

SYMBOL	POWER
	HOME RUN TO PANELBOARD LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS. PROVIDE ONE PHASE CONDUCTOR, ONE NEUTRAL CONDUCTOR, AND ONE EQUIPMENT GROUNDING CONDUCTOR FOR SINGLE POLE CIRCUIT BREAKER CIRCUITS. PROVIDE TWO PHASE CONDUCTORS AND ONE EQUIPMENT GROUNDING CONDUCTOR FOR TWO POLE CIRCUIT BREAKER CIRCUITS. PROVIDE THREE PHASE CONDUCTORS AND ONE EQUIPMENT GROUNDING CONDUCTOR FOR THREE POLE CIRCUIT BREAKER CIRCUITS. CONDUIT AND CABLE, CONCEALED IN FINISHED SPACES, EXPOSED ELSEWHERE. CONDUIT AND CABLE, BELOW GRADE OR SLAB.
	UNDERGROUND DUCTBANK: EU = DENOTES ELECTRICAL GAS = DENOTES GAS LINE OE = DENOTES OVERHEAD ELECTRIC LINE T = DENOTES TELECOMMUNICATIONS
	CONDUIT TURNED UP. CONDUIT TURNED DOWN.
	GROUND ROD TEST WELL
	GROUND ROD
	EXOTHERMIC WELD.
	CLAMP CONNECTOR
	BOLTED CONNECTION
	AIR TERMINAL
	GROUND / GROUND ROD / GEC
	LIGHTNING PROTECTION MAIN CONDUCTOR
	BARE COPPER GROUNDING CONDUCTOR.
	GROUNDING BUSBAR
	WALL SWITCH UNLESS OTHERWISE NOTED MOUNTED 48" AFF. "X" REPRESENTS TYPE. "a" REPRESENTS LIGHTS SWITCHED. LV4 = 4 BUTTON LOW VOLTAGE SWITCH WITH RAISE AND LOWER LV8 = 8 BUTTON LOW VOLTAGE SWITCH WITH RAISE AND LOWER TS = TIME SWITCH D = LOW VOLTAGE DIMMER K = KEY OPERATED LV = LOW VOLTAGE SWITCH
	SINGLE, DUPLEX, 4-PLEX RECEPTACLE, MOUNTED 18" AFF UON. WP = WATERPROOF SP = SURGE SUPPRESSION TR = TAMPER RESISTANT AC = MOUNTED ABOVE COUNTER
	SPECIAL PURPOSE RECEPTACLE, SIZE AND TYPE AS SHOWN ON THE DRAWING.
	GFI DUPLEX RECEPTACLE.
	DUPLEX RECEPTACLE. FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE. CEILING MOUNTED, UNLESS OTHERWISE NOTED.
	DUPLEX RECEPTACLE WITH TWO 5VDC USB PORTS, ONE TYPE A USB PORT AND ONE TYPE B USB PORT.
	PULLBOX SIZE PER NEC UNLESS OTHERWISE NOTED.
	TRANSFORMER.
	JUNCTION BOX SIZE PER NEC UNLESS OTHERWISE NOTED.
	EQUIPMENT CONNECTION POINT.
	PANELBOARD SURFACE OR FLUSH MOUNTED AS INDICATED.
	VARIABLE FREQUENCY DRIVE.
	MOTOR CONNECTION.
	SINGLE POLE MANUAL MOTOR STARTER, WITH THERMAL OVERLOAD PROTECTION.
	NON-FUSIBLE DISCONNECT. "100/3" DENOTES 100A, 3P, '3R'.
	FUSIBLE DISCONNECT SWITCH. "200/3/150" DENOTES 200A, 3P, WITH 150A FUSES.
	ENCLOSED THERMAL MAGNETIC CIRCUIT BREAKER INDIVIDUALLY MOUNTED. "100/3" DENOTES 100A, 3P,(NOTATION TYPICAL). MAGNETIC MOTOR STARTER INDIVIDUALLY MOUNTED.
	FUSIBLE DISCONNECT SWITCH TYPE COMBINATION MAGNETIC MOTOR STARTER, CIRCUIT NUMBER AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR.
	MOTOR CIRCUIT PROTECTOR TYPE COMBINATION MAGNETIC MOTOR STARTER, CIRCUIT NUMBERS AS SHOWN ON THE DRAWINGS. INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR.
	SURFACE METAL RACEWAY, (SMR) COORDINATE SIZE WITH SPECIFICATION, MOUNTED ABOVE COUNTER TOP, UNLESS OTHERWISE NOTED.
	MULTISERVICE FLOOR BOX, . SEE E-502 FOR MORE INFORMATION.
	MULTISERVICE FLOOR BOX, . SEE E-502 FOR MORE INFORMATION.
	MULTISERVICE POKE THRU WITH QUADRUPLEX SOCKET AND GROUND. SEE MTF-T001 FOR TELECOMMUNICATIONS INFORMATION.
	EMERGENCY PUSH BUTTON
	PUSH BUTTON CONTROLLER

SYMBOL	FLOORBOXES
	FLOORBOX LOCATION, TRAINING SIMULATION SYSTEM – UNCLASSIFIED; INSTALLED IN RAISED ACCESS FLOOR. INSTALL EIGHT (8) CATEGORY 6A UTP PLENUM-RATED, GREEN JACKET COPPER CABLES FROM TERMINATING RACK IN SIM SERVER ROOM TO FLOORBOX LOCATION. SEE DETAIL SHEET E-502 FOR TERMINATION DETAILS.
	FLOORBOX LOCATION, TRAINING SIMULATION SYSTEM – CLASSIFIED; INSTALLED IN RAISED ACCESS FLOOR. INSTALL EIGHT (8) CATEGORY 6A UTP PLENUM-RATED, RED JACKET COPPER CABLES FROM TERMINATING RACK IN SIM SERVER ROOM TO FLOORBOX LOCATION. SEE DETAIL SHEET E-502 FOR TERMINATION DETAILS.
SYMBOL	GENERAL
	SHEET KEYNOTE X = KEYNOTE NUMBER
SYMBOL	LIGHTING
	STRIP LIGHTING FIXTURE. "LP1"=PANELBOARD, "2"=CIRCUIT NUMBER, "b"=SWITCH LETTER, "A"=FIXTURE TYPE LETTER. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
	LIGHTING FIXTURE. "LP1"=PANELBOARD, "2"=CIRCUIT NUMBER, "b"=SWITCH LETTER, "A"=FIXTURE TYPE LETTER.
	LIGHTING FIXTURE. "LP1"=PANELBOARD, "2"=CIRCUIT NUMBER, "b"=SWITCH LETTER, "A"=FIXTURE TYPE LETTER. SHADING DENOTES FIXTURE IS PROVIDED WITH EMERGENCY BATTERY BALLAST/DRIVER CONNECTED TO UNSWITCHED SENSING CIRCUIT WIRE.
	LIGHTING FIXTURE. "LP1"=PANELBOARD, "2"=CIRCUIT NUMBER, "A"=FIXTURE TYPE LETTER. FULL SHADING DENOTES FIXTURE IS UNSWITCHED AND PROVIDED WITH EMERGENCY BATTERY BALLAST/DRIVER.
	PENDANT MOUNTED LIGHTING FIXTURE.
	PENDANT MOUNTED STRIP LIGHTING FIXTURE
	CEILING MOUNTED LIGHTING FIXTURE.
	WALL MOUNTED LIGHTING FIXTURE.
	SITE LIGHTING ASSEMBLY.
	TWIN SITE LIGHTING ASSEMBLY.
	PHOTOCELL. COMPATIBLE WITH LIGHTING CONTROL PANEL.
	CEILING MOUNTED EXIT SIGN, DRAWINGS INDICATE SINGLE OR DOUBLE FACED WITH DIRECTIONAL ARROWS..
	WALL MOUNTED EXIT SIGN, DRAWINGS INDICATE SINGLE OR DOUBLE FACED WITH DIRECTIONAL ARROWS. MOUNT 8'-0" AFF.
	EMERGENCY LIGHTING MASTER UNIT, BATTERY POWERED. CONNECT TO UNSWITCHED PORTION OF LOCAL LIGHTING CIRCUIT. LP1 DENOTES PANELBOARD DESIGNATION. 12 DENOTES CIRCUIT NUMBER. W DENOTES FIXTURE TYPE LETTER.
	WALL SWITCH DUAL TECH, LOW VOLTAGE VACANCY SENSOR
	WALL SWITCH DUAL TECH, LOW VOLTAGE VACANCY SENSOR - WITH DIMMING
	WALL SWITCH DUAL TECH, LOW VOLTAGE OCCUPANCY SENSOR
	CEILING MOUNTED, DUAL TECH LOW VOLTAGE OCCUPANCY SENSOR
	CEILING MOUNTED, LOW VOLTAGE ULTRASONIC CORRIDOR OCCUPANCY SENSOR
	CEILING MOUNTED DUAL TECH LOW VOLTAGE VACANCY SENSOR
	DENOTES CEILING SENSOR WITH AUXILIARY RELAY FOR TIE IN/ INTERFACE WITH VAV BOX.
	SMART POWER PACK, EQUAL TO nLIGHT. - PROVIDE WITH DIMMING
	LIGHTING CONTROL CONTACTOR PANEL.
	DOOR CONTACT LIGHT SWITCH.
	LOW VOLTAGE SWITCH
SYMBOL	PHASING
	NEW CONSTRUCTION
	DEMOLITION
	EXISTING TO REMAIN
	REMOVE AND RELOCATE
	EXISTING RELOCATED

GENERAL NOTES	
1. THIS IS A STANDARD LEGEND SHEET. NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPEAR ON DRAWINGS.	
2. MOUNTING DEVICES AND EQUIPMENT PER SPECIFICATIONS UNLESS OTHERWISE NOTED.	
3. ENCLOSURES SHALL BE NEMA 1 UNLESS OTHERWISE NOTED. 3R=NEMA 3R, 4X=NEMA 4X, WP=WEATHERPROOF, AND XP=EXPLOSION PROOF.	
4. PROVIDE GROUND CONDUCTOR FOR ALL BRANCH, FEED, AND EQUIPMENT CIRCUITS SIZED PER NEC, UNLESS OTHERWISE INDICATED.	
5. WHERE MULTIPLE CIRCUITS ARE COMBINED IN A SINGLE RACEWAY THE CONTRACTOR SHALL DETERMINE THE EXACT NUMBER OF CONDUCTORS, ROUTING, AND SIZE OF THE RACEWAY. SIZE THE WIRE AMPACITY IN ACCORDANCE WITH THE NEC.	
6. CONTRACTOR SHALL COORDINATE ALL CONDUIT PENETRATIONS AND PROVIDE CONDUIT SEALS IN HAZARDOUS LOCATION. PENETRATION SEALS, EXPANSION/VIBRATION ISOLATION FITTINGS AS APPLICABLE.	
7. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO MAINTAIN AIR BARRIER INTEGRITY FOR ELECTRICAL RACEWAY PENETRATION.	
8. ALL WIRING FOR LIGHTING AND POWER CIRCUITS SHALL BE NO. 12 AWG MINIMUM.	
9. ALL WIRING FOR CONTROL SHALL BE NO. 14 MINIMUM.	
10. ALL CONDUIT SHALL BE MINIMUM 3/4" FOR POWER, MINIMUM 1" FOR DATA/COMM.	
11. THE WIRE SIZE FROM A 20 AMPERE, SINGLE POLE, 120 VOLT CIRCUIT BREAKER MOUNTED IN A LIGHTING PANELBOARD TO THE LOAD SHALL BE AS FOLLOWS: NO. 12 AWG WIRE UP TO 100 FEET RUN; NO. 10 AWG WIRE; 101 FEET RUN UP TO 200 FEET RUN; NO. 8 AWG WIRE 201 FEET RUN UP TO 300 FEET RUN.	
12. SELF CONTAINED UNIT EQUIPMENT SERVING EXIT AND EGRESS LIGHTING SYSTEMS SHALL BE CONNECTED TO THE UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT IN COMPLIANCE WITH NEC 700.12 (F).	
13. CONTRACTOR SHALL COMPLY WITH ALL CONTRACT REQUIREMENTS AND ALL APPLICABLE CODES, LAWS, AND REGULATIONS, INCLUDING NATIONAL ELECTRICAL CODE, OSHA, AND NATIONAL ELECTRICAL SAFETY CODE.	
14. THIS SPECIFICATION AND THE DRAWINGS ARE NOT INTENDED TO SHOW ALL DETAILS, WIRING, BOXES, COVERS, FITTINGS, AND SPECIAL CONSTRUCTION WHICH MAY BE NECESSARY OR REQUIRED. THIS CONTRACTOR SHALL FURNISH, INSTALL, AND CONNECT ALL REQUIRED WORK IN ORDER TO MAKE THE INSTALLATION COMPLETE AS INDICATED BY THIS SPECIFICATION AND THE DRAWINGS. "PROVIDE" SHALL MEAN FURNISH AND INSTALL COMPLETE. "APPROVED" SHALL MEAN APPROVED BY OWNER'S REPRESENTATIVE. "DIRECTED" SHALL MEAN DIRECTED BY THE OWNER'S REPRESENTATIVE.	
15. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT SHOW EXACT ROUTES OF WIRING AND EXACT LOCATION OF EQUIPMENT. CONTRACTOR SHALL BECOME FAMILIAR WITH JOB CONDITIONS AND SHALL ARRANGE ALL WORK TO AVOID CONFLICTS. ALL FINAL LOCATIONS OF NEW CONDUITS, OUTLETS, AND EQUIPMENT SHALL BE SUBJECT TO APPROVAL.	
16. PROVIDE ALL ITEMS INDICATED ON DRAWINGS AND REQUIRED BY SPECIFICATIONS, INCLUDING: ALL SUPPORTS, HARDWARE AND ACCESSORIES, BRANCH CIRCUIT WIRING, AND DEVICES.	
17. PRIOR TO EXECUTION OF THIS CONTRACT, THIS CONTRACTOR SHALL HAVE VISITED THE SITE (BY APPOINTMENT) AND SHALL HAVE EXAMINED ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK. SUBMISSION OF A BID SHALL BE CONSIDERED INDICATIVE THAT THIS CONTRACTOR HAS VISITED THE SITE AND HAS DETERMINED ALL EXISTING CONDITIONS WHICH MAY AFFECT THE CONTRACT WORK AND HAS INCLUDED ALL COSTS RELATED TO SITE CONDITIONS IN THE AMOUNT BID.	
18. PROVIDE ARC FLASH LABELING IAW NEC 110.16.	
19. ALL LISTED MATERIALS AND EQUIPMENT ARE INDICATIVE OF COMPLETE AND WHOLE UNITS (UNLESS SPECIFICALLY INDICATED TO THE CONTRARY) AND SHALL BE FURNISHED AS SUCH.	
20. ALL CONSTRUCTION UNDER THIS CONTRACT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE. THE CONTRACTOR SHALL REMOVE AND REPLACE ALL WORK WHICH IS NOT INSTALLED AS APPROVED.	
21. UNLESS NOTED OTHERWISE, ALL MATERIALS AND EQUIPMENT SHALL BE NEW, APPROVED QUALITY, SPECIFICATION GRADE, AND LISTED BY UNDERWRITER'S LABORATORIES OF NATIONAL BOARD OF FIRE UNDERWRITERS.	
22. ALL CUTTING REQUIRED FOR THE INSTALLATION OF ELECTRICAL CONSTRUCTION UNDER THIS CONTRACT SHALL BE ACCOMPLISHED IN SUCH MANNER AS NOT TO CAUSE STRUCTURAL OR ARCHITECTURAL DAMAGE TO BUILDING OR LEAVE UNSIGHTLY SURFACES. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PATCHING TO PROVIDE A NEAT AND FINISHED SURFACE EQUAL TO SURROUNDING UNDISTURBED SURFACES WHEREVER CUTTING, PATCHING, DAMAGE OR REMOVAL OF EQUIPMENT IS PERFORMED UNDER THIS CONTRACT. ALL PATCHING AND RESTORING OF SURFACES SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE SUBJECT TO APPROVAL.	
23. PROVIDE ROUGH-IN CONNECTIONS FOR ALL OF/OFCI EQUIPMENT INCLUDING BUT NOT LIMITED TO PRINTER, COPIER, FAX MACHINES, INTERCOM, CAMERAS, PROJECTORS, PODIUMS, SMARTBOARDS, FLAT SCREEN MONITORS, FURNITURE SYSTEMS, AND SECURITY SYSTEMS.	
24. THE ELECTRICAL CONTRACTOR SHALL REVIEW REQUIREMENTS FOR THE INSTALLATION OF ELECTRICAL PORTIONS OF WORK INDICATED ON THE CONSTRUCTION DOCUMENTS OF OTHER TRADES AND INCLUDE REQUIREMENTS IN BIDDING THIS CONTRACT.	
SYMBOL	SINGLE-LINE DIAGRAM
	SINGLE LINE DIAGRAM THERMAL-MAGNETIC CIRCUIT BREAKER.
	SINGLE LINE DIAGRAM COMBINATION MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR (MCP) AND THERMAL OVERLOAD (OL).
	SINGLE LINE DIAGRAM NON-FUSED DISCONNECT SWITCH.
	SINGLE LINE DIAGRAM FUSED DISCONNECT SWITCH.
	SINGLE LINE DIAGRAM TRANSFORMER
	VARIABLE FREQUENCY DRIVE WITH INTERNAL OVERCURRENT DISCONNECT DEVICE.
	WOOD UTILITY POLE
	ATS
	GROUNDING ELECTRODE
	GENERATOR
	SINGLE LINE DIAGRAM METER

ABBREVIATIONS	
A AMPS	XFMR TRANSFORMER
AFF ABOVE FINISHED FLOOR	XP EXPLOSION PROOF
AFG ABOVE FINISHED GROUND	
AHU AIR HANDLING UNIT	
AIC CURRENT INTERRUPTER CAPACITY	
ATS AUTOMATIC TRANSFER SWITCH	
AWG AMERICAN WIRE GAUGE	
BFC BELOW FINISHED CEILING	
BRKR CIRCUIT BREAKER	
C CONDUIT	
CB CIRCUIT BREAKER	
CFCI CONTRACTOR FURNISHED CONTRACTOR INSTALLED	
CPR COPIER	
CRAC COMPUTER ROOM AIR CONDITIONER	
CRCU COMPUTER ROOM CONDENSING UNIT	
CT CONTROL TRANSFORMERS	
DB DIRECT BURIED	
DIA DIAMETER	
DP DISTRIBUTION PANEL	
DWG DRAWING	
EGC EQUIPMENT GROUNDING CONDUCTOR	
EMT ELECTRICAL METALLIC TUBING	
ER EXISTING RELOCATED	
ERU ENERGY RECOVERY UNIT	
ETR EXISTING TO REMAIN	
EWC ELECTRIC WATER COOLER	
EXST EXISTING	
FB FLOOR BOX	
GEC GROUNDING ELECTRODE CONDUCTOR	
GFP GROUND FAULT PROTECTION	
GND GROUND	
GRD GROUND	
GRS GALVANIZED RIGID STEEL	
IAW IN ACCORDANCE WITH	
IDS INTRUSION DETECTION SYSTEM	
IMC INTERMEDIATE METALLIC CONDUIT	
KVA KILO VOLT AMPS	
KW KILO WATT	
LCP LIGHTING CONTROL PANEL	
LED LIGHT EMITTING DIODE	
LP LIGHTING PANEL	
MC MECHANICAL CONTRACTOR	
MCP MOTOR CIRCUIT PROTECTOR	
MCS MOLDED CASE SWITCH	
MEP MECHANICAL EQUIPMENT PANEL	
MIN MINIMUM	
MLO MAIN LUG ONLY	
MTD MOUNTED	
MUA MAKE UP AIR UNIT	
NEC NATIONAL ELECTRIC CODE	
NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	
NEC NATIONAL ELECTRICAL SAFETY CODE	
NFPA NATIONAL FIRE PROTECTION ASSOCIATION	
NIC NOT IN CONTRACT	
NO NUMBER	
NP NIPRNET SENDER	
NS SIPRNET SENDER	
NTS NOT TO SCALE	
OEM ORIGINAL EQUIPMENT MANUFACTURER	
OFCI OWNER FURNISHED CONTRACTOR INSTALLED	
OFOI OWNER FURNISHED OWNER INSTALLED	
OL THERMAL OVERLOAD	
OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION	
OSP OUTSIDE PLANT	
P POLE	
PH PHASE	
PIV POST INDICATOR VALVE	
PP POWER PANEL	
PSI POUNDS PER SQUARE INCH	
PT POTENTIAL TRANSFORMERS	
PVC POLYVINYL CHLORIDE	
QTY QUANTITY	
RCD RESIDUAL CURRENT DEVICE	
RECEPT RECEPTACLE	
RR REMOVE AND RELOCATE	
RGS RIGID GALVANIZED STEEL CONDUIT	
RMC RIGID METAL CONDUIT	
RS RIGID STEEL	
SCH SCHEDULE	
SDP STANDBY DISTRIBUTION PANEL	
SGP SINGLE GROUND POINT	
SLP STANDBY LIGHTING PANEL	
SP SIPRNET PRINTER	
SPD SURGE PROTECTION DEVICE	
SPP STANDBY POWER PANEL	
SS SIPRNET SENDER	
SW SWITCHED	
T TRANSFORMER	
TV TELEVISION	
TW TEST WELL	
TX TRANSFORMER	
TYP TYPICAL	
U/G UNDERGROUND	
UON UNLESS OTHERWISE NOTED	
V VOLTS	
VAV VARIABLE AIR VOLUME	
VDC VOLTS DIRECT CURRENT	
VFD VARIABLE FREQUENCY DRIVE	
W WATTS OR WIRE	
WP WEATHERPROOF	

