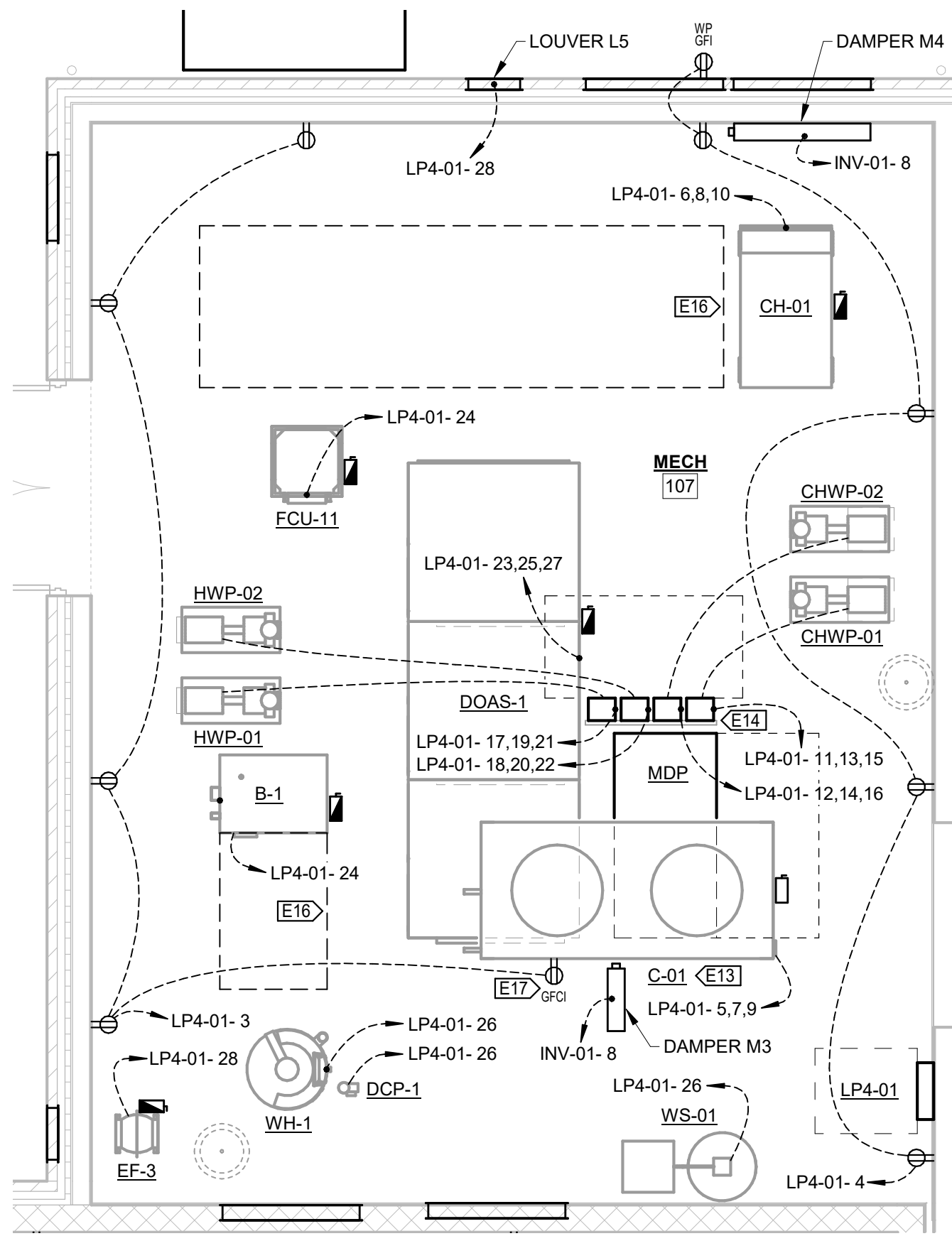
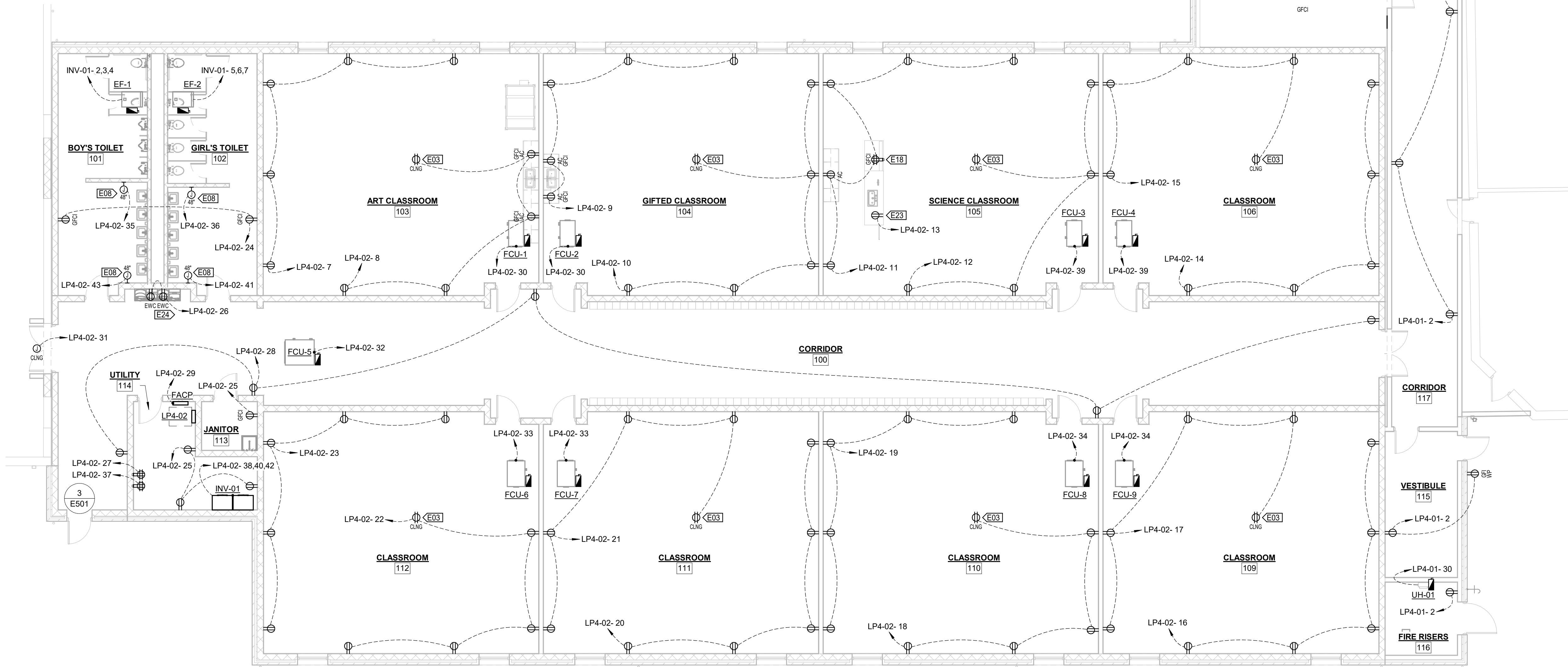




