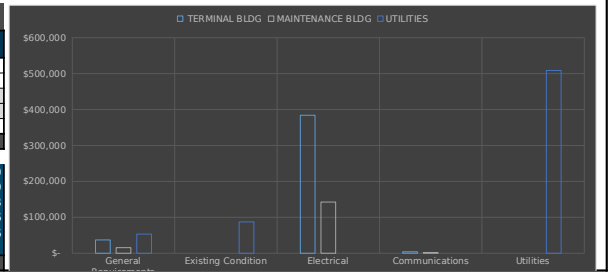
GENERAL SUMMARY

Prepared for: R+L Carriers Umatilla Facility, 711 Umatilla River Rd., Umatilla OR 97882
Project ID: 46293
Scope: HVAC, Electrical
No. Of Floors: 1
Date: 28-Sep-26

ELECTRICAL ESTIMATION
+1 708-381-0900

		TERMINAL BLDG GSF	33,186	MAINTENANCE BLDG GSF	11,728	UTILITIES	123,285
DIVISION NO	DESCRIPTION	TOTAL DIV. COST	TOTAL DIV. COST (PER SF)	TOTAL DIV. COST	TOTAL DIV. COST (PER SF)	TOTAL DIV. COST	TOTAL DIV. COST (PER SF)
1000	General Requirements	$ 37,000	$ 1	$ 15,500	$ 1	$ 53,500	$ 0
2000	Existing Condition					$ 87,222	$ 1
26000	Electrical	$ 384,130	$ 12	$ 142,516	$ 12		
27000	Communications	$ 4,121	$ 0	$ 2,041	$ 0		
33000	Utilities					$ 508,807	$ 4
TOTAL TRADE COST		$ 425,252	$ 13	$ 160,057	$ 14	$ 649,530	$ 5
OVERHEAD	15%	$ 63,788	$ 1.92	$ 24,009	$ 2.05	$ 97,429	$ 0.79
PROFIT	15%	$ 63,788	$ 1.92	$ 24,009	$ 2.05	$ 97,429	$ 0.79
SUB CONTRACTOR FEE	10%	$ 18,654	$ 1.28	$ 6,624	$ 1.36	$ 25,634	$ 0.53
INSURANCE	3%	$ 12,758	$ 0.38	$ 4,802	$ 0.41	$ 19,486	$ 0.16
CONTINGENCY	5%	$ 21,263	$ 1	$ 8,003	$ 0.68	$ 32,476	$ 0.26
TAX	0%	$ -	$ -	$ -	$ -	$ -	$ -
SUGGESTED BID		$ 605,502	$ 19	$ 227,503	$ 20	$ 921,986	$ 8



ELECTRICAL ESTIMATION

DETAILED BREAKDOWN OF ITEMS

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			GENERAL REQUIREMENTS										
1			Permits	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
2			Supervision and Coordination	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 19,500.00	$ 19,500.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
4			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,500.00	$ 1,500.00
5			Mobilization Costs	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 8,500.00	$ 8,500.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 2,500.00	$ 2,500.00
7			Scaffolding	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
8			Testing & Balancing	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 5,000.00	$ 5,000
												SUBTOTAL	$ 37,000
			ELECTRICAL										
			DISTRIBUTION										
			CONDUIT										
9			1 1/2" EMT Conduit	LF	90	10%	99	0.089	$ 70.00	$ 6.23	$ 5.45	$ 11.68	$ 1,156
10			2" EMT Conduit	LF	133	10%	146	0.100	$ 70.00	$ 7.00	$ 8.67	$ 15.67	$ 2,293
11			3 1/2" EMT Conduit	LF	18	10%	20	0.18	$ 70.00	$ 12.46	$ 18.04	$ 30.50	$ 604
12			1 1/2" FLEX S Conduit	LF	10	10%	11	0.07	$ 70.00	$ 5.04	$ 2.83	$ 7.87	$ 86.57
13			2" FLEX S Conduit	LF	5	10%	6	0.10	$ 70.00	$ 6.72	$ 3.80	$ 10.52	$ 57.83
14			3 1/2" FLEX S Conduit	LF	5	10%	6	0.13	$ 70.00	$ 9.10	$ 14.13	$ 23.23	$ 127.77
			CONDUCTOR										
15			#8 CU THWN	LF	76	10%	84	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 99.48
16			#6 CU THWN	LF	122	10%	134	0.010	$ 70.00	$ 0.70	$ 0.86	$ 1.56	$ 209.35
17			#3 CU THWN	LF	349	10%	384	0.012	$ 70.00	$ 0.84	$ 1.66	$ 2.50	$ 959.75
18			#1/0 CU THWN	LF	72	10%	79	0.015	$ 70.00	$ 1.05	$ 2.77	$ 3.82	$ 302.54
19			#3/0 CU THWN	LF	552	10%	607	0.017	$ 70.00	$ 1.19	$ 4.31	$ 5.50	$ 3,339.60
20			#600 MCM CU THWN	LF	92	10%	101	0.040	$ 70.00	$ 2.80	$ 15.65	$ 18.45	$ 1,867.14
			LUGS										
21			Compression Lug CU With 1-Hole , #6 CU Wire	EA	6	0%	6	0.12	$ 70.00	$ 8.40	$ 3.55	$ 11.95	$ 71.70
22			Heat Shrink Tubing for #6 CU Wire	EA	6	0%	6	0.06	$ 70.00	$ 4.20	$ 0.60	$ 4.80	$ 28.80
23			Compression Lug CU With 1-Hole , #3 CU Wire	EA	28	0%	28	0.17	$ 70.00	$ 11.55	$ 5.55	$ 17.10	$ 478.80
24			Heat Shrink Tubing for #3 CU Wire	EA	28	0%	28	0.08	$ 70.00	$ 5.60	$ 0.80	$ 6.40	$ 179.20
25			Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	6	0%	6	0.24	$ 70.00	$ 16.80	$ 9.56	$ 26.36	$ 158.16
26			Heat Shrink Tubing for #1/0 CU Wire	EA	6	0%	6	0.12	$ 70.00	$ 8.40	$ 1.20	$ 9.60	$ 57.60
27			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	32	0%	32	0.30	$ 70.00	$ 21.00	$ 14.35	$ 35.35	$ 1,131.20
28			Heat Shrink Tubing for #3/0 CU Wire	EA	32	0%	32	0.16	$ 70.00	$ 11.20	$ 1.75	$ 12.95	$ 414.40
29			Compression Lug CU With 1-Hole , #600 MCM CU Wire	EA	8	0%	8	0.68	$ 70.00	$ 47.25	$ 53.90	$ 101.15	$ 809.20
30			Heat Shrink Tubing for #600 MCM CU Wire	EA	8	0%	8	0.36	$ 70.00	$ 25.20	$ 4.56	$ 29.76	$ 238.08
			CIRCUIT BREAKER										
31			1P/20A Circuit Breaker	EA	133	0%	133	0.44	$ 70.00	$ 30.49	$ 43.09	$ 73.58	$ 9,785.48
32			1P/20A GFCI Circuit Breaker	EA	50	0%	50	0.44	$ 70.00	$ 30.49	$ 47.09	$ 77.58	$ 3,878.75
33			2P/20A Circuit Breaker	EA	3	0%	3	0.44	$ 70.00	$ 30.49	$ 47.55	$ 78.04	$ 234.11
34			2P/25A Circuit Breaker	EA	2	0%	2	0.46	$ 70.00	$ 32.20	$ 51.05	$ 83.25	$ 166.50
35			2P/30A Circuit Breaker	EA	1	0%	1	0.50	$ 70.00	$ 35.00	$ 67.91	$ 102.91	$ 102.91
36			2P/40A Circuit Breaker	EA	3	0%	3	0.54	$ 70.00	$ 37.45	$ 72.00	$ 109.45	$ 328.35
37			3P/15A Circuit Breaker	EA	2	0%	2	0.51	$ 70.00	$ 35.70	$ 52.00	$ 87.70	$ 175.40
38			3P/20A Circuit Breaker	EA	1	0%	1	0.51	$ 70.00	$ 35.70	$ 58.00	$ 93.70	$ 93.70
39			3P/30A Circuit Breaker	EA	1	0%	1	0.55	$ 70.00	$ 38.50	$ 85.00	$ 123.50	$ 123.50
40			3P/35A Circuit Breaker	EA	1	0%	1	0.59	$ 70.00	$ 41.30	$ 91.80	$ 133.10	$ 133.10
41			3P/100A Circuit Breaker	EA	4	0%	4	0.98	$ 70.00	$ 68.60	$ 320.00	$ 388.60	$ 1,554.40
42			3P/100A Fused Circuit Breaker	EA	1	0%	1	0.98	$ 70.00	$ 68.60	$ 325.10	$ 393.70	$ 393.70
43			3P/100AT/100AF Fused LPJ Circuit Breaker	EA	1	0%	1	0.98	$ 70.00	$ 68.60	$ 333.25	$ 401.85	$ 401.85
44			3P/200A Main Circuit Breaker	EA	2	0%	2	1.72	$ 70.00	$ 120.40	$ 650.00	$ 770.40	$ 1,540.80
45			3P/200A Fused Circuit Breaker	EA	1	0%	1	1.72	$ 70.00	$ 120.40	$ 667.52	$ 787.92	$ 787.92
46			3P/200AT/200AF Fused LPJ Circuit Breaker	EA	1	0%	1	1.72	$ 70.00	$ 120.40	$ 667.52	$ 787.92	$ 787.92
47			3P/400AT/400AF Fused LPJ Circuit Breaker	EA	2	0%	2	2.33	$ 70.00	$ 163.10	$ 1,630.00	$ 1,793.10	$ 3,586.20
			PANEL										
48			Panel H1, 400A, 277/480V, 3Ph, 4W, Mains: MLO, KAIC: 30, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1	11.37	$ 70.00	$ 795.80	$ 4,699.00	$ 5,494.80	$ 5,494.80
49			Panel H2, 200A, 277/480V, 3Ph, 4W, Mains: MLO, KAIC: 14, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1	4.96	$ 70.00	$ 347.18	$ 2,050.00	$ 2,397.18	$ 2,397.18
50			Panel L1(2-Sections), 200A MCB, 120/208V, 3Ph, 4W, Mains: MCB, KAIC: 10, Poles: 84, Surface Mounted, NEMA 1	EA	1	0%	1	8.68	$ 70.00	$ 607.56	$ 3,587.50	$ 4,195.06	$ 4,195.06
51			Panel L2, 200A MCB, 120/208V, 3Ph, 4W, Mains: MCB, KAIC: 10, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1	5.64	$ 70.00	$ 394.60	$ 2,330.00	$ 2,724.60	$ 2,724.60
52			Panel L2A, 100A, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 10, Poles: 60, Surface Mounted, NEMA 1	EA	1	0%	1	5.44	$ 70.00	$ 381.05	$ 2,250.00	$ 2,631.05	$ 2,631.05
53			Panel L2B, 100A, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 10, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1	3.63	$ 70.00	$ 254.03	$ 1,500.00	$ 1,754.03	$ 1,754.03
54			Panel MDP, 800A, 277/480V, 3Ph, 4W, KAIC: 65, Braced, Surface Mounted, Poles:24, NEMA 3R	EA	1	0%	1	20.32	$ 70.00	$ 1,422.58	$ 8,400.00	$ 9,822.58	$ 9,822.58
			DEVICES										
55			112.5 KVA Transformer, 480 - 120/208V, NEMA 1	EA	1	0%	1	21.35	$ 70.00	$ 1,494.50	$ 12,100.00	$ 13,594.50	$ 13,594.50
56			75 KVA Transformer, 480 - 120/208V, NEMA 1	EA	1	0%	1	20.65	$ 70.00	$ 1,445.50	$ 9,120.00	$ 10,565.50	$ 10,565.50
57			800A CT Cabinet, NEMA 3R	EA	1	0%	1	4.56	$ 70.00	$ 319.20	$ 2,460.84	$ 2,780.04	$ 2,780.04
58			800A Trystar Generator Docking Station, NEMA 3R	EA	1	0%	1	22.50	$ 70.00	$ 1,575.00	$ 12,000.00	$ 13,575.00	$ 13,575.00
59			800A Utility Meter, NEMA 3R	EA	1	0%	1	2.55	$ 70.00	$ 178.50	$ 1,200.00	$ 1,378.50	$ 1,378.50
60			ATS, 3P/800A, 277/480V, 3Ph, Service Rated Automatic Transfer Switch, NEMA	EA	1	0%	1	12.50	$ 70.00	$ 875.00	$ 9,850.50	$ 10,725.50	$ 10,725.50
			DISCONNECT SWITCH										
			Note: All Disconnect Switches will be Heavy Duty with Dual Element Time Delay Fuses.										
61			2P/30A Non Fused Disconnect Switch, NEMA 1	EA	3	0%	3	0.85	$ 70.00	$ 59.52	$ 106.29	$ 165.81	$ 497.44
62			2P/40A Non Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	1.02	$ 70.00	$ 71.08	$ 126.92	$ 198.00	$ 198.00
63			2P/50A Non Fused Disconnect Switch, NEMA 3R	EA	3	0%	3	1.16	$ 70.00	$ 81.32	$ 145.21	$ 226.53	$ 679.58
64			3P/30A Non Fused Disconnect Switch, NEMA 1 **(FOR HVLS FANS)**	EA	2	0%	2	1.05	$ 70.00	$ 73.50	$ 125.50	$ 199.00	$ 398.00
65			3P/30A Non Fused Disconnect Switch, NEMA 1	EA	1	0%	1	1.05	$ 70.00	$ 73.50	$ 125.50	$ 199.00	$ 199.00
66			3P/30A Non Fused Disconnect Switch, NEMA 1	EA	1	0%	1	1.05	$ 70.00	$ 73.50	$ 125.50	$ 199.00	$ 199.00
67			3P/60AT/35AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	2.01	$ 70.00	$ 140.94	$ 251.68	$ 392.62	$ 392.62
			GROUNDING										
68			3/4" x 10' CU Ground Rod	EA	4	0%	4	0.36	$ 70.00	$ 25.20	$ 58.59	$ 83.79	$ 335.16
69			Main Grounding Bus Bar	EA	1	0%	1	0.78	$ 70.00	$ 54.60	$ 194.77	$ 249.37	$ 249.37
70	E2.1, E2.2, E2.3, E2.4, E5.1, E6.1 & E6.3	As Per Electrical Plans	#3/0 CU Bonding Jumper	EA	1	0%	1	0.32	$ 70.00	$ 22.40	$ 58.31	$ 80.71	$ 80.71
71			#4 CU Grounding Conductor	LF	85	10%	94	0.011	$ 70.00	$ 0.77	$ 1.32	$ 2.09	$ 195.42
72			#3/0 CU Grounding Conductor	LF	40	10%	44	0.017	$ 70.00	$ 1.19	$ 4.31	$ 5.50	$ 242.00
			POWER										
			CONDUIT										
73			3/4" EMT Conduit	LF	18160	10%	19976	0.04	$ 70.00	$ 2.94	$ 1.76	$ 4.70	$ 93,873
74			1" EMT Conduit	LF	175	10%	193	0.07	$ 70.00	$ 4.90	$ 2.67	$ 7.57	$ 1,458
75			2" EMT Conduit	LF	245	10%	270	0.100	$ 70.00	$ 7.00	$ 8.67	$ 15.67	$ 4,223
76			3" EMT Conduit W/ Pullstring	LF	210	10%	231	0.16	$ 70.00	$ 11.20	$ 12.92	$ 24.12	$ 5,572
77			3/4" FLEX S Conduit	LF	36	10%	40	0.04	$ 70.00	$ 2.96	$ 1.62	$ 4.58	$ 181.41
78			2" FLEX S Conduit	LF	5	10%	6	0.10	$ 70.00	$ 6.72	$ 3.80	$ 10.52	$ 57.83
79			3/4" LFMC Conduit	LF	5	10%	6	0.05	$ 70.00	$ 3.47	$ 2.45	$ 5.92	$ 32.53
80			1" LFMC Conduit	LF	20	10%	22	0.05	$ 70.00	$ 3.75	$ 2.99	$ 6.74	$ 148.32
81			1" PVC Conduit	LF	2236	10%	2460	0.06	$ 70.00	$ 4.48	$ 1.81	$ 6.29	$ 15,475.80
82			2" PVC Conduit	LF	81	10%	89	0.09	$ 70.00	$ 6.23	$ 4.40	$ 10.63	$ 947.13
83			3/4" RGS Conduit	LF	5	10%	6	0.10	$ 70.00	$ 7.00	$ 4.50	$ 11.50	$ 63.25
84			1" RGS Conduit	LF	20	10%	22	0.12	$ 70.00	$ 8.61	$ 7.00	$ 15.61	$ 343.46
			CONDUCTOR										
85			3#12 MC Cable	LF	712	10%	783	0.03	$ 70.00	$ 1.82	$ 1.69	$ 3.51	$ 2,749.03
86			3#10 MC Cable	LF	216	10%	238	0.04	$ 70.00	$ 2.52	$ 3.32	$ 5.84	$ 1,387.58
87			2#8, #10 MC Cable	LF	240	10%	264	0.03	$ 70.00	$ 2.10	$ 2.18	$ 4.28	$ 1,129.92