APPR	DATE	DESCRIPTION	SYN
100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED			
FOR COMMANDER NAVFAC ACTIVITY MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE DES SD DRW LAK CHK YPS			
PM BRANCH MANAGER CHIEF ENGINEER FIRE PROTECTION			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC JACKSONVILLE, NC ROIC FLORENCE CAMP LEJEUNE MCB CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT ELECTRICAL - NOTES, SYMBOLS, AND ABBREVIATIONS			
SCALE: AS NOTED EPROJCT NO.: 1590892 CONSTR. CONTR. NO.: N40085-20-C-0059 NAVFAC DRAWING NO.: SHEET OF E-001			

FILE NAME: BIM_360/1/AF PACKAGE 3P1338.MEF SIM CTR-1590892.E-01 PLOTTED: 5/28/2021 2:58:20 PM

UNCLASSIFIED DP2 SUBMISSION - P1338 BUILDING -PRE-FINAL SUBMISSION

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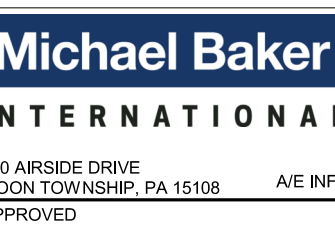
GENERAL NOTES

- 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYNOTES

- 1 12.47KV-480Y/277V, 3PH, 4W, 60Hz, OIL FILLED UTILITY TRANSFORMER, OVER A PRECAST TRANSFORMER PAD. FOR ADDITIONAL INFORMATION SEE SPECIFICATIONS AND DRAWING E-602.
- 2 480Y/277V, DIESEL GENERATOR WITH SUBBASE FUEL TANK AND CONCRETE PAD. SEE ADDITIONAL INFORMATION ON DRAWING E-502. FOR ADDITIONAL INFORMATION SEE SPECIFICATIONS AND DRAWINGS E-502 / E-602.
- 3 AUTOMATIC TRANSFER SWITCH EQUIPPED WITH MAINTENANCE BYPASS SWITCH. FOR ADDITIONAL INFORMATION SEE SPECIFICATIONS AND DRAWING E-601.
- 4 POWER PEDESTAL WITH HEAVY-DUTY NEMA 4X STAINLESS STEEL AND FUSED DISCONNECT SWITCH. COORDINATE FINAL POWER LOCATIONS WITH FINAL PEDESTAL LOCATION.
- 5 TYPE 4 TRAFFIC/AIRFIELD RATED HANDHOLE FOR POWER. COORDINATE HANDHOLE LOCATIONS WITH FINAL POWER LOCATIONS. SEE DETAIL UG-5 ON ES505.
- 6 CONTRACTOR TO COORDINATE FINAL TERMINATION POINT FOR ELECTRICAL CONNECTIONS BEFORE RUNNING CONDUIT.
- 7 RUN CHILLER CONDUITS UNDER ELECTRICAL ROOM SLAB AND STUB UP AT SWITCHBOARD LOCATION. SEE DRAWING E-401 FOR SWITCHBOARD LOCATION.
- 8 TYPE 5 COMPOSITE / FIBERGLASS, NON TRAFFIC RATED HANDHOLE FOR POWER AND COMM TO VEHICLE LIFT GATES. COORDINATE HANDHOLE LOCATION WITH FINAL POWER LOCATIONS FOR LIFT GATES. SEE DETAIL UG-6 ON ES505.
- 9 12.47KV-208Y/120V, 3PH, 4W, 60Hz, OIL FILLED UTILITY TRANSFORMER, OVER A PRECAST TRANSFORMER PAD TO SERVE DISTRIBUTION PANELBOARD FEEDING POWER PEDESTALS. FOR ADDITIONAL INFORMATION SEE SPECIFICATIONS AND DRAWING E-602.
- 10 600A, NEMA 4X STAINLESS STEEL, 208/120V DISTRIBUTION PANELBOARD FOR POWER PEDESTAL CONNECTIONS.
- 11 SEE NAVFAC STANDARD OVERHEAD TEMPLATES ON SHEET ES504.

SYMBOL	DESCRIPTION	DATE	APPROVED



FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

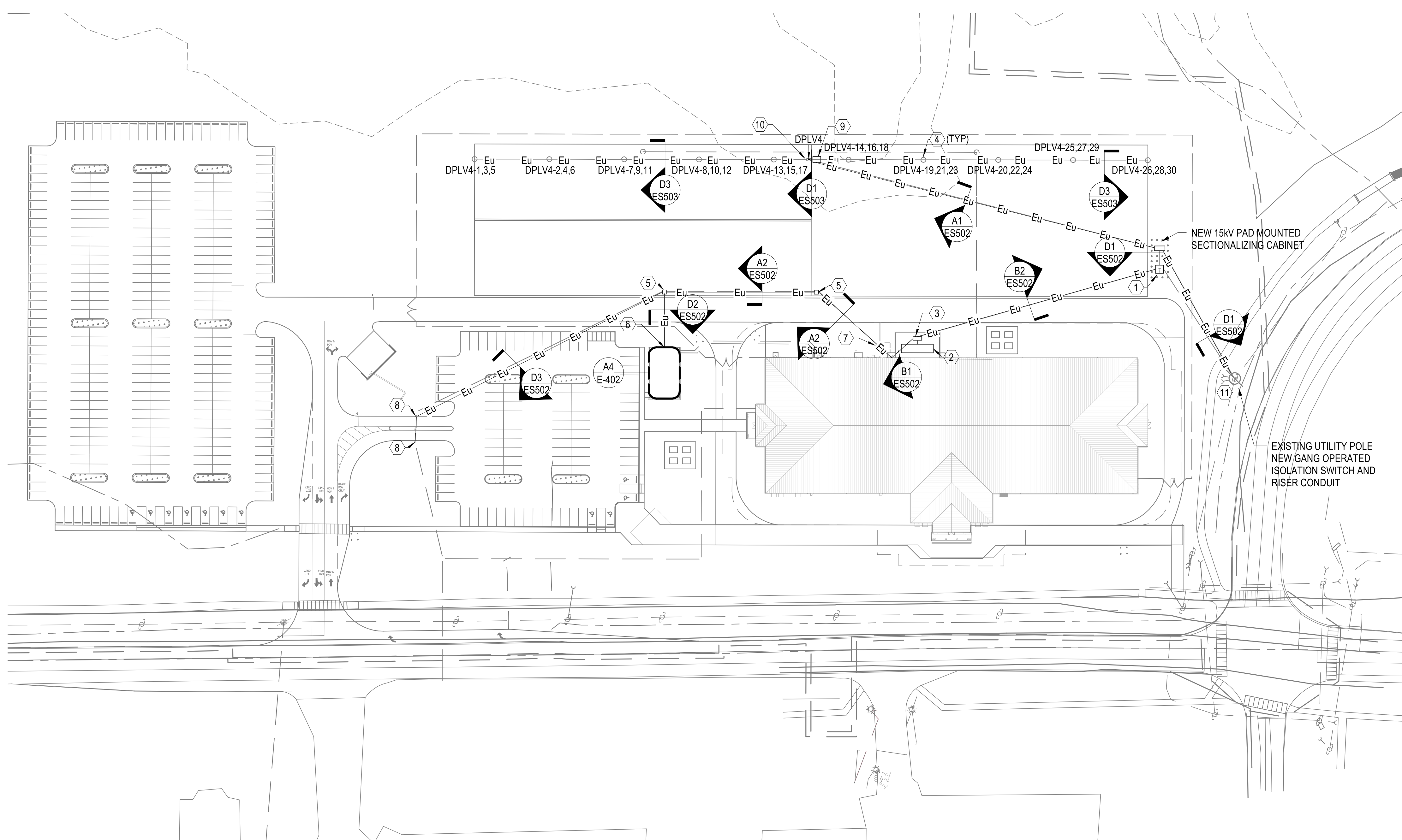
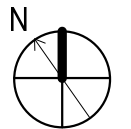
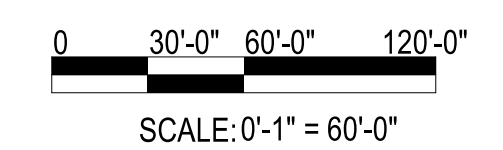
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DES SD	DRW LAK	CHK YPS
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BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE UTILITY PLAN

SCALE: AS NOTED
EPROJECT NO.: 1509892
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.:
SHEET OF
ES101



ELECTRICAL - SITE UTILITY PLAN

SCALE: 1" = 60'-0"

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DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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GENERAL NOTES

- 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2 SEE SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.
- 3 DUCTBANKS UNDER PAVEMENT SHALL BE CONCRETE ENCASED.

KEYNOTES

- 1 SITE LIGHTING HAND HOLE, SIZE PER NEC.
- 2 MOUNT FIXTURE 8'-0" ABOVE FINISHED GRADE.



Michael Baker INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 APPROVED

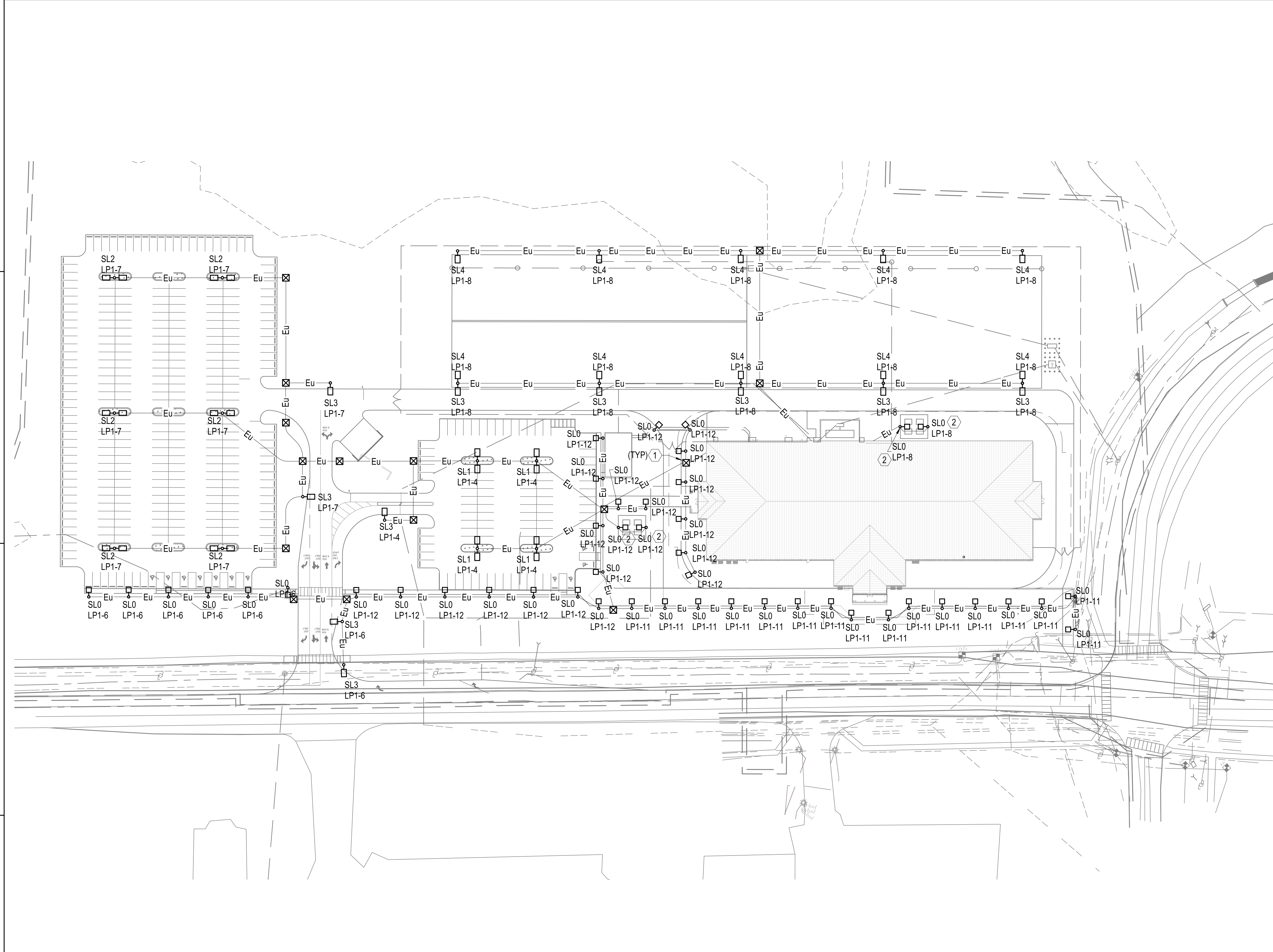
FOR COMMANDER NAVFAC
 ACTIVITY
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 CHIEF ENGINEER
 FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 ROIC FLORENCE CAMP LEJEUNE
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 ELECTRICAL - SITE LIGHTING PLAN

SCALE: AS NOTED
 EPROJECT NO.: 1500892
 CONSTR. CONTR. NO.
 N40085-20-C-0059
 NAVFAC DRAWING NO.
 SHEET OF
ES102

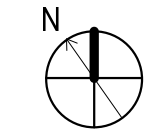
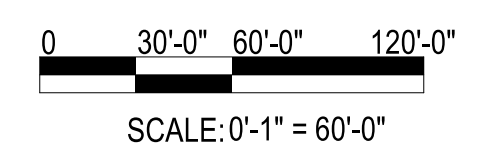
DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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ELECTRICAL - SITE LIGHTING PLAN

SCALE: 1" = 60'-0"



SCALE: 0'-1" = 60'-0"

