PROPOSAL SUMMARY
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

Project:	CALIBER COLLISION
Address:	A1.47 ACRES OF LAND OUT OF LOT 6, BLOCK 1, LAKEVIEW ADDITION ROWLETT, TX
Scope:	ELECTRICAL
No. of Floors:	1
Gross Area: (SF)	17572.00
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
DIV-01	GENERAL REQUIREMENTS	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$ -
DIV-26	ELECTRICAL	#########	$ 95,411.95	$ 12,334.96	$ 9,216.79	$ -	$ 266,478.41	$ 26,647.84	$ 26,647.84	$ 357.39	$ 320,131.48
DIV-27	COMMUNICATION	$ 1,085.98	$ 1,978.80	$ 89.59	$ 191.15	$ -	$ 3,345.53	$ 334.55	$ 334.55	$ 190.61	$ 4,205.25
DIV-28	ELECTRONIC SAFETY & SECURITY	$ 6,474.80	$ 4,803.09	$ 534.17	$ 463.98	$ -	$ 12,276.04	$ 1,227.60	$ 1,227.60	$ -	$ 14,731.25
DIV-33	UTILITIES	$ 6,425.20	$ 12,329.38	$ 530.08	$ 1,191.02	$ -	$ 20,475.68	$ 2,047.57	$ 2,047.57	$ -	$ 24,570.81
	TOTAL	$ 163,501	$ 114,523	$ 13,489	$ 11,063		$ 302,576	$ 30,258	$ 30,258	$ 548	$ 363,639

BID SUMMARY			
1	TOTAL MATERIAL COST		$ 163,501
	MATERIAL SALES TAX	8%	$ 13,489
	JOB EXPENSE		
2	TOTAL LABOR COST		$ 114,523
	LABOR TAX	10%	$ 11,063
3	TOTAL COST		$ 302,576
	OVERHEADS @	10%	$ 30,258
	PROFIT @	10%	$ 30,258
4	TOTAL COST W/ OVERHEADS + PROFIT		$ 363,091
	BOND & INSURANCE	0%	$ -
	PROJECT SUPERVISION & PROJECT MANAGEMENT		$ -
	SUBMITTALS, SAMPLES, SHOP DRAWINGS, SITE SAFETY PLAN, ETC.		$ 739
	TEMPORARY FACILITIES & CONTROLS		$ -
	PROJECT SCHEDULE (Primavera P3 or P6)		$ -
	OFFICE OVERHEADS		$ -
	CLOSEOUT PROCEDURES		$ 739
	PERMITS		$ -
	ALLOWANCES		$ -
	MOBILIZATION / DEMOBILIZATION		$ 859
	SUB-CONTRACTS		$ -
	BOND PREMIUM	0%	$ -
5	BASE BID PRICE		$ 365,428

MAN-LOADING AND SUPERVISION ANALYSIS				
1	TOTAL MANHOURS WITH SUPERVISION			3,550
2	NUMBER OF MAN-DAYS			443.75
3	MAN LOAD			5
4	JOURNEYMAN RATE	3		$ 32.63
5	SUPERVISOR RATE	1		$ 42.15
6	UNSKILLED LABOR RATE	1		$ 24.60
7	COMPOSITE LABOR RATE			$ 32.93
8	WAGE RATE			$ -

INSERT VALUES IN RESPECTIVE HIGHLIGHTED CELLS WHERE APPLICABLE

FEDES

DETAILED TAKEOFF / ESTIMATE
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

FEDES

Project Name	CALIBER COLLISION	PROJECT COST	$ 302,576
Location	A1.47 ACRES OF LAND OUT OF LOT 6, BLOCK 1, LAKEVIEW ADDITION ROWLETT, TX	OVERHEAD COST	$ 30,258
Project Scope:	ELECTRICAL	PROFIT COST	$ 30,258
Addendum:	N/A	ADDITIONAL COST (If Any)	$ 2,337
Date:	Tuesday, November 3, 2026	**TOTAL BID COST**	**$ 365,428**
	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	$ 24.31			
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 SERVICES SUBGROUP WORK														
		DIV-26	**ELECTRICAL**										Labor Rate	$ 32.92			
			DISTRIBUTION														
			Feeder Conductors														
7	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#6 AWG CU THHN	55	LF	10%	60.50	0.011	0.7	$ 1.25	$ 75.63	$ -	$ -	$ 0.36	$ 21.91	$ 97.53	
8	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#3 AWG CU THHN	420	LF	10%	462.00	0.014	6.5	$ 2.56	$ 1,182.72	$ -	$ -	$ 0.46	$ 212.93	$ 1,395.65	
9	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#1 AWG CU THHN	80	LF	10%	88.00	0.018	1.6	$ 3.78	$ 332.64	$ -	$ -	$ 0.59	$ 52.15	$ 384.79	
10	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#1/0 AWG CU XHHN	90	LF	10%	99.00	0.020	2.0	$ 4.91	$ 486.09	$ -	$ -	$ 0.66	$ 65.18	$ 551.27	
11	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#3/0 AWG CU XHHN	50	LF	10%	55.00	0.025	1.4	$ 6.61	$ 363.55	$ -	$ -	$ 0.82	$ 45.27	$ 408.82	
12	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#4/0 AWG CU XHHN	465	LF	10%	511.50	0.028	14.3	$ 10.09	$ 5,161.04	$ -	$ -	$ 0.92	$ 471.48	$ 5,632.52	
13	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#250 MCM CU XHWN	1680	LF	10%	1848.00	0.030	55.4	$ 11.63	$ 21,492.24	$ -	$ -	$ 0.99	$ 1,825.08	$ 23,317.32	
14	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#500 MCM CU XHWN	1296	LF	10%	1425.60	0.045	64.2	$ 19.99	$ 28,497.74	$ -	$ -	$ 1.48	$ 2,111.88	$ 30,609.63	
			Feeder Conduits														
15	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1-1/2" EMT Conduit	20	LF	10%	22.07	0.080	1.8	$ 4.03	$ 88.93	$ -	$ -	$ 2.63	$ 58.11	$ 147.04	
16	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	2-1/2" EMT Conduit	125	LF	10%	137.50	0.130	17.9	$ 7.93	$ 1,090.38	$ -	$ -	$ 4.28	$ 588.45	$ 1,678.82	
17	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3" EMT Conduit	223	LF	10%	244.78	0.160	39.2	$ 9.93	$ 2,430.70	$ -	$ -	$ 5.27	$ 1,289.32	$ 3,720.02	
18	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	4" EMT Conduit	50	LF	10%	55.00	0.220	12.1	$ 13.42	$ 738.10	$ -	$ -	$ 7.24	$ 398.33	$ 1,136.43	
19	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	4" PVC SCH 80 COnduit	244	LF	10%	268.40	0.120	32.2		$ -	$ -	$ -	$ 3.95	$ 1,060.29	$ 1,060.29	
20	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3" RGS Conduit	198	LF	10%	217.82	0.220	47.9		$ -	$ -	$ -	$ 7.24	$ 1,577.55	$ 1,577.55	
21	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	4" RGS Conduit	30	LF	10%	33.00	0.220	7.3		$ -	$ -	$ -	$ 7.24	$ 239.00	$ 239.00	
			Terminations														
22	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #6 CU Wire Heat Shrink Tubing For #6 CU Wire	4	EA	0%	4.00	0.150	0.6	$ 4.63	$ 18.52	$ -	$ -	$ 4.94	$ 19.75	$ 38.27	
23	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #3 CU Wire Heat Shrink Tubing For #3 CU Wire	2	EA	0%	2.00	0.300	0.6		$ -	$ -	$ -	$ 9.88	$ 19.75	$ 19.75	
24	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #1 CU Wire Heat Shrink Tubing For #1 CU Wire	8	EA	0%	8.00	0.300	2.4	$ 13.66	$ 109.28	$ -	$ -	$ 9.88	$ 79.01	$ 188.29	
25	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #1/0 CU Wire Heat Shrink Tubing For #1/0 CU Wire	4	EA	0%	4.00	0.450	1.8	$ 12.84	$ 51.36	$ -	$ -	$ 14.81	$ 59.26	$ 110.62	
26	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #3/0 CU Wire Heat Shrink Tubing For #3/0 CU Wire	4	EA	0%	4.00	0.450	1.8	$ 14.71	$ 58.84	$ -	$ -	$ 14.81	$ 59.26	$ 118.10	
27	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #4/0 CU Wire Heat Shrink Tubing For #4/0 CU Wire	22	EA	0%	22.00	0.450	9.9	$ 16.93	$ 372.46	$ -	$ -	$ 14.81	$ 325.91	$ 698.37	
28	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #250 MCM CU Wire Heat Shrink Tubing For #250 MCM CU Wire	8	EA	0%	8.00	0.600	4.8	$ 16.57	$ 132.56	$ -	$ -	$ 19.75	$ 158.02	$ 290.58	
29	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #500 MCM CU Wire Heat Shrink Tubing For #500 MCM CU Wire	48	EA	0%	48.00	0.600	28.8	$ 41.89	$ 2,010.72	$ -	$ -	$ 19.75	$ 948.10	$ 2,958.82	
			Panels														
30	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Panel MDP: 600A, 277/480V, 3Ph, 4W, Main MLO, 65 KIC, 42 Poles Surface Mounted	1	EA	0%	1.00	26.000	26.0		$ -	$ -	$ -	$ 855.92	$ 855.92	$ 855.92	
31	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Panel HA: 250.A, 277/480V, 3Ph, 4W, Main MLO, 65 KIC, 42 Poles Surface Mounted NEMA-	1	EA	0%	1.00	14.000	14.0		$ -	$ -	$ -	$ 460.88	$ 460.88	$ 460.88	
32	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Panel LA (Section 1): 400A, 120/20V8, 3Ph, 4W, Main MCB, 22 KIC, 42 Poles Surface Mount	1	EA	0%	1.00	20.000	20.0		$ -	$ -	$ -	$ 658.40	$ 658.40	$ 658.40	
33	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Panel LA (Section 2): 400A, 120/20V8, 3Ph, 4W, Main MLO, 22 KIC, 42 Poles Surface Mount	1	EA	0%	1.00	20.000	20.0		$ -	$ -	$ -	$ 658.40	$ 658.40	$ 658.40	
34	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Panel LB: 225A, 120/20V8, 3Ph, 4W, Main MLO, 22 KIC, 42 Poles Surface Mounted NEMA-1	1	EA	0%	1.00	14.750	14.8		$ -	$ -	$ -	$ 485.57	$ 485.57	$ 485.57	
			Breakers														
35	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(15A, 3P) Circuit Breaker	5	EA	0%	5.00	0.600	3.0	$ 104.52	$ 522.60	$ -	$ -	$ 19.75	$ 98.76	$ 621.36	
36	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(20A, 1P) Circuit Breaker	101	EA	0%	101.00	0.300	30.3	$ 19.86	$ 2,005.86	$ -	$ -	$ 9.88	$ 997.48	$ 3,003.34	
37	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(20A, 1P) GFCI Circuit Breaker	24	EA	0%	24.00	0.300	7.2	$ 159.03	$ 3,816.72	$ -	$ -	$ 9.88	$ 237.02	$ 4,053.74	
38	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(20A, 2P) Circuit Breaker	3	EA	0%	3.00	0.400	1.2	$ 45.72	$ 137.16	$ -	$ -	$ 13.17	$ 39.50	$ 176.66	
39	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(20A, 2P) GFI Circuit Breaker	1	EA	0%	1.00	0.400	0.4	$ 281.88	$ 281.88	$ -	$ -	$ 13.17	$ 13.17	$ 295.05	
40	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(20A, 3P) Circuit Breaker	1	EA	0%	1.00	0.600	0.6	$ 169.26	$ 169.26	$ -	$ -	$ 19.75	$ 19.75	$ 189.01	
41	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(30A, 3P) Circuit Breaker	2	EA	0%	2.00	0.600	1.2	$ 104.52	$ 209.04	$ -	$ -	$ 19.75	$ 39.50	$ 248.54	
42	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(40A,3P) Circuit Breaker	1	EA	0%	1.00	0.600	0.6	$ 169.26	$ 169.26	$ -	$ -	$ 19.75	$ 19.75	$ 189.01	
43	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(50A, 2P) Circuit Breaker	4	EA	0%	4.00	0.400	1.6	$ 45.72	$ 182.88	$ -	$ -	$ 13.17	$ 52.67	$ 235.55	
44	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(50A, 1P) GFI Breaker Enclosure (SPA Type)	6	EA	0%	6.00	0.300	1.8	$ 159.03	$ 954.18	$ -	$ -	$ 9.88	$ 59.26	$ 1,013.44	
45	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(50A, 3P) Circuit Breaker	4	EA	0%	4.00	0.600	2.4	$ 104.52	$ 418.08	$ -	$ -	$ 19.75	$ 79.01	$ 497.09	
46	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(60A, 1P) Circuit Breaker	1	EA	0%	1.00	0.300	0.3		$ -	$ -	$ -	$ 9.88	$ 9.88	$ 9.88	
47	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(60A, 3P) Circuit Breaker	2	EA	0%	2.00	0.600	1.2	$ 169.26	$ 338.52	$ -	$ -	$ 19.75	$ 39.50	$ 378.02	
48	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(100A, 3P) Circuit Breaker	1	EA	0%	1.00	0.600	0.6	$ 154.33	$ 154.33	$ -	$ -	$ 19.75	$ 19.75	$ 174.08	
49	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(100A, 3P) HACR Circuit Breaker	2	EA	0%	2.00	0.600	1.2	$ 154.33	$ 308.66	$ -	$ -	$ 19.75	$ 39.50	$ 348.16	
50	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(225A, 3P) Circuit Breaker	2	EA	0%	2.00	1.500	3.0	$ 1,863.23	$ 3,726.46	$ -	$ -	$ 49.38	$ 98.76	$ 3,825.22	
51	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(400A, 3P) MCB Circuit Breaker	1	EA	0%	1.00	3.000	3.0		$ -	$ -	$ -	$ 98.76	$ 98.76	$ 98.76	
52	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	30A Enclosed Circuit Breaker on Wireway (For Radiant Heater)	2	EA	0%	2.00	0.500	1.0		$ -	$ -	$ -	$ 16.46	$ 32.92	$ 32.92	
			150 KVA Transformer With Details														
53	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(150KVA, 480V/120-208V, 3P, 4W) Transformer, SQUARE D #EXN150T3H	1	EA	0%	1.00	15.000	15.0		$ -	$ -	$ -	$ 493.80	$ 493.80	$ 493.80	
54	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Corner Mounting Bolts	4	EA	0%	4.00	0.500	2.0		$ -	$ -	$ -	$ 16.46	$ 65.84	$ 65.84	
55	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	HSS 2"x2"x1/8" (2.5' Long)	4	EA	0%	4.00	0.500	2.0		$ -	$ -	$ -	$ 16.46	$ 65.84	$ 65.84	
56	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	HSS 2"x2"x1/8" Cross Member (1.5' Long)	4	EA	0%	4.00	0.500	2.0		$ -	$ -	$ -	$ 16.46	$ 65.84	$ 65.84	
57	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Level-IT NSW-IN Leveling Mounts With 5/8" HEX Rated 2800Lbs	4	EA	0%	4.00	0.500	2.0		$ -	$ -	$ -	$ 16.46	$ 65.84	$ 65.84	
			Grounding														
58	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#4 CU Grounding Wire	45	LF	10%	49.50	0.013	0.6	$ 2.03	$ 100.49	$ -	$ -	$ 0.43	$ 21.18	$ 121.67	
59	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#1/0 CU Grounding Wire	20	LF	10%	22.00	0.020	0.4	$ 4.91	$ 108.02	$ -	$ -	$ 0.66	$ 14.48	$ 122.50	
60	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#1/0 Grounding Electrode Conductor	60	LF	10%	66.00	0.020	1.3	$ 4.91	$ 324.06	$ -	$ -	$ 0.66	$ 43.45	$ 367.51	
61	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#1/0 Equipment Bonding Jumper	2	EA	0%	2.00	0.500	1.0		$ -	$ -	$ -	$ 16.46	$ 32.92	$ 32.92	
62	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#3/0 Bonding Jumper	1	EA	0%	1.00	0.500	0.5		$ -	$ -	$ -	$ 16.46	$ 16.46	$ 16.46	
63	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#3/0 Grounding Electrode Conductor	20	LF	10%	22.00	0.025	0.6	$ 6.61	$ 145.42	$ -	$ -	$ 0.82	$ 18.11	$ 163.53	
