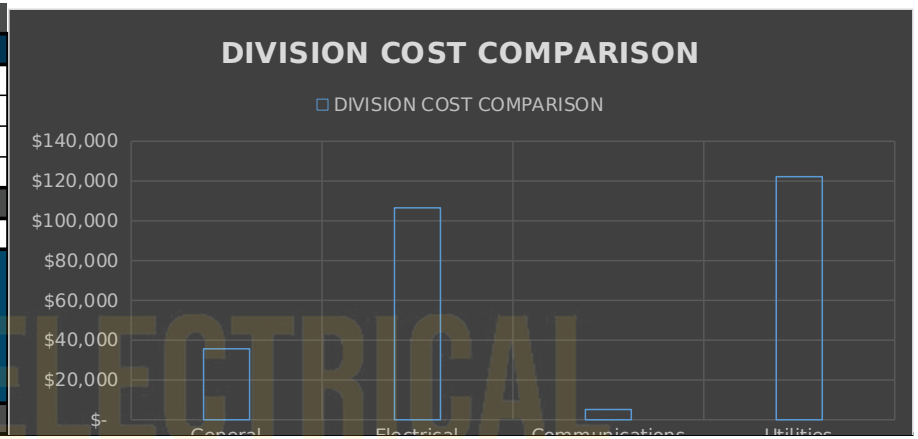
GENERAL SUMMARY

Prepared for: Dunaway 118 Mckinney St. P.O. Box 606.Farmersville, Texas 75442
Project ID: 14092026
Scope: Electrical
No. Of Floors: 1
Date: 28-Sep-26

ELECTRICAL ESTIMATION
+1 708-381-0900

BUILDING GSF	251	
DIVISION NO	**DESCRIPTION**	**TOTAL DIV. COST**
1000	General Requirements	$ 35,650
26000	Electrical	$ 106,569
27000	Communications	$ 5,146
33000	Utilities	$ 122,185
TOTAL TRADE COST		**$ 269,551**
OVERHEAD AND PROFIT	**15%**	$ 40,433
INSURANCE	**3%**	$ 8,087
LABOR BURDEN	**50%**	$ 19,851
CONTINGENCY	**5%**	$ 13,478
TAX	**8%**	$ 12,020
SUGGESTED BID		**$ 363,418**



ELECTRICAL ESTIMATION

DETAILED BREAKDOWN OF ITEMS

Prepared for: Dunaway 118 Mckinney St. P.O. Box 606.Farmersville, Texas 75442
Project ID: 14092026
Scope: Electrical