2 ENLARGED MECH RM POWER PLAN
1/4" = 1'-0"



1 POWER PLAN
1/8" = 1'-0"

KEYNOTE LEGEND	
VALUE	DESCRIPTION
E03	INSTALL RECEPTACLE IN CEILING TILE FOR POWER TO PROJECTOR. COORDINATE LOCATION WITH OWNER.
E08	JUNCTION BOX FOR ELECTRIC HAND DRYER. SEE ELECTRIC HAND DRYER SCHEDULE.
E13	CONDENSER IS MOUNTED ON ROOF ABOVE MECHANICAL ROOM.
E14	PROVIDE (1) VARIABLE-SPEED CONTROLLER WITH INTEGRAL SAFETY SWITCH PER HYDRONIC PUMP. PROVIDE SEPARATE SAFETY SWITCH IF NOT AVAILABLE AS INTEGRAL COMPONENT OF CONTROLLER. MOUNT HYDRONIC PUMP-VARIABLE-SPEED CONTROLLERS AND SAFETY SWITCHES ON STRUT CHANNEL FRAME. DO NOT EXTEND STRUT CHANNEL FRAME INTO THE SPACE DIRECTLY BELOW THE DOAS-1 UNIT.
E15	SEE CIVIL SITE UTILITY PLAN FOR ADDITIONAL DETAILS ON EXTERIOR ELECTRICAL ITEMS.
E16	SPACE RESERVED FOR FUTURE EQUIPMENT.
E17	CONVENIENCE RECEPTACLE FOR CONDENSER.
E18	COORDINATE INSTALLATION OF RECEPTACLE IN BOX ON TOP OF COUNTER WITH MANUFACTURER OF INSTRUCTOR TABLE.
E23	COORDINATE INSTALLATION OF RECEPTACLE UNDER COUNTER FOR FUTURE DISHWASHER (BY OTHERS) WITH MANUFACTURER OF INSTRUCTOR TABLE.
E24	PROVIDE GFCI BREAKER ON ELECTRIC WATER COOLER CIRCUIT.

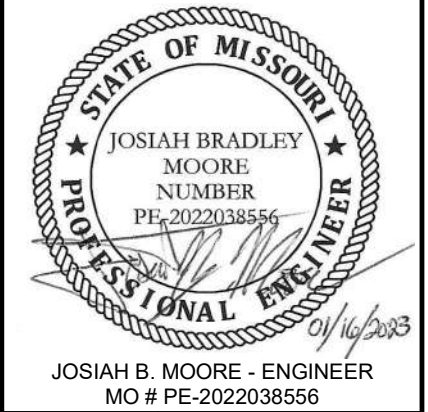
KLINGNER & ASSOCIATES, P.C.
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REVISION HISTORY		
DESCRIPTION	DATE	APPR

Klingner & Associates, P.C.
Missouri State Certificate of Authority
No. E-000866

ISSUED FOR 1/16/23

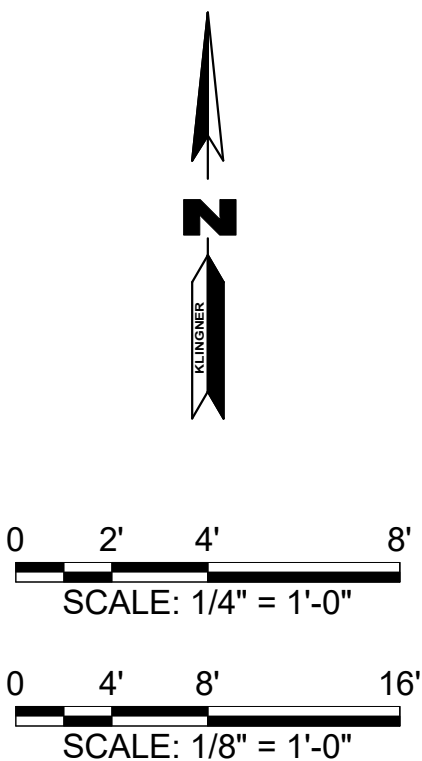
BIDDING DOCUMENTS



HALLSVILLE MIDDLE SCHOOL ADDITION
HALLSVILLE SCHOOL DISTRICT
421 MO-124 E
HALLSVILLE, MO 65255

Non-Reduced Sheet Size 30" x 42"	
Full sized plans have been prepared using standard scales. Reduced sized plans may not conform to standard scales.	
DESIGNED	DRAWN
JBM	JBM
FIELD	FIELD BOOK
CHECKED	CHECK DATE
JUN	01/09/2023
SHEET TITLE	
POWER PLAN	
PROJECT NO.	
21-0902	
DRAWING ISSUED DATE:	
01/16/2023	
SHEET	
E100	

