

MATERIAL TAKEOFF AND COST ESTIMATE STATEMENT

PROJECT NAME:	UMBC SPRING GROVE UTILITY UPGRADE
LOCATION:	300 E JOPPA ROAD BALTIMORE, MD 21286



Sr #	REFERENCE	DESCRIPTION	QUANTITY	WASTE	TOTAL QTY	UNIT	COST/UNIT	MATERIAL TOTAL	UNIT HOURS	TOTAL MANHOURS	UNIT LABOR	TOTAL LABOR	TOTAL COST	REMARKS	TRADE COST	
01. GENERAL CONDITIONS																
\$0																
INDIRECT PROJECT COSTS																
1		General Liability Insurance	0.0	0%	0.0	Mo	\$-	\$-	0.000	0.00	\$-	\$-	\$-			
2		General Conditions (Backoffice Overhead)	0.0	0%	0.0	Mo	\$-	\$-	0.000	0.00	\$-	\$-	\$-			
DIRECT PROJECT COSTS																
3		Bonding Fee (If required)	1.2	0%	1.2	%		\$-	0.000	0.00	\$-	\$-	\$-			
4		Access Control (Pipe Scaffolding or Boom/Scissor Lifts)	0.0	0%	0.0	Mo	\$-	\$-	0.000	0.00	\$-	\$-	\$-			
5		Equipment Rental	0.0	0%	0.0	Mo	\$-	\$-	0.000	0.00	\$-	\$-	\$-			
6		Travel, Tools, Gas	0.0	0%	0.0	Mo	\$-	\$-	0.000	0.00	\$-	\$-	\$-			
7		Field Office	0.0	0%	0.0	Mo	\$-	\$-	0.000	0.00	\$-	\$-	\$-			
8		Temp. Facilities	0.0	0%	0.0	Mo	\$-	\$-	0.000	0.00	\$-	\$-	\$-			
9		Temp. Signage and Protection	0.0	0%	0.0	Mo	\$-	\$-	0.000	0.00	\$-	\$-	\$-			
10		Temp. Fencing	0.0	0%	0.0	Mo	\$-	\$-	0.000	0.00	\$-	\$-	\$-			
11		Field Superintendent/Foreman (Full Time)	0.0	0%	0.0	Mo	\$-	\$-	0.000	0.00	\$-	\$-	\$-			
12		Project Manager (Part Time)	0.0	0%	0.0	Mo	\$-	\$-	0.000	0.00	\$-	\$-	\$-			
31. EARTHWORK																
\$1,565,020																
GRADING FOR ROADWAY/PARKING & CULVERTS CHANNEL																
13	C3101 To C3109	Cut	212210.8	15%	244042.4	CY	\$-	\$-	0.022	5368.93	\$75.00	\$402,670	\$402,670			
14		Fill	54907.2	15%	63143.3	CY	\$1.00	\$63,143	0.018	1136.58	\$75.00	\$85,243	\$148,387			
15		Export Of Soil	157304.0	15%	180899.6	CY	\$-	\$-	0.010	1809.00	\$75.00	\$135,675	\$135,675			
RETAINING WALL GRADING																
16		Excavation	258.1	15%	296.8	CY	\$-	\$-	0.200	59.36	\$75.00	\$4,452	\$4,452			
17		Naturel Soil Backfill	283.9	15%	326.5	CY	\$5.00	\$1,632	0.220	71.82	\$75.00	\$5,387	\$7,019			
SOIL STABILIZATION																
18		C-3: Swale. 2:1 And 3:1 Side Slope, 2'-0" Bottom, 1'-0" Depth	1583.7	5%	1662.9	SF	\$3.52	\$5,853	0.045	74.83	\$75.00	\$5,612	\$11,465			
19		C-4: Swale. 2:1 Side Slopes, 2'-0" Bottom, 1'-0" Depth	2340.4	5%	2457.4	SF	\$3.52	\$8,650	0.045	110.58	\$75.00	\$8,294	\$16,944			
20		C-6: Benching And Drainage, 1'-0" Wide 10:1 Maximum Slope	27126.0	5%	28482.3	SF	\$3.52	\$100,258	0.045	1281.70	\$75.00	\$96,128	\$196,385			
21		C-7: Submerged Gravel Wetland	4103.0	5%	4308.2	SF	\$2.65	\$11,417	0.045	193.87	\$75.00	\$14,540	\$25,957			
22		Same Day Stabilization	2190.2	5%	2299.7	SF	\$3.52	\$8,095	0.045	103.49	\$75.00	\$7,761	\$15,856			
TREE PROTECTION FENCE																
23		Tree Protection Fence	8522.1	5%	8948.2	LF	\$3.50	\$31,319	0.048	429.51	\$75.00	\$32,213	\$63,532			
24		2" U- Channel Or 2"x2" Wooden Tree Protection Fence Post (6'-0" High)	1066.0	0%	1066.0	EA	\$11.00	\$11,726	0.066	70.36	\$75.00	\$5,277	\$17,003			
25	Blaze Orange Plastic Mesh (4'-0" High)	34088.3	5%	35792.7	SF	\$1.00	\$35,793	0.020	715.85	\$75.00	\$53,689	\$89,482				
EROSION & SEDIMENT CONTROLS																
SUPER SILT FENCE																
26	Super Silt Fence	3049.0	5%	3201.4	LF	\$3.52	\$11,269	0.055	176.08	\$75.00	\$13,206	\$24,475				
27	2-3/8" Dia Galvanized Steel Or Aluminum Post	305.0	0%	305.0	EA	\$8.50	\$2,593	0.075	22.72	\$75.00	\$1,704	\$4,297				
28	Galvanized Chain Link Fence (3'-6" High)	3050.0	5%	3202.5	LF	\$14.00	\$44,834	0.060	192.15	\$75.00	\$14,411	\$59,245				