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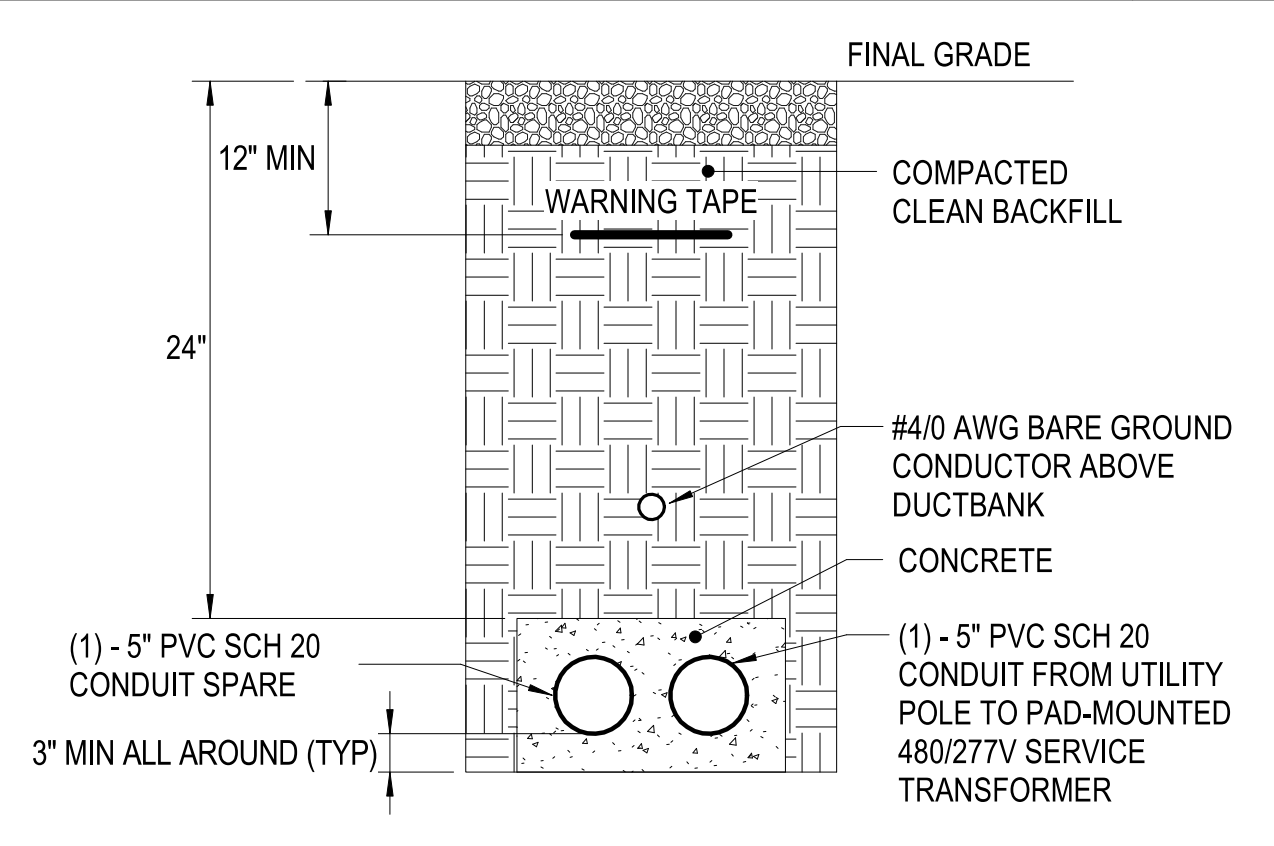
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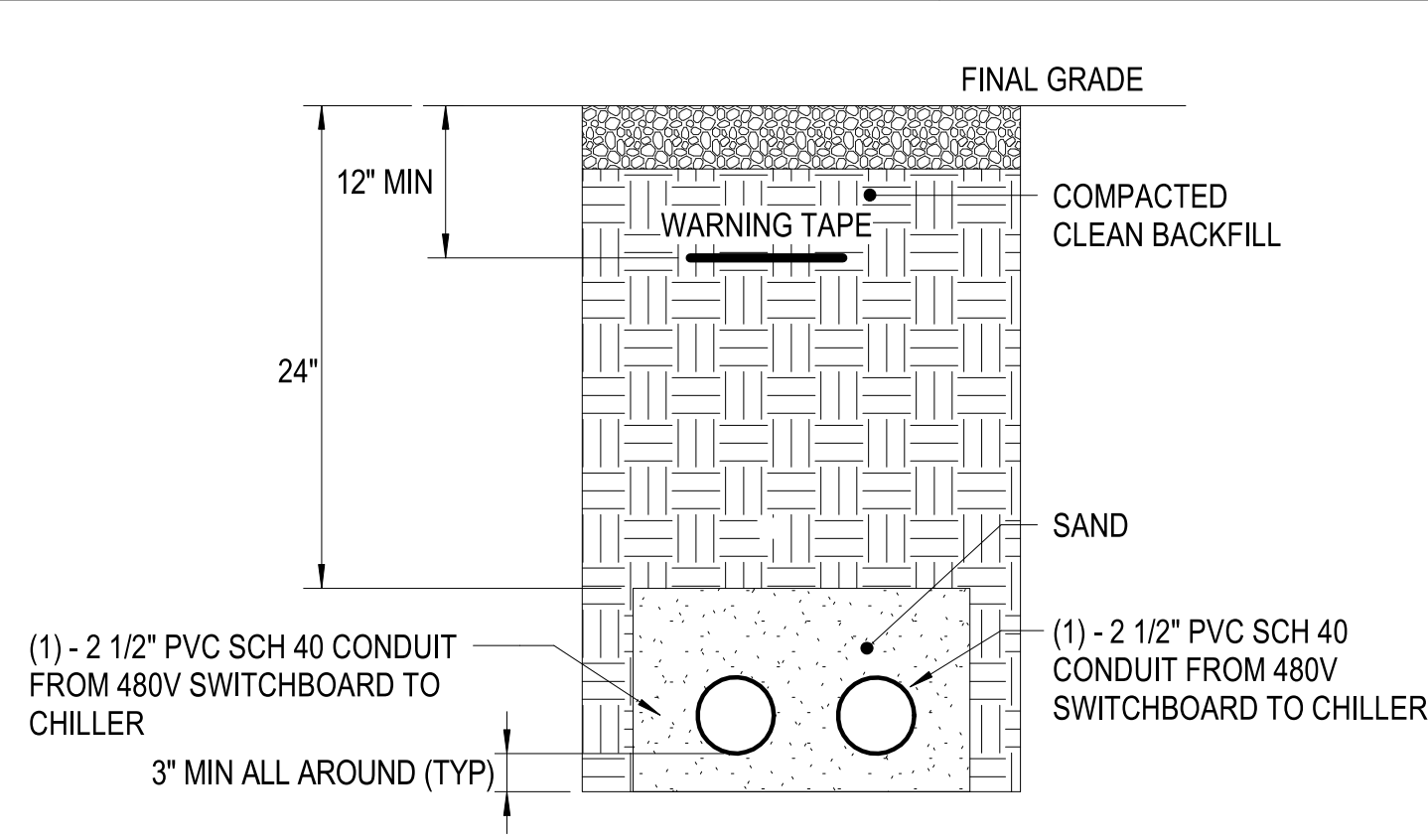
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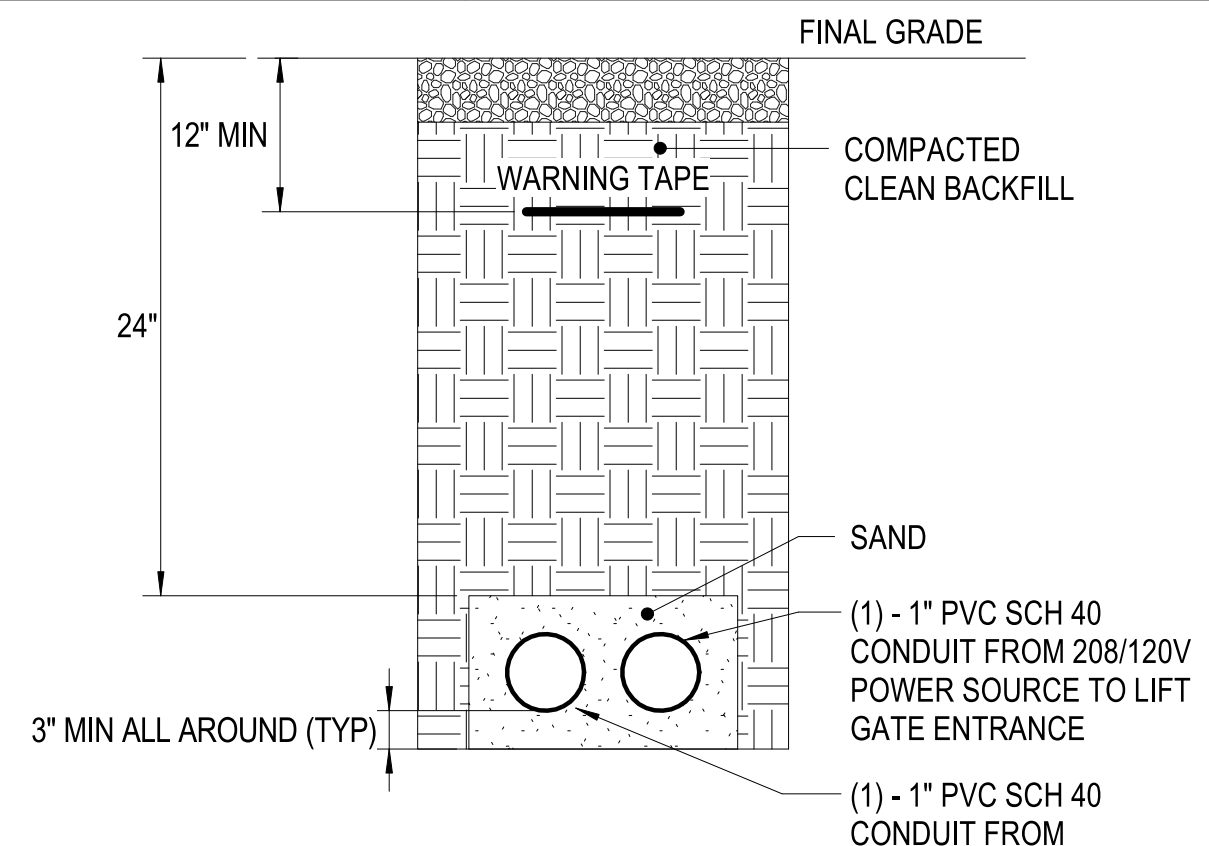
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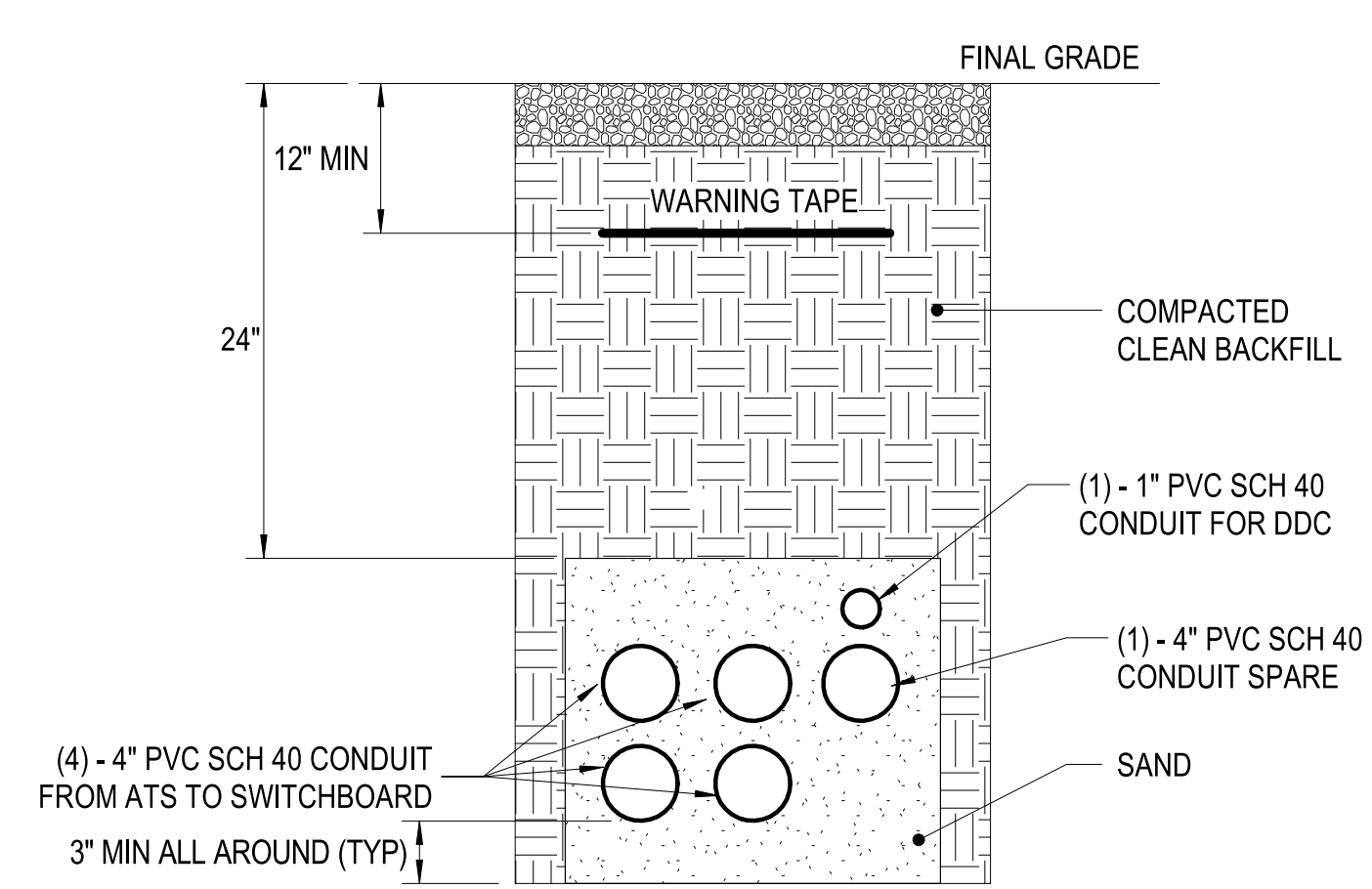
2-WAY CONCRETE ENCASED DUCTBANK
 SCALE:NTS ES101 **D1**



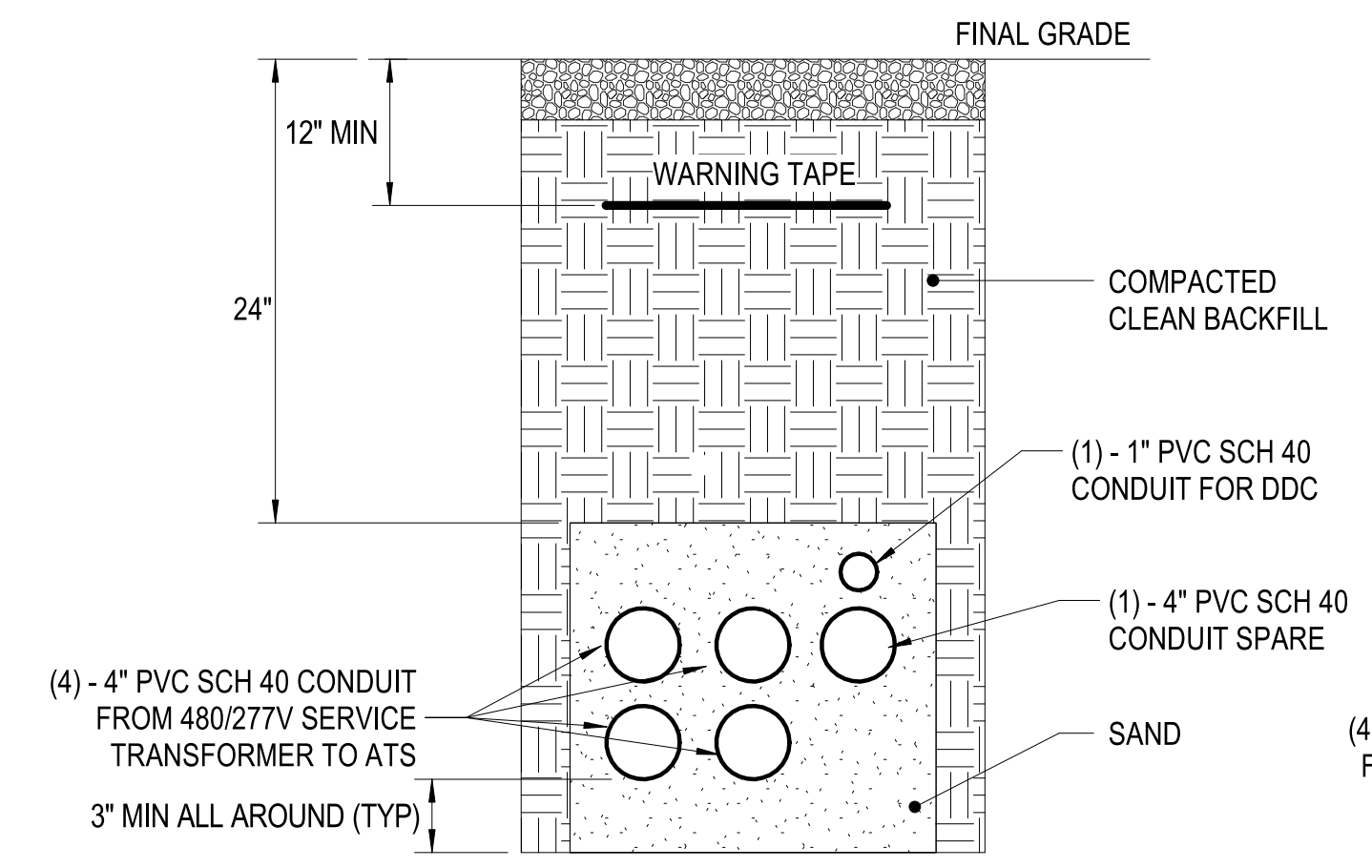
2-WAY DUCTBANK - CHILLER
 SCALE:NTS ES101 **D2**



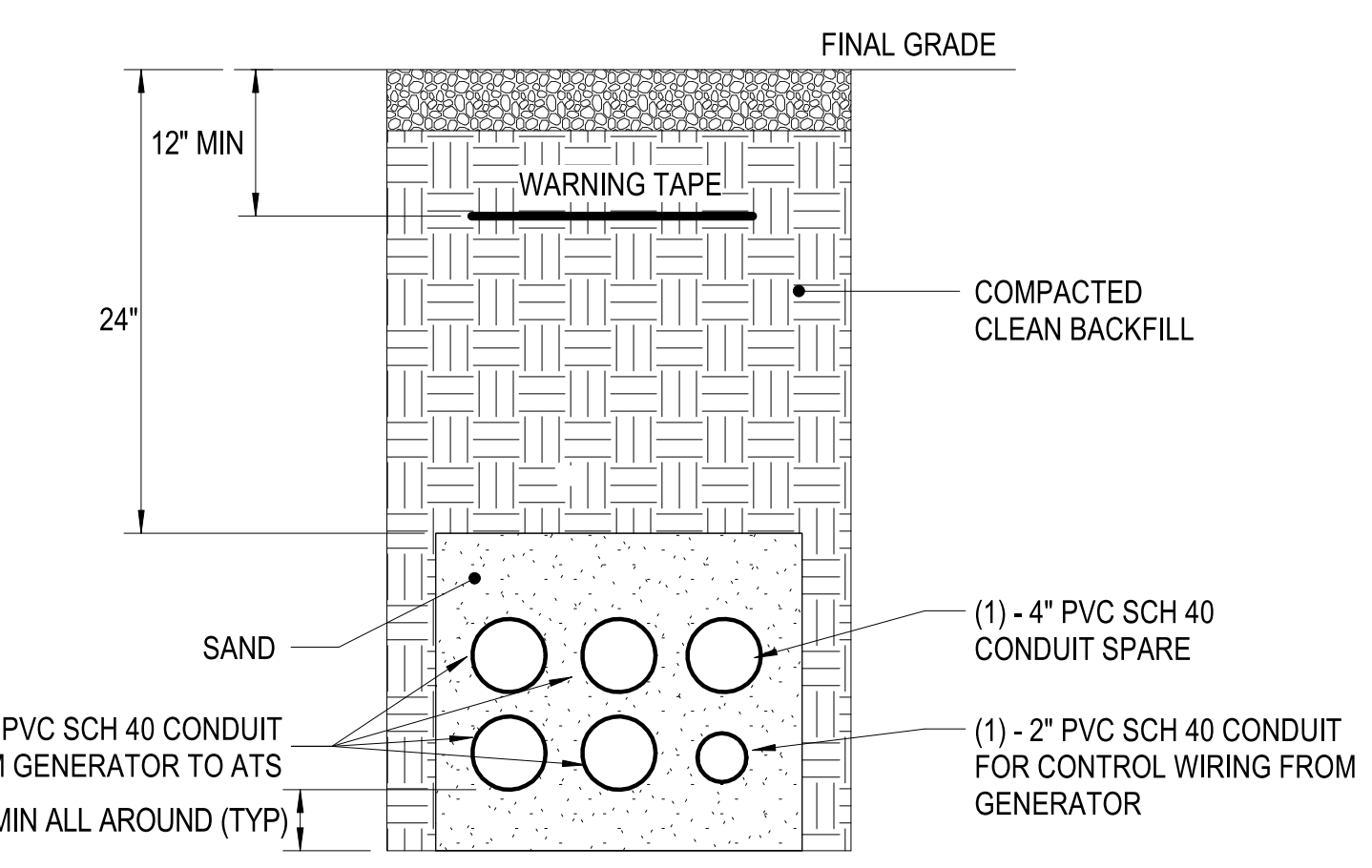
2-WAY DUCTBANK - LIFT GATE
 SCALE:NTS ES101 **D3**



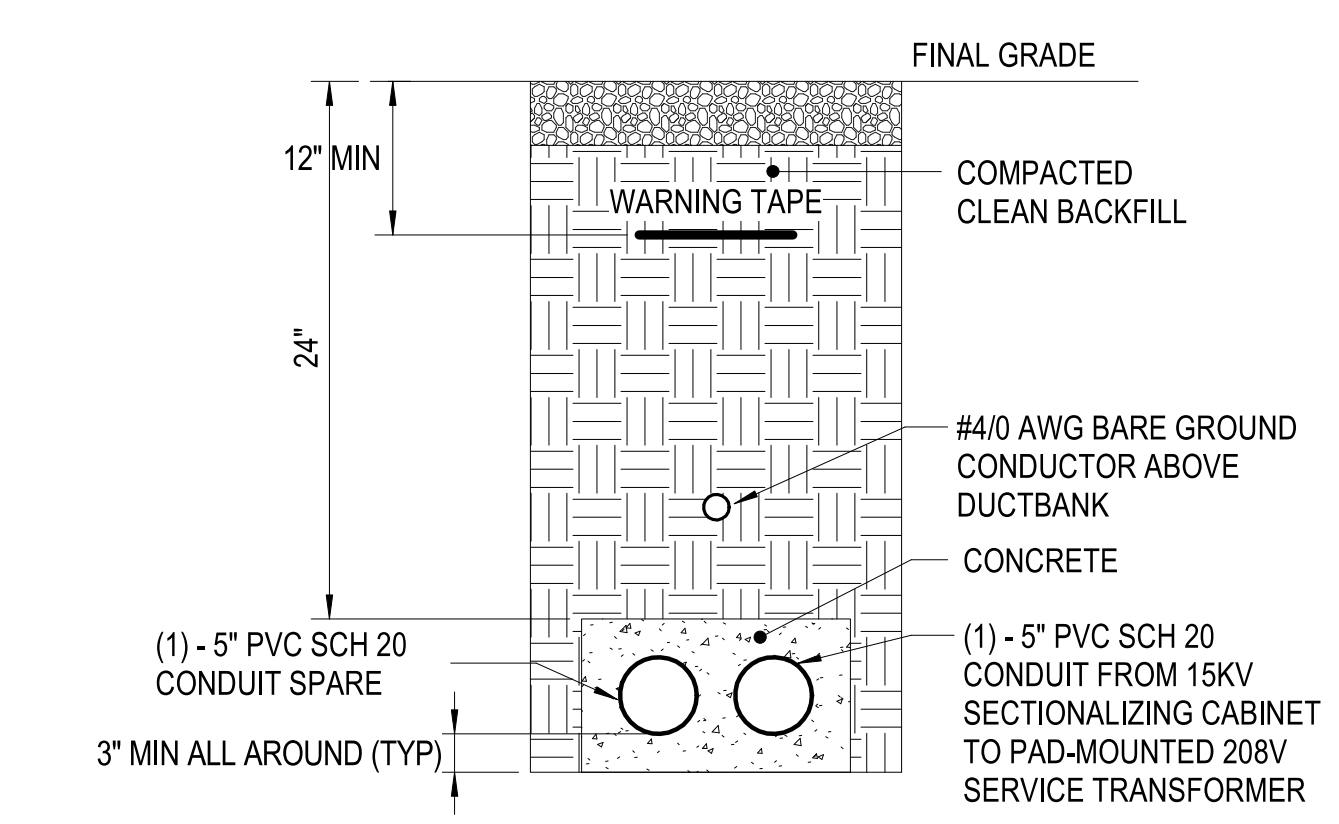
6-WAY DUCTBANK
 SCALE:NTS ES101 **B1**



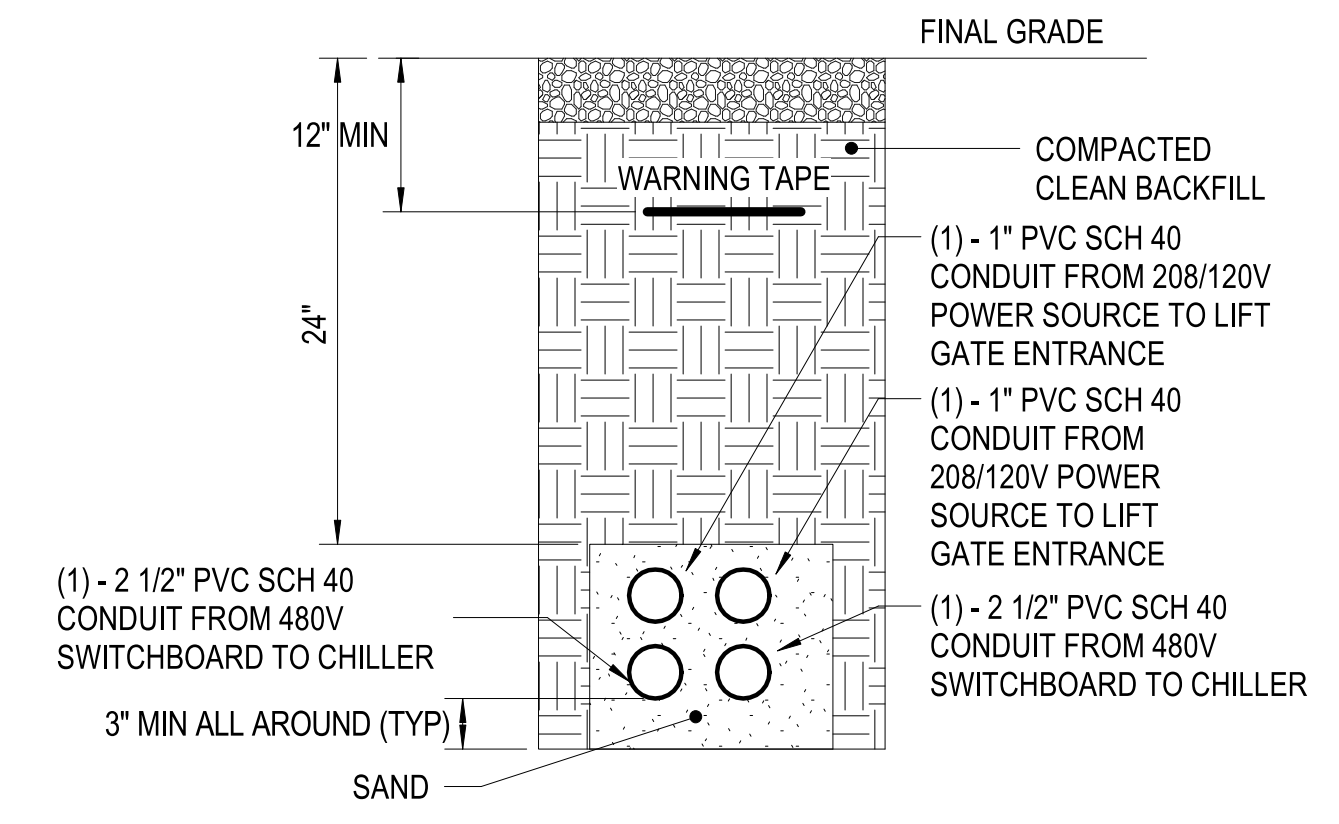
6-WAY DUCTBANK (A)
 SCALE:NTS ES101 **B2**