ESTIMATION

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88			#12 CU THWN	LF	5166	10%	5683	0.01	$ 70.00	$ 0.49	$ 0.25	$ 0.74	$ 4,205.12
89			#10 CU THWN	LF	23965	10%	26362	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 24,779.81
90			#8 CU THWN	LF	34947	10%	38442	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 45,745.62
			DEVICE										
91			1P/20A Motor Rated Switch	EA	16	0%	16	0.30	$ 70.00	$ 21.00	$ 24.95	$ 45.95	$ 735.20
92			Duplex Receptacle	EA	95	0%	95	0.29	$ 70.00	$ 20.30	$ 19.50	$ 39.80	$ 3,781.00
93			Duplex Receptacle GFCI	EA	31	0%	31	0.34	$ 70.00	$ 23.45	$ 28.90	$ 52.35	$ 1,622.85
94			Duplex Receptacle GFCI\WP	EA	1	0%	1	0.36	$ 70.00	$ 25.20	$ 31.50	$ 56.70	$ 56.70
95			Equipment Connection	EA	9	0%	9	0.82	$ 70.00	$ 57.05	$ -	$ 57.05	$ 513.45
			LIGHTING										
			CONDUIT										
96			3/4" EMT Conduit	LF	1132	10%	1245	0.04	$ 70.00	$ 2.94	$ 1.76	$ 4.70	$ 5,852
97			3/4" FLEX S Conduit	LF	10	10%	11	0.04	$ 70.00	$ 2.96	$ 1.62	$ 4.58	$ 50.39
			CONDUCTOR										
98			2#8, #10 MC Cable	LF	3494	10%	3843	0.03	$ 70.00	$ 2.10	$ 2.18	$ 4.28	$ 16,447.92
99			#10 CU THWN	LF	2546	10%	2801	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 2,633.02
100			#8 CU THWN	LF	1348	10%	1483	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 1,764.22
			LIGHTING FIXTURES										
			Note: As Per Responsibility Matrix Lighting Fixtures are Furnished By Owner & Install By Contractor. (Contractor to Verify if Required)										
101			A – 2x4 LED Troffer, Manufacturer: Orion, Model: LTHE1 H1 UNV FDXX 840 24 M, 34W LED, 277V, Recessed Mounted	EA	49	0%	49	0.95	$ 70.00	$ 66.50	$ -	$ 66.50	$ 3,258.50
102			A EM – 2x4 LED Troffer, Manufacturer: Orion, Model: LTHE1 H1 UNV FDXX 840 24 M, 34W LED, 277V, Recessed Mounted, Provide with Battery Backup	EA	1	0%	1	1.25	$ 70.00	$ 87.50	$ -	$ 87.50	$ 87.50
103			AA – LED Wall Pack, Manufacturer: Linmore, Model: WAL-060W-50K UNV, 60W LED, 277V, Wall Mounted	EA	6	0%	6	1.28	$ 70.00	$ 89.60	$ -	$ 89.60	$ 537.60
104			AA2 – LED Wall Pack, Manufacturer: ACE LED, Model: AW20S-A2-ADJ-SM-ADJ-80-PL-LV-FXT, 20W LED, 277V, Wall Mounted	EA	47	0%	47	1.12	$ 70.00	$ 78.40	$ -	$ 78.40	$ 3,684.80
105			BB – Flood Light, Manufacturer: Lumark, Model: MP NK 250 277V, 250W PSMH, 277V, Wall Mounted	EA	8	0%	8	1.33	$ 70.00	$ 93.10	$ -	$ 93.10	$ 744.80
106			C – 6" LED Downlight, Manufacturer: ATG LED Lighting, Model: DJ6T-22-01, 22W LED, 277V, Recessed Mounted, Wet Location Where Required	EA	23	0%	23	0.85	$ 70.00	$ 59.50	$ -	$ 59.50	$ 1,368.50
107			E – Dock Door LED Fixture, Manufacturer: Trilite, Model: HDLED-2, 18W LED, 120V, Wall Mounted	EA	48	0%	48	1.02	$ 70.00	$ 71.40	$ -	$ 71.40	$ 3,427.20
108			F – LED High Bay, Manufacturer: Flex Lighting Solutions, Model: ES40V-A1-13K-2MS, 92W LED, 277V, Suspended Mounted	EA	30	0%	30	1.18	$ 70.00	$ 82.60	$ -	$ 82.60	$ 2,478.00
109			F-EM – LED High Bay with Emergency Battery Backup, Manufacturer: Flex Lighting Solutions, Model: ES40V-A1-13K-2MS-EMB2, 92W LED, 277V, Suspended Mounted	EA	18	0%	18	1.45	$ 70.00	$ 101.50	$ -	$ 101.50	$ 1,827.00
110			J – LED Strip Light, Manufacturer: CM McCabe Alphalite, Model: ILL-H4-32S, 30W LED, 277V, Surface Mounted	EA	1	0%	1	0.68	$ 70.00	$ 47.60	$ -	$ 47.60	$ 47.60
111			J-EM – LED Strip Light, Manufacturer: CM McCabe Alphalite, Model: ILL-H4-32S, 30W LED, 277V, Surface Mounted, Provide with Battery Backup	EA	5	0%	5	1.45	$ 70.00	$ 101.50	$ -	$ 101.50	$ 507.50
112			X2 – Wall Mounted Exit Sign, Manufacturer: Orion, Model: ECSUB RD W SDF UNV BB UM, LED, 277V, Universal Mounted, With 90 Min. Minimum Battery Backup	EA	4	0%	4	1.30	$ 70.00	$ 91.00	$ -	$ 91.00	$ 364.00
113			X2 – Ceiling Mounted Exit Sign, Manufacturer: Orion, Model: ECSUB RD W SDF UNV BB UM, LED, 277V, Universal Mounted, With 90 Min. Minimum Battery Backup	EA	2	0%	2	1.35	$ 70.00	$ 94.50	$ -	$ 94.50	$ 189.00
114			XR – Emergency Light, Manufacturer: Cooper Lighting, Model: AEL2 46, 277V, With 90 Min. Minimum Battery Backup	EA	4	0%	4	1.29	$ 70.00	$ 90.30	$ -	$ 90.30	$ 361.20
			LIGHTING CONTROL										
115			Ceiling Mounted Occupancy Sensor	EA	3	0%	3	0.35	$ 70.00	$ 24.50	$ 78.15	$ 102.65	$ 307.95
116			Mechanically Held Lighting Contactor, 4 Pole, 20A Contacts, ASCO ACCESSORY #47	EA	1	0%	1	1.55	$ 70.00	$ 108.50	$ 547.09	$ 655.59	$ 655.59
117			Override Switch	EA	1	0%	1	0.18	$ 70.00	$ 12.60	$ 46.19	$ 58.79	$ 58.79
118			Photocell	EA	1	0%	1	0.17	$ 70.00	$ 11.55	$ 34.70	$ 46.25	$ 46.25
119			Time Clock	EA	1	0%	1	1.15	$ 70.00	$ 80.50	$ 571.50	$ 652.00	$ 652.00
120			Wall Mounted Occupancy Sensor Switch	EA	20	0%	20	0.26	$ 70.00	$ 18.06	$ 61.55	$ 79.61	$ 1,592.20
			MISCELLANEOUS										
121			Wall Mounted Junction Box	EA	5	0%	5	0.35	$ 70.00	$ 24.50	$ 16.50	$ 41.00	$ 205.00
122			Ceiling Mounted Junction Box	EA	18	0%	18	0.36	$ 70.00	$ 25.20	$ 16.50	$ 41.70	$ 750.60
			SAW CUT										
123			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	131	0%	131	0.12	$ 70.00	$ 8.40	$ -	$ 8.40	$ 1,100.40
												SUBTOTAL	**$ 384,130**
			COMMUNICATION										
			TELECOMMUNICATION										
			CONDUIT										
124		By E.C	3/4" EMT Conduit with Pull String	LF	330	10%	363	0.06	$ 70.00	$ 4.34	$ 1.96	$ 6.30	$ 2,287
125			1" PVC Conduit W/ Pullstring	LF	80	10%	88	0.06	$ 70.00	$ 4.48	$ 1.97	$ 6.45	$ 567.16
	E2.1 & E2.2		**DEVICES**										
126			4" Square Back Box	EA	33	0%	33	0.22	$ 70.00	$ 15.40	$ 23.00	$ 38.40	$ 1,267.20
127		By Others	Wall Mounted Tele Outlet	EA	32	0%	32	0.00	$ 70.00	$ -	$ -	$ -	$ -
128			Tele/Data Outlet	EA	1	0%	1	0.00	$ 70.00	$ -	$ -	$ -	$ -
129			Faceplate	EA	33	0%	33	0.00	$ 70.00	$ -	$ -	$ -	$ -
												SUBTOTAL	**$ 4,121**