29	Woven Silt Film Geotextile (3'-6" High)	10674.8	5%	11208.6	SF	\$0.60	\$6,725	0.014	156.92	\$75.00	\$11,769	\$18,494				
STABILIZED CONSTRUCTION ENTRANCE																
30	Stabilized Construction Entrance	6960.2	5%	7308.2	SF	\$3.20	\$23,386	0.032	233.86	\$75.00	\$17,540	\$40,926				
31	6" Thick 2"-3" Aggregate	6960.2	5%	7308.2	SF	\$3.20	\$23,386	0.032	233.86	\$75.00	\$17,540	\$40,926				
32	Non-Woven Geotextile Membrane	6960.2	5%	7308.2	SF	\$0.60	\$4,385	0.014	102.31	\$75.00	\$7,674	\$12,059				
33	Timber Matting	6960.2	5%	7308.2	SF	\$2.65	\$19,367	0.022	160.78	\$75.00	\$12,059	\$31,425				
TEMPORARY MULCH ACCESS ROAD & BRIDGE																
34	Temporary Mulch Access Road	30149.8	5%	31657.3	SF	\$0.35	\$11,080	0.0010	31.66	\$75.00	\$2,374	\$13,454				
35	12" Thick Layer Of Woodchip Mulch Replenished As Needed	30149.8	5%	31657.3	SF	\$0.20	\$6,331	0.0010	31.66	\$75.00	\$2,374	\$8,706				
36	Non Woven Geotextile Membrane Class SE	30149.8	5%	31657.3	SF	\$0.60	\$18,994	0.014	443.20	\$75.00	\$33,240	\$52,235				
37	Temporary Access Bridge	233.0	5%	244.7	SF	\$3.00	\$734	0.150	36.70	\$75.00	\$2,752	\$3,486				
STANDARD INLET PROTECTION TYPE-B																
38	Standard Inlet Protection	157.0	5%	164.9	LF	\$3.55	\$585	0.150	24.73	\$75.00	\$1,855	\$2,440				
39	72" High Chain-link Fence Post	24.0	0%	24.0	EA	\$18.00	\$432	1.000	24.00	\$75.00	\$1,800	\$2,232				
40	4'-6" High 9 Gauge Chain link Fence	157.2	5%	165.1	LF	\$22.00	\$3,631	0.088	14.53	\$75.00	\$1,089	\$4,721				
41	Woven Silt Film Geotextile (4'-6" High)	707.4	5%	742.8	SF	\$0.60	\$446	0.014	10.40	\$75.00	\$780	\$1,226				
STANDARD INLET PROTECTION TYPE-A																
42	Standard Inlet Protection	31.6	5%	33.1	LF	\$3.55	\$118	0.150	4.97	\$75.00	\$373	\$490				
43	46" High Chain-link Fence Post	6.0	0%	6.0	EA	\$15.00	\$90	0.880	5.28	\$75.00	\$396	\$486				
44	3'-0" High 9 Gauge Chain link Fence	31.6	5%	33.2	LF	\$20.00	\$664	0.070	2.32	\$75.00	\$174	\$838				
45	Woven Silt Film Geotextile (3'-0" High)	94.8	5%	99.5	SF	\$0.60	\$60	0.014	1.39	\$75.00	\$105	\$164				
AT GRADE INLET PROTECTION																
46	At Grade Inlet Protection	216.0	5%	226.8	SF	\$4.52	\$1,025	0.025	5.67	\$75.00	\$425	\$1,450				
47	6" Thick 3/4" to 1-1/2" Stone	216.0	0%	216.0	SF	\$3.22	\$696	0.022	4.75	\$75.00	\$356	\$1,052				
48	1/4" Hardware Cloth	216.0	5%	226.8	SF	\$1.40	\$318	0.012	2.72	\$75.00	\$204	\$522				
49	Non Woven Geo Textile Membrane	540.0	5%	567.0	SF	\$0.60	\$340	0.014	7.94	\$75.00	\$595	\$936				
COMBINED INLET PROTECTION																
50	Combined Inlet Protection	408.0	5%	428.4	SF	\$4.52	\$1,936	0.025	10.71	\$75.00	\$803	\$2,740				
51	6" Thick 3/4" to 1-1/2" Stone	408.0	0%	408.0	SF	\$3.22	\$1,314	0.022	8.98	\$75.00	\$673	\$1,987				
52	1/4" Hardware Cloth	408.0	5%	428.4	SF	\$1.40	\$600	0.012	5.14	\$75.00	\$386	\$985				
53	Non Woven Geo Textile Membrane	1020.0	5%	1071.0	SF	\$0.60	\$643	0.014	14.99	\$75.00	\$1,125	\$1,767				
MEDIAN SUMP INLET PROTECTION																
54	MSIP: 10 MIL Impermeable Sheeting Wrapped	10.7	5%	11.2	SF	\$1.55	\$17	0.022	0.25	\$75.00	\$18	\$36				
55	Non Woven Geotextile Membrane	42.1	5%	44.2	SF	\$0.60	\$27	0.014	0.62	\$75.00	\$46	\$73				
56	Wood Stake (2'-0" High)	6.0	0%	6.0	EA	\$32.00	\$192	0.250	1.50	\$75.00	\$113	\$305				
57	16" High Silt Fence	31.7	5%	33.2	LF	\$10.00	\$332	0.100	3.32	\$75.00	\$249	\$582				
58	3/4" To 1-1/2" Sized Stone Facing (16" High)	13.5	5%	14.2	LF	\$12.00	\$171	0.150	2.13	\$75.00	\$160	\$331				
59	4"-7" Stone Infill (16" High)	13.5	5%	14.2	LF	\$22.00	\$313	0.200	2.84	\$75.00	\$213	\$526				