64	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#1/0 Lugs	5	EA	0%	5.00	0.450	2.3	$ 12.84	$ 64.20	$ -	$ -	$ 14.81	$ 74.07	$ 138.27	
65	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#1/0 Clamp	5	EA	0%	5.00	0.500	2.5		$ -	$ -	$ -	$ 16.46	$ 82.30	$ 82.30	
66	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#4/0 Clamp	5	EA	0%	5.00	0.500	2.5		$ -	$ -	$ -	$ 16.46	$ 82.30	$ 82.30	
67	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3/4"x20' CU Clad Ground Rod	2	EA	0%	2.00	1.750	3.5		$ -	$ -	$ -	$ 57.61	$ 115.22	$ 115.22	
68	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Equipment Ground Bus	1	EA	0%	1.00	0.500	0.5		$ -	$ -	$ -	$ 16.46	$ 16.46	$ 16.46	
69	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Grounding Bus Bar	4	EA	0%	4.00	0.500	2.0		$ -	$ -	$ -	$ 16.46	$ 65.84	$ 65.84	
70	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Neutral Bus	1	EA	0%	1.00	0.500	0.5		$ -	$ -	$ -	$ 16.46	$ 16.46	$ 16.46	
71	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Exothermic Welds	2	EA	0%	2.00	0.500	1.0	$ 31.96	$ 63.92	$ -	$ -	$ 16.46	$ 32.92	$ 96.84	
72	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Entrance System Bonding Termination	1	EA	0%	1.00	0.500	0.5		$ -	$ -	$ -	$ 16.46	$ 16.46	$ 16.46	
			Disconnect Switches														
73	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1P/20A Disconnect Switch NEMA-3R (For Signage)	2	EA	0%	2.00	2.000	4.0		$ -	$ -	$ -	$ 65.84	$ 131.68	$ 131.68	
74	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1P/20A, Combination Starter Disconnect Switch	3	EA	0%	3.00	2.000	6.0		$ -	$ -	$ -	$ 65.84	$ 197.52	$ 197.52	
75	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1P/30A Disconnect Switch NEMA-3R (For Heater)	2	EA	0%	2.00	2.000	4.0		$ -	$ -	$ -	$ 65.84	$ 131.68	$ 131.68	
76	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1P/60A, Disconnect Switch NEMA-1R (for Water Heater)	1	EA	0%	1.00	2.500	2.5		$ -	$ -	$ -	$ 82.30	$ 82.30	$ 82.30	
77	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	2P/30A Disconnect Switch NEMA-1R (For UH)	1	EA	0%	1.00	2.000	2.0	$ 143.76	$ 143.76	$ -	$ -	$ 65.84	$ 65.84	$ 209.60	
78	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3P/25AF/30AT Fuse disconnect Switch NEMA-3R (For RTU)	1	EA	0%	1.00	2.000	2.0	$ 290.00	$ 290.00	$ -	$ -	$ 65.84	$ 65.84	$ 355.84	
79	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3P/30A, Disconnect Switch NEMA-3R (For EF)	2	EA	0%	2.00	2.000	4.0	$ 290.00	$ 580.00	$ -	$ -	$ 65.84	$ 131.68	$ 711.68	
80	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3P/60A, Disconnect Switch NEMA 1R (For Spray Booth)	2	EA	0%	2.00	2.500	5.0	$ 250.47	$ 500.94	$ -	$ -	$ 82.30	$ 164.60	$ 665.54	
81	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3P/60A, Disconnect Switch NEMA 3R (For Compressor)	1	EA	0%	1.00	2.500	2.5	$ 717.75	$ 717.75	$ -	$ -	$ 82.30	$ 82.30	$ 800.05	
82	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3P/70AF/100AT Fuse disconnect Switch NEMA-3R (For RTU)	2	EA	0%	2.00	3.500	7.0	$ 760.52	$ 1,521.04	$ -	$ -	$ 115.22	$ 230.44	$ 1,751.48	
83	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(600A, 277/480V, 3P) Wall Mounted Disconnect And Tran socket	1	EA	0%	1.00	26.000	26.0		$ -	$ -	$ -	$ 855.92	$ 855.92	$ 855.92	
84	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(600A, 600V, 3P, 4W) Fusible Heavy Duty Disconnect Switch NEMA 3R, With 600A Class "J	1	EA	0%	1.00	12.000	12.0	$ 7,544.36	$ 7,544.36	$ -	$ -	$ 395.04	$ 395.04	$ 7,939.40	
			Misc. Items														
85	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(277/480V, 3P,4W) Surge Suppressor, SURGE SUPRESSION INC # STM-30-3Y2	1	EA	0%	1.00	3.000	3.0		$ -	$ -	$ -	$ 98.76	$ 98.76	$ 98.76	
86	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	4"x4"x24" Wireway	1	EA	0%	1.00	1.500	1.5	$ 71.76	$ 71.76	$ -	$ -	$ 49.38	$ 49.38	$ 121.14	
			POWER														
			Power Conductors														
87	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#12 AWG CU THHN	4314	LF	10%	4745.40	0.006	28.5	$ 0.29	$ 1,376.17	$ -	$ -	$ 0.20	$ 937.31	$ 2,313.48	
88	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#10 AWG CU THHN	14933	LF	10%	16426.30	0.007	115.0	$ 0.44	$ 7,227.57	$ -	$ -	$ 0.23	$ 3,785.28	$ 11,012.85	
89	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#8 AWG CU THHN	4554	LF	10%	5009.40	0.009	45.1	$ 0.81	$ 4,057.61	$ -	$ -	$ 0.30	$ 1,484.19	$ 5,541.80	
90	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#6 AWG CU THHN	1497	LF	10%	1646.70	0.011	18.1	$ 1.25	$ 2,058.38	$ -	$ -	$ 0.36	$ 596.30	$ 2,654.68	
91	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#4 AWG CU THHN	2600	LF	10%	2860.00	0.013	37.2	$ 2.03	$ 5,805.80	$ -	$ -	$ 0.43	$ 1,223.97	$ 7,029.77	
92	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#3 AWG CU THHN	2731	LF	10%	3004.10	0.014	42.1	$ 2.56	$ 7,690.50	$ -	$ -	$ 0.46	$ 1,384.53	$ 9,075.03	
			Power Conduits														
93	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1/2" EMT Conduit	1238	LF	10%	1361.50	0.035	47.7	$ 0.64	$ 871.36	$ -	$ -	$ 1.15	$ 1,568.72	$ 2,440.09	
94	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3/4" EMT Conduit	5193	LF	10%	5712.30	0.045	257.1	$ 1.11	$ 6,340.65	$ -	$ -	$ 1.48	$ 8,462.20	$ 14,802.85	
95	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1" EMT Conduit	377	LF	10%	414.70	0.055	22.8	$ 1.99	$ 825.25	$ -	$ -	$ 1.81	$ 750.86	$ 1,576.11	
96	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1-1/4" EMT Conduit	1501	LF	10%	1651.10	0.065	107.3	$ 3.27	$ 5,399.10	$ -	$ -	$ 2.14	$ 3,533.02	$ 8,932.12	
97	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3" EMT Conduit With Pull String	24	LF	10%	26.77	0.160	4.3	$ 9.93	$ 265.87	$ -	$ -	$ 5.27	$ 141.02	$ 406.89	
98	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3/4" LFMC Conduit	18	LF	10%	19.80	0.080	1.6	$ 2.96	$ 58.61	$ -	$ -	$ 2.63	$ 52.15	$ 110.75	
99	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1-1/4" LFMC Conduit	15	LF	10%	16.50	0.090	1.5	$ 7.55	$ 124.58	$ -	$ -	$ 2.96	$ 48.89	$ 173.46	
100	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1/2" RGS Conduit	6	LF	10%	6.23	0.220	1.4		$ -	$ -	$ -	$ 7.24	$ 45.09	$ 45.09	
101	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3/4" RGS Conduit	21	LF	10%	23.10	0.220	5.1		$ -	$ -	$ -	$ 7.24	$ 167.30	$ 167.30	
102	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1-1/4" RGS Conduit	12	LF	10%	13.20	0.220	2.9		$ -	$ -	$ -	$ 7.24	$ 95.60	$ 95.60	
103	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1" PVC SCH 40 Conduit	521	LF	10%	573.10	0.040	22.9	$ 0.66	$ 378.25	$ -	$ -	$ 1.32	$ 754.66	$ 1,132.90	
104	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1-1/4" PVC SCH 40 Conduit	250	LF	10%	275.45	0.045	12.4	$ 0.92	$ 253.41	$ -	$ -	$ 1.48	$ 408.05	$ 661.47	
			Terminations														
105	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #8CU Wire Heat Shrink Tubing For #8 CU Wire	20	EA	0%	20.00	0.150	3.0	$ 5.39	$ 107.80	$ -	$ -	$ 4.94	$ 98.76	$ 206.56	
106	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #6 CU Wire Heat Shrink Tubing For #6 CU Wire	4	EA	0%	4.00	0.150	0.6	$ 4.63	$ 18.52	$ -	$ -	$ 4.94	$ 19.75	$ 38.27	
107	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #4 CU Wire Heat Shrink Tubing For #4 CU Wire	20	EA	0%	20.00	0.300	6.0	$ 5.90	$ 118.00	$ -	$ -	$ 9.88	$ 197.52	$ 315.52	
108	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Compression Lugs CU With 1- Hole, #3 CU Wire Heat Shrink Tubing For #3 CU Wire	12	EA	0%	12.00	0.300	3.6		$ -	$ -	$ -	$ 9.88	$ 118.51	$ 118.51	
			Saw Cut														
109	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Sawcut & Repair Concrete For Conduit Installation	15	LF	10%	16.50	0.500	8.3		$ -	$ -	$ -	$ -	$ -	$ -	
			Power Devices														
110	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	20A, Controlled Duplex Receptacle, Split-Wired, LEVITON #5362	12	EA	0%	12.00	0.700	8.4	$ 19.69	$ 236.28	$ -	$ -	$ 23.04	$ 276.53	$ 512.81	
111	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	20A, Controlled Quad Receptacle, Split-Wired, LEVITON #5362	13	EA	0%	13.00	0.900	11.7	$ 31.64	$ 411.32	$ -	$ -	$ 29.63	$ 385.16	$ 796.48	
112	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	20A, Duplex Receptacle NEMA 5-20R	21	EA	0%	21.00	0.600	12.6	$ 19.69	$ 413.49	$ -	$ -	$ 19.75	$ 414.79	$ 828.28	
113	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	20A, Duplex Receptacle, GFCI, NEMA 5-20R	8	EA	0%	8.00	0.700	5.6	$ 49.43	$ 395.44	$ -	$ -	$ 23.04	$ 184.35	$ 579.79	
114	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	20A, Duplex Receptacle, GFCI/WP, NEMA 5-20R	9	EA	0%	9.00	0.700	6.3	$ 49.43	$ 444.87	$ -	$ -	$ 23.04	$ 207.40	$ 652.27	
115	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	20A, Locking Receptacle, GFCI (L5-20R)	6	EA	0%	6.00	1.000	6.0		$ -	$ -	$ -	$ 32.92	$ 197.52	$ 197.52	
116	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	20A, Quad Receptacle	3	EA	0%	3.00	0.900	2.7	$ 31.64	$ 94.92	$ -	$ -	$ 29.63	$ 88.88	$ 183.80	
117	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	20A, Quad Receptacle, GFCI	5	EA	0%	5.00	0.900	4.5	$ 31.64	$ 158.20	$ -	$ -	$ 29.63	$ 148.14	$ 306.34	
118	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	20A, Simplex Receptacle, GFCI	1	EA	0%	1.00	0.700	0.7	$ 49.43	$ 49.43	$ -	$ -	$ 23.04	$ 23.04	$ 72.47	
119	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	20A, Special Purpose Receptacle, NEMA 6-20 (For Lift Control)	1	EA	0%	1.00	0.700	0.7	$ 48.46	$ 48.46	$ -	$ -	$ 23.04	$ 23.04	$ 71.50	
120	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	50A Locking Receptacle	6	EA	0%	6.00	1.000	6.0		$ -	$ -	$ -	$ 32.92	$ 197.52	$ 197.52	
			Controls														
121	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	5HP, 480V, 3-Phase Motor Starter With 24V AC Control Coil	2	EA	0%	2.00	2.000	4.0		$ -	$ -	$ -	$ 65.84	$ 131.68	$ 131.68	
122	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Associated Switch (For Heat Lamp)	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.69	$ 24.69	$ 24.69	
123	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Co Sensor, 24V AC (For Exhaust Fan Control)	2	EA	0%	2.00	0.750	1.5		$ -	$ -	$ -	$ 24.69	$ 49.38	$ 49.38	
124	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Controls For (Big Ass Fans)	3	EA	0%	3.00	0.750	2.3		$ -	$ -	$ -	$ 24.69	$ 74.07	$ 74.07	
125	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Motor Rated Switch	8	EA	0%	8.00	0.750	6.0		$ -	$ -	$ -	$ 24.69	$ 197.52	$ 197.52	
126	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Push-Button Override Switch	2	EA	0%	2.00	0.750	1.5		$ -	$ -	$ -	$ 24.69	$ 49.38	$ 49.38	
127	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Thermostat (For EF)	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.69	$ 24.69	$ 24.69	
128	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	20A Relay with 24V AC Coil (for Louver Actuator control via CO Sensor output)	2	EA	0%	2.00	0.750	1.5		$ -	$ -	$ -	$ 24.69	$ 49.38	$ 49.38	
129	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Shut-Off Relay (for Big Ass Fan)	3	EA	0%	3.00	0.750	2.3		$ -	$ -	$ -	$ 24.69	$ 74.07	$ 74.07	
			Misc. Items														
130	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1-Phase, 277V, 12kw Heater Panel	1	EA	0%	1.00	14.000	14.0		$ -	$ -	$ -	$ 460.88	$ 460.88	$ 460.88	
131	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	6KW, 277V. Electric Radiant Heater	2	EA	0%	2.00	2.000	4.0		$ -	$ -	$ -	$ 65.84	$ 131.68	$ 131.68	
132	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Neoprene Roof Jack	5	EA	0%	5.00	0.500	2.5		$ -	$ -	$ -	$ 16.46	$ 82.30	$ 82.30	
133	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	SS Draw Bend	5	EA	0%	5.00	0.500	2.5		$ -	$ -	$ -	$ 16.46	$ 82.30	$ 82.30	
134	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Weather Head RACO CLAMP # 2408 2"	5	EA	0%	5.00	0.500	2.5		$ -	$ -	$ -	$ 16.46	$ 82.30	$ 82.30	
			LIGHTING														
			Lighting Conductors														
135	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#12 AWG CU THHN	2378	LF	10%	2615.80	0.006	15.7	$ 0.29	$ 758.58	$ -	$ -	$ 0.20	$ 516.67	$ 1,275.25	
136	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	#10 AWG CU THHN	6539	LF	10%	7192.90	0.007	50.4	$ 0.44	$ 3,164.88	$ -	$ -	$ 0.23	$ 1,657.53	$ 4,822.41	