	PROJECTED COST	**$425,252**
OVERHEAD	**15%**	**$63,788**
PROFIT	**15%**	**$63,788**
SUB CONTRACTOR FEE	**10%**	**$18,654**
INSURANCE	**3%**	**$12,758**
CONTINGENCY	**5%**	**$21,263**
TAX	**0.0%**	**$0**
SUGGESTED BID		**$605,502**

Notes:

1. Fuel Canopy By Others, Deferred Submittal.
2. Fuel station drawings were provided for reference only; therefore, the estimate has been prepared in accordance with the Electrical Plans.
3. New truck terminal facility consisting of maintenance service lanes, maintenance/detail bays, cross-dock terminal areas, and associated office spaces.

Phone: +1 708-381-0900

DETAILED BREAKDOWN OF ITEMS

Prepared for: R+L Carriers Umatilla Facility, 711 Umatilla River Rd., Umatilla OR 97882
Project ID: 46293
Scope: HVAC, Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			GENERAL REQUIREMENTS										
1			Permits	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
2			Supervision and Coordination	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 8,500.00	$ 8,500.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
4			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 500.00	$ 500.00
5			Mobilization Costs	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 3,500.00	$ 3,500.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,000.00	$ 1,000.00
7			Scaffolding	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
8			Testing & Balancing	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 2,000.00	$ 2,000
												SUBTOTAL	$ 15,500
			ELECTRICAL										
			DISTRIBUTION										
			CONDUIT										
9			1 1/2" EMT Conduit	LF	96	10%	106	0.089	$ 70.00	$ 6.23	$ 5.45	$ 11.68	$ 1,233.41
10			3 1/2" EMT Conduit	LF	20	10%	22	0.18	$ 70.00	$ 12.46	$ 15.74	$ 28.20	$ 620.49
11			1 1/2" FLEX S Conduit	LF	5	10%	6	0.07	$ 70.00	$ 5.04	$ 2.83	$ 7.87	$ 43.29
12			3 1/2" FLEX S Conduit	LF	5	10%	6	0.13	$ 70.00	$ 9.10	$ 14.13	$ 23.23	$ 127.77
			CONDUCTOR										
13			#8 CU THWN	LF	72	10%	79	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 94.25
14			#6 CU THWN	LF	29	10%	32	0.010	$ 70.00	$ 0.70	$ 0.86	$ 1.56	$ 49.76
15			#3 CU THWN	LF	313	10%	344	0.012	$ 70.00	$ 0.84	$ 1.66	$ 2.50	$ 860.75
16			#1/0 CU THWN	LF	87	10%	96	0.015	$ 70.00	$ 1.05	$ 2.77	$ 3.82	$ 365.57
17			#600 MCM CU THWN	LF	100	10%	110	0.040	$ 70.00	$ 2.80	$ 15.65	$ 18.45	$ 2,029.50
			LUGS										
18			Compression Lug CU With 1-Hole , #6 CU Wire	EA	32	0%	32	0.12	$ 70.00	$ 8.40	$ 3.55	$ 11.95	$ 382.40
19			Heat Shrink Tubing for #6 CU Wire	EA	32	0%	32	0.06	$ 70.00	$ 4.20	$ 0.60	$ 4.80	$ 153.60
20			Compression Lug CU With 1-Hole , #3 CU Wire	EA	34	0%	34	0.17	$ 70.00	$ 11.55	$ 5.55	$ 17.10	$ 581.40
21			Heat Shrink Tubing for #3 CU Wire	EA	34	0%	34	0.08	$ 70.00	$ 5.60	$ 0.80	$ 6.40	$ 217.60
22			Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	6	0%	6	0.24	$ 70.00	$ 16.80	$ 9.56	$ 26.36	$ 158.16
23			Heat Shrink Tubing for #1/0 CU Wire	EA	6	0%	6	0.12	$ 70.00	$ 8.40	$ 1.20	$ 9.60	$ 57.60
24			Compression Lug CU With 1-Hole , #600 MCM CU Wire	EA	8	0%	8	0.68	$ 70.00	$ 47.25	$ 53.90	$ 101.15	$ 809.20
25			Heat Shrink Tubing for #600 MCM CU Wire	EA	8	0%	8	0.36	$ 70.00	$ 25.20	$ 4.56	$ 29.76	$ 238.08
			CIRCUIT BREAKER										
26			1P/20A Circuit Breaker	EA	124	0%	124	0.44	$ 70.00	$ 30.49	$ 43.09	$ 73.58	$ 9,123.30
27			2P/20A Circuit Breaker	EA	14	0%	14	0.44	$ 70.00	$ 30.49	$ 47.55	$ 78.04	$ 1,092.49
28			2P/30A Circuit Breaker	EA	2	0%	2	0.50	$ 70.00	$ 35.00	$ 67.91	$ 102.91	$ 205.82
29			2P/40A Circuit Breaker	EA	1	0%	1	0.54	$ 70.00	$ 37.45	$ 72.00	$ 109.45	$ 109.45
30			2P/50A Circuit Breaker	EA	6	0%	6	0.52	$ 70.00	$ 36.40	$ 79.50	$ 115.90	$ 695.40
31			3P/15A Circuit Breaker	EA	2	0%	2	0.51	$ 70.00	$ 35.70	$ 52.00	$ 87.70	$ 175.40
32			3P/20A Circuit Breaker	EA	5	0%	5	0.51	$ 70.00	$ 35.70	$ 58.00	$ 93.70	$ 468.50
33			3P/30A Circuit Breaker	EA	1	0%	1	0.55	$ 70.00	$ 38.50	$ 85.00	$ 123.50	$ 123.50
34			3P/100A Circuit Breaker	EA	4	0%	4	0.98	$ 70.00	$ 68.60	$ 320.00	$ 388.60	$ 1,554.40
35			3P/150A Circuit Breaker	EA	1	0%	1	1.40	$ 70.00	$ 98.00	$ 534.00	$ 632.00	$ 632.00
			PANEL										
36			Panel H3, 400A, 277/480V, 3Ph, 4W, Mains: MLO, KAIC: 14, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1	10.07	$ 70.00	$ 704.85	$ 4,699.00	$ 5,403.85	$ 5,403.85
37			Panel L3 (2-Sections), 400A, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 22, Poles: 84, Surface Mounted, NEMA 1	EA	1	0%	1	16.11	$ 70.00	$ 1,127.76	$ 7,518.40	$ 8,646.16	$ 8,646.16
38			Panel L4, 200A, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 10, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1	5.64	$ 70.00	$ 394.60	$ 2,330.00	$ 2,724.60	$ 2,724.60
39			Panel L5, 125, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 10, Poles: 72, Surface Mounted, NEMA 1	EA	1	0%	1	5.19	$ 70.00	$ 363.33	$ 2,422.17	$ 2,785.50	$ 2,785.50
40			Panel L6, 100A, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 10, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1	3.21	$ 70.00	$ 225.00	$ 1,500.00	$ 1,725.00	$ 1,725.00
			DEVICES										
41			112.5 KVA Transformer, 480 - 120/208V, NEMA 1	EA	1	0%	1	21.35	$ 70.00	$ 1,494.50	$ 12,100.00	$ 13,594.50	$ 13,594.50
42			3P/100A Contactor, 3Ph, 4W, 120V Coil , NEMA 1	EA	1	0%	1	4.56	$ 70.00	$ 319.20	$ 1,772.99	$ 2,092.19	$ 2,092.19
			DISCONNECT SWITCH										
			Note: All Disconnect Switches will be Heavy Duty with Dual Element Time Delay Fuses.										
43			1P/30A Non Fused Disconnect Switch, NEMA 1	EA	10	0%	10	0.71	$ 70.00	$ 49.57	$ 75.88	$ 125.45	$ 1,254.55
44			2P/30A Non Fused Disconnect Switch, NEMA 1 **(FOR HVLS FANS)**	EA	1	0%	1	0.85	$ 70.00	$ 59.52	$ 106.29	$ 165.81	$ 165.81
45			2P/30A Non Fused Disconnect Switch, NEMA 1	EA	1	0%	1	0.85	$ 70.00	$ 59.52	$ 106.29	$ 165.81	$ 165.81
46			2P/40A Non Fused Disconnect Switch, NEMA 1	EA	1	0%	1	1.02	$ 70.00	$ 71.08	$ 120.92	$ 192.00	$ 192.00
47			2P/40A Non Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	1.02	$ 70.00	$ 71.08	$ 126.92	$ 198.00	$ 198.00
48			3P/20A Non Fused Disconnect Switch, NEMA 1	EA	1	0%	1	1.05	$ 70.00	$ 73.50	$ 113.00	$ 186.50	$ 186.50
49			3P/30A Non Fused Disconnect Switch, NEMA 1	EA	4	0%	4	1.05	$ 70.00	$ 73.50	$ 125.50	$ 199.00	$ 796.00
			GROUNDING										
50			3/4" x 10' CU Ground Rod	EA	1	0%	1	0.36	$ 70.00	$ 25.20	$ 58.59	$ 83.79	$ 83.79
51			#4 CU Grounding Conductor	LF	20	10%	22	0.011	$ 70.00	$ 0.77	$ 1.32	$ 2.09	$ 45.98
			POWER										
			CONDUIT										
52			3/4" EMT Conduit	LF	3986	10%	4385	0.04	$ 70.00	$ 2.94	$ 1.76	$ 4.70	$ 20,604.53
53			1" EMT Conduit	LF	538	10%	592	0.07	$ 70.00	$ 4.90	$ 2.67	$ 7.57	$ 4,482.80
54			3" EMT Conduit W/ Pullstring	LF	60	10%	66	0.16	$ 70.00	$ 11.20	$ 12.92	$ 24.12	$ 1,591.92
55	E3.1, E4.1, E5.1, E6.2 & E6.3	As Per Electrical Plans	3/4" FLEX S Conduit	LF	74	10%	81	0.04	$ 70.00	$ 2.96	$ 1.62	$ 4.58	$ 372.89
56			3/4" LFMC Conduit	LF	5	10%	6	0.05	$ 70.00	$ 3.47	$ 2.45	$ 5.92	$ 32.53
57			3/4" RGS Conduit	LF	5	10%	6	0.10	$ 70.00	$ 7.00	$ 4.50	$ 11.50	$ 63.25
			CONDUCTOR										
58			3#12 MC Cable	LF	235	10%	259	0.03	$ 70.00	$ 1.82	$ 1.69	$ 3.51	$ 907.34
59			3#10 MC Cable	LF	156	10%	172	0.04	$ 70.00	$ 2.52	$ 3.32	$ 5.84	$ 1,002.14
60			#12 CU THWN	LF	6190	10%	6809	0.007	$ 70.00	$ 0.49	$ 0.25	$ 0.74	$ 5,038.66
61			#10 CU THWN	LF	6331	10%	6964	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 6,546.25
62			#8 CU THWN	LF	1695	10%	1865	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 2,218.76
63			#6 CU THWN	LF	1614	10%	1775	0.010	$ 70.00	$ 0.70	$ 0.86	$ 1.56	$ 2,769.62
			DEVICE										
64			1P/20A Motor Rated Switch	EA	4	0%	4	0.30	$ 70.00	$ 21.00	$ 24.95	$ 45.95	$ 183.80
65			2P/40A Special Purpose Receptacle	EA	1	0%	1	0.28	$ 70.00	$ 19.60	$ 34.00	$ 53.60	$ 53.60
66			2P/50A Special Purpose Receptacle	EA	5	0%	5	0.34	$ 70.00	$ 23.80	$ 39.00	$ 62.80	$ 314.00
67			Duplex Receptacle	EA	21	0%	21	0.29	$ 70.00	$ 20.30	$ 19.50	$ 39.80	$ 835.80
68			Duplex Receptacle GFCI	EA	29	0%	29	0.34	$ 70.00	$ 23.45	$ 28.90	$ 52.35	$ 1,518.15
69			Duplex Receptacle GFCI\WP	EA	4	0%	4	0.36	$ 70.00	$ 25.20	$ 31.50	$ 56.70	$ 226.80
70			Equipment Connection	EA	17	0%	17	0.82	$ 70.00	$ 57.05	$ -	$ 57.05	$ 969.85
71			Heavy Duty Grips, HUBBELL KELLUM	EA	4	0%	4	0.62	$ 70.00	$ 43.40	$ 75.22	$ 118.62	$ 474.48
			LIGHTING										
			CONDUIT										
72			3/4" EMT Conduit	LF	676	10%	744	0.04	$ 70.00	$ 2.94	$ 1.76	$ 4.70	$ 3,494.09
73			3/4" FLEX S Conduit	LF	15	10%	17	0.04	$ 70.00	$ 2.96	$ 1.62	$ 4.58	$ 75.59
74			1" PVC Conduit	LF	348	10%	383	0.06	$ 70.00	$ 4.48	$ 1.81	$ 6.29	$ 2,409.13
			CONDUCTOR										
75			3#10 MC Cable	LF	300	10%	330	0.04	$ 70.00	$ 2.52	$ 3.32	$ 5.84	$ 1,927.39
76			2#8, #10 MC Cable	LF	1294	10%	1423	0.03	$ 70.00	$ 2.10	$ 2.18	$ 4.28	$ 6,090.17
77			#12 CU THWN	LF	301	10%	331	0.007	$ 70.00	$ 0.49	$ 0.25	$ 0.74	$ 244.74
78			#10 CU THWN	LF	1277	10%	1404	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 1,319.96
79			#8 CU THWN	LF	1540	10%	1694	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 2,015.65
			LIGHTING FIXTURES										
			Note: As Per Responsibility Matrix Lighting Fixtures are Furnished By Owner & Install By Contractor. (Contractor to Verify if Required)										
80			A – 2x4 LED Troffer, Manufacturer: Orion, Model: LTHE1 H1 UNV FDXX 840 24 M, 34W LED, 277V, Recessed Mounted	EA	8	0%	8	1.25	$ 70.00	$ 87.50	$ -	$ 87.50	$ 700.00

