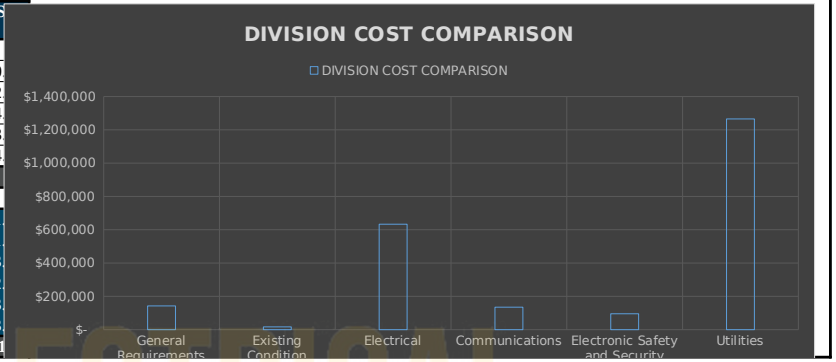
GENERAL SUMMARY

Prepared for: Warehouse-Office Addition Sacramento County Office of ED. 10170 Missile Way, Mather, CA 95655
Project ID: 3182026
Scope: Electrical
No. Of Floors: 2
Date: 28-Sep-26

ELECTRICAL ESTIMATION
+1 708-381-0900

BUILDING GSF	28,695
1st Floor (SF)	22912
2nd Floor (SF)	5783

DIVISION NO	DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COS (PER SF)
1000	General Requirements	$ 142,500	$
2000	Existing Condition	$ 16,629	$ 0.
26000	Electrical	$ 633,078	$ 22.
27000	Communications	$ 134,880	$ 4.
28000	Electronic Safety and Security	$ 95,277	$ 3.
33000	Utilities	$ 1,265,636	$ 44.
TOTAL TRADE COST		$ 2,287,999	$
OVERHEAD	15%	$ 343,200	$ 11.
PROFIT	15%	$ 343,200	$ 11.
SUB-CONTRACTOR MARGIN	10%	$ 110,397	$ 3.
INSURANCE	3%	$ 68,640	$ 2.
CONTINGENCY	5%	$ 114,400	$ 3.
TAX	9%	$ 96,342	$ 3.
SUGGESTED BID		$ 3,364,178	$ 1



DETAILED BREAKDOWN OF ITEMS

Prepared for: Warehouse-Office Addition Sacramento County Office of ED. 10170 Missile Way, Mather, CA 95655
Project ID: 3182026
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
			GENERAL REQUIREMENTS										
1			Permits	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
2			Supervision and Coordination	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 85,000.00	$ 85,000.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
4			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 10,500.00	$ 10,500.00
5			Mobilization Costs	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 35,000.00	$ 35,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 12,000.00	$ 12,000.00
7			Scaffolding	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
												SUBTOTAL	**$ 142,500**
			EXISTING CONDITIONS										
			DEMOLITION										
8			Existing Distribution Panel To Be Removed With Associated Wiring And Conduit	EA	1	0%	1	12.45	$ 110.00	$ 1,369.50	$ -	$ 1,369.50	$ 1,369.50
9			Existing Overhead Power Service/Lines To Be Removed	LF	54	0%	54	0.75	$ 110.00	$ 82.50	$ -	$ 82.50	$ 4,464.08
10	**E1.0**		Existing Disconnect Building And Remove Feeders Back To The Source	EA	3	0%	3	4.28	$ 110.00	$ 470.80	$ -	$ 470.80	$ 1,412.40
11			Existing Pole Light To Be Removed With Associated Wiring And Conduit Back T	EA	13	0%	13	5.45	$ 110.00	$ 599.50	$ -	$ 599.50	$ 7,793.50
12			Existing Power Pole To Be Removed With Associated Wiring And Conduit Back T	EA	1	0%	1	14.45	$ 110.00	$ 1,589.50	$ -	$ 1,589.50	$ 1,589.50
												SUBTOTAL	**$ 16,629**
			ELECTRICAL										
			DISTRIBUTION										
			CONDUIT										
13			1" EMT Conduit	LF	200	10%	220	0.07	$ 110.00	$ 7.70	$ 3.46	$ 11.16	$ 2,456.43
14			1-1/2" EMT Conduit	LF	417	10%	459	0.09	$ 110.00	$ 9.79	$ 7.04	$ 16.83	$ 7,719.92
15			2" EMT Conduit	LF	200	10%	220	0.10	$ 110.00	$ 11.00	$ 8.67	$ 19.67	$ 4,327.40
16			3" EMT Conduit	LF	42	10%	46	0.16	$ 110.00	$ 17.60	$ 14.07	$ 31.67	$ 1,463.15
17			4" EMT Conduit	LF	77	10%	85	0.20	$ 110.00	$ 22.00	$ 19.23	$ 41.23	$ 3,492.18
			CONDUCTOR										
18			#10 CU THHN/THWN	LF	200	10%	220	0.008	$ 110.00	$ 0.88	$ 0.38	$ 1.26	$ 277.34
19			#8 CU THHN/THWN	LF	1017	10%	1119	0.009	$ 110.00	$ 0.99	$ 0.56	$ 1.55	$ 1,733.99
20			#6 CU THHN/THWN	LF	181	10%	199	0.010	$ 110.00	$ 1.10	$ 0.86	$ 1.96	$ 389.46
21			#4 CU THHN/THWN	LF	33	10%	36	0.011	$ 110.00	$ 1.21	$ 1.32	$ 2.53	$ 91.84
22			#3 CU THHN/THWN	LF	23	10%	26	0.012	$ 110.00	$ 1.32	$ 1.66	$ 2.98	$ 76.15
23			#2 CU THHN/THWN	LF	28	10%	31	0.013	$ 110.00	$ 1.43	$ 2.07	$ 3.50	$ 107.80
24			#1 CU THHN/THWN	LF	1652	10%	1817	0.014	$ 110.00	$ 1.54	$ 2.26	$ 3.80	$ 6,905.36
25			#1/0 CU THHN/THWN	LF	53	10%	58	0.015	$ 110.00	$ 1.65	$ 2.77	$ 4.42	$ 257.69
26			#2/0 CU THHN/THWN	LF	723	10%	795	0.016	$ 110.00	$ 1.76	$ 3.40	$ 5.16	$ 4,101.25
27			#4/0 CU THHN/THWN	LF	77	10%	85	0.018	$ 110.00	$ 1.98	$ 5.37	$ 7.35	$ 623.19

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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
28			#250 MCM CU THHN/THWN	LF	112	10%	123	0.025	$ 110.00	$ 2.75	$ 6.22	$ 8.97	$ 1,105.10
29			#350 MCM CU THHN/THWN	LF	53	10%	59	0.030	$ 110.00	$ 3.30	$ 8.75	$ 12.05	$ 708.35
30			#500 MCM CU THHN/THWN	LF	93	10%	102	0.035	$ 110.00	$ 3.85	$ 12.57	$ 16.42	$ 1,678.32
31			#600 MCM CU THHN/THWN	LF	212	10%	233	0.040	$ 110.00	$ 4.40	$ 15.65	$ 20.05	$ 4,675.66
			LUGS										
32			Compression Lug CU With 1-Hole , #8 CU Wire	EA	16	0%	16	0.40	$ 110.00	$ 44.00	$ 2.64	$ 46.64	$ 746.24
33			Heat Shrink Tubing for #8 CU Wire	EA	16	0%	16	0.22	$ 110.00	$ 24.20	$ 0.19	$ 24.39	$ 390.30
34			Compression Lug CU With 1-Hole , #6 CU Wire	EA	2	0%	2	0.40	$ 110.00	$ 44.00	$ 2.94	$ 46.94	$ 93.88
35			Heat Shrink Tubing for #6 CU Wire	EA	2	0%	2	0.22	$ 110.00	$ 24.20	$ 0.21	$ 24.41	$ 48.82
36			Compression Lug CU With 1-Hole , #4 CU Wire	EA	8	0%	8	0.40	$ 110.00	$ 44.00	$ 2.98	$ 46.98	$ 375.84
37			Heat Shrink Tubing for #4 CU Wire	EA	8	0%	8	0.22	$ 110.00	$ 24.20	$ 0.23	$ 24.43	$ 195.44
38			Compression Lug CU With 1-Hole , #3 CU Wire	EA	2	0%	2	0.42	$ 110.00	$ 46.20	$ 3.10	$ 49.30	$ 98.60
39			Heat Shrink Tubing for #3 CU Wire	EA	2	0%	2	0.22	$ 110.00	$ 24.20	$ 0.25	$ 24.45	$ 48.90
40			Compression Lug CU With 1-Hole , #2 CU Wire	EA	4	0%	4	0.42	$ 110.00	$ 46.20	$ 3.50	$ 49.70	$ 198.80
41			Heat Shrink Tubing for #2 CU Wire	EA	4	0%	4	0.22	$ 110.00	$ 24.20	$ 0.25	$ 24.45	$ 97.80
42			Compression Lug CU With 1-Hole , #1 CU Wire	EA	38	0%	38	0.43	$ 110.00	$ 47.30	$ 4.59	$ 51.89	$ 1,971.82
43			Heat Shrink Tubing for #1 CU Wire	EA	38	0%	38	0.23	$ 110.00	$ 25.30	$ 0.28	$ 25.58	$ 972.04
44			Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	4	0%	4	0.43	$ 110.00	$ 47.30	$ 4.86	$ 52.16	$ 208.64
45			Heat Shrink Tubing for #1/0 CU Wire	EA	4	0%	4	0.23	$ 110.00	$ 25.30	$ 0.28	$ 25.58	$ 102.32
46			Compression Lug CU With 1-Hole , #2/0 CU Wire	EA	8	0%	8	0.45	$ 110.00	$ 49.50	$ 10.63	$ 60.13	$ 481.04
47			Heat Shrink Tubing for #2/0 CU Wire	EA	8	0%	8	0.24	$ 110.00	$ 26.40	$ 0.30	$ 26.70	$ 213.60
48			Compression Lug CU With 1-Hole , #4/0 CU Wire	EA	8	0%	8	0.45	$ 110.00	$ 49.50	$ 11.56	$ 61.06	$ 488.48
49			Heat Shrink Tubing for #4/0 CU Wire	EA	8	0%	8	0.25	$ 110.00	$ 27.50	$ 0.34	$ 27.84	$ 222.72
50			Compression Lug CU With 1-Hole , #250 MCM CU Wire	EA	16	0%	16	0.42	$ 110.00	$ 46.20	$ 8.59	$ 54.79	$ 876.64
51			Heat Shrink Tubing for #250 MCM CU Wire	EA	16	0%	16	0.23	$ 110.00	$ 25.30	$ 0.28	$ 25.58	$ 409.28
52			Compression Lug CU With 1-Hole , #350 MCM CU Wire	EA	24	0%	24	0.46	$ 110.00	$ 50.60	$ 12.19	$ 62.79	$ 1,506.96
53			Heat Shrink Tubing for #350 MCM CU Wire	EA	24	0%	24	0.25	$ 110.00	$ 27.50	$ 0.34	$ 27.84	$ 668.16
54			Compression Lug CU With 1-Hole , #500 MCM CU Wire	EA	8	0%	8	0.46	$ 110.00	$ 50.60	$ 12.19	$ 62.79	$ 502.32
55			Heat Shrink Tubing for #500 MCM CU Wire	EA	8	0%	8	0.25	$ 110.00	$ 27.50	$ 0.34	$ 27.84	$ 222.72
56			Compression Lug CU With 1-Hole , #600 MCM CU Wire	EA	16	0%	16	0.48	$ 110.00	$ 52.80	$ 14.87	$ 67.67	$ 1,082.72
57			Heat Shrink Tubing for #600 MCM CU Wire	EA	16	0%	16	0.25	$ 110.00	$ 27.50	$ 0.36	$ 27.86	$ 445.76
			CIRCUIT BREAKER										
58			1P/15A Breaker	EA	3	0%	3	0.42	$ 110.00	$ 46.20	$ 28.00	$ 74.20	$ 222.60
59			1P/20A Breaker	EA	147	0%	147	0.42	$ 110.00	$ 46.20	$ 33.00	$ 79.20	$ 11,642.40
60			1P/20A Breaker, GFCI	EA	9	0%	9	0.42	$ 110.00	$ 46.20	$ 40.25	$ 86.45	$ 778.05
61			1P/30A Breaker	EA	2	0%	2	0.44	$ 110.00	$ 48.40	$ 41.56	$ 89.96	$ 179.92
62			2P/15A Breaker	EA	6	0%	6	0.45	$ 110.00	$ 49.50	$ 37.00	$ 86.50	$ 519.00
63			2P/20A Breaker	EA	11	0%	11	0.45	$ 110.00	$ 49.50	$ 43.18	$ 92.68	$ 1,019.48
64			2P/30A Breaker	EA	1	0%	1	0.48	$ 110.00	$ 52.80	$ 59.00	$ 111.80	$ 111.80
65			2P/40A Breaker	EA	15	0%	15	0.50	$ 110.00	$ 55.00	$ 67.91	$ 122.91	$ 1,843.65
66			2P/50A Breaker	EA	2	0%	2	0.52	$ 110.00	$ 57.20	$ 72.00	$ 129.20	$ 258.40
67			2P/100A Breaker	EA	8	0%	8	0.93	$ 110.00	$ 102.41	$ 216.08	$ 318.49	$ 2,547.92
68			3P/15A Breaker	EA	1	0%	1	0.51	$ 110.00	$ 56.10	$ 52.00	$ 108.10	$ 108.10
69			3P/25A Breaker	EA	1	0%	1	0.55	$ 110.00	$ 60.50	$ 72.00	$ 132.50	$ 132.50
70			3P/40A Breaker	EA	1	0%	1	0.59	$ 110.00	$ 64.90	$ 91.80	$ 156.70	$ 156.70
71			3P/45A Breaker	EA	1	0%	1	0.60	$ 110.00	$ 66.00	$ 92.55	$ 158.55	$ 158.55
72			3P/100A Breaker	EA	8	0%	8	0.98	$ 110.00	$ 107.80	$ 320.00	$ 427.80	$ 3,422.40
73			3P/100A MCB	EA	5	0%	5	0.98	$ 110.00	$ 107.80	$ 425.23	$ 533.03	$ 2,665.15

