PROPOSAL SUMMARY
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

Project:	KEYES FIRE STATION 40
Address:	5629 7TH STREET, KEYES, CA 95328
Scope:	ROOFING & ELECTRICAL
Gross Area: (SF)	16720
Date:	11/3/2026

DIVISION	DESCRIPTION	MATERIAL COST	LABOR COST	MATERIAL TAX	LABOR TAX	EQUIPMENT COST	TOTAL COST	OVERHEADS	PROFIT	ADDITIONAL COST (If any)	TOTAL	COST/SF
DIV-01	GENERAL REQUIREMENTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DIV-07	THERMAL AND MOISTURE PROTECTION	$ 69,084.24	$ 96,430.47	$ 5,440.38	$ 4,734.74	$ -	$ 175,689.83	$ 17,568.98	$ 17,568.98	$ (16,960.58)	$ 193,867.21	$ 11.59
DIV-26	ELECTRICAL	#########	#########	$ 9,837.98	$ 12,780.80	$ -	$ 407,846.90	$ 40,784.69	$ 40,784.69	$ -	$ 489,416.28	$ 29.27
	TOTAL	$ 194,011	$ 356,732	$ 15,278	$ 17,516		$ 583,537	$ 58,354	$ 58,354	$ (16,961)	$ 683,283	$ 41

BID SUMMARY			
1	**TOTAL MATERIAL COST**		**$ 194,011**
	MATERIAL SALES TAX	8%	$ 15,278
	JOB EXPENSE		
2	**TOTAL LABOR COST**		**$ 356,732**
	LABOR TAX	5%	$ 17,516
3	**TOTAL COST**		**$ 583,537**
	OVERHEADS @	10%	$ 58,354
	PROFIT @	10%	$ 58,354
4	**TOTAL COST W/ OVERHEADS + PROFIT**		**$ 700,244**
	BOND & INSURANCE	0%	$ -
	PROJECT SUPERVISION & PROJECT MANAGEMENT		$ -
	SUBMITTALS, SAMPLES, SHOP DRAWINGS, SITE SAFETY PLAN, ETC.		$ 1,213
	TEMPORARY FACILITIES & CONTROLS		$ -
	PROJECT SCHEDULE (Primavera P3 or P6)		$ -
	OFFICE OVERHEADS		$ -
	CLOSEOUT PROCEDURES		$ 1,213
	PERMITS		$ -
	ALLOWANCES		$ 1,503
	MOBILIZATION / DEMOBILIZATION		$ 1,820
	SUB-CONTRACTS		$ -
	BOND PREMIUM	0%	$ -
5	**BASE BID PRICE**		**$ 705,993**

MAN-LOADING AND SUPERVISION ANALYSIS				
1	TOTAL MANHOURS WITH SUPERVISION			4,271
2	NUMBER OF MAN-DAYS			533.84
3	MAN LOAD			5
4	JOURNEYMAN RATE	3		$ 71.84
5	SUPERVISOR RATE	1		$ 71.84
6	UNSKILLED LABOR RATE	1		$ 71.96
7	COMPOSITE LABOR RATE			$ 71.86
8	WAGE RATE			$ -

INSERT VALUES IN RESPECTIVE HIGHLIGHTED CELLS WHERE APPLICABLE

#VALUE!

DETAILED TAKEOFF / ESTIMATE
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

#VALUE!

Project Name	KEYES FIRE STATION 40	PROJECT COST	$ 583,537
Location	5629 7TH STREET, KEYES, CA 95328	OVERHEAD COST	$ 58,354
Project Scope:	ROOFING & ELECTRICAL	PROFIT COST	$ 58,354
Addendum:	N/A	ADDITIONAL COST (If Any)	$ 5,749
Date:	Tuesday, November 3, 2026	TOTAL BID COST	$ 705,993
	BY OTHERS/ SEPERATE PERMIT/ BY OWNER	NEED QUOTATION	