6-WAY DUCTBANK - GENERATOR
 SCALE:NTS ES101 **B3**



2-WAY CONCRETE ENCASED DUCTBANK (B)
 SCALE:1:15 ES101 **A1**



5-WAY DUCTBANK(B)
 SCALE:1:15 ES101 **A2**

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FILE NAME: BIM_360/HF PACKAGE 3P1338.MEF SIM CTR-1509092-E-01 PLOTTED: 5/28/2021 3:01:28 PM

APPR	DATE	SYN	DESCRIPTION
			
			
FOR COMMANDER NAVFAC ACTIVITY MARINE CORPS BASE CAMP LEJEUNE SATISFACTORY TO DATE DES SD DRW LAK CHK YPS PM BRANCH MANAGER CHIEF ENGINEER FIRE PROTECTION			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MID-ATLANTIC JACKSONVILLE, NC MCB CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT ELECTRICAL - SITE DETAILS			
SCALE: AS NOTED		PROJECT NO.: 1509092	
CONSTR. CONTR. NO. N40085-20-C-0059		NAVFAC DRAWING NO.	
SHEET OF		ES502	

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

UNCLASSIFIED

FILE NAME: BIM 360/HF PACKAGE 3P11338.MEF SIM CTR-1590892-E-1
PLOTTED: 5/28/2021 3:01:31 PM

POLE LINE MATERIAL LIST

1	FLAT STEEL BRACE (TWO PIECES)
2	MACHINE BOLT, 3/8" X LENGTH NEEDED WITH WASHER, NUT AND LOCKWASHER
3	8" WOOD CROSSARM WITH CROSS SECTION DIMENSIONS OF 3 1/2" X 4 1/2"
4	MACHINE BOLT, 5/8" X LENGTH NEEDED WITH WASHER, NUT AND LOCKWASHER
5	TIMBER CONNECTOR
6	LAGSCREW, 1/2" X 4"
7	ANGLE STEEL BRACE (TWO PIECES)
8	MACHINE BOLT, 1/2" X LENGTH NEEDED, WITH WASHER, NUT & LOCKWASHER
9	DEADEND BOX
10	STEEL PIN
11	PIN INSULATOR
12	GRID GAIN, USED ONLY WHEN THERE IS NO POLE GAIN
13	ANGLE STEEL BRACE (ONE PIECE)
14	10" WOOD CROSSARM WITH CROSS SECTION DIMENSIONS OF 3 1/2" X 4 1/2"
15	5/8" EYE NUT
16	5/8" EYE BOLT, LENGTH AS NEEDED, WITH WASHER, NUT & LOCKWASHER
17	EXTENSION LINK
18	BELL TYPE SUSPENSION INSULATOR WITH CONNECTING HARDWARE
19	STRAIN CLAMP
20	STEEL ANGLE PIN
21	CLUSTER MOUNTING BRACKET, STEEL
22	TRANSFORMER GROUNDING CONNECTION
23	STIRRUP
24	SECONDARY LEAD SUPPORT BRACKET
25	ADAPTER PLATE FOR CLUSTER MOUNTING
26	CLEVIS BRACKET FOR SPOOL INSULATOR
27	SPOOL INSULATOR
28	U BOLT CLAMP
29	PREFORMED GUY GRIP
30	GUY HOOK
31	GUY STRAIN INSULATOR
32	GUY WIRE, SIZE AS SPECIFIED
33	#4 WP CU. SOFT DRAWN GROUND WIRE
34	GROUND CLAMP
35	CONDUIT COUPLING
36	CONDUIT BEND
37	INSULATED BUSHING
38	PERFORATED STRAPPING, 1-1/2" WIDE
39	HOT LINE CLAMP
40	GANG OPERATED ISOLATION SWITCH, AS SPECIFIED
41	SURGE ARRESTER, AS SPECIFIED
42	POLE TOP PIN (RIDGE PIN) - 24 INCHES LONG
43	CROSSARM ANGLE PIN
44	ANGLE POLE TOP PIN
45	WEATHERPROOF SOFT DRAWN WIRE-SIZE (a) TO MATCH OR EXCEED AMPACITY OF CONNECTING CABLE, OR (b) AT 125% OF TRANSFORMER FULL LOAD CURRENT, BUT NOT LESS THAN NO. 4 AWG

POLE LINE MATERIAL LIST

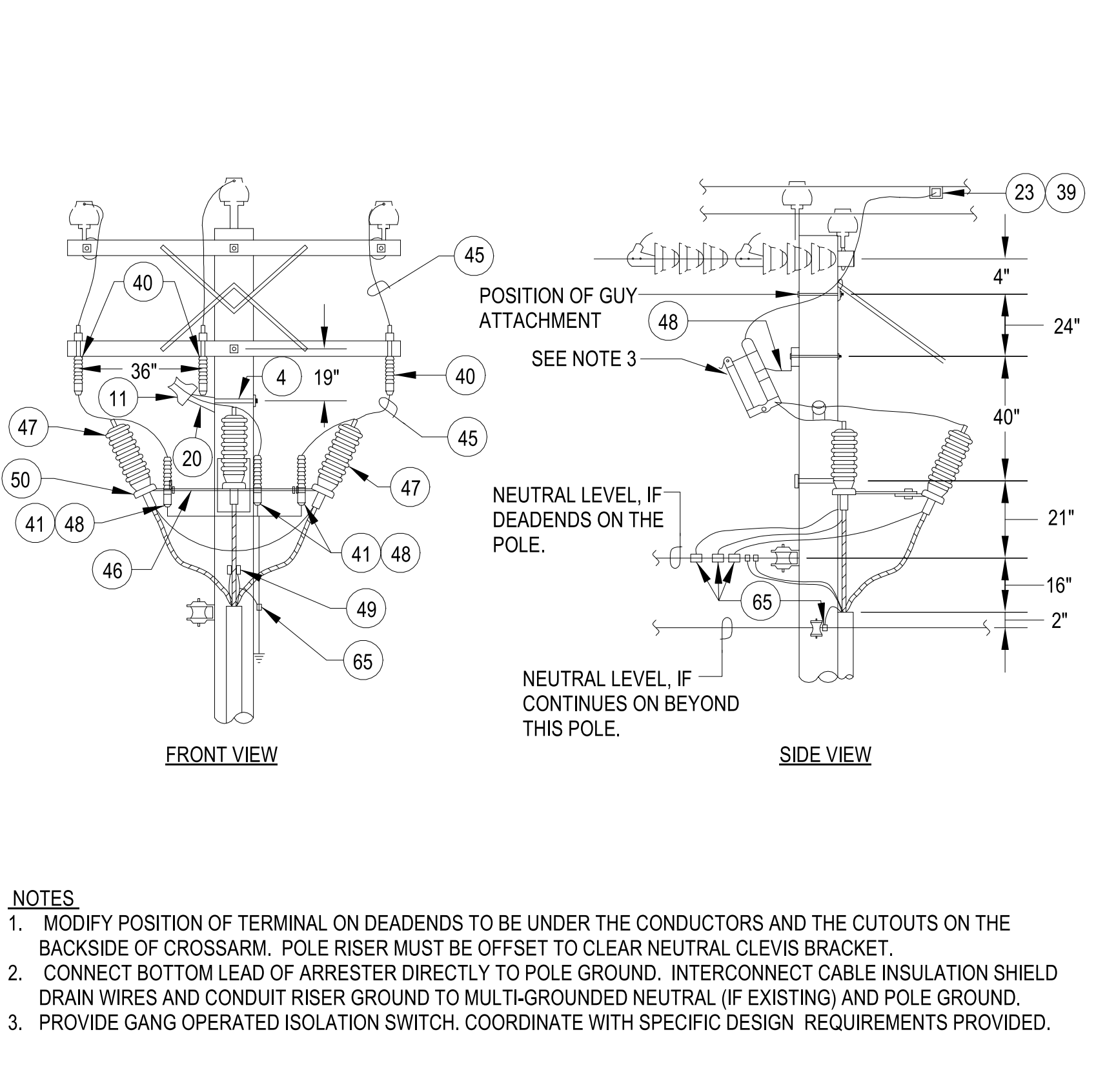
SKETCH DATE: JUNE 2002 STYLE: OH-1.5

POLE LINE MATERIAL LIST

46	TRI-MOUNT BRACKET
47	TERMINATOR
48	MOUNTING BRACKET
49	CABLE GRIP HANGER
50	HOSE CLAMP
51	STUD, 3/4" X 1-3/4"
52	LINE POST INSULATOR
53	TRIPLE INSULATOR BRACKET
54	ANGLE CLAMP
55	INSULATOR, LINE POST CLAMP
56	4" CROSSARM
57	CROSSARM GAIN BRACKET
58	PULLEY BRACKET
59	WEDGE CLAMP
60	MIDSPAN SERVICE CLAMP
61	STUD, 7"
62	SADDLE, ANGLE
63	SADDLE CROSSARM
64	FITTING, POLE TOP
65	CONNECTOR
66	SUSPENSION CLAMP
67	TIE, SERVICE CABLE
68	54" FIBERGLASS STRAIN INSULATOR
69	PVC RISER SHIELD
70	PVC EXTENSION SHIELD
71	PVC BACK PLATE
72	8" WOOD CROSSARM WITH CROSS SECTION DIMENSIONS OF 4 3/4" X 5 3/4"
73	10" WOOD CROSSARM WITH CROSS SECTION DIMENSIONS OF 4 3/4" X 5 3/4"
74	BACK-UP CURRENT LIMITING FUSE

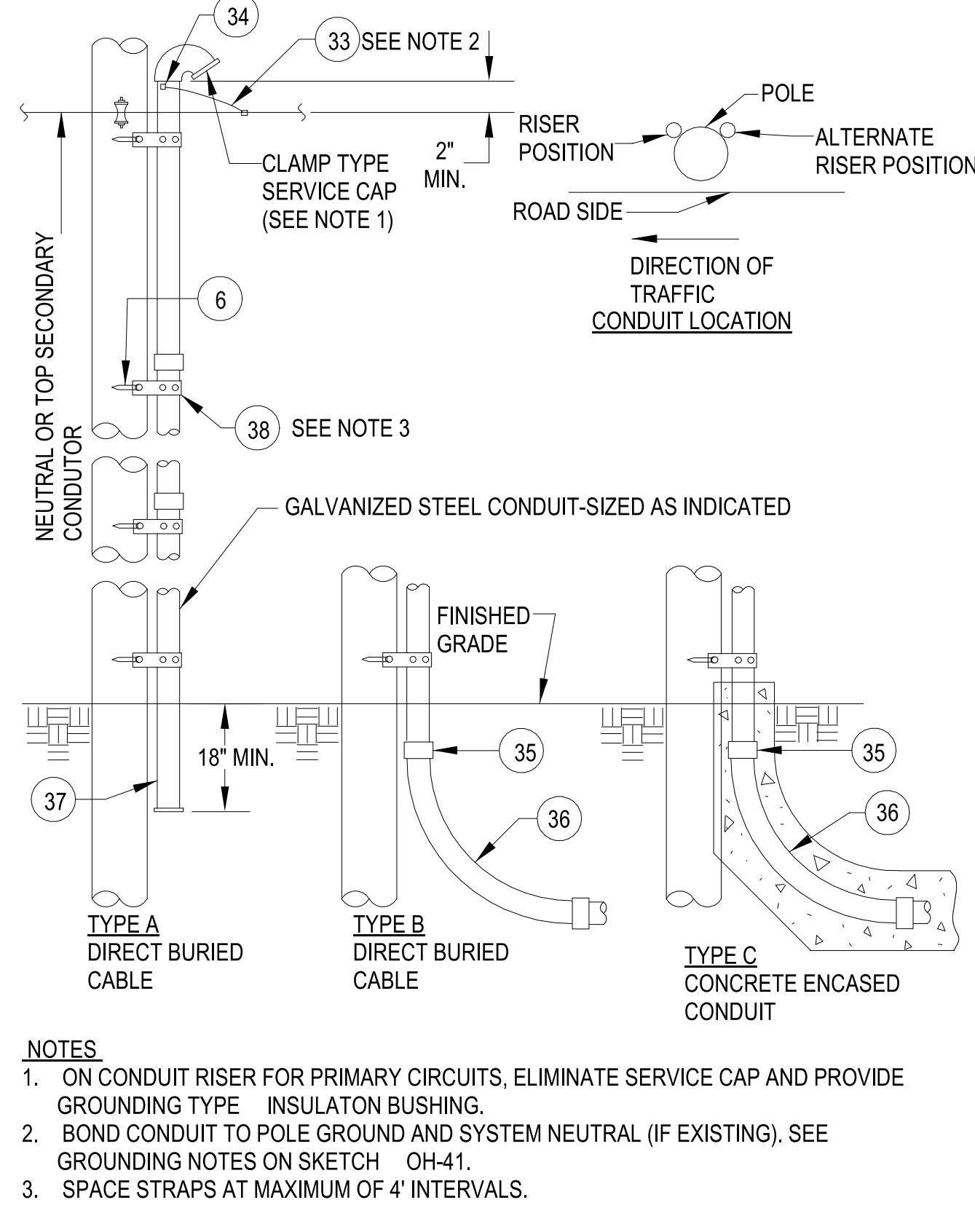
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SKETCH DATE: JUNE 2002 STYLE: OH1.5A



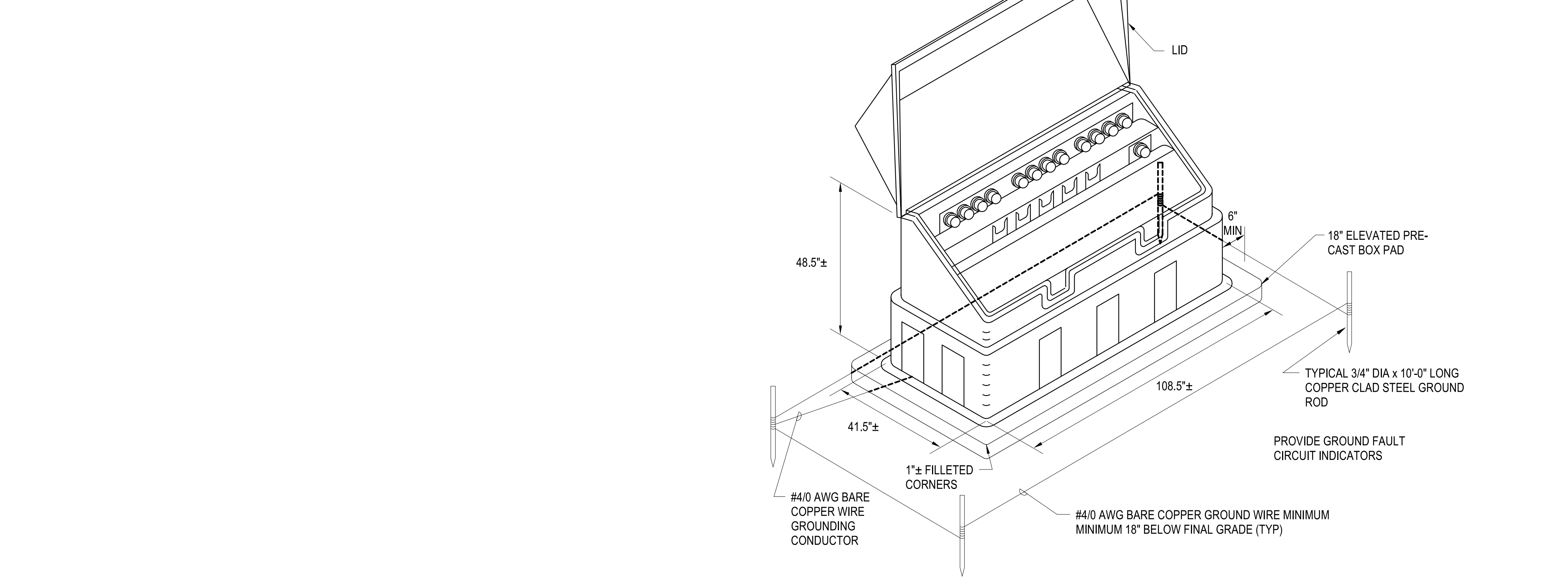
U.G. TERMINAL (0-25kV)

SKETCH DATE: JUNE 2002 STYLE: OH-31



CONDUIT RISER (SIZE & TYPE AS INDICATED)

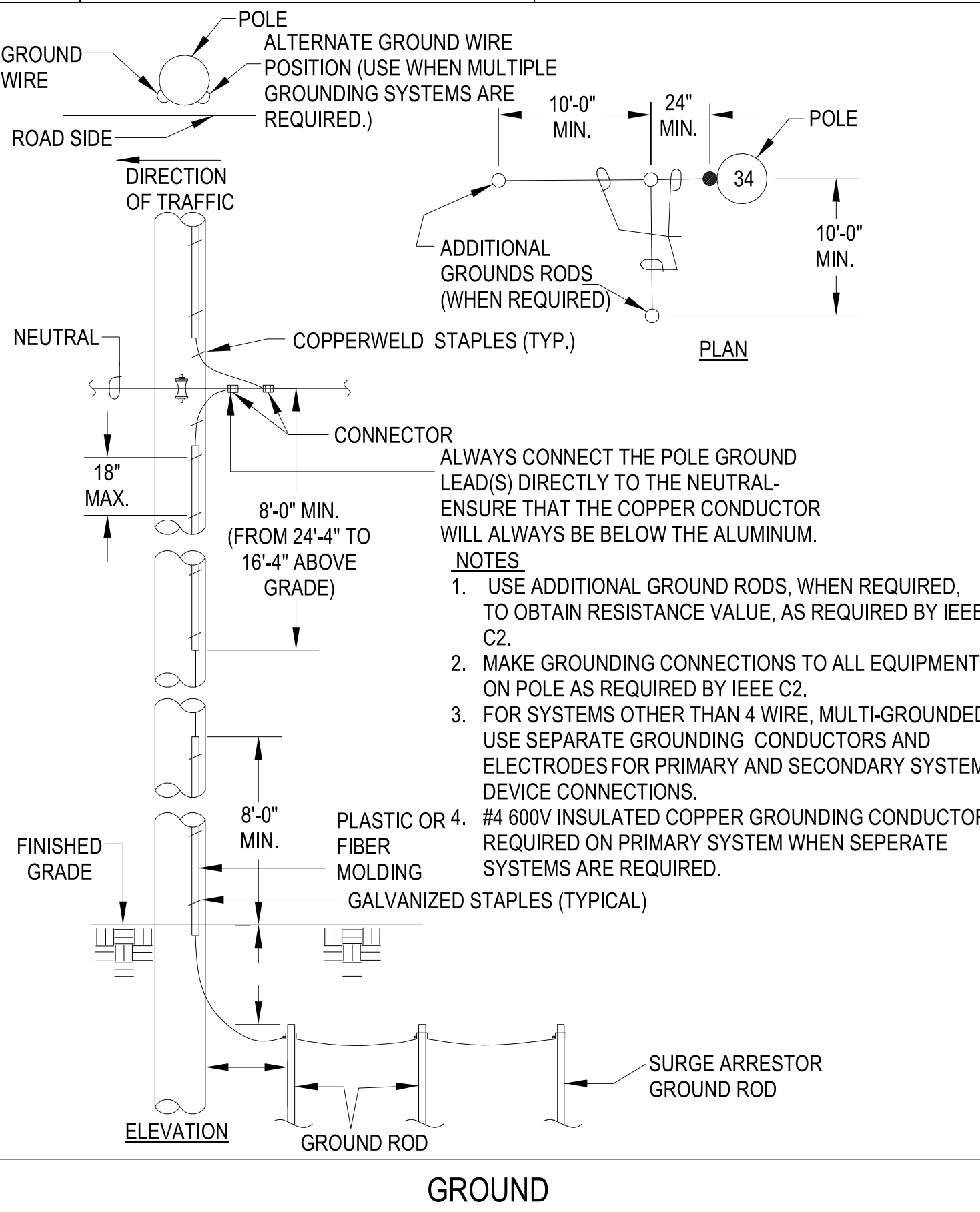
SKETCH DATE: JUNE 2002 STYLE: OH-35



TYPICAL SECTIONALIZING CABINET

SCALE:NENTS

SKETCH DATE: JUNE 2002 STYLE: OH-41



GROUND

SKETCH DATE: JUNE 2002 STYLE: OH-41

APPR DATE

SYN DESCRIPTION

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108 A/E INF/PS
APPROVED

Michael Baker INTERNATIONAL

FOR COMMANDER NAVFAC
ACTIVITY: MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
JACKSONVILLE, NC
NAVFAC DRAWING NO. P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT
ELECTRICAL - SITE DETAILS