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Date: 28-Sep-26

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74			3P/110A Breaker	EA	1	0%	1	1.05	$ 110.00	$ 115.50	$ 345.65	$ 461.15	$ 461.15
75			3P/125A Breaker	EA	1	0%	1	1.10	$ 110.00	$ 121.00	$ 358.68	$ 479.68	$ 479.68
76			3P/175A Breaker	EA	1	0%	1	1.55	$ 110.00	$ 170.50	$ 595.63	$ 766.13	$ 766.13
77			3P/175A MCB	EA	1	0%	1	1.55	$ 110.00	$ 170.50	$ 692.15	$ 862.65	$ 862.65
78			3P/225A Breaker	EA	1	0%	1	1.80	$ 110.00	$ 198.00	$ 810.00	$ 1,008.00	$ 1,008.00
79			3P/300A Breaker	EA	2	0%	2	2.00	$ 110.00	$ 220.00	$ 1,195.00	$ 1,415.00	$ 2,830.00
80			3P/300A MCB	EA	2	0%	2	2.10	$ 110.00	$ 231.00	$ 1,312.15	$ 1,543.15	$ 3,086.30
81			3P/350A Breaker	EA	1	0%	1	2.25	$ 110.00	$ 247.50	$ 1,345.26	$ 1,592.76	$ 1,592.76
82			3P/500A MCB	EA	1	0%	1	2.60	$ 110.00	$ 286.00	$ 2,565.23	$ 2,851.23	$ 2,851.23
83			3P/800A MCB	EA	1	0%	1	3.59	$ 110.00	$ 394.90	$ 5,245.23	$ 5,640.13	$ 5,640.13
84			3P/1200A GFP MCB	EA	1	0%	1	4.39	$ 110.00	$ 482.90	$ 7,154.88	$ 7,637.78	$ 7,637.78
			PANEL										
85			Panel DPL: 600A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 30 Poles, Surface	EA	1	0%	1	7.85	$ 110.00	$ 863.50	$ 6,512.23	$ 7,375.73	$ 7,375.73
86			Panel EV: 800A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 54 Poles, Surface	EA	1	0%	1	10.25	$ 110.00	$ 1,127.50	$ 8,551.23	$ 9,678.73	$ 9,678.73
87			Panel HH: 400A, 480/277V, 3Ph, 4W, Mains: MCB, 35KAIC, 30 Poles, Surface	EA	1	0%	1	6.18	$ 110.00	$ 679.80	$ 4,856.77	$ 5,536.57	$ 5,536.57
88			Panel HL: 125A, 480/277V, 3Ph, 4W, Mains: MCB, 35KAIC, 30 Poles, Surface	EA	1	0%	1	3.88	$ 110.00	$ 426.80	$ 1,688.70	$ 2,115.50	$ 2,115.50
89			Panel L1: 125A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 30 Poles, Surface	EA	1	0%	1	3.88	$ 110.00	$ 426.80	$ 1,688.70	$ 2,115.50	$ 2,115.50
90			Panel L2: 125A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 30 Poles, Surface	EA	1	0%	1	3.88	$ 110.00	$ 426.80	$ 1,688.70	$ 2,115.50	$ 2,115.50
91			Panel L3: 225A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 52 Poles, Surface	EA	1	0%	1	4.36	$ 110.00	$ 479.60	$ 2,641.15	$ 3,120.75	$ 3,120.75
92			Panel L4: 125A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 30 Poles, Surface	EA	1	0%	1	3.88	$ 110.00	$ 426.80	$ 1,688.70	$ 2,115.50	$ 2,115.50
93			Panel LH: 125A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 42 Poles, Surface	EA	1	0%	1	4.15	$ 110.00	$ 456.50	$ 1,855.44	$ 2,311.94	$ 2,311.94
94			Panel PV: 400A, 480/277V, 3Ph, 4W, Mains: MCB, 35KAIC, 12 Poles, Surface	EA	1	0%	1	6.18	$ 110.00	$ 679.80	$ 4,856.77	$ 5,536.57	$ 5,536.57
95			Main Switchboard MS-N: 2000A, 480/277V, 3PH, 4W, Mains: MCB, NEMA-3R	EA	1	0%	1	40.12	$ 110.00	$ 4,413.20	$ 17,800.00	$ 22,213.20	$ 22,213.20
			Concrete Base	EA	1	0%	1	2.25	$ 110.00	$ 247.50	$ 560.12	$ 807.62	$ 807.62
			DEVICES										
96			300A SMUD PV Meter With CT	EA	1	0%	1	4.15	$ 110.00	$ 456.50	$ 2,456.23	$ 2,912.73	$ 2,912.73
97			1200A Meter With CT	EA	1	0%	1	21.14	$ 110.00	$ 2,325.40	$ 11,187.00	$ 13,512.40	$ 13,512.40
98			TR-1: 150KVA Transformer 480-208/120V	EA	1	0%	1	30.25	$ 110.00	$ 3,327.50	$ 15,700.00	$ 19,027.50	$ 19,027.50
99			TR-2: 225KVA Transformer 480-208/120V	EA	1	0%	1	35.22	$ 110.00	$ 3,874.20	$ 21,200.00	$ 25,074.20	$ 25,074.20
			DISCONNECT SWITCH										
100			1P/20A Disconnect Switch	EA	30	0%	30	0.42	$ 110.00	$ 46.20	$ 42.13	$ 88.33	$ 2,649.90
101			2P/15A Disconnect Switch	EA	6	0%	6	0.45	$ 110.00	$ 49.50	$ 85.99	$ 135.49	$ 812.94
102			2P/20A Disconnect Switch	EA	2	0%	2	0.58	$ 110.00	$ 63.80	$ 101.00	$ 164.80	$ 329.60
103			3P/25A Disconnect Switch	EA	1	0%	1	0.63	$ 110.00	$ 69.30	$ 122.99	$ 192.29	$ 192.29
104			3P/30A Fusible Disconnect Switch, NEMA-1	EA	1	0%	1	0.75	$ 110.00	$ 82.50	$ 180.23	$ 262.73	$ 262.73
105			3P/300A Disconnect Switch (For PV, Rating Assumed)	EA	1	0%	1	3.15	$ 110.00	$ 346.50	$ 619.00	$ 965.50	$ 965.50
			GROUNDING										
106			3/4" x 10' CU Grounding Rod	EA	1	0%	1	0.25	$ 110.00	$ 27.50	$ 44.12	$ 71.62	$ 71.62
107			Ground Busbar	EA	1	0%	1	1.15	$ 110.00	$ 126.50	$ 294.19	$ 420.69	$ 420.69
108			Neutral Busbar	EA	1	0%	1	0.42	$ 110.00	$ 46.20	$ 66.00	$ 112.20	$ 112.20
109			#2/0 CU Grounding Conductor	LF	25	10%	28	0.016	$ 110.00	$ 1.76	$ 3.40	$ 5.16	$ 141.90
			POWER										
			CONDUIT										
110			1/2" EMT Conduit	LF	135	10%	149	0.05	$ 110.00	$ 5.17	$ 1.39	$ 6.56	$ 974.16
111			3/4" EMT Conduit	LF	9421	10%	10364	0.06	$ 110.00	$ 6.82	$ 2.03	$ 8.85	$ 91,717.13
112			3/4" PVC Conduit	LF	268	10%	295	0.06	$ 110.00	$ 6.05	$ 2.18	$ 8.23	$ 2,424.48
			CONDUCTOR										
113			#12 CU THHN/THWN	LF	19358	10%	21294	0.007	$ 110.00	$ 0.77	$ 0.25	$ 1.02	$ 21,719.79
114			#10 CU THHN/THWN	LF	9045	10%	9949	0.008	$ 110.00	$ 0.88	$ 0.38	$ 1.26	$ 12,536.23
115			#8 CU THHN/THWN	LF	1113	10%	1225	0.009	$ 110.00	$ 0.99	$ 0.56	$ 1.55	$ 1,898.07

