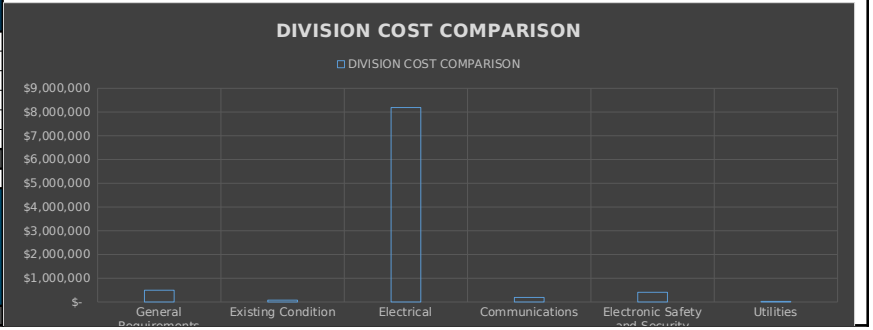
GENERAL SUMMARY

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical
No. Of Floors: 8
Date: 28-Sep-26

ELECTRICAL ESTIMATION
+1 708-381-0900

BUILDING GSF	433,101		
DIVISION NO	**DESCRIPTION**	**TOTAL DIV. COST**	**TOTAL DIV. COST (PER SF)**
1000	General Requirements	$ 495,000	$ 1.14
2000	Existing Condition	$ 76,509	$ 0.18
26000	Electrical	$ 8,190,425	$ 18.91
27000	Communications	$ 190,536	$ 0.44
28000	Electronic Safety and Security	$ 407,737	$ 0.94
33000	Utilities	$ 23,353	$ 0.05
	TOTAL TRADE COST	**$ 9,383,560**	**$ 22**
OVERHEAD	**15%**	$ 1,407,534	$ 3.25
PROFIT	**15%**	$ 1,407,534	$ 3.25
SUB-CONTRACTOR MARGIN	**10%**	$ 257,443	$ 0.59
INSURANCE	**3%**	$ 281,507	$ 0.65
CONTINGENCY	**5%**	$ 469,178	$ 1.08
TAX	**6%**	$ 378,848	$ 0.87
	SUGGESTED BID	**$ 13,585,604**	**$ 31**



DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			GENERAL REQUIREMENTS										
1	`		Permits	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
2			Supervision and Coordination	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 245,000.00	$ 245,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
4			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 35,000.00	$ 35,000.00
5			Mobilization Costs	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 140,000.00	$ 140,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 75,000.00	$ 75,000.00
7			Scaffolding	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
												SUBTOTAL	**$ 495,000**
			EXISTING CONDITIONS										
			DEMOLITION										
8	ED100, ED200-L2C, ED200-L1A, ED200-L1B, ED200-C, ED200-B, ED200-D, ED500 & ED501		Existing 4' Linear Light To Be Removed	EA	189	0%	189	0.30	$ 70.00	$ 21.00	$ -	$ 21.00	$ 3,969.00
9			Existing Receptacle To Be Removed	EA	65	0%	65	0.25	$ 70.00	$ 17.50	$ -	$ 17.50	$ 1,137.50
10			Existing Head To Be Removed	EA	382	0%	382	0.20	$ 70.00	$ 14.00	$ -	$ 14.00	$ 5,348.00
11			Existing Switch To Be Removed	EA	19	0%	19	0.25	$ 70.00	$ 17.50	$ -	$ 17.50	$ 332.50
12			Existing Wall Mounted Light To Be Removed	EA	3	0%	3	0.40	$ 70.00	$ 28.00	$ -	$ 28.00	$ 84.00
13			Existing Track To Be Removed	LF	1446	0%	1446	0.08	$ 70.00	$ 5.60	$ -	$ 5.60	$ 8,095.42
14			Existing 810KW Diesel Generator To Be Removed	EA	1	0%	1	24.00	$ 70.00	$ 1,680.00	$ -	$ 1,680.00	$ 1,680.00
15			Existing ATS-E To Be Removed	EA	1	0%	1	8.00	$ 70.00	$ 560.00	$ -	$ 560.00	$ 560.00
16			Existing Transformer To Be Removed	EA	6	0%	6	6.00	$ 70.00	$ 420.00	$ -	$ 420.00	$ 2,520.00
17			Existing MDP To Be Removed	EA	4	0%	4	10.00	$ 70.00	$ 700.00	$ -	$ 700.00	$ 2,800.00
18			Existing MCC To Be Removed	EA	4	0%	4	12.00	$ 70.00	$ 840.00	$ -	$ 840.00	$ 3,360.00
19			Existing SWBD To Be Removed	EA	1	0%	1	14.00	$ 70.00	$ 980.00	$ -	$ 980.00	$ 980.00
20			Existing Exit Sign To Be Removed	EA	24	0%	24	0.20	$ 70.00	$ 14.00	$ -	$ 14.00	$ 336.00
21			Existing Busway To Be Removed	EA	1	0%	1	8.00	$ 70.00	$ 560.00	$ -	$ 560.00	$ 560.00
22			Existing EDP To Be Removed	EA	3	0%	3	8.00	$ 70.00	$ 560.00	$ -	$ 560.00	$ 1,680.00
23			Existing 225A MLO, 208V Device To Be Removed	EA	1	0%	1	4.00	$ 70.00	$ 280.00	$ -	$ 280.00	$ 280.00
24			Existing Can Light To Be Removed	EA	3	0%	3	0.25	$ 70.00	$ 17.50	$ -	$ 17.50	$ 52.50
25			Existing Panel To Be Removed	EA	1	0%	1	4.00	$ 70.00	$ 280.00	$ -	$ 280.00	$ 280.00
26			Existing Panel To Be Removed	EA	2	0%	2	4.00	$ 70.00	$ 280.00	$ -	$ 280.00	$ 560.00
27			Existing 2'x2' LED Light To Be Removed	EA	6	0%	6	0.30	$ 70.00	$ 21.00	$ -	$ 21.00	$ 126.00
28			Existing Floor Mounted Receptacle To Be Removed	EA	45	0%	45	0.40	$ 70.00	$ 28.00	$ -	$ 28.00	$ 1,260.00
29			Existing Disconnect Switch To Be Removed	EA	2	0%	2	1.00	$ 70.00	$ 70.00	$ -	$ 70.00	$ 140.00
30			Existing Circuit Breaker To Be Removed	EA	17	0%	17	0.50	$ 70.00	$ 35.00	$ -	$ 35.00	$ 595.00
31			Existing Main Circuit Breaker To Be Removed	EA	2	0%	2	1.50	$ 70.00	$ 105.00	$ -	$ 105.00	$ 210.00
32			Existing 600A Fuse To Be Removed	EA	3	0%	3	0.50	$ 70.00	$ 35.00	$ -	$ 35.00	$ 105.00

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Date: 28-Sep-26

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33			Existing Duct Bank To Be Removed	LF	383	0%	383	0.30	$ 70.00	$ 21.00	$ -	$ 21.00	$ 8,033.76
34			Existing EHH To Be Removed	EA	1	0%	1	4.00	$ 70.00	$ 280.00	$ -	$ 280.00	$ 280.00
35			Existing Addressable Interface To Be Removed	EA	3	0%	3	0.50	$ 70.00	$ 35.00	$ -	$ 35.00	$ 105.00
36			Existing Fire Alarm Devices To Be Removed	EA	3	0%	3	0.30	$ 70.00	$ 21.00	$ -	$ 21.00	$ 63.00
37			Existing Heat Detector To Be Removed	EA	1	0%	1	0.30	$ 70.00	$ 21.00	$ -	$ 21.00	$ 21.00
38			Existing Fire Alarm All Work With Associated Wiring & Conduit To Be Removed	SF	44222.5	0%	44223	0.01	$ 70.00	$ 0.70	$ -	$ 0.70	$ 30,955.75
												SUBTOTAL	$ 76,509
			ELECTRICAL										
			DISTRIBUTION										
			DUCT BANK										
39			Duct Bank For (15) 4" Conduit	LF	85	10%	94	4.65	$ 70.00	$ 325.50	$ 332.70	$ 658.20	$ 61,787.87
39			2" Concrete Encased Duct Bank For (4) 4#500 KCMIL, #4/0 MC Cable	LF	21	10%	23	1.08	$ 70.00	$ 75.60	$ 78.82	$ 154.42	$ 3,526.34
			CONDUIT										
40			1" EMT Conduit	LF	5869	10%	6456	0.07	$ 70.00	$ 4.90	$ 3.46	$ 8.36	$ 53,971.32
41			1-1/4" EMT Conduit	LF	5535	10%	6089	0.08	$ 70.00	$ 5.60	$ 5.67	$ 11.27	$ 68,617.40
42			1-1/4" EMT Conduit With Pull String	LF	18	10%	20	0.08	$ 70.00	$ 5.60	$ 5.65	$ 11.25	$ 222.75
43			1-1/2" EMT Conduit	LF	3383	10%	3721	0.09	$ 70.00	$ 6.23	$ 7.04	$ 13.27	$ 49,381.65
44			2" EMT Conduit	LF	3330	10%	3663	0.10	$ 70.00	$ 7.00	$ 8.67	$ 15.67	$ 57,399.21
45			2-1/2" EMT Conduit	LF	1916	10%	2108	0.13	$ 70.00	$ 9.31	$ 11.10	$ 20.41	$ 43,016.12
46			3" EMT Conduit	LF	1912	10%	2103	0.16	$ 70.00	$ 11.20	$ 14.07	$ 25.27	$ 53,147.86
47			3-1/2" EMT Conduit	LF	8405	10%	9246	0.18	$ 70.00	$ 12.46	$ 18.04	$ 30.50	$ 281,987.75
48			4" EMT Conduit	LF	256	10%	281	0.20	$ 70.00	$ 14.00	$ 19.23	$ 33.23	$ 9,342.22
49			3" PVC SCH 40 Conduit	LF	45	10%	50	0.15	$ 70.00	$ 10.15	$ 12.49	$ 22.64	$ 1,121.18
50			3" PVC SCH 40 Conduit With Pullstring	LF	45	10%	50	0.15	$ 70.00	$ 10.15	$ 12.51	$ 22.66	$ 1,122.17
51			4" PVC SCH 40 Conduit	LF	66	10%	72	0.18	$ 70.00	$ 12.46	$ 16.95	$ 29.41	$ 2,127.08
52			4" PVC SCH 40 Conduit With Pullstring	LF	3265	10%	3592	0.18	$ 70.00	$ 12.46	$ 16.97	$ 29.43	$ 105,697.85
53			1" RGS Conduit	LF	258	10%	284	0.12	$ 70.00	$ 8.61	$ 7.78	$ 16.39	$ 4,651.48
54			1-1/4" RGS Conduit	LF	420	10%	462	0.13	$ 70.00	$ 9.31	$ 11.17	$ 20.48	$ 9,461.76
55			2" RGS Conduit	LF	20	10%	22	0.18	$ 70.00	$ 12.46	$ 16.40	$ 28.86	$ 634.92
			CONDUCTOR										
56			4#1/0, #6 MC Fire Rated Cable	LF	96.96	10%	107	0.065	$ 70.00	$ 4.55	$ 15.58	$ 20.13	$ 2,146.99
57			4#2/0, #4 MC Fire Rated Cable	LF	91.02	10%	100	0.075	$ 70.00	$ 5.25	$ 88.60	$ 93.85	$ 9,396.45
58			4#3/0, #3 MC Fire Rated Cable	LF	529.76	10%	583	0.080	$ 70.00	$ 5.60	$ 120.69	$ 126.29	$ 73,593.73
59			4#250 kcmil, #4 MC Fire Rated Cable	LF	187.17	10%	206	0.095	$ 70.00	$ 6.65	$ 99.88	$ 106.53	$ 21,933.14
59			4#350 kcmil, #2/0 MC Fire Rated Cable	LF	123.1	10%	135	0.100	$ 70.00	$ 7.00	$ 71.65	$ 78.65	$ 10,650.00
60			4#500 kcmil, #2/0 MC Fire Rated Cable	LF	546.76	10%	601	0.100	$ 70.00	$ 7.00	$ 86.93	$ 93.93	$ 56,492.88
61			4#500 kcmil, #3 MC Fire Rated Cable	LF	103.25	10%	114	0.120	$ 70.00	$ 8.40	$ 153.73	$ 162.13	$ 18,413.91
62			4#500 kcmil, #250 kcmil MC Fire Rated Cable	LF	2341	10%	2575	0.140	$ 70.00	$ 9.80	$ 198.28	$ 208.08	$ 535,826.81
63			#10 CU THHN/THWN	LF	6577	10%	7235	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 6,800.62
64			#8 CU THHN/THWN	LF	28522	10%	31374	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 37,335.30
65			#6 CU THHN/THWN	LF	8262	10%	9088	0.010	$ 70.00	$ 0.70	$ 0.86	$ 1.56	$ 14,177.59
66			#4 CU THHN/THWN	LF	13002	10%	14302	0.011	$ 70.00	$ 0.77	$ 1.32	$ 2.09	$ 29,891.60
67			#3 CU THHN/THWN	LF	2678	10%	2946	0.012	$ 70.00	$ 0.84	$ 1.66	$ 2.50	$ 7,364.50
68			#2 CU THHN/THWN	LF	11575	10%	12733	0.013	$ 70.00	$ 0.91	$ 2.07	$ 2.98	$ 37,942.85
69			#1 CU THHN/THWN	LF	392	10%	431	0.014	$ 70.00	$ 0.98	$ 2.26	$ 3.24	$ 1,397.09
70			#1/0 CU THHN/THWN	LF	5595	10%	6155	0.015	$ 70.00	$ 1.05	$ 2.77	$ 3.82	$ 23,510.19
71			#2/0 CU THHN/THWN	LF	10406	10%	11447	0.016	$ 70.00	$ 1.12	$ 3.40	$ 4.52	$ 51,738.63
72			#3/0 CU THHN/THWN	LF	3714	10%	4085	0.017	$ 70.00	$ 1.19	$ 4.31	$ 5.50	$ 22,469.70
73			#4/0 CU THHN/THWN	LF	7310	10%	8041	0.018	$ 70.00	$ 1.26	$ 5.37	$ 6.63	$ 53,311.83
74			#250 KCMIL CU THHN/THWN	LF	3412	10%	3753	0.025	$ 70.00	$ 1.75	$ 6.22	$ 7.97	$ 29,913.00

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75			#300 KCMIL CU THHN/THWN	LF	51.96	10%	57	0.028	$ 70.00	$ 1.96	$ 7.46	$ 9.42	$ 538.41
76			#350 KCMIL CU THHN/THWN	LF	4779	10%	5257	0.030	$ 70.00	$ 2.10	$ 8.75	$ 10.85	$ 57,037.37
77			#400 KCMIL CU THHN/THWN	LF	22944	10%	25238	0.032	$ 70.00	$ 2.24	$ 9.95	$ 12.19	$ 307,656.10
78			#500 KCMIL CU THHN/THWN	LF	11959	10%	13155	0.035	$ 70.00	$ 2.45	$ 12.57	$ 15.02	$ 197,586.60
79			#600 KCMIL CU THHN/THWN	LF	1022.32	10%	1125	0.040	$ 70.00	$ 2.80	$ 15.65	$ 18.45	$ 20,747.98
			LUGS										
80			Compression Lug CU With 1-Hole , #8 CU Wire	EA	480	0%	480	0.40	$ 70.00	$ 28.00	$ 2.64	$ 30.64	$ 14,707.20
81			Heat Shrink Tubing for #8 CU Wire	EA	480	0%	480	0.22	$ 70.00	$ 15.40	$ 0.19	$ 15.59	$ 7,485.12
82			Compression Lug CU With 1-Hole , #6 CU Wire	EA	122	0%	122	0.40	$ 70.00	$ 28.00	$ 2.94	$ 30.94	$ 3,774.68
83			Heat Shrink Tubing for #6 CU Wire	EA	122	0%	122	0.22	$ 70.00	$ 15.40	$ 0.21	$ 15.61	$ 1,904.42
84			Compression Lug CU With 1-Hole , #4 CU Wire	EA	255	0%	255	0.40	$ 70.00	$ 28.00	$ 2.98	$ 30.98	$ 7,899.90
85			Heat Shrink Tubing for #4 CU Wire	EA	255	0%	255	0.22	$ 70.00	$ 15.40	$ 0.23	$ 15.63	$ 3,985.65
86			Compression Lug CU With 1-Hole , #3 CU Wire	EA	10	0%	10	0.42	$ 70.00	$ 29.40	$ 3.10	$ 32.50	$ 325.00
87			Heat Shrink Tubing for #3 CU Wire	EA	10	0%	10	0.22	$ 70.00	$ 15.40	$ 0.25	$ 15.65	$ 156.50
88			Compression Lug CU With 1-Hole , #2 CU Wire	EA	232	0%	232	0.42	$ 70.00	$ 29.40	$ 3.50	$ 32.90	$ 7,632.80
89			Heat Shrink Tubing for #2 CU Wire	EA	232	0%	232	0.22	$ 70.00	$ 15.40	$ 0.25	$ 15.65	$ 3,630.80
90			Compression Lug CU With 1-Hole , #1 CU Wire	EA	48	0%	48	0.43	$ 70.00	$ 30.10	$ 4.59	$ 34.69	$ 1,665.12
91			Heat Shrink Tubing for #1 CU Wire	EA	48	0%	48	0.23	$ 70.00	$ 16.10	$ 0.28	$ 16.38	$ 786.24
92			Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	102	0%	102	0.43	$ 70.00	$ 30.10	$ 4.86	$ 34.96	$ 3,565.92
93			Heat Shrink Tubing for #1/0 CU Wire	EA	102	0%	102	0.23	$ 70.00	$ 16.10	$ 0.28	$ 16.38	$ 1,670.76
94			Compression Lug CU With 1-Hole , #2/0 CU Wire	EA	158	0%	158	0.45	$ 70.00	$ 31.50	$ 10.63	$ 42.13	$ 6,656.54
95			Heat Shrink Tubing for #2/0 CU Wire	EA	158	0%	158	0.24	$ 70.00	$ 16.80	$ 0.30	$ 17.10	$ 2,701.80
96			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	126	0%	126	0.45	$ 70.00	$ 31.50	$ 11.00	$ 42.50	$ 5,355.00
97			Heat Shrink Tubing for #3/0 CU Wire	EA	126	0%	126	0.25	$ 70.00	$ 17.50	$ 0.32	$ 17.82	$ 2,245.32
98			Compression Lug CU With 1-Hole , #4/0 CU Wire	EA	126	0%	126	0.45	$ 70.00	$ 31.50	$ 11.56	$ 43.06	$ 5,425.56
99			Heat Shrink Tubing for #4/0 CU Wire	EA	126	0%	126	0.25	$ 70.00	$ 17.50	$ 0.34	$ 17.84	$ 2,247.84
100			Compression Lug CU With 1-Hole , #250 KCMIL CU Wire	EA	40	0%	40	0.42	$ 70.00	$ 29.40	$ 8.59	$ 37.99	$ 1,519.60
101			Heat Shrink Tubing for #250 KCMIL CU Wire	EA	40	0%	40	0.23	$ 70.00	$ 16.10	$ 0.28	$ 16.38	$ 655.20
102			Compression Lug CU With 1-Hole , #300 KCMIL CU Wire	EA	8	0%	8	0.46	$ 70.00	$ 32.20	$ 12.04	$ 44.24	$ 353.92
103			Heat Shrink Tubing for #300 KCMIL CU Wire	EA	8	0%	8	0.25	$ 70.00	$ 17.50	$ 0.34	$ 17.84	$ 142.72
104			Compression Lug CU With 1-Hole , #350 KCMIL CU Wire	EA	136	0%	136	0.46	$ 70.00	$ 32.20	$ 12.19	$ 44.39	$ 6,037.04
105			Heat Shrink Tubing for #350 KCMIL CU Wire	EA	136	0%	136	0.25	$ 70.00	$ 17.50	$ 0.34	$ 17.84	$ 2,426.24
106			Compression Lug CU With 1-Hole , #400 KCMIL CU Wire	EA	86	0%	86	0.48	$ 70.00	$ 33.60	$ 14.87	$ 48.47	$ 4,168.42
107			Heat Shrink Tubing for #400 KCMIL CU Wire	EA	86	0%	86	0.25	$ 70.00	$ 17.50	$ 0.36	$ 17.86	$ 1,535.96
108			Compression Lug CU With 1-Hole , #500 KCMIL CU Wire	EA	400	0%	400	0.46	$ 70.00	$ 32.20	$ 12.19	$ 44.39	$ 17,756.00
109			Heat Shrink Tubing for #500 KCMIL CU Wire	EA	400	0%	400	0.25	$ 70.00	$ 17.50	$ 0.34	$ 17.84	$ 7,136.00
110			Compression Lug CU With 1-Hole , #600 KCMIL CU Wire	EA	96	0%	96	0.48	$ 70.00	$ 33.60	$ 14.87	$ 48.47	$ 4,653.12
111			Heat Shrink Tubing for #600 KCMIL CU Wire	EA	96	0%	96	0.25	$ 70.00	$ 17.50	$ 0.36	$ 17.86	$ 1,714.56
			CIRCUIT BREAKER				0						
112			1P/5A Breaker	EA	1	0%	1	0.15	$ 70.00	$ 10.50	$ 26.38	$ 36.88	$ 36.88
113			1P/10A Breaker	EA	2	0%	2	0.15	$ 70.00	$ 10.50	$ 26.38	$ 36.88	$ 73.75
114			1P/15A Breaker	EA	46	0%	46	0.15	$ 70.00	$ 10.50	$ 26.38	$ 36.88	$ 1,696.25
115			1P/15A Shunt Trip Breaker	EA	1	0%	1	0.35	$ 70.00	$ 24.50	$ 158.25	$ 182.75	$ 182.75
116			1P/20A Braker, GFPE Protection	EA	1	0%	1	0.35	$ 70.00	$ 24.50	$ 126.60	$ 151.10	$ 151.10
117			1P/20A Breaker	EA	2290	0%	2290	0.15	$ 70.00	$ 10.50	$ 26.38	$ 36.88	$ 84,443.75
118			1P/20A GFCI Breaker	EA	10	0%	10	0.25	$ 70.00	$ 17.50	$ 89.68	$ 107.18	$ 1,071.75
119			1P/20A LSI Breaker	EA	9	0%	9	0.60	$ 70.00	$ 42.00	$ 369.25	$ 411.25	$ 3,701.25
120			1P/20A Shunt Trip Breaker	EA	1	0%	1	0.35	$ 70.00	$ 24.50	$ 158.25	$ 182.75	$ 182.75
121			1P/30A Breaker	EA	10	0%	10	0.15	$ 70.00	$ 10.50	$ 31.65	$ 42.15	$ 421.50

