

Appendix F: Construction Cost Estimate

A preliminary construction cost estimate was developed for the preferred conceptual design. Pay items were identified and rough quantity take-offs were developed. Unit costs were assigned based on historical cost data from the District of Columbia, DDOT and other sources. It is assumed that each phase will be a separate construction contract. Costs are based on 2010 dollars with a 20% contingency applied to total cost for each phase. The estimate does not include further costs for engineering design or acquisition of any right-of-way or easements. As previously stated the estimate was broken into the anticipated design phases. A more detailed breakdown of the cost estimate is located in the following tables.

Physical Improvements 10% Concept Design Cost Estimates Summary	
Section	Total
1st Place NE: Riggs Road to WMATA Property	\$760,000
WMATA Property	\$1,720,000
Galloway Street NE: WMATA Property to South Dakota Avenue	\$440,000
Wayfinding Signs	\$10,000
	\$2,930,000
Note:	
-This cost estimate is a planning level estimate only.	
-The WMATA Property Section could include additional \$600k in optional plaza amenities (see 'WMATA Property' estimate for more details)	

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1st Place, NE Section: Riggs Road to WMATA Property
Physical Improvements 10% Concept Design Cost Estimate

Item	Unit	Quantity	2010 Unit Cost	Total Cost
Earthwork, Excavation, Grading	CY	507	\$15.00	\$7,602
Milling	SY	1,728	\$6.00	\$10,367
Remove Curb and Gutter	LF	1,110	\$10.00	\$11,100
Asphalt	TON	395	\$60.00	\$23,700
Aggregate Base Course	CY	58	\$50.00	\$2,886
Reinforced Concrete	SY	131	\$70.00	\$9,178
Generic Utility Pole Demolition	EA	7	\$2,350.00	\$16,450
Curb and Gutter	LF	1,260	\$55.00	\$69,300
Concrete Sidewalk (4" Thickness)	SF	13,150	\$5.00	\$65,750
Thermoplastic Pavement Marking (all widths up to 24")	LF	1,305	\$3.00	\$3,915
24" Thermoplastic Pavement Marking	LF	470	\$10.00	\$4,700
Thermoplastic Pavement Marking (Symbol or Text)	EA	11	\$250.00	\$2,750
Standard Catch Basin	EA	4	\$3,000.00	\$12,000
15" RCP	LF	75	\$30.00	\$2,250
Pedestrian Light Pole and Fixture	EA	12	\$6,000.00	\$72,000
Street Tree	EA	20	\$1,000.00	\$20,000
ADA Detective Warning Material	SF	42	\$8.00	\$336
New Utility Pole	EA	7	\$10,000.00	\$70,000
Utility Cover Adjustment	EA	26	\$500.00	\$13,000
Fire Hydrant Adjustment	EA	2	\$1,500.00	\$3,000
Seed and Mulch	SY	691	\$3.00	\$2,073
Lump Sum Items				
Landscaping (5%)	LS	1.00	\$21,118.00	\$21,118
Traffic Items (5%)	LS	1.00	\$21,118.00	\$21,118
E&S (5%)	LS	1.00	\$21,118.00	\$21,118
Maintenance of Traffic (10%)	LS	1.00	\$42,236.00	\$42,236
Additional Utility Adjustments (10%)	LS	1.00	\$42,236.00	\$42,236
			Subtotal	\$570,183
Mobilization (10%)	LS	1.00	\$57,018.00	\$57,018
			Subtotal	\$627,201

20% Contingency \$125,440
Total Estimated Cost \$752,641

Note: This cost estimate is a planning level estimate only.