E2.1.1, E2.1.2, E2.2.1, E2.2.2, E2.3.1, E2.3.2, E2.4.1, E2.4.2, E2.5.1, E3.1, E3.2, E3.3 & E3.4

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			DEVICE										
116			Special Purpose Receptacle, 20A, 220V, W/ Buck/Boost Transformer, .5KVA Fed	EA	2	0%	2	0.30	$ 110.00	$ 33.00	$ 55.59	$ 88.59	$ 177.18
117			20A Duplex Receptacle	EA	15	0%	15	0.35	$ 110.00	$ 38.50	$ 31.00	$ 69.50	$ 1,042.50
118			2P/20 Special Receptacle	EA	1	0%	1	0.35	$ 110.00	$ 38.50	$ 31.00	$ 69.50	$ 69.50
119			Duplex Receptacle, 30A, 280V	EA	1	0%	1	0.35	$ 110.00	$ 38.50	$ 44.36	$ 82.86	$ 82.86
120			Duplex Receptacle, 40A W/ Buck-Boost Transformer 1 KVA	EA	1	0%	1	1.25	$ 110.00	$ 137.50	$ 166.99	$ 304.49	$ 304.49
121			P: Ceiling Fan Touch Screen Controller	EA	1	0%	1	0.95	$ 110.00	$ 104.50	$ 203.40	$ 307.90	$ 307.90
122			Duplex Receptacle	EA	11	0%	11	0.30	$ 110.00	$ 33.00	$ 8.50	$ 41.50	$ 456.50
123			Duplex Receptacle, Floor Mounted Wiremold 800CILCK W/ Cover	EA	2	0%	2	0.40	$ 110.00	$ 44.00	$ 58.63	$ 102.63	$ 205.26
124			Duplex Receptacle, GFCI, NEMA 5-20R	EA	9	0%	9	0.35	$ 110.00	$ 38.50	$ 31.50	$ 70.00	$ 630.00
125			Duplex Receptacle, GFCI, NEMA 5-20R, Metal WP Enclosure W/ Cover	EA	6	0%	6	0.45	$ 110.00	$ 49.50	$ 38.69	$ 88.19	$ 529.14
126			Duplex Receptacle, NEMA 5-20R	EA	97	0%	97	0.35	$ 110.00	$ 38.50	$ 31.50	$ 70.00	$ 6,790.00
127			Power Pole, Wiremold Series 30TP-4	EA	2	0%	2	8.50	$ 110.00	$ 935.00	$ 675.00	$ 1,610.00	$ 3,220.00
128			Quad Receptacle	EA	1	0%	1	0.40	$ 110.00	$ 44.00	$ 45.09	$ 89.09	$ 89.09
129			Special Purpose Receptacle, 20A, 220V, W/ Buck/Boost Transformer, .5KVA Fed	EA	3	0%	3	0.30	$ 110.00	$ 33.00	$ 55.59	$ 88.59	$ 265.77
130			Power Pole, 3/8" hilti kb-tz Anchor And Large Flat Washer W/ 2" Embedment, Ins	EA	17	0%	17	0.08	$ 110.00	$ 9.17	$ 13.12	$ 22.29	$ 378.87
			LIGHTING										
			CONDUIT										
131			3/4" EMT Conduit	LF	4529	10%	4982	0.06	$ 110.00	$ 6.82	$ 2.03	$ 8.85	$ 44,089.82
			CONDUCTOR										
132			#12 CU THHN/THWN	LF	5438	10%	5982	0.007	$ 110.00	$ 0.77	$ 0.25	$ 1.02	$ 6,101.44
133			#10 CU THHN/THWN	LF	6672	10%	7339	0.008	$ 110.00	$ 0.88	$ 0.38	$ 1.26	$ 9,247.24
134			#8 CU THHN/THWN	LF	1478	10%	1626	0.009	$ 110.00	$ 0.99	$ 0.56	$ 1.55	$ 2,520.81
			LIGHTING FIXTURES										
135			AK: LED, 20 WATTS, 4000K, 80 CRI EXTERIOR UTILITY YARD, WILLIAM	EA	4	0%	4	0.30	$ 110.00	$ 33.00	$ 65.25	$ 98.25	$ 393.00
136			A: LED, 132W/8FT,3500K°, 80CRI HIGH BAY-AISLE, LITHONIA MLX-L8-	EA	47	0%	47	0.95	$ 110.00	$ 104.50	$ 305.58	$ 410.08	$ 19,273.76
137			A,EM: LED, 132W/8FT,3500K°, 80CRI HIGH BAY-AISLE, LITHONIA MLX	EA	32	0%	32	0.95	$ 110.00	$ 104.50	$ 305.58	$ 410.08	$ 13,122.56
138			A1: HIGH BAY - AISLE, LITHONIA MLX-L8-20000L-80CRI-35K-WGDL-M	EA	3	0%	3	0.95	$ 110.00	$ 104.50	$ 305.58	$ 410.08	$ 1,230.24
139			A1,EM: HIGH BAY - AISLE, LITHONIA MLX-L8-20000L-80CRI-35K-WGD	EA	7	0%	7	0.95	$ 110.00	$ 104.50	$ 305.58	$ 410.08	$ 2,870.56
140			AA: EXTERIOR WALL MOUNTED, WILLIAMS WPTZ-L41/740-T3-OCC-S2-	EA	12	0%	12	0.40	$ 110.00	$ 44.00	$ 155.25	$ 199.25	$ 2,391.00
141			AA,EM: EXTERIOR WALL MOUNTED, WILLIAMS WPTZ-L41/740-T3-OCC	EA	5	0%	5	0.40	$ 110.00	$ 44.00	$ 155.25	$ 199.25	$ 996.25
142			AB: LED, 32 WATTS, 4000K, 80 CRI, EXTERIOR UNDER CANOPY, BHDL6-	EA	5	0%	5	0.45	$ 110.00	$ 49.50	$ 159.23	$ 208.73	$ 1,043.65
143			AB,EM: LED, 32 WATTS, 4000K, 80 CRI, EXTERIOR UNDER CANOPY, BHI	EA	2	0%	2	0.45	$ 110.00	$ 49.50	$ 159.23	$ 208.73	$ 417.46
144			B: LED, 37W, 3500K,90CRI, LAY IN OFFICE WHSPR-2X4-90CRI-35K-48	EA	83	0%	83	1.45	$ 110.00	$ 159.50	$ 683.43	$ 842.93	$ 69,963.19
145			B,EM: LED, 37W, 3500K,90CRI, LAY IN OFFICE WHSPR-2X4-90CRI-35K	EA	26	0%	26	1.45	$ 110.00	$ 159.50	$ 683.43	$ 842.93	$ 21,916.18
146			C: LED, 26.7W, 3500K, 80CRI, SURFACE 1X4, LITHONIA STL4-30L-SLD-LI	EA	12	0%	12	0.80	$ 110.00	$ 88.00	$ 358.36	$ 446.36	$ 5,356.32
147			C,EM: LED, 26.7W, 3500K, 80CRI, SURFACE 1X4, LITHONIA STL4-30L-SL	EA	5	0%	5	0.80	$ 110.00	$ 88.00	$ 358.36	$ 446.36	$ 2,231.80
148			D: LED, 16W, 3500K,90CRI, WALL SCONCE, VISA LIGHTING CB3107-L35	EA	3	0%	3	0.40	$ 110.00	$ 44.00	$ 144.45	$ 188.45	$ 565.35
149			E: LED, 15.3W/FT 3500K, 90CRI, PENDANT, MARK S2PID-LCB-90CRI-	EA	6	0%	6	0.95	$ 110.00	$ 104.50	$ 933.24	$ 1,037.74	$ 6,226.44
150			E,EM: LED, 15.3W/FT 3500K, 90CRI, PENDANT, MARK S2PID-LCB-90C	EA	9	0%	9	0.95	$ 110.00	$ 104.50	$ 933.24	$ 1,037.74	$ 9,339.66
151			X: EXIT LIGHT - OFFICE, AA-DXN-1-G EMERGI-LITE	EA	12	0%	12	0.45	$ 110.00	$ 49.50	$ 273.84	$ 323.34	$ 3,880.08
152			X1: EXIT LIGHT -WAREHOUSE, GA-SVX24N-1-G-D-2-LJ EMERGI-LITE	EA	5	0%	5	0.45	$ 110.00	$ 49.50	$ 910.79	$ 960.29	$ 4,801.45
			LIGHTING CONTROL										
153			4-Way Dimmer Switch	EA	11	0%	11	0.25	$ 110.00	$ 27.50	$ 34.98	$ 62.48	$ 687.28
154			Day Light Sensor, Ceiling Mounted	EA	16	0%	16	0.75	$ 110.00	$ 82.50	$ 134.13	$ 216.63	$ 3,466.08
155			Lighting Control Panel	EA	1	0%	1	3.12	$ 110.00	$ 343.20	$ 1,854.12	$ 2,197.32	$ 2,197.32
156			Occupancy Sensor, Ceiling Mounted	EA	27	0%	27	0.75	$ 110.00	$ 82.50	$ 153.30	$ 235.80	$ 6,366.60
157			Single Pole Dimmer Switch	EA	13	0%	13	0.22	$ 110.00	$ 24.20	$ 23.97	$ 48.17	$ 626.21
158			Single Pole Occupancy Sensor Switch With Manual Override	EA	8	0%	8	0.35	$ 110.00	$ 38.50	$ 45.12	$ 83.62	$ 668.96
159			Single Pole Switch	EA	6	0%	6	0.20	$ 110.00	$ 22.00	$ 16.55	$ 38.55	$ 231.30
160			Three Way Dimmer Switch	EA	13	0%	13	0.22	$ 110.00	$ 24.20	$ 23.55	$ 47.75	$ 620.75
161			Time Clock	EA	1	0%	1	1.25	$ 110.00	$ 137.50	$ 235.00	$ 372.50	$ 372.50
			MISCELLANEOUS										
162			Junction Box	EA	43	0%	43	0.52	$ 110.00	$ 57.20	$ 15.88	$ 73.08	$ 3,142.44