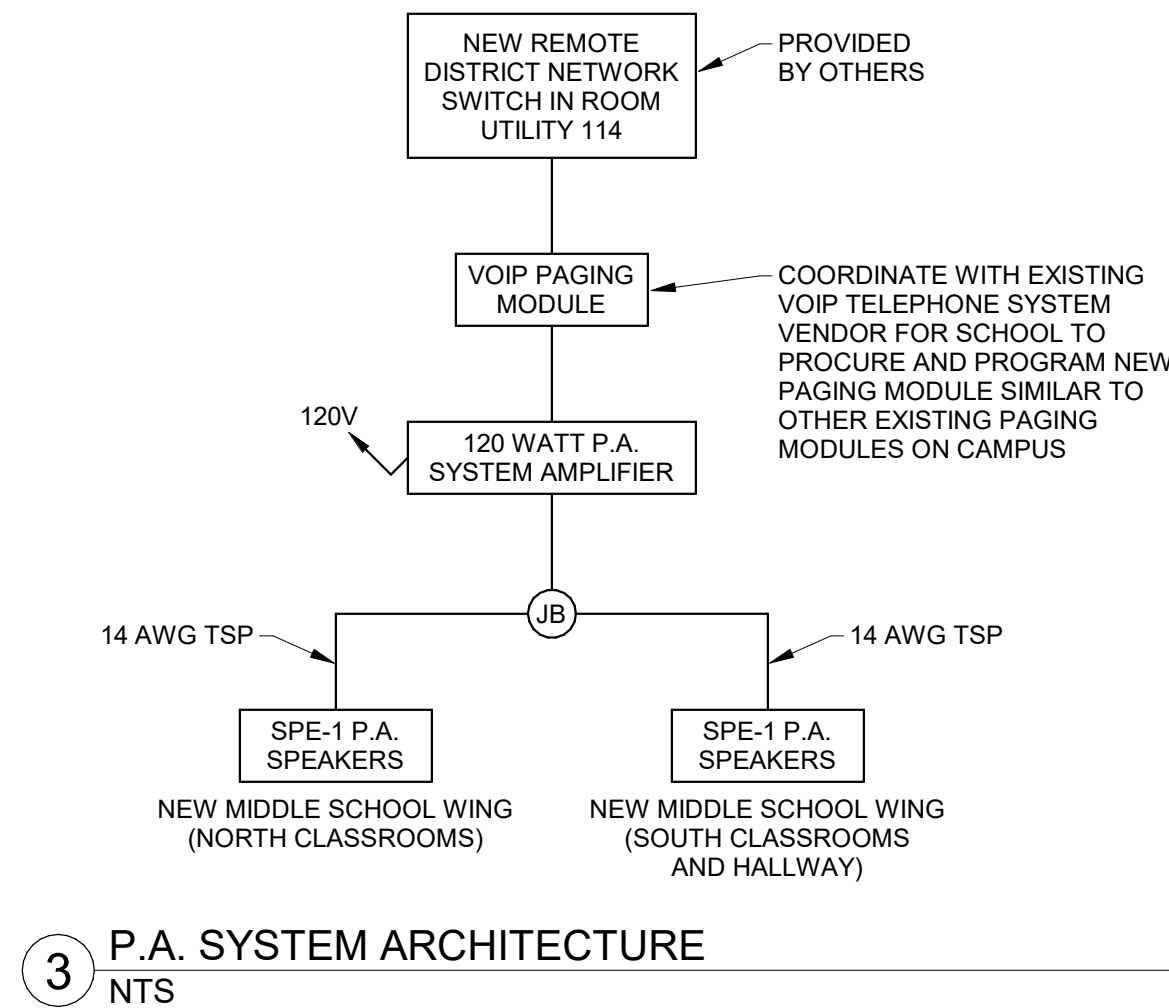
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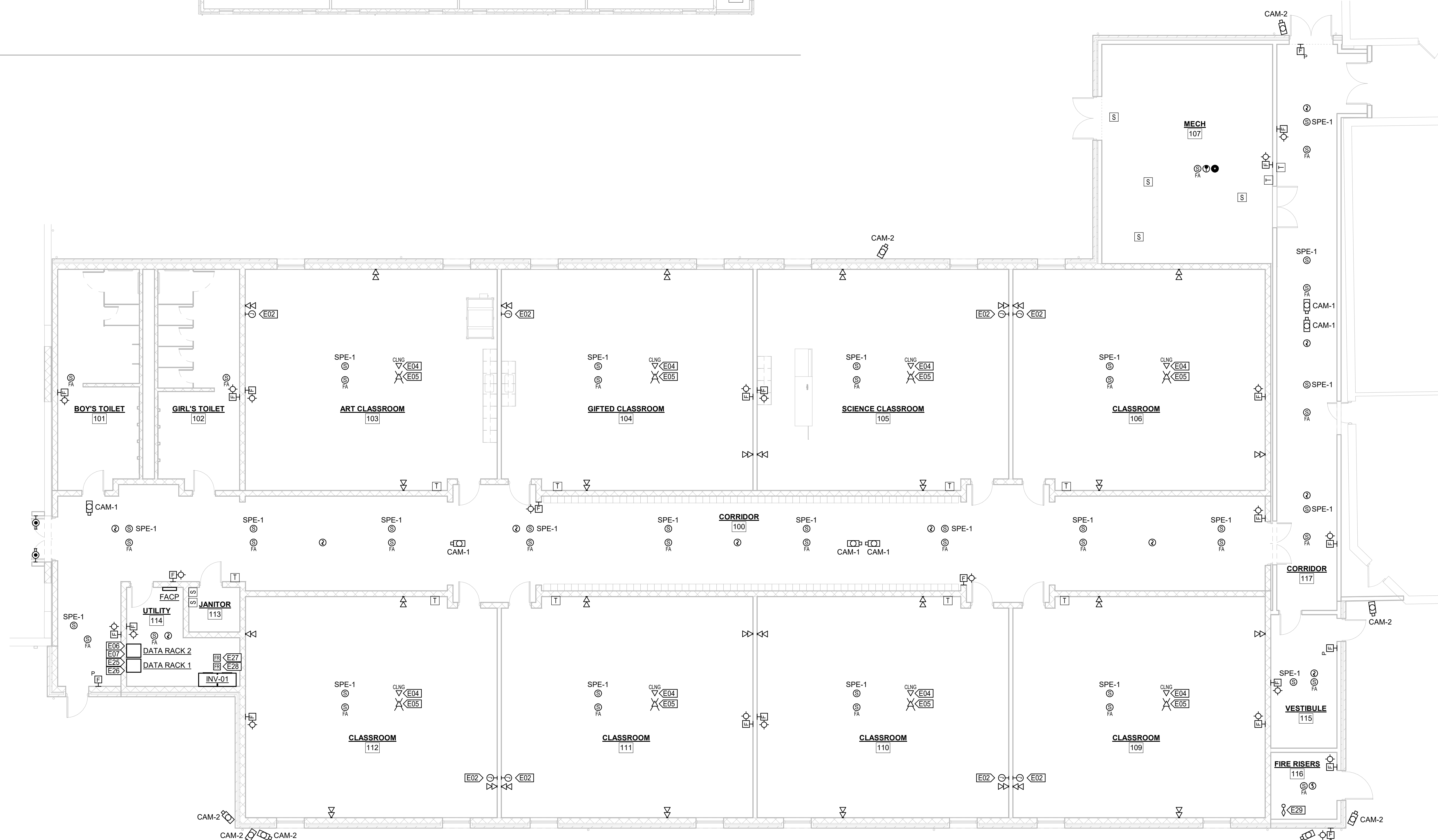