DETAILED TAKEOFF / ESTIMATE
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

Project Name	CALIBER COLLISION	PROJECT COST	$ 302,576
Location	A1.47 ACRES OF LAND OUT OF LOT 6, BLOCK 1, LAKEVIEW ADDITION ROWLETT, TX	OVERHEAD COST	$ 30,258
Project Scope:	ELECTRICAL	PROFIT COST	$ 30,258
Addendum:	N/A	ADDITIONAL COST (If Any)	$ 2,337
Date:	Tuesday, November 3, 2026	**TOTAL BID COST**	**$ 365,428**
	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
			Lighting Conduits														
137	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	1/2" EMT Conduit	1254	LF	10%	1379.36	0.035	48.3	$ 0.64	$ 882.79	$ -	$ -	$ 1.15	$ 1,589.29	$ 2,472.08	
138	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3/4" EMT Conduit	2052	LF	10%	2256.76	0.045	101.6	$ 1.11	$ 2,505.00	$ -	$ -	$ 1.48	$ 3,343.16	$ 5,848.17	
			Lighting Fixtures														
139	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	A: LED High Bay	62	EA	0%	62.00	2.000	124.0		$ -	$ -	$ -	$ 65.84	$ 4,082.08	$ 4,082.08	
140	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	A/NL: LED High Bay Night Light With 90 Min Battery Pack	2	EA	0%	2.00	2.200	4.4		$ -	$ -	$ -	$ 72.42	$ 144.85	$ 144.85	
141	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	A2: SURFACE EXTERIOR - INDUSTRIAL LED HI-BAY	6	EA	0%	6.00	2.000	12.0		$ -	$ -	$ -	$ 65.84	$ 395.04	$ 395.04	
142	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	AE: PENDANT EMERGENCY LED HIGH BAY	13	EA	0%	13.00	2.000	26.0		$ -	$ -	$ -	$ 65.84	$ 855.92	$ 855.92	
143	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	B: 2X4 LED FLAT PANEL - 4000K - FROSTED LENS	24	EA	0%	24.00	14.000	336.0		$ -	$ -	$ -	$ 460.88	$ 11,061.12	$ 11,061.12	
144	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	B1: 2X4 LED FLAT PANEL - 4000K - FROSTED LENS WITH DRYWALL KIT	1	EA	0%	1.00	14.000	14.0		$ -	$ -	$ -	$ 460.88	$ 460.88	$ 460.88	
145	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	B1E: 2X4 LED FLAT PANEL - 4000K - FROSTED LENS WITH 90-MINUTE BATTERY PACK WITH	3	EA	0%	3.00	14.000	42.0		$ -	$ -	$ -	$ 460.88	$ 1,382.64	$ 1,382.64	
146	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	BE: 2X4 LED FLAT PANEL - 4000K - FROSTED LENS WITH 90-MINUTE BATTERY PACK	7	EA	0%	7.00	14.000	98.0		$ -	$ -	$ -	$ 460.88	$ 3,226.16	$ 3,226.16	
147	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	BE/NL: 2X4 LED FLAT PANEL Night Light - 4000K - FROSTED LENS WITH 90-MINUTE	1	EA	0%	1.00	14.000	14.0		$ -	$ -	$ -	$ 460.88	$ 460.88	$ 460.88	
148	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	CE: 4' UTILITY LED STRIP WITH 90-MINUTE BATTERY PACK	1	EA	0%	1.00	1.200	1.2		$ -	$ -	$ -	$ 39.50	$ 39.50	$ 39.50	
149	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	D1: 6" LED DOWNLIGHT	4	EA	0%	4.00	0.800	3.2		$ -	$ -	$ -	$ 26.34	$ 105.34	$ 105.34	
150	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	D2: 6" LED WALL WASHER	3	EA	0%	3.00	1.000	3.0		$ -	$ -	$ -	$ 32.92	$ 98.76	$ 98.76	
151	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	FE: EXTERIOR WALL PACK WITH 90-MINUTE BATTERY PACK. 9'-0" A.F.F.	7	EA	0%	7.00	1.700	11.9		$ -	$ -	$ -	$ 55.96	$ 391.75	$ 391.75	
152	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	G: EXTERIOR WALL PACK	6	EA	0%	6.00	1.500	9.0		$ -	$ -	$ -	$ 49.38	$ 296.28	$ 296.28	
153	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	X: EXIT SIGNS WITH STANDARD BATTERY PACK WITH SELF DIAGNOSTICS	6	EA	0%	6.00	1.000	6.0		$ -	$ -	$ -	$ 32.92	$ 197.52	$ 197.52	
154	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Chain With Hanger For Suspended Lights 3' Long (For B, B1, B1E, BE, BE/NL)	432	LF	10%	475.20	0.150	71.3		$ -	$ -	$ -	$ 4.94	$ 2,346.54	$ 2,346.54	
			Lighting Controls														
155	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	2-Hour Max Override Switch	4	EA	0%	4.00	0.750	3.0		$ -	$ -	$ -	$ 24.69	$ 98.76	$ 98.76	
156	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	3-Way Wall Switch With Vacancy Sensor, LEVITON OSSMT-MDX	2	EA	0%	2.00	0.600	1.2	$ 155.12	$ 310.24	$ -	$ -	$ 19.75	$ 39.50	$ 349.74	
157	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	All OFF Switch	4	EA	0%	4.00	0.500	2.0	$ 48.32	$ 193.28	$ -	$ -	$ 16.46	$ 65.84	$ 259.12	
158	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Ceiling Mounted Occupancy Sensor, LEVITON, OSC20-MOW WITH OPP20-OD2	7	EA	0%	7.00	0.750	5.3	$ 207.54	$ 1,452.78	$ -	$ -	$ 24.69	$ 172.83	$ 1,625.61	
159	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Lighting Control Panel	1	EA	0%	1.00	14.000	14.0		$ -	$ -	$ -	$ 460.88	$ 460.88	$ 460.88	
160	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Low Voltage Switch, LEVITON EMAX, OOLVS-O4W OR Approved Equal	2	EA	0%	2.00	0.750	1.5		$ -	$ -	$ -	$ 24.69	$ 49.38	$ 49.38	
161	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Low Voltage Switch, LEVITON EMAX, OOLVS-O8W OR Approved Equal	3	EA	0%	3.00	0.750	2.3		$ -	$ -	$ -	$ 24.69	$ 74.07	$ 74.07	
162	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Photocell, LEVITON #EZ-MAX-PCIND-000	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.69	$ 24.69	$ 24.69	
163	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Single Pole Switch	1	EA	0%	1.00	0.500	0.5	$ 48.32	$ 48.32	$ -	$ -	$ 16.46	$ 16.46	$ 64.78	
164	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Single Pole Switch With Vacancy Sensor, LEVITON OSSMT-MDX	7	EA	0%	7.00	0.600	4.2	$ 155.12	$ 1,085.84	$ -	$ -	$ 19.75	$ 138.26	$ 1,224.10	
165	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Single Pole Switch, WP	2	EA	0%	2.00	0.500	1.0	$ 48.32	$ 96.64	$ -	$ -	$ 16.46	$ 32.92	$ 129.56	
166	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Wall Switch With occupancy Sensor, LEVITON, OSSMT-MDX	4	EA	0%	4.00	0.600	2.4	$ 155.12	$ 620.48	$ -	$ -	$ 19.75	$ 79.01	$ 699.49	
167	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Lighting Units Will Be Provided By Manufacturer	3	EA	0%	3.00	1.000	3.0		$ -	$ -	$ -	$ 32.92	$ 98.76	$ 98.76	
168	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Timeswitch S.P.S.T. MFR: PARAGON Contacts Rated 40A	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.69	$ 24.69	$ 24.69	
169	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Thermostat MFR: AQUASTAT	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 32.92	$ 32.92	$ 32.92	
170	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Timeclock MFR: PARAGON 7218-00 Spring Wound Carry-Over S.P.S.T. Contacts Rated 40A	1	EA	0%	1.00	1.000	1.0		$ -	$ -	$ -	$ 32.92	$ 32.92	$ 32.92	
171	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Photocell, LEVITON #EZ-MAX-PCOUT-000	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.69	$ 24.69	$ 24.69	
172	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	8 Poles Lighting Contactor Model: LG-80-V02 SQUARE D	2	EA	0%	2.00	3.000	6.0	$ 1,275.61	$ 2,551.22	$ -	$ -	$ 98.76	$ 197.52	$ 2,748.74	
			LCP Panel Details														
173	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(20A, 1P) Lock On Handle Circuit Breaker	1	EA	0%	1.00	0.300	0.3	$ 19.86	$ 19.86	$ -	$ -	$ 9.88	$ 9.88	$ 29.74	
174	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(120/277V, 1P) Relays, LEVITON #L3H	24	EA	0%	24.00	0.750	18.0		$ -	$ -	$ -	$ 24.69	$ 592.56	$ 592.56	
175	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	(18000A, 277V SCCR) LCP Panel, Surface Mounted LEVITON EZ-MAX RELAY PANEL EZ-MAX-H-R24BD-H00	1	EA	0%	1.00	248.000	248.0		$ -	$ -	$ -	$ 8,164.16	$ 8,164.16	$ 8,164.16	
176	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Surge Suppressor Breakers	3	EA	0%	3.00	3.000	9.0		$ -	$ -	$ -	$ 98.76	$ 296.28	$ 296.28	
177	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Surge Suppressor, SURGE SUPPRESSION INC. #S-SPT-120	1	EA	0%	1.00	3.000	3.0		$ -	$ -	$ -	$ 98.76	$ 98.76	$ 98.76	
178	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Voltage Barrier, LEVITON #RGBAR-EZH	1	EA	0%	1.00	0.500	0.5		$ -	$ -	$ -	$ 16.46	$ 16.46	$ 16.46	
			Junction Boxes														
179	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	A4-11/16"X-18" Junction Box (For Twin Post Rack)	1	EA	0%	1.00	0.500	0.5	$ 10.34	$ 10.34	$ -	$ -	$ 16.46	$ 16.46	$ 26.80	
180	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Ceiling Mounted Junction Box	12	EA	0%	12.00	0.500	6.0	$ 10.34	$ 124.08	$ -	$ -	$ 16.46	$ 197.52	$ 321.60	
181	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Dual-Gang Junction Box	18	EA	0%	18.00	0.500	9.0	$ 10.34	$ 186.12	$ -	$ -	$ 16.46	$ 296.28	$ 482.40	
182	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Junction Box (For Heat Lamp)	1	EA	0%	1.00	0.500	0.5	$ 10.34	$ 10.34	$ -	$ -	$ 16.46	$ 16.46	$ 26.80	
183	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Junction Box Weather Proof (For Signage)	2	EA	0%	2.00	0.600	1.2		$ -	$ -	$ -	$ 19.75	$ 39.50	$ 39.50	
184	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Junction Box With 120v Power (For Co Censor controller)	4	EA	0%	4.00	0.750	3.0		$ -	$ -	$ -	$ 24.69	$ 98.76	$ 98.76	
			Temporary Service For Power And Lighting														
185	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Temporary Allowance For Power And Lighting (17572 SF)	1	LS	0%	1.00	1.200	1.2		$ -	$ -	$ -	$ 39.50	$ 39.50	$ 39.50	
186	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Utility Location Prior to work Start	1	LS	0%	1.00	0.000	0.0		$ -	$ -	$ -	$ -	$ -	$ -	
			Testing														
187	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Electrical	Testing Of All Cables And Circuit Wiring After Installation	1	LS	0%	1.00	24.000	24.0	$ -	$ -	$ -	$ -	$ 790.08	$ 790.08	$ 790.08	
						LABOR HOURS		2906.547	MATERIAL COST	$ 149,514.70	EQUIPMENT COST	$ -	LABOR COST	$ 95,411.95	SUBTOTAL		$ 244,926.65
		DIV-27	**COMMUNICATION**										Labor Rate	$ 32.92			
			STRUCTURED CABELING														
			Conduits														
188	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	3/4" EMT Conduit With Pull String	405	LF	10%	445.50	0.045	20.0	$ 1.11	$ 494.51	$ -	$ -	$ 1.48	$ 659.96	$ 1,154.47	
189	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	2" EMT Conduit With Pull String	13	LF	10%	14.56	0.100	1.5	$ 4.82	$ 70.20	$ -	$ -	$ 3.29	$ 47.94	$ 118.14	
190	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	1" PVC Conduit With Pull String	8	LF	10%	8.97	0.040	0.4	$ 0.66	$ 5.92	$ -	$ -	$ 1.32	$ 11.81	$ 17.72	
			COMMUNICATION DEVICES														
			Communication Outlets														
191	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	2"x4" Phone/ Data Outlet	29	EA	0%	29.00	0.500	14.5	$ 7.74	$ 224.46	$ -	$ -	$ 16.46	$ 477.34	$ 701.80	
192	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	2"x4" Tele/Data Outlet To Be Mounted Below Finish Ceiling Centered Over Coffee Bar	1	EA	0%	1.00	0.500	0.5	$ 7.74	$ 7.74	$ -	$ -	$ 16.46	$ 16.46	$ 24.20	
193	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	TV Outlet	1	EA	0%	1.00	0.500	0.5	$ 7.74	$ 7.74	$ -	$ -	$ 16.46	$ 16.46	$ 24.20	
			Communication Devices														
194	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	"66" Telephone Blocks With Feeder Pairs Termination	2	EA	0%	2.00	0.500	1.0		$ -	$ -	$ -	$ 16.46	$ 32.92	$ 32.92	
195	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	96"x48"x 3/4" Plywood Unpainted Fire Retardant	1	EA	0%	1.00	1.000	1.0	$ 108.88	$ 108.88	$ -	$ -	$ 32.92	$ 32.92	$ 141.80	
196	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	Junction Box	1	EA	0%	1.00	0.500	0.5	$ 10.34	$ 10.34	$ -	$ -	$ 16.46	$ 16.46	$ 26.80	
197	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	Junction Box For Phone (As Required)	1	EA	0%	1.00	0.500	0.5	$ 10.34	$ 10.34	$ -	$ -	$ 16.46	$ 16.46	$ 26.80	
198	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	Junction Box Structure Mounted For Tele/Data Connection to Frame rack Computer	1	EA	0%	1.00	0.500	0.5	$ 10.34	$ 10.34	$ -	$ -	$ 16.46	$ 16.46	$ 26.80	
199	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	Junction Box Structure Mounted For Wireless Access Point	2	EA	0%	2.00	0.500	1.0	$ 10.34	$ 20.68	$ -	$ -	$ 16.46	$ 32.92	$ 53.60	
200	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	Junction Box Structure Mounted For Wireless System (By Others)	4	EA	0%	4.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
201	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	Junction Box Weather Proof For Wireless Access Point	3	EA	0%	3.00	0.600	1.8		$ -	$ -	$ -	$ 19.75	$ 59.26	$ 59.26	
202	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	Patch Panel W/ Network Cables Terminated And Labeled	1	EA	0%	1.00	14.000	14.0		$ -	$ -	$ -	$ 460.88	$ 460.88	$ 460.88	
203	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	Phone System (Provided And Installed By Caliber Collision)	1	EA	0%	1.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
204	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	Security Panel (By Others)	1	EA	0%	1.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
			Saw Cut														
205	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	Sawcut & Repair Concrete For Conduit Installation	8	LF	10%	8.80	0.500	4.4		$ -	$ -	$ -	$ -	$ -	$ -	
			Grounding														
206	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	Wall Mounted Grounding Bar	1	EA	0%	1.00	0.500	0.5		$ -	$ -	$ -	$ 16.46	$ 16.46	$ 16.46	
207	E0.0, E0.1, E1.0, E2.0, E2.1, E2.	Communication	#3 CU Grounding Wire in 1-1/4" PVC Conduit (For Telecom)	30	LF	10%	33.00	0.059	1.9	$ 3.48	$ 114.84	$ -	$ -	$ 1.94	$ 64.10	$ 178.94	
						LABOR HOURS		64.510	MATERIAL COST	$ 1,085.98	EQUIPMENT COST	$ -	LABOR COST	$ 1,978.80	SUBTOTAL		$ 3,064.79
		DIV-28	**ELECTRONIC SAFETY & SECURITY**										Labor Rate	$ 32.92			
			STRUCTURED CABELING														
			Fire Alarm Cables/Wires														
208	E7.0, E7.1	Fire Alarm	2#16 FPLP Cable	420	LF	10%	461.93	0.008	3.7		$ -	$ -	$ -	$ 0.26	$ 121.65	$ 121.65	
209	E7.0, E7.1	Fire Alarm	2#14 FPLP Cable	544	LF	10%	598.71	0.008	4.8		$ -	$ -	$ -	$ 0.26	$ 157.68	$ 157.68	
			Conduits														
210	E7.0, E7.1	Fire Alarm	3/4" EMT Conduit	964	LF	10%	1060.64	0.045	47.7	$ 1.11	$ 1,177.31	$ -	$ -	$ 1.48	$ 1,571.24	$ 2,748.55	
211	E7.0, E7.1	Fire Alarm	3/4" EMT Conduit With Pull String	24	LF	10%	26.40	0.045	1.2	$ 1.11	$ 29.30	$ -	$ -	$ 1.48	$ 39.11	$ 68.41	
			FIRE ALARM/SECURITY DEVICES														
			Fire Alarm Signals Devices														
212	E7.0, E7.1	Fire Alarm	Non Proprietary Fire Alarm Control Panel (Fire-Lite, ES-200X)	1	EA	0%	1.00	16.000	16.0	$ 1,626.99	$ 1,626.99	$ -	$ -	$ 526.72	$ 526.72	$ 2,153.71	
213	E7.0, E7.1	Fire Alarm	Junction Box Structure Mounted For Speaker System (By Others)	4	EA	0%	4.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
214	E7.0, E7.1	Fire Alarm	Addressable Monitor Module With 4"x4" Junction Box With Single Gang P-Ring Cover	2	EA	0%	2.00	1.000	2.0	$ 75.99	$ 151.98	$ -	$ -	$ 32.92	$ 65.84	$ 217.82	
215	E7.0, E7.1	Fire Alarm	Addressable Photo Duct Smoke Detector/Base/Housing/Air Sampling Tube	6	EA	0%	6.00	2.000	12.0	$ 154.86	$ 929.16	$ -	$ -	$ 65.84	$ 395.04	$ 1,324.20	
216	E7.0, E7.1	Fire Alarm	Addressable Photo Smoke Detector/Base (Mounts To Octagon Box Or 4" Sq)	4	EA	0%	4.00	1.000	4.0	$ 74.99	$ 299.96	$ -	$ -	$ 32.92	$ 131.68	$ 431.64	
			Notification Devices														
217	E7.0, E7.1	Fire Alarm	110 Cd Horn Strobe 4" Square Box, GCC-24CR	7	EA	0%	7.00	1.000	7.0	$ 83.99	$ 587.93	$ -	$ -	$ 32.92	$ 230.44	$ 818.37	
218	E7.0, E7.1	Fire Alarm	110 Cd Horn Strobe 4" Square Box, GEC3-24WR	1	EA	0%	1.00	1.000	1.0	$ 83.99	$ 83.99	$ -	$ -	$ 32.92	$ 32.92	$ 116.91	
219	E7.0, E7.1	Fire Alarm	Ceiling Strobe 4" Square Box, GCS24CR	4	EA	0%	4.00	1.000	4.0	$ 63.99	$ 255.96	$ -	$ -	$ 32.92	$ 131.68	$ 387.64	
220	E7.0, E7.1		Multi-Candela Horn Strobe 4" Square Box, GCC-24CR	4	EA	0%	4.00	1.000	4.0	$ 83.99	$ 335.96	$ -	$ -	$ 32.92	$ 131.68	$ 467.64	
221	E7.0, E7.1	Fire Alarm	Weatherproof Strobe/Backbox, WGES24-75WR	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.69	$ 24.69	$ 24.69	
			Other Devices														
222	E7.0, E7.1	Fire Alarm	Addressable Control Relay (Mounts To 4" Square Box)	3	EA	0%	3.00	1.000	3.0	$ 79.99	$ 239.97	$ -	$ -	$ 32.92	$ 98.76	$ 338.73	
223	E7.0, E7.1		Addressable Manual Pull Station/Stopper Cover (Mounts To 4" Square Box With Single	5	EA	0%	5.00	1.000	5.0	$ 133.99	$ 669.95	$ -	$ -	$ 32.92	$ 164.60	$ 834.55	
224	E7.0, E7.1	Fire Alarm	Edco Surge Protection Device	2	EA	0%	2.00	2.000	4.0		$ -	$ -	$ -	$ 65.84	$ 131.68	$ 131.68	
225	E7.0, E7.1	Fire Alarm	End Of Line Resistor	2	EA	0%	2.00	0.750	1.5		$ -	$ -	$ -	$ 24.69	$ 49.38	$ 49.38	
226	E7.0, E7.1	Fire Alarm	Fire Alarm Radio Dialer With Monitor Module & Battery Backup	1	EA	0%	1.00	1.000	1.0	$ 75.99	$ 75.99	$ -	$ -	$ 32.92	$ 32.92	$ 108.91	
227	E7.0, E7.1	Fire Alarm	Fire Alarm Remote Annunciator	1	EA	0%	1.00	0.750	0.8		$ -	$ -	$ -	$ 24.69	$ 24.69	$ 24.69	
228	E7.0, E7.1	Fire Alarm	Fire Suppression Panel	1	EA	0%	1.00	16.000	16.0		$ -	$ -	$ -	$ 526.72	$ 526.72	$ 526.72	
229	E7.0, E7.1	Fire Alarm	Junction Box	1	EA	0%	1.00	0.500	0.5	$ 10.34	$ 10.34	$ -	$ -	$ 16.46	$ 16.46	$ 26.80	
230	E7.0, E7.1	Fire Alarm	Paint Booth Device	2	EA	0%	2.00	0.750	1.5		$ -	$ -	$ -	$ 24.69	$ 49.38	$ 49.38	
231	E7.0, E7.1	Fire Alarm	Remote Test Switch (Mounts On Single Gang Box)	6	EA	0%	6.00	0.750	4.5		$ -	$ -	$ -	$ 24.69	$ 148.14	$ 148.14	
232	E7.0, E7.1	Fire Alarm	Temper Switch/Monitor Module, Mounts To 4" Square Box With Single Gang P-Ring Cov	1	EA	0%	1.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
233	E7.0, E7.1	Fire Alarm	Water Flow Switch/Monitor Module, Mounts To 4" Square Box With Single Gang P-Ring	1	EA	0%	1.00	0.000	0.0	$ -	$ -	$ -	$ -	$ -	$ -	$ -	
						LABOR HOURS		145.902	MATERIAL COST	$ 6,474.80	EQUIPMENT COST	$ -	LABOR COST	$ 4,803.09	SUBTOTAL		$ 11,277.89
			SITE & INFRASTRUCTURE SUBGROUP WORK														
		DIV-33	**UTILITIES**										Labor Rate	$ 28.47			
			ELECTRICAL UTILITIES														
			Conduits														
234	E0.0, E0.1	Electrical Utilities	#8 AWG CU THWN	5178	LF	10%	5695.80	0.009	51.3	$ 0.81	$ 4,613.60	$ -	$ -	$ 0.26	$ 1,459.43	$ 6,073.03	
			Conduits														
235	E0.0, E0.1	Electrical Utilities	1" PVC SCH 40 Conduit With Pull String	21	LF	10%	22.70	0.040	0.9	$ 0.66	$ 14.98	$ -	$ -	$ 1.14	$ 25.86	$ 40.84	
236	E0.0, E0.1	Electrical Utilities	1" PVC SCH 40 Conduit	914	LF	10%	1005.02	0.040	40.2	$ 0.66	$ 663.31	$ -	$ -	$ 1.14	$ 1,144.51	$ 1,807.82	
237	E0.0, E0.1	Electrical Utilities	3" PVC SCH 80 Conduit With Pull String (For Telecom)	274	LF	10%	301.40	0.096	28.9		$ -	$ -	$ -	$ 2.73	$ 823.76	$ 823.76	
238	E0.0, E0.1	Electrical Utilities	1" Flexible Conduit	276	LF	10%	304.11	0.070	21.3	$ 2.98	$ 906.24	$ -	$ -	$ 1.99	$ 606.05	$ 1,512.29	
			Site Light Pole Details														
239	E0.0, E0.1	Electrical Utilities	Square Straight Lighting Pole (12') With Pole Cap	13	EA	0%	13.00	8.000	104.0		$ -	$ -	$ -	$ 227.76	$ 2,960.88	$ 2,960.88	
240	E0.0, E0.1	Electrical Utilities	Anchor Bolts	52	EA	0%	52.00	0.500	26.0		$ -	$ -	$ -	$ 14.24	$ 740.22	$ 740.22	
241	E0.0, E0.1	Electrical Utilities	20A Fuses	26	EA	0%	26.00	0.500	13.0		$ -	$ -	$ -	$ 14.24	$ 370.11	$ 370.11	
242	E0.0, E0.1	Electrical Utilities	2'-0" Dia X 11'-0" H Pole Footing Reinforced With 5#5 Vertical Bars, #3 Ties With 2-1/2"	13	EA	0%	13.00	1.000	13.0		$ -	$ -	$ -	$ 28.47	$ 370.11	$ 370.11	
243	E0.0, E0.1	Electrical Utilities	3/4"x8' Grounding Rod	13	EA	0%	13.00	1.750	22.8		$ -	$ -	$ -	$ 49.82	$ 647.69	$ 647.69	
244	E0.0, E0.1	Electrical Utilities	#6 Grounding Wire	130	LF	10%	143.00	0.011	1.6	$ 1.25	$ 178.75	$ -	$ -	$ 0.31	$ 44.78	$ 223.53	
245	E0.0, E0.1	Electrical Utilities	4"x12" Long PVC Schedule 80 Pipe With Female Adaptor	13	EA	0%	13.00	0.500	6.5		$ -	$ -	$ -	$ 14.24	$ 185.06	$ 185.06	
246	E0.0, E0.1	Electrical Utilities	Access Hole With Cover And Ground Lug	13	EA	0%	13.00	0.600	7.8		$ -	$ -	$ -	$ 17.08	$ 222.07	$ 222.07	
247	E0.0, E0.1	Electrical Utilities	Vibration Damper	13	EA	0%	13.00	0.500	6.5		$ -	$ -	$ -	$ 14.24	$ 185.06	$ 185.06	
			Lights														
248	E0.0, E0.1	Electrical Utilities	P1: Galleon Area and Roadway High Density LED Luminaire (2) 70 CRI, 4000K, 450mA Light squares with 26 LEDs Each and Type V Medium Optics MFR: COOPER LIGHTING SOLUTIONS - MCGRAW-EDISON MODEL: GALN-SB2B-740-U-5MQ WATTS: 73.9 W	1	EA	0%	1.00	2.000	2.0		$ -	$ -	$ -	$ 56.94	$ 56.94	$ 56.94	
249	E0.0, E0.1	Electrical Utilities	P2: Galleon II Area and Roadway Luminaire 800mA 2xLight Square Package 70CRI 4000K Fixture w/ Type IV Angled Backlight Control MFR: COOPER LIGHTING SOLUTIONS - McGraw-Edison MODEL: GALN-SA2B-740-U-T4BC WATTS: 72.8 W	5	EA	0%	5.00	2.000	10.0		$ -	$ -	$ -	$ 56.94	$ 284.70	$ 284.70	
250	E0.0, E0.1	Electrical Utilities	P3: Galleon II Area and Roadway Luminaire 800mA 1xLight Square Package 70CRI 4000K Fixture w/ Left Corner Backlight Control MFR: COOPER LIGHTING SOLUTIONS - McGraw-Edison MODEL: GALN-SA1B-740-U-LBC WATTS: 38.7 W	2	EA	0%	2.00	2.000	4.0		$ -	$ -	$ -	$ 56.94	$ 113.88	$ 113.88	
251	E0.0, E0.1	Electrical Utilities	P4: Galleon II Area and Roadway Luminaire 800mA 1xLight Square Package 70CRI 4000K Fixture w/ Right Corner Backlight Control MFR: COOPER LIGHTING SOLUTIONS - McGraw-Edison MODEL: GALN-SA1B-740-U-RBC WATTS: 38.7 W	2	EA	0%	2.00	2.000	4.0		$ -	$ -	$ -	$ 56.94	$ 113.88	$ 113.88	