DETAILED BREAKDOWN OF ITEMS

Prepared for: R+L Carriers Umatilla Facility, 711 Umatilla River Rd., Umatilla OR 97882
Project ID: 46293
Scope: HVAC, Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
81			AA – LED Wall Pack, Manufacturer: Linmore, Model: WAL-060W-50K UNV, 60W LED, 277V, Wall Mounted	EA	6	0%	6	1.28	$ 70.00	$ 89.60	$ -	$ 89.60	$ 537.60
82			B – Class 1, Division II Rated LED Wall Fixture, Manufacturer: Eaton Crouse-Hinds, Model: LL48-60W-765/C-IN, 56W LED, 277V, Wall Mounted	EA	16	0%	16	1.15	$ 70.00	$ 80.50	$ -	$ 80.50	$ 1,288.00
83			BB – Flood Light, Manufacturer: Lumark, Model: MP NK 250 277V, 250W PSMH, 277V, Wall Mounted	EA	6	0%	6	1.33	$ 70.00	$ 93.10	$ -	$ 93.10	$ 558.60
84			C – 6" LED Downlight, Manufacturer: ATG LED Lighting, Model: DJ6T-22-01, 22W LED, 277V, Recessed Mounted, Wet Location Where Required	EA	9	0%	9	0.85	$ 70.00	$ 59.50	$ -	$ 59.50	$ 535.50
85			H – LED High Bay, Manufacturer: Flex Lighting Solutions, Model: ES40V-A1-27K-4MS, 181W LED, 277V, Suspended Mounted	EA	19	0%	19	0.88	$ 70.00	$ 61.60	$ -	$ 61.60	$ 1,170.40
86			H-EM – LED High Bay with 90 Min. Battery Backup, Manufacturer: Flex Lighting Solutions, Model: ES40V-A1-27K-4MS-EMB2, 181W LED, 277V, Suspended Mounted	EA	5	0%	5	1.02	$ 70.00	$ 71.40	$ -	$ 71.40	$ 357.00
87			H2 – Wet Location LED High Bay, Manufacturer: Flex Lighting Solutions, Model: ES40V-A1-27K-4MS-WET, 181W LED, 277V, Suspended Mounted, Wet Location	EA	10	0%	10	1.05	$ 70.00	$ 73.50	$ -	$ 73.50	$ 735.00
88			H2-EM – Wet Location LED High Bay with 90 Min. Battery Backup, Manufacturer: Flex Lighting Solutions, Model: ES40V-A1-27K-4MS-EMB2-WET, 181W LED, 277V, Suspended Mounted	EA	3	0%	3	1.22	$ 70.00	$ 85.40	$ -	$ 85.40	$ 256.20
89			J – LED Strip Light, Manufacturer: CM McCabe Alphalite, Model: ILL-H4-32S, 30W LED, 277V, Surface Mounted	EA	6	0%	6	0.68	$ 70.00	$ 47.60	$ -	$ 47.60	$ 285.60
90			X2 – Exit Sign, Manufacturer: Orion, Model: ECSUB RD W SDF UNV BB UM, LED, 277V, Universal Mounted, With 90 Min. Minimum Battery Backup	EA	7	0%	7	1.35	$ 70.00	$ 94.50	$ -	$ 94.50	$ 661.50
91			XR – Emergency Light, Manufacturer: Cooper Lighting, Model: AEL2 46, 277V, With 90 Min. Minimum Battery Backup	EA	10	0%	10	1.29	$ 70.00	$ 90.30	$ -	$ 90.30	$ 903.00
			LIGHTING CONTROL										
92			3 Way Switch	EA	4	0%	4	0.18	$ 70.00	$ 12.60	$ 19.50	$ 32.10	$ 128.40
93			Switch Bank "B" W/ (3) Single Pole Switches	EA	1	0%	1	0.85	$ 70.00	$ 59.50	$ 105.60	$ 165.10	$ 165.10
94			Wall Mounted Occupancy Sensor Switch	EA	10	0%	10	0.35	$ 70.00	$ 24.50	$ 78.15	$ 102.65	$ 1,026.50
95			Wall Mounted Single Pole Switch	EA	3	0%	3	0.15	$ 70.00	$ 10.50	$ 15.56	$ 26.06	$ 78.18
			MISCELLANEOUS										
96			Ceiling Mounted Junction Box	EA	7	0%	7	0.36	$ 70.00	$ 25.20	$ 16.50	$ 41.70	$ 291.90
97			Wall Mounted Junction Box	EA	3	0%	3	0.36	$ 70.00	$ 25.20	$ 16.50	$ 41.70	$ 125.10
98			Wall Mounted Junction Box WP	EA	1	0%	1	0.36	$ 70.00	$ 25.20	$ 19.56	$ 44.76	$ 44.76
			SAW CUT										
99			Saw Cut & Repair Concrete Floor For Conduit Installation	LF	312	0%	312	0.12	$ 70.00	$ 8.40	$ -	$ 8.40	$ 2,620.80
												SUBTOTAL	**$ 142,516**
			COMMUNICATION										
			TELECOMMUNICATION										
			CONDUIT										
100		**By E.C**	3/4" EMT Conduit with Pull String	LF	40	10%	44	0.06	$ 70.00	$ 4.34	$ 1.96	$ 6.30	$ 277.20
			DEVICES										
101	**E3.1**		1/2" x 8' Fire Rated Plywood Back Board	LF	35	0%	35	0.20	$ 70.00	$ 14.00	$ 32.15	$ 46.15	$ 1,610.17
102			4" Square Back Box	EA	4	0%	4	0.22	$ 70.00	$ 15.40	$ 23.00	$ 38.40	$ 153.60
103		**By Others**	Faceplate	EA	4	0%	4	0.00	$ -	$ -	$ -	$ -	$ -
104			Wall Mounted Tele/Data Outlet	EA	4	0%	4	0.00	$ -	$ -	$ -	$ -	$ -
												SUBTOTAL	**$ 2,041**

	PROJECTED COST	**$160,057**
OVERHEAD AND PROFIT	**15%**	**$24,009**
	15%	**$24,009**
	10%	**$6,624**
INSURANCE	**3%**	**$4,802**
CONTINGENCY	**5%**	**$8,003**
TAX	**0.0%**	**$0**
SUGGESTED BID		**$227,503**

Notes:

1. Fuel Canopy By Others, Deferred Submittal.
2. Fuel station drawings were provided for reference only; therefore, the estimate has been prepared in accordance with the Electrical Plans.
3. New truck terminal facility consisting of maintenance service lanes, maintenance/detail bays, cross-dock terminal areas, and associated office spaces.

