

BL-0027 Crabtree Creek Greenway at Lassiter Mill

Project Location: Raleigh, NC
 Project Description: 10' Paved Greenway, Boardwalk, and Stream Restoration
 Client: City of Raleigh
 Client Project No. SPR-0081-2025

ENGINEER'S OPINION OF PROBABLE COST OF CONSTRUCTION - 100% Design

Base Bid							
#	Section	Item Code	Item Description	Quantity	Unit	Unit Price	Cost
1	800	0000100000-N	MOBILIZATION	1	LS	\$ 202,900.00	\$ 202,900.00
2	801	0000400000-N	CONSTRUCTION SURVEYING	1	LS	\$ 25,500.00	\$ 25,500.00
3	SP	0000900000-N	AS-CONSTRUCTED SURVEY	1	LS	\$ 15,300.00	\$ 15,300.00
4	SP	0000915000-N	COLLAPSIBLE BOLLARD (INSTALL)	2	EA	\$ 1,200.00	\$ 2,400.00
5	SP	0000915000-N	PERMANENT BOLLARD (INSTALL)	4	EA	\$ 800.00	\$ 3,200.00
6	226	0043000000-N	GRADING	1	LS	\$ 475,000.00	\$ 475,000.00
7	225	0036000000-E	UNDERCUT EXCAVATION	40	CY	\$ 25.00	\$ 1,000.00
8	310	0448000000-E	12" RC PIPE CULVERTS, CLASS IV	24	LF	\$ 130.00	\$ 3,120.00
9	310	0448200000-E	15" RC PIPE CULVERTS, CLASS IV	32	LF	\$ 125.00	\$ 4,000.00
10	310	0448300000-E	18" RC PIPE CULVERTS, CLASS IV	112	LF	\$ 130.00	\$ 14,560.00
11	310	0448400000-E	24" RC PIPE CULVERTS, CLASS IV	8	LF	\$ 160.00	\$ 1,280.00
12	SP	1891000000-E	GEOTEXTILE SEPARATOR FABRIC	990	SY	\$ 6.25	\$ 6,187.50
13	520	1121000000-E	AGGREGATE BASE COURSE	310	TON	\$ 58.00	\$ 17,980.00
14	610	1519000000-E	ASPHALT CONC SURFACE COURSE, TYPE S9.5B	80	TON	\$ 150.00	\$ 12,000.00
15	620	1575000000-E	ASPHALT BINDER FOR PLANT MIX	5	TON	\$ 700.00	\$ 3,500.00
16	840	2286000000-N	MASONRY DRAINAGE STRUCTURES	1	EA	\$ 7,250.00	\$ 7,250.00
17	840	2308000000-E	MASONRY DRAINAGE STRUCTURES	2	LF	\$ 1,250.00	\$ 2,500.00
18	840	2374000000-N	FRAME WITH GRATE & HOOD, STD 840.03, TYPE 'E'	1	EA	\$ 1,300.00	\$ 1,300.00
19	SP	2473000000-N	CIP TRENCH DRAIN WITH GRATE	22	EA	\$ 1,000.00	\$ 22,000.00
20	846	2538000000-E	2'-0" CONCRETE CURB & GUTTER	200	LF	\$ 35.00	\$ 7,000.00
21	846	2549000000-E	2'-6" CONCRETE CURB & GUTTER	530	LF	\$ 45.00	\$ 23,850.00
22	848	2591000000-E	4" CONCRETE SIDEWALK	570	SY	\$ 72.00	\$ 41,040.00
23	848	2605000000-N	CONCRETE CURB RAMPS	4	EA	\$ 3,100.00	\$ 12,400.00
24	SP	2738000000-E	4.5" CONCRETE TRAIL	520	SY	\$ 115.00	\$ 59,800.00
25	SP	2738000000-E	4.5" CONCRETE TRAIL WITH TURNDOWN	230	SY	\$ 150.00	\$ 34,500.00
26	SP	2745000000-E	SAND LIGHTWEIGHT CONCRETE	20	CY	\$ 2,150.00	\$ 43,000.00