DETAILED TAKEOFF / ESTIMATE
FEDERAL ESTIMATING, DRAFTING AND ENGINEERING SERVICES

FEDES

Project Name	CALIBER COLLISION	PROJECT COST	$ 302,576
Location	A1.47 ACRES OF LAND OUT OF LOT 6, BLOCK 1, LAKEVIEW ADDITION ROWLETT, TX	OVERHEAD COST	$ 30,258
Project Scope:	ELECTRICAL	PROFIT COST	$ 30,258
Addendum:	N/A	ADDITIONAL COST (If Any)	$ 2,337
Date:	Tuesday, November 3, 2026	TOTAL BID COST	$ 365,428

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
252	E0.0, E0.1	Electrical Utilities	P5: Galleon Area and Roadway High Density LED Luminaire (2) 70 CRI, 4000K, 450mA Light squares with 26 LEDs Each and Type IV Spill Light Eliminator Optics with House Side Shield MFR: COOPER LIGHTING SOLUTIONS - MCGRAW-EDISON MODEL: GALN-SB2B-740-U-SL4-HSS	3	EA	0%	3.00	2.000	6.0		$ -	$ -	$ -	$ 56.94	$ 170.82	$ 170.82	
253	E0.0, E0.1	Electrical Utilities	FE: Impact Elite LED Cylinder Luminaire (1) 70 CRI, 4000K, 350mA Light square with 16 LEDs and Type IV Forward Throw Optics MFR: COOPER LIGHTING SOLUTIONS - MCGRAW-EDISON (FORMERLY EATON) MODEL: ISC-SA1A-740-U-T4FT WATTS: 20.1 W	7	EA	0%	7.00	1.500	10.5		$ -	$ -	$ -	$ 42.71	$ 298.94	$ 298.94	
254	E0.0, E0.1	Electrical Utilities	G: Impact Elite LED Quarter Sphere Luminaire (1) 70 CRI, 4000K, 615mA Light square with 16 LEDs and Type IV Forward Throw Optics MFR: COOPER LIGHTING SOLUTIONS - MCGRAW-EDISON (FORMERLY EATON) MODEL: ISS-SA1C-740-U-T4FT WATTS: 34.2 W	6	EA	0%	6.00	1.500	9.0		$ -	$ -	$ -	$ 42.71	$ 256.23	$ 256.23	
			Controls														
255	E0.0, E0.1	Electrical Utilities	Single Pole Switch	1	EA	0%	1.00	0.500	0.5	$ 48.32	$ 48.32	$ -	$ -	$ 14.24	$ 14.24	$ 62.56	
256	E0.0, E0.1	Electrical Utilities	Gate Operator ROPENER ELITE MODEL SL3000U	1	EA	0%	1.00	2.000	2.0		$ -	$ -	$ -	$ 56.94	$ 56.94	$ 56.94	
257	E0.0, E0.1	Electrical Utilities	Junction Box WP	6	EA	0%	6.00	0.600	3.6		$ -	$ -	$ -	$ 17.08	$ 102.49	$ 102.49	
			Transformers														
258	E0.0, E0.1	Electrical Utilities	277/480V, 3P, 4W Utility Pole Mounted Transformer	1	EA	0%	1.00	14.000	14.0		$ -	$ -	$ -	$ 398.58	$ 398.58	$ 398.58	
			Trenching & Backfilling														
259	E0.0, E0.0	Electrical Utilities	Excavation & Backfilling (3' Deep x 1' Wide)	95	CY	0%	95.00	0.250	23.8		$ -	$ -	$ -	$ 7.12	$ 676.16	$ 676.16	
							LABOR HOURS	433.066	MATERIAL COST	$ 6,425.20	EQUIPMENT COST	$ -	LABOR COST	$ 12,329.38	SUBTOTAL		$ 18,754.58

TOTAL MATERIAL COST	$ 163,501
TOTAL LABOR COST	$ 114,523
TOTAL EQUIPMET COST	$ -
TOTAL LABOR HOURS	3,550

PRICING NOTES & QA | CALIBER COLLISION - ELECTRICAL

Lakeview Addition Lot 6 Block 1, Rowlett TX | Electrical, low voltage, fire alarm, site electrical (Div 26/27/28/33) | Open shop, private, new construction | 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)	$365,427.79	$365,427.79	$0.00	PROPOSAL SUMMARY E43

#	Direct cost component (all sheets)	Value	Notes
1	Material (before tax)	$163,500.68	Sum of line material, all detail sheets
2	Labor (base wage + fringe)	$114,523.23	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	$2,337.00	Div-01 items with no template line; itemized in section 6
5	Total labor hours	3,550.0	All detail sheets

#	Count	Value	Notes
1	Takeoff line items reviewed	259	All quantity lines on all detail sheets, incl. Div-01 template lines
2	Line items priced (non-zero)	244	
3	Lines left blank with NEED QUOTATION fill	122	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	2	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.

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.
- Material = published 2026 distributor web prices seen 2026-10-08 (Elliott Electric, Standard Electric Supply and others listed in section 17). Raceway priced with couplings every 10 ft and a connector every 50 ft; devices with box, ring and plate.

- Electrical gear (panels, switchboards, transformers, meter centers), light fixtures with a schedule, special devices and items with no published price are left blank with the NEED QUOTATION fill. Items the takeoff marks "by others" get 0 and the BY OTHERS fill.

- Breaker voltage class is assumed from the panel voltage stated in the takeoff (QO for 120/208 V, EDB / PowerPact for 480 V); confirm against the panel schedule.

3. WAGE BUILD-UP

#	Classification	Base wage $/hr	Fringe $/hr	Rate (base+fringe)	Statutory burden	Loaded $/hr	Source / effective date
1	Electrician (47-2111)	$28.37	$4.26	$32.63	$3.15	$35.78	OEWS 2025 Dallas-Fort Worth-Arlington median $28.37 [W1]
2	Working foreman (47-1011)	$36.65	$5.50	$42.15	$4.03	$46.18	OEWS 2025 Dallas MSA median $36.65 [W1]
3	Electrician helper (47-3013)	$21.39	$3.21	$24.60	$2.41	$27.01	OEWS 2025 Dallas MSA median $21.39 [W1]
4	Construction laborer (47-2061)	$21.14	$3.17	$24.31	$2.38	$26.69	OEWS 2025 Dallas MSA median $21.14 [W1]

#	Statutory burden component	Rate	Source
1	FICA (employer)	7.65%	
2	FUTA effective on electrician pay	0.07%	TX not a 2025 credit-reduction state [T1]
3	TX unemployment 2.7% on $9,000 (new employer; effective)	0.41%	Texas Workforce Commission 2026 [T1]
4	Workers comp 5190 $2.97/$100 - PROXY	2.97%	Texas 5190 rate not retrieved; Florida 2026 5190 manual rate used as a labeled proxy [T1]. Confirm carrier rate.

#	Division / sheet	Crew	Rate entered	Burden on rate	Cell
1	DETAILED TAKEOFF DIV-01 GENERAL REQUIREMENTS	Laborer	$24.31	9.80%	DETAILED TAKEOFF!O11
2	DETAILED TAKEOFF DIV-26 ELECTRICAL	3 electricians + 1 working foreman + 1	$32.92	9.65%	DETAILED TAKEOFF!O21
3	DETAILED TAKEOFF DIV-27 COMMUNICATION	3 electricians + 1 working foreman + 1	$32.92	9.65%	DETAILED TAKEOFF!O256

4	DETAILED TAKEOFF DIV-28 ELECTRONIC SAFETY & SECURITY	3 electricians + 1 working foreman + 1	$32.92	9.65%		DETAILED TAKEOFF!O291
5	DETAILED TAKEOFF DIV-33 UTILITIES	2 electricians + 2	$28.47	9.72%		DETAILED TAKEOFF!O333

Summary block 'BASE BID PRICE': LABOR TAX D25 = 9.66% (labor-weighted burden of the divisions in the block); MATERIAL SALES TAX D22 = 8.25%; OH 10%, profit 10%.
- Open-shop fringe 15% of base (assumption).
- Workers comp is a proxy from another state; see risk register.

4. MATERIAL PRICING BASIS AND LABOR PRODUCTIVITY

Ref	Material / item	Unit	Price carried	Source	Notes
E1/E2	Copper building wire THHN / XHHW-2, bare Cu	LF	0.21 to 26.99	Elliott Electric,	Distributor web prices
E1/E2	EMT, PVC, LFMC, FMC, RGS and fittings	LF/EA	0.32 to 595.66	Elliott Electric	
E1/E2	Square D breakers and safety switches	EA	19.86 to 7,544.36	Standard Electric Supply (sale),	superbreakers prices run high
E1/E2	Receptacles, switches, boxes, plates, sensors, contactor	EA	1.06 to 1,368.71	Elliott, Standard Electric, Gerrie,	
E2	Fire alarm (Fire-Lite / System Sensor)	EA	58.99 to 1,626.99	Protegis, Greenwave	Comparable models where takeoff model differs

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

- Rowlett combined sales tax 8.25% (6.25% state + local) from third-party rate pages; the Comptroller table did not load past "R" [T2]. 8.25% is the Texas maximum.
- New commercial building (new construction on a raw lot): contractor pays tax on materials, labor not taxed (Comptroller Pub. 94-116) [T2].

6. DIVISION 01 / GENERAL REQUIREMENTS BASIS

#	Item	Location	Carried	Status	Basis
1	Permit	row 12	$0.00	N/A - gap	City of Rowlett electrical permit fee schedule not retrieved; usually covered under the GC building permit with trade sub-permits. Not invented.
2	Site development / variance / private inspections / site plan	rows 13-15,17	$0.00	N/A	Not electrical scope.
3	Debris haul off	row 16	$0.00	N/A	GC dumpster assumed.
4	Project Supervision	PROPOSAL	$0.00	N/A	Working foreman in crew composite; PM in overhead
5	Submittals	PROPOSAL	$739.00	Carried	16 MH: gear, fixtures, devices, fire alarm submittals
6	Temporary Facilities	PROPOSAL	$0.00	N/A	Temporary power is a takeoff line (NEED QUOTATION)
7	Project Schedule	PROPOSAL	$0.00	N/A	Not required
8	Office Overheads	PROPOSAL	$0.00	N/A	In overhead %
9	Closeout	PROPOSAL	$739.00	Carried	16 MH: as-builts, panel directories, test reports, O&M
10	Permits	PROPOSAL	$0.00	N/A	Gap; see row 12
11	Allowances	PROPOSAL	$0.00	N/A	None
12	Mobilization	PROPOSAL	$859.00	Carried	3 mobilizations (underground/site, rough-in, trim) x 8 MH
13	Sub-Contracts	PROPOSAL	$0.00	N/A	Fire alarm and low voltage priced self-performed

7. VENDOR QUOTES REQUIRED / NEED QUOTATION LINES

#	Sheet!row	Item	Qty	Unit	Labor carried?	Reason material is blank
1	DETAILED TAKEOFF!38	4" PVC SCH 80	268.4	LF	Yes	PVC Sch 80 price not found
2	DETAILED TAKEOFF!39	3" RGS Conduit	217.82	LF	Yes	RGS size price not found
3	DETAILED TAKEOFF!40	4" RGS Conduit	33	LF	Yes	RGS size price not found
4	DETAILED TAKEOFF!44	Compression Lugs CU With 1- Hole, #3	2	EA	Yes	Lug #3 price not found
5	DETAILED TAKEOFF!53	Panel MDP: 600A, 277/480V, 3Ph, 4W, Main MLO, 65 KIC,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
6	DETAILED TAKEOFF!54	Panel HA: 250.A, 277/480V, 3Ph, 4W, Main MLO, 65 KIC,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
7	DETAILED TAKEOFF!55	Panel LA (Section 1): 400A, 120/20V8, 3Ph, 4W, Main MCB,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
8	DETAILED TAKEOFF!56	Panel LA (Section 2): 400A, 120/20V8, 3Ph, 4W, Main MLO,	1	EA	Yes	Electrical gear: no complete published price; vendor quote