ELECTRICAL ESTIMATION

DETAILED BREAKDOWN OF ITEMS

Prepared for: R+L Carriers Umatilla Facility, 711 Umatilla River Rd., Umatilla OR 97882
Project ID: 46293
Scope: HVAC, Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
GENERAL REQUIREMENTS													
1			Permits	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
2			Supervision and Coordination	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 26,500.00	$ 26,500.00
3			Submittals and Shop drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
4			Final Cleaning	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 2,000.00	$ 2,000.00
5			Mobilization Costs	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 13,000.00	$ 13,000.00
6			Temporary Control & Facilities	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 4,000.00	$ 4,000.00
7			Scaffolding	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
8			Testing & Balancing	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 8,000.00	$ 8,000
												SUBTOTAL	**$ 53,500**
EXISTING CONDITIONS													
			DEMOLITION										
9	C1.20, C7.20	Civil Demo Plan Notes	Remove Existing Electrical Devices W/ Wiring Back To Source	SF	16657	0%	16657	0.05	$ 70.00	$ 3.15	$ -	$ 3.15	$ 52,469.55
10			Remove Existing Underground Telecommunication Line	LF	745	0%	745	0.15	$ 70.00	$ 10.50	$ -	$ 10.50	$ 7,822.50
11			Remove Existing Underground Electric Line	LF	1029	0%	1029	0.18	$ 70.00	$ 12.60	$ -	$ 12.60	$ 12,965.40
12			Remove Existing Power Structure	EA	19	0%	19	10.50	$ 70.00	$ 735.00	$ -	$ 735.00	$ 13,965.00
												SUBTOTAL	**$ 87,222**
UTILITIES													
			DISTRIBUTION										
			CONDUIT										
13			1 1/2" EMT Conduit	LF	5	10%	6	0.089	$ 70.00	$ 6.23	$ 5.45	$ 11.68	$ 64.24
14			3" EMT Conduit	LF	20	10%	22	0.16	$ 70.00	$ 11.20	$ 11.92	$ 23.12	$ 508.64
15			4" EMT Conduit	LF	102	10%	112	0.20	$ 70.00	$ 14.00	$ 16.19	$ 30.19	$ 3,387.62
16			1 1/2" LFMC Conduit	LF	5	10%	6	0.05	$ 70.00	$ 3.75	$ 3.12	$ 6.87	$ 37.80
17			2" LFMC Conduit	LF	5	10%	6	0.07	$ 70.00	$ 5.05	$ 3.96	$ 9.01	$ 49.54
18			4" LFMC Conduit	LF	15	10%	17	0.08	$ 70.00	$ 5.85	$ 6.83	$ 12.68	$ 209.14
19			1 1/2" PVC Conduit	LF	381	10%	419	0.08	$ 70.00	$ 5.60	$ 2.84	$ 8.44	$ 3,538.88
20			3" PVC Conduit	LF	1062	10%	1168	0.15	$ 70.00	$ 10.15	$ 6.60	$ 16.75	$ 19,567.35
21			4" PVC Conduit	LF	281	10%	309	0.18	$ 70.00	$ 12.46	$ 8.80	$ 21.26	$ 6,571.47
22			1 1/2" RGS Conduit	LF	15	10%	17	0.15	$ 70.00	$ 10.15	$ 11.59	$ 21.74	$ 358.74
23			2" RGS Conduit	LF	10	10%	11	0.18	$ 70.00	$ 12.46	$ 14.76	$ 27.22	$ 299.42
24			4" RGS Conduit	LF	40	10%	44	0.40	$ 70.00	$ 28.00	$ 44.55	$ 72.55	$ 3,192.20
			CONDUCTOR										
25			#6 CU THWN	LF	421	10%	463	0.010	$ 70.00	$ 0.70	$ 0.86	$ 1.56	$ 722.44
26			#3 CU THWN	LF	1127	10%	1240	0.012	$ 70.00	$ 0.84	$ 1.66	$ 2.50	$ 3,099.25
27			#2 CU THWN	LF	1173	10%	1290	0.013	$ 70.00	$ 0.91	$ 2.07	$ 2.98	$ 3,845.09
28			#1/0 CU THWN	LF	244	10%	268	0.015	$ 70.00	$ 1.05	$ 2.77	$ 3.82	$ 1,025.29
29			#3/0 CU THWN	LF	60	10%	66	0.017	$ 70.00	$ 1.19	$ 4.31	$ 5.50	$ 363.00
30			#4/0 CU THWN	LF	4328	10%	4761	0.018	$ 70.00	$ 1.26	$ 5.37	$ 6.63	$ 31,564.10
31			#500 MCM CU THWN	LF	292	10%	321	0.035	$ 70.00	$ 2.45	$ 12.57	$ 15.02	$ 4,824.42
32			#600 MCM CU THWN	LF	1460	10%	1606	0.040	$ 70.00	$ 2.80	$ 15.65	$ 18.45	$ 29,630.70
			LUGS										
33			Compression Lug CU With 1-Hole , #6 CU Wire	EA	10	0%	10	0.12	$ 70.00	$ 8.40	$ 3.55	$ 11.95	$ 119.50
34			Heat Shrink Tubing for #6 CU Wire	EA	10	0%	10	0.06	$ 70.00	$ 4.20	$ 0.60	$ 4.80	$ 48.00
35			Compression Lug CU With 1-Hole , #3 CU Wire	EA	10	0%	10	0.17	$ 70.00	$ 11.55	$ 5.55	$ 17.10	$ 171.00
36			Heat Shrink Tubing for #3 CU Wire	EA	10	0%	10	0.08	$ 70.00	$ 5.60	$ 0.80	$ 6.40	$ 64.00
37			Compression Lug CU With 1-Hole , #2 CU Wire	EA	6	0%	6	0.18	$ 70.00	$ 12.60	$ 6.52	$ 19.12	$ 114.72
38			Heat Shrink Tubing for #2 CU Wire	EA	6	0%	6	0.09	$ 70.00	$ 6.30	$ 0.90	$ 7.20	$ 43.20
39			Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	8	0%	8	0.24	$ 70.00	$ 16.80	$ 9.56	$ 26.36	$ 210.88
40			Heat Shrink Tubing for #1/0 CU Wire	EA	8	0%	8	0.12	$ 70.00	$ 8.40	$ 1.20	$ 9.60	$ 76.80
41			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	8	0%	8	0.30	$ 70.00	$ 21.00	$ 14.35	$ 35.35	$ 282.80
42			Heat Shrink Tubing for #3/0 CU Wire	EA	8	0%	8	0.16	$ 70.00	$ 11.20	$ 1.75	$ 12.95	$ 103.60
43			Compression Lug CU With 1-Hole , #4/0 CU Wire	EA	16	0%	16	0.33	$ 70.00	$ 23.10	$ 17.98	$ 41.08	$ 657.28
44			Heat Shrink Tubing for #4/0 CU Wire	EA	16	0%	16	0.18	$ 70.00	$ 12.60	$ 2.05	$ 14.65	$ 234.40
45			Compression Lug CU With 1-Hole , #500 MCM CU Wire	EA	8	0%	8	0.57	$ 70.00	$ 39.90	$ 45.55	$ 85.45	$ 683.60
46			Heat Shrink Tubing for #500 MCM CU Wire	EA	8	0%	8	0.32	$ 70.00	$ 22.40	$ 4.01	$ 26.41	$ 211.28
47			Compression Lug CU With 1-Hole , #600 MCM CU Wire	EA	56	0%	56	0.68	$ 70.00	$ 47.25	$ 53.90	$ 101.15	$ 5,664.40
48			Heat Shrink Tubing for #600 MCM CU Wire	EA	56	0%	56	0.36	$ 70.00	$ 25.20	$ 4.56	$ 29.76	$ 1,666.56
			CIRCUIT BREAKER										
49			1P/20A GFCI Circuit Breaker	EA	17	0%	17	0.44	$ 70.00	$ 30.49	$ 47.09	$ 77.58	$ 1,318.78
50			1P/20A Circuit Breaker	EA	6	0%	6	0.44	$ 70.00	$ 30.49	$ 43.09	$ 73.58	$ 441.45
51			3P/200A Main Circuit Breaker	EA	1	0%	1	1.72	$ 70.00	$ 120.40	$ 667.52	$ 787.92	$ 787.92
			PANEL										
52			Panel SL1, 200A MCB, 120/208V, 3Ph, 4W, Mains: MCB, KAIC: 10, Poles: 42, Surface Mounted, NEMA 3R	EA	1	0%	1	5.64	$ 70.00	$ 394.60	$ 2,415.00	$ 2,809.60	$ 2,809.60
			DEVICES										
53			75KVA Transformer, 480V - 120/208V, NEMA 3R	EA	1	0%	1	20.65	$ 70.00	$ 1,445.50	$ 9,120.00	$ 10,565.50	$ 10,565.50
54			Future 200KW Cummins Diesel Generator with Sub Base Tank, 277/480V, 3Ph, NEMA 3R W/ 3P/400A Circuit Breaker	EA	1	0%	1	89.00	$ 70.00	$ 6,230.00	$ 52,713.00	$ 58,943.00	$ 58,943.00
			Note: As Per Responsibility Matrix Generator Transfer Switch is Furnished by Owner & Install By Contractor. (Contractor to Verify if Required)										
55			ATS, 3P/800A Service Rated Automatic Transfer Switch, NEMA 3R	EA	1	0%	1	12.50	$ 70.00	$ 875.00	$ -	$ 875.00	$ 875.00
			DISCONNECT SWITCH										
			Note: All Disconnect Switches will be Heavy Duty with Dual Element Time Delay Fuses.										
56			1P/30A Non Fused Disconnect Switch, NEMA 3R	EA	4	0%	4	0.71	$ 70.00	$ 49.57	$ 75.88	$ 125.45	$ 501.82
57			3P/40A Non Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	0.59	$ 70.00	$ 41.30	$ 95.80	$ 137.10	$ 137.10
58			3P/100A Fused Disconnect Switch, NEMA 3R	EA	1	0%	1	0.98	$ 70.00	$ 68.60	$ 320.00	$ 388.60	$ 388.60
			GROUNDING										
59			3/4" x 10' CU Ground Rod	EA	1	0%	1	0.36	$ 70.00	$ 25.20	$ 58.59	$ 83.79	$ 83.79
60			#6 CU Grounding Conductor	LF	180	10%	198	0.010	$ 70.00	$ 0.70	$ 0.86	$ 1.56	$ 308.88
61			#4 CU Grounding Conductor	LF	15	10%	17	0.011	$ 70.00	$ 0.77	$ 1.32	$ 2.09	$ 34.49
			POWER										
	E1.0 & E1.2	As Per Site Plans	**CONDUIT**										
62			3/4" EMT Conduit	LF	31	10%	34	0.04	$ 70.00	$ 2.94	$ 1.76	$ 4.70	$ 160.25
63			3/4" EMT Conduit W/ Pullstring	LF	200	10%	220	0.06	$ 70.00	$ 4.34	$ 1.96	$ 6.30	$ 1,386.00
64			1 1/2" EMT Conduit W/ Pullstring	LF	10	10%	11	0.089	$ 70.00	$ 6.23	$ 5.55	$ 11.78	$ 129.58
65			1 1/4" EMT Conduit W/ Pullstring	LF	20	10%	22	0.089	$ 70.00	$ 6.23	$ 5.45	$ 11.68	$ 256.96
66			3/4" LFMC Conduit	LF	20	10%	22	0.05	$ 70.00	$ 3.47	$ 2.45	$ 5.92	$ 130.13
67			3/4" PVC Conduit	LF	59	10%	65	0.06	$ 70.00	$ 3.85	$ 1.33	$ 5.18	$ 336.31
68			3/4" PVC Conduit W/ Pullstring	LF	1880	10%	2068	0.06	$ 70.00	$ 3.85	$ 1.48	$ 5.33	$ 11,022.44
69			1" PVC Conduit	LF	4751	10%	5226	0.06	$ 70.00	$ 4.48	$ 1.81	$ 6.29	$ 32,882.62
70			1 1/2" PVC Conduit W/ Pullstring	LF	269	10%	296	0.08	$ 70.00	$ 5.60	$ 3.12	$ 8.72	$ 2,580.25
71			3/4" RGS Conduit	LF	60	10%	66	0.10	$ 70.00	$ 7.00	$ 4.50	$ 11.50	$ 759.00
72			1" RGS Conduit	LF	190	10%	209	0.12	$ 70.00	$ 8.61	$ 7.00	$ 15.61	$ 3,262.91
			CONDUCTOR										
73			#16 CU THWN	LF	140	10%	154	0.006	$ 70.00	$ 0.42	$ 0.15	$ 0.57	$ 87.78
74			#12 CU THWN	LF	540	10%	594	0.007	$ 70.00	$ 0.49	$ 0.25	$ 0.74	$ 439.56
75			#10 CU THWN	LF	5746	10%	6321	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 5,941.36
76			#8 CU THWN	LF	10280	10%	11308	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 13,456.52
77			#6 CU THWN	LF	554	10%	609	0.010	$ 70.00	$ 0.70	$ 0.86	$ 1.56	$ 950.66
78			CAT6 Cable	LF	35	10%	39	0.03	$ 70.00	$ 1.96	$ 0.60	$ 2.56	$ 98.56
			DEVICE										
79			2P/20A Duplex Split Wired Receptacle GFCI/WP for Block Heater	EA	9	0%	9	0.28	$ 70.00	$ 19.60	$ 34.00	$ 53.60	$ 482.40
80			Emergency Shuttoff Switch, NEMA 3R	EA	1	0%	1	0.82	$ 70.00	$ 57.40	$ 66.67	$ 124.07	$ 124.07
			SITE LIGHTING										
			CONDUIT										
81			3/4" EMT Conduit	LF	15	10%	17	0.04	$ 70.00	$ 2.94	$ 1.76	$ 4.70	$ 77.54
82			1" PVC Conduit	LF	2093	10%	2302	0.06	$ 70.00	$ 4.48	$ 1.81	$ 6.29	$ 14,486.07