DETAILED BREAKDOWN OF ITEMS

Prepared for: Warehouse-Office Addition Sacramento County Office of ED. 10170 Missile Way, Mather, CA 95655
Project ID: 3182026
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
163			Junction Box Floor Mounted W/ Wiremold Series 880 With Two Compartment	EA	3	0%	3	0.85	$ 110.00	$ 93.50	$ 137.39	$ 230.89	$ 692.67
			SAW CUT										
164			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	183	0%	183	0.04	$ 110.00	$ 4.40	$ 0.17	$ 4.57	$ 836.31
												SUBTOTAL	**$ 633,078**
			COMMUNICATION										
			TELECOMMUNICATION										
			CONDUIT										
165			3/4" EMT Conduit	LF	2518	10%	2770	0.06	$ 110.00	$ 6.82	$ 2.03	$ 8.85	$ 24,511.27
166			1" EMT Conduit	LF	931	10%	1024	0.07	$ 110.00	$ 7.70	$ 3.46	$ 11.16	$ 11,426.50
			CONDUCTOR										
167			CAT6A Cable	LF	10187	10%	11205	0.010	$ 110.00	$ 1.10	$ 0.28	$ 1.38	$ 15,463.33
168			Coaxial Cable	LF	69	10%	75	0.01	$ 110.00	$ 1.32	$ 0.88	$ 2.20	$ 165.99
			DEVICES										
169			Data Outlet	EA	3	0%	3	0.250	$ 110.00	$ 27.50	$ 16.45	$ 43.95	$ 131.85
			RJ-45 Connector	EA	3	0%	3	0.050	$ 110.00	$ 5.50	$ 0.95	$ 6.45	$ 19.35
			Back Box	EA	3	0%	3	0.280	$ 110.00	$ 30.80	$ 7.15	$ 37.95	$ 113.85
			Faceplate	EA	3	0%	3	0.22	$ 110.00	$ 24.20	$ 11.99	$ 36.19	$ 108.57
170			2-Port Data Outlet	EA	26	0%	26	0.25	$ 110.00	$ 27.50	$ 15.23	$ 42.73	$ 1,110.98
			RJ-45 Connector	EA	52	0%	52	0.050	$ 110.00	$ 5.50	$ 0.95	$ 6.45	$ 335.40
			Back Box	EA	26	0%	26	0.280	$ 110.00	$ 30.80	$ 7.15	$ 37.95	$ 986.70
			Faceplate	EA	26	0%	26	0.22	$ 110.00	$ 24.20	$ 11.99	$ 36.19	$ 940.94
171			2-Port Data Outlet, Floor Mounted	EA	2	0%	2	0.25	$ 110.00	$ 27.50	$ 15.23	$ 42.73	$ 85.46
			RJ-45 Connector	EA	4	0%	4	0.050	$ 110.00	$ 5.50	$ 0.95	$ 6.45	$ 25.80
			Back Box	EA	2	0%	2	0.280	$ 110.00	$ 30.80	$ 7.15	$ 37.95	$ 75.90
			Faceplate	EA	2	0%	2	0.22	$ 110.00	$ 24.20	$ 11.99	$ 36.19	$ 72.38
172			3-Port Data Outlet	EA	1	0%	1	0.25	$ 110.00	$ 27.50	$ 15.23	$ 42.73	$ 42.73
			RJ-45 Connector	EA	3	0%	3	0.050	$ 110.00	$ 5.50	$ 0.95	$ 6.45	$ 19.35
			Back Box	EA	1	0%	1	0.280	$ 110.00	$ 30.80	$ 7.15	$ 37.95	$ 37.95
			Faceplate	EA	1	0%	1	0.22	$ 110.00	$ 24.20	$ 11.99	$ 36.19	$ 36.19
173			Tele Outlet	EA	1	0%	1	0.25	$ 110.00	$ 27.50	$ 15.23	$ 42.73	$ 42.73
			RJ-45 Connector	EA	1	0%	1	0.050	$ 110.00	$ 5.50	$ 0.95	$ 6.45	$ 6.45
			Back Box	EA	1	0%	1	0.280	$ 110.00	$ 30.80	$ 7.15	$ 37.95	$ 37.95
			Faceplate	EA	1	0%	1	0.22	$ 110.00	$ 24.20	$ 11.99	$ 36.19	$ 36.19
174			TV Outlet	EA	2	0%	2	0.25	$ 110.00	$ 27.50	$ 15.23	$ 42.73	$ 85.46
			F-Connector	EA	2	0%	2	0.050	$ 110.00	$ 5.50	$ 0.95	$ 6.45	$ 12.90
			Back Box	EA	2	0%	2	0.280	$ 110.00	$ 30.80	$ 7.15	$ 37.95	$ 75.90
			Faceplate	EA	2	0%	2	0.22	$ 110.00	$ 24.20	$ 11.99	$ 36.19	$ 72.38
175			Base Station With Battery Backup Minimum 4 Hours, #2500-205D	EA	1	0%	1	3.45	$ 110.00	$ 379.50	$ 1,032.40	$ 1,411.90	$ 1,411.90
176			Call Box, #2100-958NSR	EA	1	0%	1	2.18	$ 110.00	$ 239.80	$ 703.85	$ 943.65	$ 943.65
177	**E2.3.1, E2.3.2**		IDF	EA	1	0%	1	3.85	$ 110.00	$ 423.50	$ 1,850.00	$ 2,273.50	$ 2,273.50
178		**O.F.C.I**	Wireless Access Point, Ceiling Mounted	EA	9	0%	9	0.74	$ 110.00	$ 81.40	$ 109.99	$ 191.39	$ 1,722.51
179			Wireless Access Point, Wall Mounted	EA	4	0%	4	0.74	$ 110.00	$ 81.40	$ 109.99	$ 191.39	$ 765.56
			SECURITY										
			CONDUIT										
180			3/4" EMT Conduit With Pull string	LF	578	10%	635	0.06	$ 110.00	$ 6.82	$ 2.05	$ 8.87	$ 5,634.86
181			3/4" EMT Conduit	LF	2313	10%	2544	0.06	$ 110.00	$ 6.82	$ 2.03	$ 8.85	$ 22,517.83
182			1-1/2" EMT Conduit With Pull string	LF	394	10%	433	0.09	$ 110.00	$ 9.79	$ 7.04	$ 16.83	$ 7,288.38
			CONDUCTOR										
183			CAT6A Cable	LF	1175	10%	1292	0.010	$ 110.00	$ 1.10	$ 0.28	$ 1.38	$ 1,783.36
184			#18 CU THHN/THWN	LF	2277	10%	2504	0.005	$ 110.00	$ 0.55	$ 0.09	$ 0.64	$ 1,602.68
			DEVICES										

DETAILED BREAKDOWN OF ITEMS

Prepared for: Warehouse-Office Addition Sacramento County Office of ED. 10170 Missile Way, Mather, CA 95655
Project ID: 3182026
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
185		Security Door Or Window Contact	Back Box, For Future	EA	7	0%	7	0.25	$ 110.00	$ 27.50	$ 7.11	$ 34.61	$ 242.27
186		Security System Motion Sensor	Back Box, For Future	EA	4	0%	4	0.25	$ 110.00	$ 27.50	$ 7.11	$ 34.61	$ 138.44
187			Card Reader	EA	18	0%	18	0.45	$ 110.00	$ 49.50	$ 59.00	$ 108.50	$ 1,953.00
188		O.F.C.I	CCTV Camera	EA	5	0%	5	0.85	$ 110.00	$ 93.50	$ 185.12	$ 278.62	$ 1,393.10
189			CCTV Camera, Wall Mounted	EA	6	0%	6	0.85	$ 110.00	$ 93.50	$ 185.12	$ 278.62	$ 1,671.72
190			Keypad Back For Future	EA	4	0%	4	0.25	$ 110.00	$ 27.50	$ 26.16	$ 53.66	$ 214.64
			AUDIO/VISUAL SYSTEM										
			CONDUIT										
191			3/4" EMT Conduit	LF	1719	10%	1891	0.06	$ 110.00	$ 6.82	$ 2.03	$ 8.85	$ 16,737.39
			CONDUCTOR										
192			CAT6A Cable	LF	1719	10%	1891	0.010	$ 110.00	$ 1.10	$ 0.28	$ 1.38	$ 2,609.90
			DEVICES										
193			Exterior Speaker, Wall Mounted	EA	3	0%	3	1.05	$ 110.00	$ 115.50	$ 259.98	$ 375.48	$ 1,126.44
194		O.F.C.I	Interior Horn Speaker, Wall Mounted	EA	6	0%	6	1.15	$ 110.00	$ 126.50	$ 318.25	$ 444.75	$ 2,668.50
195			Interior Speaker, Wall Mounted	EA	8	0%	8	1.05	$ 110.00	$ 115.50	$ 259.98	$ 375.48	$ 3,003.84
			MISCELLANEOUS										
196		Data Connection For Modular	Junction Box	EA	15	0%	15	0.52	$ 110.00	$ 57.20	$ 15.88	$ 73.08	$ 1,096.20
												SUBTOTAL	**$ 134,880**
			ELECTRONUC SAFETY AND SECURITY										
			FIRE ALARM										
			CONDUIT										
197			3/4" EMT Conduit	LF	4528	10%	4980	0.06	$ 110.00	$ 6.82	$ 1.96	$ 8.78	$ 43,737.62
198			1" EMT Conduit	LF	92	10%	101	0.07	$ 110.00	$ 7.70	$ 3.29	$ 10.99	$ 1,106.55
199			2" EMT Conduit	LF	215	10%	236	0.10	$ 110.00	$ 11.00	$ 8.03	$ 19.03	$ 4,489.66
			CONDUCTOR										
200			2#12, Shielded Cable	LF	1369	10%	1506	0.02	$ 110.00	$ 2.42	$ 0.72	$ 3.14	$ 4,727.70
201			2#12, Shielded Cable-WEST PENN 999	LF	10	10%	11	0.02	$ 110.00	$ 1.98	$ 0.61	$ 2.59	$ 28.49
202			2#12, WEST PENN 998 Cable	LF	1369	10%	1506	0.02	$ 110.00	$ 1.65	$ 0.52	$ 2.17	$ 3,267.23
203			2#12, WEST PENN 999 Cable	LF	215	10%	236	0.02	$ 110.00	$ 2.20	$ 0.67	$ 2.87	$ 677.18
204			2#16, WEST PENN Cable	LF	1703	10%	1873	0.01	$ 110.00	$ 1.10	$ 0.28	$ 1.38	$ 2,584.55
205			2#16, WEST PENN 990 Cable	LF	72	10%	79	0.01	$ 110.00	$ 1.32	$ 0.35	$ 1.67	$ 131.35
206			4#12, WEST PENN 60164B Cable	LF	10	10%	11	0.03	$ 110.00	$ 3.52	$ 1.20	$ 4.72	$ 51.92
207			4#12,WEST PENN 60164B Cable	LF	87	10%	96	0.03	$ 110.00	$ 3.52	$ 1.20	$ 4.72	$ 454.25
			DEVICES										
208			Fire Alarm 200 Deg Heat Detector, Ceiling Mounted, SILENT KNIGHT SK-HE	EA	2	0%	2	0.90	$ 110.00	$ 99.00	$ 109.47	$ 208.47	$ 416.94
209			Fire Alarm Amplifier, SILENT KNIGHT EVS-50W	EA	1	0%	1	3.24	$ 110.00	$ 356.40	$ 1,180.15	$ 1,536.55	$ 1,536.55
210			Fire Alarm Audible, WP, SYSTEM SENSOR SPRK-R With MWBB METAL BA	EA	4	0%	4	0.95	$ 110.00	$ 104.50	$ 146.61	$ 251.11	$ 1,004.44
211			Fire Alarm Audio/Visual Strobe, 15CD, SYSTEM SENSOR SPSCWL-P	EA	4	0%	4	0.65	$ 110.00	$ 71.50	$ 96.27	$ 167.77	$ 671.08
212			Fire Alarm Audio/Visual Strobe, 30CD, SYSTEM SENSOR SPSCWL-P	EA	4	0%	4	0.68	$ 110.00	$ 74.80	$ 127.04	$ 201.84	$ 807.36
213	E2.4.1, E2.4.2		Fire Alarm Audio/Visual Strobe, 75CD, SYSTEM SENSOR SPSCWL-P	EA	3	0%	3	0.70	$ 110.00	$ 77.00	$ 150.49	$ 227.49	$ 682.47
214			Fire Alarm Audio/Visual Strobe, 75CD, SYSTEM SENSOR SPSRL-P, Wall Mour	EA	1	0%	1	0.72	$ 110.00	$ 79.20	$ 165.59	$ 244.79	$ 244.79
215			Fire Alarm Audio/Visual Strobe, 177CD, SYSTEM SENSOR SPSCWL-P	EA	2	0%	2	0.75	$ 110.00	$ 82.50	$ 199.00	$ 281.50	$ 563.00
216			Fire Alarm Audio/Visual Strobe, Wall Mounted	EA	2	0%	2	0.68	$ 110.00	$ 74.80	$ 144.67	$ 219.47	$ 438.94
217			Fire Alarm Beam Detector With Reflector, SILENT KNIGHT SK-BEAM	EA	5	0%	5	4.26	$ 110.00	$ 468.60	$ 964.81	$ 1,433.41	$ 7,167.05
218			Fire Alarm Control Panel, SILENT KNIGHT 6820EVS	EA	1	0%	1	5.96	$ 110.00	$ 655.60	$ 3,570.00	$ 4,225.60	$ 4,225.60
219			Fire Alarm Duct Smoke Detector, SILENT KNIGHT SK-DUCT	EA	2	0%	2	0.85	$ 110.00	$ 93.50	$ 261.55	$ 355.05	$ 710.10
220			Fire Alarm Manual Pull station, SILENT KNIGHT SK-PULL-SA	EA	1	0%	1	0.60	$ 110.00	$ 66.00	$ 118.50	$ 184.50	$ 184.50