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122			1P/30A GFCI Breaker	EA	1	0%	1	0.25	$ 70.00	$ 17.50	$ 100.23	$ 117.73	$ 117.73
123			2P/15A Breaker	EA	4	0%	4	0.20	$ 70.00	$ 14.00	$ 42.20	$ 56.20	$ 224.80
124			2P/20A Breaker	EA	12	0%	12	0.20	$ 70.00	$ 14.00	$ 42.20	$ 56.20	$ 674.40
125			2P/20A Shunt Trip Breaker	EA	2	0%	2	0.40	$ 70.00	$ 28.00	$ 189.90	$ 217.90	$ 435.80
126			2P/30A Breaker	EA	4	0%	4	0.20	$ 70.00	$ 14.00	$ 47.48	$ 61.48	$ 245.90
127			2P/35A Breaker	EA	2	0%	2	0.20	$ 70.00	$ 14.00	$ 52.75	$ 66.75	$ 133.50
128			2P/40A Breaker	EA	6	0%	6	0.20	$ 70.00	$ 14.00	$ 58.03	$ 72.03	$ 432.15
129			2P/40A GFCI Breaker	EA	1	0%	1	0.40	$ 70.00	$ 28.00	$ 189.90	$ 217.90	$ 217.90
130			2P/60A Breaker	EA	2	0%	2	0.25	$ 70.00	$ 17.50	$ 79.13	$ 96.63	$ 193.25
131			3P/10A Breaker	EA	2	0%	2	0.30	$ 70.00	$ 21.00	$ 63.30	$ 84.30	$ 168.60
132			3P/15A Breaker	EA	22	0%	22	0.30	$ 70.00	$ 21.00	$ 63.30	$ 84.30	$ 1,854.60
133			3P/15AT/100AF Breaker	EA	2	0%	2	0.60	$ 70.00	$ 42.00	$ 263.75	$ 305.75	$ 611.50
134			3P/20A Breaker	EA	77	0%	77	0.30	$ 70.00	$ 21.00	$ 68.58	$ 89.58	$ 6,897.28
135			3P/20AT/20AF Breaker	EA	4	0%	4	0.50	$ 70.00	$ 35.00	$ 158.25	$ 193.25	$ 773.00
136			3P/20AT/20AF LSI Breaker	EA	2	0%	2	0.75	$ 70.00	$ 52.50	$ 474.75	$ 527.25	$ 1,054.50
137			3P/20AT/100AF Breaker	EA	3	0%	3	0.60	$ 70.00	$ 42.00	$ 263.75	$ 305.75	$ 917.25
138			3P/20AT/100AF LSI Breaker, Adjustable Electronic Trip Type	EA	1	0%	1	0.90	$ 70.00	$ 63.00	$ 685.75	$ 748.75	$ 748.75
139			3P/25A Breaker	EA	8	0%	8	0.30	$ 70.00	$ 21.00	$ 73.85	$ 94.85	$ 758.80
140			3P/25AT/100AF Breaker	EA	1	0%	1	0.60	$ 70.00	$ 42.00	$ 274.30	$ 316.30	$ 316.30
141			3P/30A Breaker	EA	32	0%	32	0.30	$ 70.00	$ 21.00	$ 79.13	$ 100.13	$ 3,204.00
142			3P/30A LSI Breaker	EA	2	0%	2	0.75	$ 70.00	$ 52.50	$ 527.50	$ 580.00	$ 1,160.00
143			3P/30AT/30AF LSI Breaker	EA	1	0%	1	0.75	$ 70.00	$ 52.50	$ 527.50	$ 580.00	$ 580.00
144			3P/35A Breaker	EA	1	0%	1	0.30	$ 70.00	$ 21.00	$ 84.40	$ 105.40	$ 105.40
145			3P/40A Breaker	EA	33	0%	33	0.30	$ 70.00	$ 21.00	$ 89.68	$ 110.68	$ 3,652.28
146			3P/40AT/100AF Breaker	EA	3	0%	3	0.60	$ 70.00	$ 42.00	$ 290.13	$ 332.13	$ 996.38
147			3P/45A Breaker	EA	3	0%	3	0.30	$ 70.00	$ 21.00	$ 94.95	$ 115.95	$ 347.85
148			3P/45AT/100AF LSI Breaker	EA	1	0%	1	0.90	$ 70.00	$ 63.00	$ 738.50	$ 801.50	$ 801.50
149			3P/50A Breaker	EA	12	0%	12	0.35	$ 70.00	$ 24.50	$ 105.50	$ 130.00	$ 1,560.00
150			3P/50A LSI Breaker	EA	1	0%	1	0.75	$ 70.00	$ 52.50	$ 580.25	$ 632.75	$ 632.75
151			3P/50AT/100AF Breaker	EA	10	0%	10	0.60	$ 70.00	$ 42.00	$ 316.50	$ 358.50	$ 3,585.00
152			3P/50AT/100AF LSI Breaker, Adjustable Electronic Trip Type	EA	2	0%	2	0.90	$ 70.00	$ 63.00	$ 791.25	$ 854.25	$ 1,708.50
153			3P/60A Breaker	EA	14	0%	14	0.35	$ 70.00	$ 24.50	$ 126.60	$ 151.10	$ 2,115.40
154			3P/70A Breaker	EA	5	0%	5	0.40	$ 70.00	$ 28.00	$ 147.70	$ 175.70	$ 878.50
155			3P/70AT/100AF Breaker	EA	4	0%	4	0.65	$ 70.00	$ 45.50	$ 369.25	$ 414.75	$ 1,659.00
156			3P/80A Breaker	EA	34	0%	34	0.40	$ 70.00	$ 28.00	$ 168.80	$ 196.80	$ 6,691.20
157			3P/80AT/100AF Breaker	EA	5	0%	5	0.65	$ 70.00	$ 45.50	$ 422.00	$ 467.50	$ 2,337.50
158			3P/100A Breaker	EA	24	0%	24	0.50	$ 70.00	$ 35.00	$ 263.75	$ 298.75	$ 7,170.00
159			3P/100A LSI Breaker	EA	1	0%	1	0.90	$ 70.00	$ 63.00	$ 949.50	$ 1,012.50	$ 1,012.50
160			3P/100A MCB	EA	10	0%	10	0.75	$ 70.00	$ 52.50	$ 738.50	$ 791.00	$ 7,910.00
161			3P/100A Shunt Trip, LSI Breaker, Adjustable Electronic Trip Type	EA	3	0%	3	1.00	$ 70.00	$ 70.00	$ 1,266.00	$ 1,336.00	$ 4,008.00
162			3P/100AT/100AF Breaker	EA	10	0%	10	0.75	$ 70.00	$ 52.50	$ 474.75	$ 527.25	$ 5,272.50
163			3P/100AT/100AF LSI Breaker	EA	4	0%	4	1.00	$ 70.00	$ 70.00	$ 1,002.25	$ 1,072.25	$ 4,289.00
164			3P/100AT/100AF LSI Breaker, Adjustable Electronic Trip Type	EA	1	0%	1	1.10	$ 70.00	$ 77.00	$ 1,213.25	$ 1,290.25	$ 1,290.25
165			3P/100AT/100AF LSI-G Breaker	EA	1	0%	1	1.10	$ 70.00	$ 77.00	$ 1,424.25	$ 1,501.25	$ 1,501.25
166			3P/100AT/250AF Breaker	EA	1	0%	1	1.00	$ 70.00	$ 70.00	$ 738.50	$ 808.50	$ 808.50
167			3P/125A Breaker	EA	6	0%	6	0.60	$ 70.00	$ 42.00	$ 316.50	$ 358.50	$ 2,151.00
168			3P/125A MCB	EA	1	0%	1	0.90	$ 70.00	$ 63.00	$ 896.75	$ 959.75	$ 959.75
169			3P/125AT/200AF Breaker	EA	5	0%	5	1.00	$ 70.00	$ 70.00	$ 844.00	$ 914.00	$ 4,570.00

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
170			3P/125AT/250AF Breaker	EA	1	0%	1	1.00	$ 70.00	$ 70.00	$ 896.75	$ 966.75	$ 966.75
171			3P/125AT/250AF LSI Breaker	EA	1	0%	1	1.20	$ 70.00	$ 84.00	$ 1,424.25	$ 1,508.25	$ 1,508.25
172			3P/125AT/250AF LSI-G Breaker	EA	1	0%	1	1.20	$ 70.00	$ 84.00	$ 1,635.25	$ 1,719.25	$ 1,719.25
173			3P/150A MCB	EA	3	0%	3	1.00	$ 70.00	$ 70.00	$ 1,055.00	$ 1,125.00	$ 3,375.00
174			3P/175A Breaker	EA	11	0%	11	0.75	$ 70.00	$ 52.50	$ 527.50	$ 580.00	$ 6,380.00
175			3P/175AT/225AF LSI Breaker, Adjustable Electronic Trip Type	EA	3	0%	3	1.25	$ 70.00	$ 87.50	$ 1,793.50	$ 1,881.00	$ 5,643.00
176			3P/175AT/250AF LSI Breaker, Padlocking	EA	1	0%	1	1.25	$ 70.00	$ 87.50	$ 1,899.00	$ 1,986.50	$ 1,986.50
177			3P/175AT/250AF LSI-G Breaker	EA	2	0%	2	1.30	$ 70.00	$ 91.00	$ 2,110.00	$ 2,201.00	$ 4,402.00
178			3P/200A MCB	EA	15	0%	15	1.20	$ 70.00	$ 84.00	$ 1,266.00	$ 1,350.00	$ 20,250.00
179			3P/200A Shunt Trip, LSIG Breaker, Adjustable Electronic Trip Type	EA	1	0%	1	1.50	$ 70.00	$ 105.00	$ 2,637.50	$ 2,742.50	$ 2,742.50
180			3P/200AT/200AF LSI Breaker, Adjustable Electronic Trip Type	EA	2	0%	2	1.40	$ 70.00	$ 98.00	$ 2,110.00	$ 2,208.00	$ 4,416.00
181			3P/225A MCB	EA	7	0%	7	1.25	$ 70.00	$ 87.50	$ 1,477.00	$ 1,564.50	$ 10,951.50
182			3P/225AT/250AF LSI Breaker	EA	2	0%	2	1.40	$ 70.00	$ 98.00	$ 2,215.50	$ 2,313.50	$ 4,627.00
183			3P/250A Breaker	EA	1	0%	1	0.90	$ 70.00	$ 63.00	$ 738.50	$ 801.50	$ 801.50
184			3P/250A MCB	EA	4	0%	4	1.50	$ 70.00	$ 105.00	$ 1,899.00	$ 2,004.00	$ 8,016.00
185			3P/250AT/250AF Breaker	EA	7	0%	7	1.20	$ 70.00	$ 84.00	$ 1,055.00	$ 1,139.00	$ 7,973.00
186			3P/250AT/250AF LSI Breaker	EA	2	0%	2	1.50	$ 70.00	$ 105.00	$ 2,426.50	$ 2,531.50	$ 5,063.00
187			3P/250AT/250AF LSI Breaker, Adjustable Electronic Trip Type	EA	1	0%	1	1.60	$ 70.00	$ 112.00	$ 2,743.00	$ 2,855.00	$ 2,855.00
188			3P/250AT/250AF LSI-G Breaker	EA	1	0%	1	1.60	$ 70.00	$ 112.00	$ 3,059.50	$ 3,171.50	$ 3,171.50
189			3P/250AT/400AF LSI Breaker, Adjustable Electronic Trip Type	EA	1	0%	1	1.75	$ 70.00	$ 122.50	$ 3,376.00	$ 3,498.50	$ 3,498.50
190			3P/300AT/400AF LSI Breaker	EA	1	0%	1	2.00	$ 70.00	$ 140.00	$ 3,692.50	$ 3,832.50	$ 3,832.50
191			3P/300AT/400AF LSI Shut Trip Breaker	EA	1	0%	1	2.20	$ 70.00	$ 154.00	$ 4,220.00	$ 4,374.00	$ 4,374.00
192			3P/350AT/400AF LSI Breaker	EA	1	0%	1	2.25	$ 70.00	$ 157.50	$ 4,431.00	$ 4,588.50	$ 4,588.50
193			3P/400A MCB	EA	7	0%	7	2.50	$ 70.00	$ 175.00	$ 3,692.50	$ 3,867.50	$ 27,072.50
194			3P/400AT/400AF Breaker	EA	3	0%	3	2.00	$ 70.00	$ 140.00	$ 2,637.50	$ 2,777.50	$ 8,332.50
195			3P/400AT/400AF LSI Breaker	EA	2	0%	2	2.50	$ 70.00	$ 175.00	$ 4,747.50	$ 4,922.50	$ 9,845.00
196			3P/400AT/400AF LSI Breaker, Adjustable Electronic Trip Type	EA	1	0%	1	2.75	$ 70.00	$ 192.50	$ 5,275.00	$ 5,467.50	$ 5,467.50
197			3P/400AT/400AF LSI Breaker, Padlocking	EA	3	0%	3	2.75	$ 70.00	$ 192.50	$ 5,486.00	$ 5,678.50	$ 17,035.50
198			3P/400AT/400AF LSI-G Breaker	EA	11	0%	11	2.75	$ 70.00	$ 192.50	$ 5,802.50	$ 5,995.00	$ 65,945.00
199			3P/450AT/600AF LSI-G Breaker	EA	1	0%	1	3.00	$ 70.00	$ 210.00	$ 6,857.50	$ 7,067.50	$ 7,067.50
200			3P/600AT/600AF LSI Breaker	EA	1	0%	1	3.50	$ 70.00	$ 245.00	$ 8,967.50	$ 9,212.50	$ 9,212.50
201			3P/600AT/600AF LSI-G Breaker	EA	4	0%	4	3.75	$ 70.00	$ 262.50	$ 10,022.50	$ 10,285.00	$ 41,140.00
202			3P/1000A 100% Rated MCB	EA	1	0%	1	8.00	$ 70.00	$ 560.00	$ 18,990.00	$ 19,550.00	$ 19,550.00
203			3P/1600A 100% Rated MCB, ERMS	EA	1	0%	1	10.25	$ 70.00	$ 717.50	$ 16,500.00	$ 17,217.50	$ 17,217.50
204			3P/3000A 100% Rated AFCI MCB	EA	1	0%	1	14.45	$ 70.00	$ 1,011.50	$ 28,000.00	$ 29,011.50	$ 29,011.50
			PANEL										
205			Panel A: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Flush Mounted, N	EA	1	0%	1	5.25	$ 70.00	$ 367.50	$ 2,225.84	$ 2,593.34	$ 2,593.34
206			Panel B: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Flush Mounted, N	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
207			Panel DP-HLR5B: 800A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface	EA	1	0%	1	14.48	$ 70.00	$ 1,013.60	$ 7,900.00	$ 8,913.60	$ 8,913.60
208			Panel DP-HLRLL3: 800A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface	EA	1	0%	1	14.48	$ 70.00	$ 1,013.60	$ 7,900.00	$ 8,913.60	$ 8,913.60
209			Panel DP-HLSLL3: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
210			Panel DP-HM4B: 800A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface M	EA	1	0%	1	14.48	$ 70.00	$ 1,013.60	$ 7,900.00	$ 8,913.60	$ 8,913.60
211			Panel DP-HM5A: 800A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface	EA	1	0%	1	14.48	$ 70.00	$ 1,013.60	$ 7,900.00	$ 8,913.60	$ 8,913.60
212			Panel DP-HMLL3B1: 1000A, 480Y/277V, 3Ph, 4W, Mains: MLO, 84 Poles, Surf	EA	1	0%	1	18.44	$ 70.00	$ 1,290.80	$ 12,048.00	$ 13,338.80	$ 13,338.80
213			Panel DP-HMLL3B2: 1000A, 480Y/277V, 3Ph, 4W, Mains: MLO, 84 Poles, Surf	EA	1	0%	1	18.44	$ 70.00	$ 1,290.80	$ 12,048.00	$ 13,338.80	$ 13,338.80
214			Panel DP-HMLL3B: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surfac	EA	1	0%	1	5.45	$ 70.00	$ 381.50	$ 2,569.40	$ 2,950.90	$ 2,950.90
215			Panel DP-HOSLL3: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
216			Panel DP-PV: 225A, 480Y/277V, 3Ph, 4W, Mains: MLO, 24 Poles, Surface Moun	EA	1	0%	1	4.28	$ 70.00	$ 299.60	$ 2,080.45	$ 2,380.05	$ 2,380.05
217			Panel EDP-1: 600A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mount	EA	1	0%	1	6.45	$ 70.00	$ 451.50	$ 5,900.00	$ 6,351.50	$ 6,351.50
218			Panel EH-1: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mount	EA	1	0%	1	5.45	$ 70.00	$ 381.50	$ 2,569.40	$ 2,950.90	$ 2,950.90