Phone: +1 708-381-0900

DETAILED BREAKDOWN OF ITEMS

Prepared for: R+L Carriers Umatilla Facility, 711 Umatilla River Rd., Umatilla OR 97882
Project ID: 46293
Scope: HVAC, Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			CONDUCTOR										
83			#12 CU THWN	LF	393	10%	432	0.007	$ 70.00	$ 0.49	$ 0.25	$ 0.74	$ 319.90
84			#10 CU THWN	LF	2472	10%	2719	0.008	$ 70.00	$ 0.56	$ 0.38	$ 0.94	$ 2,556.05
85			#8 CU THWN	LF	4944	10%	5438	0.009	$ 70.00	$ 0.63	$ 0.56	$ 1.19	$ 6,471.70
			LIGHTING FIXTURES										
			Note: As Per Responsibility Matrix Lighting Fixtures are Furnished By Owner & Install By Contractor. (Contractor to Verify if Required)										
86			SL1-1 – LED Pole Light, Manufacturer: Site Lighter, Model: LL-SL1-LG-300WD-50K-60-UNV-G2, 300W LED, 277V, Pole Mounted, 30' Mounting Height	EA	6	0%	6	1.55	$ 70.00	$ 108.50	$ -	$ 108.50	$ 651.00
87			SL2-1 – LED Pole Light, Manufacturer: Site Lighter, Model: LL-SL1-LG-300WD-50K-T2-UNV-G2, 300W LED, 277V, Pole Mounted, 30' Mounting Height	EA	2	0%	2	1.55	$ 70.00	$ 108.50	$ -	$ 108.50	$ 217.00
88			SL6-1 – LED Pole Light, Manufacturer: Site Lighter, Model: LL-SL1-MD-150W-50K-T4-UNV, 277V, Pole Mounted, 30' Mounting Height	EA	3	0%	3	1.50	$ 70.00	$ 105.00	$ -	$ 105.00	$ 315.00
89			SL6-2-2 – LED Pole Light (2 @ 90 Degrees), Manufacturer: Site Lighter, Model: LL-SL1-MD-150W-50K-T4-UNV, 277V, Pole Mounted, 30' Mounting Height	EA	1	0%	1	1.50	$ 70.00	$ 105.00	$ -	$ 105.00	$ 105.00
			Note: As Per Responsibility Matrix Lighting Fixtures are Furnished & Install By Contractor. (Contractor to Verify if Required)										
90			OH – Flag Pole Light, Manufacturer: Alphalite Inc., Model: FLW-20/40K-K, 20W LED, 120V, Ground Mounted	EA	3	0%	3	1.65	$ 70.00	$ 115.50	$ -	$ 115.50	$ 346.50
			LIGHTING POLE ACCESSORIES										
91			35' Steel Pole for Pole Lights W/ (4) Anchor Bolts (1) Handhole (1) Base Cover Plate	EA	12	0%	12	8.50	$ 70.00	$ 595.00	$ 2,759.00	$ 3,354.00	$ 40,248.00
92			Concrete Base	EA	12	0%	12	2.87	$ 70.00	$ 200.90	$ 270.00	$ 470.90	$ 5,650.80
			SITE LOW VOLTAGE										
			CONDUIT										
93			2" EMT Conduit W/ Pullstring	LF	50	10%	55	0.10	$ 70.00	$ 7.00	$ 6.22	$ 13.22	$ 727.12
94			3" EMT Conduit W/ Pullstring	LF	25	10%	28	0.16	$ 70.00	$ 11.20	$ 11.92	$ 23.12	$ 635.80
95			2" PVC Conduit W/ Pullstring	LF	1066	10%	1173	0.09	$ 70.00	$ 6.23	$ 4.40	$ 10.63	$ 12,464.74
96			3" PVC Conduit W/ Pullstring	LF	993	10%	1092	0.15	$ 70.00	$ 10.15	$ 6.60	$ 16.75	$ 18,296.03
			MISCELLANEOUS										
97			3000KVA 277/480V 3Ph, 4W Pad Mounted Utility Transformer	EA	1	0%	1	105.00	$ 70.00	$ 7,350.00	$ 104,000.00	$ 111,350.00	$ 111,350.00
98			4" Thick Concrete Pad	EA	1	0%	1	7.78	$ 70.00	$ 544.60	$ 952.00	$ 1,496.60	$ 1,496.60
99			4" Thick Concrete Pad for Utility Transformer	EA	1	0%	1	7.78	$ 70.00	$ 544.60	$ 788.00	$ 1,332.60	$ 1,332.60
100			Flush in Grade Traffic Rated Quazite Box	EA	1	0%	1	4.80	$ 70.00	$ 336.00	$ 651.99	$ 987.99	$ 987.99
101			H Frame Structure for Electrical Panel & Disconnect Switch	EA	1	0%	1	3.56	$ 70.00	$ 249.20	$ 960.00	$ 1,209.20	$ 1,209.20
102			Junction Box WP	EA	9	0%	9	0.35	$ 70.00	$ 24.50	$ 28.65	$ 53.15	$ 478.35
103			Junction Box, NEMA 3R	EA	2	0%	2	0.36	$ 70.00	$ 25.20	$ 31.22	$ 56.42	$ 112.84
			TRENCHING & BACKFILLING										
104			Excavation & Backfilling (2' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CY	273	0%	273	0.70	$ 70.00	$ 49.00	$ -	$ 49.00	$ 13,377.00
												SUBTOTAL	**$ 508,807**

PROJECTED COST		**$649,530**
OVERHEAD AND PROFIT	**15%**	**$97,429**
	15%	**$97,429**
	10%	**$25,634**
INSURANCE	**3%**	**$19,486**
CONTINGENCY	**5%**	**$32,476**
TAX	**0.0%**	**$0**
SUGGESTED BID		**$921,986**

Notes:

1. Fuel Canopy By Others, Deferred Submittal.
2. Fuel station drawings were provided for reference only; therefore, the estimate has been prepared in accordance with the Electrical Plans.
3. New truck terminal facility consisting of maintenance service lanes, maintenance/detail bays, cross-dock terminal areas, and associated office spaces.