2 MAIN NETWORK SWITCH PLAN
NTS

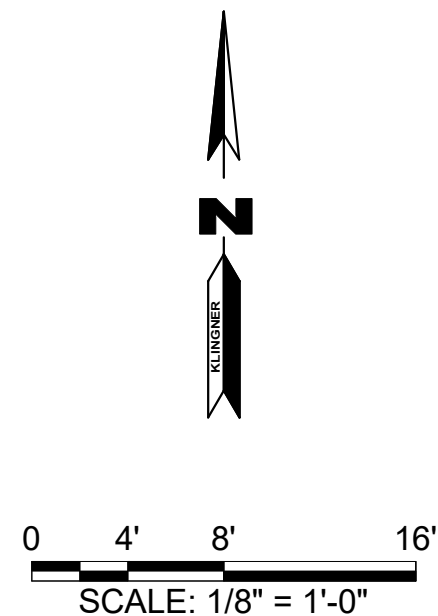


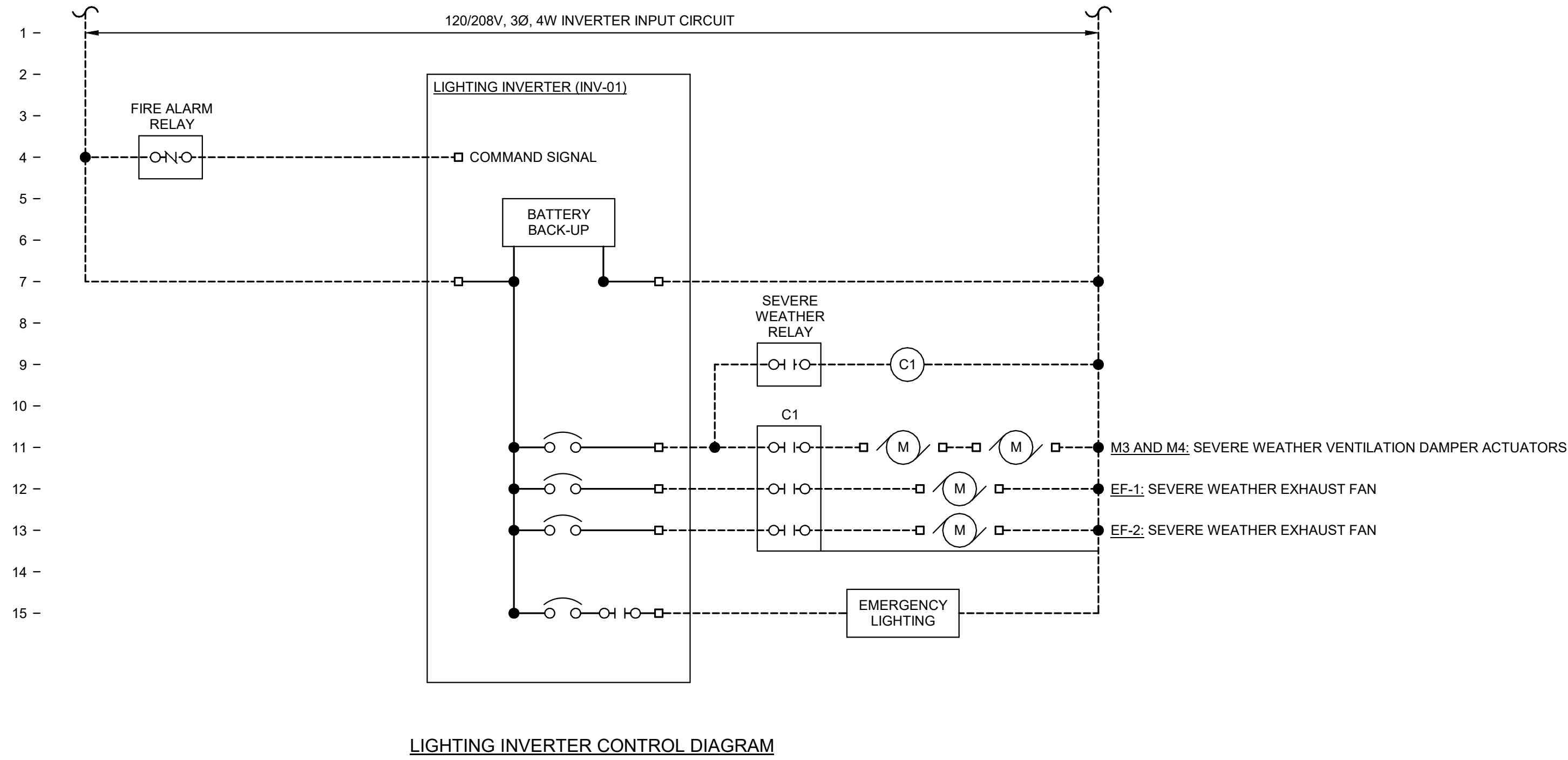
3 P.A. SYSTEM ARCHITECTURE
NTS

KEYNOTE LEGEND	
VALUE	DESCRIPTION
E02	INSTALL QUADPLEX JUNCTION BOX WITH 2" CONDUIT TO ABOVE FINISHED CEILING. LOCATE NEXT TO DATA RECEPTACLES. (TYPICAL FOR ALL WALL-MOUNTED JUNCTION BOXES SHOWN IN THIS ROOM ON THIS SHEET.)
E04	PROVIDE DATA CABLE TO CENTER OF ROOM ABOVE FINISHED CEILING WITH 20 FT OF EXCESS CABLE NEATLY COILED AND SECURED.
E05	PROVIDE DATA CABLE TO LOCATION SHOWN FOR FUTURE WIRELESS ACCESS POINT. PROVIDE 20 FT OF EXCESS CABLE NEATLY COILED AND SECURED ABOVE FINISHED CEILING. WIRELESS ACCESS POINT BY OWNER.
E06	TERMINATE ALL CLASSROOM NETWORK CABLES IN WALL-MOUNTED NETWORK CABINET USING PANDUIT MINICOM CAT6 JACKS IN PANDUIT RACK PANELS.
E07	INSTALL 12-STRAND 6-PAIR OM4 FIBER CABLE WITH LC CONNECTORS IN RACK PANEL INSIDE NETWORK CABINET AND ROUTE TO MAIN SERVER ROOM MS132 AND TERMINATE IN WALL BOX WITH LC ADAPTERS.
E25	INSTALL P.A. SYSTEM AMPLIFIER WITHIN DATA RACK.
E26	INSTALL DEDICATED CAMERA NETWORK SWITCH WITHIN DATA RACK AND ROUTE NEW CAMERA CABLES TO SWITCH. CONNECT SWITCH TO EXISTING CAMERA NETWORK VIDEO RECORDER VIA CAT6A CABLE.
E27	RELAY INPUT FOR LIGHTING INVERTER, FIRE ALARM AND INTRUDER.
E28	RELAY INPUT FOR LIGHTING INVERTER, SEVERE WEATHER.
E29	FIRE ALARM FLOW SWITCH ON FIRE RISER.



1 LOW VOLTAGE PLAN
1/8" = 1'-0"





LIGHTING INVERTER SEQUENCE OF OPERATION

NORMAL:

1. INVERTER BATTERIES ARE CHARGED BY INPUT LINE VOLTAGE.
2. SEVERE WEATHER VENTILATION DAMPERS ARE CLOSED.
3. SEVERE WEATHER EXHAUST FANS ARE OFF.
4. EMERGENCY LIGHTING IS OFF.