9	DETAILED TAKEOFF!57	Panel LB: 225A, 120/20V8, 3Ph, 4W, Main MLO, 22 KIC,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
10	DETAILED TAKEOFF!71	(60A, 1P) Circuit	1	EA	Yes	1P 60A breaker not found / frame unconfirmed
11	DETAILED TAKEOFF!76	(400A, 3P) MCB	1	EA	Yes	Main breaker ships with panel; in gear quote
12	DETAILED TAKEOFF!77	30A Enclosed Circuit Breaker on Wireway	2	EA	Yes	Breaker rating not parsed
13	DETAILED TAKEOFF!80	(150KVA, 480V/120-208V, 3P, 4W)	1	EA	Yes	Electrical gear: no complete published price; vendor quote
14	DETAILED TAKEOFF!81	Corner Mounting	4	EA	Yes	Accessory not priced (no published price found)
15	DETAILED TAKEOFF!82	HSS 2"x2"x1/8" (2.5'	4	EA	Yes	Accessory not priced (no published price found)
16	DETAILED TAKEOFF!83	HSS 2"x2"x1/8"	4	EA	Yes	Accessory not priced (no published price found)
17	DETAILED TAKEOFF!84	Level-IT NSW-IN Leveling Mounts	4	EA	Yes	Accessory not priced (no published price found)
18	DETAILED TAKEOFF!90	#1/0 Equipment	2	EA	Yes	Grounding accessory: size/length not priced
19	DETAILED TAKEOFF!91	#3/0 Bonding Jumper	1	EA	Yes	Grounding accessory: size/length not priced
20	DETAILED TAKEOFF!94	#1/0 Clamp	5	EA	Yes	Grounding accessory: size/length not priced
21	DETAILED TAKEOFF!95	#4/0 Clamp	5	EA	Yes	Grounding accessory: size/length not priced
22	DETAILED TAKEOFF!96	3/4"x20' CU Clad	2	EA	Yes	Ground rod size/length not priced
23	DETAILED TAKEOFF!97	Equipment Ground	1	EA	Yes	Accessory not priced (no published price found)
24	DETAILED TAKEOFF!98	Grounding Bus Bar	4	EA	Yes	Accessory not priced (no published price found)
25	DETAILED TAKEOFF!99	Neutral Bus	1	EA	Yes	Accessory not priced (no published price found)
26	DETAILED TAKEOFF!101	Entrance System	1	EA	Yes	Accessory not priced (no published price found)
27	DETAILED TAKEOFF!104	1P/20A Disconnect Switch NEMA-3R	2	EA	Yes	1P 20A disconnect type not priced
28	DETAILED TAKEOFF!105	1P/20A, Combination Starter Disconnect	3	EA	Yes	1P 20A disconnect type not priced
29	DETAILED TAKEOFF!106	1P/30A Disconnect Switch NEMA-3R	2	EA	Yes	1P 30A disconnect type not priced
30	DETAILED TAKEOFF!107	1P/60A, Disconnect Switch NEMA-1R	1	EA	Yes	1P 60A disconnect type not priced
31	DETAILED TAKEOFF!114	(600A, 277/480V, 3P) Wall Mounted	1	EA	Yes	Electrical gear: no complete published price; vendor quote
32	DETAILED TAKEOFF!118	(277/480V, 3P,4W) Surge Suppressor,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
33	DETAILED TAKEOFF!138	1/2" RGS Conduit	6.23	LF	Yes	RGS size price not found
34	DETAILED TAKEOFF!139	3/4" RGS Conduit	23.1	LF	Yes	RGS size price not found
35	DETAILED TAKEOFF!140	1-1/4" RGS Conduit	13.2	LF	Yes	RGS size price not found
36	DETAILED TAKEOFF!148	Compression Lugs CU With 1- Hole, #3	12	EA	Yes	Lug #3 price not found
37	DETAILED TAKEOFF!151	Sawcut & Repair	16.5	LF	Yes	Concrete patch material and saw rental not priced
38	DETAILED TAKEOFF!159	20A, Locking	6	EA	Yes	Special/floor receptacle not specified or not priced
39	DETAILED TAKEOFF!164	50A Locking	6	EA	Yes	Special/floor receptacle not specified or not priced
40	DETAILED TAKEOFF!167	5HP, 480V, 3-Phase Motor Starter With	2	EA	Yes	Control/fire alarm/special device: model not priced or not specified
41	DETAILED TAKEOFF!168	Associated Switch (For Heat Lamp)	1	EA	Yes	Control/fire alarm/special device: model not priced or not specified
42	DETAILED TAKEOFF!169	Co Sensor, 24V AC (For Exhaust Fan	2	EA	Yes	Control/fire alarm/special device: model not priced or not specified
43	DETAILED TAKEOFF!170	Controls For (Big Ass Fans)	3	EA	Yes	Control/fire alarm/special device: model not priced or not specified
44	DETAILED TAKEOFF!171	Motor Rated Switch	8	EA	Yes	Control/fire alarm/special device: model not priced or not specified
45	DETAILED TAKEOFF!172	Push-Button Override Switch	2	EA	Yes	Control/fire alarm/special device: model not priced or not specified
46	DETAILED TAKEOFF!173	Thermostat (For EF)	1	EA	Yes	Control/fire alarm/special device: model not priced or not specified
47	DETAILED TAKEOFF!174	20A Relay with 24V AC Coil (for Louver	2	EA	Yes	Control/fire alarm/special device: model not priced or not specified
48	DETAILED TAKEOFF!175	Shut-Off Relay (for Big Ass Fan)	3	EA	Yes	Control/fire alarm/special device: model not priced or not specified
49	DETAILED TAKEOFF!178	1-Phase, 277V,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
50	DETAILED TAKEOFF!179	6KW, 277V. Electric Radiant Heater	2	EA	Yes	Control/fire alarm/special device: model not priced or not specified

51	DETAILED TAKEOFF!180	Neoprene Roof Jack	5	EA	Yes	Accessory not priced (no published price found)
52	DETAILED TAKEOFF!181	SS Draw Bend	5	EA	Yes	Accessory not priced (no published price found)
53	DETAILED TAKEOFF!182	Weather Head	5	EA	Yes	Accessory not priced (no published price found)
54	DETAILED TAKEOFF!194	A: LED High Bay MFR: METALUX	62	EA	Yes	Light fixture: schedule/manufacturer quote required
55	DETAILED TAKEOFF!195	A/NL: LED High Bay Night Light With 90 Min Battery Pack	2	EA	Yes	Light fixture: schedule/manufacturer quote required
56	DETAILED TAKEOFF!196	A2: SURFACE EXTERIOR - INDUSTRIAL LED	6	EA	Yes	Light fixture: schedule/manufacturer quote required
57	DETAILED TAKEOFF!197	AE: PENDANT EMERGENCY LED HIGH BAY MFR:	13	EA	Yes	Light fixture: schedule/manufacturer quote required
58	DETAILED TAKEOFF!198	B: 2X4 LED FLAT PANEL - 4000K -	24	EA	Yes	Electrical gear: no complete published price; vendor quote
59	DETAILED TAKEOFF!199	B1: 2X4 LED FLAT PANEL - 4000K - FROSTED LENS	1	EA	Yes	Electrical gear: no complete published price; vendor quote
60	DETAILED TAKEOFF!200	B1E: 2X4 LED FLAT PANEL - 4000K - FROSTED LENS	3	EA	Yes	Electrical gear: no complete published price; vendor quote
61	DETAILED TAKEOFF!201	BE: 2X4 LED FLAT PANEL - 4000K - FROSTED LENS	7	EA	Yes	Electrical gear: no complete published price; vendor quote
62	DETAILED TAKEOFF!202	BE/NL: 2X4 LED FLAT PANEL Night Light - 4000K -	1	EA	Yes	Electrical gear: no complete published price; vendor quote
63	DETAILED TAKEOFF!203	CE: 4' UTILITY LED STRIP WITH 90-MINUTE BATTERY	1	EA	Yes	Light fixture: schedule/manufacturer quote required
64	DETAILED TAKEOFF!204	D1: 6" LED DOWNLIGHT MFR: PORTFOLIO Model:	4	EA	Yes	Light fixture: schedule/manufacturer quote required
65	DETAILED TAKEOFF!205	D2: 6" LED WALL WASHER MFR: PORTFOLIO Model:	3	EA	Yes	Light fixture: schedule/manufacturer quote required
66	DETAILED TAKEOFF!206	FE: EXTERIOR WALL PACK WITH 90-MINUTE	7	EA	Yes	Light fixture: schedule/manufacturer quote required
67	DETAILED TAKEOFF!207	G: EXTERIOR WALL PACK MFR:	6	EA	Yes	Light fixture: schedule/manufacturer quote required
68	DETAILED TAKEOFF!208	X: EXIT SIGNS WITH STANDARD BATTERY PACK	6	EA	Yes	Light fixture: schedule/manufacturer quote required
69	DETAILED TAKEOFF!209	Chain With Hanger For Suspended	475.2	LF	Yes	Linear fixture: schedule/manufacturer quote
70	DETAILED TAKEOFF!212	2-Hour Max Override Switch	4	EA	Yes	Control/fire alarm/special device: model not priced or not specified
71	DETAILED TAKEOFF!216	Lighting Control	1	EA	Yes	Electrical gear: no complete published price; vendor quote
72	DETAILED TAKEOFF!217	Low Voltage Switch, LEVITON EMAX,	2	EA	Yes	Control/fire alarm/special device: model not priced or not specified
73	DETAILED TAKEOFF!218	Low Voltage Switch, LEVITON EMAX,	3	EA	Yes	Control/fire alarm/special device: model not priced or not specified
74	DETAILED TAKEOFF!219	Photocell, LEVITON #EZ-MAX-PCIND-	1	EA	Yes	Control/fire alarm/special device: model not priced or not specified
75	DETAILED TAKEOFF!224	Lighting Units Will Be	3	EA	Yes	Light fixture: schedule/manufacturer quote required
76	DETAILED TAKEOFF!225	Timeswitch S.P.S.T. MFR: PARAGON	1	EA	Yes	Control/fire alarm/special device: model not priced or not specified
77	DETAILED TAKEOFF!226	Thermostat MFR:	1	EA	Yes	Light fixture: schedule/manufacturer quote required
78	DETAILED TAKEOFF!227	Timeclock MFR: PARAGON 7218-00	1	EA	Yes	Light fixture: schedule/manufacturer quote required
79	DETAILED TAKEOFF!228	Photocell, LEVITON #EZ-MAX-PCOUT-	1	EA	Yes	Control/fire alarm/special device: model not priced or not specified

80	DETAILED TAKEOFF!233	(120/277V, 1P) Relays, LEVITON	24	EA	Yes	Control/fire alarm/special device: model not priced or not specified
81	DETAILED TAKEOFF!234	(18000A, 277V SCCR) LCP Panel, Surface Mounted	1	EA	Yes	Electrical gear: no complete published price; vendor quote
82	DETAILED TAKEOFF!235	Surge Suppressor	3	EA	Yes	Electrical gear: no complete published price; vendor quote
83	DETAILED TAKEOFF!236	Surge Suppressor,	1	EA	Yes	Electrical gear: no complete published price; vendor quote
84	DETAILED TAKEOFF!237	Voltage Barrier,	1	EA	Yes	Accessory not priced (no published price found)
85	DETAILED TAKEOFF!244	Junction Box	2	EA	Yes	Weatherproof box not priced
86	DETAILED TAKEOFF!245	Junction Box With 120v Power (For Co	4	EA	Yes	Control/fire alarm/special device: model not priced or not specified
87	DETAILED TAKEOFF!248	Temporary Allowance For Power	1	LS	Yes	Light fixture: schedule/manufacturer quote required
88	DETAILED TAKEOFF!249	Utility Location Prior to work Start	1	LS	No	Allowance/LS line with no stated value: GC allowance or quote needed
89	DETAILED TAKEOFF!270	"66" Telephone Blocks With Feeder	2	EA	Yes	Accessory not priced (no published price found)
90	DETAILED TAKEOFF!277	Junction Box Weather Proof For	3	EA	Yes	Weatherproof box not priced
91	DETAILED TAKEOFF!278	Patch Panel W/	1	EA	Yes	Electrical gear: no complete published price; vendor quote
92	DETAILED TAKEOFF!283	Sawcut & Repair	8.8	LF	Yes	Concrete patch material and saw rental not priced
93	DETAILED TAKEOFF!286	Wall Mounted	1	EA	Yes	Grounding accessory: size/length not priced
94	DETAILED TAKEOFF!294	2#16 FPLP Cable	461.93	LF	Yes	Fire alarm FPLP cable price not found (login-only distributors)
95	DETAILED TAKEOFF!295	2#14 FPLP Cable	598.71	LF	Yes	Fire alarm FPLP cable price not found (login-only distributors)
96	DETAILED TAKEOFF!314	Weatherproof Strobe/Backbox,	1	EA	Yes	Control/fire alarm/special device: model not priced or not specified
97	DETAILED TAKEOFF!319	Edco Surge Protection Device	2	EA	Yes	Control/fire alarm/special device: model not priced or not specified
98	DETAILED TAKEOFF!320	End Of Line Resistor	2	EA	Yes	Control/fire alarm/special device: model not priced or not specified
99	DETAILED TAKEOFF!322	Fire Alarm Remote Annunciator	1	EA	Yes	Control/fire alarm/special device: model not priced or not specified
100	DETAILED TAKEOFF!323	Fire Suppression Panel	1	EA	Yes	Control/fire alarm/special device: model not priced or not specified
101	DETAILED TAKEOFF!325	Paint Booth Device	2	EA	Yes	Control/fire alarm/special device: model not priced or not specified
102	DETAILED TAKEOFF!326	Remote Test Switch (Mounts On Single	6	EA	Yes	Control/fire alarm/special device: model not priced or not specified
103	DETAILED TAKEOFF!341	3" PVC SCH 80 Conduit With Pull	301.4	LF	Yes	PVC Sch 80 price not found
104	DETAILED TAKEOFF!345	Square Straight Lighting Pole (12')	13	EA	Yes	Pole price not found
105	DETAILED TAKEOFF!346	Anchor Bolts	52	EA	Yes	Accessory not priced (no published price found)
106	DETAILED TAKEOFF!347	20A Fuses	26	EA	Yes	Accessory not priced (no published price found)
107	DETAILED TAKEOFF!348	2'-0" Dia X 11'-0" H Pole Footing Reinforced With 5#5	13	EA	Yes	Light fixture: schedule/manufacturer quote required
108	DETAILED TAKEOFF!349	3/4"x8' Grounding	13	EA	Yes	Ground rod size/length not priced
109	DETAILED TAKEOFF!351	4"x12" Long PVC Schedule 80 Pipe	13	EA	Yes	Accessory not priced (no published price found)
110	DETAILED TAKEOFF!352	Access Hole With	13	EA	Yes	Lug #None price not found
111	DETAILED TAKEOFF!353	Vibration Damper	13	EA	Yes	Accessory not priced (no published price found)
112	DETAILED TAKEOFF!356	P1: Galleon Area and Roadway High Density LED	1	EA	Yes	Light fixture: schedule/manufacturer quote required
113	DETAILED TAKEOFF!357	P2: Galleon II Area and Roadway Luminaire 800mA	5	EA	Yes	Light fixture: schedule/manufacturer quote required
114	DETAILED TAKEOFF!358	P3: Galleon II Area and Roadway Luminaire 800mA	2	EA	Yes	Light fixture: schedule/manufacturer quote required
115	DETAILED TAKEOFF!359	P4: Galleon II Area and Roadway Luminaire 800mA	2	EA	Yes	Light fixture: schedule/manufacturer quote required

116	DETAILED TAKEOFF!360	P5: Galleon Area and Roadway High Density LED	3	EA	Yes	Light fixture: schedule/manufacturer quote required
117	DETAILED TAKEOFF!361	FE: Impact Elite LED Cylinder Luminaire (1) 70 CRI, 4000K,	7	EA	Yes	Light fixture: schedule/manufacturer quote required
118	DETAILED TAKEOFF!362	G: Impact Elite LED Quarter Sphere Luminaire (1) 70	6	EA	Yes	Light fixture: schedule/manufacturer quote required
119	DETAILED TAKEOFF!366	Gate Operator #OPENER ELITE	1	EA	Yes	Control/fire alarm/special device: model not priced or not specified
120	DETAILED TAKEOFF!367	Junction Box WP	6	EA	Yes	Weatherproof box not priced
121	DETAILED TAKEOFF!370	277/480V, 3P, 4W	1	EA	Yes	Electrical gear: no complete published price; vendor quote
122	DETAILED TAKEOFF!373	Excavation &	95	CY	Yes	Excavator rental/backfill material not priced

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	Panel voltages written "120/20V8"	Panels LA, LB	120/208 V	DETAILED	As received	None	Typo in takeoff text.
2	"XHWN" / "XHHN" conductor types	Feeders	Not standard insulation types;	Feeder section	XHHW-2 price	Low	
3	Fire alarm carried as an allowance line plus individual devices	LS allowance + device lines	Possible double count	Fire alarm section	Allowance line left blank (no value)	Moderate	Confirm whether the allowance replaces the device lines.

10. MISSING / ADDITIONAL SCOPE

#	Scope item	Reference	Carried?	Carried $	Exposure range	Notes
1	Electrical gear, scheduled fixtures, special devices (NEED QUOTATION lines)	Section 7	Labor only	$0	quotes required	Largest open cost
2	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	Gear and fixtures not priced	Vendor quotes	labor only	$60,000	$150,000	CRITICAL	Panels, MDP, transformer, fixtures, poles
2	No drawings	Quantities	as received	-$10,000	$15,000	HIGH	
3	Workers comp proxy rate	TX 5190 not	2.97/$100	-$1,000	$2,000	LOW	
4	Labor productivity	Judgment	section 18	-$15,000	$18,000	MODERATE	+/- 20%

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-26	181	179	88	$149,514.70	$95,411.95	
3	DETAILED TAKEOFF DIV-27	20	16	5	$1,085.98	$1,978.80	
4	DETAILED TAKEOFF DIV-28	26	23	9	$6,474.80	$4,803.09	
5	DETAILED TAKEOFF DIV-33	26	26	20	$6,425.20	$12,329.38	

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 365,427.79. Workbook after full LibreOffice recalculation: see section 1 variance column (live).