	FILTER BAG												
60	16" High Filter Bag	12.0	0%	12.0	EA	\$20.00	\$240	0.500	6.00	\$75.00	\$450	\$690	
61	Non-Woven Geotextile Membrane	300.0	5%	315.0	SF	\$0.60	\$189	0.014	4.41	\$75.00	\$331	\$520	
62	8" Thick Mulch, Leaf Wood Compost, Woodchips, Sand Or Straw Bale	300.0	5%	315.0	SF	\$0.20	\$63	0.0010	0.32	\$75.00	\$24	\$87	
	BERM & SAND DIKE												
63	2'-8" Wide, 24" High Berm w/ 6" Stone Fill Over 18" Thick Compacted Earth Over Geo-Textile Non-Woven Membrane	22.8	5%	24.0	SF	\$10.00	\$240	0.250	5.99	\$75.00	\$449	\$689	
64	1 Bag Thick, 7 Bags High Sand Bag Dike	257.6	5%	270.5	LF	\$18.00	\$4,868	0.350	94.66	\$75.00	\$7,100	\$11,968	
65	2 Bag Thick, 7 Bags High Sand Bag Dike	667.8	5%	701.1	LF	\$18.00	\$12,621	0.350	245.40	\$75.00	\$18,405	\$31,026	
	MISC												
66	Pump & House	31.0	0%	31.0	EA	\$1,000.00	\$31,000	8.000	248.00	\$75.00	\$18,600	\$49,600	
	NOTE: Add the labor Cost for Installation, Maintaining & Removal Of Temporary Erosion & Sediment Controls												