SR #	DRAWING REF #	SCOPE ITEM	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY WITH WASTAGE	UNIT LABOR HOURS	TOTAL LABOR HOURS	UNIT MATERIAL COST	TOTAL MATERIAL COST	UNIT EQUIPMENT COST	TOTAL EQUIPMENT COST	UNIT LABOR COST	TOTAL LABOR COST	TOTAL COST	DIV COST
GENERAL REQUIREMENTS SUBGROUP WORK																	
		DIV-01	**GENERAL REQUIREMENTS**										Labor Rate	$ 71.96			
1			General Conditions	Permit (.07% of project value)	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -
2			General Conditions	Site development	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -
3			General Conditions	Variance	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -
4			General Conditions	Private inspections	0	fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -
5			General Conditions	Debris haul off	0	load	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -
6			General Conditions	Site plan	0	Fee	0%	0.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -
								LABOR HOURS	0.000	MATERIAL COST	$ -	EQUIPMENT COST	$ -	LABOR COST	$ -	SUBTOTAL	$ -
FACILITY CONSTRUCTION SUBGROUP WORK																	
		DIV-07	**THERMAL AND MOISTURE PROTECTION**										Labor Rate	$ 71.96			
				ROOFING													
				Class 'A' Cold-Applied 2-Ply Modified Kee Roofing System													
				Roof Covering													
7		Thermal And Moisture Protection		Class 'A' Cold-Applied 2-Ply Modified Kee Roofing System	7516	SF	10%	8267.60	0.015	124.0	$ 2.51	$ 20,751.68	$ -	$ -	$ 1.25	$ 10,358.89	$ 31,110.57
8		Thermal And Moisture Protection		1/2" Rigid Insulation Cover Board	7516	SF	10%	8267.60	0.006	49.6	$ 1.41	$ 11,657.32	$ -	$ -	$ 0.50	$ 4,143.56	$ 15,800.87
9		Thermal And Moisture Protection		Vapor Retarder	7516	SF	10%	8267.60	0.004	33.1		$ -	$ -	$ -	$ 0.33	$ 2,762.37	$ 2,762.37
10		Thermal And Moisture Protection		Roof Cricket	561	SF	10%	617.10	0.015	9.3	$ 1.23	$ 759.03	$ -	$ -	$ 1.25	$ 773.20	$ 1,532.23
				Roof Accessories													
11		Thermal And Moisture Protection		Metal Coping	373	LF	10%	410.30	0.100	41.0		$ -	$ -	$ -	$ 8.35	$ 3,427.24	$ 3,427.24
12		Thermal And Moisture Protection		I-Mold Stucco Stop	373	LF	10%	410.30	0.040	16.4		$ -	$ -	$ -	$ 3.34	$ 1,370.89	$ 1,370.89
13		Thermal And Moisture Protection		Drip Screed	39	LF	10%	42.90	0.040	1.7		$ -	$ -	$ -	$ 3.34	$ 143.34	$ 143.34
14		Thermal And Moisture Protection		J Channel And Rivet	39	LF	10%	42.90	0.040	1.7		$ -	$ -	$ -	$ 3.34	$ 143.34	$ 143.34
15		Thermal And Moisture Protection		Continuous Sealant	809	LF	10%	889.90	0.020	17.8	$ 1.18	$ 1,050.08	$ -	$ -	$ 1.67	$ 1,486.67	$ 2,536.75
16		Thermal And Moisture Protection		26 GA. G.S.M. Flashing	14	LF	10%	15.40	0.050	0.8	$ 2.61	$ 40.19	$ -	$ -	$ 4.18	$ 64.32	$ 104.51
17		Thermal And Moisture Protection		Corner Flashing	63	LF	10%	69.30	0.060	4.2	$ 3.85	$ 266.81	$ -	$ -	$ 5.01	$ 347.32	$ 614.12
18		Thermal And Moisture Protection		Backer Rod	63	LF	10%	69.30	0.010	0.7		$ -	$ -	$ -	$ 0.84	$ 57.89	$ 57.89
19		Thermal And Moisture Protection		Metal Flashing	501	LF	10%	551.10	0.060	33.1	$ 3.85	$ 2,121.74	$ -	$ -	$ 5.01	$ 2,762.00	$ 4,883.74
20		Thermal And Moisture Protection		24 GA. Pre Finished G.S.M. Parapet Cap	501	LF	10%	551.10	0.100	55.1		$ -	$ -	$ -	$ 8.35	$ 4,603.34	$ 4,603.34
21		Thermal And Moisture Protection		Cant Strip	501	LF	10%	551.10	0.015	8.3	$ 0.65	$ 358.22	$ -	$ -	$ 1.25	$ 690.50	$ 1,048.72
22		Thermal And Moisture Protection		Roof Curb	120	LF	10%	132.00	0.150	19.8		$ -	$ -	$ -	$ 12.53	$ 1,653.89	$ 1,653.89
23		Thermal And Moisture Protection		Counter Flashing	120	LF	10%	132.00	0.060	7.9	$ 3.85	$ 508.20	$ -	$ -	$ 5.01	$ 661.56	$ 1,169.76
24		Thermal And Moisture Protection		Overflow Drain MFR: ZURN #Z125 With P125-Ip90	5	EA	10%	5.50	2.000	11.0	$ 212.40	$ 1,168.20	$ -	$ -	$ 167.06	$ 918.83	$ 2,087.03
25		Thermal And Moisture Protection		Roof Drain MFR: ZURN #Z125	5	EA	10%	5.50	2.000	11.0	$ 212.40	$ 1,168.20	$ -	$ -	$ 167.06	$ 918.83	$ 2,087.03
26		Thermal And Moisture Protection		(2'-6" X 2'-6") Walk pad	2	EA	10%	2.20	0.200	0.4		$ -	$ -	$ -	$ 16.71	$ 36.75	$ 36.75
27		Thermal And Moisture Protection		(5'-0" X 2'-6") Walk pad	28	EA	10%	30.80	0.200	6.2		$ -	$ -	$ -	$ 16.71	$ 514.54	$ 514.54
28		Thermal And Moisture Protection		(2'-6" X 3'-0") Roof Hatch	1	EA	10%	1.10	8.000	8.8	$ 3,416.49	$ 3,758.14	$ -	$ -	$ 668.24	$ 735.06	$ 4,493.20
29		Thermal And Moisture Protection		(24'-0" H) Roof Ladder	1	EA	10%	1.10	6.000	6.6		$ -	$ -	$ -	$ 501.18	$ 551.30	$ 551.30
				Class 'A' Exposed Fastener 7.2 Metal Panel Roofing System													
				Roof Covering													
30		Thermal And Moisture Protection		7.2 Metal Panel Roof	2052	SF	10%	2257.20	0.030	67.7		$ -	$ -	$ -	$ 2.51	$ 5,656.32	$ 5,656.32
				Roof Accessories													
31		Thermal And Moisture Protection		24 GA. Downspout	36	LF	10%	39.60	0.060	2.4		$ -	$ -	$ -	$ 5.01	$ 198.47	$ 198.47
32		Thermal And Moisture Protection		24 GA. Gutter	58	LF	10%	63.80	0.080	5.1	$ 6.90	$ 440.22	$ -	$ -	$ 6.68	$ 426.34	$ 866.56
33		Thermal And Moisture Protection		Drip Edge	58	LF	10%	63.80	0.025	1.6	$ 2.40	$ 153.12	$ -	$ -	$ 2.09	$ 133.23	$ 286.35
				Class 'A' Standing Seam Metal Panel Roof													
				Roof Covering													
34		Thermal And Moisture Protection		Standing Seam Metal Panel Roof	8508	SF	10%	9358.80	0.040	374.4		$ -	$ -	$ -	$ 3.34	$ 31,269.62	$ 31,269.62
35		Thermal And Moisture Protection		2" Rigid Insulation	8427	SF	10%	9269.70	0.005	46.3	$ 0.98	$ 9,084.31	$ -	$ -	$ 0.42	$ 3,871.49	$ 12,955.80
36		Thermal And Moisture Protection		Metal Roofing High Temperature Underlayment	8508	SF	10%	9358.80	0.004	37.4	$ 1.28	$ 11,979.26	$ -	$ -	$ 0.33	$ 3,126.98	$ 15,106.23
37		Thermal And Moisture Protection		Metal Flush Panel Soffit	2143	SF	10%	2357.30	0.040	94.3		$ -	$ -	$ -	$ 3.34	$ 7,876.21	$ 7,876.21
				Roof Accessories													
38		Thermal And Moisture Protection		24 GA. Gutter	99	LF	10%	108.90	0.080	8.7	$ 6.90	$ 751.41	$ -	$ -	$ 6.68	$ 727.71	$ 1,479.12
39		Thermal And Moisture Protection		24 GA. Downspout	32	LF	10%	35.20	0.060	2.1		$ -	$ -	$ -	$ 5.01	$ 176.42	$ 176.42
40		Thermal And Moisture Protection		Corner Trim	98	LF	10%	107.80	0.060	6.5	$ 3.85	$ 415.03	$ -	$ -	$ 5.01	$ 540.27	$ 955.30
41		Thermal And Moisture Protection		Drip Edge	99	LF	10%	108.90	0.025	2.7	$ 2.40	$ 261.36	$ -	$ -	$ 2.09	$ 227.41	$ 488.77
42		Thermal And Moisture Protection		Counter Flashing	368	LF	10%	404.80	0.060	24.3	$ 3.85	$ 1,558.48	$ -	$ -	$ 5.01	$ 2,028.78	$ 3,587.26
				Class 'A' Composition Shingles Roof													
				Roof Covering													
43		Thermal And Moisture Protection		Shingle Roof	104	SF	10%	114.40	0.025	2.9	$ 1.20	$ 137.28	$ -	$ -	$ 2.09	$ 238.90	$ 376.18
44		Thermal And Moisture Protection		Roofing Felt	104	SF	10%	114.40	0.003	0.3	$ 0.22	$ 25.17	$ -	$ -	$ 0.25	$ 28.67	$ 53.84
45		Thermal And Moisture Protection		Leak Barrier	117	SF	10%	128.70	0.004	0.5	$ 0.86	$ 110.68	$ -	$ -	$ 0.33	$ 43.00	$ 153.68
				Roof Accessories													
46		Thermal And Moisture Protection		Continuous Sealant	40	LF	10%	44.00	0.020	0.9	$ 1.18	$ 51.92	$ -	$ -	$ 1.67	$ 73.51	$ 125.43
47		Thermal And Moisture Protection		24 GA G.S.M. Flashing	40	LF	10%	44.00	0.060	2.6	$ 3.85	$ 169.40	$ -	$ -	$ 5.01	$ 220.52	$ 389.92
48		Thermal And Moisture Protection		Counter Flashing	40	LF	10%	44.00	0.060	2.6	$ 3.85	$ 169.40	$ -	$ -	$ 5.01	$ 220.52	$ 389.92
49		Thermal And Moisture Protection		Reglet Flashing	40	LF	10%	44.00	0.060	2.6	$ 3.85	$ 169.40	$ -	$ -	$ 5.01	$ 220.52	$ 389.92
								LABOR HOURS	1154.441	MATERIAL COST	$ 69,084.24	EQUIPMENT COST	$ -	LABOR COST	$ 96,430.47	SUBTOTAL	$ 165,514.71
		DIV-26	**ELECTRICAL**										Labor Rate	$ 83.53			
				DISTRIBUTION													
				Feeder Conductors													
50			Electrical	#8 AWG CU THHN/THWN	67	LF	10%	73.70	0.009	0.7	$ 0.81	$ 59.70	$ -	$ -	$ 0.75	$ 55.41	$ 115.10
51			Electrical	#3 AWG CU THHN/THWN	490	LF	10%	539.00	0.014	7.5	$ 2.56	$ 1,379.84	$ -	$ -	$ 1.17	$ 630.32	$ 2,010.16
52			Electrical	#2 AWG CU THHN/THWN	260	LF	10%	286.00	0.016	4.6	$ 3.20	$ 915.20	$ -	$ -	$ 1.34	$ 382.23	$ 1,297.43
53			Electrical	#1/0 CU THHN SSBJ	432	LF	10%	475.55	0.020	9.5	$ 4.91	$ 2,334.96	$ -	$ -	$ 1.67	$ 794.46	$ 3,129.42
54			Electrical	#300 KCMIL CU XHHN/XHWN	1035	LF	10%	1138.72	0.033	37.6	$ 12.79	$ 14,564.23	$ -	$ -	$ 2.76	$ 3,138.87	$ 17,703.10
55			Electrical	#500 KCMIL AL XHHN/XHWN	1729	LF	10%	1902.21	0.045	85.6	$ 2.98	$ 5,668.58	$ -	$ -	$ 3.76	$ 7,150.11	$ 12,818.69
56			Electrical	#600 KCMIL CU XHHN/XHWN	1040	LF	10%	1144.00	0.052	59.5	$ 26.99	$ 30,876.56	$ -	$ -	$ 4.34	$ 4,969.03	$ 35,845.59
				Feeder Conduits													
57			Electrical	1" EMT Conduit	21	LF	10%	22.55	0.055	1.2	$ 1.99	$ 44.87	$ -	$ -	$ 4.59	$ 103.60	$ 148.47
58			Electrical	1-1/2" EMT Conduit	47	LF	10%	51.94	0.080	4.2	$ 4.03	$ 209.33	$ -	$ -	$ 6.68	$ 347.10	$ 556.42
59			Electrical	2-1/2" EMT Conduit	259	LF	10%	284.68	0.130	37.0	$ 7.93	$ 2,257.51	$ -	$ -	$ 10.86	$ 3,091.31	$ 5,348.82
60			Electrical	4" EMT Conduit	260	LF	10%	286.00	0.220	62.9	$ 13.42	$ 3,838.12	$ -	$ -	$ 18.38	$ 5,255.71	$ 9,093.83
61			Electrical	4" LFMC Conduit	3	LF	10%	3.30	0.180	0.6		$ -	$ -	$ -	$ 15.04	$ 49.62	$ 49.62
62			Electrical	4" PVC SCH 40 Conduit	420	LF	10%	462.35	0.100	46.2	$ 4.04	$ 1,867.90	$ -	$ -	$ 8.35	$ 3,862.03	$ 5,729.93
63			Electrical	4" RGS Conduit	12	LF	10%	13.20	0.220	2.9		$ -	$ -	$ -	$ 18.38	$ 242.57	$ 242.57
				Terminations													
64			Electrical	Compression Lugs CU With 1- Hole, #8CU Wire Heat Shrink Tubing For #8 CU Wire	6	EA	0%	6.00	0.150	0.9	$ 5.39	$ 32.34	$ -	$ -	$ 12.53	$ 75.18	$ 107.52
65			Electrical	Compression Lugs CU With 1- Hole, #3 CU Wire Heat Shrink Tubing For #3 CU Wire	26	EA	0%	26.00	0.300	7.8		$ -	$ -	$ -	$ 25.06	$ 651.53	$ 651.53
66			Electrical	Compression Lugs CU With 1- Hole, #2 CU Wire Heat Shrink Tubing For #2 CU Wire	2	EA	0%	2.00	0.300	0.6	$ 5.20	$ 10.40	$ -	$ -	$ 25.06	$ 50.12	$ 60.52
67			Electrical	Compression Lugs CU With 1- Hole, #1/0 CU SSBJ Wire Heat Shrink Tubing For #1/0 CU SSBJ Wire	8	EA	0%	8.00	0.450	3.6	$ 12.84	$ 102.72	$ -	$ -	$ 37.59	$ 300.71	$ 403.43
68			Electrical	Compression Lugs CU With 1- Hole, #300 KCMIL CU Wire Heat Shrink Tubing For #300 KCMIL CU Wire	8	EA	0%	8.00	0.600	4.8	$ 23.43	$ 187.44	$ -	$ -	$ 50.12	$ 400.94	$ 588.38
69			Electrical	Compression Lugs CU With 1- Hole, #500 KCMIL AL Wire Heat Shrink Tubing For #500 KCMIL AL Wire	32	EA	0%	32.00	0.800	25.6		$ -	$ -	$ -	$ 66.82	$ 2,138.37	$ 2,138.37
70			Electrical	Compression Lugs CU With 1- Hole, #600 KCMIL CU Wire Heat Shrink Tubing For #600 KCMIL CU Wire	16	EA	0%	16.00	0.600	9.6	$ 117.74	$ 1,883.84	$ -	$ -	$ 50.12	$ 801.89	$ 2,685.73
				Switchboard													
71			Electrical	(1200A, 120/208V, 3P, 4W) MLO Type 3-Section Switchboard, NEMA-1	1	EA	0%	1.00	72.000	72.0		$ -	$ -	$ -	$ 6,014.16	$ 6,014.16	$ 6,014.16
				Switchboard Details													
72			Electrical	1/2" Dia Reinforcing Rod	4	EA	0%	4.00	0.500	2.0		$ -	$ -	$ -	$ 41.77	$ 167.06	$ 167.06
73			Electrical	Anchor Bolts	8	EA	0%	8.00	0.500	4.0		$ -	$ -	$ -	$ 41.77	$ 334.12	$ 334.12
74			Electrical	Concrete Base	1	EA	0%	1.00	0.500	0.5		$ -	$ -	$ -	$ 41.77	$ 41.77	$ 41.77
75			Electrical	RMC Long Sweep Elbows	2	EA	0%	2.00	1.500	3.0		$ -	$ -	$ -	$ 125.30	$ 250.59	$ 250.59
76			Electrical	6"x6"- W4.5xW4.5 Welded Wire Fabric	2	EA	0%	2.00	0.500	1.0		$ -	$ -	$ -	$ 41.77	$ 83.53	$ 83.53
				Panels													
77			Electrical	L1: (100A, 120/208V, 3P, 4W) 100A MCB Panel, Surface Mounted, NEMA-1 MFR: SQUARE D QMB, I-LINE	1	EA	0%	1.00	11.000	11.0		$ -	$ -	$ -	$ 918.83	$ 918.83	$ 918.83
78			Electrical	T1: (100A, 120/208V, 3P, 4W) 100A MCB Panel, Surface Mounted, NEMA-1 MFR: SQUARE D QMB, I-LINE	1	EA	0%	1.00	11.000	11.0		$ -	$ -	$ -	$ 918.83	$ 918.83	$ 918.83
79			Electrical	P1: (400A, 120/208V, 3P, 4W) 400A MCB Panel, Surface Mounted, NEMA-1 MFR: SQUARE D QMB, I-LINE	1	EA	0%	1.00	20.000	20.0		$ -	$ -	$ -	$ 1,670.60	$ 1,670.60	$ 1,670.60
80			Electrical	P2: (225A, 120/208V, 3P, 4W) 225A MCB Panel, Surface Mounted, NEMA-1 MFR: SQUARE D QMB, I-LINE	1	EA	0%	1.00	14.750	14.8		$ -	$ -	$ -	$ 1,232.07	$ 1,232.07	$ 1,232.07
81			Electrical	LCP: (100A, 120V, 1P, 2W) 100A MCB Lighting Control Panel	1	EA	0%	1.00	11.000	11.0		$ -	$ -	$ -	$ 918.83	$ 918.83	$ 918.83
				Breakers													
82			Electrical	(15A, 1P) Circuit Breaker	8	EA	0%	8.00	0.300	2.4	$ 19.86	$ 158.88	$ -	$ -	$ 25.06	$ 200.47	$ 359.35
83			Electrical	(15A, 2P) Circuit Breaker	12	EA	0%	12.00	0.400	4.8	$ 45.72	$ 548.64	$ -	$ -	$ 33.41	$ 400.94	$ 949.58
84			Electrical	(20A, 1P) Circuit Breaker	68	EA	0%	68.00	0.300	20.4	$ 19.86	$ 1,350.48	$ -	$ -	$ 25.06	$ 1,704.01	$ 3,054.49
85			Electrical	(20A, 1P) Circuit Breaker-GFCI	1	EA	0%	1.00	0.300	0.3	$ 159.03	$ 159.03	$ -	$ -	$ 25.06	$ 25.06	$ 184.09
86			Electrical	(20A, 2P) Circuit Breaker	11	EA	0%	11.00	0.400	4.4	$ 45.72	$ 502.92	$ -	$ -	$ 33.41	$ 367.53	$ 870.45
87			Electrical	(25A, 2P) Circuit Breaker	1	EA	0%	1.00	0.400	0.4	$ 55.02	$ 55.02	$ -	$ -	$ 33.41	$ 33.41	$ 88.43
88			Electrical	(30A, 2P) Circuit Breaker	2	EA	0%	2.00	0.400	0.8	$ 45.72	$ 91.44	$ -	$ -	$ 33.41	$ 66.82	$ 158.26
89			Electrical	(35A, 2P) Circuit Breaker	1	EA	0%	1.00	0.400	0.4	$ 45.72	$ 45.72	$ -	$ -	$ 33.41	$ 33.41	$ 79.13
90			Electrical	(40A, 2P) Circuit Breaker	2	EA	0%	2.00	0.400	0.8	$ 45.72	$ 91.44	$ -	$ -	$ 33.41	$ 66.82	$ 158.26
91			Electrical	(45A, 3P) HACR Circuit Breaker	1	EA	0%	1.00	0.600	0.6		$ -	$ -	$ -	$ 50.12	$ 50.12	$ 50.12
92			Electrical	(50A, 2P) Circuit Breaker	1	EA	0%	1.00	0.400	0.4	$ 45.72	$ 45.72	$ -	$ -	$ 33.41	$ 33.41	$ 79.13
93			Electrical	(50A, 3P) HACR Circuit Breaker	1	EA	0%	1.00	0.600	0.6	$ 104.52	$ 104.52	$ -	$ -	$ 50.12	$ 50.12	$ 154.64
94			Electrical	(60A, 3P) HACR Circuit Breaker	2	EA	0%	2.00	0.600	1.2	$ 169.26	$ 338.52	$ -	$ -	$ 50.12	$ 100.24	$ 438.76
95			Electrical	(100A, 3P) Main Circuit Breaker	3	EA	0%	3.00	0.600	1.8		$ -	$ -	$ -	$ 50.12	$ 150.35	$ 150.35
96			Electrical	(225A, 3P) Main Circuit Breaker	1	EA	0%	1.00	1.500	1.5		$ -	$ -	$ -	$ 125.30	$ 125.30	$ 125.30
97			Electrical	(400A, 3P) Main Circuit Breaker	2	EA	0%	2.00	3.000	6.0		$ -	$ -	$ -	$ 250.59	$ 501.18	$ 501.18
				Disconnect Switches													
98			Electrical	400A Fused Disconnect Switch	1	EA	0%	1.00	8.000	8.0	$ 2,585.31	$ 2,585.31	$ -	$ -	$ 668.24	$ 668.24	$ 3,253.55
				Transformers													
99			Electrical	(500KVA, 120/208:120/208V) Transformer	1	EA	0%	1.00	36.000	36.0		$ -	$ -	$ -	$ 3,007.08	$ 3,007.08	$ 3,007.08
				Transformers Details													
100			Electrical	1/2" x 10' Ground Rod By Utility Company	2	EA	0%	2.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -
101			Electrical	#2/0 Bare CU Bu Utility Company	10	LF	10%	11.00	0.022	0.2	$ 4.77	$ 52.47	$ -	$ -	$ 1.84	$ 20.21	$ 72.68
102			Electrical	6x6-4.0x4.1 Welded Wire Fabric Pad Reinforcement	3	EA	0%	3.00	0.500	1.5		$ -	$ -	$ -	$ 41.77	$ 125.30	$ 125.30
103			Electrical	36" Radius RMC 90 Deg Elbows	5	EA	0%	5.00	1.500	7.5		$ -	$ -	$ -	$ 125.30	$ 626.48	$ 626.48
				Grounding													
104			Electrical	#6 Bare CU Grounding Wire in 3/4" HWPVC Conduit	30	LF	10%	33.00	0.046	1.5	$ 1.52	$ 50.16	$ -	$ -	$ 3.84	$ 126.80	$ 176.96
105			Electrical	#4 AWG CU Grounding Wire Concrete Encased Electrode	20	LF	10%	22.00	0.013	0.3	$ 2.03	$ 44.66	$ -	$ -	$ 1.09	$ 23.89	$ 68.55
106			Electrical	#4 AWG CU Grounding Wire for Metal Frame of Building or Structure	20	LF	10%	22.00	0.013	0.3	$ 2.03	$ 44.66	$ -	$ -	$ 1.09	$ 23.89	$ 68.55
107			Electrical	#4 AWG CU Grounding Wire for Metal Underground Water Pipe	20	LF	10%	22.00	0.013	0.3	$ 2.03	$ 44.66	$ -	$ -	$ 1.09	$ 23.89	$ 68.55
108			Electrical	#4 CU Grounding Electrode Conductor	20	LF	10%	22.00	0.013	0.3	$ 2.03	$ 44.66	$ -	$ -	$ 1.09	$ 23.89	$ 68.55
109			Electrical	#4 Insulated Copper Grounding Wire	20	LF	10%	22.00	0.013	0.3	$ 2.03	$ 44.66	$ -	$ -	$ 1.09	$ 23.89	$ 68.55
110			Electrical	#1/0 Bonding Jumper	1	EA	0%	1.00	0.500	0.5		$ -	$ -	$ -	$ 41.77	$ 41.77	$ 41.77
111			Electrical	#1/0 CU Equipment Bonding Jumper I f Metallic Conduit	4	EA	0%	4.00	0.500	2.0		$ -	$ -	$ -	$ 41.77	$ 167.06	$ 167.06
112			Electrical	#10 CU Grounding Electrode Conductor	60	LF	10%	66.00	0.025	1.7	$ 6.61	$ 436.26	$ -	$ -	$ 2.09	$ 137.82	$ 574.08
113			Electrical	#4/0 AWG CU Grounding Wire	30	LF	10%	33.00	0.028	0.9	$ 8.71	$ 287.43	$ -	$ -	$ 2.34	$ 77.18	$ 364.61
114			Electrical	#4/0 CU Grounding Electrode Conductor	20	LF	10%	22.00	0.028	0.6	$ 8.71	$ 191.62	$ -	$ -	$ 2.34	$ 51.45	$ 243.07
115			Electrical	#4/0 Ground Ring Encircling Structure	2	EA	0%	2.00	0.500	1.0		$ -	$ -	$ -	$ 41.77	$ 83.53	$ 83.53
116			Electrical	3/4" x 10' CU Copper Rod	3	EA	0%	3.00	1.500	4.5	$ 80.57	$ 241.71	$ -	$ -	$ 125.30	$ 375.89	$ 617.60
117			Electrical	1/4" x 2" x24" Ground Bar, HARGER GBI SERIES	1	EA	0%	1.00	0.500	0.5		$ -	$ -	$ -	$ 41.77	$ 41.77	$ 41.77
118			Electrical	Insulator, Molded Polyester Fiberglass For Grounding Bar	2	EA	0%	2.00	0.500	1.0		$ -	$ -	$ -	$ 41.77	$ 83.53	$ 83.53
119			Electrical	Brackets And Bonding For Grounding Bar	2	EA	0%	2.00	0.500	1.0		$ -	$ -	$ -	$ 41.77	$ 83.53	$ 83.53
120			Electrical	5/8" x 10' CU Clad Steel Ground Rod	1	EA	0%	1.00	1.500	1.5	$ 50.91	$ 50.91	$ -	$ -	$ 125.30	$ 125.30	$ 176.21
				Misc. Items													
121			Electrical	Meter	1	EA	0%	1.00	2.000	2.0		$ -	$ -	$ -	$ 167.06	$ 167.06	$ 167.06

DETAILED TAKEOFF / ESTIMATE
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

#VALUE!