DETAILED BREAKDOWN OF ITEMS

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Project ID: 3182026
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
221			Fire Alarm Monitor Module, SILENT KNIGHT SK-MONITOR	EA	3	0%	3	0.56	$ 110.00	$ 61.60	$ 110.00	$ 171.60	$ 514.80
222			Fire Alarm Photoelectric Smoke Detector, SILENT KNIGHT SK-PHOTO-W, Ceil	EA	41	0%	41	0.65	$ 110.00	$ 71.50	$ 135.00	$ 206.50	$ 8,466.50
223			Fire Alarm Photoelectric Smoke Detector, SILENT KNIGHT SK-PHOTO-W, Wal	EA	5	0%	5	0.56	$ 110.00	$ 61.60	$ 110.00	$ 171.60	$ 858.00
224			Fire Alarm Relay Module, SILENT KNIGHT SK-RELAY	EA	7	0%	7	0.58	$ 110.00	$ 63.80	$ 116.00	$ 179.80	$ 1,258.60
225			Fire Alarm Remote Annunciator Panel	EA	1	0%	1	3.12	$ 110.00	$ 343.20	$ 699.72	$ 1,042.92	$ 1,042.92
226			Fire Alarm Signal Terminal Backboard	EA	1	0%	1	0.62	$ 110.00	$ 68.20	$ 153.99	$ 222.19	$ 222.19
227			Fire Alarm Visual Strobe, 15CD, SYSTEM SENSOR SCRL, Ceiling Mounted	EA	7	0%	7	0.65	$ 110.00	$ 71.50	$ 82.12	$ 153.62	$ 1,075.34
228			Fire Alarm Visual Strobe, 15CD, SYSTEM SENSOR SRL-P, Wall Mounted	EA	4	0%	4	0.60	$ 110.00	$ 66.00	$ 78.00	$ 144.00	$ 576.00
229			Fire Alarm Visual Strobe, 30CD, SYSTEM SENSOR SCRL, Ceiling Mounted	EA	2	0%	2	0.68	$ 110.00	$ 74.80	$ 115.12	$ 189.92	$ 379.84
230			Fire Alarm Visual Strobe, 75CD, SYSTEM SENSOR SRL-P, Wall Mounted	EA	2	0%	2	0.70	$ 110.00	$ 77.00	$ 142.22	$ 219.22	$ 438.44
231			Fire Alarm Visual Strobe, 177CD, SYSTEM SENSOR SCRL, Ceiling Mounted	EA	2	0%	2	0.75	$ 110.00	$ 82.50	$ 185.00	$ 267.50	$ 535.00
												SUBTOTAL	$ 95,277
			UTILITIES										
			DISTRIBUTION										
			CONDUIT										
232			1-1/2" PVC SCH 40 Conduit	LF	1950	10%	2145	0.1	$ 110.00	$ 7.13	$ 2.82	$ 9.95	$ 21,339.14
233			1-1/2" PVC SCH 40 Conduit With Pull String	LF	5811	10%	6393	0.1	$ 110.00	$ 7.13	$ 2.82	$ 9.95	$ 63,595.68
234			2" PVC SCH 40 Conduit With Pull String	LF	7933	10%	8727	0.1	$ 110.00	$ 7.93	$ 3.95	$ 11.88	$ 103,675.27
235			3" PVC SCH 40 Conduit With Pull String	LF	568	10%	625	0.1	$ 110.00	$ 12.92	$ 5.69	$ 18.61	$ 11,627.69
236			4" PVC SCH 40 Conduit	LF	166	10%	183	0.1	$ 110.00	$ 15.86	$ 7.72	$ 23.58	$ 4,310.60
237			5" PVC SCH 40 Conduit With Pull String	LF	41	10%	45	0.2	$ 110.00	$ 20.40	$ 10.38	$ 30.79	$ 1,389.20
			CONDUCTOR										
238			#8 CU THHN/THWN	LF	1950	10%	2145	0.009	$ 110.00	$ 0.99	$ 0.56	$ 1.55	$ 3,324.75
239			#1 CU THHN/THWN	LF	5458	10%	6004	0.014	$ 110.00	$ 1.54	$ 2.26	$ 3.80	$ 22,814.44
240			#600 MCM CU THHN/THWN	LF	665	10%	731	0.040	$ 110.00	$ 4.40	$ 15.65	$ 20.05	$ 14,659.52
			LUGS										
241			Compression Lug CU With 1-Hole , #8 CU Wire	EA	28	0%	28	0.40	$ 110.00	$ 44.00	$ 2.64	$ 46.64	$ 1,305.92
242			Heat Shrink Tubing for #8 CU Wire	EA	28	0%	28	0.22	$ 110.00	$ 24.20	$ 0.19	$ 24.39	$ 683.03
243			Compression Lug CU With 1-Hole , #1 CU Wire	EA	92	0%	92	0.43	$ 110.00	$ 47.30	$ 4.59	$ 51.89	$ 4,773.88
244			Heat Shrink Tubing for #1 CU Wire	EA	92	0%	92	0.23	$ 110.00	$ 25.30	$ 0.28	$ 25.58	$ 2,353.36
245			Compression Lug CU With 1-Hole , #600 MCM CU Wire	EA	24	0%	24	0.48	$ 110.00	$ 52.80	$ 14.87	$ 67.67	$ 1,624.08
246			Heat Shrink Tubing for #600 MCM CU Wire	EA	24	0%	24	0.25	$ 110.00	$ 27.50	$ 0.36	$ 27.86	$ 668.64
			DEVICES										
247			SMUD Pad Mounted Transformer	EA	1	0%	1	105.00	$ 110.00	$ 11,550.00	$ 23,707.00	$ 35,257.00	$ 35,257.00
248			120" X 150" X 6" SMUD Transformer Pad, Made By JENSEN PRECAST or Appr	EA	1	0%	1	7.12	$ 110.00	$ 783.20	$ 3,500.00	$ 4,283.20	$ 4,283.20
249			EV Level 2 Charging Station (Dual Ports) BLINK SERIES 8 ISO, 16.64KW At 20	EA	2	0%	2	10.21	$ 110.00	$ 1,123.10	$ 10,378.00	$ 11,501.10	$ 23,002.20
250			EV Level 2 Charging Station (Single Port) BLINK SERIES 8 ISO, 16.64KW At 20	EA	1	0%	1	6.55	$ 110.00	$ 720.50	$ 6,499.00	$ 7,219.50	$ 7,219.50
			PHOTOVOLTAIC SYSTEM										
251			PV AC Combiner Panel 'PV', NEMA-3R	EA	1	0%	1	4.87	$ 110.00	$ 535.70	$ 769.99	$ 1,305.69	$ 1,305.69
252			PV Panel, CANADIANSOLAR HiKu6 Mono PERC 555W	EA	290	0%	290	0.75	$ 110.00	$ 82.50	$ 222.00	$ 304.50	$ 88,305.00
253			PV Inverter #1 NEMA-3R, CANADIANSOLAR CSI-66K-T480GL01-UB	EA	1	0%	1	6.98	$ 110.00	$ 767.80	$ 3,538.46	$ 4,306.26	$ 4,306.26
254			PV Inverter #2 NEMA-3R, CANADIANSOLAR CSI-66K-T480GL01-UB	EA	1	0%	1	6.98	$ 110.00	$ 767.80	$ 3,538.46	$ 4,306.26	$ 4,306.26
255			PV Inverter #3 NEMA-3R, CANADIANSOLAR CSI-66K-T480GL01-UB	EA	1	0%	1	6.98	$ 110.00	$ 767.80	$ 3,538.46	$ 4,306.26	$ 4,306.26
256		**Rating Assumed**	3P/125A AC Disconnect Switch	EA	3	0%	3	1.25	$ 110.00	$ 137.50	$ 452.42	$ 589.92	$ 1,769.76
			POWER										
			CONDUIT										
257			3/4" EMT Conduit	LF	320	10%	352	0.06	$ 110.00	$ 6.82	$ 1.96	$ 8.78	$ 3,089.24
258			1" EMT Conduit	LF	19	10%	21	0.07	$ 110.00	$ 7.70	$ 3.29	$ 10.99	$ 235.46

DETAILED BREAKDOWN OF ITEMS

Prepared for: Warehouse-Office Addition Sacramento County Office of ED. 10170 Missile Way, Mather, CA 95655
Project ID: 3182026
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
259			3/4" PVC SCH 40 Conduit	LF	522	10%	574	0.06	$ 110.00	$ 6.05	$ 1.37	$ 7.42	$ 4,262.50
260			1" PVC SCH 40 Conduit	LF	621	10%	683	0.06	$ 110.00	$ 7.04	$ 2.34	$ 9.38	$ 6,404.40
			CONDUCTOR										
261			#12 CU THHN/THWN	LF	405	10%	445	0.007	$ 110.00	$ 0.77	$ 0.25	$ 1.02	$ 453.98
262			#10 CU THHN/THWN	LF	3339	10%	3673	0.008	$ 110.00	$ 0.88	$ 0.38	$ 1.26	$ 4,627.85
263			#8 CU THHN/THWN	LF	438	10%	482	0.009	$ 110.00	$ 0.99	$ 0.56	$ 1.55	$ 746.79
264			#4 CU THHN/THWN	LF	1314	10%	1445	0.011	$ 110.00	$ 1.21	$ 1.32	$ 2.53	$ 3,656.86
			DEVICE										
265			50A/125/250V Twist Lock Receptacle In Lockable WP Metal Box	EA	2	0%	2	0.75	$ 110.00	$ 82.50	$ 134.99	$ 217.49	$ 434.98
266			Gate Operator Connection	EA	7	0%	7	1.20	$ 110.00	$ 132.00	$ -	$ 132.00	$ 924.00
			SITE LIGHTING										
			CONDUIT										
267			3/4" EMT Conduit	LF	217	10%	239	0.06	$ 110.00	$ 6.82	$ 1.96	$ 8.78	$ 2,097.62
268			1" PVC SCH 40 Conduit	LF	4365	10%	4801	0.06	$ 110.00	$ 7.04	$ 2.34	$ 9.38	$ 45,011.62
269			1-1/2" PVC SCH 40 Conduit	LF	809	10%	890	0.08	$ 110.00	$ 8.80	$ 3.13	$ 11.93	$ 10,625.17
			CONDUCTOR										
270			#10 CU THHN/THWN	LF	7444	10%	8189	0.008	$ 110.00	$ 0.88	$ 0.38	$ 1.26	$ 10,317.63
271			#8 CU THHN/THWN	LF	2209	10%	2430	0.009	$ 110.00	$ 0.99	$ 0.56	$ 1.55	$ 3,766.79
272			#6 CU THHN/THWN	LF	9780	10%	10758	0.010	$ 110.00	$ 1.10	$ 0.86	$ 1.96	$ 21,085.03
			LIGHTING FIXTURES										
273			AC: POLE MOUNTED (1) LED LIGHT FIXTURE, GARDCO P26-A01-840-T3	EA	10	0%	10	2.24	$ 110.00	$ 246.40	$ 1,578.92	$ 1,825.32	$ 18,253.20
274			AD: POLE MOUNTED (2) LED LIGHT FIXTURE, GARDCO P26-A01-840-T3	EA	9	0%	9	3.86	$ 110.00	$ 424.60	$ 3,157.84	$ 3,582.44	$ 32,241.96
275			AE: POLE MOUNTED (2) LED LIGHT FIXTURE, GARDCO P26-A01-840-T3	EA	3	0%	3	3.86	$ 110.00	$ 424.60	$ 3,157.84	$ 3,582.44	$ 10,747.32
276	E0.2, E1.1, E1.1A, E1.2, E1.3, E1.4, E1.5 & E1.6		AF: POLE MOUNTED (3) LED LIGHT FIXTURE, GARDCO P26-A01-840-T3	EA	4	0%	4	4.92	$ 110.00	$ 541.20	$ 4,736.76	$ 5,277.96	$ 21,111.84
277			AG: POLE MOUNTED (4) LED LIGHT FIXTURE, GARDCO P26-A01-840-T3	EA	4	0%	4	5.55	$ 110.00	$ 610.50	$ 6,315.68	$ 6,926.18	$ 27,704.72
278			AH: EXTERIOR WALL WASH, ELLIPTIPAR S151-H-6-HGC-M-940Watts: 78	EA	2	0%	2	1.89	$ 110.00	$ 207.90	$ 755.00	$ 962.90	$ 1,925.80
279			AJ: EXTERIOR UNDER SHADE STRUCTURE, KENALL MLHA5-24-R-PP-25	EA	27	0%	27	1.45	$ 110.00	$ 159.50	$ 399.00	$ 558.50	$ 15,079.50
280			Street Light Type A	EA	4	0%	4	1.45	$ 110.00	$ 159.50	$ 316.00	$ 475.50	$ 1,902.00
			24' Square Steel Light Pole	EA	30	0%	30	5.45	$ 110.00	$ 599.50	$ 1,185.25	$ 1,784.75	$ 53,542.50
			Concrete Pole Base	EA	30	0%	30	3.12	$ 110.00	$ 343.20	$ 350.00	$ 693.20	$ 20,796.00
			LIGHTING CONTROLS										
281			Astronomical Time Clock	EA	1	0%	1	1.25	$ 110.00	$ 137.50	$ 497.83	$ 635.33	$ 635.33
282			LTC: Lighting Controller	EA	1	0%	1	8.12	$ 110.00	$ 893.20	$ 3,999.99	$ 4,893.19	$ 4,893.19
283			Photocell	EA	1	0%	1	0.55	$ 110.00	$ 60.50	$ 78.40	$ 138.90	$ 138.90
			TELECOMMUNICATION										
			CONDUIT										
284			2" PVC SCH 40 Conduit	LF	1323	10%	1455	0.06	$ 110.00	$ 6.34	$ 3.25	$ 9.59	$ 13,958.76
285			2" PVC SCH 40 Conduit With Pull String	LF	5928	10%	6521	0.06	$ 110.00	$ 6.34	$ 3.36	$ 9.70	$ 63,265.82
286			3" PVC SCH 40 Conduit	LF	1485	10%	1634	0.09	$ 110.00	$ 10.34	$ 4.78	$ 15.12	$ 24,693.49
287			3" PVC SCH 40 Conduit With Pull String	LF	2109	10%	2320	0.09	$ 110.00	$ 10.34	$ 4.84	$ 15.17	$ 35,204.75
288			4" PVC SCH 40 Conduit	LF	2199	10%	2419	0.12	$ 110.00	$ 12.69	$ 6.49	$ 19.18	$ 46,393.07
289			4" PVC SCH 40 Conduit With Pull String	LF	595	10%	654	0.12	$ 110.00	$ 12.69	$ 6.56	$ 19.25	$ 12,594.67
			CONDUCTOR										
290			Fiber Optic Cable	LF	412	10%	453	0.01	$ 110.00	$ 1.32	$ 0.74	$ 2.06	$ 933.21
291			Combined Fiber Optic/Poe Cable, LEVITON One Reach Assembly, (2) Fibers,	LF	16385	10%	18024	0.01	$ 110.00	$ 1.32	$ 0.75	$ 2.07	$ 37,309.33
			SECURITY										
			CONDUIT										
292			2" EMT Conduit	LF	306	10%	336	0.10	$ 110.00	$ 11.00	$ 8.03	$ 19.03	$ 6,400.85
293			2" PVC SCH 40 Conduit	LF	1620	10%	1782	0.06	$ 110.00	$ 6.34	$ 3.25	$ 9.59	$ 17,098.16
294			2" RGS Conduit	LF	420	10%	462	0.18	$ 110.00	$ 19.58	$ 14.76	$ 34.34	$ 15,849.97