ELECTRICAL ESTIMATION

DETAILED BREAKDOWN OF ITEMS

Prepared for: R+L Carriers Umatilla Facility, 711 Umatilla River Rd., Umatilla OR 97882
Project ID: 46293
Scope: HVAC, Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
	TERMINAL BUILDING				
	ELECTRICAL				
	DISTRIBUTION				
	CONDUIT				
	1 Cut Length = 10 LF				
1	1 1/2" EMT Conduit	EA	10	0%	10
2	2" EMT Conduit	EA	15	0%	15
3	3 1/2" EMT Conduit	EA	2	0%	2
4	1 1/2" FLEX S Conduit	EA	1	0%	1
5	2" FLEX S Conduit	EA	1	0%	1
6	3 1/2" FLEX S Conduit	EA	1	0%	1
	CONDUCTOR				
	1 Roll = 100 LF				
7	#8 CU THWN	Roll	1	0%	1
8	#6 CU THWN	Roll	1	0%	1
9	#3 CU THWN	Roll	4	0%	4
10	#1/0 CU THWN	Roll	1	0%	1
11	#3/0 CU THWN	Roll	6	0%	6
12	#600 MCM CU THWN	Roll	1	0%	1
	LUGS				
13	Compression Lug CU With 1-Hole , #6 CU Wire	EA	6	0%	6
14	Heat Shrink Tubing for #6 CU Wire	EA	6	0%	6
15	Compression Lug CU With 1-Hole , #3 CU Wire	EA	28	0%	28
16	Heat Shrink Tubing for #3 CU Wire	EA	28	0%	28
17	Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	6	0%	6
18	Heat Shrink Tubing for #1/0 CU Wire	EA	6	0%	6
19	Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	32	0%	32
20	Heat Shrink Tubing for #3/0 CU Wire	EA	32	0%	32
21	Compression Lug CU With 1-Hole , #600 MCM CU Wire	EA	8	0%	8
22	Heat Shrink Tubing for #600 MCM CU Wire	EA	8	0%	8
	CIRCUIT BREAKER				
23	1P/20A Circuit Breaker	EA	133	0%	133
24	1P/20A GFCI Circuit Breaker	EA	50	0%	50
25	2P/20A Circuit Breaker	EA	3	0%	3
26	2P/25A Circuit Breaker	EA	2	0%	2
27	2P/30A Circuit Breaker	EA	1	0%	1
28	2P/40A Circuit Breaker	EA	3	0%	3
29	3P/15A Circuit Breaker	EA	2	0%	2
30	3P/20A Circuit Breaker	EA	1	0%	1
31	3P/30A Circuit Breaker	EA	1	0%	1
32	3P/35A Circuit Breaker	EA	1	0%	1
33	3P/100A Circuit Breaker	EA	4	0%	4
34	3P/100A Fused Circuit Breaker	EA	1	0%	1
35	3P/100AT/100AF Fused LPJ Circuit Breaker	EA	1	0%	1
36	3P/200A Main Circuit Breaker	EA	2	0%	2
37	3P/200A Fused Circuit Breaker	EA	1	0%	1
38	3P/200AT/200AF Fused LPJ Circuit Breaker	EA	1	0%	1
39	3P/400AT/400AF Fused LPJ Circuit Breaker	EA	2	0%	2
	PANEL				
40	Panel H1, 400A, 277/480V, 3Ph, 4W, Mains: MLO, KAIC: 30, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1

DETAILED BREAKDOWN OF ITEMS

Prepared for: R+L Carriers Umatilla Facility, 711 Umatilla River Rd., Umatilla OR 97882
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Date: 28-Sep-26

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
41	Panel H2, 200A, 277/480V, 3Ph, 4W, Mains: MLO, KAIC: 14, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1
42	Panel L1(2-Sections), 200A MCB, 120/208V, 3Ph, 4W, Mains: MCB, KAIC: 10, Poles: 84, Surface Mounted, NEMA 1	EA	1	0%	1
43	Panel L2, 200A MCB, 120/208V, 3Ph, 4W, Mains: MCB, KAIC: 10, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1
44	Panel L2A, 100A, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 10, Poles: 60, Surface Mounted, NEMA 1	EA	1	0%	1
45	Panel L2B, 100A, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 10, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1
46	Panel MDP, 800A, 277/480V, 3Ph, 4W, KAIC: 65, Braced, Surface Mounted, Poles:24, NEMA 3R	EA	1	0%	1
	DEVICES				
47	112.5 KVA Transformer, 480 - 120/208V, NEMA 1	EA	1	0%	1
48	75 KVA Transformer, 480 - 120/208V, NEMA 1	EA	1	0%	1
49	800A CT Cabinet, NEMA 3R	EA	1	0%	1
50	800A Trystar Generator Docking Station, NEMA 3R	EA	1	0%	1
51	800A Utility Meter, NEMA 3R	EA	1	0%	1
52	ATS, 3P/800A, 277/480V, 3Ph, Service Rated Automatic Transfer Switch, NEMA	EA	1	0%	1
	DISCONNECT SWITCH				
	Note: All Disconnect Switches will be Heavy Duty with Dual Element Time Delay Fuses.				
53	2P/30A Non Fused Disconnect Switch, NEMA 1	EA	3	0%	3
54	2P/40A Non Fused Disconnect Switch, NEMA 3R	EA	1	0%	1
55	2P/50A Non Fused Disconnect Switch, NEMA 3R	EA	3	0%	3
56	3P/30A Non Fused Disconnect Switch, NEMA 1	EA	3	0%	3
57	3P/30A Non Fused Disconnect Switch, NEMA 1	EA	1	0%	1
58	3P/60AT/35AF Fused Disconnect Switch, NEMA 3R	EA	1	0%	1
	GROUNDING				
59	3/4" x 10' CU Ground Rod	EA	4	0%	4
60	Main Grounding Bus Bar	EA	1	0%	1
61	#3/0 CU Bonding Jumper	EA	1	0%	1
62	#4 CU Grounding Conductor (1 Roll = 100 LF)	Roll	1	0%	1
63	#3/0 CU Grounding Conductor (1 Roll = 50 LF)	Roll	1	0%	1
	POWER				
	CONDUIT				
	1 Cut Length = 10 LF				
64	3/4" EMT Conduit	EA	1998	0%	1998
65	1" EMT Conduit	EA	19	0%	19
66	2" EMT Conduit	EA	27	0%	27
67	3" EMT Conduit W/ Pullstring	EA	23	0%	23
68	3/4" FLEX S Conduit	EA	4	0%	4
69	2" FLEX S Conduit	EA	1	0%	1
70	3/4" LFMC Conduit	EA	1	0%	1
71	1" LFMC Conduit	EA	2	0%	2
72	1" PVC Conduit	EA	247	0%	247
73	2" PVC Conduit	EA	9	0%	9
74	3/4" RGS Conduit	EA	1	0%	1
75	1" RGS Conduit	EA	2	0%	2
	CONDUCTOR				
	1 Roll = 100 LF				
76	3#12 MC Cable	Roll	8	0%	8
77	3#10 MC Cable	Roll	2	0%	2
78	2#8, #10 MC Cable	Roll	3	0%	3
79	#12 CU THWN	Roll	57	0%	57
80	#10 CU THWN	Roll	264	0%	264
81	#8 CU THWN	Roll	384	0%	384
	DEVICE				
82	1P/20A Motor Rated Switch	EA	16	0%	16
83	Duplex Receptacle	EA	95	0%	95
84	Duplex Receptacle GFCI	EA	31	0%	31
85	Duplex Receptacle GFCI\WP	EA	1	0%	1
86	Equipment Connection	EA	9	0%	9
	LIGHTING				
	CONDUIT				

DETAILED BREAKDOWN OF ITEMS

Prepared for: R+L Carriers Umatilla Facility, 711 Umatilla River Rd., Umatilla OR 97882
Project ID: 46293
Scope: HVAC, Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE
	1 Cut Length = 10 LF				
87	3/4" EMT Conduit	EA	125	0%	125
88	3/4" FLEX S Conduit	EA	1	0%	1
	CONDUCTOR				
	1 Roll = 100 LF				
89	2#8, #10 MC Cable	Roll	38	0%	38
90	#10 CU THWN	Roll	28	0%	28
91	#8 CU THWN	Roll	15	0%	15
	LIGHTING CONTROL				
92	Ceiling Mounted Occupancy Sensor	EA	3	0%	3
93	Mechanically Held Lighting Contactor, 4 Pole, 20A Contacts, ASCO ACCESSORY #47	EA	1	0%	1
94	Override Switch	EA	1	0%	1
95	Photocell	EA	1	0%	1
96	Time Clock	EA	1	0%	1
97	Wall Mounted Occupancy Sensor Switch	EA	20	0%	20
	MISCELLANEOUS				
98	Wall Mounted Junction Box	EA	5	0%	5
99	Ceiling Mounted Junction Box	EA	18	0%	18
	COMMUNICATION				
	TELECOMMUNICATION				
	CONDUIT				
	1 Cut Length = 10 LF				
100	3/4" EMT Conduit with Pull String	EA	36	0%	36
101	1" PVC Conduit W/ Pullstring	EA	9	0%	9
	DEVICES				
102	4" Square Back Box	EA	33	0%	33
	MAINTENANCE BUILDING				
	ELECTRICAL				
	DISTRIBUTION				
	CONDUIT				
	1 Cut Length = 10 LF				
103	1 1/2" EMT Conduit	EA	11	0%	11
104	3 1/2" EMT Conduit	EA	2	0%	2
105	1 1/2" FLEX S Conduit	EA	1	0%	1
106	3 1/2" FLEX S Conduit	EA	1	0%	1
	CONDUCTOR				
	1 Roll = 100 LF				
107	#8 CU THWN	Roll	1	0%	1
108	#6 CU THWN (1 Roll = 50 LF)	Roll	1	0%	1
109	#3 CU THWN	Roll	4	0%	4
110	#1/0 CU THWN	Roll	1	0%	1
111	#600 MCM CU THWN	Roll	1	0%	1
	LUGS				
112	Compression Lug CU With 1-Hole , #6 CU Wire	EA	32	0%	32
113	Heat Shrink Tubing for #6 CU Wire	EA	32	0%	32
114	Compression Lug CU With 1-Hole , #3 CU Wire	EA	34	0%	34
115	Heat Shrink Tubing for #3 CU Wire	EA	34	0%	34
116	Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	6	0%	6
117	Heat Shrink Tubing for #1/0 CU Wire	EA	6	0%	6
118	Compression Lug CU With 1-Hole , #600 MCM CU Wire	EA	8	0%	8
119	Heat Shrink Tubing for #600 MCM CU Wire	EA	8	0%	8
	CIRCUIT BREAKER				
120	1P/20A Circuit Breaker	EA	124	0%	124
121	2P/20A Circuit Breaker	EA	14	0%	14
122	2P/30A Circuit Breaker	EA	2	0%	2
123	2P/40A Circuit Breaker	EA	1	0%	1
124	2P/50A Circuit Breaker	EA	6	0%	6
125	3P/15A Circuit Breaker	EA	2	0%	2
126	3P/20A Circuit Breaker	EA	5	0%	5
127	3P/30A Circuit Breaker	EA	1	0%	1