#	Issue (formula not modified)	Cells	Dollar impact now
1	Labor formula O on 2 line(s) multiplies by O892 instead of the division labor rate	DETAILED TAKEOFF!O151:O283	$548.00 restored

Detail
Rows 151, 283. Template labor on these rows is wrong. Formula not changed; the labor shortfall (with burden and OH&P) is carried in the summary division row ADDITIONAL COST input (col L): DETAILED TAKEOFF summary row 13: $357.39; DETAILED TAKEOFF summary row 14: $190.61

16. DEVIL'S ADVOCATE REVIEW

#	Area	Challenge and
1	Materials	Distributor web prices without trade discount; breakers at sale price. A real supplier quote will move material +/- 15%.
2	Labor	Unit hours are judgment; a NECA-based estimate may differ by +/- 20%.

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

Ref	Source	Used for	Data / effective	URL
W1	O*NET Local Wages (BLS OEWS 2025), Dallas-Fort Worth-Arlington	Wages	2025 data	https://www.onetonline.org/link/localwages/47-2111.00?st=TX
T1	Texas Workforce Commission; FL 2026 NCCI manual rate 5190 (proxy); Federal Register FUTA	Burden	2026	research files labor_tax_pilot.md, tax_burden_batch2.md
T2	Third-party Rowlett rate pages; Texas Comptroller Pub. 94-116	Sales tax	2026	research file tax_burden_batch2.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	#6 AWG CU THHN [LF]	60.5	0.011	$1.25	$75.62	$21.91	THHN Cu #6 $1.25/ft [E1/E2]; 0.011 MH/LF
DETAI	#3 AWG CU THHN [LF]	462	0.014	$2.56	$1,182.72	$212.93	THHN Cu #3 $2.56/ft [E1/E2]; 0.014 MH/LF
DETAI	#1 AWG CU THHN [LF]	88	0.018	$3.78	$332.64	$52.15	THHN Cu #1 $3.78/ft [E1/E2]; 0.018 MH/LF
DETAI	#1/0 AWG CU XHHN [LF]	99	0.02	$4.91	$486.09	$65.18	XHHW-2 Cu #1/0 $4.91/ft [E1/E2]; 0.02 MH/LF
DETAILED	#3/0 AWG CU XHHN [LF]	55	0.025	$6.61	$363.55	$45.27	THHN Cu used for XHHW (size not found) #3/0 $6.61/ft [E1/E2]; 0.025 MH/LF
DETAI	#4/0 AWG CU XHHN [LF]	511.5	0.028	$10.09	$5,161.03	$471.48	XHHW-2 Cu #4/0 $10.09/ft [E1/E2]; 0.028 MH/LF
DETAI	#250 MCM CU XHWN [LF]	1848	0.03	$11.63	$21,492.24	$1,825.08	XHHW-2 Cu #250 $11.63/ft [E1/E2]; 0.03 MH/LF
DETAI	#500 MCM CU XHWN [LF]	1425.6	0.045	$19.99	$28,497.74	$2,111.88	XHHW-2 Cu #500 $19.99/ft [E1/E2]; 0.045 MH/LF
DETAILED	1-1/2" EMT Conduit [LF]	22.07	0.08	$4.03	$88.93	$58.11	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]	137.5	0.13	$7.93	$1,090.38	$588.45	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	3" EMT Conduit [LF]	244.78	0.16	$9.93	$2,430.70	$1,289.32	EMT 3 in $87.56/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $9.93/LF; 0.16 MH/LF
DETAILED	4" EMT Conduit [LF]	55	0.22	$13.42	$738.10	$398.33	EMT 4 in $118.22/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $13.42/LF; 0.22 MH/LF
DETAI	4" PVC SCH 80 C0nduit [LF]	268.4	0.12	NEED QUOTE	$0.00	$1,060.29	0.120 MH/LF
DETAI	3" RGS Conduit [LF]	217.82	0.22	NEED QUOTE	$0.00	$1,577.55	0.22 MH/LF
DETAI	4" RGS Conduit [LF]	33	0.22	NEED QUOTE	$0.00	$239.00	0.22 MH/LF

DETAILED	Compression Lugs CU With 1- Hole, #6 CU Wire Heat Shrink Tubing For #6 CU Wire [EA]	4	0.15	$4.63	$18.52	$19.75	NSI 1-hole Cu lug #6 $4.63 [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]	2	0.3	NEED QUOTE	$0.00	$19.75	0.3 MH
DETAILED	Compression Lugs CU With 1- Hole, #1 CU Wire Heat Shrink Tubing For #1 CU Wire [EA]	8	0.3	$13.66	$109.28	$79.01	NSI 1-hole Cu lug #1 $13.66 [E1/E2]; heat shrink not priced; 0.3 MH
DETAILED	Compression Lugs CU With 1- Hole, #1/0 CU Wire Heat Shrink Tubing For #1/0 CU Wire [EA]	4	0.45	$12.84	$51.36	$59.26	NSI 1-hole Cu lug #1/0 $12.84 [E1/E2]; heat shrink not priced; 0.45 MH
DETAILED	Compression Lugs CU With 1- Hole, #3/0 CU Wire Heat Shrink Tubing For #3/0 CU Wire [EA]	4	0.45	$14.71	$58.84	$59.26	NSI 1-hole Cu lug #3/0 $14.71 [E1/E2]; heat shrink not priced; 0.45 MH
DETAILED	Compression Lugs CU With 1- Hole, #4/0 CU Wire Heat Shrink Tubing For #4/0 CU Wire [EA]	22	0.45	$16.93	$372.46	$325.91	NSI 1-hole Cu lug #4/0 $16.93 [E1/E2]; heat shrink not priced; 0.45 MH
DETAILED TAKE	Compression Lugs CU With 1- Hole, #250 MCM CU Wire Heat Shrink Tubing For #250 MCM CU Wire [EA]	8	0.6	$16.57	$132.56	$158.02	NSI 1-hole Cu lug #250 $16.57 [E1/E2]; heat shrink not priced; 0.6 MH
DETAILED TAKE	Compression Lugs CU With 1- Hole, #500 MCM CU Wire Heat Shrink Tubing For #500 MCM CU Wire [EA]	48	0.6	$41.89	$2,010.72	$948.10	NSI 1-hole Cu lug #500 $41.89 [E1/E2]; heat shrink not priced; 0.6 MH
DETAILED TAKE	Panel MDP: 600A, 277/480V, 3Ph, 4W, Main MLO, 65 KIC, 42 Poles Surface Mounted NEMA-1R (SQUARE-D) MFR: SQUARE [EA]	1	26	NEED QUOTE	$0.00	$855.92	Set, level, terminate 26.0 MH (judgment)
DETAILED TAKE	Panel HA: 250.A, 277/480V, 3Ph, 4W, Main MLO, 65 KIC, 42 Poles Surface Mounted NEMA-1R (SQUARE-D) [EA]	1	14	NEED QUOTE	$0.00	$460.88	Set, level, terminate 14.0 MH (judgment)
DETAILED TAKE	Panel LA (Section 1): 400A, 120/20V8, 3Ph, 4W, Main MCB, 22 KIC, 42 Poles Surface Mounted NEMA-1R (SQUARE-D) [EA]	1	20	NEED QUOTE	$0.00	$658.40	Set, level, terminate 20.0 MH (judgment)
DETAILED TAKE	Panel LA (Section 2): 400A, 120/20V8, 3Ph, 4W, Main MLO, 22 KIC, 42 Poles Surface Mounted NEMA-1R (SQUARE-D) [EA]	1	20	NEED QUOTE	$0.00	$658.40	Set, level, terminate 20.0 MH (judgment)
DETAILED TAKE	Panel LB: 225A, 120/20V8, 3Ph, 4W, Main MLO, 22 KIC, 42 Poles Surface Mounted NEMA-1R (SQUARE-D) [EA]	1	14.75	NEED QUOTE	$0.00	$485.57	Set, level, terminate 14.8 MH (judgment)
DETAILED	(15A, 3P) Circuit Breaker [EA]	5	0.6	$104.52	$522.60	$98.76	Square D QO315 (240V) $104.52 [E1/E2]; voltage class per 120/208V assumption; 0.6 MH
DETAILED	(20A, 1P) Circuit Breaker [EA]	101	0.3	$19.86	$2,005.86	$997.48	Square D QO120 $19.86 [E1/E2]; voltage class per 120/208V assumption; 0.3 MH
DETAILED	(20A, 1P) GFCI Circuit Breaker [EA]	24	0.3	$159.03	$3,816.72	$237.02	Square D QO120GFI $159.03 [E1/E2]; voltage class per 120/208V assumption; 0.3 MH
DETAILED	(20A, 2P) Circuit Breaker [EA]	3	0.4	$45.72	$137.16	$39.50	Square D QO220 $45.72 [E1/E2]; voltage class per 120/208V assumption; 0.4 MH
DETAILED	(20A, 2P) GFI Circuit Breaker [EA]	1	0.4	$281.88	$281.88	$13.17	Square D QO220GFI $281.88 [E1/E2]; voltage class per 120/208V assumption; 0.4 MH
DETAILED	(20A, 3P) Circuit Breaker [EA]	1	0.6	$169.26	$169.26	$19.75	Square D QO320 (240V) $169.26 [E1/E2]; voltage class per 120/208V assumption; 0.6 MH
DETAILED	(30A, 3P) Circuit Breaker [EA]	2	0.6	$104.52	$209.04	$39.50	Square D QO330 (240V) $104.52 [E1/E2]; voltage class per 120/208V assumption; 0.6 MH
DETAILED	(40A,3P) Circuit Breaker [EA]	1	0.6	$169.26	$169.26	$19.75	Square D QO340 (240V) $169.26 [E1/E2]; voltage class per 120/208V assumption; 0.6 MH
DETAILED	(50A, 2P) Circuit Breaker [EA]	4	0.4	$45.72	$182.88	$52.67	Square D QO250 $45.72 [E1/E2]; voltage class per 120/208V assumption; 0.4 MH
DETAILED	(50A, 1P) GFI Breaker Enclosure (SPA Type) [EA]	6	0.3	$159.03	$954.18	$59.26	Square D QO120GFI $159.03 [E1/E2]; voltage class per 120/208V assumption; 0.3 MH
DETAILED	(50A, 3P) Circuit Breaker [EA]	4	0.6	$104.52	$418.08	$79.01	Square D QO350 (240V) $104.52 [E1/E2]; voltage class per 120/208V assumption; 0.6 MH
DETAIL	(60A, 1P) Circuit Breaker [EA]	1	0.3	NEED QUOTE	$0.00	$9.88	0.3 MH
DETAILED	(60A, 3P) Circuit Breaker [EA]	2	0.6	$169.26	$338.52	$39.50	Square D QO360 (240V) $169.26 [E1/E2]; voltage class per 120/208V assumption; 0.6 MH
DETAILED	(100A, 3P) Circuit Breaker [EA]	1	0.6	$154.33	$154.33	$19.75	Square D QO3100 (240V) $154.33 [E1/E2]; voltage class per 120/208V assumption; 0.6 MH
DETAILED	(100A, 3P) HACR Circuit Breaker [EA]	2	0.6	$154.33	$308.66	$39.50	Square D QO3100 (240V) $154.33 [E1/E2]; voltage class per 120/208V assumption; 0.6 MH
DETAILED	(225A, 3P) Circuit Breaker [EA]	2	1.5	$1,863.23	$3,726.46	$98.76	Square D JDL36225 $1863.23 [E1/E2]; voltage class per 120/208V assumption; 1.5 MH
DETAIL	(400A, 3P) MCB Circuit Breaker [EA]	1	3	NEED QUOTE	$0.00	$98.76	3.0 MH

DETAILED	30A Enclosed Circuit Breaker on Wireway (For Radiant Heater) [EA]	2	0.5	NEED QUOTE	$0.00	$32.92	0.5 MH
DETAILED	(150KVA, 480V/120-208V, 3P, 4W) Transformer, SQUARE D #EXN150T3H [EA]	1	15	NEED QUOTE	$0.00	$493.80	Set, level, terminate 15.0 MH (judgment)
DETAI	Corner Mounting Bolts [EA]	4	0.5	NEED QUOTE	$0.00	$65.84	Labor by judgment
DETAI	HSS 2"x2"x1/8" (2.5' Long) [EA]	4	0.5	NEED QUOTE	$0.00	$65.84	Labor by judgment
DETAILED	HSS 2"x2"x1/8" Cross Member (1.5' Long) [EA]	4	0.5	NEED QUOTE	$0.00	$65.84	Labor by judgment
DETAILED	Level-IT NSW-IN Leveling Mounts With 5/8" HEX Rated 2800Lbs [EA]	4	0.5	NEED QUOTE	$0.00	$65.84	Labor by judgment
DETAILED	#4 CU Grounding Wire [LF]	49.5	0.013	$2.03	$100.48	$21.18	THHN Cu #4 $2.03/ft [E1/E2]; 0.013 MH/LF (insulated/bare not stated; THHN price used)
DETAILED	#1/0 CU Grounding Wire [LF]	22	0.02	$4.91	$108.02	$14.48	XHHW-2 Cu used (THHN size not found) #1/0 $4.91/ft [E1/E2]; 0.02 MH/LF
DETAILED	#1/0 Grounding Electrode Conductor [LF]	66	0.02	$4.91	$324.06	$43.45	XHHW-2 Cu used (THHN size not found) #1/0 $4.91/ft [E1/E2]; 0.02 MH/LF
DETAI	#1/0 Equipment Bonding Jumper [EA]	2	0.5	NEED QUOTE	$0.00	$32.92	0.5 MH
DETAI	#3/0 Bonding Jumper [EA]	1	0.5	NEED QUOTE	$0.00	$16.46	0.5 MH
DETAILED	#3/0 Grounding Electrode Conductor [LF]	22	0.025	$6.61	$145.42	$18.11	THHN Cu #3/0 $6.61/ft [E1/E2]; 0.025 MH/LF (insulated/bare not stated; THHN price used)
DETAILED	#1/0 Lugs [EA]	5	0.45	$12.84	$64.20	$74.07	NSI 1-hole Cu lug #1/0 $12.84 [E1/E2]; heat shrink not priced; 0.45 MH
DETAI	#1/0 Clamp [EA]	5	0.5	NEED QUOTE	$0.00	$82.30	0.5 MH
DETAI	#4/0 Clamp [EA]	5	0.5	NEED QUOTE	$0.00	$82.30	0.5 MH
DETAI	3/4"x20' CU Clad Ground Rod [EA]	2	1.75	NEED QUOTE	$0.00	$115.22	1.75 MH
DETAI	Equipment Ground Bus [EA]	1	0.5	NEED QUOTE	$0.00	$16.46	Labor by judgment
DETAI	Grounding Bus Bar [EA]	4	0.5	NEED QUOTE	$0.00	$65.84	Labor by judgment
DETAI	Neutral Bus [EA]	1	0.5	NEED QUOTE	$0.00	$16.46	Labor by judgment
DETAI	Exothermic Welds [EA]	2	0.5	$31.96	$63.92	$32.92	Cadweld #115 shot $31.96 (mold not priced) [E1]; 0.5 MH
DETAI	Entrance System Bonding Termination [EA]	1	0.5	NEED QUOTE	$0.00	$16.46	Labor by judgment
DETAILED	1P/20A Disconnect Switch NEMA-3R (For Signage) [EA]	2	2	NEED QUOTE	$0.00	$131.68	2.0 MH
DETAILED	1P/20A, Combination Starter Disconnect Switch [EA]	3	2	NEED QUOTE	$0.00	$197.52	2.0 MH
DETAILED	1P/30A Disconnect Switch NEMA-3R (For Heater) [EA]	2	2	NEED QUOTE	$0.00	$131.68	2.0 MH
DETAILED	1P/60A, Disconnect Switch NEMA-1R (for Water Heater) [EA]	1	2.5	NEED QUOTE	$0.00	$82.30	2.5 MH
DETAI	2P/30A Disconnect Switch NEMA-1R (For UH) [EA]	1	2	$143.76	$143.76	$65.84	Square D DU221RB 2P 30A NF 3R $143.76 [E1]; 2.0 MH
DETAILED	3P/25AF/30AT Fuse disconnect Switch NEMA-3R (For RTU) [EA]	1	2	$290.00	$290.00	$65.84	Square D H32x 30A 240V 3R $290.0 [E1/E2] (sized up from 25A); fuses not priced; 2.0 MH
DETAILED	3P/30A, Disconnect Switch NEMA-3R (For EF) [EA]	2	2	$290.00	$580.00	$131.68	Square D H32x 30A 240V 3R $290.0 [E1/E2]; fuses not priced; 2.0 MH
DETAILED	3P/60A, Disconnect Switch NEMA 1R (For Spray Booth) [EA]	2	2.5	$250.47	$500.94	$164.60	Square D H32x 60A 240V $250.47 [E1/E2]; fuses not priced; 2.5 MH
DETAILED	3P/60A, Disconnect Switch NEMA 3R (For Compressor) [EA]	1	2.5	$717.75	$717.75	$82.30	Square D H32x 60A 240V 3R $717.75 [E1/E2]; fuses not priced; 2.5 MH
DETAILED	3P/70AF/100AT Fuse disconnect Switch NEMA-3R (For RTU) [EA]	2	3.5	$760.52	$1,521.04	$230.44	Square D H32x 100A 240V 3R $760.52 [E1/E2] (sized up from 70A); fuses not priced; 3.5 MH
DETAILED	(600A, 277/480V, 3P) Wall Mounted Disconnect And Tran socket [EA]	1	26	NEED QUOTE	$0.00	$855.92	Set, level, terminate 26.0 MH (judgment)
DETAILED TAKE	(600A, 600V, 3P, 4W) Fusible Heavy Duty Disconnect Switch NEMA 3R, With 600A Class "J" Fuses [EA]	1	12	$7,544.36	$7,544.36	$395.04	Square D H36x 600A 600V 3R $7544.36 [E1/E2]; fuses not priced; 12.0 MH
DETAILED	(277/480V, 3P,4W) Surge Suppressor, SURGE SUPRESSION INC # STM-30-3Y2 [EA]	1	3	NEED QUOTE	$0.00	$98.76	Set, level, terminate 3.0 MH (judgment)
DETAI	4"x4"x24" Wireway [EA]	1	1.5	$71.76	$71.76	$49.38	B-Line 4424G 4x4x24 wireway $71.76 [E2]; 1.5 MH
DETAI	#12 AWG CU THHN [LF]	4745.4	0.006	$0.29	$1,376.17	$937.31	THHN Cu #12 $0.29/ft [E1/E2]; 0.006 MH/LF
DETAI	#10 AWG CU THHN [LF]	16426.3	0.007	$0.44	$7,227.57	$3,785.28	THHN Cu #10 $0.44/ft [E1/E2]; 0.007 MH/LF
DETAI	#8 AWG CU THHN [LF]	5009.4	0.009	$0.81	$4,057.61	$1,484.19	THHN Cu #8 $0.81/ft [E1/E2]; 0.009 MH/LF
DETAI	#6 AWG CU THHN [LF]	1646.7	0.011	$1.25	$2,058.38	$596.30	THHN Cu #6 $1.25/ft [E1/E2]; 0.011 MH/LF
DETAI	#4 AWG CU THHN [LF]	2860	0.013	$2.03	$5,805.80	$1,223.97	THHN Cu #4 $2.03/ft [E1/E2]; 0.013 MH/LF
DETAI	#3 AWG CU THHN [LF]	3004.1	0.014	$2.56	$7,690.50	$1,384.53	THHN Cu #3 $2.56/ft [E1/E2]; 0.014 MH/LF
DETAILED	1/2" EMT Conduit [LF]	1361.5	0.035	$0.64	$871.36	$1,568.72	EMT 1/2 in $5.92/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $0.64/LF; 0.035 MH/LF