ELECTRICAL ESTIMATION
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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
			GENERAL REQUIREMENTS										
			ADMINISTRATIVE REQUIREMENTS										
1			Project Management & Coordination (LS $6500: Electrical PM/foreman part-time, ~10 wks x 12 hr/wk x $45; coordination w/ WHECO (SCADA), Cummins & utility)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 6,500.00	$ 6,500.00
2			Submittals (LS $1800: Product data for panel, MPC, ATS, generator, SPDs, VFD/filter, fixtures, grounding (~40 office hrs))	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,800.00	$ 1,800.00
3			Shop Drawings (GR LS $1500: Duct-bank sections, handhole detail, generator pad/conduit layout, one-line mark-ups)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,500.00	$ 1,500.00
4			Owner/Governmental Safety Requirements (LS $1200: Site-specific safety plan, JHAs, trench-safety documentation, weekly toolbox talks)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,200.00	$ 1,200.00
5			Special Permits (like Building Service Lift))	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
6			Traffic Management (Lane Closure, Flaggers, Diversion Barriers) (LS $750: Cones/barricades at driveway & duct-bank crossing during trenching; no lane closure assumed)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 750.00	$ 750.00
7			CPM Construction Schedule & Updates (LS $1200: Baseline schedule + monthly updates (~24 hrs))	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,200.00	$ 1,200.00
8			Progress Photos & Documentation (LS $400: Weekly photos & daily reports)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 400.00	$ 400.00
			QUALITY REQUIREMENTS										
9			Permits (GR LS $2500: City of Farmersville electrical permit & inspections (~$400k valuation))	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 2,500.00	$ 2,500.00
10			Testing, Commissioning & Inspection Services (GR LS $3500: Megger tests on feeders, 3-point ground test, ATS/generator 2-hr load bank & startup (Cummins tech), SPD verification, torque records)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 3,500.00	$ 3,500.00
11			Mockups (GR LS $0: No mockups required for electrical scope)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
			TEMPORARY FACILITIES & CONTROLS										
12			Temporary Utilities (LS $800: Temp power cords/GFCI spider boxes & fuel for tools; utility power assumed available)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 800.00	$ 800.00
13			Construction Facilities (LS $600: Portable toilet share & hand-wash station, ~10 wks)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 600.00	$ 600.00
14			Temporary Barriers and Enclosures (LS $600: Open-trench barricades, plates & caution fence during duct-bank work)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 600.00	$ 600.00
15			Lifting Equipment LS $4500: Crane/boom truck to set 250kW generator (~1 day incl. rigging) + forklift for ATS/panel)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 4,500.00	$ 4,500.00
16			Rental Equipment	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
17			Field Office / Job Trailer (LS $1200: Job box & shared trailer/conex, ~10 wks)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,200.00	$ 1,200.00
18			Temporary Fencing & Site Security (LS $900: Temp panel fence around generator pad & staging, ~8 wks)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 900.00	$ 900.00
19			Project Signage	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
20			Temporary Fire Protection & Weather Protection	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
			EXECUTION & CLOSEOUT REQUIREMENT										
21			Surveying, Layout & Field Engineering	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
22			Cleaning and Waste Management (GR LS $1200: Trench spoils haul-off, packaging disposal, dumpster share)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 1,200.00	$ 1,200.00
23			Closeout Submittals	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
24			Demonstration & Training (GR LS $900: Owner training on generator/ATS/panel & SPDs, 2 sessions)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 900.00	$ 900.00
25			Final Cleaning (GR LS $500: Final clean of electrical rooms/equipment, label check)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 500.00	$ 500.00
26			As-Built / Record Drawings	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
27			O&M Manuals	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
28			Final Inspections & Certificate of Occupancy (LS $600: Final electrical inspection attendance & punch-list)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 600.00	$ 600.00