Project Name	KEYES FIRE STATION 40	PROJECT COST	$ 583,537
Location	5629 7TH STREET, KEYES, CA 95328	OVERHEAD COST	$ 58,354
Project Scope:	ROOFING & ELECTRICAL	PROFIT COST	$ 58,354
Addendum:	N/A	ADDITIONAL COST (If Any)	$ 5,749
Date:	Tuesday, November 3, 2026	TOTAL BID COST	$ 705,993
	BY OTHERS/ SEPERATE PERMIT/ BY OWNER	NEED QUOTATION	

SR #	DRAWING REF #	SCOPE ITEM	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY WITH WASTAGE	UNIT LABOR HOURS	TOTAL LABOR HOURS	UNIT MATERIAL COST	TOTAL MATERIAL COST	UNIT EQUIPMENT COST	TOTAL EQUIPMENT COST	UNIT LABOR COST	TOTAL LABOR COST	TOTAL COST	DIV COST
			POWER														
			Power Conductors														
122		Electrical	#12 AWG CU THHN/THWN	13876	LF	10%	15263.60	0.006	91.6	$ 0.29	$ 4,426.44	$ -	$ -	$ 0.50	$ 7,649.81	$ 12,076.26	
123		Electrical	#10 AWG CU THHN/THWN	15231	LF	10%	16754.10	0.007	117.3	$ 0.44	$ 7,371.80	$ -	$ -	$ 0.58	$ 9,796.29	$ 17,168.09	
124		Electrical	#8 AWG CU THHN/THWN	3231	LF	10%	3554.10	0.009	32.0	$ 0.81	$ 2,878.82	$ -	$ -	$ 0.75	$ 2,671.87	$ 5,550.69	
125		Electrical	#6 AWG CU THHN/THWN	825	LF	10%	907.50	0.011	10.0	$ 1.25	$ 1,134.38	$ -	$ -	$ 0.92	$ 833.84	$ 1,968.21	
			Power Conduits														
126		Electrical	3/4" EMT Conduit	10627	LF	10%	11689.70	0.045	526.0	$ 1.11	$ 12,975.57	$ -	$ -	$ 3.76	$ 43,939.83	$ 56,915.40	
127		Electrical	3/4" LFMC Conduit	27	LF	10%	29.70	0.080	2.4	$ 2.96	$ 87.91	$ -	$ -	$ 6.68	$ 198.47	$ 286.38	
128		Electrical	3/4" PVC SCH 40 Conduit	50	LF	10%	55.00	0.035	1.9	$ 0.45	$ 24.75	$ -	$ -	$ 2.92	$ 160.80	$ 185.55	
129		Electrical	3/4" RGS Conduit	18	LF	10%	19.80	0.220	4.4		$ -	$ -	$ -	$ 18.38	$ 363.86	$ 363.86	
130		Electrical	1/2" Flexible Conduit	9	LF	10%	9.90	0.050	0.5	$ 1.21	$ 11.98	$ -	$ -	$ 4.18	$ 41.35	$ 53.33	
			Terminations														
131		Electrical	Compression Lugs CU With 1- Hole, #8CU Wire Heat Shrink Tubing For #8 CU Wire	12	EA	0%	12.00	0.150	1.8	$ 5.39	$ 64.68	$ -	$ -	$ 12.53	$ 150.35	$ 215.03	
132		Electrical	Compression Lugs CU With 1- Hole, #6 CU Wire Heat Shrink Tubing For #6 CU Wire	6	EA	0%	6.00	0.150	0.9	$ 4.63	$ 27.78	$ -	$ -	$ 12.53	$ 75.18	$ 102.96	
			Power Devices														
133		Electrical	(15A, 1P) Duplex Receptacle AFI	23	EA	0%	23.00	0.600	13.8	$ 19.69	$ 452.87	$ -	$ -	$ 50.12	$ 1,152.71	$ 1,605.58	
134		Electrical	(15A, 1P) Duplex Receptacle Tamper Resistant	5	EA	0%	5.00	0.600	3.0	$ 19.69	$ 98.45	$ -	$ -	$ 50.12	$ 250.59	$ 349.04	
135		Electrical	(15A, 1P) Double Duplex Receptacle Tamper Resistant GFCI	1	EA	0%	1.00	0.700	0.7	$ 49.43	$ 49.43	$ -	$ -	$ 58.47	$ 58.47	$ 107.90	
136		Electrical	(20A, 1P) Simplex Receptacle NEMA 5-20R MFR: HUBBELL HBL5362	7	EA	0%	7.00	0.700	4.9	$ 41.61	$ 291.27	$ -	$ -	$ 58.47	$ 409.30	$ 700.57	
137		Electrical	Simplex Receptacle NEMA 6-50R MFR: HUBBELL HBL9367	1	EA	0%	1.00	0.700	0.7	$ 61.31	$ 61.31	$ -	$ -	$ 58.47	$ 58.47	$ 119.78	
138		Electrical	(20A, 1P) Duplex Receptacle AFI MFR: HUBBELL	10	EA	0%	10.00	0.600	6.0	$ 19.69	$ 196.90	$ -	$ -	$ 50.12	$ 501.18	$ 698.08	
139		Electrical	(20A, 1P) Duplex Receptacle GFCI WP NEMA-3R MFR: HUBBELL	5	EA	0%	5.00	0.700	3.5	$ 62.73	$ 313.65	$ -	$ -	$ 58.47	$ 292.36	$ 606.01	
140		Electrical	(20A, 1P) Duplex Receptacle Tamper Resistant MFR: HUBBELL BR20TR	49	EA	0%	49.00	0.600	29.4	$ 19.69	$ 964.81	$ -	$ -	$ 50.12	$ 2,455.78	$ 3,420.59	
141		Electrical	(20A, 1P) Duplex Receptacle Tamper Resistant GFCI MFR: HUBBELL	3	EA	0%	3.00	0.700	2.1	$ 49.43	$ 148.29	$ -	$ -	$ 58.47	$ 175.41	$ 323.70	
142		Electrical	(20A, 1P) Double Duplex Receptacle Surface Mounted MFR: HUBBELL	9	EA	0%	9.00	0.600	5.4	$ 19.69	$ 177.21	$ -	$ -	$ 50.12	$ 451.06	$ 628.27	
143		Electrical	(20A, 1P) Double Duplex Receptacle Tamper Resistant MFR: HUBBELL	11	EA	0%	11.00	0.600	6.6	$ 19.69	$ 216.59	$ -	$ -	$ 50.12	$ 551.30	$ 767.89	
144		Electrical	(20A, 1P) Double Duplex Receptacle Tamper Resistant GFCI MFR: HUBBELL	15	EA	0%	15.00	0.700	10.5	$ 49.43	$ 741.45	$ -	$ -	$ 58.47	$ 877.07	$ 1,618.52	
145		Electrical	(20A, 1P) Double Duplex Receptacle WP GFCI NEMA 4X MFR: HUBBELL	5	EA	0%	5.00	0.700	3.5	$ 62.73	$ 313.65	$ -	$ -	$ 58.47	$ 292.36	$ 606.01	
146		Electrical	(20A, 1P) Electrical Floor Box MFR: STEEL CITY, PT-7006	6	EA	0%	6.00	1.000	6.0		$ -	$ -	$ -	$ 83.53	$ 501.18	$ 501.18	
			Equipment Connection														
147		Electrical	(15A, 1P) Equipment Connection	6	EA	0%	6.00	1.500	9.0		$ -	$ -	$ -	$ 125.30	$ 751.77	$ 751.77	
148		Electrical	(15A, 2P) Equipment Connection	4	EA	0%	4.00	1.500	6.0		$ -	$ -	$ -	$ 125.30	$ 501.18	$ 501.18	
149		Electrical	(15A, 3P) Equipment Connection	8	EA	0%	8.00	1.500	12.0		$ -	$ -	$ -	$ 125.30	$ 1,002.36	$ 1,002.36	
150		Electrical	(20A, 1P) Equipment Connection	32	EA	0%	32.00	1.500	48.0		$ -	$ -	$ -	$ 125.30	$ 4,009.44	$ 4,009.44	
151		Electrical	(20A, 2P) Equipment Connection	10	EA	0%	10.00	1.500	15.0		$ -	$ -	$ -	$ 125.30	$ 1,252.95	$ 1,252.95	
152		Electrical	(25A, 2P) Equipment Connection	1	EA	0%	1.00	1.500	1.5		$ -	$ -	$ -	$ 125.30	$ 125.30	$ 125.30	
153		Electrical	(30A, 2P) Equipment Connection	2	EA	0%	2.00	1.500	3.0		$ -	$ -	$ -	$ 125.30	$ 250.59	$ 250.59	
154		Electrical	(35A, 2P) Equipment Connection	1	EA	0%	1.00	2.500	2.5		$ -	$ -	$ -	$ 208.83	$ 208.83	$ 208.83	
155		Electrical	(45A, 3P) Equipment Connection	1	EA	0%	1.00	2.500	2.5		$ -	$ -	$ -	$ 208.83	$ 208.83	$ 208.83	
156		Electrical	(50A, 3P) Equipment Connection	1	EA	0%	1.00	2.500	2.5		$ -	$ -	$ -	$ 208.83	$ 208.83	$ 208.83	
157		Electrical	(60A, 3P) Equipment Connection	2	EA	0%	2.00	2.500	5.0		$ -	$ -	$ -	$ 208.83	$ 417.65	$ 417.65	
			Saw Cut														
158		Electrical	Saw Cut & Repair Concrete Floor For Conduit Installation	50	LF	10%	55.00	0.500	27.5		$ -	$ -	$ -	$ 41.77	$ 2,297.08	$ 2,297.08	
			Misc. Items														
159		Electrical	Junction Box	6	EA	0%	6.00	0.500	3.0	$ 10.34	$ 62.04	$ -	$ -	$ 41.77	$ 250.59	$ 312.63	
			LIGHTING														
			Lighting Conductors														
160		Electrical	#12 AWG CU THHN/THWN	747	LF	10%	821.70	0.006	4.9	$ 0.29	$ 238.29	$ -	$ -	$ 0.50	$ 411.82	$ 650.11	
161		Electrical	#12 Gauge Slack Safety wire	108	LF	10%	118.80	0.006	0.7	$ 0.29	$ 34.45	$ -	$ -	$ 0.50	$ 59.54	$ 93.99	
162		Electrical	#12 Hanging Wire	1056	LF	10%	1161.60	0.006	7.0	$ 0.29	$ 336.86	$ -	$ -	$ 0.50	$ 582.17	$ 919.03	
163		Electrical	#10 AWG CU THHN/THWN	10713	LF	10%	11784.30	0.007	82.5	$ 0.44	$ 5,185.09	$ -	$ -	$ 0.58	$ 6,890.40	$ 12,075.49	
164		Electrical	#8 AWG CU THHN/THWN	1224	LF	10%	1346.40	0.009	12.1	$ 0.81	$ 1,090.58	$ -	$ -	$ 0.75	$ 1,012.18	$ 2,102.77	
			Lighting Conduits														
165		Electrical	3/4" EMT Conduit	3874	LF	10%	4261.40	0.045	191.8	$ 1.11	$ 4,730.15	$ -	$ -	$ 3.76	$ 16,017.96	$ 20,748.12	
166		Electrical	Flexible Conduit (For Exit Sign)	76	LF	10%	83.60	0.150	12.5		$ -	$ -	$ -	$ 12.53	$ 1,047.47	$ 1,047.47	
			Lighting Fixtures														
167		Electrical	EM1: Emergency Unit - 2 Head MFR: LITHONIA MODEL: ELM6L UVOLT LTP WATTS: 3/FIX	12	EA	0%	12.00	1.000	12.0		$ -	$ -	$ -	$ 83.53	$ 1,002.36	$ 1,002.36	
168		Electrical	EM2: Emergency Unit MFR: LITHONIA MODEL: ELM6L UVOLT LTP WATTS: 3/FIX	6	EA	0%	6.00	1.000	6.0		$ -	$ -	$ -	$ 83.53	$ 501.18	$ 501.18	
169		Electrical	EX1: Single-Face Exit Sign MFR: LITHONIA MODEL: EDG W 1 RW EL WATTS: 3/FIX	17	EA	0%	17.00	0.800	13.6		$ -	$ -	$ -	$ 66.82	$ 1,136.01	$ 1,136.01	
170		Electrical	EX2: Double-Face Exit Sign MFR: LITHONIA MODEL: EDG W 2 RW EL WATTS: 3/FIX	2	EA	0%	2.00	0.800	1.6		$ -	$ -	$ -	$ 66.82	$ 133.65	$ 133.65	
171		Electrical	F1: Standard Downlight MFR: LITHONIA MODEL: LDN6 AL01 SWW1 L06 AR LD MVOLT UGZ WATTS: 25/FIX	65	EA	0%	65.00	0.800	52.0		$ -	$ -	$ -	$ 66.82	$ 4,343.56	$ 4,343.56	
172		Electrical	F2: LED Flat Panel 2X2 MFR: LITHONIA MODEL: CPX 2X2 ALO7 80CRI SWW7 SWL MVOLT WATTS: 33/FIX	36	EA	0%	36.00	14.000	504.0		$ -	$ -	$ -	$ 1,169.42	$ 42,099.12	$ 42,099.12	
173		Electrical	F3: LED Flat Panel 2X4 MFR: LITHONIA MODEL: CPX 2X4 ALO8 80CRI SWW7 SWL MVOLT WATTS: 45/FIX	3	EA	0%	3.00	14.000	42.0		$ -	$ -	$ -	$ 1,169.42	$ 3,508.26	$ 3,508.26	
174		Electrical	F4: Wraparound MFR: LITHONIA BLWP4 MODEL: 30L ADP GZ10 LP840 WATTS: 25/FIX	31	EA	0%	31.00	1.000	31.0		$ -	$ -	$ -	$ 83.53	$ 2,589.43	$ 2,589.43	
175		Electrical	F5: Wall Sconce MFR: BRINK ALERT MODEL: CDUK10-1 WATTS: 30/FIX	8	EA	0%	8.00	1.000	8.0		$ -	$ -	$ -	$ 83.53	$ 668.24	$ 668.24	
176		Electrical	F6: Linear LED System Recessed MFR: LITHONIA MODEL: CLX L48 3000LM HEF RDL MVOLT GZ10 40K 80CRI WATTS: 6/FT	5	EA	0%	5.00	1.000	5.0		$ -	$ -	$ -	$ 83.53	$ 417.65	$ 417.65	
177		Electrical	F7: Linear LED System Recessed MFR: BASO MODEL: PANO 5.25-WWG-BL-PS-OP-40K-C80-UNV-010V-077 SLF-ST-04FT WATTS: 6/FT	24	EA	0%	24.00	1.500	36.0		$ -	$ -	$ -	$ 125.30	$ 3,007.08	$ 3,007.08	
178		Electrical	F8: High Bay MFR: LITHONIA MODEL: CPHB 24000LM HEF GCL MD MVOLT GZ10 40K 90CRI WATTS: 150/FIX	15	EA	0%	15.00	2.000	30.0		$ -	$ -	$ -	$ 167.06	$ 2,505.90	$ 2,505.90	
179		Electrical	F8E: High Bay MFR: LITHONIA MODEL: CPHB 24000LM HEF GCL MD MVOLT GZ10 40K 90CRI E15WMCP WATTS: 150/FIX	5	EA	0%	5.00	2.000	10.0		$ -	$ -	$ -	$ 167.06	$ 835.30	$ 835.30	
180		Electrical	F9: Ceiling Fan With Integral Light MFR: BIG ASS FAN MODEL: FR127C-U1H00-3L02-09258-533P610 WATTS: 20/FIX	5	EA	0%	5.00	1.000	5.0		$ -	$ -	$ -	$ 83.53	$ 417.65	$ 417.65	
181		Electrical	F10: Standard Downlight MFR: LITHONIA MODEL: LDN4 AL01 27K L04 AR LD MVOLT UGZ WATTS: 13/FIX	20	EA	0%	20.00	0.800	16.0		$ -	$ -	$ -	$ 66.82	$ 1,336.48	$ 1,336.48	
182		Electrical	F11: LED System Pendant Cylinder MFR: LITHONIA MODEL: LDNSCYL 40/15 L06 AR LD MVOLT GZ10 PM WATTS: 18/FIX	3	EA	0%	3.00	1.000	3.0		$ -	$ -	$ -	$ 83.53	$ 250.59	$ 250.59	
183		Electrical	F12: Under Canopy Low Bay MFR: LITHONIA MODEL: CSVT L48 4000LM MVOLT 40K 80CRI WATTS: 34/FIX	12	EA	0%	12.00	1.000	12.0		$ -	$ -	$ -	$ 83.53	$ 1,002.36	$ 1,002.36	
184		Electrical	F13: Linear LED System Recessed MFR: LITHONIA MODEL: CSVT L48 3000LM MVOLT 40K 80CRI WATTS: 24/FT	8	LF	10%	8.80	0.150	1.3		$ -	$ -	$ -	$ 12.53	$ 110.26	$ 110.26	
185		Electrical	X2: WM_WALL Pack MFR: LITHONIA MODEL: WEDGE2 LED P2 40K 80CRI VW MVOLT SRM WATTS: 10/FIX	16	EA	0%	16.00	1.000	16.0		$ -	$ -	$ -	$ 83.53	$ 1,336.48	$ 1,336.48	
186		Electrical	X4: Wall Sconce MFR: LITHONIA MODEL: WMCL6 P1 SWW2 A75 UVOLT PE DDBXD M4 WATTS: 31/FIX	7	EA	0%	7.00	1.000	7.0		$ -	$ -	$ -	$ 83.53	$ 584.71	$ 584.71	
187		Electrical	X5: Wall Wash Ground Light MFR: LITHONIA MODEL: SAF7 LED P1 80CRI 40K MVOLT 30DEG CWL KM WATTS: 33/FIX	5	EA	0%	5.00	1.000	5.0		$ -	$ -	$ -	$ 83.53	$ 417.65	$ 417.65	
188		Electrical	X8: Tape Light (cove) MFR: JUNO MODEL: JFX 24V 200LM 100FT 40K 90CRI WL WATTS: 2/FT	116	LF	10%	127.60	0.150	19.1		$ -	$ -	$ -	$ 12.53	$ 1,598.76	$ 1,598.76	
			Lighting Controls														
189		Electrical	Occupancy Sensor MFR: WATT STOPPER WT-2250	19	EA	0%	19.00	0.750	14.3	$ 180.00	$ 3,420.00	$ -	$ -	$ 62.65	$ 1,190.30	$ 4,610.30	
190		Electrical	Dimming Switch MFR: LUTRON	15	EA	0%	15.00	0.750	11.3		$ -	$ -	$ -	$ 62.65	$ 939.71	$ 939.71	
191		Electrical	Single Pole Switch MFR: Hubbell HBL1221	5	EA	0%	5.00	0.500	2.5	$ 48.32	$ 241.60	$ -	$ -	$ 41.77	$ 208.83	$ 450.43	
192		Electrical	Occupancy Sensor Switch MFR: HUBBELL	30	EA	0%	30.00	0.750	22.5		$ -	$ -	$ -	$ 62.65	$ 1,879.43	$ 1,879.43	
193		Electrical	3-Way Dimming Switch MFR: HUBBELL	2	EA	0%	2.00	0.500	1.0	$ 48.32	$ 96.64	$ -	$ -	$ 41.77	$ 83.53	$ 180.17	
194		Electrical	Photocell MFR: PARAGON TWISTLOCK SERIES	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 83.53	$ 83.53	$ 83.53	
			SITE LIGHTING														
			Lighting Conductors														
195		Electrical	#10 AWG CU THHN/THWN	1492	LF	10%	1641.29	0.007	11.5	$ 0.44	$ 722.17	$ -	$ -	$ 0.58	$ 959.68	$ 1,681.84	
			Lighting Conduits														
196		Electrical	3/4" EMT Conduit	36	LF	10%	39.45	0.045	1.8	$ 1.11	$ 43.79	$ -	$ -	$ 3.76	$ 148.27	$ 192.06	
197		Electrical	3/4" PVC SCH 40 Conduit	342	LF	10%	375.65	0.035	13.1	$ 0.45	$ 169.04	$ -	$ -	$ 2.92	$ 1,098.23	$ 1,267.27	
			Trenching & Backfilling														
198		Electrical	Excavation & Backfilling (2' Deep x 1' Wide Trench)	510	LF	10%	561.00	0.060	33.7		$ -	$ -	$ -	$ 5.01	$ 2,811.62	$ 2,811.62	
			Lighting Fixtures														
199		Electrical	X1: Area Light Square MFR: LITHONIA MODEL: DSX1 LED P1 40K 80CRI T3M MVOLT HS WATTS: 51/FIX	6	EA	0%	6.00	1.000	6.0		$ -	$ -	$ -	$ 83.53	$ 501.18	$ 501.18	

DETAILED TAKEOFF / ESTIMATE
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

#VALUE!