DETAILED BREAKDOWN OF ITEMS

Prepared for: Warehouse-Office Addition Sacramento County Office of ED. 10170 Missile Way, Mather, CA 95655
Project ID: 3182026
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										
295			Combined Fiber Optic/Poe Cable, LEVITON One Reach Assembly, (2) Fibers,	LF	2447	10%	2692	0.01	$ 110.00	$ 1.32	$ 0.75	$ 2.07	$ 5,571.80
			DEVICES										
296		**Owner Furnished & Contractor Install**	CCTV Camera, Building Wall Mounted	EA	3	0%	3	1.38	$ 110.00	$ 151.80	$ -	$ 151.80	$ 455.40
297			CCTV Camera, Light Pole Mounted	EA	17	0%	17	1.38	$ 110.00	$ 151.80	$ -	$ 151.80	$ 2,580.60
298			Future Camera Under PV Shade	EA	6	0%	6	1.25	$ 110.00	$ 137.50	$ -	$ 137.50	$ 825.00
			FIRE ALARM										
			CONDUIT										
299			3/4" PVC SCH 40 Conduit With Pull String	LF	148	10%	162	0.06	$ 110.00	$ 6.82	$ 1.96	$ 8.78	$ 1,425.27
			DEVICES										
300			Monitoring Backflow Double Check Detector	EA	3	0%	3	15.55	$ 110.00	$ 1,710.50	$ 8,452.12	$ 10,162.62	$ 30,487.86
			MISCELLANEOUS										
301			N16 Pull Box	EA	30	0%	30	0.57	$ 110.00	$ 62.70	$ 117.35	$ 180.05	$ 5,401.50
302			N30 Pull Box With Concrete Lid/Hold Down Bolts	EA	1	0%	1	0.62	$ 110.00	$ 68.20	$ 125.80	$ 194.00	$ 194.00
303			N36 Pull Box With Concrete Lid/Hold Down Bolts	EA	1	0%	1	0.65	$ 110.00	$ 71.50	$ 132.79	$ 204.29	$ 204.29
304			Pad Mounted Enclosure For Access Control Equipment	EA	14	0%	14	5.15	$ 110.00	$ 566.50	$ 1,883.00	$ 2,449.50	$ 34,293.00
305			Photoeye	EA	8	0%	8	0.74	$ 110.00	$ 81.40	$ 223.99	$ 305.39	$ 2,443.12
306			Traffic Rated H/20 Christy B3048 Pull Box With Steel Lid	EA	1	0%	1	0.75	$ 110.00	$ 82.50	$ 174.06	$ 256.56	$ 256.56
307			EV Capable Parking Stall	EA	9	0%	9	4.35	$ 110.00	$ 478.50	$ 1,394.00	$ 1,872.50	$ 16,852.50
308			Junction Box (For Motorized Gate)	EA	7	0%	7	0.60	$ 110.00	$ 66.00	$ 83.22	$ 149.22	$ 1,044.54
309			N9 Pull box, H/20 Traffic Rated	EA	13	0%	13	0.52	$ 110.00	$ 57.20	$ 119.24	$ 176.44	$ 2,293.72
310			N36 Pull box, H/20 Traffic Rated	EA	3	0%	3	0.65	$ 110.00	$ 71.50	$ 132.79	$ 204.29	$ 612.87
311			N40 Pull box, H/20 Traffic Rated	EA	5	0%	5	0.75	$ 110.00	$ 82.50	$ 181.92	$ 264.42	$ 1,322.10
312			N48 Pull box, H/20 Traffic Rated	EA	1	0%	1	1.15	$ 110.00	$ 126.50	$ 224.70	$ 351.20	$ 351.20
313			Pull box With (2) Extensions, CHRISTY N30	EA	6	0%	6	0.65	$ 110.00	$ 71.50	$ 102.21	$ 173.71	$ 1,042.26
314			SP1: Street Pedestal, 14 Gauge #304D Stainless Steel	EA	1	0%	1	0.68	$ 110.00	$ 74.80	$ 115.95	$ 190.75	$ 190.75
315			SP2: Street Pedestal, 14 Gauge #304D Stainless Steel	EA	1	0%	1	0.68	$ 110.00	$ 74.80	$ 115.95	$ 190.75	$ 190.75
316			SPB1: N40 Pull box, H/20 Traffic Rated	EA	2	0%	2	0.75	$ 110.00	$ 82.50	$ 181.92	$ 264.42	$ 528.84
317			SPB2: N52 Pull box, H/20 Traffic Rated	EA	1	0%	1	1.25	$ 110.00	$ 137.50	$ 255.45	$ 392.95	$ 392.95
318			SPB3: N52 Pull box, H/20 Traffic Rated	EA	1	0%	1	1.25	$ 110.00	$ 137.50	$ 255.45	$ 392.95	$ 392.95
319			SPB4: N48 Pull box, H/20 Traffic Rated	EA	1	0%	1	1.15	$ 110.00	$ 126.50	$ 224.70	$ 351.20	$ 351.20
320			SPB5: N48 Pull box, H/20 Traffic Rated	EA	1	0%	1	1.15	$ 110.00	$ 126.50	$ 224.70	$ 351.20	$ 351.20
321			PB1: Pull box, H/20 Traffic Rated	EA	1	0%	1	0.60	$ 110.00	$ 66.00	$ 83.24	$ 149.24	$ 149.24
			TRENCHING & BACKFILLING										
322			Excavation & Backfilling (2' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	24810	0%	24810	0.05	$ 110.00	$ 4.95	$ -	$ 4.95	$ 122,809.50
												SUBTOTAL	**$ 1,265,636**

PROJECTED COST		**$2,287,999**
OVERHEAD	**15%**	**$343,200**
PROFIT	**15%**	**$343,200**
SUB-CONTRACTOR MARGIN	**10%**	**$110,397**
INSURANCE	**3%**	**$68,640**
CONTINGENCY	**5%**	**$114,400**
TAX	**9%**	**$96,342**
SUGGESTED BID		**$3,364,178**

Notes:

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

MATERIAL LIST

Prepared for: Warehouse-Office Addition Sacramento County Office of ED. 10170 Missile Way, Mather, CA 95655
Project ID: 3182026
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	E1.0		Existing Distribution Panel To Be Removed With Associated Wiring And Conduit	EA	1
9			Existing Overhead Power Service/Lines To Be Removed	LF	54
10			Existing Disconnect Building And Remove Feeders Back To The Source	EA	3
11			Existing Pole Light To Be Removed With Associated Wiring And Conduit Back T	EA	13
12			Existing Power Pole To Be Removed With Associated Wiring And Conduit Back	EA	1
			ELECTRICAL		
			DISTRIBUTION		
			CONDUIT		
13			1" EMT Conduit	EA	20
14			1-1/2" EMT Conduit	EA	42
15			2" EMT Conduit	EA	20
16			3" EMT Conduit	EA	4
17			4" EMT Conduit	EA	8
			CONDUCTOR		
18			#10 CU THHN/THWN	ROLL	1
19			#8 CU THHN/THWN	ROLL	5
20			#6 CU THHN/THWN	ROLL	1
21			#4 CU THHN/THWN	ROLL	1
22			#3 CU THHN/THWN	ROLL	1
23			#2 CU THHN/THWN	ROLL	1
24			#1 CU THHN/THWN	ROLL	8
25			#1/0 CU THHN/THWN	ROLL	1
26			#2/0 CU THHN/THWN	ROLL	4
27			#4/0 CU THHN/THWN	ROLL	1
28			#250 MCM CU THHN/THWN	ROLL	1
29			#350 MCM CU THHN/THWN	ROLL	1
30			#500 MCM CU THHN/THWN	ROLL	1
31			#600 MCM CU THHN/THWN	ROLL	1
			LUGS		
32			Compression Lug CU With 1-Hole , #8 CU Wire	EA	16
33			Heat Shrink Tubing for #8 CU Wire	EA	16
34			Compression Lug CU With 1-Hole , #6 CU Wire	EA	2
35			Heat Shrink Tubing for #6 CU Wire	EA	2
36			Compression Lug CU With 1-Hole , #4 CU Wire	EA	8
37			Heat Shrink Tubing for #4 CU Wire	EA	8
38			Compression Lug CU With 1-Hole , #3 CU Wire	EA	2
39			Heat Shrink Tubing for #3 CU Wire	EA	2
40			Compression Lug CU With 1-Hole , #2 CU Wire	EA	4
41			Heat Shrink Tubing for #2 CU Wire	EA	4
42			Compression Lug CU With 1-Hole , #1 CU Wire	EA	38