			MISC.										
29			Bid Bonds	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
30			Scaffolding	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
31			Performance & Payment Bonds	LS	1	0%	1	0.000	$ -	$ -	$ -	$ -	$ -
32			Mobilization / Demobilization (LS $4500: Crew/equipment mob-demob (2 trips); material staging & delivery coordination for generator/ATS/panel)	LS	1	0%	1	0.000	$ -	$ -	$ -	$ 4,500.00	$ 4,500.00
												SUBTOTAL	$ 35,650
			ELECTRICAL										
			DISTRIBUTION										
			CONDUIT										
33			3/4" EMT Conduit	LF	31	10%	34	0.05	$ 45.00	$ 2.05	$ 1.85	$ 3.90	$ 132.90
34			1" EMT Conduit	LF	30	10%	33	0.06	$ 45.00	$ 2.63	$ 2.95	$ 5.58	$ 184.22
35			1-1/4" EMT Conduit	LF	9	10%	10	0.07	$ 45.00	$ 3.22	$ 4.60	$ 7.82	$ 77.39
36			2" EMT Conduit	LF	33	10%	36	0.10	$ 45.00	$ 4.39	$ 7.20	$ 11.59	$ 420.63
37			3/4" RGS Conduit	LF	2	10%	2	0.08	$ 45.00	$ 3.51	$ 3.12	$ 6.63	$ 14.58
38			1" RGS Conduit	LF	18	10%	20	0.10	$ 45.00	$ 4.39	$ 4.52	$ 8.91	$ 176.42
39			2" RGS Conduit	LF	24	10%	26	0.16	$ 45.00	$ 7.02	$ 10.08	$ 17.10	$ 451.55
			CONDUCTOR										
40			#12 CU THHN/THWN	LF	216	10%	238	0.01	$ 45.00	$ 0.29	$ 0.23	$ 0.52	$ 123.41
41			#10 CU THHN/THWN	LF	38	10%	42	0.01	$ 45.00	$ 0.35	$ 0.35	$ 0.70	$ 29.18
42			#8 CU THHN/THWN	LF	9	10%	10	0.01	$ 45.00	$ 0.44	$ 0.64	$ 1.09	$ 10.74
43			#3 CU THHN/THWN	LF	57	10%	63	0.02	$ 45.00	$ 0.70	$ 1.65	$ 2.35	$ 147.47
44			#1 CU THHN/THWN	LF	18	10%	20	0.02	$ 45.00	$ 0.88	$ 2.74	$ 3.62	$ 71.71
45			#1/0 CU THHN/THWN	LF	93	10%	102	0.02	$ 45.00	$ 0.99	$ 3.36	$ 4.35	$ 445.46
46			#3/0 CU THHN/THWN	LF	104	10%	114	0.03	$ 45.00	$ 1.23	$ 5.22	$ 6.45	$ 738.09
			LUGS										
47			Compression Lug CU With 1-Hole , #8 CU Wire	EA	2	0%	2	0.20	$ 45.00	$ 8.78	$ 3.20	$ 11.98	$ 23.95
48			Heat Shrink Tubing for #8 CU Wire	EA	2	0%	2	0.13	$ 45.00	$ 5.85	$ 2.20	$ 8.05	$ 16.10
49			Compression Lug CU With 1-Hole , #3 CU Wire	EA	16	0%	16	0.33	$ 45.00	$ 14.63	$ 5.10	$ 19.73	$ 315.60
50			Heat Shrink Tubing for #3 CU Wire	EA	16	0%	16	0.16	$ 45.00	$ 7.02	$ 3.40	$ 10.42	$ 166.72
51			Compression Lug CU With 1-Hole , #1 CU Wire	EA	4	0%	4	0.39	$ 45.00	$ 17.55	$ 6.80	$ 24.35	$ 97.40
52			Heat Shrink Tubing for #1 CU Wire	EA	4	0%	4	0.16	$ 45.00	$ 7.02	$ 4.10	$ 11.12	$ 44.48
53			Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	24	0%	24	0.46	$ 45.00	$ 20.48	$ 7.90	$ 28.38	$ 681.00
54			Heat Shrink Tubing for #1/0 CU Wire	EA	24	0%	24	0.20	$ 45.00	$ 8.78	$ 4.60	$ 13.38	$ 321.00
55			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	32	0%	32	0.52	$ 45.00	$ 23.40	$ 10.50	$ 33.90	$ 1,084.80
56			Heat Shrink Tubing for #3/0 CU Wire	EA	32	0%	32	0.20	$ 45.00	$ 8.78	$ 5.40	$ 14.18	$ 453.60
			CIRCUIT BREAKER										
57			1P/20A Breaker	EA	22	0%	22	0.42	$ 45.00	$ 18.90	$ 33.00	$ 51.90	$ 1,141.80
58			2P/20A Breaker	EA	3	0%	3	0.45	$ 45.00	$ 20.25	$ 43.18	$ 63.43	$ 190.29
59			2P/30A Breaker	EA	1	0%	1	0.48	$ 45.00	$ 21.60	$ 59.00	$ 80.60	$ 80.60
60			2P/100A Breaker	EA	1	0%	1	0.93	$ 45.00	$ 41.85	$ 216.08	$ 257.93	$ 257.93
61			3P/30A Breaker	EA	1	0%	1	0.55	$ 45.00	$ 24.75	$ 85.00	$ 109.75	$ 109.75
62			3P/350A Breaker	EA	1	0%	1	1.88	$ 45.00	$ 84.60	$ 1,195.00	$ 1,279.60	$ 1,279.60
			PANEL										
63			Panel P: 600A, 480Y/277V, 3PH, 4W, Mains: MLO, 30 Poles, 22KAIC, EATON PRL4X Or Equal, NEMA-1	EA	1	0%	1	8.12	$ 45.00	$ 365.40	$ 5,950.20	$ 6,315.60	$ 6,315.60
64			Mini Power Center: 125A, 25kVA, 1PH, 3W, PRI: 480V/3PH, SEC: 120/240V, EATON, NEMA-3R	EA	1	0%	1	10.40	$ 45.00	$ 468.00	$ 6,839.20	$ 7,307.20	$ 7,307.20
			DEVICES										
65	E4, E5, E6 & E7		1-HP Jockey Pump 8 FLA 240V/1PH	EA	1	0%	1	3.90	$ 45.00	$ 175.50	$ 1,450.00	$ 1,625.50	$ 1,625.50
66			3K Ultra Low Harmonic VFD, NEMA-1	EA	1	0%	1	5.51	$ 45.00	$ 247.95	$ 3,359.99	$ 3,607.94	$ 3,607.94
67			3P/30A SPD-2	EA	1	0%	1	2.60	$ 45.00	$ 117.00	$ 650.00	$ 767.00	$ 767.00
68			50kA SPD-3, 120/240V, 3W+G Standard Feature Package With Surge Counter	EA	1	0%	1	3.25	$ 45.00	$ 146.25	$ 1,150.00	$ 1,296.25	$ 1,296.25
69			Jockey Pump Motor Starter, NEMA-1	EA	1	0%	1	3.25	$ 45.00	$ 146.25	$ 520.00	$ 666.25	$ 666.25
70			Sine Wave Filter, MTE SWG Or Equal, NEMA-3R	EA	1	0%	1	3.90	$ 45.00	$ 175.50	$ 2,400.00	$ 2,575.50	$ 2,575.50
71			200kA SPD1: Surge Protective Device, 277/480V, 4W+G, NEMA-4, EATON	EA	1	0%	1	3.90	$ 45.00	$ 175.50	$ 3,200.00	$ 3,375.50	$ 3,375.50
72			3P/400A ATS: Automatic Transfer Switch, 277/480V, 3PH, 4W, CUMMINS OTEC Or Equal, NEMA-3R	EA	1	0%	1	15.20	$ 45.00	$ 684.00	$ 6,113.87	$ 6,797.87	$ 6,797.87
			DISCONNECT SWITCH										
73			2P/20A Disconnect Switch	EA	4	0%	4	0.65	$ 45.00	$ 29.25	$ 51.20	$ 80.45	$ 321.80