Project Name	KEYES FIRE STATION 40	PROJECT COST	$ 583,537
Location	5629 7TH STREET, KEYES, CA 95328	OVERHEAD COST	$ 58,354
Project Scope:	ROOFING & ELECTRICAL	PROFIT COST	$ 58,354
Addendum:	N/A	ADDITIONAL COST (If Any)	$ 5,749
Date:	Tuesday, November 3, 2026	TOTAL BID COST	$ 705,993

BY OTHERS/ SEPERATE PERMIT/ BY OWNER | NEED QUOTATION

SR #	DRAWING REF #	SCOPE ITEM	DESCRIPTION	QUANTITY	UNIT	WASTAGE	QUANTITY WITH WASTAGE	UNIT LABOR HOURS	TOTAL LABOR HOURS	UNIT MATERIAL COST	TOTAL MATERIAL COST	UNIT EQUIPMENT COST	TOTAL EQUIPMENT COST	UNIT LABOR COST	TOTAL LABOR COST	TOTAL COST	DIV COST
200		Electrical	**Pole & Accessories**	6	EA	0%	6.00	8.000	48.0		$ -	$ -	$ -	$ 668.24	$ 4,009.44	$ 4,009.44	
201		Electrical	Anchor Bolt	24	EA	0%	24.00	0.500	12.0		$ -	$ -	$ -	$ 41.77	$ 1,002.36	$ 1,002.36	
202		Electrical	Exothermic Weld	6	EA	0%	6.00	0.500	3.0	$ 31.96	$ 191.76	$ -	$ -	$ 41.77	$ 250.59	$ 442.35	
203		Electrical	#6 Bare Stranded CU Bonding Conductor W/ 1/2" PVC Sleeve	60	LF	10%	66.00	0.011	0.7	$ 1.07	$ 70.62	$ -	$ -	$ 0.92	$ 60.64	$ 131.26	
204		Electrical	8" Loop, #6 Bare Stranded CU Bonding Conductor	6	EA	0%	6.00	0.500	3.0		$ -	$ -	$ -	$ 41.77	$ 250.59	$ 250.59	
205		Electrical	5/8" x 10' CU Clad Steel Ground Rod	6	EA	0%	6.00	1.500	9.0	$ 50.91	$ 305.46	$ -	$ -	$ 125.30	$ 751.77	$ 1,057.23	
206		Electrical	Concrete Base	6	EA	0%	6.00	0.500	3.0		$ -	$ -	$ -	$ 41.77	$ 250.59	$ 250.59	
207		Electrical	Insulated Bushing Termination	12	EA	0%	12.00	0.100	1.2		$ -	$ -	$ -	$ 8.35	$ 100.24	$ 100.24	
208		Electrical	Anchor Bolt Cover	12	EA	0%	12.00	0.500	6.0		$ -	$ -	$ -	$ 41.77	$ 501.18	$ 501.18	
209		Electrical	#4 Ties W/ 90 Deg Hooks	18	EA	0%	18.00	0.500	9.0		$ -	$ -	$ -	$ 41.77	$ 751.77	$ 751.77	
210		Electrical	Curved Lid Junction Box (MFR: CARLON, E88C24) W/ LV Driver And WP GFCI Receptacle	6	EA	0%	6.00	0.700	4.2	$ 62.73	$ 376.38	$ -	$ -	$ 58.47	$ 350.83	$ 727.21	
			ELECTRICAL VEHICLE CHARGING STATION														
			Vehicle Conductors														
211		Electrical	#10 AWG CU THHN/THWN	142	LF	10%	156.20	0.007	1.1	$ 0.44	$ 68.73	$ -	$ -	$ 0.58	$ 91.33	$ 160.06	
212		Electrical	#8 AWG CU THHN/THWN	284	LF	10%	312.40	0.009	2.8	$ 0.81	$ 253.04	$ -	$ -	$ 0.75	$ 234.85	$ 487.90	
			Vehicle Conduits														
213		Electrical	3/4" EMT Conduit	24	LF	10%	26.40	0.045	1.2	$ 1.11	$ 29.30	$ -	$ -	$ 3.76	$ 99.23	$ 128.54	
214		Electrical	3/4" PVC SCH 40 Conduit	118	LF	10%	129.80	0.035	4.5	$ 0.45	$ 58.41	$ -	$ -	$ 2.92	$ 379.48	$ 437.88	
			Terminations														
215		Electrical	Compression Lugs CU With 1- Hole, #8CU Wire Heat Shrink Tubing For #8 CU Wire	8	EA	0%	8.00	0.150	1.2	$ 5.39	$ 43.12	$ -	$ -	$ 12.53	$ 100.24	$ 143.36	
			Devices														
216		Electrical	Electrical Vehicle Charging Station MFR: LEVITON EVR GREEN 4000	2	EA	0%	2.00	2.000	4.0		$ -	$ -	$ -	$ 167.06	$ 334.12	$ 334.12	
			TELECOMMUNICATION														
			STRUCTURED CABELING														
			Conduits														
217		Telecommunication	3/4" EMT Conduit With Pull String	144	LF	10%	158.40	0.045	7.1	$ 1.11	$ 175.82	$ -	$ -	$ 3.76	$ 595.40	$ 771.23	
			COMMUNICATION DEVICES														
			Communication Devices & Outlets														
218		Telecommunication	Data Outlet	10	EA	0%	10.00	0.500	5.0	$ 7.74	$ 77.40	$ -	$ -	$ 41.77	$ 417.65	$ 495.05	
219		Telecommunication	TV Antenna Outlet	4	EA	0%	4.00	0.500	2.0	$ 7.74	$ 30.96	$ -	$ -	$ 41.77	$ 167.06	$ 198.02	
			SAFETY AND SECURITY														
			FIRE ALARM														
			Allowance														
220		Safety And Security	Allowance For Complete Fire Alarm Devices With Associated Wiring And Conduit In Th	1	LS	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 62.65	$ 62.65	$ 62.65	
			Panel														
221		Safety And Security	Fire Alarm Control Panel	1	EA	0%	1.00	16.000	16.0		$ -	$ -	$ -	$ 1,336.48	$ 1,336.48	$ 1,336.48	
							LABOR HOURS	3116.262	MATERIAL COST	$ 124,926.76	EQUIPMENT COST	$ -	LABOR COST	$ 260,301.37	SUBTOTAL		$ 385,228.12

TOTAL MATERIAL COST	$ 194,011
TOTAL LABOR COST	$ 356,732
TOTAL EQUIPMET COST	$ -
TOTAL LABOR HOURS	4,271

PRICING NOTES & QA | KEYES FIRE STATION 40 - ROOFING & ELECTRICAL

5629 7th Street, Keyes CA 95328 (Stanislaus County) | Roofing (Div 07) and Electrical (Div 26) | CA PREVAILING WAGE (public works) | Priced 2026-10-08 | Takeoff only

1. EXECUTIVE PRICING SUMMARY

#	Item	Workbook (live)	Independent calc	Variance	Basis / cell reference
1	Base Bid Price (block 1)	$705,993.07	$705,993.07	$0.00	PROPOSAL SUMMARY E40

#	Direct cost component (all sheets)	Value	Notes
1	Material (before tax)	$194,010.99	Sum of line material, all detail sheets
2	Labor (base wage + fringe)	$356,731.84	Sum of line labor at the rate the template formula actually uses
3	Equipment	$0.00	Line equipment (template: unit equipment x labor hours)
4	Additional costs carried in summary rows	$5,749.00	Div-01 items with no template line; itemized in section 6
5	Total labor hours	4,270.7	All detail sheets

#	Count	Value	Notes
1	Takeoff line items reviewed	221	All quantity lines on all detail sheets, incl. Div-01 template lines
2	Line items priced (non-zero)	214	
3	Lines left blank with NEED QUOTATION fill	97	Material not priced: no published price found, or fixture/equipment per FEDES rule. Listed in section 7
4	Allowances	0	Section 8
5	Discrepancies identified	3	Section 9
6	High / critical risks	4	Section 13
7	Template formula issues	1	Section 15

No plans or specifications were provided. Quantities are priced as received and could not be checked against drawings.
California prevailing wage (DIR) rates used for roofers, inside wiremen and laborers. Foreman premiums and apprentice ratios were not sourced; foremen at journeyman rate.

California workers comp rates for roofing (5552) and electrical (5190) were NOT found and are NOT included in labor burden. Roofing WC in California is typically a large percentage of payroll: this is the biggest open cost. See risk register.

2. PRICING METHODOLOGY

- Only input cells were written: unit labor hours (I), unit material (K), unit equipment (M = 0), division labor rates, Div-01 inputs and the summary tax / OH&P / bond / additional-cost / man-loading rate cells. No formula, sheet, row, column, merge, unit or quantity was changed.

- Labor = crew composite rate x unit hours x quantity with waste. Statutory payroll burden goes through the template LABOR TAX cell. Prevailing fringe is in the hourly rate; statutory burden on base wage only.

- Material = published 2026 online list prices seen 2026-10-08 (mostly superarbor.io and K&M Sheet Metal). No trade discount; local distributor pricing requires an account.

- Lines with no published price (fabricated curbs, coping, ladders, railings, most waterproofing systems, drains with no model) are left blank with the NEED QUOTATION fill and carry install labor only.

- Sheet-metal flashings are priced from flat stock at an assumed 12 in girth; actual girth comes from the details (not provided).
- Div 26 electrical lines priced with the same distributor sources and rules as the other electrical jobs in this batch (sources E1/E2).

3. WAGE BUILD-UP

#	Classification	Base wage $/hr	Fringe $/hr	Rate (base+fringe)	Statutory burden	Loaded $/hr	Source / effective date
1	Roofer - CA prevailing (Stanislaus)	$49.65	$22.19	$71.84	$3.98	$75.82	CA DIR determination, Stanislaus, Roofer $49.65 + $22.19 fringe (issued 2/22/25, in force until superseded) [P1]
2	Inside wireman - CA prevailing (Stanislaus)	$53.00	$34.38	$87.38	$4.23	$91.61	CA DIR 2026-2, Stanislaus, Inside Wireman $53.00 + $34.38 (incl. NEBF 3%, LMCT, 1.5% contract fund) [P1]
3	Laborer Group 1 - CA prevailing (Stanislaus Area 2)	$39.65	$32.31	$71.96	$3.21	$75.17	CA DIR 2026-2 Laborer Group 1 $39.65 + $32.31 [P1]
4	Roofing foreman (journeyman rate; foreman premium not sourced)	$49.65	$22.19	$71.84	$3.98	$75.82	CA DIR determination, Stanislaus, Roofer $49.65 + $22.19 fringe (issued 2/22/25, in force until superseded) [P1]
5	Roofing helper / laborer (Laborer Group 1)	$39.65	$32.31	$71.96	$3.21	$75.17	CA DIR 2026-2 Laborer Group 1 $39.65 + $32.31 [P1]

#	Statutory burden component	Rate	Source
1	FICA (employer)	7.65%	
2	FUTA 0.6% + 1.2% CA credit reduction on $7,000	0.12%	Federal Register 2026-01-12: CA 2025 credit reduction 1.2% [T1]
3	CA UI 3.4% + ETT 0.1% on $7,000 (new employer; effective)	0.24%	CA EDD 2026 [T1]; SDI is employee-paid

4	Workers comp (5552 roofing / 5190 electrical): NOT FOUND, NOT INCLUDED	0.00%	WCIRB class rates not retrieved; only statewide average $1.65/$100 found. Must be added before bidding.

#	Division / sheet	Crew	Rate entered	Burden on rate	Cell
1	DETAILED TAKEOFF DIV-01 GENERAL REQUIREMENTS	Laborer	$71.96	4.46%	DETAILED TAKEOFF!O11
2	DETAILED TAKEOFF DIV-07 THERMAL AND MOISTURE PROTECTION	3 roofers + 1 foreman + 1 laborer	$71.86	5.32%	DETAILED TAKEOFF!O21
3	DETAILED TAKEOFF DIV-26 ELECTRICAL	3 inside wiremen + 1 laborer (CA	$83.53	4.76%	DETAILED TAKEOFF!O88

Summary block 'BASE BID PRICE': LABOR TAX D22 = 4.91% (labor-weighted burden of the divisions in the block); MATERIAL SALES TAX D19 = 7.88%; OH 10%, profit 10%.
- Public works: certified payroll (eCPR) to DIR and DIR contractor registration required; registration fee not sourced.

4. MATERIAL PRICING BASIS AND LABOR PRODUCTIVITY

Ref	Material / item	Unit	Price carried	Source	Notes
R1/R2	TPO / KEE / SBS membranes and adhesives	SF	0.51 to 2.51	superarbor.io	List prices from an online reseller
R1	Polyiso insulation, tapered, cover board	SF	0.80 to 3.90	superarbor.io	R-30 priced at ~5.2 in
R1/R2	Sheet metal (flat stock, drip edge, gutters, downspouts)	LF	1.80 to 7.15	K&M, superarbor.io	Flashing priced at 12 in girth from flat stock
R2	Shingles, concrete tile, felts, leak barrier, underlayment	SF	0.10 to 1.28	superarbor.io, Home Depot	
R1/R2	Hatch, drains, scuppers, splash blocks, grating	EA/SF	20.67 to 3,416.49	absupply, relyonpdi, zoro	
E1/E2	Electrical commodities	LF/EA	see section 18	Elliott Electric,	

Labor production rates (unit hours) are FEDES estimator judgment for the stated conditions. No published RSMeans, NECA, MCAA or NRCA unit-hour data could be accessed during this review; each rate is shown on the line table in section 18 so it can be checked against company history.

5. SALES TAX BASIS

- Keyes (unincorporated Stanislaus County) combined rate 7.875%, CDTFA table effective 10/1/2026 [T2].
- Regulation 1521: construction contractors are consumers of materials (pay tax on cost) and retailers of fixtures [T2]. 7.875% applied to all material.