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
219			Panel EP-4: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Flush Mounted	EA	1	0%	1	3.85	$ 70.00	$ 269.50	$ 1,244.00	$ 1,513.50	$ 1,513.50
220			Panel ER-1: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mount	EA	1	0%	1	3.85	$ 70.00	$ 269.50	$ 1,244.00	$ 1,513.50	$ 1,513.50
221			Panel ESB-EPMDP: 1600A, 480Y/277V, 3Ph, 4W, Mains: MCB, 42 Poles, 65KA	EA	1	0%	1	7.15	$ 70.00	$ 500.50	$ 6,248.00	$ 6,748.50	$ 6,748.50
222			Panel HC5B: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	5.45	$ 70.00	$ 381.50	$ 2,569.40	$ 2,950.90	$ 2,950.90
223			Panel HEV5: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mount	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
224			Panel HL2A: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
225			Panel HL2B: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
226			Panel HL3A: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
227			Panel HL3B: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
228			Panel HL4A: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
229			Panel HL4B: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
230			Panel HL5A: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
231			Panel HL5B: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
232			Panel HLLL3A: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mo	EA	1	0%	1	5.45	$ 70.00	$ 381.50	$ 2,569.40	$ 2,950.90	$ 2,950.90
233			Panel HLLL3AX: 100A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface M	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
234			Panel HLRA: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
235			Panel HLRB: 400A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
236			Panel HLRLL1: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1	0%	1	6.25	$ 70.00	$ 437.50	$ 3,966.48	$ 4,403.98	$ 4,403.98
237			Panel HLRLL3B1: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface M	EA	1	0%	1	5.45	$ 70.00	$ 381.50	$ 2,569.40	$ 2,950.90	$ 2,950.90
238			Panel HLS2B: 200A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1	0%	1	3.95	$ 70.00	$ 276.50	$ 1,599.00	$ 1,875.50	$ 1,875.50
239			Panel HLS3A: 200A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1	0%	1	3.95	$ 70.00	$ 276.50	$ 1,599.00	$ 1,875.50	$ 1,875.50
240			Panel HLS4B: 200A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1	0%	1	3.95	$ 70.00	$ 276.50	$ 1,599.00	$ 1,875.50	$ 1,875.50
241			Panel HLSRA: 200A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1	0%	1	3.95	$ 70.00	$ 276.50	$ 1,599.00	$ 1,875.50	$ 1,875.50
242			Panel HM2A: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	3.45	$ 70.00	$ 241.50	$ 1,423.66	$ 1,665.16	$ 1,665.16
243			Panel HM2B: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	5.45	$ 70.00	$ 381.50	$ 2,569.40	$ 2,950.90	$ 2,950.90
244			Panel HM3A: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	3.45	$ 70.00	$ 241.50	$ 1,423.66	$ 1,665.16	$ 1,665.16
245			Panel HM3B: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	3.45	$ 70.00	$ 241.50	$ 1,423.66	$ 1,665.16	$ 1,665.16
246			Panel HM4A1: 250A, 480Y/277V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	5.80	$ 70.00	$ 406.00	$ 2,763.10	$ 3,169.10	$ 3,169.10
247			Panel HM4B1: 400A, 480Y/277V, 3Ph, 4W, Mains: MCB, 60 Poles, Surface Mou	EA	1	0%	1	6.80	$ 70.00	$ 476.00	$ 4,800.00	$ 5,276.00	$ 5,276.00
248			Panel HM4B2: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1	0%	1	5.45	$ 70.00	$ 381.50	$ 2,569.40	$ 2,950.90	$ 2,950.90
249			Panel HM4A: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 84 Poles, Surface Moun	EA	1	0%	1	8.15	$ 70.00	$ 570.50	$ 6,720.00	$ 7,290.50	$ 7,290.50
250			Panel HM5A1: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 84 Poles, Surface Mou	EA	1	0%	1	8.15	$ 70.00	$ 570.50	$ 6,720.00	$ 7,290.50	$ 7,290.50
251			Panel HM5B: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	3.45	$ 70.00	$ 241.50	$ 1,423.66	$ 1,665.16	$ 1,665.16
252			Panel HMLL1: 600A, 480Y/277V, 3Ph, 4W, Mains: MLO, 60 Poles, Surface Mou	EA	1	0%	1	6.45	$ 70.00	$ 451.50	$ 5,900.00	$ 6,351.50	$ 6,351.50
253			Panel HMLL3A1: 800A, 480Y/277V, 3Ph, 4W, Mains: MLO, 84 Poles, Surface	EA	1	0%	1	14.48	$ 70.00	$ 1,013.60	$ 7,900.00	$ 8,913.60	$ 8,913.60
254			Panel HMRA: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1	0%	1	3.45	$ 70.00	$ 241.50	$ 1,423.66	$ 1,665.16	$ 1,665.16
255			Panel HMRB: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1	0%	1	3.45	$ 70.00	$ 241.50	$ 1,423.66	$ 1,665.16	$ 1,665.16
256			Panel HOS5B: 100A, 488Y/277V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	3.85	$ 70.00	$ 269.50	$ 1,244.00	$ 1,513.50	$ 1,513.50
257			Panel HOSLL1: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 60 Poles, Surface Mo	EA	1	0%	1	6.80	$ 70.00	$ 476.00	$ 4,800.00	$ 5,276.00	$ 5,276.00
258			Panel LAV2B: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	3.85	$ 70.00	$ 269.50	$ 1,244.00	$ 1,513.50	$ 1,513.50
259			Panel LAV2A: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
260			Panel LAV3A: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
261			Panel LAV3B: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
262			Panel LAV4A: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
263			Panel LAV4B: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
264			Panel LAV5A: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
265			Panel LAV5B: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
266			Panel LAVRA: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
267			Panel LAVRD: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
268			Panel LC5B: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Mount	EA	1	0%	1	5.55	$ 70.00	$ 388.50	$ 2,688.00	$ 3,076.50	$ 3,076.50
269			Panel LCRA: 250A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Moun	EA	1	0%	1	5.80	$ 70.00	$ 406.00	$ 2,763.10	$ 3,169.10	$ 3,169.10
270			Panel LEV5: 150A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mounte	EA	1	0%	1	3.58	$ 70.00	$ 250.60	$ 1,544.50	$ 1,795.10	$ 1,795.10
271			Panel LLR5B: 150A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mour	EA	1	0%	1	3.58	$ 70.00	$ 250.60	$ 1,544.50	$ 1,795.10	$ 1,795.10
272			Panel LLRLL1: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mo	EA	1	0%	1	3.85	$ 70.00	$ 269.50	$ 1,244.00	$ 1,513.50	$ 1,513.50
273			Panel LLRLL3: 150A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	3.58	$ 70.00	$ 250.60	$ 1,544.50	$ 1,795.10	$ 1,795.10
274			Panel LLS2B: 125A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	3.42	$ 70.00	$ 239.40	$ 1,258.00	$ 1,497.40	$ 1,497.40
275			Panel LLS3A: 125A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1	0%	1	3.42	$ 70.00	$ 239.40	$ 1,258.00	$ 1,497.40	$ 1,497.40

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
276			Panel LLS4B: 125A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1	0%	1	3.42	$ 70.00	$ 239.40	$ 1,258.00	$ 1,497.40	$ 1,497.40
277			Panel LLSLL3: 125A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	3.48	$ 70.00	$ 243.60	$ 1,340.00	$ 1,583.60	$ 1,583.60
278			Panel LLSR: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mounte	EA	1	0%	1	3.85	$ 70.00	$ 269.50	$ 1,244.00	$ 1,513.50	$ 1,513.50
279			Panel LLSRA: 125A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1	0%	1	3.42	$ 70.00	$ 239.40	$ 1,258.00	$ 1,497.40	$ 1,497.40
280			Panel LM5A: 250A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Moun	EA	1	0%	1	5.80	$ 70.00	$ 406.00	$ 2,763.10	$ 3,169.10	$ 3,169.10
281			Panel LMLL1: 250A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	5.80	$ 70.00	$ 406.00	$ 2,763.10	$ 3,169.10	$ 3,169.10
282			Panel LMLL3A: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mo	EA	1	0%	1	3.85	$ 70.00	$ 269.50	$ 1,244.00	$ 1,513.50	$ 1,513.50
283			Panel LMLL3B: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mo	EA	1	0%	1	3.85	$ 70.00	$ 269.50	$ 1,244.00	$ 1,513.50	$ 1,513.50
284			Panel LOS2A: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	5.25	$ 70.00	$ 367.50	$ 2,445.00	$ 2,812.50	$ 2,812.50
285			Panel LOS3B: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	5.25	$ 70.00	$ 367.50	$ 2,445.00	$ 2,812.50	$ 2,812.50
286			Panel LOS4A: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	5.25	$ 70.00	$ 367.50	$ 2,445.00	$ 2,812.50	$ 2,812.50
287			Panel LOS4B: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	5.25	$ 70.00	$ 367.50	$ 2,445.00	$ 2,812.50	$ 2,812.50
288			Panel LOSLL1: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mo	EA	1	0%	1	3.85	$ 70.00	$ 269.50	$ 1,244.00	$ 1,513.50	$ 1,513.50
289			Panel LOSLL3: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mo	EA	1	0%	1	3.85	$ 70.00	$ 269.50	$ 1,244.00	$ 1,513.50	$ 1,513.50
290			Panel LOSRB: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	5.25	$ 70.00	$ 367.50	$ 2,445.00	$ 2,812.50	$ 2,812.50
291			Panel LR2A-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1	0%	1	4.10	$ 70.00	$ 287.00	$ 1,785.00	$ 2,072.00	$ 2,072.00
292			Panel LR2B-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1	0%	1	4.10	$ 70.00	$ 287.00	$ 1,785.00	$ 2,072.00	$ 2,072.00
293			Panel LR2B: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Mount	EA	1	0%	1	4.80	$ 70.00	$ 336.00	$ 3,192.00	$ 3,528.00	$ 3,528.00
294			Panel LR2A: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 126 Poles, Surface Mou	EA	1	0%	1	6.45	$ 70.00	$ 451.50	$ 4,536.00	$ 4,987.50	$ 4,987.50
295			Panel LR3A-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1	0%	1	4.10	$ 70.00	$ 287.00	$ 1,785.00	$ 2,072.00	$ 2,072.00
296			Panel LR3B-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1	0%	1	4.10	$ 70.00	$ 287.00	$ 1,785.00	$ 2,072.00	$ 2,072.00
297			Panel LR3A: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1	0%	1	4.80	$ 70.00	$ 336.00	$ 3,192.00	$ 3,528.00	$ 3,528.00
298			Panel LR3B: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Mount	EA	1	0%	1	4.80	$ 70.00	$ 336.00	$ 3,192.00	$ 3,528.00	$ 3,528.00
299			Panel LR4A-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1	0%	1	4.10	$ 70.00	$ 287.00	$ 1,785.00	$ 2,072.00	$ 2,072.00
300			Panel LR4B-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1	0%	1	4.10	$ 70.00	$ 287.00	$ 1,785.00	$ 2,072.00	$ 2,072.00
301			Panel LR4A: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1	0%	1	4.80	$ 70.00	$ 336.00	$ 3,192.00	$ 3,528.00	$ 3,528.00
302			Panel LR4B: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Mount	EA	1	0%	1	4.80	$ 70.00	$ 336.00	$ 3,192.00	$ 3,528.00	$ 3,528.00
303			Panel LR5A: 400A, 208Y/120V, 3Ph, 4W, Mains: MCB, 126 Poles, Surface Mou	EA	1	0%	1	16.28	$ 70.00	$ 1,139.60	$ 10,080.00	$ 11,219.60	$ 11,219.60
304			Panel LR5B: 400A, 208Y/120V, 3Ph, 4W, Mains: MCB, 126 Poles, Surface Moun	EA	1	0%	1	16.28	$ 70.00	$ 1,139.60	$ 10,080.00	$ 11,219.60	$ 11,219.60
305			Panel LRLL1: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1	0%	1	3.40	$ 70.00	$ 238.00	$ 1,080.28	$ 1,318.28	$ 1,318.28
306			Panel LRLL3A: 400A, 208Y/120V, 3Ph, 4W, Mains: MCB, 126 Poles, Surface M	EA	1	0%	1	16.28	$ 70.00	$ 1,139.60	$ 10,080.00	$ 11,219.60	$ 11,219.60
307			Panel LRRA-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1	0%	1	4.10	$ 70.00	$ 287.00	$ 1,785.00	$ 2,072.00	$ 2,072.00
308			Panel LRRA: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1	0%	1	4.80	$ 70.00	$ 336.00	$ 3,192.00	$ 3,528.00	$ 3,528.00
309			Panel LRRB-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1	0%	1	4.10	$ 70.00	$ 287.00	$ 1,785.00	$ 2,072.00	$ 2,072.00
310			Panel LRRB: 400A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1	0%	1	8.15	$ 70.00	$ 570.50	$ 6,720.00	$ 7,290.50	$ 7,290.50
311			Panel MDP-1: 400A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	6.44	$ 70.00	$ 450.80	$ 3,966.48	$ 4,417.28	$ 4,417.28
312			Panel MDP-2: 1000A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	16.23	$ 70.00	$ 1,136.10	$ 11,852.15	$ 12,988.25	$ 12,988.25
313			Panel MDP-3: 400A, 480Y/277V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1	0%	1	6.48	$ 70.00	$ 453.60	$ 4,155.80	$ 4,609.40	$ 4,609.40
			DEVICES										
314			1000 KW, 480/277V, Mains: MCB, Renovation Generator Natural Gas Docking St	EA	1	0%	1	6.00	$ 70.00	$ 420.00	$ 7,500.00	$ 7,920.00	$ 7,920.00
315			1000A Meter	EA	2	0%	2	1.00	$ 70.00	$ 70.00	$ 1,200.00	$ 1,270.00	$ 2,540.00
316			100A Meter	EA	1	0%	1	1.00	$ 70.00	$ 70.00	$ 320.00	$ 390.00	$ 390.00
317			100A, 208/120V, Mains: MLO, Generator Load Center	EA	1	0%	1	7.00	$ 70.00	$ 490.00	$ 1,200.00	$ 1,690.00	$ 1,690.00
318			1200A Meter	EA	1	0%	1	1.00	$ 70.00	$ 70.00	$ 1,200.00	$ 1,270.00	$ 1,270.00
319			150A Meter	EA	6	0%	6	1.00	$ 70.00	$ 70.00	$ 320.00	$ 390.00	$ 2,340.00
320			200A Meter	EA	7	0%	7	1.00	$ 70.00	$ 70.00	$ 320.00	$ 390.00	$ 2,730.00
321			225A Meter	EA	7	0%	7	1.00	$ 70.00	$ 70.00	$ 650.00	$ 720.00	$ 5,040.00
322			250A Meter	EA	6	0%	6	1.00	$ 70.00	$ 70.00	$ 650.00	$ 720.00	$ 4,320.00
323			400A Meter	EA	18	0%	18	1.00	$ 70.00	$ 70.00	$ 650.00	$ 720.00	$ 12,960.00
324			480/277V Triple Breaker Docking Station, TRYSTAR TBDS	EA	1	0%	1	0.40	$ 70.00	$ 28.00	$ 55.00	$ 83.00	$ 83.00
325			800A Meter	EA	5	0%	5	1.00	$ 70.00	$ 70.00	$ 1,200.00	$ 1,270.00	$ 6,350.00
326	**E210-A, E210-B, E210-C, E212-A, E212-B, E212-D, E213A, E213B, E214-A, E214-B,**		ATS-HLRLL1: 4P/400A Auto Matic Transformer Switch	EA	1	0%	1	7.00	$ 70.00	$ 490.00	$ 2,900.00	$ 3,390.00	$ 3,390.00
327			Dominion Metering CT Cabinet With Meter	EA	1	0%	1	0.00	$ 70.00	$ -	$ -	$ -	$ -
328			Dominion Utility Meter	EA	2	0%	2	0.00	$ 70.00	$ -	$ -	$ -	$ -
329			T-2: 300KVA, 480-208/120V Transformer	EA	1	0%	1	37.80	$ 70.00	$ 2,646.00	$ 31,000.00	$ 33,646.00	$ 33,646.00

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
330	E214-C, E214-DE215-A, E215-B, E216-A, E217-A, E217-B, E501, E502, E600, E601, E810-3, E810-5-L1, E810-L2, E810-P, E810R, EE210-L1A, EE210-L1B, EEE501, E210-L1C, E210-L2C, EEE701, EE702, EE710, E701, E702, E703, E711, E712, E721, E722, E731, E732, E741, E742, E751, E752, E753, E754, E771, EE211-B, EE214A, EE600, E102, E210-L3QA & E210-L3B		T4: 112.5KVA, 480-208/120V, Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
331			T-ER-1: 30KVA, 480-208/120V Transformer	EA	1	0%	1	14.50	$ 70.00	$ 1,015.00	$ 5,060.00	$ 6,075.00	$ 6,075.00
332			T-GEN-3A: 30KVA Transformer, Ceiling Mounted	EA	1	0%	1	14.50	$ 70.00	$ 1,015.00	$ 5,060.00	$ 6,075.00	$ 6,075.00
333			T-LC5B: 75KVA Transformer, Ceiling Mounted	EA	1	0%	1	20.05	$ 70.00	$ 1,403.50	$ 9,120.00	$ 10,523.50	$ 10,523.50
334			T-LCRA: 75KVA Transformer, Ceiling Mounted	EA	1	0%	1	20.05	$ 70.00	$ 1,403.50	$ 9,120.00	$ 10,523.50	$ 10,523.50
335			T-LEV5: 45KVA Transformer	EA	1	0%	1	16.60	$ 70.00	$ 1,162.00	$ 6,050.00	$ 7,212.00	$ 7,212.00
336			T-LEV5:0 45KVA Transformer, Ceiling Mounted	EA	1	0%	1	16.60	$ 70.00	$ 1,162.00	$ 6,050.00	$ 7,212.00	$ 7,212.00
337			T-LL5RB: 45KVA Transformer	EA	1	0%	1	16.60	$ 70.00	$ 1,162.00	$ 6,050.00	$ 7,212.00	$ 7,212.00
338			T-LLR5B: 45 KVA Transformer	EA	1	0%	1	16.60	$ 70.00	$ 1,162.00	$ 6,050.00	$ 7,212.00	$ 7,212.00
339			T-LLRLL1: 30 KVA, 480-208/120V, Transformer	EA	1	0%	1	14.50	$ 70.00	$ 1,015.00	$ 5,060.00	$ 6,075.00	$ 6,075.00
340			T-LLRLL3: 45KVA Transformer	EA	1	0%	1	16.60	$ 70.00	$ 1,162.00	$ 6,050.00	$ 7,212.00	$ 7,212.00
341			T-LLSLL3: 75KVA Transformer	EA	1	0%	1	20.05	$ 70.00	$ 1,403.50	$ 9,120.00	$ 10,523.50	$ 10,523.50
342			T-LLSR: 30KVA, 480-208/120V, Transformer	EA	1	0%	1	14.50	$ 70.00	$ 1,015.00	$ 5,060.00	$ 6,075.00	$ 6,075.00
343			T-LM5A: 75KVA Transformer, Ceiling Mounted	EA	1	0%	1	20.05	$ 70.00	$ 1,403.50	$ 9,120.00	$ 10,523.50	$ 10,523.50
344			T-LMLL1: 75 KVA, 480-208/120V, Transformer	EA	1	0%	1	20.05	$ 70.00	$ 1,403.50	$ 9,120.00	$ 10,523.50	$ 10,523.50
345			T-LMLL3A: 30KVA Transformer	EA	1	0%	1	14.50	$ 70.00	$ 1,015.00	$ 5,060.00	$ 6,075.00	$ 6,075.00
346			T-LMLL3B: 30KVA Transformer	EA	1	0%	1	14.50	$ 70.00	$ 1,015.00	$ 5,060.00	$ 6,075.00	$ 6,075.00
347			T-LOS2A: 75KVA Transformer	EA	1	0%	1	20.05	$ 70.00	$ 1,403.50	$ 9,120.00	$ 10,523.50	$ 10,523.50
348			T-LOS3B: 75KVA Transformer, Ceiling Mounted	EA	1	0%	1	20.05	$ 70.00	$ 1,403.50	$ 9,120.00	$ 10,523.50	$ 10,523.50
349			T-LOS4A: 75KVA Transformer, Ceiling Mounted	EA	1	0%	1	20.05	$ 70.00	$ 1,403.50	$ 9,120.00	$ 10,523.50	$ 10,523.50
350			T-LOS4B: 75 KVA Transformer, Ceiling Mounted	EA	1	0%	1	20.05	$ 70.00	$ 1,403.50	$ 9,120.00	$ 10,523.50	$ 10,523.50
351			T-LOSLL3: 30KVA Transformer, Ceiling Mounted	EA	1	0%	1	14.50	$ 70.00	$ 1,015.00	$ 5,060.00	$ 6,075.00	$ 6,075.00
352			T-LOSRB: 75KVA Transformer, Ceiling Mounted	EA	1	0%	1	20.05	$ 70.00	$ 1,403.50	$ 9,120.00	$ 10,523.50	$ 10,523.50
353			T-LR2A: 112.5KVA Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
354			T-LR2B: 112.5KVA Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
355			T-LR3A: 112.5KVA Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
356			T-LR3B: 112.5KVA Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
357			T-LR4A: 112.5KVA Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
358			T-LR4B: 112.5KVA, Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
359			T-LR5A: 112.5KVA Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
360			T-LR5B: 112.5KVA Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
361			T-LRLL3A: 112.5KVA Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
362			T-LRRA: 112.5KVA Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
363			T-LRRB: 112.5KVA Transformer	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
364			T-Panel-A: 75KVA, 480-208/120V Transformer	EA	1	0%	1	20.05	$ 70.00	$ 1,403.50	$ 9,120.00	$ 10,523.50	$ 10,523.50
365			T-SE-1: 112.5KVA, 480-208/120V, Transformer, Ceiling Mounted	EA	1	0%	1	21.70	$ 70.00	$ 1,519.00	$ 12,100.00	$ 13,619.00	$ 13,619.00
366			T-URA: 3750kVA, 34.5kV-480/277V Transformer, DOMINION, Pad Mounted	EA	1	0%	1	0.00	$ 70.00	$ -	$ -	$ -	$ -
366			T-URB: 3750kVA, 34.5kV-480/277V Transformer, DOMINION, Pad Mounted	EA	1	0%	1	0.00	$ 70.00	$ -	$ -	$ -	$ -
367			3000A, Bus Duct With 100% Neutral And 50% Internal Ground Bus, 100 KAIC	LF	487	0%	487	0.02	$ 70.00	$ 1.61	$ 3.30	$ 4.91	$ 2,391.17
			DISCONNECT SWITCH										
368		**Rating Assumed**	1P/20A Non-Fused Disconnect Switch, NEMA 1	EA	14	0%	14	0.42	$ 70.00	$ 29.65	$ 144.00	$ 173.65	$ 2,431.06
369			1P/30A Fused Disconnect Switch, NEMA 1	EA	4	0%	4	0.42	$ 70.00	$ 29.65	$ 144.00	$ 173.65	$ 694.59
370			1P/30A Non Fusible Disconnect Switch, NEMA-1	EA	18	0%	18	0.42	$ 70.00	$ 29.65	$ 144.00	$ 173.65	$ 3,125.65
371			1P/30A Non-Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	0.47	$ 70.00	$ 32.61	$ 158.40	$ 191.01	$ 382.02
372			1P/60A Non Fusible Disconnect switch, NEMA-3R	EA	4	0%	4	0.70	$ 70.00	$ 48.92	$ 237.60	$ 286.52	$ 1,146.07
373			2P/30A Disconnect Switch, NEMA 3R	EA	1	0%	1	0.39	$ 70.00	$ 27.18	$ 132.00	$ 159.18	$ 159.18
374			2P/30A Non Fusible Disconnect Switch, NEMA-1	EA	4	0%	4	0.42	$ 70.00	$ 29.65	$ 144.00	$ 173.65	$ 694.59
375			2P/30A Non-Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	0.47	$ 70.00	$ 32.61	$ 158.40	$ 191.01	$ 191.01
376			2P/60A Non-Fused Disconnect Switch, NEMA 1	EA	1	0%	1	0.64	$ 70.00	$ 44.47	$ 216.00	$ 260.47	$ 260.47
377			2P/60A Non-Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	0.70	$ 70.00	$ 48.92	$ 237.60	$ 286.52	$ 573.04
378			2P/60A Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	0.70	$ 70.00	$ 48.92	$ 237.60	$ 286.52	$ 573.04