DETAILED BREAKDOWN OF ITEMS

Prepared for: Dunaway 118 Mckinney St. P.O. Box 606.Farmersville, Texas 75442
Project ID: 14092026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY	WASTAGE	QUANTITY W/ WASTAGE	UNIT MANHOUR	HOURLY WAGE	LABOR COST	MAT. COST	UNIT COST	SUB COST
74			3P/400A Fusible Disconnect Switch, Service Entrance Rated & Include Factory installed Neutral Kit, EATON Or Equal, NEMA-3R	EA	1	0%	1	7.10	$ 45.00	$ 319.50	$ 4,450.00	$ 4,769.50	$ 4,769.50
			GROUNDING										
75			3/4"x10' CU Ground Rod In HDPE Ground Inspection Well, ERICO T416B	EA	1	0%	1	3.25	$ 45.00	$ 146.25	$ 207.71	$ 353.96	$ 353.96
76			Exothermic Weld To Rebar In Concrete Foundation	EA	1	0%	1	1.30	$ 45.00	$ 58.50	$ 17.47	$ 75.97	$ 75.97
77			1/4" x 2" Copper Bus Bar With Connections, Length As Required	EA	1	0%	1	2.60	$ 45.00	$ 117.00	$ 185.00	$ 302.00	$ 302.00
78			2/0 CU Grounding Conductor	LF	15	10%	17	0.02	$ 45.00	$ 1.05	$ 5.80	$ 6.85	$ 113.07
79			3/0 CU Grounding Electrode Conductor	LF	45	10%	50	0.03	$ 45.00	$ 1.17	$ 4.20	$ 5.37	$ 265.82
			POWER										
			CONDUIT										
80			3/4" EMT Conduit	LF	297	10%	326	0.05	$ 45.00	$ 2.05	$ 1.85	$ 3.90	$ 1,272.16
			CONDUCTOR										
81			#12 CU THHN/THWN	LF	939	10%	1033	0.01	$ 45.00	$ 0.29	$ 0.23	$ 0.52	$ 536.30
			DEVICE										
82			240V Receptacle	EA	2	0%	2	0.98	$ 45.00	$ 43.88	$ 28.00	$ 71.88	$ 143.75
83			Duplex Receptacle	EA	13	0%	13	0.65	$ 45.00	$ 29.25	$ 14.00	$ 43.25	$ 562.25
84		**Provide and Install by WHECO CONTROLS**	SCADA Panel	EA	1	0%	1	0.00	$ 45.00	$ -	$ -	$ 48,496.00	$ 48,496.00
85			Single Pole Toggle Switch	EA	1	0%	1	0.52	$ 45.00	$ 23.40	$ 9.00	$ 32.40	$ 32.40
			LIGHTING										
			CONDUIT										
86			3/4" EMT Conduit	LF	175	10%	192	0.05	$ 45.00	$ 2.05	$ 1.85	$ 3.90	$ 748.30
			CONDUCTOR										
87			#12 CU THHN/THWN	LF	175	10%	192	0.01	$ 45.00	$ 0.29	$ 0.23	$ 0.52	$ 99.72
			LIGHTING FIXTURES										
88			A: 4' LED Wet Listed Strip LED Light Fixture, COOPER 4APVTLD	EA	8	0%	8	1.30	$ 45.00	$ 58.50	$ 141.38	$ 199.88	$ 1,599.04
89			B: Full Cut Off Wall Mount With Photocontrol, LUMARK AXCS2A-PC1	EA	6	0%	6	1.63	$ 45.00	$ 73.13	$ 166.84	$ 239.97	$ 1,439.79
90			EM: Twin Remote Wet Listed Emergency Head, EVENLITE PRW-LED-2-MV-H-L 12	EA	3	0%	3	1.30	$ 45.00	$ 58.50	$ 185.00	$ 243.50	$ 730.50
91			X-EM: Wet Listed Exit Emergency Comb With Remote Head Capacity, EVENLITE TWLCOM-R-1-G-Y-VW-RC	EA	3	0%	3	1.63	$ 45.00	$ 73.13	$ 245.00	$ 318.13	$ 954.38
			LIGHTING CONTROL										
92			Single Pole Switch	EA	4	0%	4	0.52	$ 45.00	$ 23.40	$ 9.00	$ 32.40	$ 129.60
												SUBTOTAL	**$ 106,569**
			COMMUNICATION										
			LOW VOLTAGE										
			CONDUIT										
93			3/4" EMT Conduit	LF	208	10%	229	0.05	$ 45.00	$ 2.05	$ 1.85	$ 3.90	$ 891.79
94			3/4" RGS Conduit	LF	5	10%	6	0.08	$ 45.00	$ 3.51	$ 3.12	$ 6.63	$ 36.44
			CONDUCTOR										
95			2#18 TSP Cable	LF	26	10%	29	0.01	$ 45.00	$ 0.35	$ 0.38	$ 0.73	$ 21.19