6. DIVISION 01 / GENERAL REQUIREMENTS BASIS

#	Item	Location	Carried	Status	Basis
1	Permit	row 12	$0.00	N/A	Public project; agency permit / DSA review by others.
2	Site development / variance / private inspections / site plan	rows 13-15,17	$0.00	N/A	
3	Debris haul off	row 16	$0.00	N/A - gap	No tear-off in takeoff; no Stanislaus dumpster price retrieved.
4	Project Supervision	PROPOSAL	$0.00	N/A	Foremen in crews
5	Submittals	PROPOSAL	$1,213.00	Carried	16 MH: roofing system, metal roofing, electrical submittals
6	Temporary Facilities	PROPOSAL	$0.00	N/A	Not priced (fall protection, hoisting: no published rate)
7	Project Schedule	PROPOSAL	$0.00	N/A	
8	Office Overheads	PROPOSAL	$0.00	N/A	
9	Closeout	PROPOSAL	$1,213.00	Carried	16 MH: warranties, as-builts, O&M
10	Permits	PROPOSAL	$0.00	N/A	
11	Allowances	PROPOSAL	$1,503.00	Carried	Certified payroll (eCPR) admin ~2 MH/week x 10 weeks
12	Mobilization	PROPOSAL	$1,820.00	Carried	3 mobilizations x 8 MH
13	Sub-Contracts	PROPOSAL	$0.00	N/A	

7. VENDOR QUOTES REQUIRED / NEED QUOTATION LINES

#	Sheet!row	Item	Qty	Unit	Labor carried?	Reason material is blank
1	DETAILED TAKEOFF!27	Vapor Retarder	8267.6	SF	Yes	Vapor retarder product not specified
2	DETAILED TAKEOFF!31	Metal Coping	410.3	LF	Yes	Prefinished 24 ga coping/parapet cap price not found
3	DETAILED TAKEOFF!32	J-Mold Stucco Stop	410.3	LF	Yes	Trim accessory price not found
4	DETAILED TAKEOFF!33	Drip Screed	42.9	LF	Yes	Trim accessory price not found
5	DETAILED TAKEOFF!34	J Channel And Rivet	42.9	LF	Yes	Trim accessory price not found
6	DETAILED TAKEOFF!38	Backer Rod	69.3	LF	Yes	Backer rod price not found
7	DETAILED TAKEOFF!40	24 GA. Pre Finished	551.1	LF	Yes	Prefinished 24 ga coping/parapet cap price not found
8	DETAILED TAKEOFF!42	Roof Curb	132	LF	Yes	Fabricated curb price not found
9	DETAILED TAKEOFF!46	(2'-6" X 2'-6") Walk	2.2	EA	Yes	Walk pad of this size not found
10	DETAILED TAKEOFF!47	(5'-0" X 2'-6") Walk	30.8	EA	Yes	Walk pad of this size not found
11	DETAILED TAKEOFF!49	(24'-0" H) Roof	1.1	EA	Yes	Ladder/stair product price not found

12	DETAILED TAKEOFF!53	7.2 Metal Panel Roof	2257.2	SF	Yes	7.2 / PBR 24 ga panel price not found
13	DETAILED TAKEOFF!56	24 GA. Downspout	39.6	LF	Yes	24 ga steel downspout price not found
14	DETAILED TAKEOFF!62	Standing Seam Metal Panel Roof	9358.8	SF	Yes	24 ga standing seam panel price not found (only 26 ga listings that look high)
15	DETAILED TAKEOFF!65	Metal Flush Panel	2357.3	SF	Yes	Soffit panel/stucco system not priced
16	DETAILED TAKEOFF!69	24 GA. Downspout	35.2	LF	Yes	24 ga steel downspout price not found
17	DETAILED TAKEOFF!104	4" LFMC Conduit	3.3	LF	Yes	LFMC 4 in UL price not found
18	DETAILED TAKEOFF!106	4" RGS Conduit	13.2	LF	Yes	RGS size price not found
19	DETAILED TAKEOFF!110	Compression Lugs CU With 1- Hole, #3	26	EA	Yes	Lug #3 price not found
20	DETAILED TAKEOFF!114	Compression Lugs CU With 1- Hole, #500 KCMIL AL	32	EA	Yes	Al-rated lug not priced
21	DETAILED TAKEOFF!118	(1200A, 120/208V, 3P, 4W) MLO Type	1	EA	Yes	Electrical gear: no complete published price; vendor quote
22	DETAILED TAKEOFF!121	1/2" Dia Reinforcing	4	EA	Yes	Accessory not priced (no published price found)
23	DETAILED TAKEOFF!122	Anchor Bolts	8	EA	Yes	Accessory not priced (no published price found)
24	DETAILED TAKEOFF!123	Concrete Base	1	EA	Yes	Accessory not priced (no published price found)
25	DETAILED TAKEOFF!124	RMC Long Sweep	2	EA	Yes	Elbow size/radius not priced
26	DETAILED TAKEOFF!125	6"x6"- W4.5x4.5	2	EA	Yes	Accessory not priced (no published price found)
27	DETAILED TAKEOFF!128	L1: (100A, 120/208V, 3P, 4W) 100A MCB Panel,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
28	DETAILED TAKEOFF!129	T1: (100A, 120/208V, 3P, 4W) 100A MCB Panel,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
29	DETAILED TAKEOFF!130	P1: (400A, 120/208V, 3P, 4W) 400A MCB Panel,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
30	DETAILED TAKEOFF!131	P2: (225A, 120/208V, 3P, 4W) 225A MCB Panel,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
31	DETAILED TAKEOFF!132	LCP: (100A, 120V,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
32	DETAILED TAKEOFF!144	(45A, 3P) HACR	1	EA	Yes	3P 45A breaker not found / frame unconfirmed
33	DETAILED TAKEOFF!148	(100A, 3P) Main	3	EA	Yes	Main breaker ships with panel; in gear quote
34	DETAILED TAKEOFF!149	(225A, 3P) Main	1	EA	Yes	Main breaker ships with panel; in gear quote
35	DETAILED TAKEOFF!150	(400A, 3P) Main	2	EA	Yes	Main breaker ships with panel; in gear quote
36	DETAILED TAKEOFF!156	(500KVA,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
37	DETAILED TAKEOFF!161	6x6-4.5x4.5 Welded Wire Fabric Pad	3	EA	Yes	Accessory not priced (no published price found)
38	DETAILED TAKEOFF!162	36" Radius RMC 90	5	EA	Yes	Elbow size/radius not priced
39	DETAILED TAKEOFF!171	#1/0 Bonding Jumper	1	EA	Yes	Grounding accessory: size/length not priced
40	DETAILED TAKEOFF!172	#1/0 CU Equipment Bonding Jumper if	4	EA	Yes	Grounding accessory: size/length not priced
41	DETAILED TAKEOFF!176	#4/0 Ground Ring	2	EA	Yes	Grounding accessory: size/length not priced
42	DETAILED TAKEOFF!178	1/4" x 2" x24" Ground Bar,	1	EA	Yes	Grounding accessory: size/length not priced
43	DETAILED TAKEOFF!179	Insulator, Molded Polyester Fiberglass	2	EA	Yes	Grounding accessory: size/length not priced
44	DETAILED TAKEOFF!180	Brackets And	2	EA	Yes	Grounding accessory: size/length not priced
45	DETAILED TAKEOFF!184	Meter	1	EA	Yes	Electrical gear: no complete published price; vendor quote
46	DETAILED TAKEOFF!197	3/4" RGS Conduit	19.8	LF	Yes	RGS size price not found
47	DETAILED TAKEOFF!218	(20A, 1P) Electrical Floor Box MFR:	6	EA	Yes	Item not matched to a published price
48	DETAILED TAKEOFF!221	(15A, 1P) Equipment	6	EA	Yes	Flex whip/fittings for connection not priced
49	DETAILED TAKEOFF!222	(15A, 2P) Equipment	4	EA	Yes	Flex whip/fittings for connection not priced
50	DETAILED TAKEOFF!223	(15A, 3P) Equipment	8	EA	Yes	Flex whip/fittings for connection not priced
51	DETAILED TAKEOFF!224	(20A, 1P) Equipment	32	EA	Yes	Flex whip/fittings for connection not priced
52	DETAILED TAKEOFF!225	(20A, 2P) Equipment	10	EA	Yes	Flex whip/fittings for connection not priced
53	DETAILED TAKEOFF!226	(25A, 2P) Equipment	1	EA	Yes	Flex whip/fittings for connection not priced
54	DETAILED TAKEOFF!227	(30A, 2P) Equipment	2	EA	Yes	Flex whip/fittings for connection not priced
55	DETAILED TAKEOFF!228	(35A, 2P) Equipment	1	EA	Yes	Flex whip/fittings for connection not priced
56	DETAILED TAKEOFF!229	(45A, 3P) Equipment	1	EA	Yes	Flex whip/fittings for connection not priced
57	DETAILED TAKEOFF!230	(50A, 3P) Equipment	1	EA	Yes	Flex whip/fittings for connection not priced

58	DETAILED TAKEOFF!231	(60A, 3P) Equipment	2	EA	Yes	Flex whip/fittings for connection not priced
59	DETAILED TAKEOFF!234	Saw Cut & Repair Concrete Floor For	55	LF	Yes	Concrete patch material and saw rental not priced
60	DETAILED TAKEOFF!249	Flexible Conduit (For	83.6	LF	Yes	Linear fixture: schedule/manufacturer quote
61	DETAILED TAKEOFF!252	EM1: Emergency Unit - 2 Head MFR:	12	EA	Yes	Light fixture: schedule/manufacturer quote required
62	DETAILED TAKEOFF!253	EM2: Emergency Unit MFR:	6	EA	Yes	Light fixture: schedule/manufacturer quote required
63	DETAILED TAKEOFF!254	EX1: Single-Face Exit Sign MFR:	17	EA	Yes	Light fixture: schedule/manufacturer quote required
64	DETAILED TAKEOFF!255	EX2: Double-Face Exit Sign MFR:	2	EA	Yes	Light fixture: schedule/manufacturer quote required
65	DETAILED TAKEOFF!256	F1: Standard Downlight MFR: LITHONIA MODEL:	65	EA	Yes	Light fixture: schedule/manufacturer quote required
66	DETAILED TAKEOFF!257	F2: LED Flat Panel 2X2 MFR: LITHONIA MODEL:	36	EA	Yes	Electrical gear: no complete published price; vendor quote
67	DETAILED TAKEOFF!258	F3: LED Flat Panel 2X4 MFR: LITHONIA MODEL:	3	EA	Yes	Electrical gear: no complete published price; vendor quote
68	DETAILED TAKEOFF!259	F4: Wraparound MFR: LITHONIA	31	EA	Yes	Light fixture: schedule/manufacturer quote required
69	DETAILED TAKEOFF!260	F5: Wall Sconce MFR: BRINK	8	EA	Yes	Light fixture: schedule/manufacturer quote required
70	DETAILED TAKEOFF!261	F6: Linear LED System Recessed MFR: LITHONIA	5	EA	Yes	Light fixture: schedule/manufacturer quote required
71	DETAILED TAKEOFF!262	F7: Linear LED System Recessed MFR: BASO	24	EA	Yes	Light fixture: schedule/manufacturer quote required
72	DETAILED TAKEOFF!263	F8: High Bay MFR: LITHONIA MODEL: CPHB 24000LM	15	EA	Yes	Light fixture: schedule/manufacturer quote required
73	DETAILED TAKEOFF!264	F8E: High Bay MFR: LITHONIA MODEL: CPHB 24000LM	5	EA	Yes	Light fixture: schedule/manufacturer quote required
74	DETAILED TAKEOFF!265	F9: Ceiling Fan With Integral Light MFR: BIG ASS FAN	5	EA	Yes	Light fixture: schedule/manufacturer quote required
75	DETAILED TAKEOFF!266	F10: Standard Downlight MFR: LITHONIA MODEL:	20	EA	Yes	Light fixture: schedule/manufacturer quote required
76	DETAILED TAKEOFF!267	F11: LED System Pendant Cylinder MFR: LITHONIA	3	EA	Yes	Light fixture: schedule/manufacturer quote required
77	DETAILED TAKEOFF!268	F12: Under Canopy Low Bay MFR: LITHONIA MODEL:	12	EA	Yes	Light fixture: schedule/manufacturer quote required
78	DETAILED TAKEOFF!269	F13: Linear LED System Recessed MFR: LITHONIA	8.8	LF	Yes	Linear fixture: schedule/manufacturer quote
79	DETAILED TAKEOFF!270	X2: WM_WALL Pack MFR: LITHONIA MODEL:	16	EA	Yes	Light fixture: schedule/manufacturer quote required
80	DETAILED TAKEOFF!271	X4: Wall Sconce MFR: LITHONIA	7	EA	Yes	Light fixture: schedule/manufacturer quote required
81	DETAILED TAKEOFF!272	X5: Wall Wash Ground Light MFR: LITHONIA MODEL:	5	EA	Yes	Light fixture: schedule/manufacturer quote required
82	DETAILED TAKEOFF!273	X8: Tape Light (cove) MFR: JUNO	127.6	LF	Yes	Linear fixture: schedule/manufacturer quote
83	DETAILED TAKEOFF!277	Dimming Switch MFR: LUTRON	15	EA	Yes	Control/fire alarm/special device: model not priced or not specified
84	DETAILED TAKEOFF!279	Occupancy Sensor Switch MFR:	30	EA	Yes	Control/fire alarm/special device: model not priced or not specified

85	DETAILED TAKEOFF!281	Photocell MFR:	1	EA	Yes	Light fixture: schedule/manufacturer quote required
86	DETAILED TAKEOFF!293	Excavation & Backfilling (2' Deep	561	LF	Yes	Excavator rental/backfill material not priced
87	DETAILED TAKEOFF!296	X1: Area Light Square MFR: LITHONIA MODEL:	6	EA	Yes	Light fixture: schedule/manufacturer quote required
88	DETAILED TAKEOFF!299	20' Lighting Pole	6	EA	Yes	Pole price not found
89	DETAILED TAKEOFF!300	Anchor Bolt	24	EA	Yes	Accessory not priced (no published price found)
90	DETAILED TAKEOFF!303	6" Loop, #6 Bare	6	EA	Yes	Accessory not priced (no published price found)
91	DETAILED TAKEOFF!305	Concrete Base	6	EA	Yes	Accessory not priced (no published price found)
92	DETAILED TAKEOFF!306	Insulated Bushing	12	EA	Yes	Insulated bushing size not stated
93	DETAILED TAKEOFF!307	Anchor Bolt Cover	12	EA	Yes	Accessory not priced (no published price found)
94	DETAILED TAKEOFF!308	#4 Ties W/ 90 Deg	18	EA	Yes	Accessory not priced (no published price found)
95	DETAILED TAKEOFF!324	Electrical Vehicle Charging Station	2	EA	Yes	Control/fire alarm/special device: model not priced or not specified
96	DETAILED TAKEOFF!339	Allowance For Complete Fire Alarm Devices With	1	LS	Yes	Control/fire alarm/special device: model not priced or not specified
97	DETAILED TAKEOFF!342	Fire Alarm Control Panel	1	EA	Yes	Control/fire alarm/special device: model not priced or not specified

8. ALLOWANCES

#	Item	Qty / unit	Allowance $	Basis	Included	Excluded	Why exact pricing cannot be set

9. TAKEOFF DISCREPANCIES (PRICED AS RECEIVED)

#	Issue	Takeoff	Expected /	Reference	Priced as	Exposure	Detail
1	Workbook filed as ROOFING but includes a full Div 26 electrical section	DIV-26 rows 88+	Two trades	Takeoff	Priced both, each with its own crew rate	n/a	
2	Summary project data misaligned	PROPOSAL SUMMARY C6 =	Gross area in C7	Template	Not changed	Cost/SF unreliable	
3	Four different roof systems on one fire station	KEE cold-applied, 7.2 exposed	Plausible for apparatus bay /	Takeoff	As received	n/a	

10. MISSING / ADDITIONAL SCOPE

#	Scope item	Reference	Carried?	Carried $	Exposure range	Notes
1	Vendor-quote items (NEED QUOTATION lines)	Section 7	Labor only	$0	quotes required	
2	Hoisting, fall protection, manufacturer warranty fees	Practice	No	$0	not quantified	No published rates found
3	Electrical gear, scheduled fixtures, special devices (NEED QUOTATION lines)	Section 7	Labor only	$0	quotes required	Largest open cost
4	Pull boxes, straps, supports, fittings beyond couplings/connectors, wire connectors, labels	Practice	No	$0	2% to 4% of material	

11. KEY ASSUMPTIONS

- Material at published distributor web prices; no trade discount.
- Normal working hours.
- Labor production rates are FEDES estimator judgment (section 18).

12. EXCLUSIONS

- Items on NEED QUOTATION lines until quotes are added.
- Overtime / shift work.
- Utility company charges.

13. DOLLAR EXPOSURE / RISK ITEMS

#	Risk	Reason	Carried	Low impact	High impact	Rating	Notes
1	California workers comp not included	Class rates not	0%	$30,000	$90,000	CRITICAL	Roofing WC is a large share of payroll in CA
2	Metal roof panels, coping, curbs, ladders: NEED QUOTATION	No published prices	labor only	$40,000	$120,000	HIGH	
3	Electrical gear and fixtures: NEED QUOTATION	Vendor quotes	labor only	$30,000	$90,000	HIGH	

4	Roofer DIR rate issued 2/2025	May be superseded	$71.84/hr	$0	$8,000	MODERATE	Check DIR for a newer determination
5	No drawings	Quantities	as received	-$15,000	$25,000	HIGH	

14. TAKEOFF-TO-ESTIMATE RECONCILIATION

#	Sheet / division	Takeoff lines	Priced	Need quotation	Material $	Labor $	Notes
1	DETAILED TAKEOFF DIV-01	6	0	0	$0.00	$0.00	
2	DETAILED TAKEOFF DIV-07	43	43	16	$69,084.23	$96,430.47	
3	DETAILED TAKEOFF DIV-26	172	171	81	$124,926.76	$260,301.37	

Every takeoff line is carried at its takeoff quantity, unit and division. No quantity, unit, description or formula was changed. Div-01 template quantities were entered only where a cost is carried (section 6).