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
379			3P/20A Fusible Disconnect Switch, NEMA-1	EA	3	0%	3	0.42	$ 70.00	$ 29.65	$ 144.00	$ 173.65	$ 520.94
380			3P/20A Fused Disconnect Switch, NEMA 3R	EA	2	0%	2	0.47	$ 70.00	$ 32.61	$ 158.40	$ 191.01	$ 382.02
381			3P/30A Disconnect Switch, NEMA 4X	EA	3	0%	3	0.35	$ 70.00	$ 24.71	$ 120.00	$ 144.71	$ 434.12
382			3P/30A Fused Disconnect Switch, NEMA 1	EA	15	0%	15	0.42	$ 70.00	$ 29.65	$ 144.00	$ 173.65	$ 2,604.71
383			3P/30A Fused Disconnect Switch, NEMA 3R	EA	3	0%	3	0.47	$ 70.00	$ 32.61	$ 158.40	$ 191.01	$ 573.04
384			3P/30A Non-Fusible Disconnect Switch, NEMA-1	EA	6	0%	6	0.42	$ 70.00	$ 29.65	$ 144.00	$ 173.65	$ 1,041.88
385			3P/60A Fused Disconnect Switch, NEMA 1	EA	22	0%	22	0.64	$ 70.00	$ 44.47	$ 216.00	$ 260.47	$ 5,730.35
386			3P/60A Fused Disconnect Switch, NEMA 3R	EA	3	0%	3	0.70	$ 70.00	$ 48.92	$ 237.60	$ 286.52	$ 859.55
387			3P/60A Non-Fusible Disconnect Switch, NEMA-1	EA	1	0%	1	0.64	$ 70.00	$ 44.47	$ 216.00	$ 260.47	$ 260.47
388			3P/100A Fused Disconnect Switch, NEMA 1	EA	9	0%	9	1.24	$ 70.00	$ 86.47	$ 420.00	$ 506.47	$ 4,558.24
389			3P/100A Non-Fusible, Lockable Disconnect Switch With Auxiliary Contacts	EA	4	0%	4	1.24	$ 70.00	$ 86.47	$ 420.00	$ 506.47	$ 2,025.88
390			3P/125A Disconnect Switch	EA	1	0%	1	2.79	$ 70.00	$ 195.59	$ 950.00	$ 1,145.59	$ 1,145.59
391			3P/125A/200AF Fused Disconnect Switch	EA	1	0%	1	3.35	$ 70.00	$ 234.71	$ 1,140.00	$ 1,374.71	$ 1,374.71
392			3P/150A Disconnect Switch	EA	5	0%	5	2.79	$ 70.00	$ 195.59	$ 950.00	$ 1,145.59	$ 5,727.94
393			3P/200A NF Disconnect Switch	EA	10	0%	10	2.79	$ 70.00	$ 195.59	$ 950.00	$ 1,145.59	$ 11,455.88
394			3P/200A Fused Disconnect Switch, NEMA 1	EA	1	0%	1	2.88	$ 70.00	$ 201.60	$ 1,140.00	$ 1,341.60	$ 1,341.60
395			3P/250A Disconnect Switch	EA	1	0%	1	3.15	$ 70.00	$ 220.50	$ 2,400.00	$ 2,620.50	$ 2,620.50
396			3P/400A Disconnect Switch	EA	11	0%	11	3.48	$ 70.00	$ 243.60	$ 2,400.00	$ 2,643.60	$ 29,079.60
397			3P/800A Disconnect Switch	EA	2	0%	2	4.55	$ 70.00	$ 318.50	$ 5,200.00	$ 5,518.50	$ 11,037.00
			GROUNDING										
398			#3/0 Bare Cu Concrete-Encased Electrode	EA	2	0%	2	1.50	$ 70.00	$ 105.00	$ 150.00	$ 255.00	$ 510.00
399			Ground Bus Bar	EA	13	0%	13	1.50	$ 70.00	$ 105.00	$ 120.00	$ 225.00	$ 2,925.00
400			3/4" X 10' Cu Grounding Rod	EA	29	0%	29	1.00	$ 70.00	$ 70.00	$ 35.00	$ 105.00	$ 3,045.00
401			Main Electrical Ground Bus Bar	EA	2	0%	2	2.50	$ 70.00	$ 175.00	$ 350.00	$ 525.00	$ 1,050.00
402			Pre Cast Lid With Traffic Rated Lid	EA	6	0%	6	1.50	$ 70.00	$ 105.00	$ 350.00	$ 455.00	$ 2,730.00
403			CHRISTY #N9 Rectangular Box	EA	6	0%	6	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 384.00
404			3/4" Ground Connector	EA	6	0%	6	0.30	$ 70.00	$ 21.00	$ 18.00	$ 39.00	$ 234.00
405			#6 CU Grounding Conductor	LF	30	0%	30	0.010	$ 70.00	$ 0.70	$ 0.86	$ 1.56	$ 46.80
406			#2 CU Grounding Conductor	LF	240	0%	240	0.013	$ 70.00	$ 0.91	$ 2.07	$ 2.98	$ 715.20
407			#1/0 CU Grounding Conductor	LF	30	10%	33	0.015	$ 70.00	$ 1.05	$ 2.77	$ 3.82	$ 126.06
408			#2/0 CU Grounding Conductor	LF	40	10%	44	0.016	$ 70.00	$ 1.12	$ 3.40	$ 4.52	$ 198.88
409			#3/0 Cu Grounding Conductor	LF	600	0%	600	0.017	$ 70.00	$ 1.19	$ 4.31	$ 5.50	$ 3,300.00
410			#4/0 Bare Stranded Cu Conductor	LF	898	10%	988	0.018	$ 70.00	$ 1.26	$ 5.37	$ 6.63	$ 6,551.59
411			1" PVC SCH 40 Conduit	LF	600	10%	660	0.06	$ 70.00	$ 4.48	$ 3.66	$ 8.14	$ 5,372.40
			PHOTOVOLTAIC										
			CONDUIT										
412			3/4" RGS Conduit	LF	1178	10%	1296	0.10	$ 70.00	$ 7.00	$ 5.00	$ 12.00	$ 15,549.60
412			2" RGS Conduit	LF	437	10%	481	0.18	$ 70.00	$ 12.46	$ 16.40	$ 28.86	$ 13,870.78
			CONDUCTOR										
413			#10 CU THHN/THWN	LF	3534	10%	3887	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 3,654.16
413			#6 CU THHN/THWN	LF	437	10%	481	0.010	$ 70.00	$ 0.70	$ 0.86	$ 1.56	$ 749.77
413			#1/0 CU THHN/THWN	LF	1748	10%	1922	0.015	$ 70.00	$ 1.05	$ 2.77	$ 3.82	$ 7,343.92
			DEVICE										
414			Solar DC Disconnect Switch, NEMA 3R	EA	3	0%	3	1.60	$ 70.00	$ 112.00	$ 385.00	$ 497.00	$ 1,491.00
415			3P/225A Lockable Disconnect Switch, NEMA 1	EA	2	0%	2	4.00	$ 70.00	$ 280.00	$ 2,400.00	$ 2,680.00	$ 5,360.00
416			25KW, PV Inverter	EA	1	0%	1	4.00	$ 70.00	$ 280.00	$ 3,500.00	$ 3,780.00	$ 3,780.00
417			60KW, PV Inverter	EA	2	0%	2	6.00	$ 70.00	$ 420.00	$ 6,500.00	$ 6,920.00	$ 13,840.00
418			590W PV Module	EA	169	0%	169	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 23,153.00
419		**By Owner**	PV Meter	EA	1	0%	1	0.00	$ 70.00	$ -	$ -	$ -	$ -
			POWER										
			CONDUIT										

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
420			3/4" EMT Conduit	LF	43096	10%	47406	0.06	$ 70.00	$ 4.34	$ 2.03	$ 6.37	$ 301,973.67
421			3/4" PVC SCH 40 Conduit	LF	2256	10%	2482	0.06	$ 70.00	$ 3.85	$ 2.18	$ 6.03	$ 14,964.05
422			3/4" RGS Conduit	LF	60	10%	66	0.10	$ 70.00	$ 7.00	$ 5.00	$ 12.00	$ 792.00
			CONDUCTOR										
423			#12 CU THHN/THWN	LF	106604	10%	117264	0.007	$ 70.00	$ 0.49	$ 0.25	$ 0.74	$ 86,775.66
424			#10 CU THHN/THWN	LF	36930	10%	40623	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 38,185.62
			DEVICE										
425			$MS: Motorized Shade Switch	EA	7	0%	7	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 357.00
426			$MW: Motorized Wall Switch	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 51.00
427			$PL: Project Lift Switch	EA	7	0%	7	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 357.00
428			$PS: Project Screen Switch	EA	7	0%	7	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 357.00
429			15A Equipment Connection	EA	8	0%	8	0.90	$ 70.00	$ 63.00	$ 45.00	$ 108.00	$ 864.00
430			20A Equipment Connection	EA	18	0%	18	0.90	$ 70.00	$ 63.00	$ 45.00	$ 108.00	$ 1,944.00
431			20A Equipment Connection NEMA 3R	EA	2	0%	2	0.90	$ 70.00	$ 63.00	$ 45.00	$ 108.00	$ 216.00
432			20A Motor Connection	EA	14	0%	14	0.90	$ 70.00	$ 63.00	$ 45.00	$ 108.00	$ 1,512.00
433			30A Equipment Connection	EA	1	0%	1	0.90	$ 70.00	$ 63.00	$ 45.00	$ 108.00	$ 108.00
434			60A Equipment Connection	EA	2	0%	2	0.90	$ 70.00	$ 63.00	$ 45.00	$ 108.00	$ 216.00
435			100A Equipment Connection	EA	1	0%	1	0.90	$ 70.00	$ 63.00	$ 45.00	$ 108.00	$ 108.00
436			1000A Equipment Connection	EA	3	0%	3	0.90	$ 70.00	$ 63.00	$ 45.00	$ 108.00	$ 324.00
437			15A VFD Connection	EA	4	0%	4	0.80	$ 70.00	$ 56.00	$ 180.00	$ 236.00	$ 944.00
438			15A VFD Connection, NEMA 3R	EA	6	0%	6	0.80	$ 70.00	$ 56.00	$ 180.00	$ 236.00	$ 1,416.00
439			20A VFD Connection	EA	3	0%	3	0.80	$ 70.00	$ 56.00	$ 180.00	$ 236.00	$ 708.00
440			20A VFD Connection, NEMA 3R	EA	1	0%	1	0.80	$ 70.00	$ 56.00	$ 180.00	$ 236.00	$ 236.00
441			25A VFD Connection	EA	3	0%	3	0.80	$ 70.00	$ 56.00	$ 180.00	$ 236.00	$ 708.00
442			25A VFD Connection NEMA 3R	EA	1	0%	1	0.80	$ 70.00	$ 56.00	$ 180.00	$ 236.00	$ 236.00
443			40A VFD Connection	EA	17	0%	17	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 9,282.00
444			40A VFD Connection, NEMA 3R	EA	2	0%	2	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 1,092.00
445			50A VFD Connection	EA	7	0%	7	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 3,822.00
446			50 VFD Connection NEMA 3R	EA	8	0%	8	0.80	$ 70.00	$ 56.00	$ 180.00	$ 236.00	$ 1,888.00
447			60A VFD Connection	EA	3	0%	3	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 1,638.00
448			80A VFD Connection	EA	29	0%	29	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 15,834.00
449			80A VFD Connection NEMA 3R	EA	5	0%	5	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 2,730.00
450			100A VFD Connection	EA	6	0%	6	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 3,276.00
451			175A VFD Connection NEMA 3R	EA	3	0%	3	3.50	$ 70.00	$ 245.00	$ 1,200.00	$ 1,445.00	$ 4,335.00
452			225A VFD Connection	EA	3	0%	3	3.50	$ 70.00	$ 245.00	$ 1,200.00	$ 1,445.00	$ 4,335.00
453			400A VFD Connection	EA	6	0%	6	3.50	$ 70.00	$ 245.00	$ 1,200.00	$ 1,445.00	$ 8,670.00
454			Combination TV Outlet & Duplex Receptacle On Single Faceplate	EA	5	0%	5	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 245.00
455			Combination USB Duplex Receptacle Above Counter With (2) 5VDC, 2.1A USB	EA	5	0%	5	0.50	$ 70.00	$ 35.00	$ 55.00	$ 90.00	$ 450.00
456			Combination USB Duplex Receptacle With (2) 5VDC USB Charging Ports (1)	EA	16	0%	16	0.50	$ 70.00	$ 35.00	$ 55.00	$ 90.00	$ 1,440.00
457			Company Switch	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 51.00
458			Data Port For Electric Meter Integration	EA	64	0%	64	1.00	$ 70.00	$ 70.00	$ 320.00	$ 390.00	$ 24,960.00
459			Duplex Receptacle Above Counter With Decorator-Style Device And Faceplate	EA	18	0%	18	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 882.00
460			Duplex Receptacle Ceiling-Mounted With Decorator-Style Device And Faceplate	EA	12	0%	12	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 588.00
461			Duplex Receptacle Horizontally-Mounted With Decorator-Style Device And Facep	EA	220	0%	220	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 10,780.00
462			Duplex Receptacle With Decorator-Style Device And Faceplate	EA	272	0%	272	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 13,328.00
463			Duplex Receptacle, DECORATOR STYLE Device & Faceplate, Floor Mounted	EA	6	0%	6	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 294.00
464			GFCI Duplex Receptacle With Decorator-Style Device And Faceplate	EA	133	0%	133	0.50	$ 70.00	$ 35.00	$ 28.00	$ 63.00	$ 8,379.00
465			GFCI Duplex Receptacle Above Counter With Decorator-Style Device And Facepl	EA	45	0%	45	0.50	$ 70.00	$ 35.00	$ 28.00	$ 63.00	$ 2,835.00
466			GFCI Duplex Receptacle Under Counter With Decorator-Style Device And Facepl	EA	2	0%	2	0.50	$ 70.00	$ 35.00	$ 28.00	$ 63.00	$ 126.00
467			GFCI Duplex Receptacle With Decorator-Style Device And Faceplate, NEMA 5-1	EA	37	0%	37	0.50	$ 70.00	$ 35.00	$ 28.00	$ 63.00	$ 2,331.00
468			GFCI Duplex Receptacle With Decorator-Style Device And Faceplate, NEMA 5-2	EA	2	0%	2	0.50	$ 70.00	$ 35.00	$ 28.00	$ 63.00	$ 126.00
469			GFCI Duplex Receptacle With Decorator-Style Device And Faceplate, NEMA L14	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 28.00	$ 63.00	$ 63.00
470			GFCI Duplex Receptacle With Decorator-Style Device And Faceplate, NEMA L14	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 28.00	$ 63.00	$ 63.00
471			GFCI Half Controlled Duplex Receptacle Above Counter	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 28.00	$ 63.00	$ 63.00
472			GFCI Duplex Receptacle Weather Resistant With Decorator-Style Device An	EA	86	0%	86	0.50	$ 70.00	$ 35.00	$ 28.00	$ 63.00	$ 5,418.00
473			Fully Controlled Duplex Receptacle	EA	10	0%	10	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 490.00

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
474			Fully Controlled Duplex Receptacle, Above Standard	EA	2	0%	2	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 98.00
475			Half Controlled Duplex Receptacle	EA	58	0%	58	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 2,842.00
476			Half Controlled Quadruplex Receptacle	EA	48	0%	48	0.50	$ 70.00	$ 35.00	$ 22.00	$ 57.00	$ 2,736.00
477			Half Controlled Duplex Receptacle Above Counter	EA	3	0%	3	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 147.00
478			Half Controlled Quadruplex Receptacle, Above Standard	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 22.00	$ 57.00	$ 57.00
479			Emergency Power Off Button (For Generator)	EA	1	0%	1	1.00	$ 70.00	$ 70.00	$ 180.00	$ 250.00	$ 250.00
480			Quadruplex Receptacle Ceiling-Mounted With Decorator-Style Device And Facepl	EA	61	0%	61	0.50	$ 70.00	$ 35.00	$ 22.00	$ 57.00	$ 3,477.00
481			Quadruplex Receptacle With Decorator-Style Device And Faceplate	EA	43	0%	43	0.50	$ 70.00	$ 35.00	$ 22.00	$ 57.00	$ 2,451.00
482			Restroom Outlet	EA	44	0%	44	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 2,156.00
483			30A, Special Purpose Receptacle, NEMA L6-30R	EA	9	0%	9	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 441.00
484			50A, Special Purpose Receptacle, NEMA 6-50P	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 49.00
485			Special Purpose Receptacle	EA	3	0%	3	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 147.00
486			Special Purpose Receptacle Ceiling Mounted	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 49.00
487			Special Purpose Receptacle, NEMA 5-15P	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 49.00
488			Special Purpose Receptacle, NEMA 1-15R	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 49.00
489			Special Purpose Receptacle, NEMA 1-15S	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 49.00
490			Special Purpose Receptacle, NEMA 6-15R	EA	6	0%	6	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 294.00
491			Special Purpose Receptacle, NEMA L6-30R	EA	2	0%	2	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 98.00
492			Single Pole Switch	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 51.00
493			EV Charging Spot	EA	3	0%	3	3.00	$ 70.00	$ 210.00	$ 1,800.00	$ 2,010.00	$ 6,030.00
494			120V Hardwired, Electric Cord Reel With (2) Duplex Receptacle & GFCI	EA	10	0%	10	1.50	$ 70.00	$ 105.00	$ 420.00	$ 525.00	$ 5,250.00
495			120V Wall Receptacle	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 49.00
496			Above Ceiling Top-Down Motorized Shade Connection	EA	109	0%	109	0.90	$ 70.00	$ 63.00	$ 45.00	$ 108.00	$ 11,772.00
497			ADA Door Actuator Connection	EA	2	0%	2	0.90	$ 70.00	$ 63.00	$ 45.00	$ 108.00	$ 216.00
498			BAS Control Panel	EA	3	0%	3	7.00	$ 70.00	$ 490.00	$ 2,200.00	$ 2,690.00	$ 8,070.00
499			FB1: 4"L x 4"W Floor Box, ARLINGTON FLB3520, HUBBELL B2588/S3025,	EA	181	0%	181	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 11,584.00
500			FB2: 4" Round Cover, 3.14" Depth, LEW ELECTRIC MW-332-DA-A, HUBBEL	EA	48	0%	48	0.80	$ 70.00	$ 56.00	$ 110.00	$ 166.00	$ 7,968.00
501			FB8: 16.375"L x 12.5"W Floor Box, FSR RFL3-Q1G	EA	11	0%	11	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 704.00
502			FBO2: 14"L x 7.375"W Floor Box, LEGRAND XB814C520BK With (2) Non Cor	EA	11	0%	11	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 704.00
503			PT: 8.25"D Poke Thru, LEGRAND 6ATCFF##	EA	5	0%	5	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 2,730.00
504			PT2: 5.5"D Poke Thru, LEGRAND 4ATCP4R## With (2) Non Controlled Duplex	EA	16	0%	16	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 8,736.00
505			PT4: 7.25"D Poke Thru, LEGRAND 6ATCP## With (2) Non Controlled Duplex R	EA	4	0%	4	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 2,184.00
506			PT8: 11.25"D Poke Thru, LEGRAND 10ATCP## With (4) Non Controlled Duplex	EA	6	0%	6	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 3,276.00
			LIGHTING										
			CONDUIT										
507			3/4" EMT Conduit	LF	63386	10%	69724	0.06	$ 70.00	$ 4.34	$ 2.03	$ 6.37	$ 444,143.39
			CONDUCTOR										
508			#12 CU THHN/THWN	LF	52800	10%	58080	0.007	$ 70.00	$ 0.49	$ 0.25	$ 0.74	$ 42,978.92
509			#10 CU THHN/THWN	LF	83168	10%	91485	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 85,996.03
510			#8 CU THHN/THWN	LF	54190	10%	59609	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 70,934.89
			LIGHTING FIXTURES										
511			A1: Recessed LED Downlight, Nominal 4" Aperture With Bevel Trim, 50 Degree	EA	9	0%	9	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 3,087.00
512			A1, EM: Recessed LED Downlight, Nominal 4" Aperture With Bevel Trim, 50 De	EA	7	0%	7	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 2,401.00
513			BG: Battery Backup Bug Eye Fixture, ACUITY BRANDS LIGHTING EU2CMou	EA	20	0%	20	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 6,860.00
514			K1A: Recessed 70° Downlight - High Output, Recessed 4.5" Diameter Deep Regre	EA	148	0%	148	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 50,764.00
515			K1A, EM: Recessed 70° Downlight - High Output, Recessed 4.5" Diameter Deep I	EA	328	0%	328	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 112,504.00
516			K1B: Recessed 25° Downlight, Recessed 4.5" Diameter Deep Regress Round Ape	EA	20	0%	20	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 6,860.00
517			K1B, EM: Recessed 25° Downlight, Recessed 4.5" Diameter Deep Regress Round	EA	11	0%	11	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 3,773.00
518			K1C: Recessed 70° Downlight - Millwork Trim, Recessed 4.5" Diameter Deep Re	EA	8	0%	8	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 2,744.00
519			K1C, EM: Recessed 70° Downlight - Millwork Trim, Recessed 4.5" Diameter Dee	EA	4	0%	4	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 1,372.00
520			K1D: Recessed 70° Downlight - Low Output, Recessed 4.5" Diameter Deep Regre	EA	38	0%	38	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 13,034.00
521			K1D, EM: Recessed 70° Downlight - Low Output, Recessed 4.5" Diameter Deep I	EA	38	0%	38	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 13,034.00
522			K1F: Recessed 70° Downlight - Very High Output, Recessed 4.5" Diameter Deep	EA	25	0%	25	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 8,575.00
523			K1F, EM: Recessed 70° Downlight - Very High Output, Recessed 4.5" Diameter D	EA	18	0%	18	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 6,174.00
524			K2: Recessed Wall Washer, Recessed 4.5" Diameter Round Aperture Trimless Wa	EA	21	0%	21	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 7,203.00
525			K2, EM: Recessed Wall Washer, Recessed 4.5" Diameter Round Aperture Trimles	EA	10	0%	10	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 3,430.00