DETAILED	3/4" EMT Conduit [LF]	5712.3	0.045	$1.11	$6,340.65	$8,462.20	EMT 3/4 in $10.31/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.11/LF; 0.045 MH/LF
DETAILED	1" EMT Conduit [LF]	414.7	0.055	$1.99	$825.25	$750.86	EMT 1 in $18.69/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.99/LF; 0.055 MH/LF
DETAILED	1-1/4" EMT Conduit [LF]	1651.1	0.065	$3.27	$5,399.10	$3,533.02	EMT 1-1/4 in $30.34/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $3.27/LF; 0.065 MH/LF
DETAILED	3" EMT Conduit With Pull String [LF]	26.77	0.16	$9.93	$265.87	$141.02	EMT 3 in $87.56/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $9.93/LF; 0.16 MH/LF
DETAI	3/4" LFMC Conduit [LF]	19.8	0.08	$2.96	$58.61	$52.15	UL liquidtight 3/4 in $2.96/ft [E2]; 0.08 MH/LF
DETAI	1-1/4" LFMC Conduit [LF]	16.5	0.09	$7.55	$124.58	$48.89	UL liquidtight 1-1/4 in $7.55/ft [E2]; 0.09 MH/LF
DETAI	1/2" RGS Conduit [LF]	6.23	0.22	NEED QUOTE	$0.00	$45.09	0.22 MH/LF
DETAI	3/4" RGS Conduit [LF]	23.1	0.22	NEED QUOTE	$0.00	$167.30	0.22 MH/LF
DETAI	1-1/4" RGS Conduit [LF]	13.2	0.22	NEED QUOTE	$0.00	$95.60	0.22 MH/LF
DETAI	1" PVC SCH 40 Conduit [LF]	573.1	0.04	$0.66	$378.25	$754.66	PVC Sch 40 1 in $0.66/ft [E1/E2]; 0.04 MH/LF
DETAI	1-1/4" PVC SCH 40 Conduit [LF]	275.45	0.045	$0.92	$253.41	$408.05	PVC Sch 40 1-1/4 in $0.92/ft [E1/E2]; 0.045 MH/LF
DETAILED	Compression Lugs CU With 1- Hole, #8CU Wire Heat Shrink Tubing For #8 CU Wire [EA]	20	0.15	$5.39	$107.80	$98.76	NSI 1-hole Cu lug #8 $5.39 [E1/E2]; heat shrink not priced; 0.15 MH
DETAILED	Compression Lugs CU With 1- Hole, #6 CU Wire Heat Shrink Tubing For #6 CU Wire [EA]	4	0.15	$4.63	$18.52	$19.75	NSI 1-hole Cu lug #6 $4.63 [E1/E2]; heat shrink not priced; 0.15 MH
DETAILED	Compression Lugs CU With 1- Hole, #4 CU Wire Heat Shrink Tubing For #4 CU Wire [EA]	20	0.3	$5.90	$118.00	$197.52	NSI 1-hole Cu lug #4 $5.9 [E1/E2]; heat shrink not priced; 0.3 MH
DETAILED	Compression Lugs CU With 1- Hole, #3 CU Wire Heat Shrink Tubing For #3 CU Wire [EA]	12	0.3	NEED QUOTE	$0.00	$118.51	0.3 MH
DETAILED	Sawcut & Repair Concrete For Conduit Installation [LF]	16.5	0.5	NEED QUOTE	$0.00	$0.00	0.5 MH/LF
DETAILED	20A, Controlled Duplex Receptacle, Split-Wired, LEVITON #5362 [EA]	12	0.7	$19.69	$236.28	$276.53	Spec-grade duplex P&S 5362W $8.09 (controlled marking not priced) + box/ring/plate [E2]; 0.7 MH
DETAILED	20A, Controlled Quad Receptacle, Split-Wired, LEVITON #5362 [EA]	13	0.9	$31.64	$411.32	$385.16	2 x spec-grade 20A duplex P&S 5362W $8.09 + box/ring/2 plates [E1/E2]; 0.9 MH
DETAILED	20A, Duplex Receptacle NEMA 5-20R [EA]	21	0.6	$19.69	$413.49	$414.79	Spec-grade 20A duplex P&S 5362W $8.09 + box/ring/plate [E2]; 0.6 MH
DETAI	20A, Duplex Receptacle, GFCI, NEMA 5-20R [EA]	8	0.7	$49.43	$395.44	$184.35	Eaton SGFH20W GFCI $37.83 + box/ring/plate [E1]; 0.7 MH
DETAI	20A, Duplex Receptacle, GFCI/WP, NEMA 5-20R [EA]	9	0.7	$49.43	$444.87	$207.40	Eaton SGFH20W GFCI $37.83 + box/ring/plate [E1]; 0.7 MH
DETAI	20A, Locking Receptacle, GFCI (L5-20R) [EA]	6	1	NEED QUOTE	$0.00	$197.52	1.0 MH
DETAILED	20A, Quad Receptacle [EA]	3	0.9	$31.64	$94.92	$88.88	2 x spec-grade 20A duplex P&S 5362W $8.09 + box/ring/2 plates [E1/E2]; 0.9 MH
DETAILED	20A, Quad Receptacle, GFCI [EA]	5	0.9	$31.64	$158.20	$148.14	2 x spec-grade 20A duplex P&S 5362W $8.09 + box/ring/2 plates [E1/E2]; 0.9 MH
DETAI	20A, Simplex Receptacle, GFCI [EA]	1	0.7	$49.43	$49.43	$23.04	Eaton SGFH20W GFCI $37.83 + box/ring/plate [E1]; 0.7 MH
DETAILED	20A, Special Purpose Receptacle, NEMA 6-20 (For Lift Control) [EA]	1	0.7	$48.46	$48.46	$23.04	Hubbell receptacle (6-20) $36.86 + box/ring/plate [E1/E2]; 0.7 MH
DETAI	50A Locking Receptacle [EA]	6	1	NEED QUOTE	$0.00	$197.52	1.0 MH
DETAILED	5HP, 480V, 3-Phase Motor Starter With 24V AC Control Coil [EA]	2	2	NEED QUOTE	$0.00	$131.68	2.0 MH install
DETAI	Associated Switch (For Heat Lamp) [EA]	1	0.75	NEED QUOTE	$0.00	$24.69	0.75 MH install
DETAILED	Co Sensor, 24V AC (For Exhaust Fan Control) [EA]	2	0.75	NEED QUOTE	$0.00	$49.38	0.75 MH install
DETAI	Controls For (Big Ass Fans) [EA]	3	0.75	NEED QUOTE	$0.00	$74.07	0.75 MH install
DETAI	Motor Rated Switch [EA]	8	0.75	NEED QUOTE	$0.00	$197.52	0.75 MH install
DETAI	Push-Button Override Switch [EA]	2	0.75	NEED QUOTE	$0.00	$49.38	0.75 MH install
DETAI	Thermostat (For EF) [EA]	1	0.75	NEED QUOTE	$0.00	$24.69	0.75 MH install
DETAILED	20A Relay with 24V AC Coil (for Louver Actuator control via CO Sensor output) [EA]	2	0.75	NEED QUOTE	$0.00	$49.38	0.75 MH install
DETAI	Shut-Off Relay (for Big Ass Fan) [EA]	3	0.75	NEED QUOTE	$0.00	$74.07	0.75 MH install
DETAI	1-Phase, 277V, 12kw Heater Panel [EA]	1	14	NEED QUOTE	$0.00	$460.88	Set, level, terminate 14.0 MH (judgment)
DETAI	6KW, 277V. Electric Radiant Heater [EA]	2	2	NEED QUOTE	$0.00	$131.68	2.0 MH install
DETAI	Neoprene Roof Jack [EA]	5	0.5	NEED QUOTE	$0.00	$82.30	Labor by judgment
DETAI	SS Draw Bend [EA]	5	0.5	NEED QUOTE	$0.00	$82.30	Labor by judgment
DETAI	Weather Head RACO CLAMP # 2408 2" [EA]	5	0.5	NEED QUOTE	$0.00	$82.30	0.5 MH
DETAI	#12 AWG CU THHN [LF]	2615.8	0.006	$0.29	$758.58	$516.67	THHN Cu #12 $0.29/ft [E1/E2]; 0.006 MH/LF
DETAI	#10 AWG CU THHN [LF]	7192.9	0.007	$0.44	$3,164.88	$1,657.53	THHN Cu #10 $0.44/ft [E1/E2]; 0.007 MH/LF
DETAILED	1/2" EMT Conduit [LF]	1379.36	0.035	$0.64	$882.79	$1,589.29	EMT 1/2 in $5.92/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $0.64/LF; 0.035 MH/LF

DETAILED	3/4" EMT Conduit [LF]	2256.76	0.045	$1.11	$2,505.00	$3,343.16	EMT 3/4 in $10.31/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.11/LF; 0.045 MH/LF
DETAILED TAKE	A: LED High Bay MFR: METALUX Model: PDR-VHBLED-LD1-15-W-UNV-L950-CD1-90CRI Watts: 111 [EA]	62	2	NEED QUOTE	$0.00	$4,082.08	2.0 MH install
DETAILED TAKE	A/NL: LED High Bay Night Light With 90 Min Battery Pack MFR: METALUX Model: PDR-VHBLED-LD1-15-W-UNV-L950-CD1-9 [EA]	2	2.2	NEED QUOTE	$0.00	$144.85	2.2 MH install
DETAILED TAKE	A2: SURFACE EXTERIOR - INDUSTRIAL LED HI-BAY MFR: METALUX Model: 4VT2-LD4-8-DR-W-UNV-L840-CD1-WL-U Watts:56 [EA]	6	2	NEED QUOTE	$0.00	$395.04	2.0 MH install
DETAILED TAKE	AE: PENDANT EMERGENCY LED HIGH BAY MFR: METALUX Model: PDR-VHBLED-LD1-15-W-UNV-L950-CD1-90CRI-EL20W Watts: 111 [EA]	13	2	NEED QUOTE	$0.00	$855.92	2.0 MH install
DETAILED	B: 2X4 LED FLAT PANEL - 4000K - FROSTED LENS MFR: SATCO Model: 65-572 Watts: 50 [EA]	24	14	NEED QUOTE	$0.00	$11,061.12	Set, level, terminate 14.0 MH (judgment)
DETAILED TAKE	B1: 2X4 LED FLAT PANEL - 4000K - FROSTED LENS WITH DRYWALL KIT MFR: SATCO Model: 572 Watts: 50 [EA]	1	14	NEED QUOTE	$0.00	$460.88	Set, level, terminate 14.0 MH (judgment)
DETAILED TAKE	B1E: 2X4 LED FLAT PANEL - 4000K - FROSTED LENS WITH 90-MINUTE BATTERY PACK WITH DRYWALL KIT MFR: SATCO Model: [EA]	3	14	NEED QUOTE	$0.00	$1,382.64	Set, level, terminate 14.0 MH (judgment)
DETAILED TAKE	BE: 2X4 LED FLAT PANEL - 4000K - FROSTED LENS WITH 90-MINUTE BATTERY PACK MFR: SATCO Model: 65-576 Watts: 50 [EA]	7	14	NEED QUOTE	$0.00	$3,226.16	Set, level, terminate 14.0 MH (judgment)
DETAILED TAKE	BE/NL: 2X4 LED FLAT PANEL Night Light - 4000K - FROSTED LENS WITH 90-MINUTE BATTERY PACK MFR: SATCO Model: 65- [EA]	1	14	NEED QUOTE	$0.00	$460.88	Set, level, terminate 14.0 MH (judgment)
DETAILED TAKE	CE: 4' UTILITY LED STRIP WITH 90-MINUTE BATTERY PACK MFR: METALUX Model: 4SNLED-LD5-44SL-LN-UNV-L840-CD1-EL7W [EA]	1	1.2	NEED QUOTE	$0.00	$39.50	1.2 MH install
DETAILED TAKE	D1: 6" LED DOWNLIGHT MFR: PORTFOLIO Model: LD6 B15 D010 / EU6B10208040 / 6LBM2LI Watts: 19 [EA]	4	0.8	NEED QUOTE	$0.00	$105.34	0.8 MH install
DETAILED TAKE	D2: 6" LED WALL WASHER MFR: PORTFOLIO Model: LD6 B15 D010 / EU6B10208040 / 6LBSW2LI Watts: 19 [EA]	3	1	NEED QUOTE	$0.00	$98.76	1.0 MH install
DETAILED TAKE	FE: EXTERIOR WALL PACK WITH 90-MINUTE BATTERY PACK. 9'-0" A.F.F. MFR: MCGRAW-EDISON Model: ISS-SAI-A-740-LED-U [EA]	7	1.7	NEED QUOTE	$0.00	$391.75	1.7 MH install
DETAILED	G: EXTERIOR WALL PACK MFR: MCGRAW-EDISON Model: ISS-SAIC-740-U-T4FT-CBA Watts: 46 [EA]	6	1.5	NEED QUOTE	$0.00	$296.28	1.5 MH install
DETAILED TAKE	X: EXIT SIGNS WITH STANDARD BATTERY PACK WITH SELF DIAGNOSTICS MFR: COOPER LIGHTING Model: LPX-7 (UNIVERSAL) W [EA]	6	1	NEED QUOTE	$0.00	$197.52	1.0 MH install
DETAILED	Chain With Hanger For Suspended Lights 3' Long (For B, B1, B1E, BE, BE/NL) [LF]	475.2	0.15	NEED QUOTE	$0.00	$2,346.54	0.15 MH/LF
DETAIL	2-Hour Max Override Switch [EA]	4	0.75	NEED QUOTE	$0.00	$98.76	0.75 MH install
DETAILED	3-Way Wall Switch With Vacancy Sensor, LEVITON OSSMT-MDX [EA]	2	0.6	$155.12	$310.24	$39.50	Leviton OSSMT-MDW $155.12 [E1/E2]; 0.6 MH
DETAIL	All OFF Switch [EA]	4	0.5	$48.32	$193.28	$65.84	Hubbell HBL1221W $36.72 + box/ring/plate [E1]; 0.5 MH
DETAILED	Ceiling Mounted Occupancy Sensor, LEVITON, OSC20-MOW WITH OPP20-OD2 [EA]	7	0.75	$207.54	$1,452.78	$172.83	Leviton OSC20-M0W $207.54 [E1/E2]; 0.75 MH
DETAIL	Lighting Control Panel [EA]	1	14	NEED QUOTE	$0.00	$460.88	Set, level, terminate 14.0 MH (judgment)
DETAILED	Low Voltage Switch, LEVITON EMAX, OOLVS-O4W OR Approved Equal [EA]	2	0.75	NEED QUOTE	$0.00	$49.38	0.75 MH install
DETAILED	Low Voltage Switch, LEVITON EMAX, OOLVS-O8W OR Approved Equal [EA]	3	0.75	NEED QUOTE	$0.00	$74.07	0.75 MH install
DETAIL	Photocell, LEVITON #EZ-MAX-PCIND-000 [EA]	1	0.75	NEED QUOTE	$0.00	$24.69	0.75 MH install
DETAIL	Single Pole Switch [EA]	1	0.5	$48.32	$48.32	$16.46	Hubbell HBL1221W $36.72 + box/ring/plate [E1]; 0.5 MH
DETAILED	Single Pole Switch With Vacancy Sensor, LEVITON OSSMT-MDX [EA]	7	0.6	$155.12	$1,085.84	$138.26	Leviton OSSMT-MDW $155.12 [E1/E2]; 0.6 MH
DETAIL	Single Pole Switch, WP [EA]	2	0.5	$48.32	$96.64	$32.92	Hubbell HBL1221W $36.72 + box/ring/plate [E1]; 0.5 MH
DETAILED	Wall Switch With occupancy Sensor, LEVITON, OSSMT-MDX [EA]	4	0.6	$155.12	$620.48	$79.01	Leviton OSSMT-MDW $155.12 [E1/E2]; 0.6 MH