15. MATHEMATICAL QA AND TEMPLATE FORMULA ISSUES

Independent calculation: every line recomputed in Python as qty x (1 + waste) x unit rate, then the template's own summary formulas evaluated against those independent line values. Result 705,993.07. Workbook after full LibreOffice recalculation: see section 1 variance column (live).

#	Issue (formula not modified)	Cells	Dollar impact now	Detail
1	Company logo is an Excel 365 in-cell picture	logo cells (A2 on detail sheets, one	$0	Shows as #VALUE in older Excel, LibreOffice and some previewers. Preserved exactly as in the original.

16. DEVIL'S ADVOCATE REVIEW

#	Area	Challenge and
1	Materials	Published web prices without trade discount. A real supplier quote will move material +/- 15%.
2	Labor	Unit hours are judgment; a published-manual estimate may differ by +/- 20%.

17. EXTERNAL SOURCES (all accessed 2026-10-08 unless noted)

Ref	Source	Used for	Data / effective	URL
P1	California DIR General Prevailing Wage Determinations, Stanislaus County	Roofer, Inside Wireman, Laborer	2026-2 / 2025	https://www.dir.ca.gov/OPRL/DPreWageDetermination.htm
T1	Federal Register FUTA; CA EDD UI/ETT 2026	Burden	2026	research file tax_burden_batch2.md
T2	CDTFA rate table eff. 10/1/2026; Regulation 1521	Sales tax	2026	research file tax_burden_batch2.md
R1	superarbor.io, K&M Sheet Metal, absupply.net, relyonpdi.com, zoro.com, greatmats.com, JM and GAF data sheets (part 1)	Roofing material prices	seen 2026-10-08	research file roofing_prices.md
R2	superarbor.io product feeds, Zoro, K&M, Home Depot and other listings (part 2)	Roofing, waterproofing, sheet	seen 2026-10-08	research file roofing_prices_2.md
E1	Elliott Electric, Standard Electric Supply, 1000Bulbs, Zoro, SupplyHouse (part 1)	Wire, EMT, lugs, QO/EDB/PowerPact	seen 2026-10-08	research file electrical_prices.md
E2	Elliott Electric, Standard Electric Supply, Nassau National Cable, superbreakers.com, Kele, Gerrie, Protegis, Greenwave, SupplyHouse (part 2)	Larger wire, conduit, lugs, breakers, safety switches, receptacles, boxes,	seen 2026-10-08	research file electrical_prices_2.md
E3	Dunn Lumber (WA)	3/4 in FRT plywood	seen 2026-09-23	https://www.dunnlumber.com

Hallucination control: a separate reviewer re-opened a 42-item sample of these source pages (prices, wage rates, tax rates, unemployment and WC rates) and confirmed all 42 against the live pages on 2026-10-08.

18. LINE PRICING BASIS (EVERY LINE)

Row	Description	Qty w/ waste	Unit hrs	Unit material	Ext. material	Ext. labor	Basis / source ref / flag
DETAI	Permit (.07% of project value) [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
DETAI	Site development [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
DETAI	Variance [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
DETAI	Private inspections [fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
DETAI	Debris haul off [load]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
DETAI	Site plan [Fee]	0	0	$0.00	$0.00	$0.00	N/A (section 6)
DETAI LED TAKE	Class 'A' Cold-Applied 2-Ply Modified Kee Roofing System [SF]	8267.6	0.015	$2.51	$20,751.68	$10,358.89	FiberTite 60 mil KEE $2.51/SF [R2] - MEMBRANE ONLY, cold adhesive (FTR-190E $421/5 gal, coverage not stated) not priced; 0.015 MH/SF
DETAI LED	1/2" Rigid Insulation Cover Board [SF]	8267.6	0.006	$1.41	$11,657.32	$4,143.56	Mule-Hide 1/2 in HD polyiso cover board $45/32 SF [R1]; 0.006 MH/SF
DETAI	Vapor Retarder [SF]	8267.6	0.004	NEED QUOTE	$0.00	$2,762.37	0.004 MH/SF
DETAI	Roof Cricket [SF]	617.1	0.015	$1.23	$759.03	$773.20	JM ENRGY 3 tapered Q $19.75/16 SF [R1]; 0.015 MH/SF
DETAI	Metal Coping [LF]	410.3	0.1	NEED QUOTE	$0.00	$3,427.24	0.100 MH/LF
DETAI	J-Mold Stucco Stop [LF]	410.3	0.04	NEED QUOTE	$0.00	$1,370.89	0.040 MH/LF

DETAI	Drip Screed [LF]	42.9	0.04	NEED QUOTE	$0.00	$143.34	0.040 MH/LF
DETAI	J Channel And Rivet [LF]	42.9	0.04	NEED QUOTE	$0.00	$143.34	0.040 MH/LF
DETAI LED	Continuous Sealant [LF]	889.9	0.02	$1.18	$1,050.08	$1,486.67	Sikaflex NP1 $14.12/tube at ~12 LF per tube (assumption) [R2]; 0.020 MH/LF
DETAI LED	26 GA. G.S.M. Flashing [LF]	15.4	0.05	$2.61	$40.19	$64.32	26 ga galvanized flat stock $2.61/SF at 12 in girth = $2.61/LF (girth assumed) [R2]; 0.050 MH/LF
DETAI LED TAKE	Corner Flashing [LF]	69.3	0.06	$3.85	$266.81	$347.32	24 ga galvanized flat stock $3.85/SF at 12 in girth = $3.85/LF (girth assumed; 26 ga for residential hip/ridge/valley would be $2.61) [R2]; 0.060 MH/LF
DETAI	Backer Rod [LF]	69.3	0.01	NEED QUOTE	$0.00	$57.89	0.010 MH/LF
DETAI LED TAKE	Metal Flashing [LF]	551.1	0.06	$3.85	$2,121.74	$2,762.00	24 ga galvanized flat stock $3.85/SF at 12 in girth = $3.85/LF (girth assumed; 26 ga for residential hip/ridge/valley would be $2.61) [R2]; 0.060 MH/LF
DETAI	24 GA. Pre Finished G.S.M. Parapet Cap [LF]	551.1	0.1	NEED QUOTE	$0.00	$4,603.34	0.100 MH/LF
DETAI	Cant Strip [LF]	551.1	0.015	$0.65	$358.22	$690.50	Mule-Hide wood fiber cant $78/120 LF [R1]; 0.015 MH/LF
DETAI	Roof Curb [LF]	132	0.15	NEED QUOTE	$0.00	$1,653.89	0.15 MH/LF (per EA: 3 MH)
DETAI LED TAKE	Counter Flashing [LF]	132	0.06	$3.85	$508.20	$661.56	24 ga galvanized flat stock $3.85/SF at 12 in girth = $3.85/LF (girth assumed; 26 ga for residential hip/ridge/valley would be $2.61) [R2]; 0.060 MH/LF
DETAI LED	Overflow Drain MFR: ZURN #Z125 With P125-lp90 [EA]	5.5	2	$212.40	$1,168.20	$918.83	Zurn Z125-3NL $212.40 [R2]; extension/overflow accessories not priced; 2.0 MH
DETAI LED	Roof Drain MFR: ZURN #Z125 [EA]	5.5	2	$212.40	$1,168.20	$918.83	Zurn Z125-3NL $212.40 [R2]; extension/overflow accessories not priced; 2.0 MH
DETAI	(2'-6" X 2'-6") Walk pad [EA]	2.2	0.2	NEED QUOTE	$0.00	$36.75	0.20 MH
DETAI	(5'-0" X 2'-6") Walk pad [EA]	30.8	0.2	NEED QUOTE	$0.00	$514.54	0.20 MH
DETAI	(2'-6" X 3'-0") Roof Hatch [EA]	1.1	8	$3,416.49	$3,758.14	$735.06	Bilco S-50 36x30 roof hatch $3,416.49 [R1]; 8 MH
DETAI	(24'-0" H) Roof Ladder [EA]	1.1	6	NEED QUOTE	$0.00	$551.30	6.0 MH
DETAI	7.2 Metal Panel Roof [SF]	2257.2	0.03	NEED QUOTE	$0.00	$5,656.32	0.030 MH/SF
DETAI	24 GA. Downspout [LF]	39.6	0.06	NEED QUOTE	$0.00	$198.47	0.060 MH/LF
DETAI	24 GA. Gutter [LF]	63.8	0.08	$6.90	$440.22	$426.34	K&M 24 ga Kynar 6 in box gutter $68.95/10 ft [R1]; 0.08 MH/LF
DETAI	Drip Edge [LF]	63.8	0.025	$2.40	$153.12	$133.23	K&M 24 ga Kynar drip edge $23.95/10 ft [R1]; 0.025 MH/LF
DETAI	Standing Seam Metal Panel Roof [SF]	9358.8	0.04	NEED QUOTE	$0.00	$31,269.62	0.040 MH/SF
DETAI	2" Rigid Insulation [SF]	9269.7	0.005	$0.98	$9,084.31	$3,871.49	SOPRA-ISO 2 in polyiso $31.25/32 SF [R1]; 0.005 MH/SF
DETAI LED	Metal Roofing High Temperature Underlayment [SF]	9358.8	0.004	$1.28	$11,979.26	$3,126.96	Grace Ice & Water HT, high end of $1.20-$1.28/SF [R2]; 0.004 MH/SF
DETAI	Metal Flush Panel Soffit [SF]	2357.3	0.04	NEED QUOTE	$0.00	$7,876.21	0.040 MH/SF
DETAI	24 GA. Gutter [LF]	108.9	0.08	$6.90	$751.41	$727.71	K&M 24 ga Kynar 6 in box gutter $68.95/10 ft [R1]; 0.08 MH/LF
DETAI	24 GA. Downspout [LF]	35.2	0.06	NEED QUOTE	$0.00	$176.42	0.060 MH/LF
DETAI LED TAKE	Corner Trim [LF]	107.8	0.06	$3.85	$415.03	$540.27	24 ga galvanized flat stock $3.85/SF at 12 in girth = $3.85/LF (girth assumed; 26 ga for residential hip/ridge/valley would be $2.61) [R2]; 0.060 MH/LF
DETAI	Drip Edge [LF]	108.9	0.025	$2.40	$261.36	$227.41	K&M 24 ga Kynar drip edge $23.95/10 ft [R1]; 0.025 MH/LF
DETAI LED TAKE	Counter Flashing [LF]	404.8	0.06	$3.85	$1,558.48	$2,028.78	24 ga galvanized flat stock $3.85/SF at 12 in girth = $3.85/LF (girth assumed; 26 ga for residential hip/ridge/valley would be $2.61) [R2]; 0.060 MH/LF
DETAI LED	Shingle Roof [SF]	114.4	0.025	$1.20	$137.28	$238.90	GAF Timberline HDZ $110-$120/SQ, $1.20/SF used [R2]; 0.025 MH/SF
DETAI	Roofing Felt [SF]	114.4	0.003	$0.22	$25.17	$28.67	#30 felt $15.50-$22.25/SQ; $0.22/SF used [R2]; 0.003 MH/SF
DETAI	Leak Barrier [SF]	128.7	0.004	$0.86	$110.68	$43.00	GAF WeatherWatch, high end of $0.55-$0.86/SF [R2]; 0.004 MH/SF
DETAI LED	Continuous Sealant [LF]	44	0.02	$1.18	$51.92	$73.51	Sikaflex NP1 $14.12/tube at ~12 LF per tube (assumption) [R2]; 0.020 MH/LF
DETAI LED TAKE	24 GA G.S.M. Flashing [LF]	44	0.06	$3.85	$169.40	$220.52	24 ga galvanized flat stock $3.85/SF at 12 in girth = $3.85/LF (girth assumed; 26 ga for residential hip/ridge/valley would be $2.61) [R2]; 0.060 MH/LF
DETAI LED TAKE	Counter Flashing [LF]	44	0.06	$3.85	$169.40	$220.52	24 ga galvanized flat stock $3.85/SF at 12 in girth = $3.85/LF (girth assumed; 26 ga for residential hip/ridge/valley would be $2.61) [R2]; 0.060 MH/LF
DETAI LED TAKE	Reglet Flashing [LF]	44	0.06	$3.85	$169.40	$220.52	24 ga galvanized flat stock $3.85/SF at 12 in girth = $3.85/LF (girth assumed; 26 ga for residential hip/ridge/valley would be $2.61) [R2]; 0.060 MH/LF
DETAI	#8 AWG CU THHN/THWN [LF]	73.7	0.009	$0.81	$59.70	$55.41	THHN Cu #8 $0.81/ft [E1/E2]; 0.009 MH/LF
DETAI	#3 AWG CU THHN/THWN [LF]	539	0.014	$2.56	$1,379.84	$630.32	THHN Cu #3 $2.56/ft [E1/E2]; 0.014 MH/LF
DETAI	#2 AWG CU THHN/THWN [LF]	286	0.016	$3.20	$915.20	$382.23	THHN Cu #2 $3.2/ft [E1/E2]; 0.016 MH/LF