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
526			K3 (EA 8): Recessed Linear Perimeter Light - High Output, Recessed 5" Wide De	LF	142	0%	142	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 20,058.66
527			K3A (EA 18): Recessed Linear Perimeter Light - Low Output, Recessed 5" Wide I	LF	472	0%	472	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 66,482.91
528			K4 (EA 4): Living Room Niche Luminous White Panel Custom Shape Backlit Cei	LF	119	0%	119	0.60	$ 70.00	$ 42.00	$ 220.00	$ 262.00	$ 31,049.62
529			K5: Atrium 101 Downlight Recessed 4.5" Diameter Deep Regress Round Aperture	EA	17	0%	17	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 5,831.00
530			K5, EM: Atrium 101 Downlight Recessed 4.5" Diameter Deep Regress Round Ape	EA	17	0%	17	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 5,831.00
531			K6 (EA 9): Slot Track, INTERLUX / LINEA CREEKMounting: RecessedWatts: N	LF	224	0%	224	0.20	$ 70.00	$ 14.00	$ 85.00	$ 99.00	$ 22,194.81
532			K6A: Adjustable Track Light Track Mounted 3.5" Diameter Round Adjustable Ac	EA	63	0%	63	0.80	$ 70.00	$ 56.00	$ 140.00	$ 196.00	$ 12,348.00
533			K7: Grand Stair Wall Mounted Area Light, BEGA B24502Mounting: SurfaceWatt	EA	20	0%	20	0.90	$ 70.00	$ 63.00	$ 300.00	$ 363.00	$ 7,260.00
534			K8 (EA 18): Elevator Lantern Light, INTERLUX / LINEA WG-20LDL-SM-MM-	LF	64	0%	64	0.25	$ 70.00	$ 17.50	$ 95.00	$ 112.50	$ 7,201.13
535			K9 (EA 2): Beacon Wall Linear Wash, LUMENPULSE LOGN-7W-48V-24-30K-	LF	44	0%	44	0.60	$ 70.00	$ 42.00	$ 220.00	$ 262.00	$ 11,535.86
536			K11: Event Space Track Singlet, ERCO NOT SPECIFIEDMounting: Not Specifie	EA	14	0%	14	0.80	$ 70.00	$ 56.00	$ 140.00	$ 196.00	$ 2,744.00
537			K12 (EA 11): Bendable Cove in Event Space Surface Mounted 0.75" Wide Field C	LF	939	0%	939	0.25	$ 70.00	$ 17.50	$ 95.00	$ 112.50	$ 105,643.13
538			K13: Low Glare Downlight in Event Space Recessed 1.75" Wide Low Glare Reces	EA	59	0%	59	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 20,237.00
539			K13, EM: Low Glare Downlight in Event Space Recessed 1.75" Wide Low Glare I	EA	57	0%	57	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 19,551.00
540			K14 (EA 1): Flexible Linear Under Bar Surface Mounted 6" Wide Field Curvable	LF	37	0%	37	0.25	$ 70.00	$ 17.50	$ 95.00	$ 112.50	$ 4,146.75
541			K16 (EA 9): Level 5 Bar Pendant Cable Mounted 3.5" Wide Decorative Pendant w	LF	30	0%	30	0.25	$ 70.00	$ 17.50	$ 95.00	$ 112.50	$ 3,380.63
542			K17 (EA 13): Living Room Seating Linear, QTL TILT-01-SW-1.0-30-DRY-FR-[V	LF	300	0%	300	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 42,239.37
543			K18A (EA 16): Direct/Indirect Linear Pendant, High Power Cable Mounted 3.5" V	LF	148	0%	148	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 20,876.46
544			K18A, EM (EA 10): Direct/Indirect Linear Pendant, High Power Cable Mounted 3	LF	101	0%	101	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 14,279.07
545			K18B (EA 13): Direct/Indirect Linear Pendant, Mid Power Cable Mounted 3.5" W	LF	102	0%	102	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 14,328.42
546			K18C (EA 15): Direct/Indirect Linear Pendant, Tunable White Cable Mounted 3.5	LF	143	0%	143	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 20,178.51
547			K18C, EM (EA 9): Direct/Indirect Linear Pendant, Tunable White Cable Mounted	LF	111	0%	111	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 15,696.12
548			K18D (EA 13): Cable Mounted 3.5" Wide Direct/Indirect Linear Pendant, FLUXV	LF	103	0%	103	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 14,551.20
549			K19 (EA 9): 4" Recessed Linear LED Light with Notched Optical System, FLUXV	LF	72	0%	72	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 10,106.88
550			K19, EM (EA 1): 4" Recessed Linear LED Light with Notched Optical System, FL	LF	8	0%	8	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 1,094.16
551			K20: 2X2 Recessed Architectural Troffer with Center Diffuser, FOCAL POINT FI	EA	90	0%	90	1.00	$ 70.00	$ 70.00	$ 260.00	$ 330.00	$ 29,700.00
552			K20, EM: 2X2 Recessed Architectural Troffer with Center Diffuser, FOCAL POIN	EA	52	0%	52	1.00	$ 70.00	$ 70.00	$ 260.00	$ 330.00	$ 17,160.00
553			K20A: 2X4 Recessed Architectural Troffer with Center Diffuser, FOCAL POINT	EA	7	0%	7	1.00	$ 70.00	$ 70.00	$ 260.00	$ 330.00	$ 2,310.00
554			K20A, EM: 2X4 Recessed Architectural Troffer with Center Diffuser, FOCAL PO	EA	3	0%	3	1.00	$ 70.00	$ 70.00	$ 260.00	$ 330.00	$ 990.00
555			K20B: 2X4 Recessed Architectural Troffer with Center Diffuser, FOCAL POINT	EA	2	0%	2	1.00	$ 70.00	$ 70.00	$ 260.00	$ 330.00	$ 660.00
556			K21: Surface Mounted 5.75" Wide Square Cylinder Light Fixture with Accent Lig	EA	25	0%	25	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 8,575.00
557			K21, EM: Surface Mounted 5.75" Wide Square Cylinder Light Fixture with Accen	EA	10	0%	10	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 3,430.00
558			K22: Recessed Flangeless White Track, ERCO 78342.023 + 85558.023Mounting:	EA	352	0%	352	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 120,736.00
559			K22 (EA 352): Recessed Flangeless White Track, ERCO 78342.023 + 85558.023M	LF	7223	0%	7223	0.20	$ 70.00	$ 14.00	$ 85.00	$ 99.00	$ 715,049.28
560			K22, EM (EA 2): Recessed Flangeless White Track, ERCO 78342.023 + 85558.02	LF	12	0%	12	0.20	$ 70.00	$ 14.00	$ 85.00	$ 99.00	$ 1,143.45
561			K26: Fiber Optic System with Surface Mounted 2" Round Fixtures Mounted to Ca	EA	309	0%	309	2.00	$ 70.00	$ 140.00	$ 950.00	$ 1,090.00	$ 336,810.00
562			K27 (EA 51): Restroom Recessed Linear Perimeter Light, FINELITE HP-2 WS-4I	LF	491	0%	491	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 69,201.39
563			K27, EM (EA 1): Restroom Recessed Linear Perimeter Light, FINELITE HP-2 WS	LF	6	0%	6	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 836.13
564			K30 (EA 22): 3" Direct / Indirect Linear Pendant, FINELITE HP-3-P-ID-[LENGT	LF	457	0%	457	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 64,401.75
565			K31: LED Striplight - Surface, Surface Mounted 3" Wide LED Striplight with Dro	EA	42	0%	42	0.90	$ 70.00	$ 63.00	$ 300.00	$ 363.00	$ 15,246.00
566			K31, EM: LED Striplight - Surface, Surface Mounted 3" Wide LED Striplight with	EA	19	0%	19	0.90	$ 70.00	$ 63.00	$ 300.00	$ 363.00	$ 6,897.00
567			K31A: LED Striplight - Pendant, 3" Wide LED Striplight with Drop Lens in Paint	EA	40	0%	40	1.20	$ 70.00	$ 84.00	$ 420.00	$ 504.00	$ 20,160.00
568			K31A, EM: LED Striplight - Pendant, 3" Wide LED Striplight with Drop Lens in I	EA	26	0%	26	1.20	$ 70.00	$ 84.00	$ 420.00	$ 504.00	$ 13,104.00
569			K31B: LED Striplight - High Output, Surface Mounted 3" Wide LED Striplight wi	EA	25	0%	25	1.20	$ 70.00	$ 84.00	$ 420.00	$ 504.00	$ 12,600.00
570			K36: LED Striplight, Surface Mounted 4' Wide Industrial Strip Light with Frosted	EA	14	0%	14	0.90	$ 70.00	$ 63.00	$ 300.00	$ 363.00	$ 5,082.00
571			K36, EM: LED Striplight, Surface Mounted 4' Wide Industrial Strip Light with Fro	EA	28	0%	28	0.90	$ 70.00	$ 63.00	$ 300.00	$ 363.00	$ 10,164.00
572			K37: Wall Sconce, Wall Mounted 12" Wide Wedge-Shaped Sconce, LITHONIA V	EA	2	0%	2	0.70	$ 70.00	$ 49.00	$ 210.00	$ 259.00	$ 518.00
573			K38 (EA 5): Cove Light, Surface Mounted 1" Wide Linear Cove Strip, VODE 707	LF	142	0%	142	0.25	$ 70.00	$ 17.50	$ 95.00	$ 112.50	$ 15,979.50
574			K39: Restroom Downlight, Recessed 4.5" Diameter Round Aperture Trimless Dov	EA	25	0%	25	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 8,575.00
575			K39, EM: Restroom Downlight, Recessed 4.5" Diameter Round Aperture Trimless	EA	34	0%	34	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 11,662.00
576			K40, EM: Gallery Portal Downlight, Recessed 2" Diameter Round Aperture Triml	EA	10	0%	10	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 3,430.00
577			K40A, EM: Gallery Portal Downlight, Recessed 2" Diameter Round Aperture Mill	EA	18	0%	18	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 6,174.00
578			K41: Recessed Adjustable, Recessed 4.5" Diameter Round Aperture Trim Adjustal	EA	2	0%	2	1.00	$ 70.00	$ 70.00	$ 320.00	$ 390.00	$ 780.00
579			K42 (EA 11): Undercabinet Task Light, Surface Mounted 1" Wide Linear Underca	LF	221	0%	221	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 31,227.27
580			K43 (EA 7): Cove Light at Elevator Bank, QTL TH1SW-USA-6.0HE-30-DRY-ST	LF	244	0%	244	0.25	$ 70.00	$ 17.50	$ 95.00	$ 112.50	$ 27,396.00
581			K44 (EA 11): Surface Mounted Linear, Lower Level Linear 3" Slotlight, VODE 8(	LF	43	0%	43	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 5,999.55
582			K44, EM (EA 4): Surface Mounted Linear, Lower Level Linear 3" Slotlight, VOD	LF	20	0%	20	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 2,838.33

DETAILED BREAKDOWN OF ITEMS

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+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
583			K45, EM (EA 4): Meeting Room Level 5 Pendant, LIGHTNET 807-NX3-SL-[LEI	LF	99	0%	99	0.25	$ 70.00	$ 17.50	$ 95.00	$ 112.50	$ 11,153.25
584			K46 (EA 4): Glowing Jewelbox Cove, BEULUX RG-D10-30-CS-BR-DUR-[LEN	LF	51	0%	51	0.25	$ 70.00	$ 17.50	$ 95.00	$ 112.50	$ 5,780.25
585			KD2: Decorative Spoke Pendant, Cone, Cable Mounted 14" Round Decorative Per	EA	3	0%	3	1.20	$ 70.00	$ 84.00	$ 420.00	$ 504.00	$ 1,512.00
586			KD3: Decorative Pendant, Recycled Fluted Bell Pendant Lamp, MUUTO UTBPE	EA	5	0%	5	1.20	$ 70.00	$ 84.00	$ 420.00	$ 504.00	$ 2,520.00
587			KX2 (EA 6): Seating and Wall Linear Toe Kick Light, Exterior Rated Surface Mou	LF	207	0%	207	0.25	$ 70.00	$ 17.50	$ 95.00	$ 112.50	$ 23,254.88
588			KX3: Building Façade Uplight, ERCO 34928.023Mounting: SurfaceWatts: 88 W	EA	25	0%	25	0.90	$ 70.00	$ 63.00	$ 300.00	$ 363.00	$ 9,075.00
589			KX4: Handrail Light, Small Round Lightpod Integrated into Handrails at Ramps a	EA	29	0%	29	0.60	$ 70.00	$ 42.00	$ 240.00	$ 282.00	$ 8,178.00
590			KX4, EM: Handrail Light, Small Round Lightpod Integrated into Handrails at Ran	EA	24	0%	24	0.60	$ 70.00	$ 42.00	$ 240.00	$ 282.00	$ 6,768.00
591			KX5 (EA 8): Wall Mounted Linear Egress, Exterior Rated Wall Surface Mounted	LF	28	0%	28	0.30	$ 70.00	$ 21.00	$ 120.00	$ 141.00	$ 3,980.43
592			KX6: Recessed Downlight, Exterior Rated Downlight, 4.5" Round Recessed Dow	EA	1	0%	1	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 343.00
593			KX6, EM: Recessed Downlight, Exterior Rated Downlight, 4.5" Round Recessed	EA	1	0%	1	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 343.00
594			KX7: Exterior Downlight, Recessed 4.5" Diameter Round Downlight with 32 Deg	EA	45	0%	45	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 15,435.00
595			KX7, EM: Exterior Downlight, Recessed 4.5" Diameter Round Downlight with 32	EA	21	0%	21	0.90	$ 70.00	$ 63.00	$ 280.00	$ 343.00	$ 7,203.00
596			KX8 (EA 10): Banner Grazing Downlight, LUMENPULSE LFP-CH-[CERTI]-12	LF	30	0%	30	0.60	$ 70.00	$ 42.00	$ 220.00	$ 262.00	$ 7,854.76
597			P1: 4'L X 3"H X 3"W LED Striplight With Drop Lens, White Paint Finish, Adjust	EA	175	0%	175	0.90	$ 70.00	$ 63.00	$ 300.00	$ 363.00	$ 63,525.00
598			P1, EM: 4'L X 3"H X 3"W LED Striplight With Drop Lens, White Paint Finish, A	EA	147	0%	147	0.90	$ 70.00	$ 63.00	$ 300.00	$ 363.00	$ 53,361.00
599			R2 (EA 1): 3/4"W X 1/2"H LED Rail, Assembly With Flexibility In The Horizont	LF	8	0%	8	0.25	$ 70.00	$ 17.50	$ 95.00	$ 112.50	$ 882.00
600			W1: 4'L X 6"W X 4"H LED Gasketed Striplight With IP65+ Rating, Acrylic Lens,	EA	14	0%	14	0.90	$ 70.00	$ 63.00	$ 300.00	$ 363.00	$ 5,082.00
601			W1, EM: 4'L X 6"W X 4"H LED Gasketed Striplight With IP65+ Rating, Acrylic	EA	35	0%	35	0.90	$ 70.00	$ 63.00	$ 300.00	$ 363.00	$ 12,705.00
602			W2, EM: 4'L X 4"H X 4"W LED Striplight With Frosted Lens, White Paint Finish	EA	16	0%	16	0.90	$ 70.00	$ 63.00	$ 300.00	$ 363.00	$ 5,808.00
603			XP: 13"L X 4.5"W X 12"H LED Edge-Lit Exit Sign With 5-Year Warranty, White	EA	118	0%	118	0.50	$ 70.00	$ 35.00	$ 95.00	$ 130.00	$ 15,340.00
604			XR: 13"L X 1.75"W X 8"H LED Edge-Lit Exit Sign With 5-Year Warranty, White	EA	6	0%	6	0.50	$ 70.00	$ 35.00	$ 95.00	$ 130.00	$ 780.00
605			XW: 16"L X 4.5"W X 8.5"H LED Edge-Lit Exit Sign With 5-Year Warranty, Brus	EA	110	0%	110	0.50	$ 70.00	$ 35.00	$ 95.00	$ 130.00	$ 14,300.00
606		**Schedule Not Given**	Track Head	EA	7	0%	7	0.80	$ 70.00	$ 56.00	$ 140.00	$ 196.00	$ 1,372.00
607			XS: Exit Sign Light	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 95.00	$ 130.00	$ 130.00
608			Provide Temporary Exist Sign Remove End Of Construction	EA	6	0%	6	0.50	$ 70.00	$ 35.00	$ 95.00	$ 130.00	$ 780.00
			LIGHTING CONTROL										
609			3-Way Switch	EA	11	0%	11	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 539.00
610			4-Way Switch	EA	3	0%	3	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 153.00
611			CS: Occupancy Ceiling Sensor	EA	5	0%	5	0.50	$ 70.00	$ 35.00	$ 65.00	$ 100.00	$ 500.00
612			DT: Occupancy Ceiling Sensor	EA	42	0%	42	0.50	$ 70.00	$ 35.00	$ 65.00	$ 100.00	$ 4,200.00
613			Dual-Technology Low Voltage Occupancy Sensor Wall Switch With Raise/Lo	EA	5	0%	5	0.50	$ 70.00	$ 35.00	$ 120.00	$ 155.00	$ 775.00
614		**Legend Assumed**	Low Voltage On/Off And Dimming Switch With One Control Zone, NLIGHT N	EA	18	0%	18	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 918.00
615			Occupancy Sensor Switch	EA	6	0%	6	0.50	$ 70.00	$ 35.00	$ 65.00	$ 100.00	$ 600.00
616			Single Pole Switch	EA	29	0%	29	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 1,479.00
617			SK3: 3-Way Switch	EA	11	0%	11	0.50	$ 70.00	$ 35.00	$ 14.00	$ 49.00	$ 539.00
618			SK5: Single Pole Switch	EA	23	0%	23	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 1,173.00
619			SP: Single Pole Switch	EA	67	0%	67	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 3,417.00
620			STS: Time Switch	EA	4	0%	4	0.80	$ 70.00	$ 56.00	$ 180.00	$ 236.00	$ 944.00
621			M: Wall Switch	EA	31	0%	31	0.50	$ 70.00	$ 35.00	$ 16.00	$ 51.00	$ 1,581.00
622			R: Wall Switch With Occupancy Sensor	EA	50	0%	50	0.50	$ 70.00	$ 35.00	$ 65.00	$ 100.00	$ 5,000.00
623			T: Dual Technology Wall Switch Sensor	EA	16	0%	16	0.50	$ 70.00	$ 35.00	$ 120.00	$ 155.00	$ 2,480.00
624			O: Dual Technology Wall Switch Sensor With Dimming	EA	28	0%	28	0.50	$ 70.00	$ 35.00	$ 120.00	$ 155.00	$ 4,340.00
625			S: Wired Sensor	EA	26	0%	26	0.50	$ 70.00	$ 35.00	$ 65.00	$ 100.00	$ 2,600.00
626			AA: Occupancy/Vacancy Sensor	EA	111	0%	111	0.50	$ 70.00	$ 35.00	$ 65.00	$ 100.00	$ 11,100.00
			MISCELLANEOUS										
627			Junction Box	EA	336	0%	336	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 21,504.00