27	SP	3575000000-E	METAL SAFETY RAIL	720	LF	\$ 100.00	\$ 72,000.00
28	SP	3575000000-E	WHITE VINYL FENCE	210	LF	\$ 35.00	\$ 7,350.00
29	SP	3575000000-E	BRIDGE MOUNTED FENCING	180	LF	\$ 100.00	\$ 18,000.00
30	876	3628000000-E	RIP RAP, CLASS I	15	TON	\$ 80.00	\$ 1,200.00
31	876	3635000000-E	RIP RAP, CLASS II	580	TON	\$ 95.00	\$ 55,100.00
32	876	3656000000-E	GEOTEXTILE FOR DRAINAGE	340	SY	\$ 5.50	\$ 1,870.00
33	SP	3677000000-E	EROSION CONTROL BLANKET	220	SY	\$ 10.00	\$ 2,200.00
34	901	4025000000-E	CONTRACTOR FURNISHED, TYPE E SIGN	7.75	SF	\$ 25.00	\$ 193.75
35	903	4072000000-E	SUPPORTS, 3-LB STEEL U-CHANNEL	27.75	LF	\$ 12.00	\$ 333.00
36	904	4102000000-N	SIGN ERECTION, TYPE E	3	EA	\$ 400.00	\$ 1,200.00
37	904	4116100000-N	SIGN ERECTION, RELOCATE TYPE E (GROUND MOUNTED)	4	EA	\$ 250.00	\$ 1,000.00
38	SP	4360000000-N	RELOCATE HIGH WATER WARNING SIGN	1	EA	\$ 5,000.00	\$ 5,000.00
39	SP	4370000000-N	CITY WAYFINDING PACKAGE	1	LS	\$ 16,320.00	\$ 16,320.00
40	SP	4447000000-E	PEDESTRIAN CHANNELIZING DEVICES	50	LF	\$ 100.00	\$ 5,000.00
41	SP	4457000000-N	TEMPORARY TRAFFIC CONTROL	1	LS	\$ 51,000.00	\$ 51,000.00
42	1266	4520000000-N	TUBULAR MARKERS (FIXED)	20	EA	\$ 120.00	\$ 2,400.00
43	SP	4600000000-N	TEMPORARY CURB RAMP	1	EA	\$ 750.00	\$ 750.00
44	SP	4600000000-N	AUDIBLE WARNING DEVICE	2	EA	\$ 600.00	\$ 1,200.00
45	1205	4685000000-E	THERMOPLASTIC PAVEMENT MARKING LINES (4", 90 MILS)	2567	LF	\$ 3.25	\$ 8,342.75
46	1205	4709000000-E	THERMOPLASTIC PAVEMENT MARKING LINES (24", 90 MILS)	86	LF	\$ 15.00	\$ 1,290.00
47	1205	4720000000-E	THERMOPLASTIC PAVEMENT MARKING CHARACTER (90 MILS)	6	EA	\$ 215.00	\$ 1,290.00
48	1205	4725000000-E	THERMOPLASTIC PAVEMENT MARKING SYMBOL (90 MILS)	14	EA	\$ 300.00	\$ 4,200.00
49	1205	4810000000-E	PAINT PAVEMENT MARKING LINES (4")	144	LF	\$ 2.00	\$ 288.00
50	1205	4850000000-E	REMOVAL OF PAVEMENT MARKING LINES (4")	1200	LF	\$ 1.50	\$ 1,800.00
51	1205	4870000000-E	REMOVAL OF PAVEMENT MARKING LINES (24")	44	LF	\$ 6.00	\$ 264.00
52	1205	4875000000-N	REMOVAL OF PAVEMENT MARKING SYMBOLS & CHARACTERS	9	EA	\$ 65.00	\$ 585.00
53	1510	5325600000-E	6" WATER LINE	25	LF	\$ 140.00	\$ 3,500.00
54	1515	5571600000-E	6" TAPPING SLEEVE & VALVE	1	EA	\$ 5,500.00	\$ 5,500.00
55	1515	5672000000-N	RELOCATE FIRE HYDRANT	1	EA	\$ 7,500.00	\$ 7,500.00