32. EXTERIOR IMPROVEMENTS **\$18,021**

	TRAFFIC CONTROL SIGNAGE												
	PHASE A												
67	1: W20-1, 36"X36" ROAD WORK AHEAD Signage	3.0	0%	3.0	EA	\$210.00	\$630	3.000	9.00	\$85.00	\$765	\$1,395	
68	2: W20-1, 36"X36" ROAD CLOSED AHEAD Signage	1.0	0%	1.0	EA	\$210.00	\$210	3.000	3.00	\$85.00	\$255	\$465	
69	3: W20-7, 36"X36" Signage	2.0	0%	2.0	EA	\$210.00	\$420	3.000	6.00	\$85.00	\$510	\$930	
70	6R: SYCAMORE ST, DETOUR Signage	2.0	0%	2.0	EA	\$350.00	\$700	3.000	6.00	\$85.00	\$510	\$1,210	
71	6L: SYCAMORE ST, DETOUR Signage	2.0	0%	2.0	EA	\$350.00	\$700	3.000	6.00	\$85.00	\$510	\$1,210	
72	MOT-1: Close Road And Maintain Fire Truck Access	12.0	5%	12.6	LF	\$8.80	\$111	0.420	5.29	\$85.00	\$450	\$561	
73	MOT-2: Daily Temporary Traffic Cones And Flagger	10.0	0%	10.0	EA	\$45.00	\$450	1.000	10.00	\$85.00	\$850	\$1,300	
74	MOT-3: Variable Message Sign. Sycamore Street Closed Detour Ahead	1.0	0%	1.0	EA	\$45.00	\$45	1.000	1.00	\$85.00	\$85	\$130	
75	MOT-4: Road Closure	2.0	0%	2.0	EA	\$45.00	\$90	1.000	2.00	\$85.00	\$170	\$260	
76	MOT-5: Contractor To Ensure Access To Day off At All Times	1.0	0%	1.0	EA	\$45.00	\$45	1.000	1.00	\$85.00	\$85	\$130	
	PHASE B												
77	1: W20-1, 36"X36" ROAD WORK AHEAD Signage	3.0	0%	3.0	EA	\$210.00	\$630	3.000	9.00	\$85.00	\$765	\$1,395	
78	2: W20-1, 36"X36" ROAD CLOSED AHEAD Signage	1.0	0%	1.0	EA	\$210.00	\$210	3.000	3.00	\$85.00	\$255	\$465	
79	6R: SYCAMORE ST, DETOUR Signage	1.0	0%	1.0	EA	\$350.00	\$350	3.000	3.00	\$85.00	\$255	\$605	
80	6L: SYCAMORE ST, DETOUR Signage	1.0	0%	1.0	EA	\$350.00	\$350	3.000	3.00	\$85.00	\$255	\$605	
81	MOT-4: Road Closure	4.0	0%	4.0	EA	\$45.00	\$180	1.000	4.00	\$85.00	\$340	\$520	
	PHASE C												
82	1: W20-1, 36"X36" ROAD WORK AHEAD Signage	1.0	0%	1.0	EA	\$210.00	\$210	3.000	3.00	\$85.00	\$255	\$465	
83	2: W20-1, 36"X36" ROAD CLOSED AHEAD Signage	2.0	0%	2.0	EA	\$210.00	\$420	3.000	6.00	\$85.00	\$510	\$930	
84	5R: ELM Street, DETOUR Signage	3.0	0%	3.0	EA	\$350.00	\$1,050	3.000	9.00	\$85.00	\$765	\$1,815	
85	5L: ELM Street, DETOUR Signage	1.0	0%	1.0	EA	\$350.00	\$350	3.000	3.00	\$85.00	\$255	\$605	
86	7: ELECTRONIC VARIABLE MESSAGE Sign	4.0	0%	4.0	EA	\$350.00	\$1,400	3.000	12.00	\$85.00	\$1,020	\$2,420	
87	MOT-3: Variable Message Sign. Sycamore Street Closed Detour Ahead	1.0	0%	1.0	EA	\$350.00	\$350	3.000	3.00	\$85.00	\$255	\$605	
	NOTE: Add the labor Cost for Installation, Maintaining & Removal Of Temporary Traffic Control Signage												

NOTES FOR CLIENTS										SUBTOTAL			\$1,583,041
THIS EXCEL STATEMENT IS EDITABLE AND CAN BE MODIFIED AS NEEDED.													
										GENERAL CONDITIONS			
										OVERHEAD	7%	\$110,812.85	
										PROFIT	15%	\$237,456.12	
										INSURANCE	1%	\$15,830.41	
										CONTINGENCY	2%	\$31,660.82	
										NET TOTAL			\$1,978,801

PRIMAGE ESTIMATING