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WMATA Property Section

Physical Improvements 10% Concept Design Cost Estimate

Item	Unit	Quantity	2010 Unit Cost	Total Cost
Earthwork, Excavation, Grading	CY	1,255	\$15.00	\$18,822
Milling	SY	9,607	\$6.00	\$57,641
Generic Utility Pole Demolition	EA	13	\$2,350.00	\$30,550
Remove Curb and Gutter	LF	2,105	\$10.00	\$21,050
Remove Fence/Railing	LF	800	\$3.00	\$2,400
Asphalt	TON	1,373	\$60.00	\$82,380
Aggregate Base	CY	634	\$50.00	\$31,704
Curb and Gutter	LF	3,670	\$55.00	\$201,850
Concrete Sidewalk (4" Thickness)	SF	21,365	\$5.00	\$106,825
Thermoplastic Pavement Marking (all widths up to 24")	LF	4,832	\$3.00	\$14,496
24" Thermoplastic Pavement Marking	LF	490	\$10.00	\$4,900
Thermoplastic Pavement Marking (Symbol or Text)	EA	36	\$250.00	\$9,000
Standard Catch Basin	EA	9	\$3,000.00	\$27,000
15" RCP	LF	100	\$30.00	\$3,000
Pedestrian Light Pole and Fixture	EA	19	\$6,000.00	\$114,000
Street Tree	EA	17	\$1,000.00	\$17,000
ADA Detective Warning Material	SF	60	\$8.00	\$480
New Utility Pole	EA	13	\$10,000.00	\$130,000
Utility Cover Adjustment	EA	15	\$500.00	\$7,500
Seed and Mulch	SY	616	\$3.00	\$1,847
Rain Garden	SF	2,600	\$30.00	\$78,000
Lump Sum Items				
Roadway Landscaping (5%)	LS	1.00	\$48,022.00	\$48,022
Traffic Items (5%)	LS	1.00	\$48,022.00	\$48,022
E&S (5%)	LS	1.00	\$48,022.00	\$48,022
Maintenance of Traffic (10%)	LS	1.00	\$96,045.00	\$96,045
Additional Utility Adjustments (10%)	LS	1.00	\$96,045.00	\$96,045
			Subtotal	\$1,296,601
Mobilization (10%)	LS	1.00	\$129,660.00	\$129,660
			Subtotal	\$1,426,261

20% Contingency \$285,252
Total Estimated Cost \$1,711,513

Note: This cost estimate is a planning level estimate only.

Optional Plaza Items

Item	Unit	Quantity	2010 Unit Cost	Total Cost
Concrete Pavers	SY	2,944	\$90.00	\$265,000
Secure Bicycle Parking (Modular unit for 36 bikes)	LS	1.00	\$90,000.00	\$90,000
Plaza Landscape Space	LS	1.00	\$22,200.00	\$22,200
Lump Sum Items				
E&S (5%)	LS	1.00	\$18,860.00	\$18,860
Maintenance of Traffic (10%)	LS	1.00	\$37,720.00	\$37,720
Additional Utility Adjustments (10%)	LS	1.00	\$37,720.00	\$37,720
			Subtotal	\$471,500
Mobilization (10%)	LS	1.00	\$47,150.00	\$47,150
			Subtotal	\$518,650

20% Contingency \$103,730
Total Estimated Cost for Optional Items \$622,380

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**Galloway Street, NE Section: WMATA Property to South Dakota Avenue
Physical Improvements 10% Concept Design Cost Estimate**

Item	Unit	Quantity	2010 Unit Cost	Total Cost
Earthwork, Excavation, Grading	CY	267	\$15.00	\$4,002
Milling	SY	2,267	\$6.00	\$13,600
Asphalt	TON	375	\$60.00	\$22,500
Aggregate Base Course	CY	46	\$50.00	\$2,319
Reinforced Concrete	SY	278	\$70.00	\$19,483
Concrete Sidewalk (4" Thickness)	SF	6,645	\$5.00	\$33,225
Thermoplastic Pavement Marking (all widths up to 24")	LF	990	\$3.00	\$2,970
24" Thermoplastic Pavement Marking	LF	240	\$10.00	\$2,400
Thermoplastic Pavement Marking (Symbol or Text)	EA	6	\$300.00	\$1,800
ADA Detective Warning Material	SF	12	\$8.00	\$96
Utility Cover Adjustment	EA	18	\$500.00	\$9,000
Retaining Wall	SF	2,250	\$60.00	\$135,000
Lump Sum Items				
Landscaping (5%)	LS	1.00	\$12,320.00	\$12,320
Traffic Items (5%)	LS	1.00	\$12,320.00	\$12,320
E&S (5%)	LS	1.00	\$12,320.00	\$12,320
Maintenance of Traffic (10%)	LS	1.00	\$24,640.00	\$24,640
Additional Utility Adjustments (10%)	LS	1.00	\$24,640.00	\$24,640
			Subtotal	\$332,635
Mobilization (10%)	LS	1.00	\$33,264.00	\$33,264
			Subtotal	\$365,899

20% Contingency \$73,180
Total Estimated Cost \$439,079

Note: This cost estimate is a planning level estimate only.

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Wayfinding Signage

Physical Improvements 10% Concept Design Cost Estimate

Item	Unit	Quantity	2010 Unit Cost	Total Cost
Sign Panel	SF	121	\$15.00	\$1,818
Sign Post	LF	150	\$20.00	\$3,000
Lump Sum Items				
Maintenance of Traffic (5%)	LS	1.00	\$241.00	\$241
			Subtotal	\$5,059
Mobilization (10%)	LS	1.00	\$506.00	\$506
			Subtotal	\$5,565

20% Contingency	\$1,113
Total Estimated Cost	\$6,678

Note: This cost estimate is a planning level estimate only.