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56	1605	6000000000-E	TEMPORARY SILT FENCE	2310	LF	\$ 5.50	\$ 12,705.00
57	1610	6006000000-E	STONE FOR EROSION CONTROL, CLASS A	115	TON	\$ 75.00	\$ 8,625.00
58	1610	6009000000-E	STONE FOR EROSION CONTROL, CLASS B	235	TON	\$ 80.00	\$ 18,800.00
59	1610	6012000000-E	SEDIMENT CONTROL STONE	65	TON	\$ 60.00	\$ 3,900.00
60	1615	6015000000-E	TEMPORARY MULCHING	0.5	ACR	\$ 2,000.00	\$ 1,000.00
61	1620	6018000000-E	SEED FOR TEMPORARY SEEDING	100	LB	\$ 6.00	\$ 600.00
62	1620	6021000000-E	FERTILIZER FOR TEMPORARY SEEDING	0.5	TON	\$ 1,500.00	\$ 750.00
63	SP	6029000000-E	SAFETY FENCE	200	LF	\$ 3.50	\$ 700.00
64	1631	6036000000-E	MATTING FOR EROSION CONTROL	15000	SY	\$ 3.00	\$ 45,000.00
65	1629	6037000000-E	COIR FIBER MAT	500	SY	\$ 9.00	\$ 4,500.00
66	SP	6038000000-E	PERMANENT SOIL REINFORCEMENT MAT, TYPE 3	27	SY	\$ 10.00	\$ 270.00
67	1632	6042000000-E	1/4" HARDWARE CLOTH	120	LF	\$ 7.00	\$ 840.00
68	1639	6070000000-N	SPECIAL STILLING BASINS	2	EA	\$ 525.00	\$ 1,050.00
69	1642	6071012000-E	COIR FIBER WATTLE	100	LF	\$ 15.00	\$ 1,500.00
70	1660	6084000000-E	SEEDING & MULCHING	3	ACR	\$ 3,000.00	\$ 9,000.00
71	1675	6117000000-N	RESPONSE FOR EROSION CONTROL	25	EA	\$ 750.00	\$ 18,750.00
72	SP	6117500000-N	PREFABRICATED CONCRETE WASHOUT	3	EA	\$ 1,200.00	\$ 3,600.00
73	SP	6118000000-N	CONCRETE WASHOUT STRUCTURE	3	EA	\$ 1,200.00	\$ 3,600.00
74	SP	6132000000-N	SEDIMENT FILTER BAG	2	EA	\$ 1,000.00	\$ 2,000.00
75	SP	6133000000-N	TEMPORARY SHEET PILE AND DEWATERING FOR STREAM RESTORATION	1	LS	\$ 110,000.00	\$ 110,000.00
76	SP	6147000000-E	BOULDER TOE REVETMENT	91	LF	\$ 215.00	\$ 19,565.00
77	SP	6147000000-E	SOIL LIFTS	115	LF	\$ 45.00	\$ 5,175.00
78	SP	6135000000-E	RIPARIAN SEEDING	0.045	ACR	\$ 4,080.00	\$ 183.60
79	SP	6132000000-N	LIVE STAKES	73	EA	\$ 5.50	\$ 401.50
80	SP	6132000000-N	HERBACEOUS PLUGS	164	EA	\$ 3.50	\$ 574.00
81	SP	6135000000-E	STREAM STABILIZATION TEMPORARY SEEDING AND MULCHING	0.045	ACR	\$ 1,000.00	\$ 45.00
82	SP	6147000000-E	TREE PROTECTION FENCE	3190	LF	\$ 4.50	\$ 14,355.00
83	SP	6147000000-E	COMBINATION SILT/TREE PROTECTION FENCE	2410	LF	\$ 5.50	\$ 13,255.00
84	SP	6133000000-N	TEMPORARY SHEET PILE AND DEWATERING FOR BOARDWALK	1	LS	\$ 80,000.00	\$ 80,000.00
85	SP	8063000000-N	PRECAST REINFORCED CONC BOX CULVERT AT L1 STA 13+60	1	LS	\$ 225,000.00	\$ 225,000.00
86	450	8096000000-E	PILE EXCAVATION IN SOIL	307	LF	\$ 350.00	\$ 107,450.00
87	450	8097000000-E	PILE EXCAVATION NOT IN SOIL	477	LF	\$ 440.00	\$ 209,880.00
88	450	8328200000-E	PILE DRIVING EQUIPMENT SETUP FOR HP 8 X 36 STEEL PILES	65	EA	\$ 2,000.00	\$ 130,000.00
89	450	8328200000-E	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	35	EA	\$ 2,500.00	\$ 87,500.00
90	450	8356000000-E	HP 8 X 36 GALVANIZED STEEL PILES	571	LF	\$ 120.00	\$ 68,520.00
91	450	8365000000-E	HP 12 X 53 GALVANIZED STEEL PILES	754	LF	\$ 150.00	\$ 113,100.00
92	SP	8802014000-E	SOLDIER PILE RETAINING WALLS	475	SF	\$ 325.00	\$ 154,375.00
93	454	8802030000-E	SEGMENTAL GRAVITY RETAINING WALLS	493	SF	\$ 125.00	\$ 61,625.00
94	SP	8847000000-E	CIP GRAVITY RETAINING WALLS (EXCLUDING FOOTING)	965	SF	\$ 145.00	\$ 139,925.00
95	SP	8853000000-E	FOOTING CONCRETE	365	CY	\$ 1,000.00	\$ 365,000.00
96	SP	8867000000-E	TIMBER BOARDWALK	460	LF	\$ 1,300.00	\$ 598,000.00
97	412	8860000000-N	UNCLASSIFIED STRUCTURE EXCAVATION	1	LS	\$ 50,000.00	\$ 50,000.00
100	SP	0241000000-E	REMOVAL OF EXISTING ASPHALT PAVEMENT (NON-REIMBURSABLE UNDER LAPP CONTRACT)	2350	SY	\$ 12.50	\$ 29,375.00
101	SP	1880000000-E	ASPHALT CONC SURFACE COURSE, TYPE S9.5B (NON-REIMBURSABLE UNDER LAPP CONTRACT)	270	TON	\$ 150.00	\$ 40,500.00
102	SP	1880000000-E	ASPHALT BINDER FOR PLANT MIX (NON-REIMBURSABLE UNDER LAPP CONTRACT)	16.2	TON	\$ 700.00	\$ 11,340.00
103	SP	3575000000-E	REMOVABLE SAFETY RAIL	60	LF	\$ 150.00	\$ 9,000.00