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128	3P/100A Circuit Breaker	EA	4	0%	4
129	3P/150A Circuit Breaker	EA	1	0%	1
	PANEL				
130	Panel H3, 400A, 277/480V, 3Ph, 4W, Mains: MLO, KAIC: 14, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1
131	Panel L3 (2-Sections), 400A, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 22, Poles: 84, Surface Mounted, NEMA 1	EA	1	0%	1
132	Panel L4, 200A, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 10, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1
133	Panel L5, 125, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 10, Poles: 72, Surface Mounted, NEMA 1	EA	1	0%	1
134	Panel L6, 100A, 120/208V, 3Ph, 4W, Mains: MLO, KAIC: 10, Poles: 42, Surface Mounted, NEMA 1	EA	1	0%	1
	DEVICES				
135	112.5 KVA Transformer, 480 - 120/208V, NEMA 1	EA	1	0%	1
136	3P/100A Contactor, 3Ph, 4W, 120V Coil , NEMA 1	EA	1	0%	1
	DISCONNECT SWITCH				
	Note: All Disconnect Switches will be Heavy Duty with Dual Element Time Delay Fuses.				
137	1P/30A Non Fused Disconnect Switch, NEMA 1	EA	10	0%	10
138	2P/30A Non Fused Disconnect Switch, NEMA 1	EA	2	0%	2
139	2P/40A Non Fused Disconnect Switch, NEMA 1	EA	1	0%	1
140	2P/40A Non Fused Disconnect Switch, NEMA 3R	EA	1	0%	1
141	3P/20A Non Fused Disconnect Switch, NEMA 1	EA	1	0%	1
142	3P/30A Non Fused Disconnect Switch, NEMA 1	EA	4	0%	4
	GROUNDING				
143	3/4" x 10' CU Ground Rod	EA	1	0%	1
144	#4 CU Grounding Conductor (1 Roll = 30 LF)	Roll	1	0%	1
	POWER				
	CONDUIT				
	1 Cut Length = 10 LF				
145	3/4" EMT Conduit	EA	439	0%	439
146	1" EMT Conduit	EA	59	0%	59
147	3" EMT Conduit W/ Pullstring	EA	7	0%	7
148	3/4" FLEX S Conduit	EA	8	0%	8
149	3/4" LFMC Conduit	EA	1	0%	1
150	3/4" RGS Conduit	EA	1	0%	1
	CONDUCTOR				
	1 Roll = 100 LF				
151	3#12 MC Cable	Roll	3	0%	3
152	3#10 MC Cable	Roll	2	0%	2
153	#12 CU THWN	Roll	68	0%	68
154	#10 CU THWN	Roll	70	0%	70
155	#8 CU THWN	Roll	19	0%	19
156	#6 CU THWN	Roll	18	0%	18
	DEVICE				
157	1P/20A Motor Rated Switch	EA	4	0%	4
158	2P/40A Special Purpose Receptacle	EA	1	0%	1
159	2P/50A Special Purpose Receptacle	EA	5	0%	5
160	Duplex Receptacle	EA	21	0%	21
161	Duplex Receptacle GFCI	EA	29	0%	29
162	Duplex Receptacle GFCI\WP	EA	4	0%	4
163	Equipment Connection	EA	17	0%	17
164	Heavy Duty Grips, HUBBELL KELLUM	EA	4	0%	4
	LIGHTING				
	CONDUIT				
	1 Cut Length = 10 LF				
165	3/4" EMT Conduit	EA	74	0%	74
166	3/4" FLEX S Conduit	EA	2	0%	2
167	1" PVC Conduit	EA	38	0%	38
	CONDUCTOR				
	1 Roll = 100 LF				
168	3#10 MC Cable	Roll	3	0%	3
169	2#8, #10 MC Cable	Roll	14	0%	14
170	#12 CU THWN	Roll	3	0%	3

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171	#10 CU THWN	Roll	14	0%	14
172	#8 CU THWN	Roll	17	0%	17
	LIGHTING CONTROL				
173	3 Way Switch	EA	4	0%	4
174	Switch Bank "B" W/ (3) Single Pole Switches	EA	1	0%	1
175	Wall Mounted Occupancy Sensor Switch	EA	10	0%	10
176	Wall Mounted Single Pole Switch	EA	3	0%	3
	MISCELLANEOUS				
177	Ceiling Mounted Junction Box	EA	7	0%	7
178	Wall Mounted Junction Box	EA	3	0%	3
179	Wall Mounted Junction Box WP	EA	1	0%	1
	COMMUNICATION				
	TELECOMMUNICATION				
	CONDUIT				
	1 Cut Length = 10 LF				
180	3/4" EMT Conduit with Pull String	EA	4	0%	4
	DEVICES				
181	1/2" x 8' x 7' Fire Rated Plywood Back Board	EA	5	0%	5
182	4" Square Back Box	EA	4	0%	4
	UTILITIES				
	UTILITIES				
	DISTRIBUTION				
	CONDUIT				
	1 Cut Length = 10 LF				
183	1 1/2" EMT Conduit	EA	1	0%	1
184	3" EMT Conduit	EA	2	0%	2
185	4" EMT Conduit	EA	11	0%	11
186	1 1/2" LFMC Conduit	EA	1	0%	1
187	2" LFMC Conduit	EA	1	0%	1
188	4" LFMC Conduit	EA	2	0%	2
189	1 1/2" PVC Conduit	EA	42	0%	42
190	3" PVC Conduit	EA	117	0%	117
191	4" PVC Conduit	EA	31	0%	31
192	1 1/2" RGS Conduit	EA	2	0%	2
193	2" RGS Conduit	EA	1	0%	1
194	4" RGS Conduit	EA	4	0%	4
	CONDUCTOR				
	1 Roll = 100 LF				
195	#6 CU THWN	Roll	5	0%	5
196	#3 CU THWN	Roll	12	0%	12
197	#2 CU THWN	Roll	13	0%	13
198	#1/0 CU THWN	Roll	3	0%	3
199	#3/0 CU THWN	Roll	1	0%	1
200	#4/0 CU THWN	Roll	48	0%	48
201	#500 MCM CU THWN	Roll	3	0%	3
202	#600 MCM CU THWN	Roll	16	0%	16
	LUGS				
203	Compression Lug CU With 1-Hole , #6 CU Wire	EA	10	0%	10
204	Heat Shrink Tubing for #6 CU Wire	EA	10	0%	10
205	Compression Lug CU With 1-Hole , #3 CU Wire	EA	10	0%	10
206	Heat Shrink Tubing for #3 CU Wire	EA	10	0%	10
207	Compression Lug CU With 1-Hole , #2 CU Wire	EA	6	0%	6
208	Heat Shrink Tubing for #2 CU Wire	EA	6	0%	6
209	Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	8	0%	8
210	Heat Shrink Tubing for #1/0 CU Wire	EA	8	0%	8
211	Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	8	0%	8
212	Heat Shrink Tubing for #3/0 CU Wire	EA	8	0%	8
213	Compression Lug CU With 1-Hole , #4/0 CU Wire	EA	16	0%	16
214	Heat Shrink Tubing for #4/0 CU Wire	EA	16	0%	16
215	Compression Lug CU With 1-Hole , #500 MCM CU Wire	EA	8	0%	8
216	Heat Shrink Tubing for #500 MCM CU Wire	EA	8	0%	8

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217	Compression Lug CU With 1-Hole , #600 MCM CU Wire	EA	56	0%	56
218	Heat Shrink Tubing for #600 MCM CU Wire	EA	56	0%	56
	CIRCUIT BREAKER				
219	1P/20A GFCI Circuit Breaker	EA	17	0%	17
220	1P/20A Circuit Breaker	EA	6	0%	6
221	3P/200A Main Circuit Breaker	EA	1	0%	1
	PANEL				
222	Panel SL1, 200A MCB, 120/208V, 3Ph, 4W, Mains: MCB, KAIC: 10, Poles: 42, Surface Mounted, NEMA 3R	EA	1	0%	1
	DEVICES				
223	75KVA Transformer, 480V - 120/208V, NEMA 3R	EA	1	0%	1
224	Future 200KW Cummins Diesel Generator with Sub Base Tank, 277/480V, 3Ph, NEMA 3R W/ 3P/400A Circuit Breaker	EA	1	0%	1
	DISCONNECT SWITCH				
	Note: All Disconnect Switches will be Heavy Duty with Dual Element Time Delay Fuses.				
225	1P/30A Non Fused Disconnect Switch, NEMA 3R	EA	4	0%	4
226	3P/40A Non Fused Disconnect Switch, NEMA 3R	EA	1	0%	1
227	3P/100A Fused Disconnect Switch, NEMA 3R	EA	1	0%	1
	GROUNDING				
228	3/4" x 10' CU Ground Rod	EA	1	0%	1
229	#6 CU Grounding Conductor (1 Roll = 100 LF)	Roll	1	0%	1
230	#4 CU Grounding Conductor (1 Roll = 20 LF)	Roll	1	0%	1
	POWER				
	CONDUIT				
	1 Cut Length = 10 LF				
231	3/4" EMT Conduit	EA	3	0%	3
232	3/4" EMT Conduit W/ Pullstring	EA	22	0%	22
233	1 1/2" EMT Conduit W/ Pullstring	EA	1	0%	1
234	1 1/4" EMT Conduit W/ Pullstring	EA	2	0%	2
235	3/4" LFMC Conduit	EA	2	0%	2
236	3/4" PVC Conduit	EA	7	0%	7
237	3/4" PVC Conduit W/ Pullstring	EA	207	0%	207
238	1" PVC Conduit	EA	523	0%	523
239	1 1/2" PVC Conduit W/ Pullstring	EA	30	0%	30
240	3/4" RGS Conduit	EA	7	0%	7
241	1" RGS Conduit	EA	21	0%	21
	CONDUCTOR				
	1 Roll = 100 LF				
242	#16 CU THWN	Roll	2	0%	2
243	#12 CU THWN	Roll	6	0%	6
244	#10 CU THWN	Roll	63	0%	63
245	#8 CU THWN	Roll	113	0%	113
246	#6 CU THWN	Roll	6	0%	6
247	CAT6 Cable (1 Roll = 50 LF)	Roll	1	0%	1
	DEVICE				
248	2P/20A Duplex Split Wired Receptacle GFCI/WP for Block Heater	EA	9	0%	9
249	Emergency Shuttoff Switch, NEMA 3R	EA	1	0%	1
	SITE LIGHTING				
	CONDUIT				
	1 Cut Length = 10 LF				
250	3/4" EMT Conduit	EA	2	0%	2
251	1" PVC Conduit	EA	230	0%	230
	CONDUCTOR				
	1 Roll = 100 LF				
252	#12 CU THWN	Roll	5	0%	5
253	#10 CU THWN	Roll	27	0%	27
254	#8 CU THWN	Roll	54	0%	54
	LIGHTING FIXTURES				
255	OH – Flag Pole Light, Manufacturer: Alphalite Inc., Model: FLW-20/40K-K, 20W LED, 120V, Ground Mounted	EA	3	0%	3
	LIGHTING POLE ACCESSORIES				

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256	35' Steel Pole for Pole Lights W/ (4) Anchor Bolts (1) Handhole (1) Base Cover Plate	EA	12	0%	12
257	Concrete Base	EA	12	0%	12
	SITE LOW VOLTAGE				
	CONDUIT				
	1 Cut Length = 10 LF				
258	2" EMT Conduit W/ Pullstring	EA	6	0%	6
259	3" EMT Conduit W/ Pullstring	EA	3	0%	3
260	2" PVC Conduit W/ Pullstring	EA	117	0%	117
261	3" PVC Conduit W/ Pullstring	EA	109	0%	109
	MISCELLANEOUS				
262	3000KVA 277/480V 3Ph, 4W Pad Mounted Utility Transformer	EA	1	0%	1
263	4" Thick Concrete Pad	EA	1	0%	1
264	4" Thick Concrete Pad for Utility Transformer	EA	1	0%	1
265	Flush in Grade Traffic Rated Quazite Box	EA	1	0%	1
266	H Frame Structure for Electrical Panel & Disconnect Switch	EA	1	0%	1
267	Junction Box WP	EA	9	0%	9
268	Junction Box, NEMA 3R	EA	2	0%	2

ELECTRICAL ESTIMATION