GENERAL NOTES

A. NEW PANEL BOARD SHALL BE FULLY RATED, SERIES RATED PANELS SHALL NOT BE PERMITTED.

B. NEW PANEL BOARD SHALL BE COPPER BUS, ALUMINUM SHALL NOT BE PERMITTED.

C. ALUMINUM BUS WITHIN PANELS SHALL NOT BE PERMITTED.

D. PANEL BOARDS EXCEEDING (42) CIRCUITS SHALL BE FROM A SINGLE BUS CONFIGURATION, MULTIPLE BUS CONFIGURATIONS SHALL NOT BE PERMITTED.

E. ALL ELECTRICAL PANELS SHALL HAVE VISIBLE TRIP INDICATORS.

1

PANEL "IT"

EMERGENCY LIFE SAFETY BRANCH

NEW PANEL

PANEL INFORMATION

MAIN TYPE	100A MCB		
VOLTAGE	120/ 208	VOLTS	3PH-4W
MOUNTING	SURFACE	MOUNT	
AIC RATING	10000	AIC	
ENCLOSURE TYPE	NEMA-1		

PANEL RATING & FEEDER

PANEL AMPACITY:		100 AMPS
PHASE CONDUCTORS:	(3)	#3 THWN
NEUTRAL	(1)	#8 THWN
# OF SETS		(1 SET)
SOURCE	"T-IT"	

				LOAD IN VOLT AMPS (VA)						LOAD IN VOLT AMPS (VA)								
CKT	DESCRIPTION	CB AMPS	WIRE SIZE	LTG (125%)	RECEPT.	KITCHEN	HVAC	MISC	PHASE	MISC	HVAC	KITCHEN	RECEPT.	LTG (125%)	WIRE SIZE	CB AMPS	DESCRIPTON	CKT
1								1500	A	1000					#12	20	RACK UPS	2
3	RACK PDU (POWER DISTRIBUTION UNIT)	30	#10					1500	B	1000								4
5								1500	C	1000					#12	20	RACK UPS	6
7								1500	A	1000								8
9	RACK PDU (POWER DISTRIBUTION UNIT)	30	#10					1500	B	1000					#12	20	RACK UPS	10
11								1500	C	1000								12
13								1500	A						#12	20	SPARE	14
15	RACK PDU (POWER DISTRIBUTION UNIT)	30	#10					1500	B						#12	20	SPARE	16
17								1500	C						#12	20	SPARE	18
19	SPARE	20	#12						A						#12	20	SPARE	20
21	SPARE	20	#12						B						#12	20	SPARE	22
23	SPARE	20	#12						C						#12	20	SPARE	24
TOTAL LOADS				0	0	0	0	13500		6000	0	0	0	0			TOTAL LOADS	

PANEL NOTES

LOAD CALCULATION (NEC 2023 – ARTICLE 220)

LOAD TYPE	LOAD (kVA)	DEMAND %	DEMAND LOAD	
LIGHTING	0.00	1.25	0.0	kW
RECEPTACLES	0.00	1.00	0.0	kW
RECEPTACLES > 10000	0.00	0.50		
KITCHEN EQUIPMENT	0.00	0.65	0.0	kW
MISC.	19.50	1.00	19.5	kW
HVAC	0.00	1.00	0.0	kW
TOTAL kW DEMAND			19.5	kW
TOTAL DEMAND AMPS	@ 100%		54.13	AMPS

1 PANEL SCHEDULE 'IT' (EMERGENCY LIFE SAFETY BRANCH - 120/208 VOLTS)
SCALE NOT TO SCALE

Revisions:	Date:
1 ADDENDUM 3	01-24-2025

CONSULTANT

ARCHITECT/ENGINEER OF RECORD

paradigm
Architecture | Engineering | Design-Build
9000 Wessex Place, Louisville, KY 40222
www.paradigmusa.com

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PROFESSIONAL ENGINEER
1/24/2025

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title: PANEL SCHEDULES	Phase: 100% CONSTRUCTION DOCUMENTS	Project Title: SIOUX FALLS BOILER PLANT	Project Number: 438-22-900
			Building Number: 12
Approved: Project Director	FULLY SPRINKLERED	Location: VAMC-Sioux Falls: 2501 W 22nd St, Sioux Falls, SD 57105	Drawing Number: EP603
		Issue Date: 06/25/2024 · Checked: WLM · Drawn: KMB	

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