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
628			Junction Box Ceiling Mounted	EA	48	0%	48	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 3,072.00
629			Junction Box Wall Mounted	EA	137	0%	137	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 8,768.00
630			Junction Box Wall Mounted, NEMA 5-15P	EA	1	0%	1	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 64.00
631			4" Square Flush With Ceiling Mounted Junction Box	EA	34	0%	34	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 2,176.00
632			Pull Box	EA	12	0%	12	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 768.00
633			Transition Box	EA	2	0%	2	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 128.00
634			Unistrut Rack Anchored To Floor	EA	11	0%	11	2.00	$ 70.00	$ 140.00	$ 180.00	$ 320.00	$ 3,520.00
635			On-Grade Pillbox, NEMA 4X	EA	2	0%	2	2.00	$ 70.00	$ 140.00	$ 450.00	$ 590.00	$ 1,180.00
			SAW CUT										
636			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	2256	0%	2256	0.10	$ 70.00	$ 7.00	$ 2.64	$ 9.64	$ 21,747.84
												SUBTOTAL	**$ 8,190,425**
			COMMUNICATION										
			TELECOMMUNICATION										
			CONDUIT										
637			3/4" EMT Conduit Up To Ceiling	LF	305	10%	336	0.05	$ 70.00	$ 3.15	$ 0.61	$ 3.76	$ 1,261.48
638			1" EMT Conduit Up To Ceiling	LF	3855	10%	4241	0.06	$ 70.00	$ 3.85	$ 1.05	$ 4.90	$ 20,778.45
639			1-1/4" EMT Conduit Up To Ceiling	LF	390	10%	429	0.07	$ 70.00	$ 4.90	$ 1.60	$ 6.50	$ 2,788.50
640			2" EMT Conduit Up To Ceiling	LF	60	10%	66	0.10	$ 70.00	$ 7.00	$ 2.64	$ 9.64	$ 636.24
			DEVICES										
641	T103, T210-A, T210-B, T210-C, T210-L1B, T210-L2C, T210-L3A, T210-L3B, T212-A, T212-B, T213-A, T213-B, T214-A, T214-B, T214-D, T-215-A, T215-B, T216-A, T217-A, SC001, SC100, SC210-L3A, SC210-L3B, SC210-L2C, SC210-L1B, SC210-A, SC210-C, SC210-B, SC211-B, SC212-A, SC212-B & SC212-D		1 Gang Back Box	EA	12	0%	12	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 768.00
642			2 Gang Back Box	EA	198	0%	198	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 12,672.00
643			2 Gang Back Box With Single Gang 1-Port Face Plate	EA	8	0%	8	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 512.00
644			2 Gang Back Box With Single Gang 2-Port Face Plate	EA	13	0%	13	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 832.00
645			2 Gang Back Box With Single Gang 4-Port Face Plate	EA	106	0%	106	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 6,784.00
646			2-Port Biscuit Box	EA	101	0%	101	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 6,464.00
647			Back Box	EA	37	0%	37	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 2,368.00
648			Ceiling Mounted Box	EA	243	0%	243	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 15,552.00
649			Floor Mounted Box	EA	23	0%	23	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 1,472.00
650			Junction Box, Ceiling Mounted With Blank Face Plate	EA	83	0%	83	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 5,312.00
651			MPTL: Modular Plug Terminated Link	EA	477	0%	477	0.25	$ 70.00	$ 17.50	$ 24.00	$ 41.50	$ 19,795.50
652			PT: Poke Thru	EA	5	0%	5	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 2,730.00
653			PT4: Poke Thru	EA	4	0%	4	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 2,184.00
654			PT8: Poke Thru, 2-Port Face Plate	EA	8	0%	8	1.80	$ 70.00	$ 126.00	$ 420.00	$ 546.00	$ 4,368.00
655			Shared Floor Box With 6-Port Face Plate	EA	11	0%	11	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 704.00
			SECURITY										
			CONDUIT										
656			3/4" EMT Conduit W/ Pull String	LF	7070	10%	7777	0.05	$ 70.00	$ 3.15	$ 0.61	$ 3.76	$ 29,241.52
			DEVICES										
657			Back Box	EA	833	0%	833	0.60	$ 70.00	$ 42.00	$ 22.00	$ 64.00	$ 53,312.00
												SUBTOTAL	**$ 190,536**
			ELECTRONUC SAFETY AND SECURITY										
			FIRE ALARM										
			CONDUIT										
658			3/4" EMT Conduit	LF	19325	10%	21257	0.06	$ 70.00	$ 4.34	$ 2.03	$ 6.37	$ 135,410.13
			CONDUCTOR										
659			#16 CU THHN/THWN	LF	22882	10%	25170	0.006	$ 70.00	$ 0.42	$ 0.15	$ 0.57	$ 14,347.18
660			#14 CU THHN/THWN	LF	15768	10%	17344	0.006	$ 70.00	$ 0.42	$ 0.17	$ 0.59	$ 10,233.24
			DEVICES										
661			Duct Smoke Detector	EA	166	0%	166	0.79	$ 70.00	$ 54.95	$ 165.00	$ 219.95	$ 36,511.70
662			Duct Smoke Detector, Addressable Relay, Remote Test Switch With Indicating Li	EA	2	0%	2	1.12	$ 70.00	$ 78.40	$ 173.40	$ 251.80	$ 503.60
663			Emergency Call Box	EA	13	0%	13	1.25	$ 70.00	$ 87.50	$ 184.99	$ 272.49	$ 3,542.37

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
664	FAE200-L1C, FAE200-L1D, FAE200-A, FAE210-L3A, FAE210-L2C, FAE210A, FAE210B, FAE310C, FA215B & FA216A		Emergency Responder Radio Communications Annunciator Panel	EA	1	0%	1	7.00	$ 70.00	$ 490.00	$ 2,200.00	$ 2,690.00	$ 2,690.00
665			Fire Alarm Addressable Interface Module (Input)	EA	113	0%	113	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 15,481.00
666			Fire Alarm Addressable Relay (Input)	EA	18	0%	18	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 2,466.00
667			Fire Alarm Addressable Relay (Output)	EA	8	0%	8	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 1,096.00
668			Fire Alarm Air Sampling Control Panel	EA	14	0%	14	7.00	$ 70.00	$ 490.00	$ 2,200.00	$ 2,690.00	$ 37,660.00
669			Fire Alarm Amplifier Panel	EA	7	0%	7	7.00	$ 70.00	$ 490.00	$ 2,200.00	$ 2,690.00	$ 18,830.00
670			Fire Alarm Pull Station	EA	19	0%	19	0.80	$ 70.00	$ 56.00	$ 110.00	$ 166.00	$ 3,154.00
671			Fire Alarm Pull Station, WP	EA	1	0%	1	0.80	$ 70.00	$ 56.00	$ 110.00	$ 166.00	$ 166.00
672			Fire Alarm Speaker W/Strobe, Ceiling Mounted, 110CD	EA	15	0%	15	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 2,055.00
673			Fire Alarm Speaker W/Strobe, Ceiling Mounted, 135CD	EA	2	0%	2	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 274.00
674			Fire Alarm Speaker W/Strobe, Ceiling Mounted, 15CD	EA	51	0%	51	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 6,987.00
675			Fire Alarm Speaker W/Strobe, Ceiling Mounted, 30CD	EA	40	0%	40	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 5,480.00
676			Fire Alarm Speaker W/Strobe, Wall Mounted, 110CD	EA	13	0%	13	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 1,781.00
677			Fire Alarm Speaker W/Strobe, Wall Mounted, 120CD	EA	1	0%	1	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 137.00
678			Fire Alarm Speaker W/Strobe, Wall Mounted, 15CD	EA	33	0%	33	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 4,521.00
679			Fire Alarm Speaker W/Strobe, Wall Mounted, 30CD	EA	12	0%	12	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 1,644.00
680			Fire Alarm Speaker, Wall Mounted	EA	8	0%	8	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 1,096.00
681			Fire Alarm Strobe, Ceiling Mounted	EA	15	0%	15	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 2,055.00
682			Fire Alarm Terminal Cabinet	EA	1	0%	1	1.50	$ 70.00	$ 105.00	$ 450.00	$ 555.00	$ 555.00
683			Fire Alarm W/Strobe, Ceiling Mounted, 75CD	EA	113	0%	113	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 15,481.00
684			Fire Alarm W/Strobe, Wall Mounted, 75CD	EA	29	0%	29	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 3,973.00
685			Heat Detector	EA	5	0%	5	0.60	$ 70.00	$ 42.00	$ 85.00	$ 127.00	$ 635.00
686			Magnetic Door Hold Open Device	EA	20	0%	20	0.50	$ 70.00	$ 35.00	$ 120.00	$ 155.00	$ 3,100.00
687			Monitor Module	EA	1	0%	1	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 137.00
688			Notification Appliance Power Extender Panel	EA	5	0%	5	7.00	$ 70.00	$ 490.00	$ 2,200.00	$ 2,690.00	$ 13,450.00
689			Smoke Detector, Air Aspirating Port	EA	181	0%	181	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 24,797.00
690			Smoke Detector, Elevator Recall	EA	13	0%	13	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 1,781.00
691			Smoke Detector, Wall Mounted	EA	182	0%	182	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 24,934.00
692			Addressable Relay	EA	59	0%	59	0.60	$ 70.00	$ 42.00	$ 95.00	$ 137.00	$ 8,083.00
693			Fire Alarm Annunciator Panel	EA	1	0%	1	7.00	$ 70.00	$ 490.00	$ 2,200.00	$ 2,690.00	$ 2,690.00
												SUBTOTAL $	407,737
			UTILITIES										
			DISTRIBUTION										
	E100 & EE100		**CONDUIT**										
694			1" SCH 40 PVC Conduit	LF	78	10%	86	0.06	$ 70.00	$ 4.48	$ 3.66	$ 8.14	$ 698.41
695			1-1/2" SCH 40 PVC Conduit	LF	78	10%	86	0.08	$ 70.00	$ 5.60	$ 6.19	$ 11.79	$ 1,011.58
696			2" SCH 40 PVC Conduit	LF	78	10%	86	0.09	$ 70.00	$ 6.23	$ 8.92	$ 15.15	$ 1,299.87
			CONDUCTOR							$ -			
697			#8 CU THHN/THWN	LF	78	10%	86	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 102.10
698			#6 CU THHN/THWN	LF	234	10%	257	0.010	$ 70.00	$ 0.70	$ 0.86	$ 1.56	$ 401.54
			POWER										
			CONDUIT										
699			3/4" EMT Conduit	LF	730	10%	803	0.06	$ 70.00	$ 4.34	$ 2.03	$ 6.37	$ 5,115.11
700			3/4" RGS Conduit	LF	45	10%	50	0.10	$ 70.00	$ 7.00	$ 5.00	$ 12.00	$ 594.00
			CONDUCTOR										
701			#10 CU THHN/THWN	LF	730	10%	803	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 754.82
702			#8 CU THHN/THWN	LF	1406	10%	1547	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 1,840.45
			DEVICE										
703			Duplex Receptacle, GFCI, WR	EA	4	0%	4	0.25	$ 70.00	$ 17.50	$ 25.54	$ 43.04	$ 172.16
			SITE LIGHTING										
			CONDUIT										
704			1" SCH 40 PVC Conduit	LF	193	10%	212	0.06	$ 70.00	$ 4.48	$ 3.66	$ 8.14	$ 1,728.12

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			CONDUCTOR										
705			#10 CU THHN/THWN	LF	579	10%	637	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 598.69
			LIGHTING FIXTURES										
706			Pole Mounted Light, Single Head	EA	2	0%	2	1.49	$ 70.00	$ 103.95	$ 159.99	$ 263.94	$ 527.88
707			25' Square Steel Pole	EA	2	0%	2	6.85	$ 70.00	$ 479.50	$ 1,483.92	$ 1,963.42	$ 3,926.84
708			Concrete Base	EA	2	0%	2	1.78	$ 70.00	$ 124.60	$ 269.00	$ 393.60	$ 787.20
			MISCELLANEOUS										
			TRENCHING & BACKFILLING										
709			Excavation & Backfilling (2' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	542	0%	542	0.10	$ 70.00	$ 7.00	$ -	$ 7.00	$ 3,794.00
												SUBTOTAL	**$ 23,353**

	PROJECTED COST	**$9,383,560**
OVERHEAD	**15%**	**$1,407,534**
PROFIT	**15%**	**$1,407,534**
SUB-CONTRACTOR MARGIN	**10%**	**$257,443**
INSURANCE	**3%**	**$281,507**
CONTINGENCY	**5%**	**$469,178**
TAX	**6%**	**$378,848**
SUGGESTED BID		**$13,585,604**

Notes:

1. Online sources are used for pricing.
2. Prices can vary depending upon field conditions.

ELECTRICAL ESTIMATION

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			GENERAL REQUIREMENTS		
1	`		Permits	LS	1
2			Supervision and Coordination	LS	1
3			Submittals and Shop drawings	LS	1
4			Final Cleaning	LS	1
5			Mobilization Costs	LS	1
6			Temporary Control & Facilities	LS	1
7			Scaffolding	LS	1
			EXISTING CONDITIONS		
			DEMOLITION		
8	ED100, ED200-L2C, ED200-L1A, ED200-L1B, ED200-C, ED200-B, ED200-D, ED500 & ED501		Existing 4' Linear Light To Be Removed	EA	189
9			Existing Receptacle To Be Removed	EA	65
10			Existing Head To Be Removed	EA	382
11			Existing Switch To Be Removed	EA	19
12			Existing Wall Mounted Light To Be Removed	EA	3
13			Existing Track To Be Removed	LF	1446
14			Existing 810KW Diesel Generator To Be Removed	EA	1
15			Existing ATS-E To Be Removed	EA	1
16			Existing Transformer To Be Removed	EA	6
17			Existing MDP To Be Removed	EA	4
18			Existing MCC To Be Removed	EA	4
19			Existing SWBD To Be Removed	EA	1
20			Existing Exit Sign To Be Removed	EA	24
21			Existing Busway To Be Removed	EA	1
22			Existing EDP To Be Removed	EA	3
23			Existing 225A MLO, 208V Device To Be Removed	EA	1
24			Existing Can Light To Be Removed	EA	3
25			Existing Panel To Be Removed	EA	1
26			Existing Panel To Be Removed	EA	2
27			Existing 2'x2' LED Light To Be Removed	EA	6
28			Existing Floor Mounted Receptacle To Be Removed	EA	45
29			Existing Disconnect Switch To Be Removed	EA	2
30			Existing Circuit Breaker To Be Removed	EA	17
31			Existing Main Circuit Breaker To Be Removed	EA	2
32			Existing 600A Fuse To Be Removed	EA	3
33			Existing Duct Bank To Be Removed	LF	383
34			Existing EHH To Be Removed	EA	1
35			Existing Addressable Interface To Be Removed	EA	3
36			Existing Fire Alarm Devices To Be Removed	EA	3
37			Existing Heat Detector To Be Removed	EA	1
38			Existing Fire Alarm All Work With Associated Wiring & Conduit To Be Removed	SF	44222.5
			ELECTRICAL		
			DISTRIBUTION		
			DUCT BANK		
39			Duct Bank For (15) 4" Conduit	LF	85
40			2" Concrete Encased Duct Bank For (4) 4#500 KCMIL, #4/0 MC Cable	LF	21
			CONDUIT		
41			1" EMT Conduit	EA	587
42			1-1/4" EMT Conduit	EA	554

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ELECTRICAL ESTIMATION
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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
43			1-1/4" EMT Conduit With Pull String	EA	2
44			1-1/2" EMT Conduit	EA	338
45			2" EMT Conduit	EA	333
46			2-1/2" EMT Conduit	EA	192
47			3" EMT Conduit	EA	191
48			3-1/2" EMT Conduit	EA	841
49			4" EMT Conduit	EA	26
50			3" PVC SCH 40 Conduit	EA	5
51			3" PVC SCH 40 Conduit With Pullstring	EA	5
52			4" PVC SCH 40 Conduit	EA	7
53			4" PVC SCH 40 Conduit With Pullstring	EA	327
54			1" RGS Conduit	EA	26
55			1-1/4" RGS Conduit	EA	42
56			2" RGS Conduit	EA	2
			CONDUCTOR		
57			4#1/0, #6 MC Fire Rated Cable	EA	1
58			4#2/0, #4 MC Fire Rated Cable	EA	1
59			4#3/0, #3 MC Fire Rated Cable	EA	3
60			4#250 kcmil, #4 MC Fire Rated Cable	EA	1
61			4#350 kcmil, #2/0 MC Fire Rated Cable	EA	1
62			4#500 kcmil, #2/0 MC Fire Rated Cable	EA	3
63			4#500 kcmil, #3 MC Fire Rated Cable	EA	1
64			4#500 kcmil, #250 kcmil MC Fire Rated Cable	EA	12
65			#10 CU THHN/THWN	EA	33
66			#8 CU THHN/THWN	EA	143
67			#6 CU THHN/THWN	EA	41
68			#4 CU THHN/THWN	EA	65
69			#3 CU THHN/THWN	EA	13
70			#2 CU THHN/THWN	EA	58
71			#1 CU THHN/THWN	EA	2
72			#1/0 CU THHN/THWN	EA	28
73			#2/0 CU THHN/THWN	EA	52
74			#3/0 CU THHN/THWN	EA	19
75			#4/0 CU THHN/THWN	EA	37
76			#250 KCMIL CU THHN/THWN	EA	17
77			#300 KCMIL CU THHN/THWN	EA	0
78			#350 KCMIL CU THHN/THWN	EA	24
79			#400 KCMIL CU THHN/THWN	EA	115
80			#500 KCMIL CU THHN/THWN	EA	60
81			#600 KCMIL CU THHN/THWN	EA	5
			LUGS		
82			Compression Lug CU With 1-Hole , #8 CU Wire	EA	480
83			Heat Shrink Tubing for #8 CU Wire	EA	480
84			Compression Lug CU With 1-Hole , #6 CU Wire	EA	122
85			Heat Shrink Tubing for #6 CU Wire	EA	122
86			Compression Lug CU With 1-Hole , #4 CU Wire	EA	255
87			Heat Shrink Tubing for #4 CU Wire	EA	255
88			Compression Lug CU With 1-Hole , #3 CU Wire	EA	10
89			Heat Shrink Tubing for #3 CU Wire	EA	10
90			Compression Lug CU With 1-Hole , #2 CU Wire	EA	232
91			Heat Shrink Tubing for #2 CU Wire	EA	232
92			Compression Lug CU With 1-Hole , #1 CU Wire	EA	48
93			Heat Shrink Tubing for #1 CU Wire	EA	48
94			Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	102
95			Heat Shrink Tubing for #1/0 CU Wire	EA	102
96			Compression Lug CU With 1-Hole , #2/0 CU Wire	EA	158
97			Heat Shrink Tubing for #2/0 CU Wire	EA	158
98			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	126
99			Heat Shrink Tubing for #3/0 CU Wire	EA	126
100			Compression Lug CU With 1-Hole , #4/0 CU Wire	EA	126
101			Heat Shrink Tubing for #4/0 CU Wire	EA	126
102			Compression Lug CU With 1-Hole , #250 KCMIL CU Wire	EA	40
103			Heat Shrink Tubing for #250 KCMIL CU Wire	EA	40
104			Compression Lug CU With 1-Hole , #300 KCMIL CU Wire	EA	8
105			Heat Shrink Tubing for #300 KCMIL CU Wire	EA	8
106			Compression Lug CU With 1-Hole , #350 KCMIL CU Wire	EA	136
107			Heat Shrink Tubing for #350 KCMIL CU Wire	EA	136
108			Compression Lug CU With 1-Hole , #400 KCMIL CU Wire	EA	86

DETAILED BREAKDOWN OF ITEMS

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Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
109			Heat Shrink Tubing for #400 KCMIL CU Wire	EA	86
110			Compression Lug CU With 1-Hole , #500 KCMIL CU Wire	EA	400
111			Heat Shrink Tubing for #500 KCMIL CU Wire	EA	400
112			Compression Lug CU With 1-Hole , #600 KCMIL CU Wire	EA	96
113			Heat Shrink Tubing for #600 KCMIL CU Wire	EA	96
			CIRCUIT BREAKER		
114			1P/5A Breaker	EA	1
115			1P/10A Breaker	EA	2
116			1P/15A Breaker	EA	46
117			1P/15A Shunt Trip Breaker	EA	1
118			1P/20A Braker, GFPE Protection	EA	1
119			1P/20A Breaker	EA	2290
120			1P/20A GFCI Breaker	EA	10
121			1P/20A LSI Breaker	EA	9
122			1P/20A Shunt Trip Breaker	EA	1
123			1P/30A Breaker	EA	10
124			1P/30A GFCI Breaker	EA	1
125			2P/15A Breaker	EA	4
126			2P/20A Breaker	EA	12
127			2P/20A Shunt Trip Breaker	EA	2
128			2P/30A Breaker	EA	4
129			2P/35A Breaker	EA	2
130			2P/40A Breaker	EA	6
131			2P/40A GFCI Breaker	EA	1
132			2P/60A Breaker	EA	2
133			3P/10A Breaker	EA	2
134			3P/15A Breaker	EA	22
135			3P/15AT/100AF Breaker	EA	2
136			3P/20A Breaker	EA	77
137			3P/20AT/20AF Breaker	EA	4
138			3P/20AT/20AF LSI Breaker	EA	2
139			3P/20AT/100AF Breaker	EA	3
140			3P/20AT/100AF LSI Breaker, Adjustable Electronic Trip Type	EA	1
141			3P/25A Breaker	EA	8
142			3P/25AT/100AF Breaker	EA	1
143			3P/30A Breaker	EA	32
144			3P/30A LSI Breaker	EA	2
145			3P/30AT/30AF LSI Breaker	EA	1
146			3P/35A Breaker	EA	1
147			3P/40A Breaker	EA	33
148			3P/40AT/100AF Breaker	EA	3
149			3P/45A Breaker	EA	3
150			3P/45AT/100AF LSI Breaker	EA	1
151			3P/50A Breaker	EA	12
152			3P/50A LSI Breaker	EA	1
153			3P/50AT/100AF Breaker	EA	10
154			3P/50AT/100AF LSI Breaker, Adjustable Electronic Trip Type	EA	2
155			3P/60A Breaker	EA	14
156			3P/70A Breaker	EA	5
157			3P/70AT/100AF Breaker	EA	4
158			3P/80A Breaker	EA	34
159			3P/80AT/100AF Breaker	EA	5
160			3P/100A Breaker	EA	24
161			3P/100A LSI Breaker	EA	1
162			3P/100A MCB	EA	10
163			3P/100A Shunt Trip, LSI Breaker, Adjustable Electronic Trip Type	EA	3
164			3P/100AT/100AF Breaker	EA	10
165			3P/100AT/100AF LSI Breaker	EA	4
166			3P/100AT/100AF LSI Breaker, Adjustable Electronic Trip Type	EA	1
167			3P/100AT/100AF LSI-G Breaker	EA	1
168			3P/100AT/250AF Breaker	EA	1
169			3P/125A Breaker	EA	6
170			3P/125A MCB	EA	1