POWER OUTAGE:

1. INVERTER BATTERIES ARE DISCHARGED TO POWER EMERGENCY LOADS.
2. SEVERE WEATHER VENTILATION DAMPERS ARE CLOSED.
3. SEVERE WEATHER EXHAUST FANS ARE OFF.
4. EMERGENCY LIGHTING IS ON.

ACTIVE FIRE ALARM:

1. N.C. FIRE ALARM RELAY OPENS, WHICH REMOVES INPUT LINE VOLTAGE FROM COMMAND SIGNAL.
2. SEVERE WEATHER VENTILATION DAMPERS ARE CLOSED.
3. SEVERE WEATHER EXHAUST FANS ARE OFF.
4. EMERGENCY LIGHTING IS ON.
5. IF POWER OUTAGE OCCURS CONCURRENTLY WITH ACTIVE FIRE ALARM, THE SEQUENCE FOR THE ACTIVE FIRE ALARM OCCURS EXCEPT POWER IS PROVIDED BY THE BATTERY AS OPPOSED TO INPUT LINE VOLTAGE.

ACTIVE SEVERE WEATHER ALARM:

1. N.O. SEVERE WEATHER RELAY CLOSSES AND SEVERE WEATHER VENTILATION DAMPERS ARE POWERED OPEN.
2. N.O. SEVERE WEATHER RELAY CLOSSES AND SEVERE WEATHER EXHAUST FANS ARE POWERED ON.
3. IF POWER OUTAGE OCCURS CONCURRENTLY WITH ACTIVE SEVERE WEATHER ALARM, THE SEQUENCE FOR THE ACTIVE SEVERE WEATHER ALARM OCCURS EXCEPT POWER IS PROVIDED BY THE BATTERY AS OPPOSED TO INPUT LINE VOLTAGE.

LIGHTING CONTROL MATRIX									
TAG	LIGHTING CONTROL CAPABILITIES								
	LINE VOLTAGE	LOW VOLTAGE	MANUAL ON	MANUAL OFF	MANUAL DIMMING	OCCUPANCY SENSOR	VACANCY SENSOR	DUAL TECHNOLOGY	PHOTOCONTROL (ON/OFF)
①	X	X	X	X					
②	X	X	X	X					
③	X	X	X						
④	X	X				X			
⑤	X	X	X	X		X			
⑥	X							X	
⑦	X	X			X		X		
⑧	X								X

LIGHTING CONTROL SEQUENCES OF OPERATION

1. WALL MOUNT, LINE VOLTAGE, VACANCY SENSOR & MANUAL CONTROL.
A. UPON ACTIVATION BY MANUAL BUTTON LIGHTING SHALL BE ON.
B. AFTER NO MOTION DETECTION FOR 15 MIN. LIGHTING SHALL BE OFF.
C. LIGHTING MAY BE DEACTIVATED BY MANUAL BUTTON.
2. WALL MOUNT, DIMMING, LINE VOLTAGE, MANUAL CONTROL.
A. UPON ACTIVATION BY MANUAL BUTTON LIGHTING SHALL BE ON.
B. LIGHTING MAY BE MANUALLY DIMMED.
C. LIGHTING SHALL BE DEACTIVATED BY MANUAL BUTTON.
3. WALL MOUNT, LINE VOLTAGE, & MANUAL CONTROL.
A. UPON ACTIVATION BY MANUAL BUTTON LIGHTING SHALL BE ON.
B. UPON DEACTIVATION BY MANUAL BUTTON LIGHTING SHALL BE OFF.
4. LOW VOLTAGE, CEILING MOUNT OCCUPANCY SENSOR CONTROL.
A. UPON DETECTION OF MOTION BY ANY OCCUPANCY SENSOR IN THE ZONE, ALL LIGHTING SHALL BE ON.
B. AFTER NO MOTION DETECTION FOR 15 MIN. LIGHTING SHALL BE OFF.
5. LOW VOLTAGE, CEILING MOUNT VACANCY SENSOR CONTROL.
A. UPON ACTIVATION BY MANUAL BUTTON LIGHTING SHALL BE ON.
B. LIGHTING MAY BE MANUALLY DIMMED.
C. AFTER NO MOTION DETECTION FOR 15 MIN. LIGHTING SHALL BE OFF.
D. LIGHTING MAY BE DEACTIVATED BY MANUAL BUTTON.
6. EXTERIOR FIXTURE, PHOTOCELL CONTROL.
A. LIGHT FIXTURE SHALL BE CONTROLLED BY PHOTOCELL.
7. LOW VOLTAGE, CEILING MOUNT OCCUPANCY SENSOR CONTROL.
A. UPON DETECTION OF MOTION BY ANY OCCUPANCY SENSOR IN THE ZONE, ALL LIGHTING SHALL BE ON.
B. MOTION SENSOR SHALL BE DUAL TECHNOLOGY.
C. AFTER NO MOTION DETECTION FOR 15 MIN. LIGHTING SHALL BE OFF.
8. EMERGENCY LIGHTING.
A. SEE LIGHTING INVERTER CONTROL SCHEMATIC FOR SEQUENCE OF OPERATION.

CONTRACTOR NOTES:

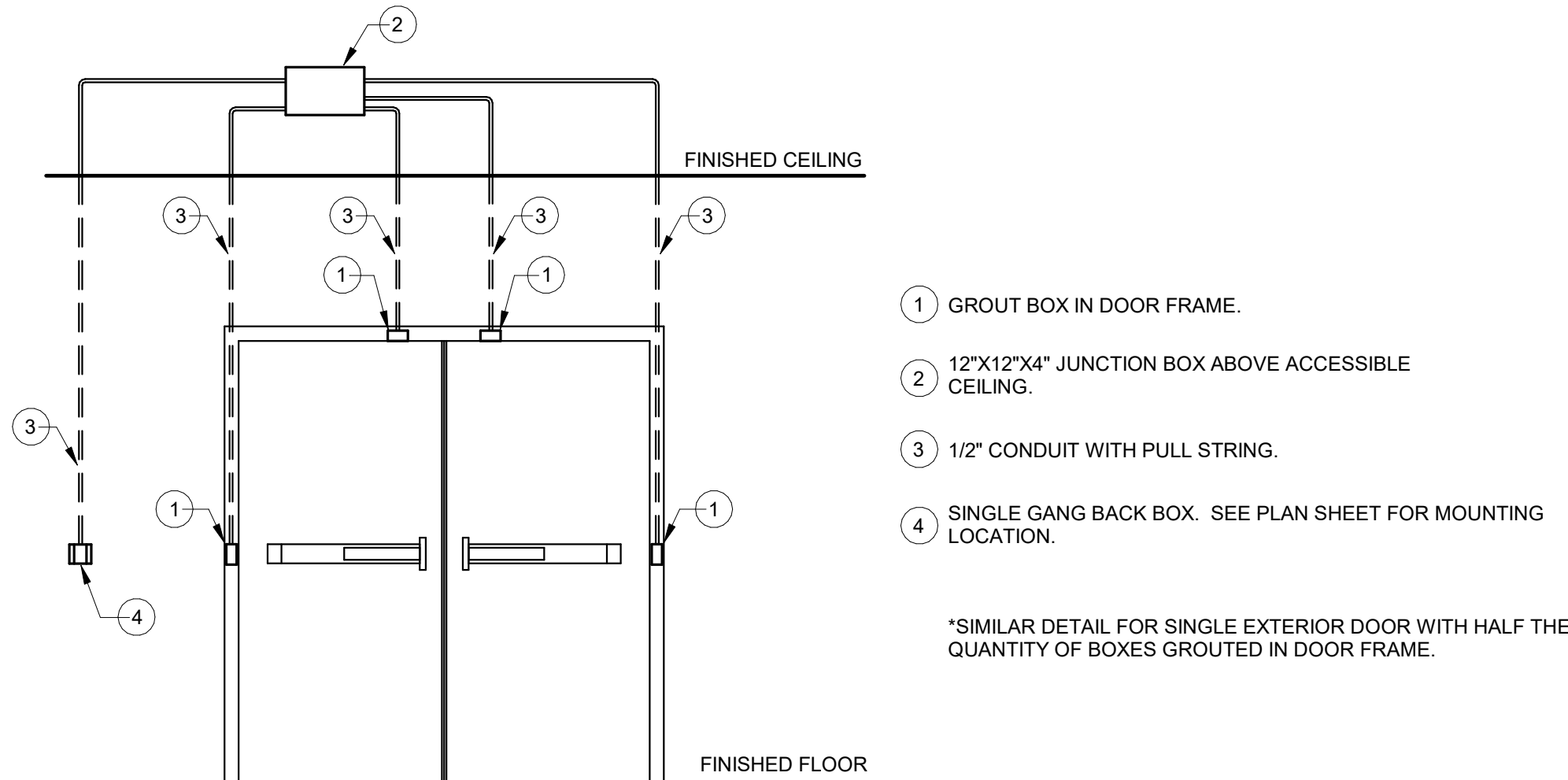
1. COORDINATE COMPATIBILITY OF ALL LIGHTING CONTROLS AND LIGHT FIXTURE DRIVERS.
2. PROVIDE ALL WIRE, DEVICES, POWER PACKS, SENSORS, ETC. AS NECESSARY TO CREATE A STAND-ALONE SYSTEM THAT ACCOMPLISHES THE DESCRIBED SEQUENCE OF OPERATION.
3. ALL LIGHTING CONTROLS SHALL BE HARD-WIRED (WIRELESS SYSTEMS ARE NOT ACCEPTABLE). ACCEPTABLE CONTROL DEVICE MANUFACTURERS SHALL INCLUDE SENSORSWITCH, WATTSTOPPER, AND LUTRON. SUBSTITUTIONS SHALL BE ALLOWED WITH ENGINEERS PRIOR APPROVAL ONLY.

