 TORUS	· Owner ELECTRICAL EQUIPMENT LIST			Document No.	ELE-LST-003	
				Revision / Date	A · September 29, 2026	
				Issue purpose	Issued for Review	
ELECTRICAL · ELECTRICAL EQUIPMENT LIST						
Rev.	Date	Revision description	Prepared	Reviewed	Approved	
A	2026-09-29	Issued for Review				

NOTES

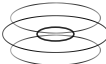
1. The list covers the electrical equipment in the electrical and cathodic protection scope. Location is in plot coordinates, in feet, per MEC-DWG-001.
2. Area classification is from ELE-RPT-001, Hazardous Area Classification, evaluated 3 ft above grade.
3. Ratings of vendor-supplied equipment are typical until vendor data is received (HOLD H-15).
4. Local disconnect tags are DS- followed by the tag of the load they isolate, for example DS-SDV-101.

EQUIPMENT LIST

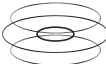
Table 1-1: Electrical Equipment

Tag	Description	Location (X, Y)	Rating	Voltage	Enclosure	Area class	Scope	Reference	Notes
XF-101	Pad-mount distribution transformer, oil-filled, loop feed, bay-o-net fusing	(240, 8)	75 kVA, Z 1.5-2.5 %	12.47 kV delta - 480Y/277 V	Pad-mount, tamper resistant	Unclassified	Utility furnished and owned	ELE-CAL-001, HOLD H-10	Pad, bollards and secondary conduits by Owner
UM-101	Utility revenue meter base, self-contained	(228, 26)	200 A class	480Y/277 V	NEMA 3R	Unclassified	Utility / Owner	HOLD H-10	
MCB-101	Service-entrance circuit breaker enclosure with SPD-101 Type 1	(228, 23)	125 A 3P, 22 kA	480Y/277 V	NEMA 3R	Unclassified	Owner	ELE-CAL-004, DWG-001	Main bonding jumper, GEC
ATS-101	Automatic transfer switch, open transition, UL 1008	(205, 20)	150 A 3P, 22 kA withstand	480Y/277 V	NEMA 1	Unclassified	Owner	ELE-CAL-002	
G-101	Standby generator, natural gas, sound-attenuated weatherproof enclosure, electronic-trip breaker (instantaneous 2 x In), block heater, battery charger	(185, 22)	60 kW / 75 kVA standby	480Y/277 V	Outdoor enclosure	Unclassified	Owner	ELE-CAL-002	NSPS JJJJ certified
DP-101	Distribution panelboard, two sections A/B, through-feed	(207, 20)	225 A bus MLO, 84 ckt (2 x 42), 22 kA	480Y/277 V	NEMA 1	Unclassified	Owner	ELE-LST-002	
XF-102	Dry-type transformer, 150 C rise, K-1, wall/floor mounted	(211, 20)	15 kVA, Z 3.5 %	480 delta -208Y/120 V	NEMA 2 ventilated	Unclassified	Owner	ELE-CAL-004	
LP-101	Lighting and power panelboard	(213, 20)	125 A bus, 60 A main, 42 ckt, 10 kA	208Y/120 V	NEMA 1	Unclassified	Owner	ELE-LST-002	
LC-101	Lighting contactor, electrically held, with HOA switch	(214, 20)	4-pole 30 A	277 V coil / contacts	NEMA 1	Unclassified	Owner	ELE-CAL-007	
PC-101	Photocell, twist-lock, B-102 roof north face	(215, 31)	1,000 W	277 V	Outdoor	Unclassified	Owner	ELE-CAL-007	
UPS-101	On-line double-conversion UPS with static bypass and external maintenance bypass switch	(223, 20)	1.5 kVA	120 V in / 120 V out	Tower	Unclassified	Owner	ELE-CAL-003	
UBC-101	UPS external battery cabinet, VRLA	(225, 20)	24 x 2 V, 200 Ah (48 VDC)	48 VDC	Steel cabinet	Unclassified	Owner	ELE-CAL-003	
UP-101	UPS distribution panel	(226, 19)	20 A main, 12 ckt, 10 kA	120 V 1-ph	NEMA 1	Unclassified	Owner	ELE-LST-002	
BC-101A	Battery charger, SCR/switch-mode, temperature compensated, float/boost, alarms	(219, 30)	50 A	208 V 1-ph in / 24 VDC out	NEMA 1 wall	Unclassified	Owner	ELE-CAL-003	
BC-101B	Battery charger, as BC-101A (redundant, load sharing)	(221, 30)	50 A	208 V 1-ph in / 24 VDC out	NEMA 1 wall	Unclassified	Owner	ELE-CAL-003	
BT-101	Station battery, VRLA 2 V cells, 2-tier seismic rack, battery disconnect	(226, 24)	12 cells, 400 Ah (8 h)	24 VDC	Open rack	Unclassified	Owner	ELE-CAL-003	Spill kit, PPE station