DETAILED	#1/0 CU THHN SSBJ [LF]	475.55	0.02	$4.91	$2,334.96	$794.46	XHHW-2 Cu used (THHN size not found) #1/0 $4.91/ft [E1/E2]; 0.02 MH/LF
DETAI	#300 KCMIL CU XHHN/XHWN [LF]	1138.72	0.033	$12.79	$14,564.23	$3,138.87	XHHW-2 Cu #300 $12.79/ft [E1/E2]; 0.033 MH/LF
DETAI	#500 KCMIL AL XHHN/XHWN [LF]	1902.21	0.045	$2.98	$5,668.58	$7,150.11	XHHW-2 Al #500 $2.98/ft [E1/E2]; 0.045 MH/LF
DETAI	#600 KCMIL CU XHHN/XHWN [LF]	1144	0.052	$26.99	$30,876.56	$4,969.03	XHHW-2 Cu #600 $26.99/ft [E1/E2]; 0.052 MH/LF
DETAILED	1" EMT Conduit [LF]	22.55	0.055	$1.99	$44.87	$103.60	EMT 1 in $18.69/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.99/LF; 0.055 MH/LF
DETAILED	1-1/2" EMT Conduit [LF]	51.94	0.08	$4.03	$209.33	$347.10	EMT 1-1/2 in $37.09/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $4.03/LF; 0.08 MH/LF
DETAILED	2-1/2" EMT Conduit [LF]	284.68	0.13	$7.93	$2,257.51	$3,091.31	EMT 2-1/2 in $69.05/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $7.93/LF; 0.13 MH/LF
DETAILED	4" EMT Conduit [LF]	286	0.22	$13.42	$3,838.12	$5,255.71	EMT 4 in $118.22/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $13.42/LF; 0.22 MH/LF
DETAI	4" LFMC Conduit [LF]	3.3	0.18	NEED QUOTE	$0.00	$49.62	0.18 MH/LF
DETAI	4" PVC SCH 40 Conduit [LF]	462.35	0.1	$4.04	$1,867.90	$3,862.03	PVC Sch 40 4 in $4.04/ft [E1/E2]; 0.1 MH/LF
DETAI	4" RGS Conduit [LF]	13.2	0.22	NEED QUOTE	$0.00	$242.57	0.22 MH/LF
DETAILED	Compression Lugs CU With 1- Hole, #8CU Wire Heat Shrink Tubing For #8 CU Wire [EA]	6	0.15	$5.39	$32.34	$75.18	NSI 1-hole Cu lug #8 $5.39 [E1/E2]; heat shrink not priced; 0.15 MH
DETAILED	Compression Lugs CU With 1- Hole, #3 CU Wire Heat Shrink Tubing For #3 CU Wire [EA]	26	0.3	NEED QUOTE	$0.00	$651.53	0.3 MH
DETAILED	Compression Lugs CU With 1- Hole, #2 CU Wire Heat Shrink Tubing For #2 CU Wire [EA]	2	0.3	$5.20	$10.40	$50.12	NSI 1-hole Cu lug #2 $5.2 [E1/E2]; heat shrink not priced; 0.3 MH
DETAILED TAKE	Compression Lugs CU With 1- Hole, #1/0 CU SSBJ Wire Heat Shrink Tubing For #1/0 CU SSBJ Wire [EA]	8	0.45	$12.84	$102.72	$300.71	NSI 1-hole Cu lug #1/0 $12.84 [E1/E2]; heat shrink not priced; 0.45 MH
DETAILED TAKE	Compression Lugs CU With 1- Hole, #300 KCMIL CU Wire Heat Shrink Tubing For #300 KCMIL CU Wire [EA]	8	0.6	$23.43	$187.44	$400.94	NSI 1-hole Cu lug #300 $23.43 [E1/E2]; heat shrink not priced; 0.6 MH
DETAILED TAKE	Compression Lugs CU With 1- Hole, #500 KCMIL AL Wire Heat Shrink Tubing For #500 KCMIL AL Wire [EA]	32	0.8	NEED QUOTE	$0.00	$2,138.37	0.8 MH
DETAILED TAKE	Compression Lugs CU With 1- Hole, #600 KCMIL CU Wire Heat Shrink Tubing For #600 KCMIL CU Wire [EA]	16	0.6	$117.74	$1,883.84	$801.89	NSI 1-hole Cu lug #600 $117.74 [E1/E2]; heat shrink not priced; 0.6 MH
DETAILED	(1200A, 120/208V, 3P, 4W) MLO Type 3-Section Switchboard, NEMA-1 [EA]	1	72	NEED QUOTE	$0.00	$6,014.16	Set, level, terminate 72.0 MH (judgment)
DETAI	1/2" Dia Reinforcing Rod [EA]	4	0.5	NEED QUOTE	$0.00	$167.06	Labor by judgment
DETAI	Anchor Bolts [EA]	8	0.5	NEED QUOTE	$0.00	$334.12	Labor by judgment
DETAI	Concrete Base [EA]	1	0.5	NEED QUOTE	$0.00	$41.77	Labor by judgment
DETAI	RMC Long Sweep Elbows [EA]	2	1.5	NEED QUOTE	$0.00	$250.59	1.5 MH
DETAI	6"x6"- W4.5x4.5 Welded Wire Fabric [EA]	2	0.5	NEED QUOTE	$0.00	$83.53	Labor by judgment
DETAILED TAKE	L1: (100A, 120/208V, 3P, 4W) 100A MCB Panel, Surface Mounted, NEMA-1 MFR: SQUARE D QMB, I-LINE [EA]	1	11	NEED QUOTE	$0.00	$918.83	Set, level, terminate 11.0 MH (judgment)
DETAILED TAKE	T1: (100A, 120/208V, 3P, 4W) 100A MCB Panel, Surface Mounted, NEMA-1 MFR: SQUARE D QMB, I-LINE [EA]	1	11	NEED QUOTE	$0.00	$918.83	Set, level, terminate 11.0 MH (judgment)
DETAILED TAKE	P1: (400A, 120/208V, 3P, 4W) 400A MCB Panel, Surface Mounted, NEMA-1 MFR: SQUARE D QMB, I-LINE [EA]	1	20	NEED QUOTE	$0.00	$1,670.60	Set, level, terminate 20.0 MH (judgment)
DETAILED TAKE	P2: (225A, 120/208V, 3P, 4W) 225A MCB Panel, Surface Mounted, NEMA-1 MFR: SQUARE D QMB, I-LINE [EA]	1	14.75	NEED QUOTE	$0.00	$1,232.07	Set, level, terminate 14.8 MH (judgment)
DETAILED	LCP: (100A, 120V, 1P, 2W) 100A MCB Lighting Control Panel [EA]	1	11	NEED QUOTE	$0.00	$918.83	Set, level, terminate 11.0 MH (judgment)
DETAILED	(15A, 1P) Circuit Breaker [EA]	8	0.3	$19.86	$158.88	$200.47	Square D QO115 $19.86 [E1/E2]; voltage class per 120/208V assumption; 0.3 MH
DETAILED	(15A, 2P) Circuit Breaker [EA]	12	0.4	$45.72	$548.64	$400.94	Square D QO215 $45.72 [E1/E2]; voltage class per 120/208V assumption; 0.4 MH
DETAILED	(20A, 1P) Circuit Breaker [EA]	68	0.3	$19.86	$1,350.48	$1,704.01	Square D QO120 $19.86 [E1/E2]; voltage class per 120/208V assumption; 0.3 MH
DETAILED	(20A, 1P) Circuit Breaker GFCI [EA]	1	0.3	$159.03	$159.03	$25.06	Square D QO120GFI $159.03 [E1/E2]; voltage class per 120/208V assumption; 0.3 MH
DETAILED	(20A, 2P) Circuit Breaker [EA]	11	0.4	$45.72	$502.92	$367.53	Square D QO220 $45.72 [E1/E2]; voltage class per 120/208V assumption; 0.4 MH

DETAILED	(25A, 2P) Circuit Breaker [EA]	1	0.4	$55.02	$55.02	$33.41	Square D QO225 $55.02 [E1/E2]; voltage class per 120/208V assumption; 0.4 MH
DETAILED	(30A, 2P) Circuit Breaker [EA]	2	0.4	$45.72	$91.44	$66.82	Square D QO230 $45.72 [E1/E2]; voltage class per 120/208V assumption; 0.4 MH
DETAILED	(35A, 2P) Circuit Breaker [EA]	1	0.4	$45.72	$45.72	$33.41	Square D QO235 $45.72 [E1/E2]; voltage class per 120/208V assumption; 0.4 MH
DETAILED	(40A, 2P) Circuit Breaker [EA]	2	0.4	$45.72	$91.44	$66.82	Square D QO240 $45.72 [E1/E2]; voltage class per 120/208V assumption; 0.4 MH
DETAI	(45A, 3P) HACR Circuit Breaker [EA]	1	0.6	NEED QUOTE	$0.00	$50.12	0.6 MH
DETAILED	(50A, 2P) Circuit Breaker [EA]	1	0.4	$45.72	$45.72	$33.41	Square D QO250 $45.72 [E1/E2]; voltage class per 120/208V assumption; 0.4 MH
DETAILED	(50A, 3P) HACR Circuit Breaker [EA]	1	0.6	$104.52	$104.52	$50.12	Square D QO350 (240V) $104.52 [E1/E2]; voltage class per 120/208V assumption; 0.6 MH
DETAILED	(60A, 3P) HACR Circuit Breaker [EA]	2	0.6	$169.26	$338.52	$100.24	Square D QO360 (240V) $169.26 [E1/E2]; voltage class per 120/208V assumption; 0.6 MH
DETAI	(100A, 3P) Main Circuit Breaker [EA]	3	0.6	NEED QUOTE	$0.00	$150.35	0.6 MH
DETAI	(225A, 3P) Main Circuit Breaker [EA]	1	1.5	NEED QUOTE	$0.00	$125.30	1.5 MH
DETAI	(400A, 3P) Main Circuit Breaker [EA]	2	3	NEED QUOTE	$0.00	$501.18	3.0 MH
DETAILED	400A Fused Disconnect Switch [EA]	1	8	$2,585.31	$2,585.31	$668.24	Square D H32x 400A 240V $2585.31 [E1/E2]; fuses not priced; 8.0 MH
DETAI	(500KVA, 120/208:120/208V) Transformer [EA]	1	36	NEED QUOTE	$0.00	$3,007.08	Set, level, terminate 36.0 MH (judgment)
DETAILED	1/2" x 10' Ground Rod By Utility Company [EA]	2	0	$0.00	$0.00	$0.00	By others per takeoff description
DETAI	#2/0 Bare CU Bu Utility Company [LF]	11	0.022	$4.77	$52.47	$20.21	bare Cu #2/0 $4.77/ft [E1/E2]; 0.022 MH/LF
DETAILED	6x6-4.5x4.5 Welded Wire Fabric Pad Reinforcement [EA]	3	0.5	NEED QUOTE	$0.00	$125.30	Labor by judgment
DETAI	36" Radius RMC 90 Deg Elbows [EA]	5	1.5	NEED QUOTE	$0.00	$626.48	1.5 MH
DETAI	#6 Bare CU Grounding Wire in 3/4" HWPVC Conduit [LF]	33	0.046	$1.52	$50.16	$126.80	bare Cu #6 $1.07/ft + 3/4 in PVC $0.45/ft [E1/E2]; 0.046 MH/LF
DETAILED	#4 AWG CU Grounding Wire Concrete Encased Electrode [LF]	22	0.013	$2.03	$44.66	$23.89	THHN Cu #4 $2.03/ft [E1/E2]; 0.013 MH/LF (insulated/bare not stated; THHN price used)
DETAILED	#4 AWG CU Grounding Wire for Metal Frame of Building or Structure [LF]	22	0.013	$2.03	$44.66	$23.89	THHN Cu #4 $2.03/ft [E1/E2]; 0.013 MH/LF (insulated/bare not stated; THHN price used)
DETAILED	#4 AWG CU Grounding Wire for Metal Underground Water Pipe [LF]	22	0.013	$2.03	$44.66	$23.89	THHN Cu #4 $2.03/ft [E1/E2]; 0.013 MH/LF (insulated/bare not stated; THHN price used)
DETAILED	#4 CU Grounding Electrode Conductor [LF]	22	0.013	$2.03	$44.66	$23.89	THHN Cu #4 $2.03/ft [E1/E2]; 0.013 MH/LF (insulated/bare not stated; THHN price used)
DETAILED	#4 Insulated Copper Grounding Wire [LF]	22	0.013	$2.03	$44.66	$23.89	THHN Cu #4 $2.03/ft [E1/E2]; 0.013 MH/LF (insulated/bare not stated; THHN price used)
DETAI	#1/0 Bonding Jumper [EA]	1	0.5	NEED QUOTE	$0.00	$41.77	0.5 MH
DETAILED	#1/0 CU Equipment Bonding Jumper if Metallic Conduit [EA]	4	0.5	NEED QUOTE	$0.00	$167.06	0.5 MH
DETAILED	#3/0 CU Grounding Electrode Conductor [LF]	66	0.025	$6.61	$436.26	$137.82	THHN Cu #3/0 $6.61/ft [E1/E2]; 0.025 MH/LF (insulated/bare not stated; THHN price used)
DETAILED	#4/0 AWG CU Grounding Wire [LF]	33	0.028	$8.71	$287.43	$77.18	THHN Cu #4/0 $8.71/ft [E1/E2]; 0.028 MH/LF (insulated/bare not stated; THHN price used)
DETAILED	#4/0 CU Grounding Electrode Conductor [LF]	22	0.028	$8.71	$191.62	$51.45	THHN Cu #4/0 $8.71/ft [E1/E2]; 0.028 MH/LF (insulated/bare not stated; THHN price used)
DETAI	#4/0 Ground Ring Encircling Structure [EA]	2	0.5	NEED QUOTE	$0.00	$83.53	0.5 MH
DETAI	3/4" x 10' CU Copper Rod [EA]	3	1.5	$80.57	$241.71	$375.88	Erico 613400 3/4x10 $80.57 [E1]; 1.5 MH
DETAILED	1/4" x 2" x24" Ground Bar, HARGER GBI SERIES [EA]	1	0.5	NEED QUOTE	$0.00	$41.77	0.5 MH
DETAILED	Insulator, Molded Polyester Fiberglass For Grounding Bar [EA]	2	0.5	NEED QUOTE	$0.00	$83.53	0.5 MH
DETAI	Brackets And Bonding For Grounding Bar [EA]	2	0.5	NEED QUOTE	$0.00	$83.53	0.5 MH
DETAI	5/8" x 10' CU Clad Steel Ground Rod [EA]	1	1.5	$50.91	$50.91	$125.30	Erico 615800 5/8x10 $50.91 [E2]; 1.5 MH
DETAI	Meter [EA]	1	2	NEED QUOTE	$0.00	$167.06	Set, level, terminate 2.0 MH (judgment)
DETAI	#12 AWG CU THHN/THWN [LF]	15263.6	0.006	$0.29	$4,426.44	$7,649.81	THHN Cu #12 $0.29/ft [E1/E2]; 0.006 MH/LF
DETAI	#10 AWG CU THHN/THWN [LF]	16754.1	0.007	$0.44	$7,371.80	$9,796.29	THHN Cu #10 $0.44/ft [E1/E2]; 0.007 MH/LF
DETAI	#8 AWG CU THHN/THWN [LF]	3554.1	0.009	$0.81	$2,878.82	$2,671.87	THHN Cu #8 $0.81/ft [E1/E2]; 0.009 MH/LF
DETAI	#6 AWG CU THHN/THWN [LF]	907.5	0.011	$1.25	$1,134.38	$833.84	THHN Cu #6 $1.25/ft [E1/E2]; 0.011 MH/LF
DETAILED	3/4" EMT Conduit [LF]	11689.7	0.045	$1.11	$12,975.57	$43,939.83	EMT 3/4 in $10.31/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.11/LF; 0.045 MH/LF
DETAI	3/4" LFMC Conduit [LF]	29.7	0.08	$2.96	$87.91	$198.47	UL liquidtight 3/4 in $2.96/ft [E2]; 0.08 MH/LF
DETAI	3/4" PVC SCH 40 Conduit [LF]	55	0.035	$0.45	$24.75	$160.80	PVC Sch 40 3/4 in $0.45/ft [E1/E2]; 0.035 MH/LF