1 INVERTER WIRING DIAGRAM

NTS

2 LIGHTING CONTROL MATRIX

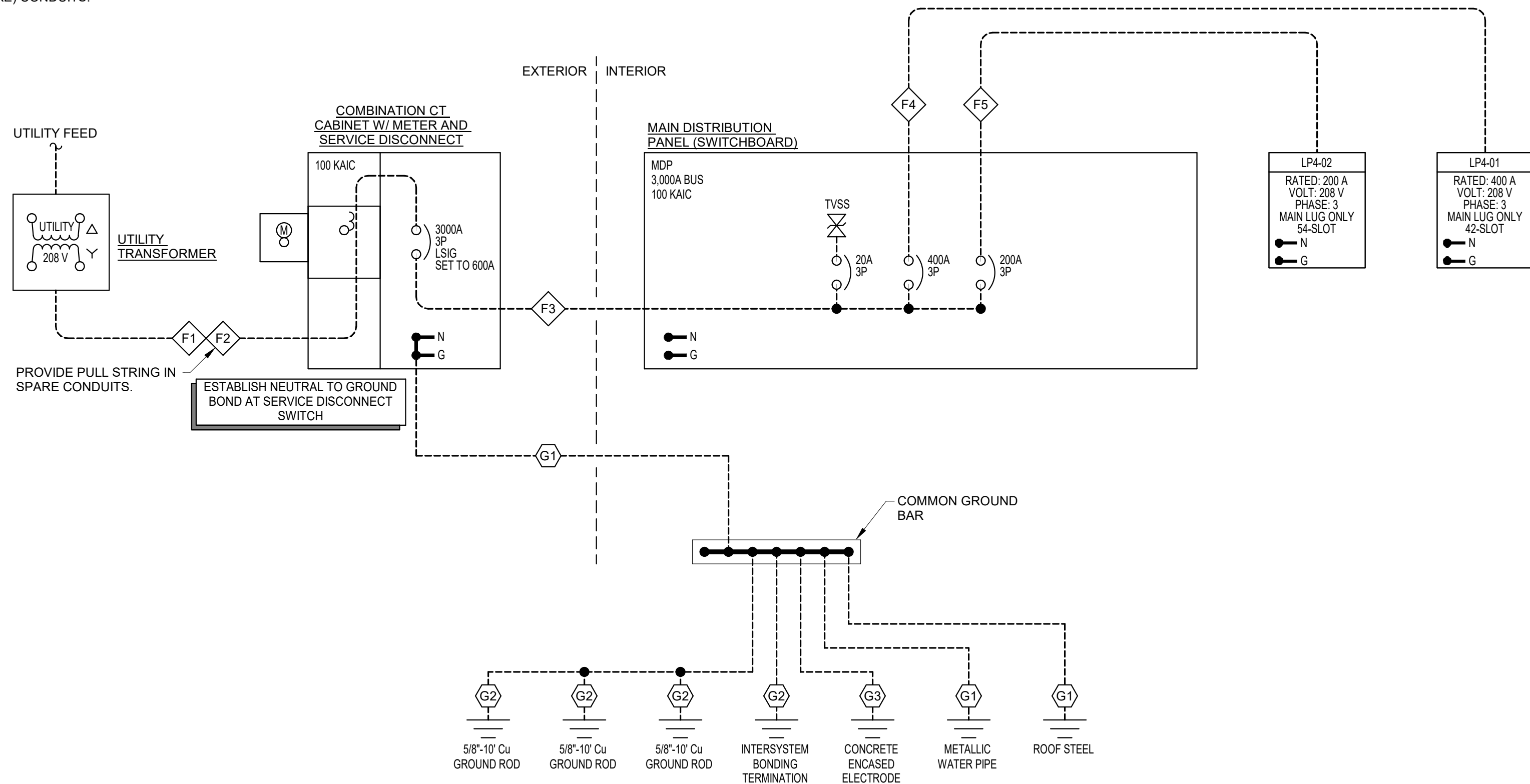
NTS



FEEDER SCHEDULE									
FEEDER TAG	PARALLEL SETS	PHASE CONDUCTORS QUANTITY	PHASE CONDUCTORS SIZE	NEUTRAL SIZE	EGC SIZE	CONDUIT SIZE	CONDUIT TYPE		
F1	2	3	600 KCML Cu	600 KCML Cu	NONE	4"	PVC		
F2	6	0	NONE	NONE	NONE	4"	PVC		
F3	2	3	600 KCML Cu	600 KCML Cu	#1 AWG Cu	4"	PVC		
F4	1	3	600 KCML Cu	600 KCML Cu	#3 AWG Cu	3-1/2"	EMT		
F5	1	3	3/0 AWG Cu	3/0 AWG Cu	#6 AWG Cu	2"	EMT		

NOTE: PROVIDE PULL STRING IN EMPTY (SPARE) CONDUITS.

GEC SCHEDULE	
GEC TAG	GEC SIZE
G1	3/0 AWG Cu
G2	#6 AWG Cu
G3	#4 AWG Cu



HALLSVILLE MIDDLE SCHOOL ADDITION

HALLSVILLE SCHOOL DISTRICT

421 MO-124 E
HALLSVILLE, MO 65255

Non-Reduced Sheet Size 30" x 42"
Full sized plans have been prepared using standard scales.
Reduced sized plans may not conform to standard scales.

DESIGNED	JBM	DRAWN	JBM
FIELD	JBM	FIELD BOOK	
CHECKED	JUN	CHECK DATE	01/09/2023

SHEET TITLE

ELECTRICAL DETAILS

PROJECT NO.
21-0002
DRAWING ISSUED DATE:
01/16/2023
SHEET

E501

KLINGNER & ASSOCIATES, P.C.
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REVISION HISTORY			
Δ	DESCRIPTION	DATE	APPR

Klinger & Associates, P.C.
Missouri State Certificate of Authority
No. E-000086

ISSUED FOR: 1/16/23

BIDDING DOCUMENTS

JOSHIAH B. MOORE, ENGINEER
MO # PE-2022038556

JOSHIAH B. MOORE, ENGINEER
MO # PE-2022038556

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BRANCH PANEL: LP4-01																					
LOCATION: MECH 107						VOLTS: 120/208						A.I.C. RATING: 100,000 AMPS SYMMETRICAL									
SUPPLY FROM: MDP						PHASES: 3						PANEL TYPE: MLO									
MOUNTING: SURFACE						WIRES: 4						MAINS RATING: 400 A									
ENCLOSURE: NEMA 1						ACCESSORIES: PROVIDE FEED-THRU LUGS															
CKT	CIRCUIT DESCRIPTION			TRIP	POLES	A		B		C		POLES	TRIP	CIRCUIT DESCRIPTION		CKT					
1	LIGHTING: 107, 115-117, NORTH EXT.			20 A	1	1287 VA	1260 VA					1	20 A	RCPT: 115-117		2					
3	RCPT: 107 WEST/EXTERIOR ROOF			20 A	1			900 VA	900 VA			1	20 A	RCPT: 107 EAST/EXTERIOR WALL		4					
5	CONDENSER C-01			40 A	3	4503 VA	21783 VA			4503 VA	21783 VA	3	225 A	CHILLER CH-01		6					
																			8		
																					10
																					12
9	CHWP-01			20 A	3	901 VA	901 VA			901 VA	901 VA	3	20 A	CHWP-02		14					
																			16		
																					18
																					20
13	HWP-01			20 A	3	901 VA	901 VA					3	20 A	HWP-02		22					
																			24		
																				26	
																				28	
17	DOAS-1			15 A	3	1441 VA	788 VA			1441 VA	502 VA	1	15 A	FCU-11 & BOILER B-1		30					
																			32		
																				34	
																				36	
21	FCU-10			20 A	1							1	20 A	FIRE RISER RM WALL HEATER		38					
																			40		
																				42	
25	SPACE			--	--	0 VA	0 VA					--	--	SPACE		44					
																			46		
																				48	
																				50	
29	SPACE			--	--	0 VA	0 VA					--	--	SPACE		52					
																				54	
																				56	
																				58	
33	SPACE			--	--	0 VA	0 VA					--	--	SPACE		60					
																				62	
																				64	
																				66	
37	SPACE			--	--	0 VA	0 VA					--	--	SPACE		68					
																				70	
																				72	
																				74	
41	SPACE			--	--							--	--	SPACE		76					
																				78	
																				80	
																				82	
						PHASE LOAD:		34,665 VA		33,856 VA		33,946 VA		**TOTAL LOAD: 102,469 VA							
						PHASE AMPS:		289 A		282 A		283 A		**TOTAL AMPS: 284 A							
* FIELD VERIFY BREAKER SIZE WITH ACTUAL EQUIPMENT PROVIDED. COORDINATE WITH OTHER CONTRACTORS AS NECESSARY.																					
**TOTAL LOAD AND TOTAL AMPS DO NOT INCLUDE DEMAND FACTOR CALCULATIONS.																					

Branch Panel: INV-01

LOCATION: UTILITY 114

SUPPLY FROM:

MOUNTING: FLOOR

ENCLOSURE: NEMA 1

VOLTS: 120/208

PHASES: 3

WIRES: 4

A.I.C. RATING: 65 KAIC

CAPACITY: 8250 VA

Notes:

REFER TO INVERTER WIRING DIAGRAM.

INVERTER SHALL PROVIDE RATED CAPACITY FOR 90 MINUTES (MINIMUM).