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Tag	Description	Location (X, Y)	Rating	Voltage	Enclosure	Area class	Scope	Reference	Notes	
DCP-101	24 VDC distribution panel, DC-rated breakers, ground detector	(222, 31)	125 A bus, 18 pos, 10 kA	24 VDC	NEMA 1	Unclassified	Owner	ELE-LST-002		
HCP-161	E-161 heater contactor and temperature control panel (restart TDR)	(203, 24)	15 A 3P	480 V	NEMA 1	Unclassified	E-161 vendor	ELE-CAL-002	E-161 5 kW	
RECT-101	CP rectifier, air-cooled, meters, interrupter-ready, remote monitoring	(213, 18)	24 V / 8 A DC	120 V 1-ph in	NEMA 3R	Unclassified	Owner (CP)	CP-CAL-001		
SPD-101/102/103	Surge protective devices at MCB-101 (Type 1), DP-101, LP-101 (Type 2)	(228, 23)	SPD-101 100 kA/phase, others 50 kA	480 / 208 V	NEMA 1 / 3R	Unclassified	Owner	ELE-CAL-005		
AC-102A	Wall-mount AC with electric heat, B-102 east wall (lead), outside air damper, GD-207 trip	(228, 29)	2.0 ton, 5 kW heat	460 V 3-ph	Outdoor unit	Unclassified	Building vendor	ELE-CAL-001 Sec 11		
AC-102B	Wall-mount AC with electric heat, B-102 west wall (lag)	(202, 25)	2.0 ton, 5 kW heat	460 V 3-ph	Outdoor unit	Unclassified	Building vendor	ELE-CAL-001 Sec 11		
UH-101	B-101 electric unit heater, Class I Div 2 Group D T3	(118, 118)	7.5 kW	480 V 3-ph	Class I Div 2	Div 2	Shelter vendor	ELE-CAL-001		
AC-101	B-101 wall-mount AC, Class I Div 2 package	(118, 118)	1.5 ton	208 V 1-ph	Class I Div 2	Div 2	Shelter vendor	ELE-CAL-001		
EF-101A/B	B-101 exhaust fans duty/standby with airflow switch FSL-208	(118, 118)	250 cfm, 0.5 hp each	480 V 3-ph	Class I Div 2 motor	Div 2	Shelter vendor	ELE-RPT-001		
HT-1080 / HT-1139	Sample line heat tracing, two circuits, self-regulating 15 W/ft T3, each with controller and GFEP; SP-141 heated regulator on HT-1080	(104, 116)	340 W + 240 W	120 V	Class I Div 2	Div 2	Owner / MEA	MEA-CAL-004		
ANT-201	50 ft engineered breakpoint monopole (breakpoint 30 ft, fall radius 20 ft), cellular and 900 MHz antennas, base enclosure on UP-101; own ground ring bonded to station grounding; coax in RW conduit with arrestors at B-102 entry	(150, 22)	50 ft	-	-	Unclassified	Owner (instrumentation and structural)	INS-RPT-002, ELE-CAL-005/006		
E-161	Fuel gas electric preheater, explosion-proof, high-limit, TIC-161A 105 F	(91, 52)	5 kW	480 V 3-ph	Class I Div 2 T3	Div 2	FG-101 skid vendor	Process	Rating by process	
RCP-101	Receptacle 30 A 480 V 3-ph + G, interlocked, Class I Div 2	(108, 86)	30 A	480 V	Class I Div 2	Div 2	Owner	ELE-LST-002		
REC-EXT-1..3	Exterior GFCI duplex receptacles, factory sealed, Class I Div 2 (4 total)	(86, 87)	20 A	120 V	Class I Div 2	Div 2	Owner	ELE-LST-002		
GO-101A/B	Swing gate operators, main vehicle gate (one per leaf), with safety edges and loop detectors	(250, 62)	0.5 hp each	480 V 3-ph	NEMA 4X	Unclassified	Fence vendor	ELE-CAL-001		
JB-110D	24 VDC terminal box at SK-110 east end, fused terminals	(108, 86)	12x12x6 in	24 VDC	Ex e or Div 2 NEMA 4X	Div 2	Owner	ELE-LST-001		
JB-140D	24 VDC terminal box at B-101, fused terminals	(112, 113)	12x12x6 in	24 VDC	Ex e or Div 2 NEMA 4X	Div 2	Owner	ELE-LST-001		
JB-110L	SK-110 canopy lighting junction box	(84, 97)	8x8x4 in	277 V	Class I Div 2	Div 2	Owner	ELE-DWG-005		
LP-P1..P8	Lighting poles 25 ft, steel, galvanized, with 150 W LED Class I Div 2 luminaires (15 heads)	(128, 100)	25 ft MH	277 V	Class I Div 2 luminaires	Unclassified	Owner	ELE-CAL-007		
DS-SDV-101	Local disconnect switch for SDV-101 (430.102, within sight), lockable	(66, 28)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001		
DS-SDV-102	Local disconnect switch for SDV-102 (430.102, within sight), lockable	(185, 88)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001		
DS-SDV-103	Local disconnect switch for SDV-103 (430.102, within sight), lockable	(212, 88)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001		
DS-SDV-106	Local disconnect switch for SDV-106 (430.102, within sight), lockable	(88, 32)	30 A 2P	120 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001		
DS-SDV-165	Local disconnect switch for SDV-165 (430.102, within sight), lockable	(97, 51)	30 A 2P	120 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001		
DS-MOV-111	Local disconnect switch for MOV-111 (430.102, within sight), lockable	(84, 87)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001		
DS-MOV-112	Local disconnect switch for MOV-112 (430.102, within sight), lockable	(84, 87)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001		
DS-MOV-121	Local disconnect switch for MOV-121 (430.102, within sight), lockable	(84, 87)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001		