DETAI	3/4" RGS Conduit [LF]	19.8	0.22	NEED QUOTE	$0.00	$363.86	0.22 MH/LF
DETAI	1/2" Flexible Conduit [LF]	9.9	0.05	$1.21	$11.98	$41.35	Steel flex 1/2 in $1.21/ft [E2]; 0.05 MH/LF
DETAI LED	Compression Lugs CU With 1- Hole, #8CU Wire Heat Shrink Tubing For #8 CU Wire [EA]	12	0.15	$5.39	$64.68	$150.35	NSI 1-hole Cu lug #8 $5.39 [E1/E2]; heat shrink not priced; 0.15 MH
DETAI LED	Compression Lugs CU With 1- Hole, #6 CU Wire Heat Shrink Tubing For #6 CU Wire [EA]	6	0.15	$4.63	$27.78	$75.18	NSI 1-hole Cu lug #6 $4.63 [E1/E2]; heat shrink not priced; 0.15 MH
DETAI LED	(15A, 1P) Duplex Receptacle AFI [EA]	23	0.6	$19.69	$452.87	$1,152.71	Spec-grade 20A duplex P&S 5362W $8.09 + box/ring/plate [E2]; 0.6 MH
DETAI LED	(15A, 1P) Duplex Receptacle Tamper Resistant [EA]	5	0.6	$19.69	$98.45	$250.59	Spec-grade 20A duplex P&S 5362W $8.09 + box/ring/plate [E2]; 0.6 MH
DETAI LED	(15A, 1P) Double Duplex Receptacle Tamper Resistant GFCI [EA]	1	0.7	$49.43	$49.43	$58.47	Eaton SGFH20W GFCI $37.83 + box/ring/plate [E1]; 0.7 MH
DETAI LED	(20A, 1P) Simplex Receptacle NEMA 5-20R MFR: HUBBELL HBL5361 [EA]	7	0.7	$41.61	$291.27	$409.30	Hubbell receptacle (HBL5361) $30.01 + box/ring/plate [E1/E2]; 0.7 MH
DETAI LED	Simplex Receptacle NEMA 6-50R MFR: HUBBELL HBL9367 [EA]	1	0.7	$61.31	$61.31	$58.47	Hubbell receptacle (6-50) $49.71 + box/ring/plate [E1/E2]; 0.7 MH
DETAI LED	(20A, 1P) Duplex Receptacle AFI MFR: HUBBELL [EA]	10	0.6	$19.69	$196.90	$501.18	Spec-grade 20A duplex P&S 5362W $8.09 + box/ring/plate [E2]; 0.6 MH
DETAI LED	(20A, 1P) Duplex Receptacle GFCI WP NEMA-3R MFR: HUBBELL [EA]	5	0.7	$62.73	$313.65	$292.35	Eaton SGFH20W GFCI $37.83 + box/ring/plate [E1]; 0.7 MH
DETAI LED	(20A, 1P) Duplex Receptacle Tamper Resistant MFR: HUBBELL BR20TR [EA]	49	0.6	$19.69	$964.81	$2,455.78	Spec-grade 20A duplex P&S 5362W $8.09 + box/ring/plate [E2]; 0.6 MH
DETAI LED	(20A, 1P) Duplex Receptacle Tamper Resistant GFCI MFR: HUBBELL [EA]	3	0.7	$49.43	$148.29	$175.41	Eaton SGFH20W GFCI $37.83 + box/ring/plate [E1]; 0.7 MH
DETAI LED	(20A, 1P) Double Duplex Receptacle Surface Mounted MFR: HUBBELL [EA]	9	0.6	$19.69	$177.21	$451.06	Spec-grade 20A duplex P&S 5362W $8.09 + box/ring/plate [E2]; 0.6 MH
DETAI LED	(20A, 1P) Double Duplex Receptacle Tamper Resistant MFR: HUBBELL [EA]	11	0.6	$19.69	$216.59	$551.30	Spec-grade 20A duplex P&S 5362W $8.09 + box/ring/plate [E2]; 0.6 MH
DETAI LED	(20A, 1P) Double Duplex Receptacle Tamper Resistant GFCI MFR: HUBBELL [EA]	15	0.7	$49.43	$741.45	$877.06	Eaton SGFH20W GFCI $37.83 + box/ring/plate [E1]; 0.7 MH
DETAI LED	(20A, 1P) Double Duplex Receptacle WP GFCI NEMA 4X MFR: HUBBELL [EA]	5	0.7	$62.73	$313.65	$292.35	Eaton SGFH20W GFCI $37.83 + box/ring/plate [E1]; 0.7 MH
DETAI LED	(20A, 1P) Electrical Floor Box MFR: STEEL CITY, PT-7006 [EA]	6	1	NEED QUOTE	$0.00	$501.18	Fallback: labor by judgment
DETAI	(15A, 1P) Equipment Connection [EA]	6	1.5	NEED QUOTE	$0.00	$751.77	Connection labor 1.5 MH
DETAI	(15A, 2P) Equipment Connection [EA]	4	1.5	NEED QUOTE	$0.00	$501.18	Connection labor 1.5 MH
DETAI	(15A, 3P) Equipment Connection [EA]	8	1.5	NEED QUOTE	$0.00	$1,002.36	Connection labor 1.5 MH
DETAI	(20A, 1P) Equipment Connection [EA]	32	1.5	NEED QUOTE	$0.00	$4,009.44	Connection labor 1.5 MH
DETAI	(20A, 2P) Equipment Connection [EA]	10	1.5	NEED QUOTE	$0.00	$1,252.95	Connection labor 1.5 MH
DETAI	(25A, 2P) Equipment Connection [EA]	1	1.5	NEED QUOTE	$0.00	$125.30	Connection labor 1.5 MH
DETAI	(30A, 2P) Equipment Connection [EA]	2	1.5	NEED QUOTE	$0.00	$250.59	Connection labor 1.5 MH
DETAI	(35A, 2P) Equipment Connection [EA]	1	2.5	NEED QUOTE	$0.00	$208.82	Connection labor 2.5 MH
DETAI	(45A, 3P) Equipment Connection [EA]	1	2.5	NEED QUOTE	$0.00	$208.82	Connection labor 2.5 MH
DETAI	(50A, 3P) Equipment Connection [EA]	1	2.5	NEED QUOTE	$0.00	$208.82	Connection labor 2.5 MH
DETAI	(60A, 3P) Equipment Connection [EA]	2	2.5	NEED QUOTE	$0.00	$417.65	Connection labor 2.5 MH
DETAI LED	Saw Cut & Repair Concrete Floor For Conduit Installation [LF]	55	0.5	NEED QUOTE	$0.00	$2,297.07	0.5 MH/LF
DETAI	Junction Box [EA]	6	0.5	$10.34	$62.04	$250.59	RACO 232 4 in sq box $9.28 + blank cover $1.06 [E2]; 0.5 MH
DETAI	#12 AWG CU THHN/THWN [LF]	821.7	0.006	$0.29	$238.29	$411.82	THHN Cu #12 $0.29/ft [E1/E2]; 0.006 MH/LF
DETAI	#12 Gauge Slack Safety wire [LF]	118.8	0.006	$0.29	$34.45	$59.54	THHN Cu #12 $0.29/ft [E1/E2]; 0.006 MH/LF
DETAI	#12 Hanging Wire [LF]	1161.6	0.006	$0.29	$336.86	$582.17	THHN Cu #12 $0.29/ft [E1/E2]; 0.006 MH/LF
DETAI	#10 AWG CU THHN/THWN [LF]	11784.3	0.007	$0.44	$5,185.09	$6,890.40	THHN Cu #10 $0.44/ft [E1/E2]; 0.007 MH/LF
DETAI	#8 AWG CU THHN/THWN [LF]	1346.4	0.009	$0.81	$1,090.58	$1,012.18	THHN Cu #8 $0.81/ft [E1/E2]; 0.009 MH/LF
DETAI LED	3/4" EMT Conduit [LF]	4261.4	0.045	$1.11	$4,730.15	$16,017.96	EMT 3/4 in $10.31/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.11/LF; 0.045 MH/LF
DETAI	Flexible Conduit (For Exit Sign) [LF]	83.6	0.15	NEED QUOTE	$0.00	$1,047.47	0.15 MH/LF
DETAI LED	EM1: Emergency Unit - 2 Head MFR: LITHONIA MODEL: ELM6L UVOLT LTP WATTS: 3/FIX [EA]	12	1	NEED QUOTE	$0.00	$1,002.36	1.0 MH install
DETAI LED	EM2: Emergency Unit MFR: LITHONIA MODEL: ELM6L UVOLT LTP WATTS: 3/FIX [EA]	6	1	NEED QUOTE	$0.00	$501.18	1.0 MH install
DETAI LED	EX1: Single-Face Exit Sign MFR: LITHONIA MODEL: EDG W 1 RW EL WATTS: 3/FIX [EA]	17	0.8	NEED QUOTE	$0.00	$1,136.01	0.8 MH install
DETAI LED	EX2: Double-Face Exit Sign MFR: LITHONIA MODEL: EDG W 2 RW EL WATTS: 3/FIX [EA]	2	0.8	NEED QUOTE	$0.00	$133.65	0.8 MH install

DETAILED TAKE	F1: Standard Downlight MFR: LITHONIA MODEL: LDN6 AL01 SWW1 L06 AR LD MVOLT UGZ WATTS: 25/FIX [EA]	65	0.8	NEED QUOTE	$0.00	$4,343.56	0.8 MH install
DETAILED TAKE	F2: LED Flat Panel 2X2 MFR: LITHONIA MODEL: CPX 2X2 AL07 80CRI SWW7 SWL MVOLT WATTS: 33/FIX [EA]	36	14	NEED QUOTE	$0.00	$42,099.12	Set, level, terminate 14.0 MH (judgment)
DETAILED TAKE	F3: LED Flat Panel 2X4 MFR: LITHONIA MODEL: CPX 2X4 AL08 80CRI SWW7 SWL MVOLT WATTS: 45/FIX [EA]	3	14	NEED QUOTE	$0.00	$3,508.26	Set, level, terminate 14.0 MH (judgment)
DETAILED	F4: Wraparound MFR: LITHONIA BLWP4 MODEL: 30L ADP GZ10 LP840 WATTS: 25/FIX [EA]	31	1	NEED QUOTE	$0.00	$2,589.43	1.0 MH install
DETAILED	F5: Wall Sconce MFR: BRINK ALERT MODEL: CDLK10-1 WATTS: 30/FIX [EA]	8	1	NEED QUOTE	$0.00	$668.24	1.0 MH install
DETAILED TAKE	F6: Linear LED System Recessed MFR: LITHONIA MODEL: CLX L48 3000LM HEF RDL MVOLT GZ10 40K 80CRI WATTS: 6/FT [EA]	5	1	NEED QUOTE	$0.00	$417.65	1.0 MH install
DETAILED TAKE	F7: Linear LED System Recessed MFR: BASO MODEL: PANO 5.25-WWG-BL-PS-OP-40K-C80-UNV-010V-077 5LF-ST-04FT WATTS: [EA]	24	1.5	NEED QUOTE	$0.00	$3,007.08	1.5 MH install
DETAILED TAKE	F8: High Bay MFR: LITHONIA MODEL: CPHB 24000LM HEF GCL MD MVOLT GZ10 40K 90CRI WATTS: 150/FIX [EA]	15	2	NEED QUOTE	$0.00	$2,505.90	2.0 MH install
DETAILED TAKE	F8E: High Bay MFR: LITHONIA MODEL: CPHB 24000LM HEF GCL MD MVOLT GZ10 40K 90CRI E15WMCP WATTS: 150/FIX [EA]	5	2	NEED QUOTE	$0.00	$835.30	2.0 MH install
DETAILED TAKE	F9: Ceiling Fan With Integral Light MFR: BIG ASS FAN MODEL: FR127C-U1H00-3L02-09258-533P610 WATTS: 20/FIX [EA]	5	1	NEED QUOTE	$0.00	$417.65	1.0 MH install
DETAILED TAKE	F10: Standard Downlight MFR: LITHONIA MODEL: LDN4 AL01 27K L04 AR LD MVOLT UGZ WATTS: 13/FIX [EA]	20	0.8	NEED QUOTE	$0.00	$1,336.48	0.8 MH install
DETAILED TAKE	F11: LED System Pendant Cylinder MFR: LITHONIA MODEL: LDN6CYL 40/15 L06 AR LD MVOLT GZ10 PM WATTS: 18/FIX [EA]	3	1	NEED QUOTE	$0.00	$250.59	1.0 MH install
DETAILED TAKE	F12: Under Canopy Low Bay MFR: LITHONIA MODEL: CSVT L48 4000LM MVOLT 40K 80CRI WATTS: 34/FIX [EA]	12	1	NEED QUOTE	$0.00	$1,002.36	1.0 MH install
DETAILED TAKE	F13: Linear LED System Recessed MFR: LITHONIA MODEL: CSVT L48 3000LM MVOLT 40K 80CRI WATTS: 24/FT [LF]	8.8	0.15	NEED QUOTE	$0.00	$110.26	0.15 MH/LF
DETAILED TAKE	X2: WM_WALL Pack MFR: LITHONIA MODEL: WEDGE2 LED P2 40K 80CRI VW MVOLT SRM WATTS: 10/FIX [EA]	16	1	NEED QUOTE	$0.00	$1,336.48	1.0 MH install
DETAILED TAKE	X4: Wall Sconce MFR: LITHONIA MODEL: WMCL6 P1 SWW2 A75 UVOLT PE DDBXD M4 WATTS: 31/FIX [EA]	7	1	NEED QUOTE	$0.00	$584.71	1.0 MH install
DETAILED TAKE	X5: Wall Wash Ground Light MFR: LITHONIA MODEL: SAF7 LED P1 80CRI 40K MVOLT 30DEG CWL KM WATTS: 33/FIX [EA]	5	1	NEED QUOTE	$0.00	$417.65	1.0 MH install
DETAILED TAKE	X8: Tape Light (cove) MFR: JUNO MODEL: JFX 24V 200LM 100FT 40K 90CRI WL WATTS: 2/FT [LF]	127.6	0.15	NEED QUOTE	$0.00	$1,598.76	0.15 MH/LF
DETAILED	Occupancy Sensor MFR: WATT STOPPER WT-2250 [EA]	19	0.75	$180.00	$3,420.00	$1,190.30	WattStopper WT-2250 (discontinued; surplus price) $180.0 [E1/E2]; 0.75 MH
DETAIL	Dimming Switch MFR: LUTRON [EA]	15	0.75	NEED QUOTE	$0.00	$939.71	0.75 MH install
DETAIL	Single Pole Switch MFR: Hubbell HBL1221 [EA]	5	0.5	$48.32	$241.60	$208.82	Hubbell HBL1221W $36.72 + box/ring/plate [E1]; 0.5 MH
DETAIL	Occupancy Sensor Switch MFR: HUBBELL [EA]	30	0.75	NEED QUOTE	$0.00	$1,879.42	0.75 MH install
DETAIL	3-Way Dimming Switch MFR: HUBBELL [EA]	2	0.5	$48.32	$96.64	$83.53	Hubbell HBL1221W $36.72 + box/ring/plate [E1]; 0.5 MH
DETAILED	Photocell MFR: PARAGON TWISTLOCK SERIES [EA]	1	1	NEED QUOTE	$0.00	$83.53	1.0 MH install
DETAIL	#10 AWG CU THHN/THWN [LF]	1641.29	0.007	$0.44	$722.17	$959.68	THHN Cu #10 $0.44/ft [E1/E2]; 0.007 MH/LF
DETAILED	3/4" EMT Conduit [LF]	39.45	0.045	$1.11	$43.79	$148.27	EMT 3/4 in $10.31/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.11/LF; 0.045 MH/LF
DETAIL	3/4" PVC SCH 40 Conduit [LF]	375.65	0.035	$0.45	$169.04	$1,098.23	PVC Sch 40 3/4 in $0.45/ft [E1/E2]; 0.035 MH/LF
DETAILED	Excavation & Backfilling (2' Deep x 1' Wide Trench) [LF]	561	0.06	NEED QUOTE	$0.00	$2,811.62	0.06 MH/LF machine trench and backfill

DETAILED TAKE	X1: Area Light Square MFR: LITHONIA MODEL: DSX1 LED P1 40K 80CRI T3M MVOLT HS WATTS: 51/FIX [EA]	6	1	NEED QUOTE	$0.00	$501.18	1.0 MH install
DETAI	20' Lighting Pole [EA]	6	8	NEED QUOTE	$0.00	$4,009.44	8.0 MH set pole
DETAI	Anchor Bolt [EA]	24	0.5	NEED QUOTE	$0.00	$1,002.36	Labor by judgment
DETAI	Exothermic Weld [EA]	6	0.5	$31.96	$191.76	$250.59	Cadweld #115 shot $31.96 (mold not priced) [E1]; 0.5 MH
DETAILED	#6 Bare Stranded CU Bonding Conductor W/ 1/2" PVC Sleeve [LF]	66	0.011	$1.07	$70.62	$60.64	bare Cu #6 $1.07/ft [E1/E2]; 0.011 MH/LF
DETAILED	6" Loop, #6 Bare Stranded CU Bonding Conductor [EA]	6	0.5	NEED QUOTE	$0.00	$250.59	Labor by judgment
DETAI	5/8" x 10' CU Clad Steel Ground Rod [EA]	6	1.5	$50.91	$305.46	$751.77	Erico 615800 5/8x10 $50.91 [E2]; 1.5 MH
DETAI	Concrete Base [EA]	6	0.5	NEED QUOTE	$0.00	$250.59	Labor by judgment
DETAI	Insulated Bushing Termination [EA]	12	0.1	NEED QUOTE	$0.00	$100.24	0.1 MH
DETAI	Anchor Bolt Cover [EA]	12	0.5	NEED QUOTE	$0.00	$501.18	Labor by judgment
DETAI	#4 Ties W/ 90 Deg Hooks [EA]	18	0.5	NEED QUOTE	$0.00	$751.77	Labor by judgment
DETAILED	Curved Lid Junction Box (MFR: CARLON, E88C24) W/ LV Driver And WP GFCI Receptacle [EA]	6	0.7	$62.73	$376.38	$350.83	Eaton SGFH20W GFCI $37.83 + box/ring/plate [E1]; 0.7 MH
DETAI	#10 AWG CU THHN/THWN [LF]	156.2	0.007	$0.44	$68.73	$91.33	THHN Cu #10 $0.44/ft [E1/E2]; 0.007 MH/LF
DETAI	#8 AWG CU THHN/THWN [LF]	312.4	0.009	$0.81	$253.04	$234.85	THHN Cu #8 $0.81/ft [E1/E2]; 0.009 MH/LF
DETAILED	3/4" EMT Conduit [LF]	26.4	0.045	$1.11	$29.30	$99.23	EMT 3/4 in $10.31/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.11/LF; 0.045 MH/LF
DETAI	3/4" PVC SCH 40 Conduit [LF]	129.8	0.035	$0.45	$58.41	$379.48	PVC Sch 40 3/4 in $0.45/ft [E1/E2]; 0.035 MH/LF
DETAILED	Compression Lugs CU With 1- Hole, #8CU Wire Heat Shrink Tubing For #8 CU Wire [EA]	8	0.15	$5.39	$43.12	$100.24	NSI 1-hole Cu lug #8 $5.39 [E1/E2]; heat shrink not priced; 0.15 MH
DETAILED	Electrical Vehicle Charging Station MFR: LEVITON EVR GREEN 4000 [EA]	2	2	NEED QUOTE	$0.00	$334.12	2.0 MH install
DETAILED	3/4" EMT Conduit With Pull String [LF]	158.4	0.045	$1.11	$175.82	$595.40	EMT 3/4 in $10.31/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.11/LF; 0.045 MH/LF
DETAILED	Data Outlet [EA]	10	0.5	$7.74	$77.40	$417.65	4 in sq box + 1-gang ring (rough-in only) [E1]; 0.5 MH; jacks/cabling by others
DETAILED	TV Antenna Outlet [EA]	4	0.5	$7.74	$30.96	$167.06	4 in sq box + 1-gang ring (rough-in only) [E1]; 0.5 MH; jacks/cabling by others
DETAILED TAKE	Allowance For Complete Fire Alarm Devices With Associated Wiring And Conduit In This Area (16720 SF) [LS]	1	0.75	NEED QUOTE	$0.00	$62.65	0.75 MH install
DETAI	Fire Alarm Control Panel [EA]	1	16	NEED QUOTE	$0.00	$1,336.48	16.0 MH install