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
171			3P/125AT/200AF Breaker	EA	5
172			3P/125AT/250AF Breaker	EA	1
173			3P/125AT/250AF LSI Breaker	EA	1
174			3P/125AT/250AF LSI-G Breaker	EA	1
175			3P/150A MCB	EA	3
176			3P/175A Breaker	EA	11
177			3P/175AT/225AF LSI Breaker, Adjustable Electronic Trip Type	EA	3
178			3P/175AT/250AF LSI Breaker, Padlocking	EA	1
179			3P/175AT/250AF LSI-G Breaker	EA	2
180			3P/200A MCB	EA	15
181			3P/200A Shunt Trip, LSIG Breaker, Adjustable Electronic Trip Type	EA	1
182			3P/200AT/200AF LSI Breaker, Adjustable Electronic Trip Type	EA	2
183			3P/225A MCB	EA	7
184			3P/225AT/250AF LSI Breaker	EA	2
185			3P/250A Breaker	EA	1
186			3P/250A MCB	EA	4
187			3P/250AT/250AF Breaker	EA	7
188			3P/250AT/250AF LSI Breaker	EA	2
189			3P/250AT/250AF LSI Breaker, Adjustable Electronic Trip Type	EA	1
190			3P/250AT/250AF LSI-G Breaker	EA	1
191			3P/250AT/400AF LSI Breaker, Adjustable Electronic Trip Type	EA	1
192			3P/300AT/400AF LSI Breaker	EA	1
193			3P/300AT/400AF LSI Shut Trip Breaker	EA	1
194			3P/350AT/400AF LSI Breaker	EA	1
195			3P/400A MCB	EA	7
196			3P/400AT/400AF Breaker	EA	3
197			3P/400AT/400AF LSI Breaker	EA	2
198			3P/400AT/400AF LSI Breaker, Adjustable Electronic Trip Type	EA	1
199			3P/400AT/400AF LSI Breaker, Padlocking	EA	3
200			3P/400AT/400AF LSI-G Breaker	EA	11
201			3P/450AT/600AF LSI-G Breaker	EA	1
202			3P/600AT/600AF LSI Breaker	EA	1
203			3P/600AT/600AF LSI-G Breaker	EA	4
204			3P/1000A 100% Rated MCB	EA	1
205			3P/1600A 100% Rated MCB, ERMS	EA	1
206			3P/3000A 100% Rated AFCI MCB	EA	1
			PANEL		
207			Panel A: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Flush Mounted, N	EA	1
208			Panel B: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Flush Mounted, N	EA	1
209			Panel DP-HLR5B: 800A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface	EA	1
210			Panel DP-HLRLL3: 800A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface	EA	1
211			Panel DP-HLSLL3: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface	EA	1
212			Panel DP-HM4B: 800A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface	EA	1
213			Panel DP-HM5A: 800A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface	EA	1
214			Panel DP-HMLL3B1: 1000A, 480Y/277V, 3Ph, 4W, Mains: MLO, 84 Poles, Surf	EA	1
215			Panel DP-HMLL3B2: 1000A, 480Y/277V, 3Ph, 4W, Mains: MLO, 84 Poles, Surf	EA	1
216			Panel DP-HMLL3B: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surfac	EA	1
217			Panel DP-HOSLL3: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surfac	EA	1
218			Panel DP-PV: 225A, 480Y/277V, 3Ph, 4W, Mains: MLO, 24 Poles, Surface Mou	EA	1
219			Panel EDP-1: 600A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mount	EA	1
220			Panel EH-1: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mount	EA	1
221			Panel EP-4: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Flush Mounted	EA	1
222			Panel ER-1: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mount	EA	1
223			Panel ESB-EPMDP: 1600A, 480Y/277V, 3Ph, 4W, Mains: MCB, 42 Poles, 65KA	EA	1
224			Panel HC5B: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
225			Panel HEV5: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mount	EA	1
226			Panel HL2A: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
227			Panel HL2B: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
228			Panel HL3A: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
229			Panel HL3B: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
230			Panel HL4A: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
231			Panel HL4B: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
232			Panel HL5A: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
233			Panel HL5B: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
234			Panel HLLL3A: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mo	EA	1
235			Panel HLLL3AX: 100A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface M	EA	1
236			Panel HLRA: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
237			Panel HLRB: 400A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1

DETAILED BREAKDOWN OF ITEMS

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ELECTRICAL ESTIMATION
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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
238			Panel HLRLL1: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mo	EA	1
239			Panel HLRLL3B1: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface M	EA	1
240			Panel HLS2B: 200A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1
241			Panel HLS3A: 200A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1
242			Panel HLS4B: 200A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1
243			Panel HLSRA: 200A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
244			Panel HM2A: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
245			Panel HM2B: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
246			Panel HM3A: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
247			Panel HM3B: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
248			Panel HM4A1: 250A, 480Y/277V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
249			Panel HM4B1: 400A, 480Y/277V, 3Ph, 4W, Mains: MCB, 60 Poles, Surface Mou	EA	1
250			Panel HM4B2: 250A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
251			Panel HM4A: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 84 Poles, Surface Moun	EA	1
252			Panel HM5A1: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 84 Poles, Surface Mo	EA	1
253			Panel HM5B: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
254			Panel HMLL1: 600A, 480Y/277V, 3Ph, 4W, Mains: MLO, 60 Poles, Surface Mou	EA	1
255			Panel HMLL3A1: 800A, 480Y/277V, 3Ph, 4W, Mains: MLO, 84 Poles, Surface	EA	1
256			Panel HMRA: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
257			Panel HMRB: 150A, 480Y/277V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
258			Panel HOS5B: 100A, 488Y/277V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
259			Panel HOSLL1: 400A, 480Y/277V, 3Ph, 4W, Mains: MLO, 60 Poles, Surface Mo	EA	1
260			Panel LAV2B: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
261			Panel LAV2A: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
262			Panel LAV3A: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
263			Panel LAV3B: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
264			Panel LAV4A: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
265			Panel LAV4B: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
266			Panel LAV5A: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
267			Panel LAV5B: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
268			Panel LAVRA: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
269			Panel LAVRD: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mo	EA	1
270			Panel LC5B: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1
271			Panel LCRA: 250A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Moun	EA	1
272			Panel LEV5: 150A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mount	EA	1
273			Panel LLR5B: 150A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mour	EA	1
274			Panel LLRLL1: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mo	EA	1
275			Panel LLRLL3: 150A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
276			Panel LLS2B: 125A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
277			Panel LLS3A: 125A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mour	EA	1
278			Panel LLS4B: 125A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Moun	EA	1
279			Panel LLSLL3: 125A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
280			Panel LLSR: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mount	EA	1
281			Panel LLSRA: 125A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
282			Panel LM5A: 250A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Moun	EA	1
283			Panel LMLL1: 250A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
284			Panel LMLL3A: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1
285			Panel LMLL3B: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1
286			Panel LOS2A: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
287			Panel LOS3B: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
288			Panel LOS4A: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
289			Panel LOS4B: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
290			Panel LOSLL1: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mo	EA	1
291			Panel LOSLL3: 100A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mo	EA	1
292			Panel LOSRB: 225A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
293			Panel LR2A-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1
294			Panel LR2B-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1
295			Panel LR2B: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1
296			Panel LR2A: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 126 Poles, Surface Mou	EA	1
297			Panel LR3A-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1
298			Panel LR3B-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1
299			Panel LR3A: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1
300			Panel LR3B: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1
301			Panel LR4A-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1
302			Panel LR4B-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1
303			Panel LR4A: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1
304			Panel LR4B: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1
305			Panel LR5A: 400A, 208Y/120V, 3Ph, 4W, Mains: MCB, 126 Poles, Surface Mou	EA	1
306			Panel LR5B: 400A, 208Y/120V, 3Ph, 4W, Mains: MCB, 126 Poles, Surface Mou	EA	1
307			Panel LRLL1: 100A, 208Y/120V, 3Ph, 4W, Mains: MLO, 42 Poles, Surface Mou	EA	1
308			Panel LRLL3A: 400A, 208Y/120V, 3Ph, 4W, Mains: MCB, 126 Poles, Surface M	EA	1
309			Panel LRRA-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1
310			Panel LRRA: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1
311			Panel LRRB-TR: 200A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface M	EA	1
312			Panel LRRB: 400A, 208Y/120V, 3Ph, 4W, Mains: MCB, 84 Poles, Surface Moun	EA	1
313			Panel MDP-1: 400A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1

DETAILED BREAKDOWN OF ITEMS

Prepared for: Virginia Museum Of Fine Arts, 200N Arthur Ashe Blvd Richmond, VA 23220
Project ID: 11062026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
314	E210-A, E210-B, E210-C, E212-A, E212-B, E212-D, E213A, E213B, E214-A, E214-B, E214-C, E214-DE215-A, E215-B, E216-A, E217-A, E217-B, E501, E502, E600, E601, E810-3, E810-5-L1, E810-L2, E810-P, E810R, EE210-L1A, EE210-L1B, EEE501, E210-L1C, E210-L2C, EEE701, EE702, EE710, E701, E702, E703, E711, E712, E721, E722, E731, E732, E741, E742, E751, E752, E753, E754, E771, EE211-B, EE214A, EE600, E102, E210-L3QA & E210-L3B		Panel MDP-2: 1000A, 208Y/120V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
315			Panel MDP-3: 400A, 480Y/277V, 3Ph, 4W, Mains: MCB, 42 Poles, Surface Mou	EA	1
			DEVICES		
316			1000 KW, 480/277V, Mains: MCB, Renovation Generator Natural Gas Docking S	EA	1
317			1000A Meter	EA	2
318			100A Meter	EA	1
319			100A, 208/120V, Mains: MLO, Generator Load Center	EA	1
320			1200A Meter	EA	1
321			150A Meter	EA	6
322			200A Meter	EA	7
323			225A Meter	EA	7
324			250A Meter	EA	6
325			400A Meter	EA	18
326			480/277V Triple Breaker Docking Station, TRYSTAR TBDS	EA	1
327			800A Meter	EA	5
328			ATS-HLRLL1: 4P/400A Auto Matic Transformer Switch	EA	1
329			Dominion Metering CT Cabinet With Meter	EA	1
330			Dominion Utility Meter	EA	2
331			T-2: 300KVA, 480-208/120V Transformer	EA	1
332			T4: 112.5KVA, 480-208/120V, Transformer	EA	1
333			T-ER-1: 30KVA, 480-208/120V Transformer	EA	1
334			T-GEN-3A: 30KVA Transformer, Ceiling Mounted	EA	1
335			T-LC5B: 75KVA Transformer, Ceiling Mounted	EA	1
336			T-LCRA: 75KVA Transformer, Ceiling Mounted	EA	1
337			T-LEV5: 45KVA Transformer	EA	1
338			T-LEV5:0 45KVA Transformer, Ceiling Mounted	EA	1
339			T-LL5RB: 45KVA Transformer	EA	1
340			T-LLR5B: 45 KVA Transformer	EA	1
341			T-LLRLL1: 30 KVA, 480-208/120V, Transformer	EA	1
342			T-LLRLL3: 45KVA Transformer	EA	1
343			T-LLSLL3: 75KVA Transformer	EA	1
344			T-LLSR: 30KVA, 480-208/120V, Transformer	EA	1
345			T-LM5A: 75KVA Transformer, Ceiling Mounted	EA	1
346			T-LMLL1: 75 KVA, 480-208/120V, Transformer	EA	1
347			T-LMLL3A: 30KVA Transformer	EA	1
348			T-LMLL3B: 30KVA Transformer	EA	1
349			T-LOS2A: 75KVA Transformer	EA	1
350			T-LOS3B: 75KVA Transformer, Ceiling Mounted	EA	1
351			T-LOS4A: 75KVA Transformer, Ceiling Mounted	EA	1
352			T-LOS4B: 75 KVA Transformer, Ceiling Mounted	EA	1
353			T-LOSLL3: 30KVA Transformer, Ceiling Mounted	EA	1
354			T-LOSRB: 75KVA Transformer, Ceiling Mounted	EA	1
355			T-LR2A: 112.5KVA Transformer	EA	1
356			T-LR2B: 112.5KVA Transformer	EA	1
357			T-LR3A: 112.5KVA Transformer	EA	1
358			T-LR3B: 112.5KVA Transformer	EA	1
359			T-LR4A: 112.5KVA Transformer	EA	1
360			T-LR4B: 112.5KVA, Transformer	EA	1
361			T-LR5A: 112.5KVA Transformer	EA	1
362			T-LR5B: 112.5KVA Transformer	EA	1
363			T-LRLL3A: 112.5KVA Transformer	EA	1
364			T-LRRA: 112.5KVA Transformer	EA	1
365			T-LRRB: 112.5KVA Transformer	EA	1
366			T-Panel-A: 75KVA, 480-208/120V Transformer	EA	1
367			T-SE-1: 112.5KVA, 480-208/120V, Transformer, Ceiling Mounted	EA	1
368			T-URA: 3750kVA, 34.5kV-480/277V Transformer, DOMINION, Pad Mounted	EA	1
369			T-URB: 3750kVA, 34.5kV-480/277V Transformer, DOMINION, Pad Mounted	EA	1
370			3000A, Bus Duct With 100% Neutral And 50% Internal Ground Bus, 100 KAIC	LF	487
			DISCONNECT SWITCH		
371		**Rating Assumed**	1P/20A Non-Fused Disconnect Switch, NEMA 1	EA	14
372			1P/30A Fused Disconnect Switch, NEMA 1	EA	4
373			1P/30A Non Fusible Disconnect Switch, NEMA-1	EA	18
374			1P/30A Non-Fused Disconnect Switch, NEMA 3R	EA	2
375			1P/60A Non Fusible Disconnect switch, NEMA-3R	EA	4
376			2P/30A Disconnect Switch, NEMA 3R	EA	1
377			2P/30A Non Fusible Disconnect Switch, NEMA-1	EA	4
378			2P/30A Non-Fused Disconnect Switch, NEMA 3R	EA	1
379			2P/60A Non-Fused Disconnect Switch, NEMA 1	EA	1

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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
380			2P/60A Non-Fused Disconnect Switch, NEMA 3R	EA	2
381			2P/60A Fused Disconnect Switch, NEMA 3R	EA	2
382			3P/20A Fusible Disconnect Switch, NEMA-1	EA	3
383			3P/20A Fused Disconnect Switch, NEMA 3R	EA	2
384			3P/30A Disconnect Switch, NEMA 4X	EA	3
385			3P/30A Fused Disconnect Switch, NEMA 1	EA	15
386			3P/30A Fused Disconnect Switch, NEMA 3R	EA	3
387			3P/30A Non-Fusible Disconnect Switch, NEMA-1	EA	6
388			3P/60A Fused Disconnect Switch, NEMA 1	EA	22
389			3P/60A Fused Disconnect Switch, NEMA 3R	EA	3
390			3P/60A Non-Fusible Disconnect Switch, NEMA-1	EA	1
391			3P/100A Fused Disconnect Switch, NEMA 1	EA	9
392			3P/100A Non-Fusible, Lockable Disconnect Switch With Auxiliary Contacts	EA	4
393			3P/125A Disconnect Switch	EA	1
394			3P/125A/200AF Fused Disconnect Switch	EA	1
395			3P/150A Disconnect Switch	EA	5
396			3P/200A NF Disconnect Switch	EA	10
397			3P/200A Fused Disconnect Switch, NEMA 1	EA	1
398			3P/250A Disconnect Switch	EA	1
399			3P/400A Disconnect Switch	EA	11
400			3P/800A Disconnect Switch	EA	2
			GROUNDING		
401			#3/0 Bare Cu Concrete-Encased Electrode	EA	2
402			Ground Bus Bar	EA	13
403			3/4" X 10' Cu Grounding Rod	EA	29
404			Main Electrical Ground Bus Bar	EA	2
405			Pre Cast Lid With Traffic Rated Lid	EA	6
406			CHRISTY #N9 Rectangular Box	EA	6
407			3/4" Ground Connector	EA	6
408			#6 CU Grounding Conductor	LF	30
409			#2 CU Grounding Conductor	LF	240
410			#1/0 CU Grounding Conductor	LF	30
411			#2/0 CU Grounding Conductor	LF	40
412			#3/0 Cu Grounding Conductor	LF	600
413			#4/0 Bare Stranded Cu Conductor	LF	898
414			1" PVC SCH 40 Conduit	LF	600
			PHOTOVOLTAIC		
			CONDUIT		
415			3/4" RGS Conduit	EA	118
416			2" RGS Conduit	EA	44
			CONDUCTOR		
417			#10 CU THHN/THWN	EA	18
418			#6 CU THHN/THWN	EA	2
419			#1/0 CU THHN/THWN	EA	9
			DEVICE		
420			Solar DC Disconnect Switch, NEMA 3R	EA	3
421			3P/225A Lockable Disconnect Switch, NEMA 1	EA	2
422			25KW, PV Inverter	EA	1
423			60KW, PV Inverter	EA	2
424			590W PV Module	EA	169
425		**By Owner**	PV Meter	EA	1
			POWER		
			CONDUIT		
426			3/4" EMT Conduit	EA	4310
427			3/4" PVC SCH 40 Conduit	EA	226
428			3/4" RGS Conduit	EA	6
			CONDUCTOR		
429			#12 CU THHN/THWN	EA	533
430			#10 CU THHN/THWN	EA	185
			DEVICE		
431			$MS: Motorized Shade Switch	EA	7
432			$MW: Motorized Wall Switch	EA	1
433			$PL: Project Lift Switch	EA	7
434			$PS: Project Screen Switch	EA	7
435			15A Equipment Connection	EA	8
436			20A Equipment Connection	EA	18
437			20A Equipment Connection NEMA 3R	EA	2
438			20A Motor Connection	EA	14

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
439			30A Equipment Connection	EA	1
440			60A Equipment Connection	EA	2
441			100A Equipment Connection	EA	1
442			1000A Equipment Connection	EA	3
443			15A VFD Connection	EA	4
444			15A VFD Connection, NEMA 3R	EA	6
445			20A VFD Connection	EA	3
446			20A VFD Connection, NEMA 3R	EA	1
447			25A VFD Connection	EA	3
448			25A VFD Connection NEMA 3R	EA	1
449			40A VFD Connection	EA	17
450			40A VFD Connection, NEMA 3R	EA	2
451			50A VFD Connection	EA	7
452			50 VFD Connection NEMA 3R	EA	8
453			60A VFD Connection	EA	3
454			80A VFD Connection	EA	29
455			80A VFD Connection NEMA 3R	EA	5
456			100A VFD Connection	EA	6
457			175A VFD Connection NEMA 3R	EA	3
458			225A VFD Connection	EA	3
459			400A VFD Connection	EA	6
460			Combination TV Outlet & Duplex Receptacle On Single Faceplate	EA	5
461			Combination USB Duplex Receptacle Above Counter With (2) 5VDC, 2.1A USB	EA	5
462			Combination USB Duplex Receptacle With (2) 5VDC USB Charging Ports (1)	EA	16
463			Company Switch	EA	1
464			Data Port For Electric Meter Integration	EA	64
465			Duplex Receptacle Above Counter With Decorator-Style Device And Faceplate	EA	18
466			Duplex Receptacle Ceiling-Mounted With Decorator-Style Device And Faceplate	EA	12
467			Duplex Receptacle Horizontally-Mounted With Decorator-Style Device And Facep	EA	220
468			Duplex Receptacle With Decorator-Style Device And Faceplate	EA	272
469			Duplex Receptacle, DECORATOR STYLE Device & Faceplate, Floor Mounted	EA	6
470			GFCI Duplex Receptacle With Decorator-Style Device And Faceplate	EA	133
471			GFCI Duplex Receptacle Above Counter With Decorator-Style Device And Facep	EA	45
472			GFCI Duplex Receptacle Under Counter With Decorator-Style Device And Facepl	EA	2
473			GFCI Duplex Receptacle With Decorator-Style Device And Faceplate, NEMA 5-1	EA	37
474			GFCI Duplex Receptacle With Decorator-Style Device And Faceplate, NEMA 5-2	EA	2
475			GFCI Duplex Receptacle With Decorator-Style Device And Faceplate, NEMA L1	EA	1
476			GFCI Duplex Receptacle With Decorator-Style Device And Faceplate, NEMA L1	EA	1
477			GFCI Half Controlled Duplex Receptacle Above Counter	EA	1
478			GFCI Duplex Receptacle Weather Resistant With Decorator-Style Device An	EA	86
479			Fully Controlled Duplex Receptacle	EA	10
480			Fully Controlled Duplex Receptacle, Above Standard	EA	2
481			Half Controlled Duplex Receptacle	EA	58
482			Half Controlled Quadruplex Receptacle	EA	48
483			Half Controlled Duplex Receptacle Above Counter	EA	3
484			Half Controlled Quadruplex Receptacle, Above Standard	EA	1
485			Emergency Power Off Button (For Generator)	EA	1
486			Quadruplex Receptacle Ceiling-Mounted With Decorator-Style Device And Facep	EA	61
487			Quadruplex Receptacle With Decorator-Style Device And Faceplate	EA	43
488			Restroom Outlet	EA	44
489			30A, Special Purpose Receptacle, NEMA L6-30R	EA	9
490			50A, Special Purpose Receptacle, NEMA 6-50P	EA	1
491			Special Purpose Receptacle	EA	3
492			Special Purpose Receptacle Ceiling Mounted	EA	1
493			Special Purpose Receptacle, NEMA 5-15P	EA	1
494			Special Purpose Receptacle, NEMA 1-15R	EA	1
495			Special Purpose Receptacle, NEMA 1-15S	EA	1
496			Special Purpose Receptacle, NEMA 6-15R	EA	6
497			Special Purpose Receptacle, NEMA L6-30R	EA	2
498			Single Pole Switch	EA	1
499			EV Charging Spot	EA	3
500			120V Hardwired, Electric Cord Reel With (2) Duplex Receptacle & GFCI	EA	10
501			120V Wall Receptacle	EA	1
502			Above Ceiling Top-Down Motorized Shade Connection	EA	109
503			ADA Door Actuator Connection	EA	2
504			BAS Control Panel	EA	3
505			FB1: 4"L x 4"W Floor Box, ARLINGTON FLB3520, HUBBELL B2588/S3025,	EA	181
506			FB2: 4" Round Cover, 3.14" Depth, LEW ELECTRIC MW-332-DA-A, HUBBEL	EA	48
507			FB8: 16.375"L x 12.5"W Floor Box, FSR RFL3-Q1G	EA	11
508			FBO2: 14"L x 7.375"W Floor Box, LEGRAND XB814C520BK With (2) Non Co	EA	11
509			PT: 8.25"D Poke Thru, LEGRAND 6ATCFF##	EA	5
510			PT2: 5.5"D Poke Thru, LEGRAND 4ATCP4R## With (2) Non Controlled Duplex	EA	16
511			PT4: 7.25"D Poke Thru, LEGRAND 6ATCP## With (2) Non Controlled Duplex F	EA	4
512			PT8: 11.25"D Poke Thru, LEGRAND 10ATCP## With (4) Non Controlled Duple	EA	6
			LIGHTING		