CKT	Circuit Description	Trip	Poles	A	B	C
1	LIGHTING: EMERGENCY WAFER	20 A	1	367 VA		
2,3,4	EMERGENCY EXHAUST FAN EF-1	20 A	3	901 VA	901 VA	901 VA
5,6,7	EMERGENCY EXHAUST FAN EF-2	20 A	3	901 VA	901 VA	901 VA
8	MOTORIZED DAMPERS M3 & M4	20 A	1		60 VA	
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
Total Load:				2169 VA	1861 VA	1801 VA
Total Amps:				18 A	16 A	15 A

BRANCH PANEL: LP4-02															
LOCATION: UTILITY 114						VOLTS: 120/208						A.I.C. RATING: 22,000 AMPS SYMMETRICAL			
SUPPLY FROM: MDP						PHASES: 3						PANEL TYPE: MLO			
MOUNTING: SURFACE						WIRES: 4						MAINS RATING: 200 A			
ENCLOSURE: NEMA 1						ACCESSORIES: PROVIDE FEED-THRU LUGS									
CKT	CIRCUIT DESCRIPTION	TRIP	POLES	A	B	C	POLES	TRIP	CIRCUIT DESCRIPTION	CKT					
1	LIGHTING: 100-102	20 A	1	1453 VA	1274 VA			1	20 A	LIGHTING: 103-104	2				
3	LIGHTING: 105-106	20 A	1		1274 VA	1274 VA		1	20 A	LIGHTING: 109-110	4				
5	LIGHTING: 111-114	20 A	1				1450 VA	156 VA	1	20 A	LIGHTING: SOUTH/EAST EXTERIOR	6			
7	RCPT: 103 NORTHWEST	20 A	1	900 VA	720 VA				1	20 A	RCPT: 103 SOUTH/EAST/CLNG	8			
9	RCPT: 104 NORTHWEST	20 A	1		900 VA	900 VA			1	20 A	RCPT: 104 SOUTH/EAST/CLNG	10			
11	RCPT: 105 NORTHWEST/AC	20 A	1					1080 VA	720 VA	1	20 A	RCPT: 105 SOUTH/EAST/CLNG	12		
13	RCPT: 106 FUTURE DISHWASHER	20 A	1	1440 VA	900 VA					1	20 A	RCPT: 106 SOUTH/EAST	14		
15	RCPT: 108 NORTHWEST/CLNG	20 A	1		720 VA	900 VA				1	20 A	RCPT: 108 SOUTH/EAST	16		
17	RCPT: 109 NORTHWEST/CLNG	20 A	1					720 VA	720 VA	1	20 A	RCPT: 110 SOUTH/EAST/CLNG	18		
19	RCPT: 110 NORTHWEST	20 A	1	900 VA	900 VA					1	20 A	RCPT: 111 SOUTH/EAST	20		
21	RCPT: 111 NORTHWEST/CLNG	20 A	1		720 VA	720 VA				1	20 A	RCPT: 112 SOUTH/EAST/CLNG	22		
23	RCPT: 112 NORTHWEST	20 A	1					900 VA	360 VA	1	20 A	RCPT: RESTROOMS	24		
25	RCPT: 113-114	20 A	1	720 VA	1104 VA					1	20 A	RCPT: WATER COOLERS	26		
27	MIDDLE SCHOOL DATA RACK 2	20 A	1			360 VA	900 VA			1	20 A	RCPT: CORRIDOR 100	28		
29	FACP	20 A	1					240 VA	1231 VA	1	20 A	FCU-1, FCU-2	30		
31	MAGNETIC DOOR HOLD OPENS	20 A	1	60 VA	1080 VA					1	20 A	FCU-5	32		
33	FCU-8, FCU-7	20 A	1			1231 VA	1231 VA			1	20 A	FCU-8, FCU-9	34		
35	BOYS HAND DRYER NORTH	20 A	1					1464 VA	1464 VA	1	20 A	GIRLS HAND DRYER NORTH	36		
37	MIDDLE SCHOOL DATA RACK 1	20 A	1	360 VA	2750 VA								SEVERE WEATHER INVERTER INV-01	38	
39	FCU-3, FCU-4	20 A	1			1231 VA	2750 VA			3	70 A			40	
41	GIRLS HAND DRYER SOUTH	20 A	1					1464 VA	2750 VA			1	20 A	SPARE	42
43	BOYS HAND DRYER SOUTH	20 A	1	1464 VA	0 VA							1	20 A	SPARE	44
45	SPARE	20 A	1			0 VA	0 VA					1	20 A	SPARE	46
47	SPARE	20 A	1					0 VA	0 VA			1	20 A	SPARE	48
49	SPARE	20 A	1	0 VA	0 VA							1	20 A	SPARE	50
51	SPARE	20 A	1			0 VA	0 VA					1	20 A	SPARE	52
53	SPARE	20 A	1					0 VA	0 VA			1	20 A	SPARE	54
PHASE LOAD:				16,025 VA	15,112 VA	14,720 VA	0 VA		15,720 VA		**TOTAL LOAD: 45,857 VA				
PHASE AMPS:				134 A	126 A	123 A						**TOTAL AMPS: 127 A			
* FIELD VERIFY BREAKER SIZE WITH ACTUAL EQUIPMENT PROVIDED. COORDINATE WITH OTHER CONTRACTORS AS NECESSARY.															
**TOTAL LOAD AND TOTAL AMPS DO NOT INCLUDE DEMAND FACTOR CALCULATIONS.															

LIGHT FIXTURE SCHEDULE													
TAG	DESCRIPTION	MOUNT	LENS	LAMP		NOMINAL OUTPUT	DRIVER CONTROL	VOLTAGE	LOAD	BASIS OF DESIGN			REMARKS
				TYPE	COLOR TEMP.					MAKE	MODEL	ACCESSORIES	
A1	2X4 ARCHITECTURAL TROFFER	LAY-IN	RIBBED	LED	4000 K	7200 lm	DIMS TO 1%	120 V	65 VA	DAY-BRITE 2-FG-G-74L-840-4-D-UNV-DIM LITHONIA 2BLT4-72L-ADP-EZ1-LP840 METALUX 24CZ2-70HE-UNV-L840-HCD1			
A2	2X4 ARCHITECTURAL TROFFER	LAY-IN	RIBBED	LED	4000 K	6000 lm	DIMS TO 1%	120 V	48 VA	DAY-BRITE 2-FG-G-54L-840-4-D-UNV-DIM LITHONIA 2BLT4-60L-ADP-EZ1-LP840 METALUX 24CZ2-60-UNV-L840-HCD1			
A3	2X2 ARCHITECTURAL TROFFER	LAY-IN	RIBBED	LED	4000 K	4500 lm	DIMS TO 1%	120 V	44 VA	DAY-BRITE 2-FG-G-45L-840-2-D-UNV-DIM LITHONIA 2BLT2-48L-ADP-EZ1-LP840 METALUX 22CZ2-44-UNV-L840-HCD1			
C1	EMERGENCY RECESSED WAFER LIGHT	RECESSED	FLUSH	LED	4000 K	1200 lm		120 V	14 VA	HALO HL86-09-940-1E-MW LITHONIA WFB-LED-30K40K50K-90CRI-MW NORA NEFLINTW-R6MPW			CONNECTED TO LIGHTING INVERTER