96			#18 CU THHN/THWN	LF	51	10%	56	0.01	$ 45.00	$ 0.23	$ 0.12	$ 0.35	$ 19.83
97			#14 CU THHN/THWN	LF	235	10%	258	0.01	$ 45.00	$ 0.27	$ 0.15	$ 0.42	$ 108.25
98	**E4, E5 & E6**		#12 CU THHN/THWN	LF	80	10%	88	0.01	$ 45.00	$ 0.29	$ 0.23	$ 0.52	$ 45.90
			DEVICES										
99			Alarm Flashing Beacon, LED, 65FPM, 120VAC, RED LENS, EDWARDS 870P-N5	EA	1	0%	1	1.30	$ 45.00	$ 58.50	$ 215.42	$ 273.92	$ 273.92
100			Chlorine Leak Detector	EA	1	0%	1	2.60	$ 45.00	$ 117.00	$ 2,850.00	$ 2,967.00	$ 2,967.00
101			Variable Fan Controller, J&D JDMVI-C	EA	1	0%	1	1.30	$ 45.00	$ 58.50	$ 145.00	$ 203.50	$ 203.50
			MISCELLANEOUS										
102		**For Chlorine Dual Cylinder**	Junction Box, NEMA-4X	EA	2	0%	2	1.30	$ 45.00	$ 58.50	$ 230.59	$ 289.09	$ 578.18
												SUBTOTAL	**$ 5,146**
			UTILITIES										
			DISTRIBUTION										
			CONDUIT										
103			1" PVC SCH 80 Conduit With Existing Conductors	LF	176	10%	193	0.05	$ 45.00	$ 2.05	$ 0.72	$ 2.76	$ 534.27
104			2" PVC SCH 80 Conduit	LF	648	10%	713	0.06	$ 45.00	$ 2.63	$ 1.45	$ 4.08	$ 2,913.51
105			3" PVC SCH 80 Conduit	LF	117	10%	128	0.08	$ 45.00	$ 3.51	$ 2.60	$ 6.11	$ 783.23
106			3" PVC SCH 80 Conduit With Pull String	LF	18	10%	20	0.08	$ 45.00	$ 3.51	$ 2.60	$ 6.11	$ 119.86
107			2" PVC Coated RGS Conduit	LF	12	10%	13	0.30	$ 45.00	$ 13.50	$ 18.29	$ 31.79	$ 427.32
108			2" PVC Coated RSG Conduit	LF	11	10%	12	0.30	$ 45.00	$ 13.50	$ 18.29	$ 31.79	$ 369.27
109			3" PVC Coated RGS Conduit	LF	15	10%	17	0.34	$ 45.00	$ 15.30	$ 34.97	$ 50.27	$ 837.75
110		**Spare**	3" PVC SCH 80 Conduit With Pullcord	LF	349	10%	384	0.08	$ 45.00	$ 3.51	$ 2.60	$ 6.11	$ 2,347.53
111			3" PVC Coated RGS Conduit With Pullcord	LF	10	10%	11	0.35	$ 45.00	$ 15.75	$ 35.21	$ 50.96	$ 579.06
			CONDUCTOR										
112			#3 CU THHN/THWN	LF	171	10%	188	0.02	$ 45.00	$ 0.70	$ 1.65	$ 2.35	$ 443.01
113			#1/0 CU THHN/THWN	LF	119	10%	130	0.02	$ 45.00	$ 0.99	$ 3.36	$ 4.35	$ 567.61
114			#3/0 CU THHN/THWN	LF	3054	10%	3359	0.03	$ 45.00	$ 1.23	$ 5.22	$ 6.45	$ 21,671.79
			LUGS										
115			Compression Lug CU With 1-Hole , #3 CU Wire	EA	8	0%	8	0.33	$ 45.00	$ 14.63	$ 5.10	$ 19.73	$ 157.80
116			Heat Shrink Tubing for #3 CU Wire	EA	8	0%	8	0.16	$ 45.00	$ 7.02	$ 3.40	$ 10.42	$ 83.36
117			Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	12	0%	12	0.46	$ 45.00	$ 20.48	$ 7.90	$ 28.38	$ 340.50
118			Heat Shrink Tubing for #1/0 CU Wire	EA	12	0%	12	0.20	$ 45.00	$ 8.78	$ 4.60	$ 13.38	$ 160.50
119			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	32	0%	32	0.52	$ 45.00	$ 23.40	$ 10.50	$ 33.90	$ 1,084.80
120			Heat Shrink Tubing for #3/0 CU Wire	EA	32	0%	32	0.20	$ 45.00	$ 8.78	$ 5.40	$ 14.18	$ 453.60
			DEVICES										
121			24"x24"x24" Handhole, QUAZITE, PG Style, Tier 8 Box With Cover	EA	1	0%	1	7.80	$ 45.00	$ 351.00	$ 935.00	$ 1,286.00	$ 1,286.00
122			250KW Diesel Generator, CUMMINS MODEL DQDAA SOUND ATTENUATED LEVEL 2 Enclosure	EA	1	0%	1	85.00	$ 45.00	$ 3,825.00	$ 57,000.00	$ 60,825.00	$ 60,825.00