SUBTOTAL \$4,100,578.10

ESCALATION FROM OCT '25 TO OCT '27 @ 18.0% \$738,104.06
 CONSTRUCTION COST SAY \$4,839,000

Notes:

1. Cost opinion does not include costs for easement or ROW acquisition.
2. Cost opinion does not include engineering, geotech, design survey, or construction administration.
3. Cost opinion does not include cost for private utility relocations.
4. Unit costs used in this cost opinion are representative of typical market costs as best known to the Consultant as of the date of this estimate, and do not account for inflationary cost escalation.
5. Quantities used in this cost opinion are approximations based on 100% Progress Plans by McAdams dated 05-30-2025 and are subject to revision prior to bid.
6. The Engineer has no control over the cost of labor, materials, or equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs, as provided.

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BL-0027 Crabtree Creek Greenway at Lassiter Mill

Project Location: Raleigh, NC
 Project Description: 10' Paved Greenway, Boardwalk, and Stream Restoration
 Client: City of Raleigh
 Client Project No. SPR-0081-2025

ENGINEER'S OPINION OF PROBABLE COST OF CONSTRUCTION - 100% Design

Bid Alt-NCDOT							
#	Section	Item Code	Item Description	Quantity	Unit	Unit Price	Cost
86	450	8096000000-E	PILE EXCAVATION IN SOIL	-307	LF	\$ 350.00	\$ (107,450.00)
87	450	8097000000-E	PILE EXCAVATION NOT IN SOIL	-477	LF	\$ 440.00	\$ (209,880.00)
88	450	8328200000-E	PILE DRIVING EQUIPMENT SETUP FOR HP 8 X 36 STEEL PILES	-65	EA	\$ 2,000.00	\$ (130,000.00)
89	450	8328200000-E	PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES	-35	EA	\$ 2,500.00	\$ (87,500.00)
90	450	8356000000-E	HP 8 X 36 GALVANIZED STEEL PILES	-571	LF	\$ 120.00	\$ (68,520.00)
91	450	8365000000-E	HP 12 X 53 GALVANIZED STEEL PILES	-754	LF	\$ 150.00	\$ (113,100.00)
96	SP	8867000000-E	TIMBER BOARDWALK	-460	LF	\$ 1,300.00	\$ (598,000.00)
98	SP	8867000000-E	BID ALTERNATE #1 TIMBER BOARDWALK	460	LF	\$ 1,300.00	\$ 598,000.00
99	SP	8897000000-N	BID ALTERNATE #1 MICROPILES	47	EA	\$ 19,000.00	\$ 893,000.00

SUBTOTAL \$176,550.00

ESCALATION FROM OCT '25 TO OCT '27 @ 18.0% \$31,779.00
 CONSTRUCTION COST SAY \$209,000

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5. Quantities used in this cost opinion are approximations based on 100% Progress Plans by McAdams dated 05-30-2025 and are subject to revision prior to bid.
6. The Engineer has no control over the cost of labor, materials, or equipment, or over the Contractor's methods of determining prices or over competitive bidding or market conditions. Opinions of probable costs, as provided here, are made on the basis of the Engineer's experience and qualifications and represent the Engineer's judgment as a design professional familiar with the construction industry. The Engineer cannot and does not guarantee that proposals, bids, or actual construction costs will not vary from opinions of probable cost prepared for the Owner.