0.95	\$ 17,600.00	\$ 16,666.67	Pegg Road to Great Mills Road
	Subtotal 1				\$ 6,841,790.91	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 2,736,716.36	40% of Subtotal 1
	Category 3: Drainage		35%		\$ 2,394,626.82	35% of Subtotal 1
	Category 7: Landscaping		7%		\$ 478,925.36	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 1,026,268.64	15% of Subtotal 1
	Subtotal 2				\$ 13,478,328.09	
	Contingency		40%		\$ 5,391,331.24	40% of Subtotal 2
	Property Acquisition		13%		\$ 1,752,182.65	13% of Subtotal 2
	Order of Magnitude Cost				\$ 20,621,841.98	
	Rounded Value				\$ 20,700,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan

**Great Mills Corridor
Alternative A**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	10' Shared Use Path	MILE	3.3	\$ 833,333.33	\$ 2,710,700.76	10' wide path, 17,175 LF
	6' Sidewalk	MILE	2.4	\$ 224,400.00	\$ 534,437.50	6' wide sidewalk, 12,575 LF
	Continental Crosswalks	LANE	130	\$ 450.00	\$ 58,500.00	
	Curb and Gutter - Grass Median	LF	21,960	\$ 35.00	\$ 768,600.00	SHA July 2021 Price Index, 10' wide grass median
	Subtotal 1				\$ 4,072,238.26	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 1,628,895.30	40% of Subtotal 1
	Category 3: Drainage		35%		\$ 1,425,283.39	35% of Subtotal 1
	Category 7: Landscaping		7%		\$ 285,056.68	7% of Subtotal 1
	Category 8: Utilities		25%		\$ 1,018,059.56	25% of Subtotal 1
	Subtotal 2				\$ 8,429,533.19	
	Contingency		40%		\$ 3,371,813.28	40% of Subtotal 2
	Property Acquisition		13%		\$ 1,095,839.32	13% of Subtotal 2
	Order of Magnitude Cost				\$ 12,897,185.79	
	Rounded Value				\$ 12,900,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan

**Great Mills Corridor
Alternative B**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	10' Shared Use Path	MILE	3.4	\$ 833,333.33	\$ 2,821,180.56	10' wide path, 17,875 LF
	6' Sidewalk	MILE	3.3	\$ 224,400.00	\$ 744,175.00	6' wide sidewalk, 17,510 LF
	Roadway	LANE-MI	0.97	\$ 1,800,000.00	\$ 1,748,863.64	2 Lanes, 2,565 LF
	Continental Crosswalks	LANE	162	\$ 450.00	\$ 72,900.00	
	Curb and Gutter - Grass Median	LF	21,960	\$ 35.00	\$ 768,600.00	SHA July 2021 Price Index, 10' wide grass median
Subtotal 1					\$ 6,155,719.19	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 2,462,287.68	40% of Subtotal 1
	Category 3: Drainage		35%		\$ 2,154,501.72	35% of Subtotal 1
	Category 7: Landscaping		7%		\$ 430,900.34	7% of Subtotal 1
	Category 8: Utilities		25%		\$ 1,538,929.80	25% of Subtotal 1
Subtotal 2					\$ 12,742,338.73	
	Contingency		40%		\$ 5,096,935.49	40% of Subtotal 2
	Property Acquisition		13%		\$ 1,656,504.03	13% of Subtotal 2
Order of Magnitude Cost					\$ 19,495,778.25	
Rounded Value					\$ 19,500,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan

**Cove Point Park Trail
Design Alternative**

COMPLETE STREET PLAN RECOMMENDATION COSTS

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
RECOMMENDATION 1						
	10' Shared Use Path	MILE	0.07	\$ 833,333.33	\$ 59,185.61	10' wide path, 375 LF
Recommendation 1 Subtotal					\$ 59,185.61	
RECOMMENDATION 2						
	10' Shared Use Path	MILE	1.0	\$ 833,333.33	\$ 833,333.33	10' wide path, 5,280 LF
	Continental Crosswalks	LANE	4	\$ 450.00	\$ 1,800.00	
Recommendation 2 Subtotal					\$ 835,133.33	
RECOMMENDATION 3						
	Continental Crosswalks	LANE	16	\$ 450.00	\$ 7,200.00	
Recommendation 3 Subtotal					\$ 7,200.00	
RECOMMENDATION 4						
	10' Shared Use Path	MILE	0.08	\$ 833,333.33	\$ 68,655.30	10' wide path, 435 LF
Recommendation 4 Subtotal					\$ 68,655.30	
RECOMMENDATION 5						
						RECOMMENDATION ASSUMED TO NOT ADD COST
Recommendation 5 Subtotal					\$ -	
RECOMMENDATION 6						
	Monolithic Concrete Median - 4' Wide	LF	78	\$ 147.00	\$ 11,466.00	SHA July 2021 Price Index - Assume 10' Radius
Recommendation 6 Subtotal					\$ 11,466.00	
Subtotal 1					\$ 981,640.24	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 392,656.10	40% of Subtotal 1
	Category 3: Drainage		15%		\$ 147,246.04	15% of Subtotal 1
	Category 7: Landscaping		7%		\$ 68,714.82	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 147,246.04	15% of Subtotal 1
Subtotal 2					\$ 1,737,503.23	
	Contingency		40%		\$ 695,001.29	40% of Subtotal 2
	Property Acquisition		0%		\$ -	0% of Subtotal 2
Order of Magnitude Cost					\$ 2,432,504.52	
Rounded Value					\$ 2,500,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan

**Appeal Lane Sidewalk
Alternative A**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	6' Sidewalk	MILE	0.74	\$ 224,400.00	\$ 166,600.00	6' wide sidewalk, 3,920 LF
	Continental Crosswalks	LANE	8	\$ 450.00	\$ 3,600.00	
Subtotal 1					\$ 170,200.00	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 68,080.00	40% of Subtotal 1
	Category 3: Drainage		15%		\$ 25,530.00	15% of Subtotal 1
	Category 7: Landscaping		7%		\$ 11,914.00	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 25,530.00	15% of Subtotal 1
Subtotal 2					\$ 301,254.00	
	Contingency		40%		\$ 120,501.60	40% of Subtotal 2
	Property Acquisition		13%		\$ 39,163.02	13% of Subtotal 2
Order of Magnitude Cost					\$ 460,918.62	
Rounded Value					\$ 500,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan

**Appeal Lane Sidewalk
Alternative B**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	5' Sidewalk	MILE	1.2	\$ 224,400.00	\$ 258,825.00	6' wide sidewalk, 6,090 LF
	Continental Crosswalks	LANE	18	\$ 450.00	\$ 8,100.00	
	Traffic Signal Modification - Per Leg	EA	2	\$ 65,000.00	\$ 130,000.00	
Subtotal 1					\$ 396,925.00	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 158,770.00	40% of Subtotal 1
	Category 3: Drainage		15%		\$ 59,538.75	15% of Subtotal 1
	Category 7: Landscaping		7%		\$ 27,784.75	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 59,538.75	15% of Subtotal 1
Subtotal 2					\$ 702,557.25	
	Contingency		40%		\$ 281,022.90	40% of Subtotal 2
	Property Acquisition		13%		\$ 91,332.44	13% of Subtotal 2
Order of Magnitude Cost					\$ 1,074,912.59	
Rounded Value					\$ 1,100,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan

**Lusby Parkway
Alternative A**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	6' Sidewalk	MILE	4.5	\$ 224,400.00	\$ 1,014,900.00	6' wide sidewalk, 23,880 LF
	New Roadway	LANE-MI	6.4	\$ 1,800,000.00	\$ 11,532,818.86	Two 12' Travel Lanes, Two 5' Bike Lanes, 11,940 LF
	Continental Crosswalks	LANE	60	\$ 450.00	\$ 27,000.00	
	New Traffic Signal - Mast Arms	EA	2	\$ 250,000.00	\$ 500,000.00	Southern Connector Blvd and Rousby Hall Rd Intersections
	Lighting	MILE	2.3	\$ 1,408,000.00	\$ 3,184,000.00	
	Signing	MILE	2.3	\$ 17,600.00	\$ 39,800.00	
Subtotal 1					\$ 16,298,518.86	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 6,519,407.55	40% of Subtotal 1
	Category 3: Drainage		35%		\$ 5,704,481.60	35% of Subtotal 1
	Category 7: Landscaping		7%		\$ 1,140,896.32	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 2,444,777.83	15% of Subtotal 1
Subtotal 2					\$ 32,108,082.16	
	Contingency		40%		\$ 12,843,232.86	40% of Subtotal 2
	Property Acquisition		13%		\$ 4,174,050.68	13% of Subtotal 2
Order of Magnitude Cost					\$ 49,125,365.71	
Rounded Value					\$ 49,200,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
 2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan

**Lusby Parkway
Alternative B**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	10' Shared Use Path	MILE	2.3	\$ 833,333.33	\$ 1,884,469.70	10' wide path, 11,940 LF
	6' Sidewalk	MILE	2.3	\$ 224,400.00	\$ 507,450.00	6' wide sidewalk, 11,940 LF
	New Roadway	LANE-MI	4.5	\$ 1,800,000.00	\$ 8,140,909.09	Two 12' Travel Lanes, Two 5' Bike Lanes, 11,940 LF
	Continental Crosswalks	LANE	60	\$ 450.00	\$ 27,000.00	
	New Traffic Signal - Mast Arms	EA	2	\$ 250,000.00	\$ 500,000.00	Southern Connector Blvd and Rousby Hall Rd Intersections
	Lighting	MILE	2.3	\$ 1,408,000.00	\$ 3,184,000.00	
	Signing	MILE	2.3	\$ 17,600.00	\$ 39,800.00	
Subtotal 1					\$ 14,283,628.79	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 5,713,451.52	40% of Subtotal 1
	Category 3: Drainage		35%		\$ 4,999,270.08	35% of Subtotal 1
	Category 7: Landscaping		7%		\$ 999,854.02	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 2,142,544.32	15% of Subtotal 1
Subtotal 2					\$ 28,138,748.71	
	Contingency		40%		\$ 11,255,499.48	40% of Subtotal 2
	Property Acquisition		13%		\$ 3,658,037.33	13% of Subtotal 2
Order of Magnitude Cost					\$ 43,052,285.53	
Rounded Value					\$ 43,100,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan

**Dowell Road Sidewalk Extension
Design Alternative**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	6' Sidewalk	MILE	0.31	\$ 224,400.00	\$ 68,850.00	6' wide sidewalk, 1,620 LF
	Roadway	LANE-MI	0.64	\$ 1,800,000.00	\$ 1,154,247.78	2 Travel Lanes, 2 Bike Lanes, 1,195 LF
	Continental Crosswalks	LANE	7	\$ 450.00	\$ 3,150.00	
Subtotal 1					\$ 1,226,247.78	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 490,499.11	40% of Subtotal 1
	Category 3: Drainage		15%		\$ 183,937.17	15% of Subtotal 1
	Category 7: Landscaping		7%		\$ 85,837.34	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 183,937.17	15% of Subtotal 1
Subtotal 2					\$ 2,170,458.58	
	Contingency		40%		\$ 868,183.43	40% of Subtotal 2
	Property Acquisition		0%		\$ -	0% of Subtotal 2
Order of Magnitude Cost					\$ 3,038,642.01	
Rounded Value					\$ 3,100,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan

**Patuxent Parkway Crosswalks
Alternative A**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	6' Sidewalk	MILE	0.07	\$ 224,400.00	\$ 14,875.00	6' wide sidewalk, 350 LF
	Continental Crosswalks	LANE	10	\$ 450.00	\$ 4,500.00	
	Traffic Signal Modification - Per Leg	EA	1	\$ 65,000.00	\$ 65,000.00	
Subtotal 1					\$ 84,375.00	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 33,750.00	40% of Subtotal 1
	Category 3: Drainage		15%		\$ 12,656.25	15% of Subtotal 1
	Category 7: Landscaping		7%		\$ 5,906.25	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 12,656.25	15% of Subtotal 1
Subtotal 2					\$ 149,343.75	
	Contingency		40%		\$ 59,737.50	40% of Subtotal 2
	Property Acquisition		0%		\$ -	0% of Subtotal 2
Order of Magnitude Cost					\$ 209,081.25	
Rounded Value					\$ 300,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan

**Patuxent Parkway Crosswalks
Alternative B**

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	10' Shared Use Path	MILE	0.07	\$ 833,333.33	\$ 55,239.90	10' wide path, 350 LF
	Continental Crosswalks	LANE	10	\$ 450.00	\$ 4,500.00	
	Traffic Signal Modification - Per Leg	EA	1	\$ 65,000.00	\$ 65,000.00	
Subtotal 1					\$ 124,739.90	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 49,895.96	40% of Subtotal 1
	Category 3: Drainage		15%		\$ 18,710.98	15% of Subtotal 1
	Category 7: Landscaping		7%		\$ 8,731.79	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 18,710.98	15% of Subtotal 1
Subtotal 2					\$ 220,789.62	
	Contingency		40%		\$ 88,315.85	40% of Subtotal 2
	Property Acquisition		0%		\$ -	0% of Subtotal 2
Order of Magnitude Cost					\$ 309,105.47	
Rounded Value					\$ 400,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.

C-SMMPO Complete Streets Plan
Solomons Island Sidewalk Phase 2
Design Alternative

Roadway Costs

Item No.	Description	Unit	Quantity	Unit Cost	Total Cost	Notes
	5' Sidewalk	MILE	0.09	\$ 217,800.00	\$ 18,975.00	5' wide sidewalk, 460 LF
	Continental Crosswalks	LANE	2	\$ 450.00	\$ 900.00	
Subtotal 1					\$ 19,875.00	
Contingent Categories						
	Category 1: Preliminary, MOT		40%		\$ 7,950.00	40% of Subtotal 1
	Category 3: Drainage		15%		\$ 2,981.25	15% of Subtotal 1
	Category 7: Landscaping		7%		\$ 1,391.25	7% of Subtotal 1
	Category 8: Utilities		15%		\$ 2,981.25	15% of Subtotal 1
Subtotal 2					\$ 35,178.75	
	Contingency		40%		\$ 14,071.50	40% of Subtotal 2
	Property Acquisition		0%		\$ -	0% of Subtotal 2
Order of Magnitude Cost					\$ 49,250.25	
Rounded Value					\$ 100,000.00	

- NOTES: 1. All unit costs are from the 2017 MDOTSHA Cost Estimating Manual unless otherwise noted.
2. The Property Acquisition values within this feasibility level cost estimate are approximate and subject to change.