			GROUNDING										
123			3/0 Bare CU Grounding Conductor	LF	179	10%	197	0.03	$ 45.00	$ 1.17	$ 4.20	$ 5.37	$ 1,055.34
124			3/4"x10' CU Ground Rod In HDPE Ground Inspection Well, ERICO T416B	EA	2	0%	2	3.25	$ 45.00	$ 146.25	$ 207.71	$ 353.96	$ 707.92
125			3/4"x10' CU Ground Rod	EA	3	0%	3	1.95	$ 45.00	$ 87.75	$ 40.71	$ 128.46	$ 385.38
126			Exothermic Weld Ufer Ground Bond	EA	1	0%	1	1.30	$ 45.00	$ 58.50	$ 17.47	$ 75.97	$ 75.97
			POWER										
	E2, E3 & E7		**CONDUIT**										
127			1" EMT Conduit	LF	25	10%	28	0.06	$ 45.00	$ 2.63	$ 2.95	$ 5.58	$ 154.38
128			1" PVC SCH 80 Conduit	LF	36	10%	39	0.05	$ 45.00	$ 2.05	$ 0.72	$ 2.76	$ 108.43
			CONDUCTOR										
129			#12 CU THHN/THWN	LF	182	10%	201	0.01	$ 45.00	$ 0.29	$ 0.23	$ 0.52	$ 104.24
			DEVICE										
130			Duplex Receptacle	EA	1	0%	1	0.65	$ 45.00	$ 29.25	$ 14.00	$ 43.25	$ 43.25
			LOW VOLTAGE										
			CONDUIT										
131			1" EMT Conduit	LF	36	10%	40	0.06	$ 45.00	$ 2.63	$ 2.95	$ 5.58	$ 221.56
132			1" PVC SCH 80 Conduit	LF	91	10%	100	0.05	$ 45.00	$ 2.05	$ 0.72	$ 2.76	$ 276.86
133			1" PVC Coated RGS Conduit	LF	5	10%	6	0.13	$ 45.00	$ 5.85	$ 19.50	$ 25.35	$ 140.82
			CONDUCTOR										
134			#18 CU THHN/THWN	LF	37	10%	41	0.01	$ 45.00	$ 0.23	$ 0.12	$ 0.35	$ 14.53
135			#14 CU THHN/THWN	LF	672	10%	739	0.01	$ 45.00	$ 0.27	$ 0.15	$ 0.42	$ 309.54
			MISCELLANEOUS										
			DUCTBANK										
136			Duct bank (E2-A): 3-Way Duct Bank With (3) 3" PVC SCH 80 Conduits	LF	310	10%	341	0.16	$ 45.00	$ 7.02	$ 23.00	$ 30.02	$ 10,240.78
137			Duct bank (E3-B): 8-Way Duct Bank With (3) 3", (5) 1" PVC SCH 80 Conduits	LF	39	10%	43	0.39	$ 45.00	$ 17.55	$ 44.81	$ 62.36	$ 2,669.76
138			Duct bank (E3-C): 6-Way Duct Bank With (1) 3", (2) 2", & (3) 1" PVC SCH 80 Conduits	LF	16	10%	17	0.31	$ 45.00	$ 14.04	$ 38.00	$ 52.04	$ 898.16
139			Duct bank (E3-D): 4-Way Duct Bank With (4) 1" PVC SCH 80 Conduits	LF	44	10%	48	0.18	$ 45.00	$ 8.19	$ 16.90	$ 25.09	$ 1,212.98
			TRENCHING & BACKFILLING										
140			Excavation & Backfilling (2' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	356	0%	356	0.06	$ 45.00	$ 2.63	$ -	$ 2.63	$ 938.17
141		**For Duct bank (E2-A)**	Excavation & Backfilling (4' Deep x 1.3' Wide Trench) Including All Labor and Material/Equipment	CFT	1613	0%	1613	0.06	$ 45.00	$ 2.63	$ -	$ 2.63	$ 4,245.23
142		**For Duct bank (E3-B)**	Excavation & Backfilling (4' Deep x 3' Wide Trench) Including All Labor and Material/Equipment	CFT	467	0%	467	0.06	$ 45.00	$ 2.63	$ -	$ 2.63	$ 1,229.48
143		**For Duct bank (E3-C)**	Excavation & Backfilling (4' Deep x 2.3' Wide Trench) Including All Labor and Material/Equipment	CFT	144	0%	144	0.06	$ 45.00	$ 2.63	$ -	$ 2.63	$ 380.00
144		**For Duct bank (E3-D)**	Excavation & Backfilling (4' Deep x 1.7' Wide Trench) Including All Labor and Material/Equipment	CFT	299	0%	299	0.06	$ 45.00	$ 2.63	$ -	$ 2.63	$ 786.75
												SUBTOTAL	**$ 122,185**