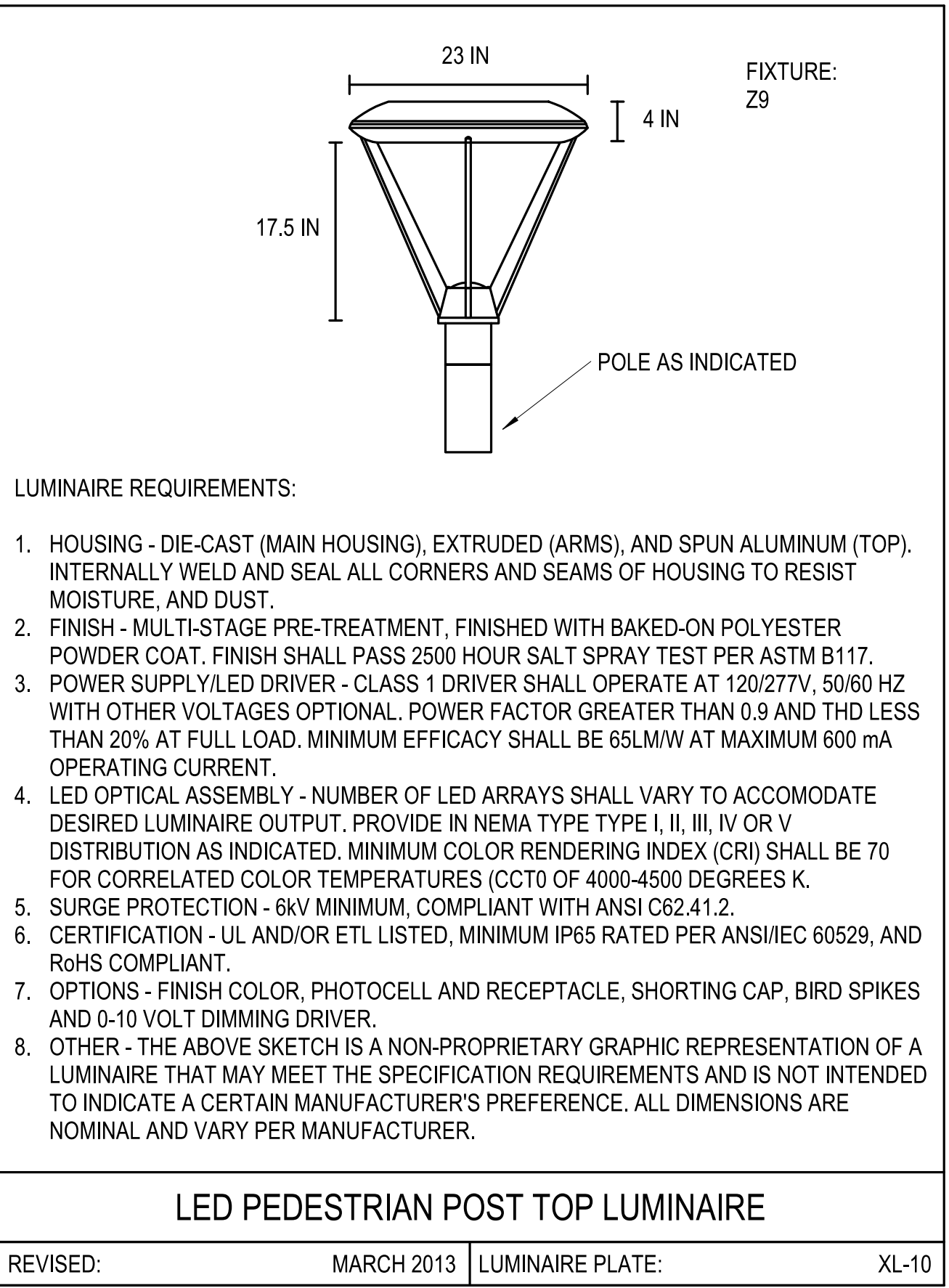
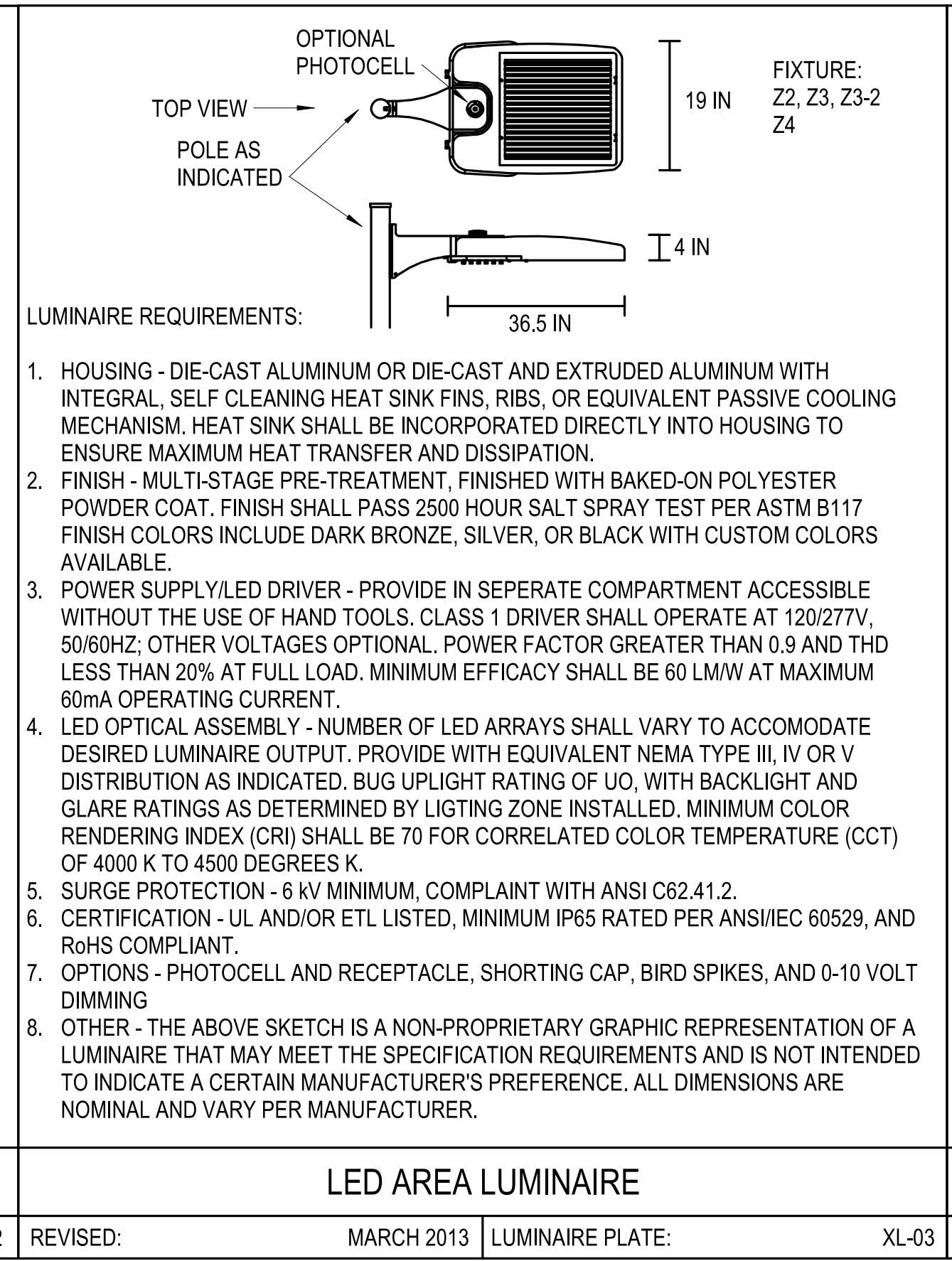
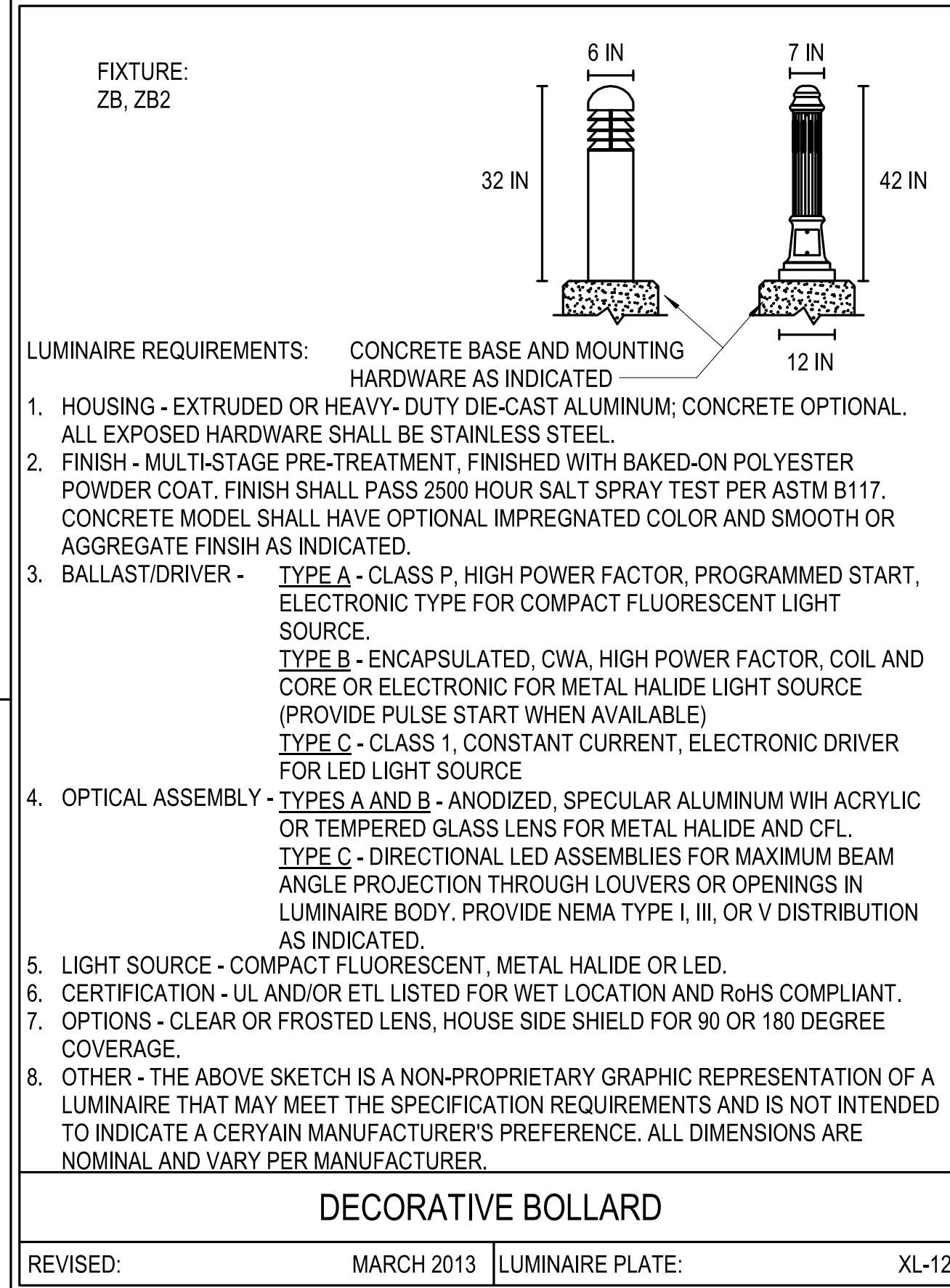
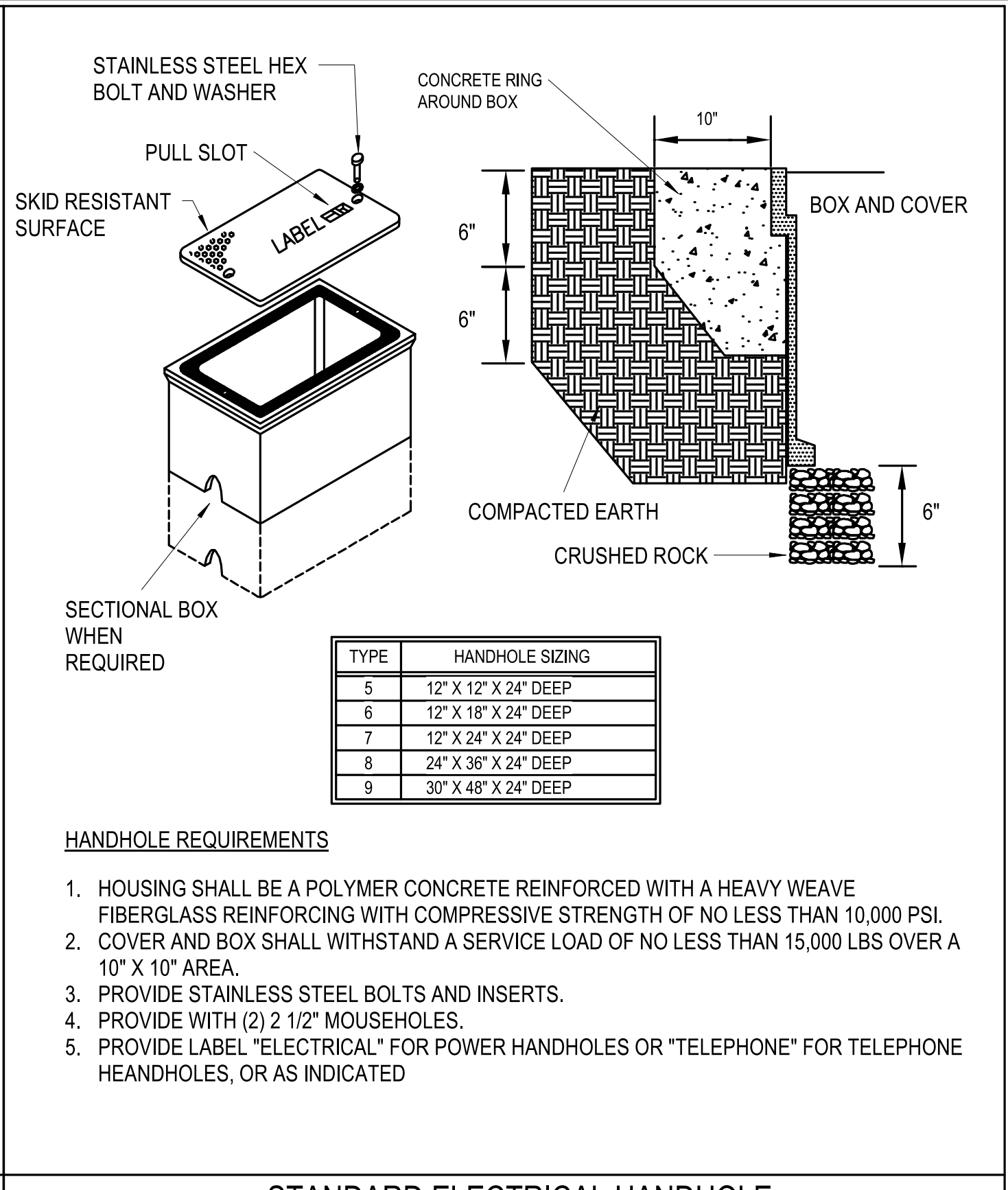
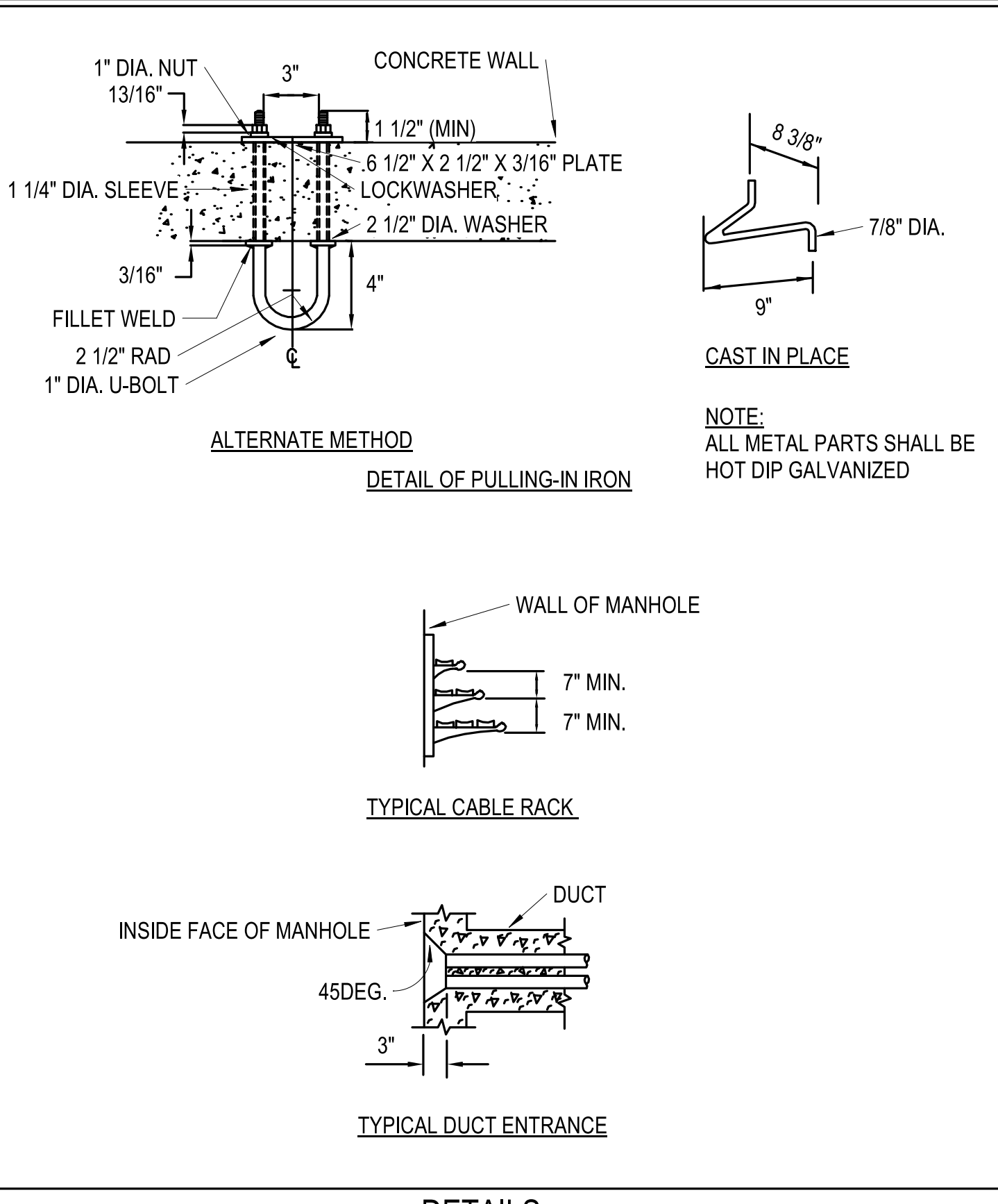
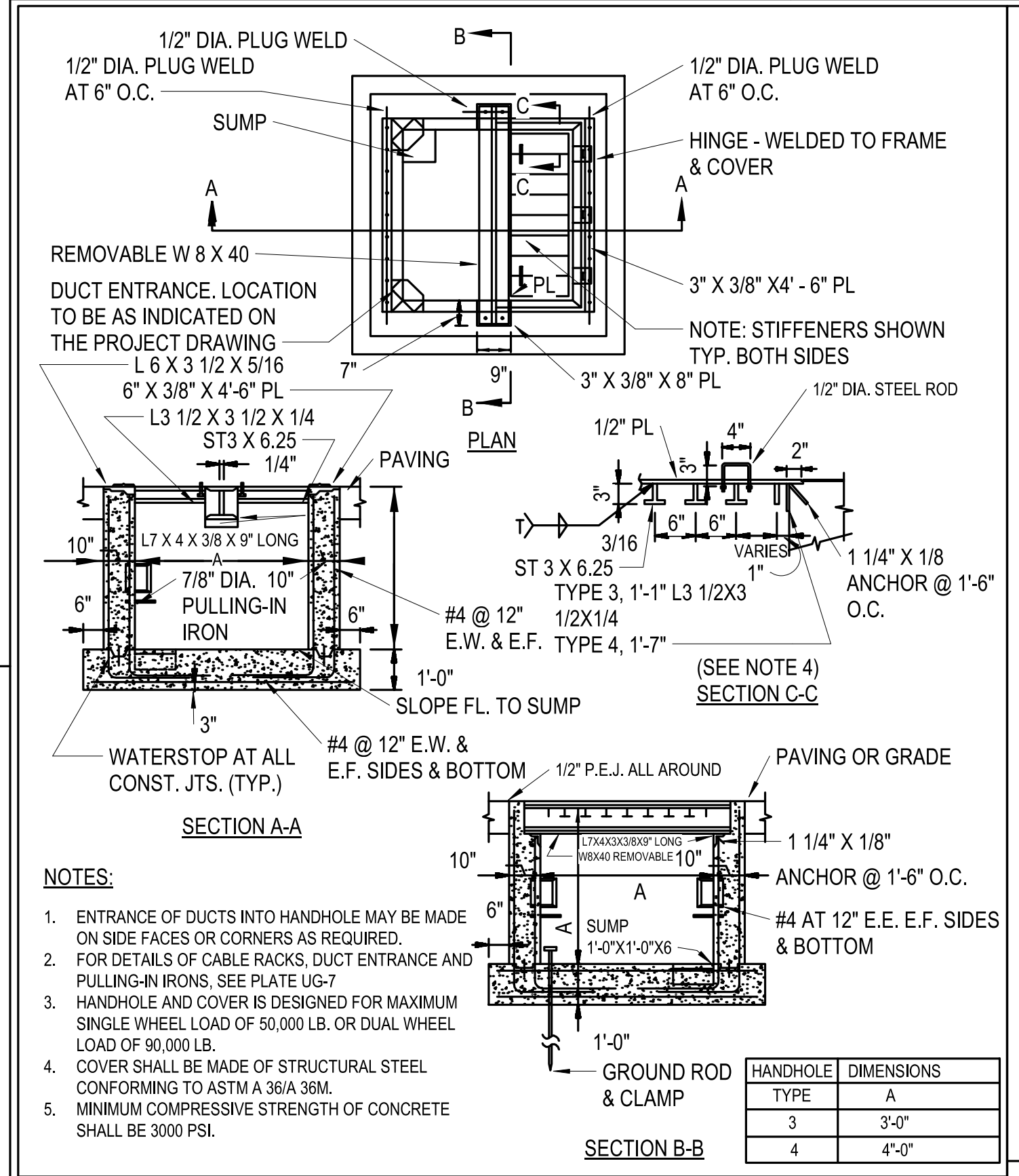
SCALE: AS NOTED
EPROJCT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF

ES504

DP2 SUBMISSION - P1338 BUILDING -PRE-FINAL SUBMISSION

D
C
B
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D
C
B
A



FILE NAME: BIM_360/HF PACKAGE_3PT1338_MEF_SIM_CTR-1509092-E-41 PLOTTED: 5/28/2021 3:01:34 PM

APPROVED: _____ DATE: _____

SYMBOL DESCRIPTION

FOR COMMANDER NAVFAC

ACTIVITY: MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE

DESIGN: SD DRAWN: LAK CHECKED: YPS

BRANCH MANAGER: _____

CHIEF ENGINEER: _____

FIRE PROTECTION: _____

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROSC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC
M/CB CAMP LEJEUNE JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT
ELECTRICAL - SITE DETAILS

SCALE: AS NOTED
PROJECT NO.: 1509092
CONSTRUCTION CONTROL NO.: N40085-20-C-0059
NAVFAC DRAWING NO.: _____
SHEET _____ OF _____

ES505

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

UNCLASSIFIED

UNCLASSIFIED

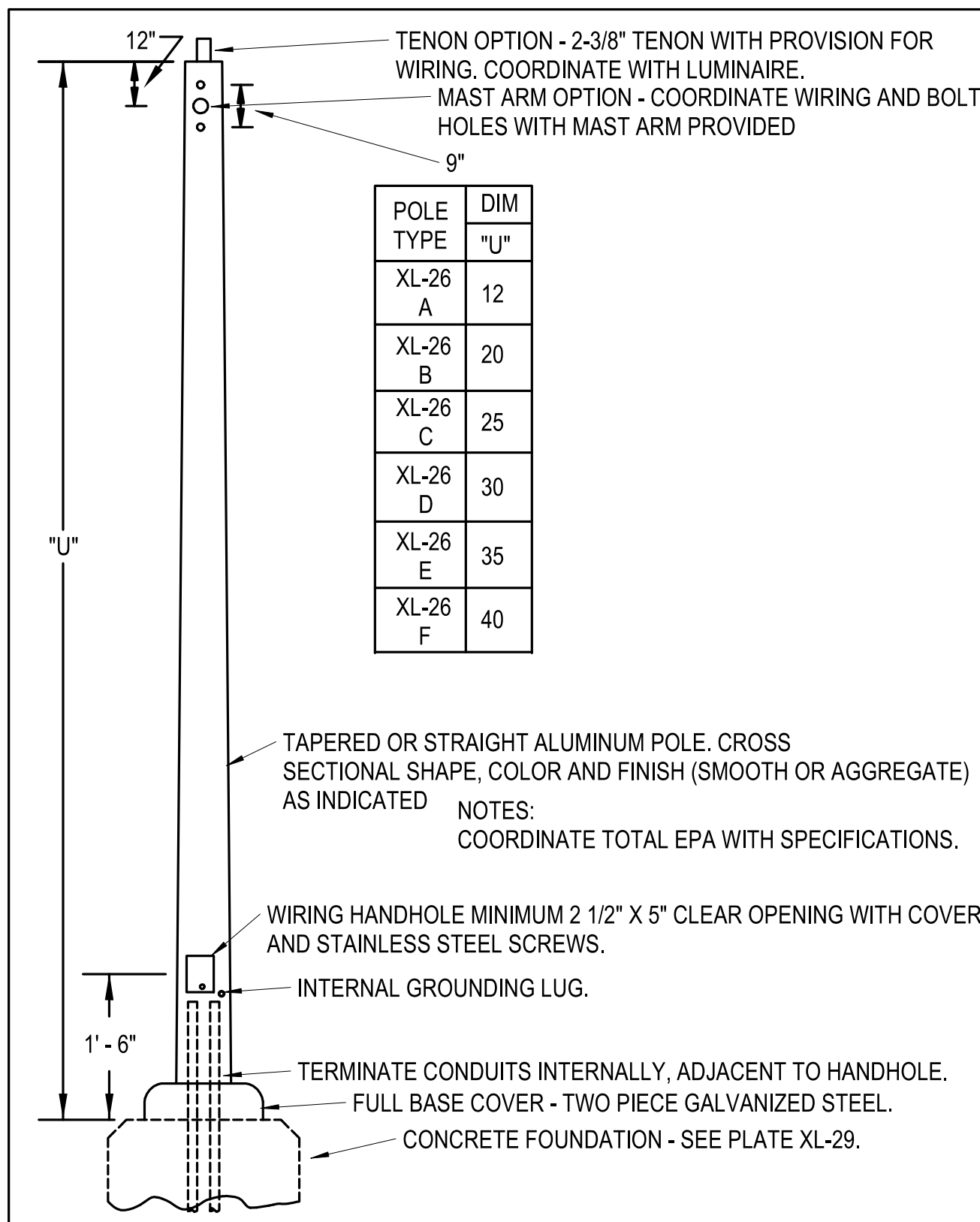
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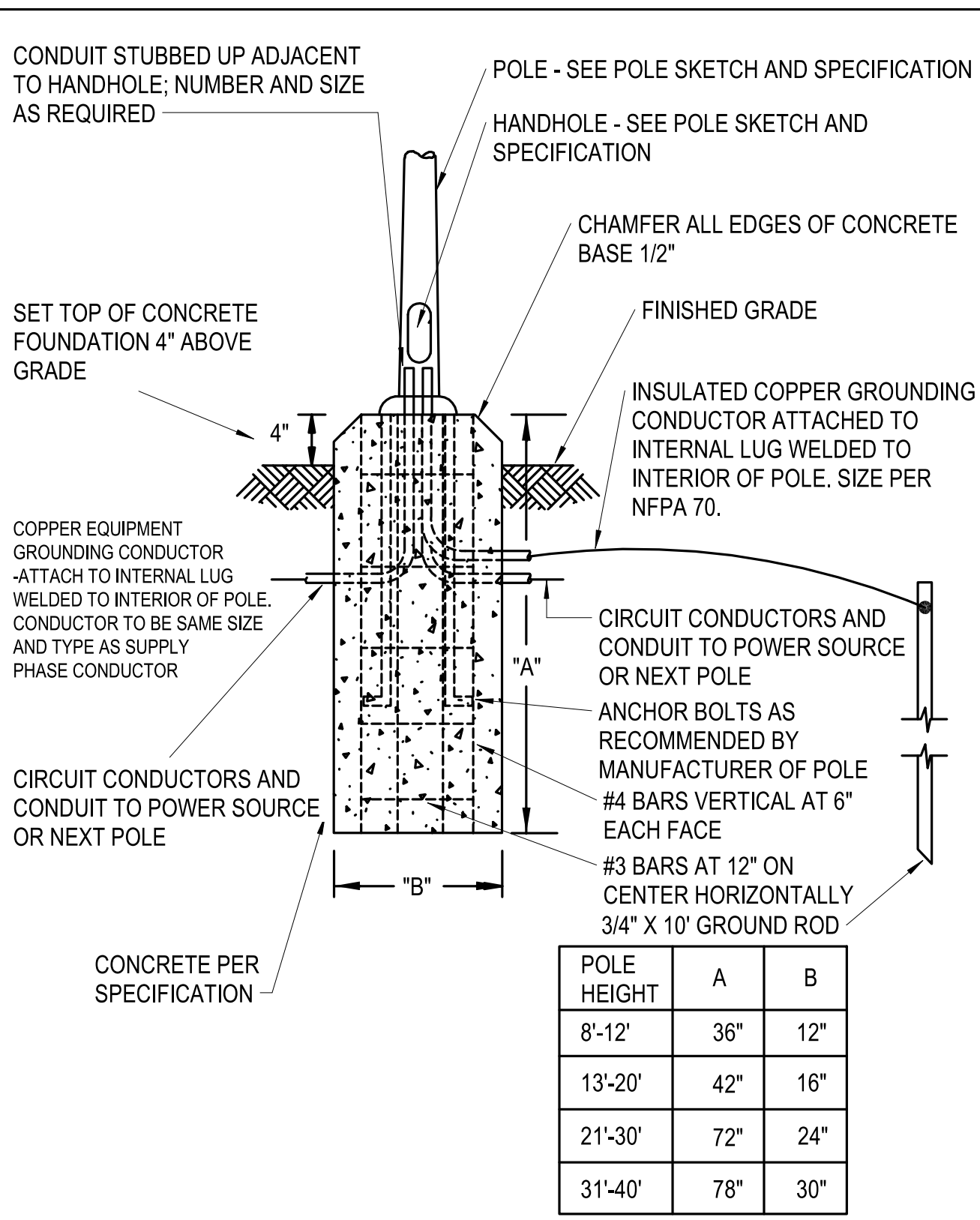
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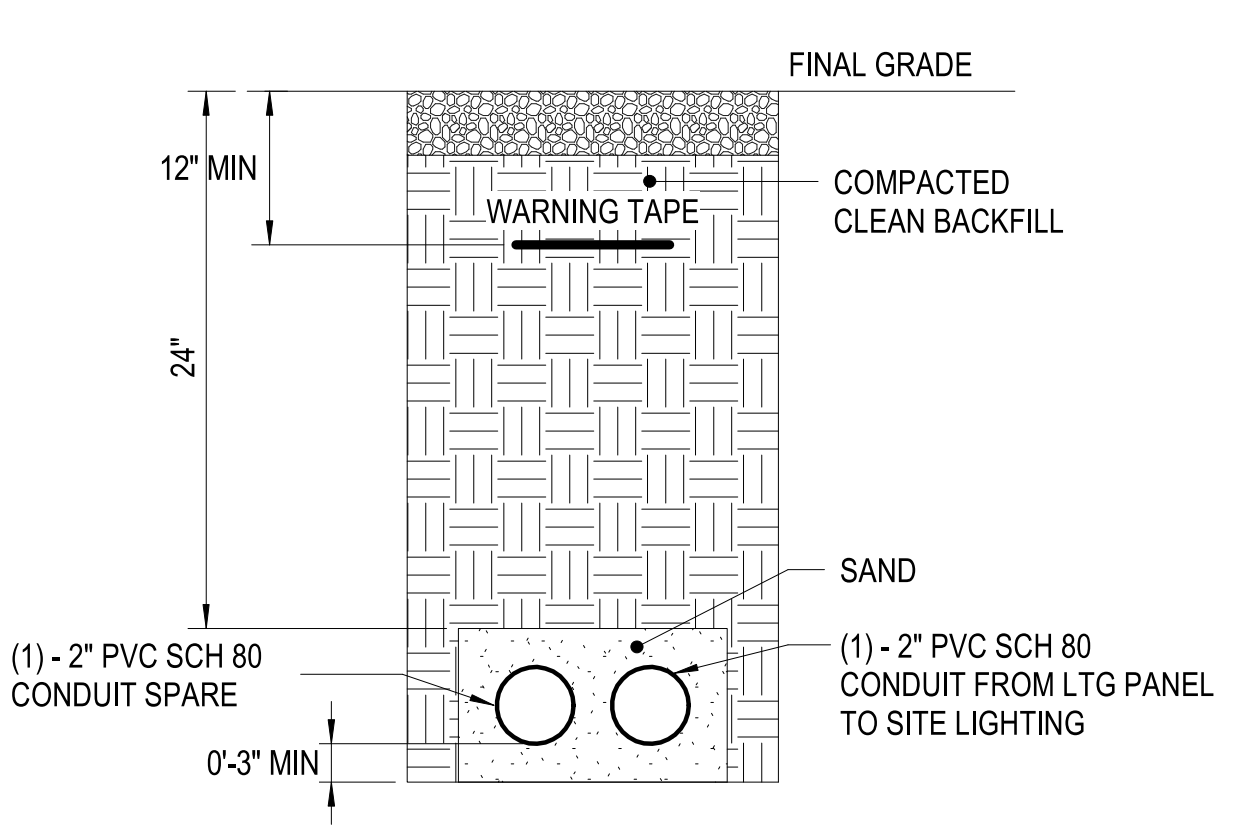
ANCHOR BASE ALUMINUM POLE

REVISED: MARCH 2013 LUMINAIRE PLATE: XL - 28



ANCHOR BASE POLE FOUNDATION

REVISED: MARCH 2013 LUMINAIRE PLATE: XL - 29



2-WAY DUCTBANK - SITE LIGHTING

SCALE:NTS

C4

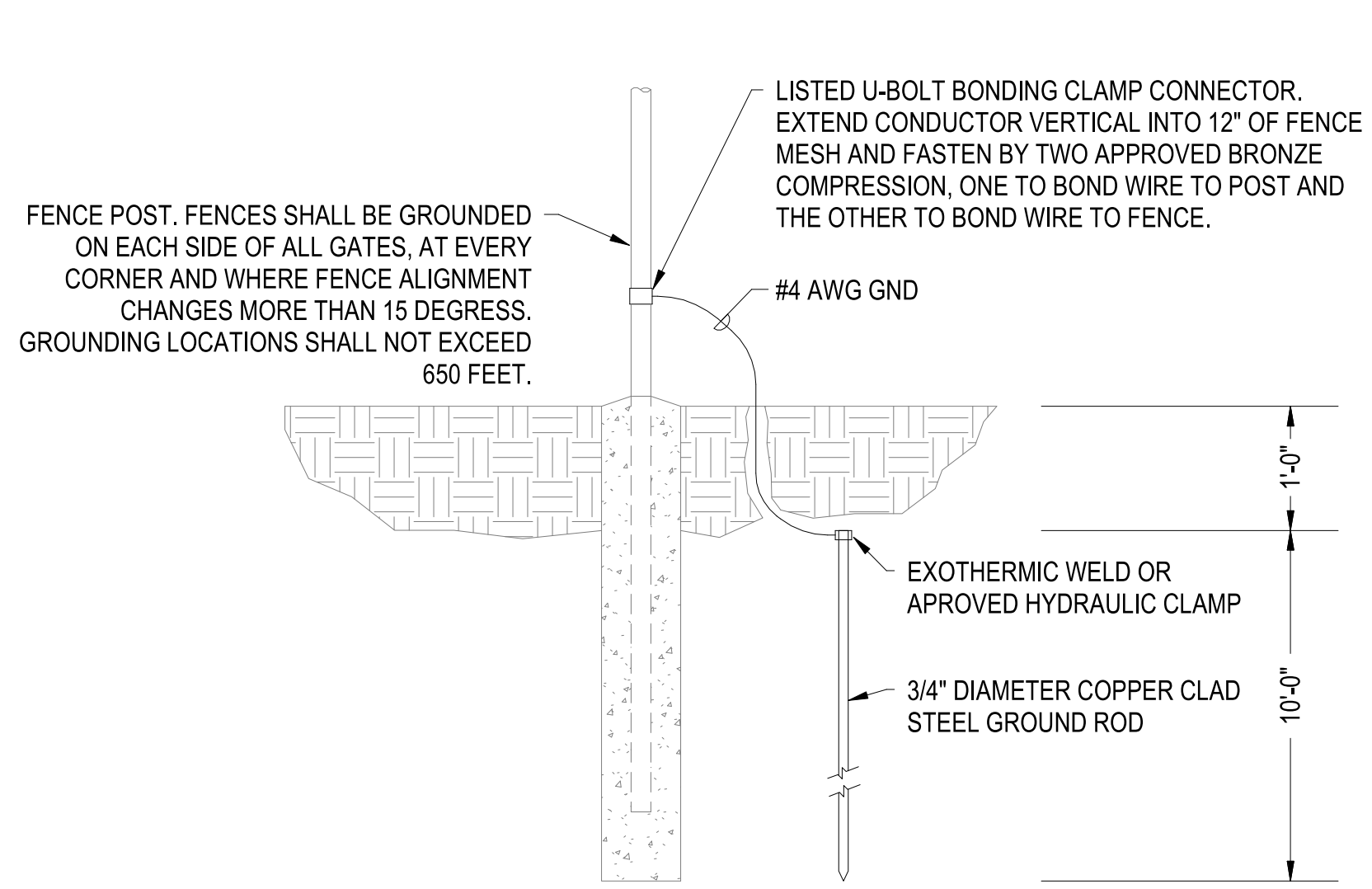
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PLOTTED: 5/28/2021 3:01:35 PM

1-WAY CONDUIT - SITE LIGHTING

SCALE:1 : 15

A1

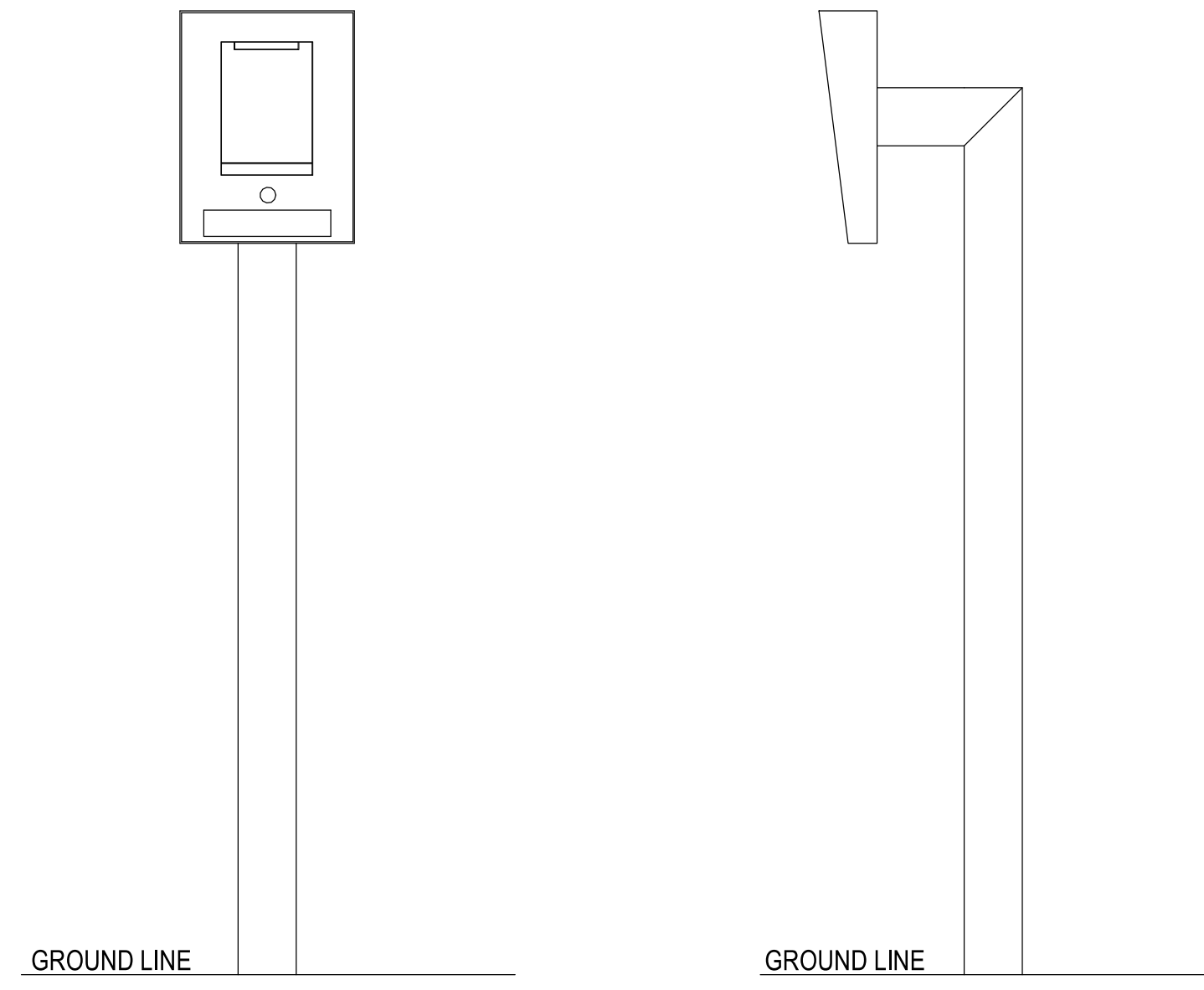


FENCE GROUNDING DETAIL

SCALE:NTS

A2

- NOTES:
1. PLACE GROUND ROD NOT CLOSER THAN 2 FEET FROM FENCE POST AND NOT MORE THAN 8 FEET FROM FENCE POST.
 2. EACH GATE SECTION SHALL BE BONDED TO ITS GATEPOST BY 1 1/8" X 1" FLEXIBLE BRAIDED COPPER STRAP AND GROUND POST CLAMPS.