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			CONDUIT		
513			3/4" EMT Conduit	EA	4972
			CONDUCTOR		
514			#12 CU THHN/THWN	EA	216
515			#10 CU THHN/THWN	EA	326
516			#8 CU THHN/THWN	EA	203
			LIGHTING FIXTURES		
517			A1: Recessed LED Downlight, Nominal 4" Aperture With Bevel Trim, 50 Degree	EA	9
518			A1, EM: Recessed LED Downlight, Nominal 4" Aperture With Bevel Trim, 50 De	EA	7
519			BG: Battery Backup Bug Eye Fixture, ACUITY BRANDS LIGHTING EU2CMou	EA	20
520			K1A: Recessed 70° Downlight - High Output, Recessed 4.5" Diameter Deep Regre	EA	148
521			K1A, EM: Recessed 70° Downlight - High Output, Recessed 4.5" Diameter Deep I	EA	328
522			K1B: Recessed 25° Downlight, Recessed 4.5" Diameter Deep Regress Round Ape	EA	20
523			K1B, EM: Recessed 25° Downlight, Recessed 4.5" Diameter Deep Regress Round	EA	11
524			K1C: Recessed 70° Downlight - Millwork Trim, Recessed 4.5" Diameter Deep Re	EA	8
525			K1C, EM: Recessed 70° Downlight - Millwork Trim, Recessed 4.5" Diameter Dee	EA	4
526			K1D: Recessed 70° Downlight - Low Output, Recessed 4.5" Diameter Deep Regre	EA	38
527			K1D, EM: Recessed 70° Downlight - Low Output, Recessed 4.5" Diameter Deep F	EA	38
528			K1F: Recessed 70° Downlight - Very High Output, Recessed 4.5" Diameter Deep	EA	25
529			K1F, EM: Recessed 70° Downlight - Very High Output, Recessed 4.5" Diameter D	EA	18
530			K2: Recessed Wall Washer, Recessed 4.5" Diameter Round Aperture Trimless Wa	EA	21
531			K2, EM: Recessed Wall Washer, Recessed 4.5" Diameter Round Aperture Trimles	EA	10
532			K3 (EA 8): Recessed Linear Perimeter Light - High Output, Recessed 5" Wide Dee	LF	142
533			K3A (EA 18): Recessed Linear Perimeter Light - Low Output, Recessed 5" Wide I	LF	472
534			K4 (EA 4): Living Room Niche Luminous White Panel Custom Shape Backlit Cei	LF	119
535			K5: Atrium 101 Downlight Recessed 4.5" Diameter Deep Regress Round Aperture	EA	17
536			K5, EM: Atrium 101 Downlight Recessed 4.5" Diameter Deep Regress Round Ape	EA	17
537			K6 (EA 9): Slot Track, INTERLUX / LINEA CREEKMounting: RecessedWatts: N	LF	224
538			K6A: Adjustable Track Light Track Mounted 3.5" Diameter Round Adjustable Ac	EA	63
539			K7: Grand Stair Wall Mounted Area Light, BEGA B24502Mounting: SurfaceWatt	EA	20
540			K8 (EA 18): Elevator Lantern Light, INTERLUX / LINEA WG-20LDL-SM-MM-	LF	64
541			K9 (EA 2): Beacon Wall Linear Wash, LUMENPULSE LOGN-7W-48V-24-30K-	LF	44
542			K11: Event Space Track Singlet, ERCO NOT SPECIFIEDMounting: Not Specifie	EA	14
543			K12 (EA 11): Bendable Cove in Event Space Surface Mounted 0.75" Wide Field C	LF	939
544			K13: Low Glare Downlight in Event Space Recessed 1.75" Wide Low Glare Rece	EA	59
545			K13, EM: Low Glare Downlight in Event Space Recessed 1.75" Wide Low Glare I	EA	57
546			K14 (EA 1): Flexible Linear Under Bar Surface Mounted 6" Wide Field Curvable	LF	37
547			K16 (EA 9): Level 5 Bar Pendant Cable Mounted 3.5" Wide Decorative Pendant w	LF	30
548			K17 (EA 13): Living Room Seating Linear, QTL TILT-01-SW-1.0-30-DRY-FR-[V	LF	300
549			K18A (EA 16): Direct/Indirect Linear Pendant, High Power Cable Mounted 3.5" W	LF	148
550			K18A, EM (EA 10): Direct/Indirect Linear Pendant, High Power Cable Mounted 3	LF	101
551			K18B (EA 13): Direct/Indirect Linear Pendant, Mid Power Cable Mounted 3.5" W	LF	102
552			K18C (EA 15): Direct/Indirect Linear Pendant, Tunable White Cable Mounted 3.5	LF	143
553			K18C, EM (EA 9): Direct/Indirect Linear Pendant, Tunable White Cable Mounted	LF	111
554			K18D (EA 13): Cable Mounted 3.5" Wide Direct/Indirect Linear Pendant, FLUXW	LF	103
555			K19 (EA 9): 4" Recessed Linear LED Light with Notched Optical System, FLUXV	LF	72
556			K19, EM (EA 1): 4" Recessed Linear LED Light with Notched Optical System, FL	LF	8
557			K20: 2X2 Recessed Architectural Troffer with Center Diffuser, FOCAL POINT FI	EA	90
558			K20, EM: 2X2 Recessed Architectural Troffer with Center Diffuser, FOCAL POIN	EA	52
559			K20A: 2X4 Recessed Architectural Troffer with Center Diffuser, FOCAL POINT	EA	7
560			K20A, EM: 2X4 Recessed Architectural Troffer with Center Diffuser, FOCAL PO	EA	3
561			K20B: 2X4 Recessed Architectural Troffer with Center Diffuser, FOCAL POINT	EA	2
562			K21: Surface Mounted 5.75" Wide Square Cylinder Light Fixture with Accent Lig	EA	25
563			K21, EM: Surface Mounted 5.75" Wide Square Cylinder Light Fixture with Accen	EA	10
564			K22: Recessed Flangeless White Track, ERCO 78342.023 + 85558.023Mounting:	EA	352
565			K22 (EA 352): Recessed Flangeless White Track, ERCO 78342.023 + 85558.023M	LF	7223
566			K22, EM (EA 2): Recessed Flangeless White Track, ERCO 78342.023 + 85558.02	LF	12
567			K26: Fiber Optic System with Surface Mounted 2" Round Fixtures Mounted to Ca	EA	309
568			K27 (EA 51): Restroom Recessed Linear Perimeter Light, FINELITE HP-2 WS-4I	LF	491
569			K27, EM (EA 1): Restroom Recessed Linear Perimeter Light, FINELITE HP-2 WS	LF	6
570			K30 (EA 22): 3" Direct / Indirect Linear Pendant, FINELITE HP-3-P-ID-[LENGT	LF	457
571			K31: LED Striplight - Surface, Surface Mounted 3" Wide LED Striplight with Dro	EA	42
572			K31, EM: LED Striplight - Surface, Surface Mounted 3" Wide LED Striplight with	EA	19
573			K31A: LED Striplight - Pendant, 3" Wide LED Striplight with Drop Lens in Paint	EA	40
574			K31A, EM: LED Striplight - Pendant, 3" Wide LED Striplight with Drop Lens in I	EA	26
575			K31B: LED Striplight - High Output, Surface Mounted 3" Wide LED Striplight wi	EA	25
576			K36: LED Striplight, Surface Mounted 4' Wide Industrial Strip Light with Frosted	EA	14
577			K36, EM: LED Striplight, Surface Mounted 4' Wide Industrial Strip Light with Fro	EA	28
578			K37: Wall Sconce, Wall Mounted 12" Wide Wedge-Shaped Sconce, LITHONIA V	EA	2
579			K38 (EA 5): Cove Light, Surface Mounted 1" Wide Linear Cove Strip, VODE 707	LF	142
580			K39: Restroom Downlight, Recessed 4.5" Diameter Round Aperture Trimless Dow	EA	25
581			K39, EM: Restroom Downlight, Recessed 4.5" Diameter Round Aperture Trimless	EA	34
582			K40, EM: Gallery Portal Downlight, Recessed 2" Diameter Round Aperture Trimle	EA	10
583			K40A, EM: Gallery Portal Downlight, Recessed 2" Diameter Round Aperture Mill	EA	18

DETAILED BREAKDOWN OF ITEMS

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ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
584			K41: Recessed Adjustable, Recessed 4.5" Diameter Round Aperture Trim Adjustal	EA	2
585			K42 (EA 11): Undercabinet Task Light, Surface Mounted 1" Wide Linear Underca	LF	221
586			K43 (EA 7): Cove Light at Elevator Bank, QTL TH1SW-USA-6.0HE-30-DRY-ST	LF	244
587			K44 (EA 11): Surface Mounted Linear, Lower Level Linear 3" Slotlight, VODE 8(	LF	43
588			K44, EM (EA 4): Surface Mounted Linear, Lower Level Linear 3" Slotlight, VOD	LF	20
589			K45, EM (EA 4): Meeting Room Level 5 Pendant, LIGHTNET 807-NX3-SL-[LE	LF	99
590			K46 (EA 4): Glowing Jewelbox Cove, BEULUX RG-D10-30-CS-BR-DUR-[LEN	LF	51
591			KD2: Decorative Spoke Pendant, Cone, Cable Mounted 14" Round Decorative Per	EA	3
592			KD3: Decorative Pendant, Recycled Fluted Bell Pendant Lamp, MUUTO UTBPE	EA	5
593			KX2 (EA 6): Seating and Wall Linear Toe Kick Light, Exterior Rated Surface Mou	LF	207
594			KX3: Building Façade Uplight, ERCO 34928.023Mounting: SurfaceWatts: 88 W	EA	25
595			KX4: Handrail Light, Small Round Lightpod Integrated into Handrails at Ramps a	EA	29
596			KX4, EM: Handrail Light, Small Round Lightpod Integrated into Handrails at Ran	EA	24
597			KX5 (EA 8): Wall Mounted Linear Egress, Exterior Rated Wall Surface Mounted	LF	28
598			KX6: Recessed Downlight, Exterior Rated Downlight, 4.5" Round Recessed Dow	EA	1
599			KX6, EM: Recessed Downlight, Exterior Rated Downlight, 4.5" Round Recessed	EA	1
600			KX7: Exterior Downlight, Recessed 4.5" Diameter Round Downlight with 32 Deg	EA	45
601			KX7, EM: Exterior Downlight, Recessed 4.5" Diameter Round Downlight with 32	EA	21
602			KX8 (EA 10): Banner Grazing Downlight, LUMENPULSE LFP-CH-[CERTI]-12(	LF	30
603			P1: 4'L X 3"H X 3"W LED Striplight With Drop Lens, White Paint Finish, Adjust	EA	175
604			P1, EM: 4'L X 3"H X 3"W LED Striplight With Drop Lens, White Paint Finish, A	EA	147
605			R2 (EA 1): 3/4"W X 1/2"H LED Rail, Assembly With Flexibility In The Horizont	LF	8
606			W1: 4'L X 6"W X 4"H LED Gasketed Striplight With IP65+ Rating, Acrylic Lens,	EA	14
607			W1, EM: 4'L X 6"W X 4"H LED Gasketed Striplight With IP65+ Rating, Acrylic	EA	35
608			W2, EM: 4'L X 4"H X 4"W LED Striplight With Frosted Lens, White Paint Finish	EA	16
609			XP: 13"L X 4.5"W X 12"H LED Edge-Lit Exit Sign With 5-Year Warranty, White	EA	118
610			XR: 13"L X 1.75"W X 8"H LED Edge-Lit Exit Sign With 5-Year Warranty, White	EA	6
611			XW: 16"L X 4.5"W X 8.5"H LED Edge-Lit Exit Sign With 5-Year Warranty, Brus	EA	110
612		**Schedule Not Given**	Track Head	EA	7
613			XS: Exit Sign Light	EA	1
614			Provide Temporary Exist Sign Remove End Of Construction	EA	6
			LIGHTING CONTROL		
615		**Legend Assumed**	3-Way Switch	EA	11
616			4-Way Switch	EA	3
617			CS: Occupancy Ceiling Sensor	EA	5
618			DT: Occupancy Ceiling Sensor	EA	42
619			Dual-Technology Low Voltage Occupancy Sensor Wall Switch With Raise/Lo	EA	5
620			Low Voltage On/Off And Dimming Switch With One Control Zone, NLIGHT	EA	18
621			Occupancy Sensor Switch	EA	6
622			Single Pole Switch	EA	29
623			SK3: 3-Way Switch	EA	11
624			SK5: Single Pole Switch	EA	23
625			SP: Single Pole Switch	EA	67
626			STS: Time Switch	EA	4
627			M: Wall Switch	EA	31
628			R: Wall Switch With Occupancy Sensor	EA	50
629			T: Dual Technology Wall Switch Sensor	EA	16
630			O: Dual Technology Wall Switch Sensor With Dimming	EA	28
631			S: Wired Sensor	EA	26
632			AA: Occupancy/Vacancy Sensor	EA	111
			MISCELLANEOUS		
633			Junction Box	EA	336
634			Junction Box Ceiling Mounted	EA	48
635			Junction Box Wall Mounted	EA	137
636			Junction Box Wall Mounted, NEMA 5-15P	EA	1
637			4" Square Flush With Ceiling Mounted Junction Box	EA	34
638			Pull Box	EA	12
639			Transition Box	EA	2
640			Unistrut Rack Anchored To Floor	EA	11
641			On-Grade Pillbox, NEMA 4X	EA	2
			SAW CUT		
642			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	2256
			COMMUNICATION		
			TELECOMMUNICATION		
			CONDUIT		
643			3/4" EMT Conduit Up To Ceiling	EA	31
644			1" EMT Conduit Up To Ceiling	EA	386
645			1-1/4" EMT Conduit Up To Ceiling	EA	39
646			2" EMT Conduit Up To Ceiling	EA	6
	T103, T210-A, T210-B, T210-C, T210-		**DEVICES**		
647			1 Gang Back Box	EA	12

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
648	L1B, T210-L2C, T210-L3A, T210-L3B, T212-A, T212-B, T213-A, T213-B, T214-A, T214-B, T214-D, T-215-A, T215-B, T216-A, T217-A, SC001, SC100, SC210-L3A, SC210-L3B, SC210-L2C, SC210-L1B, SC210-A, SC210-C, SC210-B, SC211-B, SC212-A, SC212-B & SC212-D		2 Gang Back Box	EA	198
649			2 Gang Back Box With Single Gang 1-Port Face Plate	EA	8
650			2 Gang Back Box With Single Gang 2-Port Face Plate	EA	13
651			2 Gang Back Box With Single Gang 4-Port Face Plate	EA	106
652			2-Port Biscuit Box	EA	101
653			Back Box	EA	37
654			Ceiling Mounted Box	EA	243
655			Floor Mounted Box	EA	23
656			Junction Box, Ceiling Mounted With Blank Face Plate	EA	83
657			MPTL: Modular Plug Terminated Link	EA	477
658			PT: Poke Thru	EA	5
659			PT4: Poke Thru	EA	4
660			PT8: Poke Thru, 2-Port Face Plate	EA	8
661			Shared Floor Box With 6-Port Face Plate	EA	11
			SECURITY		
			CONDUIT		
662			3/4" EMT Conduit W/ Pull String	LF	7070
			DEVICES		
663			Back Box	EA	833
			ELECTRONUC SAFETY AND SECURITY		
			FIRE ALARM		
	FAE200-L1C, FAE200-L1D, FAE200-A, FAE210-L3A, FAE210-L2C, FAE210A, FAE210B, FAE310C, FA215B & FA216A		**CONDUIT**		
664			3/4" EMT Conduit	LF	19325
			CONDUCTOR		
665			#16 CU THHN/THWN	LF	22882
666			#14 CU THHN/THWN	LF	15768
			DEVICES		
667			Duct Smoke Detector	EA	166
668			Duct Smoke Detector, Addressable Relay, Remote Test Switch With Indicating Li	EA	2
669			Emergency Call Box	EA	13
670			Emergency Responder Radio Communications Annunciator Panel	EA	1
671			Fire Alarm Addressable Interface Module (Input)	EA	113
672			Fire Alarm Addressable Relay (Input)	EA	18
673			Fire Alarm Addressable Relay (Output)	EA	8
674			Fire Alarm Air Sampling Control Panel	EA	14
675			Fire Alarm Amplifier Panel	EA	7
676			Fire Alarm Pull Station	EA	19
677			Fire Alarm Pull Station, WP	EA	1
678			Fire Alarm Speaker W/Strobe, Ceiling Mounted, 110CD	EA	15
679			Fire Alarm Speaker W/Strobe, Ceiling Mounted, 135CD	EA	2
680			Fire Alarm Speaker W/Strobe, Ceiling Mounted, 15CD	EA	51
681			Fire Alarm Speaker W/Strobe, Ceiling Mounted, 30CD	EA	40
682			Fire Alarm Speaker W/Strobe, Wall Mounted, 110CD	EA	13
683			Fire Alarm Speaker W/Strobe, Wall Mounted, 120CD	EA	1
684			Fire Alarm Speaker W/Strobe, Wall Mounted, 15CD	EA	33
685			Fire Alarm Speaker W/Strobe, Wall Mounted, 30CD	EA	12
686			Fire Alarm Speaker, Wall Mounted	EA	8
687			Fire Alarm Strobe, Ceiling Mounted	EA	15
688			Fire Alarm Terminal Cabinet	EA	1
689			Fire Alarm W/Strobe, Ceiling Mounted, 75CD	EA	113
690			Fire Alarm W/Strobe, Wall Mounted, 75CD	EA	29
691			Heat Detector	EA	5
692			Magnetic Door Hold Open Device	EA	20
693			Monitor Module	EA	1
694			Notification Appliance Power Extender Panel	EA	5
695			Smoke Detector, Air Aspirating Port	EA	181
696			Smoke Detector, Elevator Recall	EA	13
697			Smoke Detector, Wall Mounted	EA	182
698			Addressable Relay	EA	59
699			Fire Alarm Annunciator Panel	EA	1
			UTILITIES		
			DISTRIBUTION		
			CONDUIT		
700			1" SCH 40 PVC Conduit	LF	78
701			1-1/2" SCH 40 PVC Conduit	LF	78
702			2" SCH 40 PVC Conduit	LF	78
			CONDUCTOR		

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
703	E100 & EE100		#8 CU THHN/THWN	LF	78
704			#6 CU THHN/THWN	LF	234
			POWER		
			CONDUIT		
705			3/4" EMT Conduit	LF	730
706			3/4" RGS Conduit	LF	45
			CONDUCTOR		
707			#10 CU THHN/THWN	LF	730
708			#8 CU THHN/THWN	LF	1406
			DEVICE		
709			Duplex Receptacle, GFCI, WR	EA	4
			SITE LIGHTING		
			CONDUIT		
710			1" SCH 40 PVC Conduit	LF	193
			CONDUCTOR		
711			#10 CU THHN/THWN	LF	579
			LIGHTING FIXTURES		
712			Pole Mounted Light, Single Head	EA	2
713			25' Square Steel Pole	EA	2
714			Concrete Base	EA	2
			MISCELLANEOUS		
			TRENCHING & BACKFILLING		
715			Excavation & Backfilling (2' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	542

	PROJECTED COST
OVERHEAD AND PROFIT	
INSURANCE	
CONTINGENCY	
TAX	
SUGGESTED BID	

Notes:

1. Online sources are used for pricing.
2. Prices can vary depending upon field conditions.