	PROJECTED COST	**$269,551**
OVERHEAD AND PROFIT	**15%**	**$40,433**
INSURANCE	**3%**	**$8,087**
LABOR BURDEN	**50%**	**$19,851**
CONTINGENCY	**5%**	**$13,478**
TAX	**8%**	**$12,020**
SUGGESTED BID		**$363,418**

Notes:

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

Phone: +1 708-381-0900

MATERIAL LIST

Prepared for: Dunaway 118 Mckinney St. P.O. Box 606.Farmersville, Texas 75442
Project ID: 14092026
Scope: Electrical

ELECTRICAL ESTIMATION
+1 708-381-0900

Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
			ELECTRICAL		
			DISTRIBUTION		
			CONDUIT (CUT LENGTH = 10 LF)		
1			3/4" EMT Conduit	EA	3
2			1" EMT Conduit	EA	3
3			1-1/4" EMT Conduit	EA	1
4			2" EMT Conduit	EA	3
5			3/4" RGS Conduit	EA	1
6			1" RGS Conduit	EA	2
7			2" RGS Conduit	EA	2
			CONDUCTOR (1 ROLL = 200 LF)		
8			#12 CU THHN/THWN	ROLL	1
9			#10 CU THHN/THWN	ROLL	1
10			#8 CU THHN/THWN	ROLL	1
11			#3 CU THHN/THWN	ROLL	1
12			#1 CU THHN/THWN	ROLL	1
13			#1/0 CU THHN/THWN	ROLL	1
14			#3/0 CU THHN/THWN	ROLL	1
			LUGS		
15			Compression Lug CU With 1-Hole , #8 CU Wire	EA	2
16			Heat Shrink Tubing for #8 CU Wire	EA	2
17			Compression Lug CU With 1-Hole , #3 CU Wire	EA	16
18			Heat Shrink Tubing for #3 CU Wire	EA	16
19			Compression Lug CU With 1-Hole , #1 CU Wire	EA	4
20			Heat Shrink Tubing for #1 CU Wire	EA	4
21			Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	24
22			Heat Shrink Tubing for #1/0 CU Wire	EA	24
23			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	32
24			Heat Shrink Tubing for #3/0 CU Wire	EA	32
			CIRCUIT BREAKER		
25			1P/20A Breaker	EA	22
26			2P/20A Breaker	EA	3
27			2P/30A Breaker	EA	1
28			2P/100A Breaker	EA	1
29			3P/30A Breaker	EA	1
30			3P/350A Breaker	EA	1
			PANEL		
31			Panel P: 600A, 480Y/277V, 3PH, 4W, Mains: MLO, 30 Poles, 22KAIC, EATON	EA	1
32			Mini Power Center: 125A, 25kVA, 1PH, 3W, PRI: 480V/3PH, SEC: 120/240V,	EA	1
			DEVICES		
33	**E4, E5, E6 & E7**		1-hp Jockey Pump 8 FLA 240V/1PH	EA	1
34			3K Ultra Low Harmonic VFD, NEMA-1	EA	1
35			3P/30A SPD-2	EA	1
36			50kA SPD-3, 120/240V, 3W+G Standard Feature Package With Surge Counter	EA	1
37			Jockey Pump Motor Starter, NEMA-1	EA	1
38			Sine Wave Filter, MTE SWG Or Equal, NEMA-3R	EA	1
39			200kA SPD1: Surge Protective Device, 277/480V, 4W+G, NEMA-4, EATON	EA	1
40			3P/400A ATS: Automatic Transfer Switch, 277/480V, 3PH, 4W, CUMMINS OT	EA	1
			DISCONNECT SWITCH		
41			2P/20A Disconnect Switch	EA	4
42			3P/400A Fusible Disconnect Switch, Service Entrance Rated & Include Factory	EA	1
			GROUNDING		
43			3/4"x10' CU Ground Rod In HDPE Ground Inspection Well, ERICO T416B	EA	1
44			Exothermic Weld To Rebar In Concrete Foundation	EA	1

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SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
45			1/4" x 2" Copper Bus Bar With Connections, Length As Required	EA	1
46			2/0 CU Grounding Conductor (1 ROLL = 200 LF)	ROLL	1
47			3/0 CU Grounding Electrode Conductor (1 ROLL = 200 LF)	ROLL	1
			POWER		
			CONDUIT (CUT LENGTH = 10 LF)		
48			3/4" EMT Conduit	EA	30
			CONDUCTOR (1 ROLL = 200 LF)		
49			#12 CU THHN/THWN	ROLL	5
			DEVICE		
50			240V Receptacle	EA	2
51			Duplex Receptacle	EA	13
52		**Provide and Install by WHECO CONTROLS**	SCADA Panel	EA	1
53			Single Pole Toggle Switch	EA	1
			LIGHTING		
			CONDUIT (CUT LENGTH = 10 LF)		
54			3/4" EMT Conduit	EA	17
			CONDUCTOR (1 ROLL = 200 LF)		
55			#12 CU THHN/THWN	ROLL	1
			LIGHTING FIXTURES		
56			A: 4' LED Wet Listed Strip LED Light Fixture, COOPER 4APVTLD	EA	8
57			B: Full Cut Off Wall Mount With Photocontrol, LUMARK AXCS2A-PC1	EA	6
58			EM: Twin Remote Wet Listed Emergency Head, EVENLITE PRW-LED-2-MV-H	EA	3
59			X-EM: Wet Listed Exit Emergency Comb With Remote Head Capacity, EVE	EA	3
			LIGHTING CONTROL		
60			Single Pole Switch	EA	4
			COMMUNICATION		
			LOW VOLTAGE		
			CONDUIT (CUT LENGTH = 10 LF)		
61			3/4" EMT Conduit	EA	21
62			3/4" RGS Conduit	EA	1
			CONDUCTOR (1 ROLL = 200 LF)		
63			2#18 TSP Cable	ROLL	1
64			#18 CU THHN/THWN	ROLL	1
65	**E4, E5 & E6**		#14 CU THHN/THWN	ROLL	1
66			#12 CU THHN/THWN	ROLL	1
			DEVICES		
67			Alarm Flashing Beacon, LED, 65FPM, 120VAC, RED LENS, EDWARDS 870P-	EA	1
68			Chlorine Leak Detector	EA	1
69			Variable Fan Controller, J&D JDMVI-C	EA	1
			MISCELLANEOUS		
70		**For Chlorine Dual Cylinder**	Junction Box, NEMA-4X	EA	2
			UTILITIES		
			DISTRIBUTION		
			CONDUIT (CUT LENGTH = 10 LF)		
71			1" PVC SCH 80 Conduit With Existing Conductors	EA	18
72			2" PVC SCH 80 Conduit	EA	65
73			3" PVC SCH 80 Conduit	EA	12
74			3" PVC SCH 80 Conduit With Pull String	EA	2
75			2" PVC Coated RGS Conduit	EA	1
76			2" PVC Coated RSG Conduit	EA	1
77			3" PVC Coated RGS Conduit	EA	2
78		**Spare**	3" PVC SCH 80 Conduit With Pullcord	EA	35
79			3" PVC Coated RGS Conduit With Pullcord	EA	1
			CONDUCTOR (1 ROLL = 200 LF)		
80			#3 CU THHN/THWN	ROLL	1
81			#1/0 CU THHN/THWN	ROLL	1
82			#3/0 CU THHN/THWN	ROLL	15
			LUGS		
83			Compression Lug CU With 1-Hole , #3 CU Wire	EA	8
84			Heat Shrink Tubing for #3 CU Wire	EA	8