ACS PEDESTAL SECURITY DETAIL

SCALE:NTS

A4

- NOTES:
1. CONTRACTOR SHALL PLACE CARD READER SUCH THAT THE FACE OF THE READERS ARE NO LESS THAN 6" FROM THE FACE OF CURB, OR IF GIVEN, AT A DISTANCE SPECIFIED BY THE MANUFACTURER.
 2. PROVIDE CONCRETE PAD OR SET IN CONCRETE FOR PEDESTAL INSTALLATION.

APPROVED	DATE	APPR
SYN	DESCRIPTION	
Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED		
FOR COMMANDER NAVFAC		
ACTIVITY MARINE CORPS BASE CAMP LEJEUNE		
SATISFACTORY TO DATE		
DES SD	DRW LAK	CHK YPS
PM		
BRANCH MANAGER		
CHIEF ENGINEER		
FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND JACKSONVILLE, NC JACKSONVILLE, NC MCB CAMP LEJEUNE P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT ELECTRICAL - SITE DETAILS		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROIC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC JACKSONVILLE, NC MCB CAMP LEJEUNE P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT ELECTRICAL - SITE DETAILS		
SCALE:	AS NOTED	
EPROJCT NO.:	1509092	
CONSTR. CONTR. NO.:	N40085-20-C-0059	
NAVFAC DRAWING NO.:		
SHEET	OF	
ES506		

UNCLASSIFIED

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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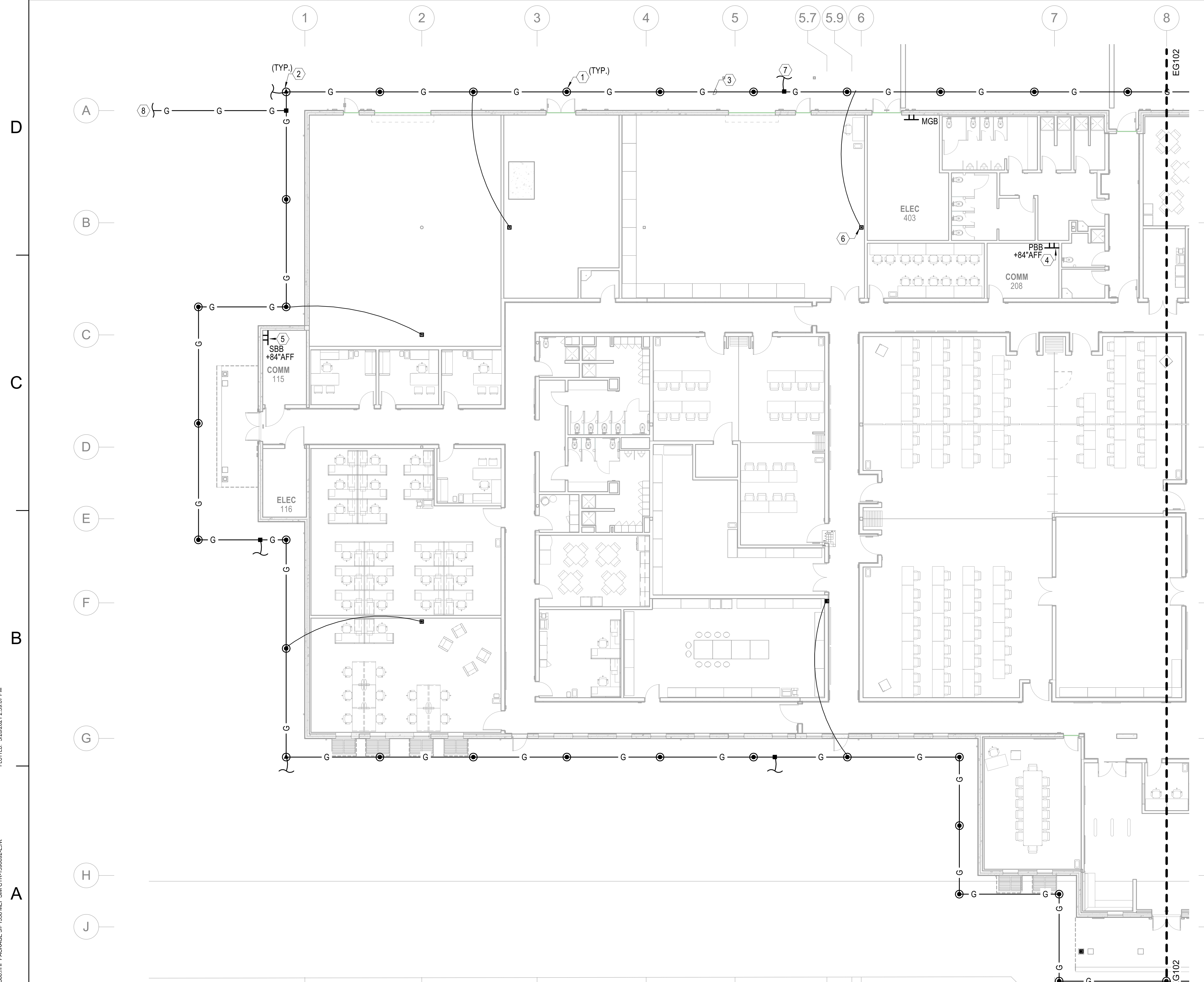
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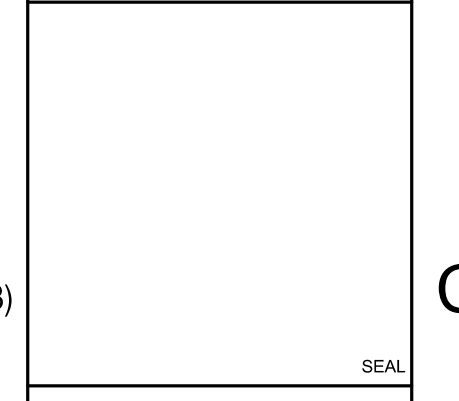
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- GENERAL NOTES**
- SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
 - SEE SHEET EG501 FOR GROUNDING DETAILS
 - SEE SHEETS EG103 AND EG104 FOR LIGHTNING PROTECTION PLAN

- KEYNOTES**
- 3/4" DIAMETER BY 10' LONG COPPER CLAD GROUND ROD.
 - GROUND TEST WELL STATION. SEE DETAIL C4 ON SHEET EG501.
 - #4/0 AWG BARE COPPER GROUND LOOP INSTALLED 3' MINIMUM TO 10' MAXIMUM FROM BUILDING FOUNDATION AND BEYOND THE BUILDING PERIMETER.
 - PROVIDE CONNECTION TO MAIN GROUNDING BUS (MGB) IN ELECTRICAL ROOM 403 WITH #4/0 AWG BARE COPPER GEC. SEE DETAIL 1 ON SHEET EG501.
 - TELECOMMUNICATION SECONDARY GROUNDING BUSBAR (SBB) TO BE CONNECTED TO TELECOMMUNICATION PRIMARY GROUNDING BUSBAR (PBB) IN ROOM 208. #4/0 AWG BARE COPPER GROUNDING WIRE TO BE USED FOR CONNECTION.
 - EXOTHERMIC WELD CONNECTION TO BUILDING STEEL.
 - DOWN CONDUCTOR CONNECTION FROM ROOF LIGHTNING PROTECTION SYSTEM. DOWN CONDUCTORS SHALL RUN DOWN THE EXTERIOR OF THE BUILDING WALLS, PROTECTED BY SCH. 40 PVC CONDUIT. COORDINATE WITH LIGHTNING PROTECTION PLANS ON SHEETS EG103 AND EG104.
 - #4/0 AWG BARE COPPER GROUND CABLE RUN LENGTH OF NEW FENCE. TIE FENCE POST TO GROUND WIRE VIA GROUND ROD. SEE DETAIL A2 ON SHEET ES506.

SYMBOL	DESCRIPTION	DATE	APPROVED



FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE
 SATISFACTORY TO DATE
 DES SD DRW LAK CHK YPS
 PM
 BRANCH MANAGER
 CHIEF ENGINEER
 FIRE PROTECTION

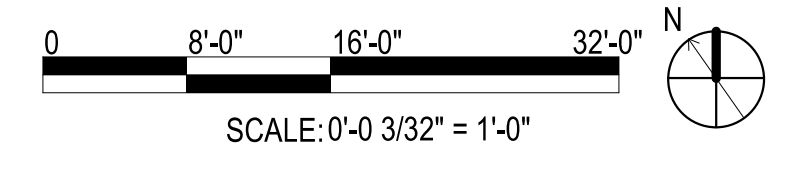
DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 MID-ATLANTIC
 JACKSONVILLE, NC
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 ELECTRICAL - GROUNDING PLAN

SCALE: AS NOTED
 EPROJECT NO.: 1500892
 CONSTR. CONTR. NO.
 N40085-20-C-0059
 NAVFAC DRAWING NO.
 SHEET OF

EG101

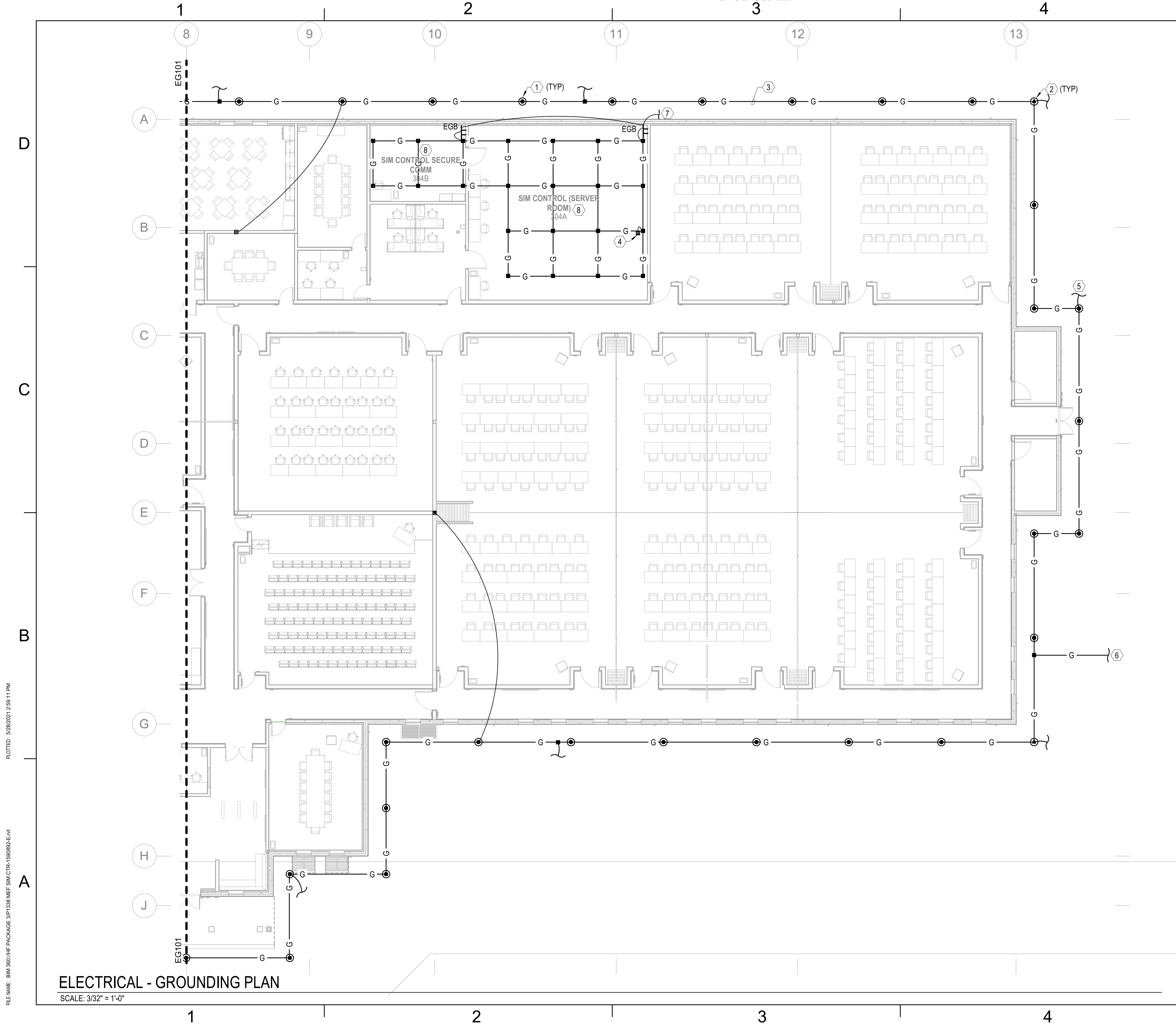
ELECTRICAL - GROUNDING PLAN

SCALE: 3/32" = 1'-0"



FILE NAME: BIM360/HF PACKAGE 3P1338.MEF SIM CTR-1500892-E-01
 PLOTTED: 5/28/2021 2:59:07 PM

DF2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION



GENERAL NOTES

- SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- SEE SHEET EG501 FOR GROUNDING DETAILS
- SEE SHEETS EG103 AND EG104 FOR LIGHTNING PROTECTION PLAN

KEYNOTES

- 3/4" DIAMETER BY 10' LONG COPPER CLAD GROUND ROD.
- GROUND TEST WELL STATION. SEE DETAIL C4 ON SHEET EG501.
- #4/0 AWG BARE COPPER GROUND LOOP INSTALLED 3' MINIMUM TO 10' MAXIMUM FROM BUILDING FOUNDATION AND BEYOND THE BUILDING PERIMETER.
- EXOTHERMIC WELD CONNECTION TO BUILDING STEEL.
- DOWN CONDUCTOR CONNECTION FROM ROOF LIGHTNING PROTECTION SYSTEM. DOWN CONDUCTORS SHALL RUN DOWN THE EXTERIOR OF THE BUILDING WALLS, PROTECTED BY SCH. 40 PVC CONDUIT. COORDINATE WITH LIGHTNING PROTECTION PLANS ON SHEETS EG103 AND EG104.
- #4/0 AWG BARE COPPER GROUND CABLE RUN LENGTH OF NEW FENCE. TIE FENCE POST TO GROUND WIRE VIA GROUND ROD. SEE DETAIL A2 ON SHEET ES506.
- PROVIDE CONNECTION TO MAIN GROUNDING BUS (MGB) IN ELECTRICAL ROOM 403 WITH #4/0 AWG BARE COPPER GEC. SEE DETAIL 1 ON SHEET EG501.
- #4/0 AWG BARE COPPER GROUND BONDING CONNECTION TO TELECOMMUNICATION RACKS IN RM 304A AND 304B. COORDINATE FINAL LOCATION OF TELECOMMUNICATION RACKS.

DATE	DESCRIPTION	APPR



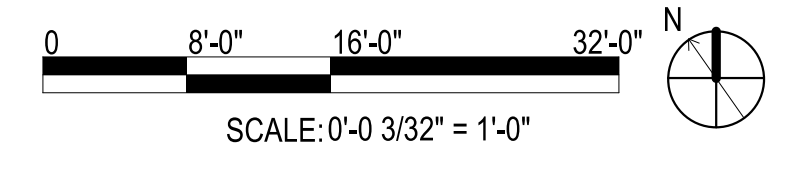
FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
MCB CAMP LEJEUNE
NAVAL FACILITIES ENGINEERING COMMAND
JACKSONVILLE, NC
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - GROUNDING PLAN

SCALE: AS NOTED
EPROJCT NO.: 1590892
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
EG102



FILE NAME: BIM_360/HF PACKAGE 3P1338_MEF_SIM_CTR-1590892-E-01
PLOTTED: 5/28/2021 2:59:11 PM

ELECTRICAL - GROUNDING PLAN
SCALE: 3/32" = 1'-0"

UNCLASSIFIED
DF2 SUBMISSION - P1338 BUILDING -PRE-FINAL SUBMISSION

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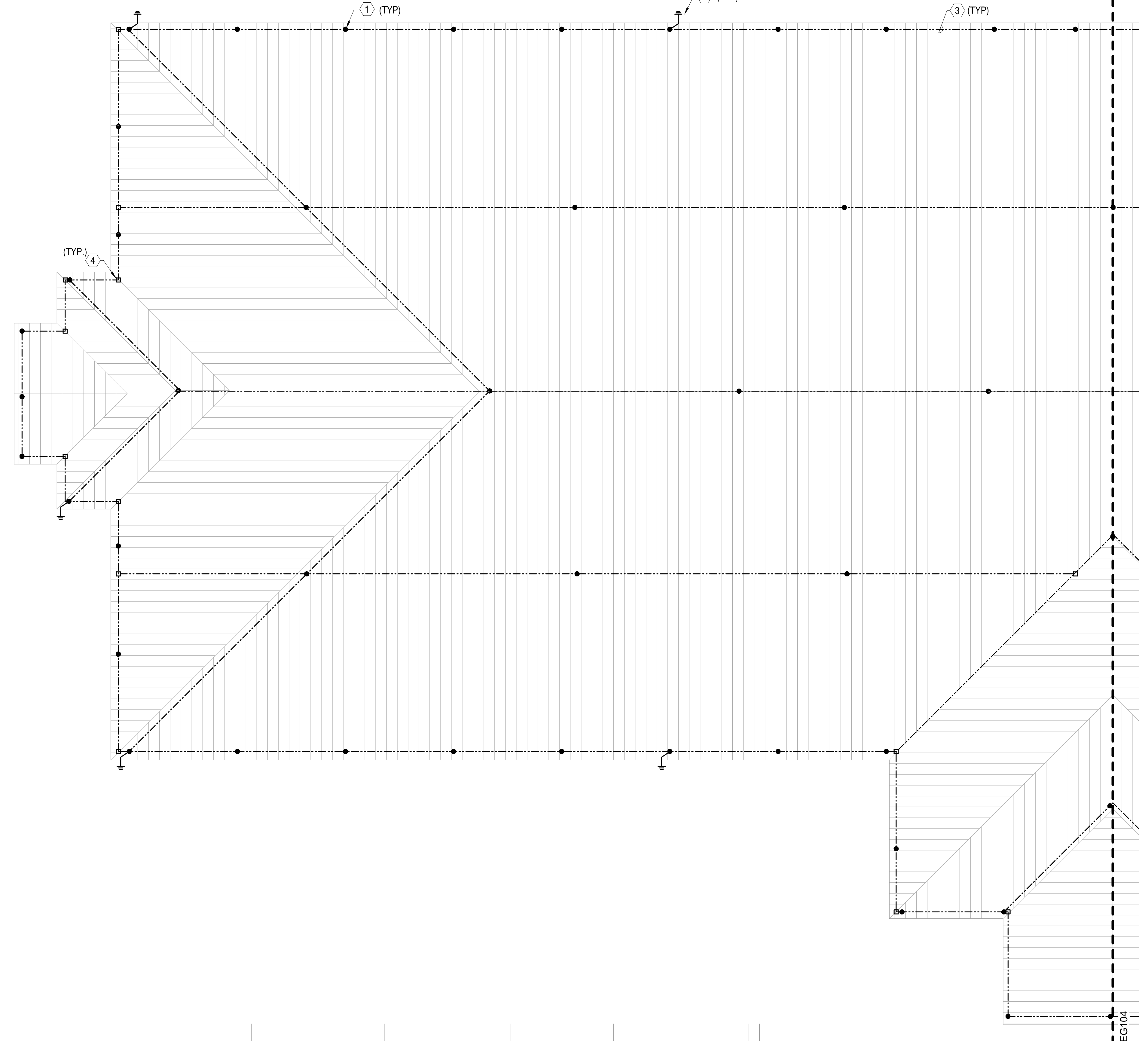
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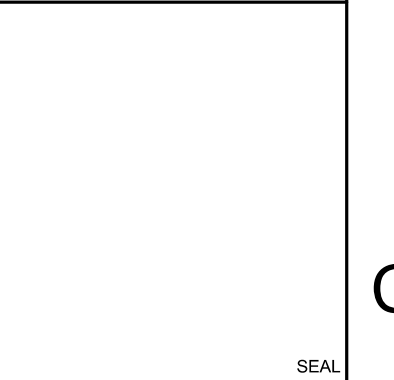
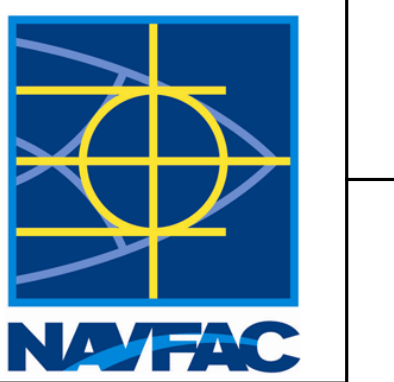
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- GENERAL NOTES**
- SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
 - SEE SHEETS EG101 AND EG102 FOR GROUNDING PLANS
 - SEE SHEET EG501 FOR LIGHTNING PROTECTION DETAILS
 - LIGHTNING PROTECTION DESIGN AND INSTALLATION SHALL MEET THE REQUIREMENTS OF NFPA 780 AND UL96. DESIGN SHALL BE LPI MASTER LABEL CERTIFIED.