DETAILED	Lighting Units Will Be Provided By Manufacturer [EA]	3	1	NEED QUOTE	$0.00	$98.76	1.0 MH install
DETAILED	Timeswitch S.P.S.T. MFR: PARAGON Contacts Rated 40A [EA]	1	0.75	NEED QUOTE	$0.00	$24.69	0.75 MH install
DETAI	Thermostat MFR: AQUASTAT [EA]	1	1	NEED QUOTE	$0.00	$32.92	1.0 MH install
DETAILED	Timeclock MFR: PARAGON 7218-00 Spring Wound Carry-Over S.P.S.T. Contacts Rated 40A [EA]	1	1	NEED QUOTE	$0.00	$32.92	1.0 MH install
DETAI	Photocell, LEVITON #EZ-MAX-PCOUT-000 [EA]	1	0.75	NEED QUOTE	$0.00	$24.69	0.75 MH install
DETAILED	8 Poles Lighting Contactor Model: LG-80-V02 SQUARE D [EA]	2	3	$1,275.61	$2,551.22	$197.52	Square D 8903LG80V02 contactor $1275.61 [E1/E2]; 3.0 MH
DETAILED	(20A, 1P) Lock On Handle Circuit Breaker [EA]	1	0.3	$19.86	$19.86	$9.88	Square D QO120 $19.86 [E1/E2]; voltage class per 120/208V assumption; 0.3 MH
DETAI	(120/277V, 1P) Relays, LEVITON #L3H [EA]	24	0.75	NEED QUOTE	$0.00	$592.56	0.75 MH install
DETAILED TAKE	(18000A, 277V SCCR) LCP Panel, Surface Mounted LEVITON EZ-MAX RELAY PANEL EZ-MAX-H-R24BD-H00 [EA]	1	248	NEED QUOTE	$0.00	$8,164.16	Set, level, terminate 248.0 MH (judgment)
DETAI	Surge Suppressor Breakers [EA]	3	3	NEED QUOTE	$0.00	$296.28	Set, level, terminate 3.0 MH (judgment)
DETAILED	Surge Suppressor, SURGE SUPPRESSION INC. #S-SPT-120 [EA]	1	3	NEED QUOTE	$0.00	$98.76	Set, level, terminate 3.0 MH (judgment)
DETAI	Voltage Barrier, LEVITON #RGBAR-EZH [EA]	1	0.5	NEED QUOTE	$0.00	$16.46	Labor by judgment
DETAI	A4-11/16"X-18" Junction Box (For Twin Post Rack) [EA]	1	0.5	$10.34	$10.34	$16.46	RACO 232 4 in sq box $9.28 + blank cover $1.06 [E2]; 0.5 MH
DETAI	Ceiling Mounted Junction Box [EA]	12	0.5	$10.34	$124.08	$197.52	RACO 232 4 in sq box $9.28 + blank cover $1.06 [E2]; 0.5 MH
DETAI	Dual-Gang Junction Box [EA]	18	0.5	$10.34	$186.12	$296.28	RACO 232 4 in sq box $9.28 + blank cover $1.06 [E2]; 0.5 MH
DETAI	Junction Box (For Heat Lamp) [EA]	1	0.5	$10.34	$10.34	$16.46	RACO 232 4 in sq box $9.28 + blank cover $1.06 [E2]; 0.5 MH
DETAILED	Junction Box Weather Proof (For Signage) [EA]	2	0.6	NEED QUOTE	$0.00	$39.50	0.6 MH
DETAILED	Junction Box With 120v Power (For Co Censor controller) [EA]	4	0.75	NEED QUOTE	$0.00	$98.76	0.75 MH install
DETAILED	Temporary Allowance For Power And Lighting (17572 SF) [LS]	1	1.2	NEED QUOTE	$0.00	$39.50	1.2 MH install
DETAI	Utility Location Prior to work Start [LS]	1	0	NEED QUOTE	$0.00	$0.00	No basis stated
DETAILED	Testing Of All Cables And Circuit Wiring After Installation [LS]	1	24	$0.00	$0.00	$790.08	24 MH testing (judgment)
DETAILED	3/4" EMT Conduit With Pull String [LF]	445.5	0.045	$1.11	$494.51	$659.96	EMT 3/4 in $10.31/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.11/LF; 0.045 MH/LF
DETAILED	2" EMT Conduit With Pull String [LF]	14.56	0.1	$4.82	$70.20	$47.94	EMT 2 in $43.47/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $4.82/LF; 0.1 MH/LF
DETAI	1" PVC Conduit With Pull String [LF]	8.96	0.04	$0.66	$5.92	$11.81	PVC Sch 40 1 in $0.66/ft [E1/E2]; 0.04 MH/LF
DETAILED	2"x4" Phone/ Data Outlet [EA]	29	0.5	$7.74	$224.46	$477.34	4 in sq box + 1-gang ring (rough-in only) [E1]; 0.5 MH; jacks/cabling by others
DETAILED	2"x4" Tele/Data Outlet To Be Mounted Below Finish Ceiling Centered Over Coffee Bar [EA]	1	0.5	$7.74	$7.74	$16.46	4 in sq box + 1-gang ring (rough-in only) [E1]; 0.5 MH; jacks/cabling by others
DETAILED	TV Outlet [EA]	1	0.5	$7.74	$7.74	$16.46	4 in sq box + 1-gang ring (rough-in only) [E1]; 0.5 MH; jacks/cabling by others
DETAILED	"66" Telephone Blocks With Feeder Pairs Termination [EA]	2	0.5	NEED QUOTE	$0.00	$32.92	Labor by judgment
DETAILED	96"x48"x 3/4" Plywood Unpainted Fire Retardant [EA]	1	1	$108.88	$108.88	$32.92	3/4 in FRT plywood 4x8 $108.88 (Dunn Lumber, WA listing; no local listing) [E3]; 1.0 MH
DETAI	Junction Box [EA]	1	0.5	$10.34	$10.34	$16.46	RACO 232 4 in sq box $9.28 + blank cover $1.06 [E2]; 0.5 MH
DETAI	Junction Box For Phone (As Required) [EA]	1	0.5	$10.34	$10.34	$16.46	RACO 232 4 in sq box $9.28 + blank cover $1.06 [E2]; 0.5 MH
DETAILED	Junction Box Structure Mounted For Tele/Data Connection to Frame rack Computer [EA]	1	0.5	$10.34	$10.34	$16.46	RACO 232 4 in sq box $9.28 + blank cover $1.06 [E2]; 0.5 MH
DETAILED	Junction Box Structure Mounted For Wireless Access Point [EA]	2	0.5	$10.34	$20.68	$32.92	RACO 232 4 in sq box $9.28 + blank cover $1.06 [E2]; 0.5 MH
DETAILED	Junction Box Structure Mounted For Wireless System (By Others) [EA]	4	0	$0.00	$0.00	$0.00	By others per takeoff description
DETAILED	Junction Box Weather Proof For Wireless Access Point [EA]	3	0.6	NEED QUOTE	$0.00	$59.26	0.6 MH
DETAILED	Patch Panel W/ Network Cables Terminated And Labeled [EA]	1	14	NEED QUOTE	$0.00	$460.88	Set, level, terminate 14.0 MH (judgment)
DETAILED	Phone System (Provided And Installed By Caliber Collision) [EA]	1	0	$0.00	$0.00	$0.00	By others per takeoff description
DETAI	Security Panel (By Others) [EA]	1	0	$0.00	$0.00	$0.00	By others per takeoff description
DETAILED	Sawcut & Repair Concrete For Conduit Installation [LF]	8.8	0.5	NEED QUOTE	$0.00	$0.00	0.5 MH/LF

DETAILED	Wall Mounted Grounding Bar [EA]	1	0.5	NEED QUOTE	$0.00	$16.46	0.5 MH
DETAILED	#3 CU Grounding Wire in 1-1/4" PVC Conduit (For Telecom) [LF]	33	0.059	$3.48	$114.84	$64.10	THHN Cu #3 $2.56/ft + 1-1/4 in PVC $0.92/ft [E1/E2]; 0.059 MH/LF
DETAILED	2#16 FPLP Cable [LF]	461.93	0.008	NEED QUOTE	$0.00	$121.65	0.008 MH/LF
DETAILED	2#14 FPLP Cable [LF]	598.71	0.008	NEED QUOTE	$0.00	$157.68	0.008 MH/LF
DETAILED	3/4" EMT Conduit [LF]	1060.64	0.045	$1.11	$1,177.31	$1,571.24	EMT 3/4 in $10.31/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.11/LF; 0.045 MH/LF
DETAILED	3/4" EMT Conduit With Pull String [LF]	26.4	0.045	$1.11	$29.30	$39.11	EMT 3/4 in $10.31/10 ft + coupling/10 ft + connector/50 ft [E1/E2] = $1.11/LF; 0.045 MH/LF
DETAILED	Non Proprietary Fire Alarm Control Panel (Fire-Lite, ES-200X) [EA]	1	16	$1,626.99	$1,626.99	$526.72	Fire-Lite ES-200X $1626.99 [E1/E2]; 16.0 MH
DETAILED	Junction Box Structure Mounted For Speaker System (By Others) [EA]	4	0	$0.00	$0.00	$0.00	By others per takeoff description
DETAILED	Addressable Monitor Module With 4"x4" Junction Box With Single Gang P-Ring Cover [EA]	2	1	$75.99	$151.98	$65.84	Fire-Lite MMF-300 $75.99 [E1/E2]; 1.0 MH
DETAILED	Addressable Photo Duct Smoke Detector/Base/Housing/Air Sampling Tube [EA]	6	2	$154.86	$929.16	$395.04	Fire-Lite D355PL $79.87 + SD365 $74.99 $154.86 [E1/E2]; 2.0 MH
DETAILED	Addressable Photo Smoke Detector/Base (Mounts To Octagon Box Or 4" Sq) [EA]	4	1	$74.99	$299.96	$131.68	Fire-Lite SD365 $74.99 [E1/E2]; 1.0 MH
DETAILED	110 Cd Horn Strobe 4" Square Box, GCC-24CR [EA]	7	1	$83.99	$587.93	$230.44	System Sensor P2RLED (comparable; takeoff model differs) $83.99 [E1/E2]; 1.0 MH
DETAILED	110 Cd Horn Strobe 4" Square Box, GEC3-24WR [EA]	1	1	$83.99	$83.99	$32.92	System Sensor P2RLED (comparable; takeoff model differs) $83.99 [E1/E2]; 1.0 MH
DETAILED	Ceiling Strobe 4" Square Box, GCS24CR [EA]	4	1	$63.99	$255.96	$131.68	System Sensor SCRLED (comparable) $63.99 [E1/E2]; 1.0 MH
DETAILED	Multi-Candela Horn Strobe 4" Square Box, GCC-24CR [EA]	4	1	$83.99	$335.96	$131.68	System Sensor P2RLED (comparable; takeoff model differs) $83.99 [E1/E2]; 1.0 MH
DETAILED	Weatherproof Strobe/Backbox, WGES24-75WR [EA]	1	0.75	NEED QUOTE	$0.00	$24.69	0.75 MH install
DETAILED	Addressable Control Relay (Mounts To 4" Square Box) [EA]	3	1	$79.99	$239.97	$98.76	Fire-Lite CRF-300 $79.99 [E1/E2]; 1.0 MH
DETAILED TAKE	Addressable Manual Pull Station/Stopper Cover (Mounts To 4" Square Box With Single Gang P-Ring Cover) [EA]	5	1	$133.99	$669.95	$164.60	Fire-Lite BG-12LX $133.99 [E1/E2]; 1.0 MH
DETAIL	Edco Surge Protection Device [EA]	2	2	NEED QUOTE	$0.00	$131.68	2.0 MH install
DETAIL	End Of Line Resistor [EA]	2	0.75	NEED QUOTE	$0.00	$49.38	0.75 MH install
DETAILED	Fire Alarm Radio Dialer With Monitor Module & Battery Backup [EA]	1	1	$75.99	$75.99	$32.92	Fire-Lite MMF-300 $75.99 [E1/E2]; 1.0 MH
DETAIL	Fire Alarm Remote Annunciator [EA]	1	0.75	NEED QUOTE	$0.00	$24.69	0.75 MH install
DETAIL	Fire Suppression Panel [EA]	1	16	NEED QUOTE	$0.00	$526.72	16.0 MH install
DETAIL	Junction Box [EA]	1	0.5	$10.34	$10.34	$16.46	RACO 232 4 in sq box $9.28 + blank cover $1.06 [E2]; 0.5 MH
DETAIL	Paint Booth Device [EA]	2	0.75	NEED QUOTE	$0.00	$49.38	0.75 MH install
DETAILED	Remote Test Switch (Mounts On Single Gang Box) [EA]	6	0.75	NEED QUOTE	$0.00	$148.14	0.75 MH install
DETAILED TAKE	Temper Switch/Monitor Module, Mounts To 4" Square Box With Single Gang P-Ring Cover (Supplied By Others) [EA]	1	0	$0.00	$0.00	$0.00	By others per takeoff description
DETAILED TAKE	Water Flow Switch/Monitor Module, Mounts To 4" Square Box With Single Gang P-Ring Cover (Supplied By Others) [EA]	1	0	$0.00	$0.00	$0.00	By others per takeoff description
DETAIL	#8 AWG CU THWN [LF]	5695.8	0.009	$0.81	$4,613.60	$1,459.43	THHN Cu #8 $0.81/ft [E1/E2]; 0.009 MH/LF
DETAIL	1" PVC SCH 40 Conduit With Pull String [LF]	22.7	0.04	$0.66	$14.98	$25.86	PVC Sch 40 1 in $0.66/ft [E1/E2]; 0.04 MH/LF
DETAIL	1" PVC SCH 40 Conduit [LF]	1005.01	0.04	$0.66	$663.31	$1,144.51	PVC Sch 40 1 in $0.66/ft [E1/E2]; 0.04 MH/LF
DETAILED	3" PVC SCH 80 Conduit With Pull String (For Telecom) [LF]	301.4	0.096	NEED QUOTE	$0.00	$823.76	0.096 MH/LF
DETAIL	1" Flexible Conduit [LF]	304.11	0.07	$2.98	$906.24	$606.05	Steel flex 1 in $2.98/ft [E2]; 0.07 MH/LF
DETAILED	Square Straight Lighting Pole (12') With Pole Cap [EA]	13	8	NEED QUOTE	$0.00	$2,960.88	8.0 MH set pole
DETAIL	Anchor Bolts [EA]	52	0.5	NEED QUOTE	$0.00	$740.22	Labor by judgment
DETAIL	20A Fuses [EA]	26	0.5	NEED QUOTE	$0.00	$370.11	Labor by judgment
DETAILED TAKE	2'-0" Dia X 11'-0" H Pole Footing Reinforced With 5#5 Vertical Bars, #3 Ties With 2-1/2" Concrete Cover [EA]	13	1	NEED QUOTE	$0.00	$370.11	1.0 MH install
DETAIL	3/4"x8' Grounding Rod [EA]	13	1.75	NEED QUOTE	$0.00	$647.69	1.75 MH
DETAILED	#6 Grounding Wire [LF]	143	0.011	$1.25	$178.75	$44.78	THHN Cu #6 $1.25/ft [E1/E2]; 0.011 MH/LF (insulated/bare not stated; THHN price used)

DETAILED	4"x12" Long PVC Schedule 80 Pipe With Female Adaptor [EA]	13	0.5	NEED QUOTE	$0.00	$185.06	Labor by judgment
DETAIL	Access Hole With Cover And Ground Lug [EA]	13	0.6	NEED QUOTE	$0.00	$222.07	0.6 MH
DETAIL	Vibration Damper [EA]	13	0.5	NEED QUOTE	$0.00	$185.06	Labor by judgment
DETAILED TAKE	P1: Galleon Area and Roadway High Density LED Luminaire (2) 70 CRI, 4000K, 450mA Light squares with 26 LEDs Ea [EA]	1	2	NEED QUOTE	$0.00	$56.94	2.0 MH install
DETAILED TAKE	P2: Galleon II Area and Roadway Luminaire 800mA 2xLight Square Package 70CRI 4000K Fixture w/ Type IV Angled B [EA]	5	2	NEED QUOTE	$0.00	$284.70	2.0 MH install
DETAILED TAKE	P3: Galleon II Area and Roadway Luminaire 800mA 1xLight Square Package 70CRI 4000K Fixture w/ Left Corner Back [EA]	2	2	NEED QUOTE	$0.00	$113.88	2.0 MH install
DETAILED TAKE	P4: Galleon II Area and Roadway Luminaire 800mA 1xLight Square Package 70CRI 4000K Fixture w/ Right Corner Bac [EA]	2	2	NEED QUOTE	$0.00	$113.88	2.0 MH install
DETAILED TAKE	P5: Galleon Area and Roadway High Density LED Luminaire (2) 70 CRI, 4000K, 450mA Light squares with 26 LEDs Ea [EA]	3	2	NEED QUOTE	$0.00	$170.82	2.0 MH install
DETAILED TAKE	FE: Impact Elite LED Cylinder Luminaire (1) 70 CRI, 4000K, 350mA Light square with 16 LEDs and Type IV Forward [EA]	7	1.5	NEED QUOTE	$0.00	$298.94	1.5 MH install
DETAILED TAKE	G: Impact Elite LED Quarter Sphere Luminaire (1) 70 CRI, 4000K, 615mA Light square with 16 LEDs and Type IV Fo [EA]	6	1.5	NEED QUOTE	$0.00	$256.23	1.5 MH install
DETAIL	Single Pole Switch [EA]	1	0.5	$48.32	$48.32	$14.23	Hubbell HBL1221W $36.72 + box/ring/plate [E1]; 0.5 MH
DETAILED	Gate Operator #OPENER ELITE MODEL SL3000U [EA]	1	2	NEED QUOTE	$0.00	$56.94	2.0 MH install
DETAIL	Junction Box WP [EA]	6	0.6	NEED QUOTE	$0.00	$102.49	0.6 MH
DETAILED	277/480V, 3P, 4W Utility Pole Mounted Transformer [EA]	1	14	NEED QUOTE	$0.00	$398.58	Set, level, terminate 14.0 MH (judgment)
DETAILED	Excavation & Backfilling (3' Deep x 1' Wide) [CY]	95	0.25	NEED QUOTE	$0.00	$676.16	0.25 MH/CY machine trench and backfill