MATERIAL LIST

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ELECTRICAL ESTIMATION
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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
43			Heat Shrink Tubing for #1 CU Wire	EA	38
44			Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	4
45			Heat Shrink Tubing for #1/0 CU Wire	EA	4
46			Compression Lug CU With 1-Hole , #2/0 CU Wire	EA	8
47			Heat Shrink Tubing for #2/0 CU Wire	EA	8
48			Compression Lug CU With 1-Hole , #4/0 CU Wire	EA	8
49			Heat Shrink Tubing for #4/0 CU Wire	EA	8
50			Compression Lug CU With 1-Hole , #250 MCM CU Wire	EA	16
51			Heat Shrink Tubing for #250 MCM CU Wire	EA	16
52			Compression Lug CU With 1-Hole , #350 MCM CU Wire	EA	24
53			Heat Shrink Tubing for #350 MCM CU Wire	EA	24
54			Compression Lug CU With 1-Hole , #500 MCM CU Wire	EA	8
55			Heat Shrink Tubing for #500 MCM CU Wire	EA	8
56			Compression Lug CU With 1-Hole , #600 MCM CU Wire	EA	16
57			Heat Shrink Tubing for #600 MCM CU Wire	EA	16
			CIRCUIT BREAKER		
58			1P/15A Breaker	EA	3
59			1P/20A Breaker	EA	147
60			1P/20A Breaker, GFCI	EA	9
61			1P/30A Breaker	EA	2
62			2P/15A Breaker	EA	6
63			2P/20A Breaker	EA	11
64			2P/30A Breaker	EA	1
65			2P/40A Breaker	EA	15
66			2P/50A Breaker	EA	2
67			2P/100A Breaker	EA	8
68			3P/15A Breaker	EA	1
69			3P/25A Breaker	EA	1
70			3P/40A Breaker	EA	1
71			3P/45A Breaker	EA	1
72			3P/100A Breaker	EA	8
73			3P/100A MCB	EA	5
74			3P/110A Breaker	EA	1
75			3P/125A Breaker	EA	1
76			3P/175A Breaker	EA	1
77			3P/175A MCB	EA	1
78			3P/225A Breaker	EA	1
79			3P/300A Breaker	EA	2
80			3P/300A MCB	EA	2
81			3P/350A Breaker	EA	1
82			3P/500A MCB	EA	1
83			3P/800A MCB	EA	1
84			3P/1200A GFP MCB	EA	1
			PANEL		
85			Panel DPL: 600A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 30 Poles, Surface	EA	1
86			Panel EV: 800A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 54 Poles, Surface	EA	1
87			Panel HH: 400A, 480/277V, 3Ph, 4W, Mains: MCB, 35KAIC, 30 Poles, Surface	EA	1
88			Panel HL: 125A, 480/277V, 3Ph, 4W, Mains: MCB, 35KAIC, 30 Poles, Surface	EA	1
89	**E2.1.1, E2.1.2, E2.2.1, E2.2.2, E2.3.1, E2.3.2, E2.4.1, E2.4.2, E2.5.1, E3.1, E3.2, E3.3 & E3.4**		Panel L1: 125A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 30 Poles, Surface	EA	1
90			Panel L2: 125A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 30 Poles, Surface	EA	1
91			Panel L3: 225A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 52 Poles, Surface	EA	1
92			Panel L4: 125A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 30 Poles, Surface	EA	1
93			Panel LH: 125A, 208/120V, 3Ph, 4W, Mains: MCB, 14KAIC, 42 Poles, Surface	EA	1
94			Panel PV: 400A, 480/277V, 3Ph, 4W, Mains: MCB, 35KAIC, 12 Poles, Surface	EA	1
95			Main Switchboard MS-N: 2000A, 480/277V, 3PH, 4W, Mains: MCB, NEMA-3R	EA	1
96			Concrete Base	EA	1
			DEVICES		
97			300A SMUD PV Meter With CT	EA	1
98			1200A Meter With CT	EA	1
99			TR-1: 150KVA Transformer 480-208/120V	EA	1
100			TR-2: 225KVA Transformer 480-208/120V	EA	1
			DISCONNECT SWITCH		
101			1P/20A Disconnect Switch	EA	30
102			2P/15A Disconnect Switch	EA	6
103			2P/20A Disconnect Switch	EA	2
104			3P/25A Disconnect Switch	EA	1

MATERIAL LIST

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
105			3P/30A Fusible Disconnect Switch, NEMA-1	EA	1
106			3P/300A Disconnect Switch (For PV, Rating Assumed)	EA	1
			GROUNDING		
107			3/4" x 10' CU Grounding Rod	EA	1
108			Ground Busbar	EA	1
109			Neutral Busbar	EA	1
110			#2/0 CU Grounding Conductor	LF	25
			POWER		
			CONDUIT		
111			1/2" EMT Conduit	EA	14
112			3/4" EMT Conduit	EA	942
113			3/4" PVC Conduit	EA	27
114			**CONDUCTOR**		200
115			#12 CU THHN/THWN	EA	97
116			#10 CU THHN/THWN	EA	45
117			#8 CU THHN/THWN	EA	6
			DEVICE		
118			Special Purpose Receptacle, 20A, 220V, W/ Buck/Boost Transformer, .5KVA Fed	EA	2
119			20A Duplex Receptacle	EA	15
120			2P/20 Special Receptacle	EA	1
121			Duplex Receptacle, 30A, 280V	EA	1
122			Duplex Receptacle, 40A W/ Buck-Boost Transformer 1 KVA	EA	1
123			P: Ceiling Fan Touch Screen Controller	EA	1
124			Duplex Receptacle	EA	11
125			Duplex Receptacle, Floor Mounted Wiremold 800CILCK W/ Cover	EA	2
126			Duplex Receptacle, GFCI, NEMA 5-20R	EA	9
127			Duplex Receptacle, GFCI, NEMA 5-20R, Metal WP Enclosure W/ Cover	EA	6
128			Duplex Receptacle, NEMA 5-20R	EA	97
129			Power Pole, Wiremold Series 30TP-4	EA	2
130			Quad Receptacle	EA	1
131			Special Purpose Receptacle, 20A, 220V, W/ Buck/Boost Transformer, .5KVA Fed	EA	3
132			Power Pole, 3/8" hilti kb-tz Anchor And Large Flat Washer W/ 2" Embedment, Ins	EA	17
			LIGHTING		
			CONDUIT		
133			3/4" EMT Conduit	EA	453
			CONDUCTOR		
134			#12 CU THHN/THWN	ROLL	27
135			#10 CU THHN/THWN	ROLL	33
136			#8 CU THHN/THWN	ROLL	7
			LIGHTING FIXTURES		
137			AK: LED, 20 WATTS, 4000K, 80 CRI EXTERIOR UTILITY YARD, WILLIAM	EA	4
138			A: LED, 132W/8FT,3500K°, 80CRI HIGH BAY-AISLE, LITHONIA MLX-L8	EA	47
139			A,EM: LED, 132W/8FT,3500K°, 80CRI HIGH BAY-AISLE, LITHONIA MLX	EA	32
140			A1: HIGH BAY - AISLE, LITHONIA MLX-L8-20000L-80CRI-35K-WGDL-M	EA	3
141			A1,EM: HIGH BAY - AISLE, LITHONIA MLX-L8-20000L-80CRI-35K-WGD	EA	7
142			AA: EXTERIOR WALL MOUNTED, WILLIAMS WPTZ-L41/740-T3-OCC-S2-	EA	12
143			AA,EM: EXTERIOR WALL MOUNTED, WILLIAMS WPTZ-L41/740-T3-OCC	EA	5
144			AB: LED, 32 WATTS, 4000K, 80 CRI, EXTERIOR UNDER CANOPY, BHDL6-	EA	5
145			AB,EM: LED, 32 WATTS, 4000K, 80 CRI, EXTERIOR UNDER CANOPY, BHI	EA	2
146			B: LED, 37W, 3500K,90CRI, LAY IN OFFICE WHSPR-2X4-90CRI-35K-48	EA	83
147			B,EM: LED, 37W, 3500K,90CRI, LAY IN OFFICE WHSPR-2X4-90CRI-35K	EA	26
148			C: LED, 26.7W, 3500K, 80CRI, SURFACE 1X4, LITHONIA STL4-30L-SLD-LI	EA	12
149			C,EM: LED, 26.7W, 3500K, 80CRI, SURFACE 1X4, LITHONIA STL4-30L-SL	EA	5
150			D: LED, 16W, 3500K,90CRI, WALL SCONCE, VISA LIGHTING CB3107-L35	EA	3
151			E: LED, 15.3W/FT 3500K, 90CRI, PENDANT, MARK S2PID-LCB-90CRI-	EA	6
152			E,EM: LED, 15.3W/FT 3500K, 90CRI, PENDANT, MARK S2PID-LCB-90C	EA	9
153			X: EXIT LIGHT - OFFICE, AA-DXN-1-G EMERGI-LITE	EA	12
154			X1: EXIT LIGHT -WAREHOUSE, GA-SVX24N-1-G-D-2-LJ EMERGI-LITE	EA	5
			LIGHTING CONTROL		
155			4-Way Dimmer Switch	EA	11
156			Day Light Sensor, Ceiling Mounted	EA	16
157			Lighting Control Panel	EA	1
158			Occupancy Sensor, Ceiling Mounted	EA	27
159			Single Pole Dimmer Switch	EA	13
160			Single Pole Occupancy Sensor Switch With Manual Override	EA	8
161			Single Pole Switch	EA	6
162			Three Way Dimmer Switch	EA	13
163			Time Clock	EA	1
			MISCELLANEOUS		
164			Junction Box	EA	43

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
165			Junction Box Floor Mounted W/ Wiremold Series 880 With Two Compartment	EA	3
			SAW CUT		
166			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	183
			COMMUNICATION		
			TELECOMMUNICATION		
			CONDUIT		
167			3/4" EMT Conduit	EA	252
168			1" EMT Conduit	EA	93
169			**CONDUCTOR**		200
170			CAT6A Cable	ROLL	51
171			Coaxial Cable	ROLL	1
			DEVICES		
172			Data Outlet	EA	3
			RJ-45 Connector	EA	3
			Back Box	EA	3
			Faceplate	EA	3
173			2-Port Data Outlet	EA	26
			RJ-45 Connector	EA	52
			Back Box	EA	26
			Faceplate	EA	26
174			2-Port Data Outlet, Floor Mounted	EA	2
			RJ-45 Connector	EA	4
			Back Box	EA	2
			Faceplate	EA	2
175			3-Port Data Outlet	EA	1
			RJ-45 Connector	EA	3
			Back Box	EA	1
			Faceplate	EA	1
176			Tele Outlet	EA	1
			RJ-45 Connector	EA	1
			Back Box	EA	1
			Faceplate	EA	1
177			TV Outlet	EA	2
			F-Connector	EA	2
			Back Box	EA	2
			Faceplate	EA	2
178			Base Station With Battery Backup Minimum 4 Hours, #2500-205D	EA	1
179			Call Box, #2100-958NSR	EA	1
180	E2.3.1, E2.3.2		IDF	EA	1
181		O.F.C.I	Wireless Access Point, Ceiling Mounted	EA	9
182			Wireless Access Point, Wall Mounted	EA	4
			SECURITY		
			CONDUIT		
183			3/4" EMT Conduit With Pull string	EA	58
184			3/4" EMT Conduit	EA	231
185			1-1/2" EMT Conduit With Pull string	EA	39
			CONDUCTOR		
186			CAT6A Cable	ROLL	6
187			#18 CU THHN/THWN	ROLL	11
			DEVICES		
188		Security Door Or Window Contact	Back Box, For Future	EA	7
189		Security System Motion Sensor	Back Box, For Future	EA	4
190			Card Reader	EA	18
191			CCTV Camera	EA	5
192		O.F.C.I	CCTV Camera, Wall Mounted	EA	6
193			Keypad Back For Future	EA	4
			AUDIO/VISUAL SYSTEM		
			CONDUIT		
194			3/4" EMT Conduit	EA	172
			CONDUCTOR		
195			CAT6A Cable	EA	9
			DEVICES		
196			Exterior Speaker, Wall Mounted	EA	3
197		O.F.C.I	Interior Horn Speaker, Wall Mounted	EA	6
198			Interior Speaker, Wall Mounted	EA	8
			MISCELLANEOUS		