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Date: 28-Sep-26

SR #	Drawing #	Detail #	DESCRIPTION	UNIT	QUANTITY
85			Compression Lug CU With 1-Hole , #1/0 CU Wire	EA	12
86			Heat Shrink Tubing for #1/0 CU Wire	EA	12
87			Compression Lug CU With 1-Hole , #3/0 CU Wire	EA	32
88			Heat Shrink Tubing for #3/0 CU Wire	EA	32
			DEVICES		
89			24"x24"x24" Handhole, QUAZITE, PG Style, Tier 8 Box With Cover	EA	1
90			250KW Diesel Generator, CUMMINS MODEL DQDAA SOUND ATTENUATE	EA	1
			GROUNDING		
91			3/0 Bare CU Grounding Conductor (1 ROLL = 200 LF)	ROLL	1
92			3/4"x10' CU Ground Rod In HDPE Ground Inspection Well, ERICO T416B	EA	2
93			3/4"x10' CU Ground Rod	EA	3
94			Exothermic Weld Ufer Ground Bond	EA	1
			POWER		
	E2, E3 & E7		**CONDUIT (CUT LENGTH = 10 LF)**		
95			1" EMT Conduit Conduit	EA	3
96			1" PVC SCH 80 Conduit	EA	4
			CONDUCTOR (1 ROLL = 200 LF)		
97			#12 CU THHN/THWN	ROLL	1
			DEVICE		
98			Duplex Receptacle	EA	1
			LOW VOLTAGE		
			CONDUIT (CUT LENGTH = 10 LF)		
99			1" EMT Conduit	EA	4
100			1" PVC SCH 80 Conduit	EA	9
101			1" PVC Coated RGS Conduit	EA	1
			CONDUCTOR (1 ROLL = 200 LF)		
102			#18 CU THHN/THWN	ROLL	1
103			#14 CU THHN/THWN	ROLL	3
			MISCELLANEOUS		
			DUCTBANK		
104			Ductbank (E2-A): 3-Way Duct Bank With (3) 3" PVC SCH 80 Conduits	LF	310
105			Ductbank (E3-B): 8-Way Duct Bank With (3) 3", (5) 1" PVC SCH 80 Conduits	LF	39
106			Ductbank (E3-C): 6-Way Duct Bank With (1) 3", (2) 2", & (3) 1" PVC SCH 80 Co	LF	16
107			Ductbank (E3-D): 4-Way Duct Bank With (4) 1" PVC SCH 80 Conduits	LF	44
			TRENCHING & BACKFILLING		
108			Excavation & Backfilling (2' Deep x 1' Wide Trench) Including All Labor and Material/Equipment	CFT	356
109		**For Ductbank (E2-A)**	Excavation & Backfilling (4' Deep x 1.3' Wide Trench) Including All Labor and Material/Equipment	CFT	1613
110		**For Ductbank (E3-B)**	Excavation & Backfilling (4' Deep x 3' Wide Trench) Including All Labor and Material/Equipment	CFT	467
111		**For Ductbank (E3-C)**	Excavation & Backfilling (4' Deep x 2.3' Wide Trench) Including All Labor and Material/Equipment	CFT	144
112		**For Ductbank (E3-D)**	Excavation & Backfilling (4' Deep x 1.7' Wide Trench) Including All Labor and Material/Equipment	CFT	299