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DS-MOV-122	Local disconnect switch for MOV-122 (430.102, within sight), lockable	(84, 87)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001	
DS-MOV-115	Local disconnect switch for MOV-115 (430.102, within sight), lockable	(84, 87)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001	
DS-FCV-131	Local disconnect switch for FCV-131 (430.102, within sight), lockable	(150, 84)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001	
DS-FCV-132	Local disconnect switch for FCV-132 (430.102, within sight), lockable	(150, 84)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001	
DS-UH-101	Local disconnect switch for UH-101 (430.102, within sight), lockable	(111, 115)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001	
DS-EF-101A	Local disconnect switch for EF-101A (430.102, within sight), lockable	(111, 115)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001	
DS-EF-101B	Local disconnect switch for EF-101B (430.102, within sight), lockable	(111, 115)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001	
DS-AC-101	Local disconnect switch for AC-101 (430.102, within sight), lockable	(111, 115)	30 A 2P	208 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001	
DS-E-161	Local disconnect switch for E-161 (430.102, within sight), lockable	(97, 51)	30 A 3P	480 V	Ex d (Class I Div 1/2) non-fused	Div 2	Owner	ELE-LST-001	
DS-GO-101A	Local disconnect switch for GO-101A (430.102, within sight), lockable	(246, 48)	30 A 3P	480 V	NEMA 4X non-fused	Unclassified	Owner	ELE-LST-001	
DS-GO-101B	Local disconnect switch for GO-101B (430.102, within sight), lockable	(246, 76)	30 A 3P	480 V	NEMA 4X non-fused	Unclassified	Owner	ELE-LST-001	
DS-CP-150	Local disconnect switch for CP-150 (430.102, within sight), lockable	(214, 132)	30 A 2P	120 V	NEMA 4X non-fused	Unclassified	Owner	ELE-LST-001	