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199		Data Connection For Modular	Junction Box	EA	15
			ELECTRONUC SAFETY AND SECURITY		
			FIRE ALARM		
			CONDUIT		
200			3/4" EMT Conduit	EA	453
201			1" EMT Conduit	EA	9
202			2" EMT Conduit	EA	21
			CONDUCTOR		
203			2#12, Shielded Cable	ROLL	7
204			2#12, Shielded Cable-WEST PENN 999	ROLL	1
205			2#12, WEST PENN 998 Cable	ROLL	7
206			2#12, WEST PENN 999 Cable	ROLL	1
207			2#16, WEST PENN Cable	ROLL	9
208			2#16, WEST PENN 990 Cable	ROLL	1
209			4#12, WEST PENN 60164B Cable	ROLL	1
210			4#12,WEST PENN 60164B Cable	ROLL	1
			DEVICES		
211			Fire Alarm 200 Deg Heat Detector, Ceiling Mounted, SILENT KNIGHT SK-HE	EA	2
212			Fire Alarm Amplifier, SILENT KNIGHT EVS-50W	EA	1
213			Fire Alarm Audible, WP, SYSTEM SENSOR SPRK-R With MWBB METAL BA	EA	4
214			Fire Alarm Audio/Visual Strobe, 15CD, SYSTEM SENSOR SPSCWL-P	EA	4
215			Fire Alarm Audio/Visual Strobe, 30CD, SYSTEM SENSOR SPSCWL-P	EA	4
216	E2.4.1, E2.4.2		Fire Alarm Audio/Visual Strobe, 75CD, SYSTEM SENSOR SPSCWL-P	EA	3
217			Fire Alarm Audio/Visual Strobe, 75CD, SYSTEM SENSOR SPSRL-P, Wall Mou	EA	1
218			Fire Alarm Audio/Visual Strobe, 177CD, SYSTEM SENSOR SPSCWL-P	EA	2
219			Fire Alarm Audio/Visual Strobe, Wall Mounted	EA	2
220			Fire Alarm Beam Detector With Reflector, SILENT KNIGHT SK-BEAM	EA	5
221			Fire Alarm Control Panel, SILENT KNIGHT 6820EVS	EA	1
222			Fire Alarm Duct Smoke Detector, SILENT KNIGHT SK-DUCT	EA	2
223			Fire Alarm Manual Pull station, SILENT KNIGHT SK-PULL-SA	EA	1
224			Fire Alarm Monitor Module, SILENT KNIGHT SK-MONITOR	EA	3
225			Fire Alarm Photoelectric Smoke Detector, SILENT KNIGHT SK-PHOTO-W, Cei	EA	41
226			Fire Alarm Photoelectric Smoke Detector, SILENT KNIGHT SK-PHOTO-W, Wa	EA	5
227			Fire Alarm Relay Module, SILENT KNIGHT SK-RELAY	EA	7
228			Fire Alarm Remote Annunciator Panel	EA	1
229			Fire Alarm Signal Terminal Backboard	EA	1
230			Fire Alarm Visual Strobe, 15CD, SYSTEM SENSOR SCRL, Ceiling Mounted	EA	7
231			Fire Alarm Visual Strobe, 15CD, SYSTEM SENSOR SRL-P, Wall Mounted	EA	4
232			Fire Alarm Visual Strobe, 30CD, SYSTEM SENSOR SCRL, Ceiling Mounted	EA	2
233			Fire Alarm Visual Strobe, 75CD, SYSTEM SENSOR SRL-P, Wall Mounted	EA	2
234			Fire Alarm Visual Strobe, 177CD, SYSTEM SENSOR SCRL, Ceiling Mounted	EA	2
			UTILITIES		
			DISTRIBUTION		
			CONDUIT		
235			1-1/2" PVC SCH 40 Conduit	EA	195
236			1-1/2" PVC SCH 40 Conduit With Pull String	EA	581
237			2" PVC SCH 40 Conduit With Pull String	EA	793
238			3" PVC SCH 40 Conduit With Pull String	EA	57
239			4" PVC SCH 40 Conduit	EA	17
240			5" PVC SCH 40 Conduit With Pull String	EA	4
			CONDUCTOR		
241			#8 CU THHN/THWN	ROLL	10
242			#1 CU THHN/THWN	ROLL	27
243			#600 MCM CU THHN/THWN	ROLL	3
			LUGS		
244			Compression Lug CU With 1-Hole , #8 CU Wire	EA	28
245			Heat Shrink Tubing for #8 CU Wire	EA	28
246			Compression Lug CU With 1-Hole , #1 CU Wire	EA	92
247			Heat Shrink Tubing for #1 CU Wire	EA	92
248			Compression Lug CU With 1-Hole , #600 MCM CU Wire	EA	24
249			Heat Shrink Tubing for #600 MCM CU Wire	EA	24

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			DEVICES		
250			SMUD Pad Mounted Transformer	EA	1
251			120" X 150" X 6" SMUD Transformer Pad, Made By JENSEN PRECAST or App	EA	1
252			EV Level 2 Charging Station (Dual Ports) BLINK SERIES 8 ISO, 16.64KW At 20	EA	2
253			EV Level 2 Charging Station (Single Port) BLINK SERIES 8 ISO, 16.64KW At 2	EA	1
			PHOTOVOLTAIC SYSTEM		
254			PV AC Combiner Panel 'PV', NEMA-3R	EA	1
255			PV Panel, CANADIANSOLAR HiKu6 Mono PERC 555W	EA	290
256			PV Inverter #1 NEMA-3R, CANADIANSOLAR CSI-66K-T480GL01-UB	EA	1
257			PV Inverter #2 NEMA-3R, CANADIANSOLAR CSI-66K-T480GL01-UB	EA	1
258			PV Inverter #3 NEMA-3R, CANADIANSOLAR CSI-66K-T480GL01-UB	EA	1
259		**Rating Assumed**	3P/125A AC Disconnect Switch	EA	3
			POWER		
			CONDUIT		
260			3/4" EMT Conduit	EA	32
261			1" EMT Conduit	EA	2
262			3/4" PVC SCH 40 Conduit	EA	52
263			1" PVC SCH 40 Conduit	EA	62
			CONDUCTOR		
264			#12 CU THHN/THWN	EA	2
265			#10 CU THHN/THWN	EA	17
266			#8 CU THHN/THWN	EA	2
267			#4 CU THHN/THWN	EA	7
			DEVICE		
268			50A/125/250V Twist Lock Receptacle In Lockable WP Metal Box	EA	2
269			Gate Operator Connection	EA	7
			SITE LIGHTING		
			CONDUIT		
270			3/4" EMT Conduit	EA	22
271			1" PVC SCH 40 Conduit	EA	436
272			1-1/2" PVC SCH 40 Conduit	EA	81
			CONDUCTOR		
273			#10 CU THHN/THWN	ROLL	37
274			#8 CU THHN/THWN	ROLL	11
275			#6 CU THHN/THWN	ROLL	49
			LIGHTING FIXTURES		
276			AC: POLE MOUNTED (1) LED LIGHT FIXTURE, GARDCO P26-A01-840-T3N	EA	10
277			AD: POLE MOUNTED (2) LED LIGHT FIXTURE, GARDCO P26-A01-840-T3N	EA	9
278			AE: POLE MOUNTED (2) LED LIGHT FIXTURE, GARDCO P26-A01-840-T3N	EA	3
279	**E0.2, E1.1, E1.1A, E1.2, E1.3, E1.4, E1.5 & E1.6**		AF: POLE MOUNTED (3) LED LIGHT FIXTURE, GARDCO P26-A01-840-T3N	EA	4
280			AG: POLE MOUNTED (4) LED LIGHT FIXTURE, GARDCO P26-A01-840-T3N	EA	4
281			AH: EXTERIOR WALL WASH, ELLIPTIPAR S151-H-6-HGC-M-940Watts: 78V	EA	2
282			AJ: EXTERIOR UNDER SHADE STRUCTURE, KENALL MLHA5-24-R-PP-25	EA	27
283			Street Light Type A	EA	4
284			24' Square Steel Light Pole	EA	30
285			Concrete Pole Base	EA	30
			LIGHTING CONTROLS		
286			Astronomical Time Clock	EA	1
287			LTC: Lighting Controller	EA	1
288			Photocell	EA	1
			TELECOMMUNICATION		
			CONDUIT		
289			2" PVC SCH 40 Conduit	EA	132
290			2" PVC SCH 40 Conduit With Pull String	EA	593
291			3" PVC SCH 40 Conduit	EA	149
292			3" PVC SCH 40 Conduit With Pull String	EA	211
293			4" PVC SCH 40 Conduit	EA	220
294			4" PVC SCH 40 Conduit With Pull String	EA	59
			CONDUCTOR		
295			Fiber Optic Cable	ROLL	2
296			Combined Fiber Optic/Poe Cable, LEVITON One Reach Assembly, (2) Fibers	ROLL	82
			SECURITY		
			CONDUIT		
297			2" EMT Conduit	EA	31
298			2" PVC SCH 40 Conduit	EA	162
299			2" RGS Conduit	EA	42

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			CONDUCTOR		
300			Combined Fiber Optic/Poe Cable, LEVITON One Reach Assembly, (2) Fibers	ROLL	12
			DEVICES		
301		**Owner Furnished & Contractor Install**	CCTV Camera, Building Wall Mounted	EA	3
302			CCTV Camera, Light Pole Mounted	EA	17
303			Future Camera Under PV Shade	EA	6
			FIRE ALARM		
			CONDUIT		
304			3/4" PVC SCH 40 Conduit With Pull String	EA	15
			DEVICES		
305			Monitoring Backflow Double Check Detector	EA	3
			MISCELLANEOUS		
306			N16 Pull Box	EA	30
307			N30 Pull Box With Concrete Lid/Hold Down Bolts	EA	1
308			N36 Pull Box With Concrete Lid/Hold Down Bolts	EA	1
309			Pad Mounted Enclosure For Access Control Equipment	EA	14
310			Photoeye	EA	8
311			Traffic Rated H/20 Christy B3048 Pull Box With Steel Lid	EA	1
312			EV Capable Parking Stall	EA	9
313			Junction Box (For Motorized Gate)	EA	7
314			N9 Pull box, H/20 Traffic Rated	EA	13
315			N36 Pull box, H/20 Traffic Rated	EA	3
316			N40 Pull box, H/20 Traffic Rated	EA	5
317			N48 Pull box, H/20 Traffic Rated	EA	1
318			Pull box With (2) Extensions, CHRISTY N30	EA	6
319			SP1: Street Pedestal, 14 Gauge #304D Stainless Steel	EA	1
320			SP2: Street Pedestal, 14 Gauge #304D Stainless Steel	EA	1
321			SPB1: N40 Pull box, H/20 Traffic Rated	EA	2
322			SPB2: N52 Pull box, H/20 Traffic Rated	EA	1
323			SPB3: N52 Pull box, H/20 Traffic Rated	EA	1
324			SPB4: N48 Pull box, H/20 Traffic Rated	EA	1
325			SPB5: N48 Pull box, H/20 Traffic Rated	EA	1
326			PB1: Pull box, H/20 Traffic Rated	EA	1
			TRENCHING & BACKFILLING		
327			Excavation & Backfilling (2' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	24810