- KEYNOTES**
- 5/8" BY 10" SOLID ALUMINUM AIR TERMINAL.
 - #4/0 AWG BARE STRANDED CLASS 1 ALUMINUM DOWN CONDUCTOR CONSISTING OF STRANDS OF #13 AWG ALUMINUM. CONCEAL DOWN CONDUCTORS. PROVIDE APPROPRIATE ALUMINUM TO COPPER BIMETALLIC CONNECTORS AS REQUIRED FOR CONNECTION TO COPPER CLAD GROUND ROD. COORDINATE CONNECTION WITH GROUNDING PLAN ON SHEET EG101 AND EG102.
 - #4/0 AWG BARE STRANDED CLASS 1 ALUMINUM LIGHTNING PROTECTION MAIN CONDUCTOR CONSISTING OF STRANDS OF #13 AWG ALUMINUM.
 - ALUMINUM TO ALUMINUM CLAMP CONNECTOR.

SYMBOL	DESCRIPTION	DATE	APPROVED



FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE
DES SD | DRW LAK | CHK YPS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
ROSC FLORENCE CAMP LEJEUNE
MBC CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - LIGHTNING PROTECTION PLAN

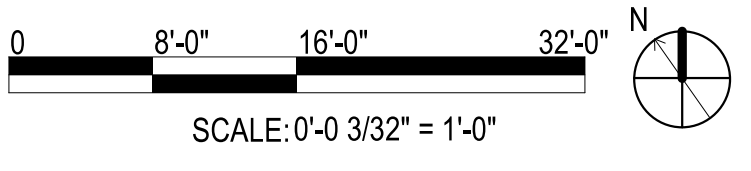
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EPROJCT NO.: 1590892
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.:
SHEET OF

EG103

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

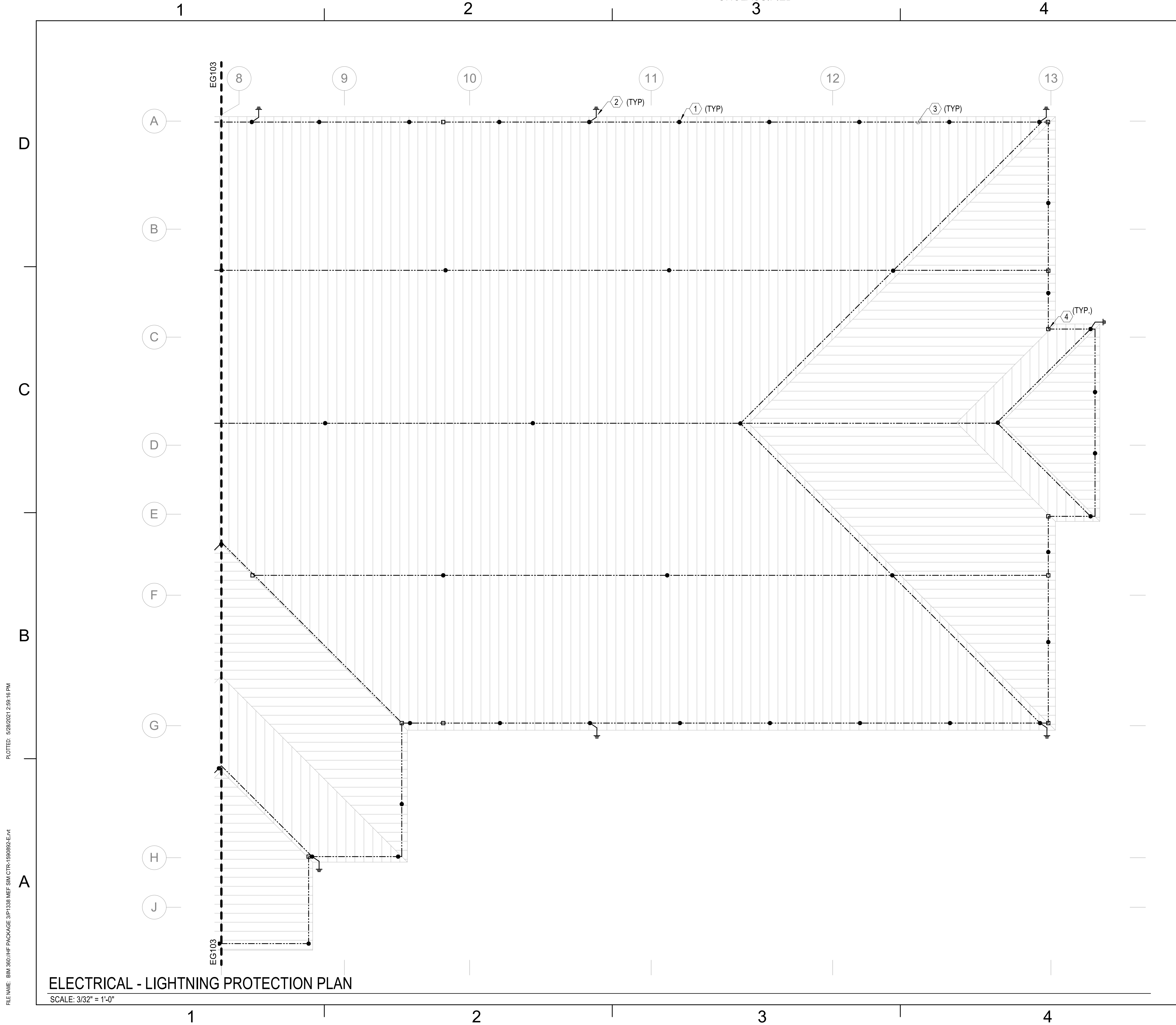
ELECTRICAL - LIGHTNING PROTECTION PLAN

SCALE: 3/32" = 1'-0"



PLOTTED: 5/28/2021 2:59:13 PM

FILE NAME: BIM360/HF PACKAGE 3P1338.MEF_SIM_CTR-1590892-E-N1



- GENERAL NOTES**
- SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
 - SEE SHEETS EG101 AND EG102 FOR GROUNDING PLANS
 - SEE SHEET EG501 FOR LIGHTNING PROTECTION DETAILS
 - LIGHTNING PROTECTION DESIGN AND INSTALLATION SHALL MEET THE REQUIREMENTS OF NFPA 780 AND UL96. DESIGN SHALL BE LPI MASTER LABEL CERTIFIED.

- KEYNOTES**
- 5/8" BY 10" SOLID ALUMINUM AIR TERMINAL.
 - #4/0 AWG BARE STRANDED CLASS 1 ALUMINUM DOWN CONDUCTOR CONSISTING OF STRANDS OF #13 AWG ALUMINUM. CONCEAL DOWN CONDUCTORS. PROVIDE APPROPRIATE ALUMINUM TO COPPER BIMETALLIC CONNECTORS AS REQUIRED FOR CONNECTION TO COPPER CLAD GROUND ROD. COORDINATE CONNECTION WITH GROUNDING PLAN ON SHEET EG101 AND EG102.
 - #4/0 AWG BARE STRANDED CLASS 1 ALUMINUM LIGHTNING PROTECTION MAIN CONDUCTOR CONSISTING OF STRANDS OF #13 AWG ALUMINUM.
 - ALUMINUM TO ALUMINUM CLAMP CONNECTOR.

SYMBOL	DESCRIPTION	DATE	APPROVED



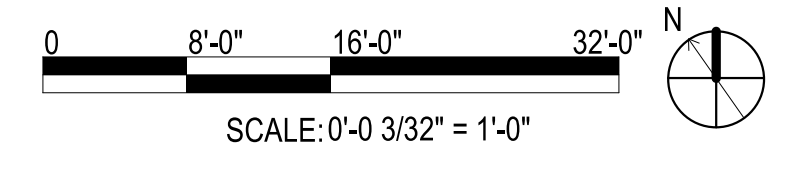
Michael Baker INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 APPROVED

FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE
 SATISFACTORY TO DATE
 DES SD DRW LAK CHK YPS
 PM
 BRANCH MANAGER
 CHIEF ENGINEER
 FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 JACKSONVILLE, NC
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 ELECTRICAL - LIGHTNING PROTECTION PLAN

SCALE: AS NOTED
 EPROJECT NO.: 1500892
 CONSTR. CONTR. NO.: N40085-20-C-0059
 NAVFAC DRAWING NO.:
 SHEET OF

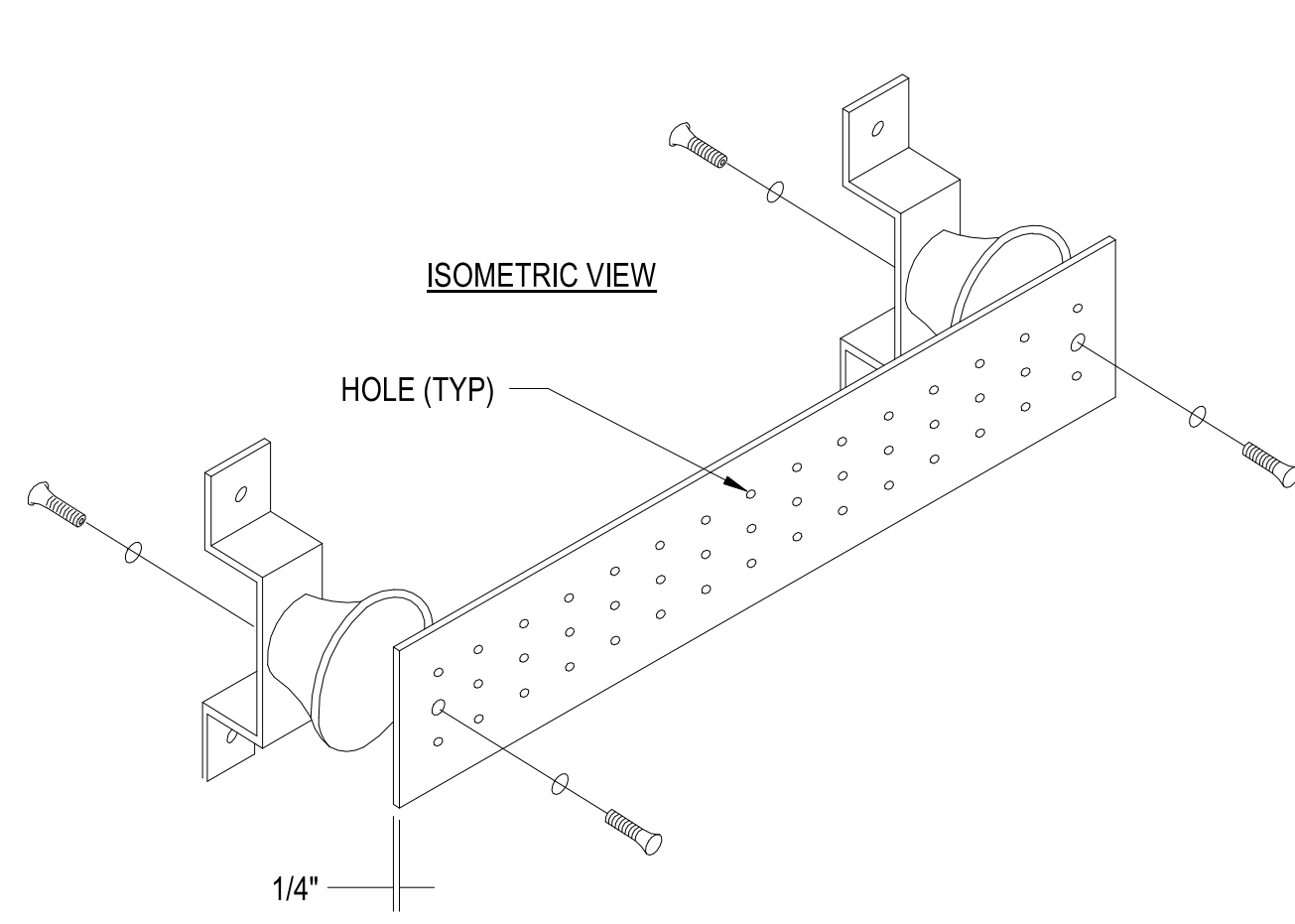
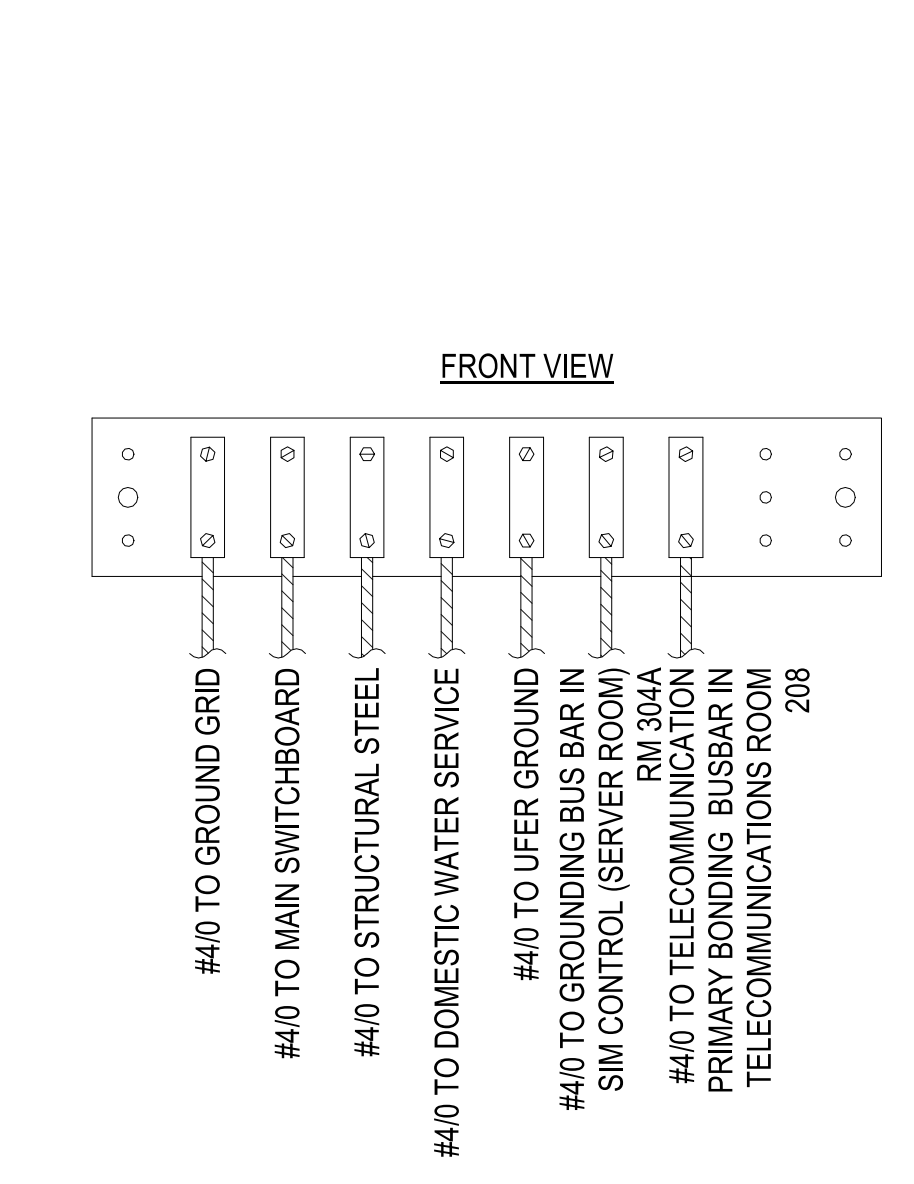
EG104
 DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION



FILE NAME: BIM360/HF PACKAGE 3P1338.MEF SIM CTR-1500892-E-14
 PLOTTED: 5/28/2021 2:59:16 PM

ELECTRICAL - LIGHTNING PROTECTION PLAN
 SCALE: 3/32" = 1'-0"

1 2 3 4 5



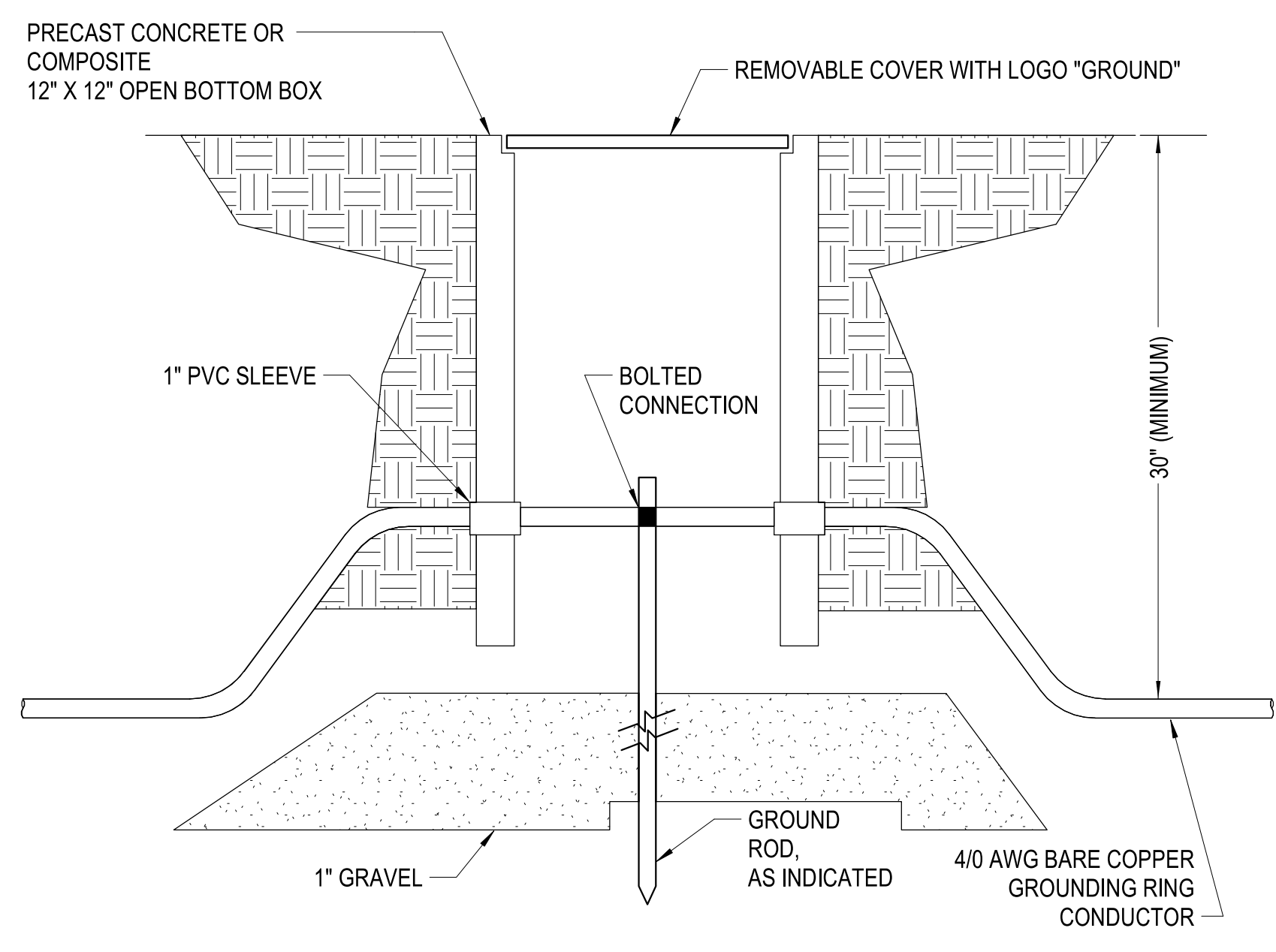
- NOTES:
1. GROUND BUSBAR IS PRE-DRILLED COPPER WITH STANDARD NEMA BOLT HOLE SIZING AND SPACING.
 2. MGB IS 1/4" THICK AND 4" WIDE.
 3. LENGTH SIZED TO ACCOMMODATE GROUND CONNECTIONS OF ALL GROWTH PROVISION. MINIMUM LENGTH SHALL BE 12".

ELECTRICAL MAIN GROUNDING BUSBAR

SCALE:NTS

REF EG101 - EG102

C1

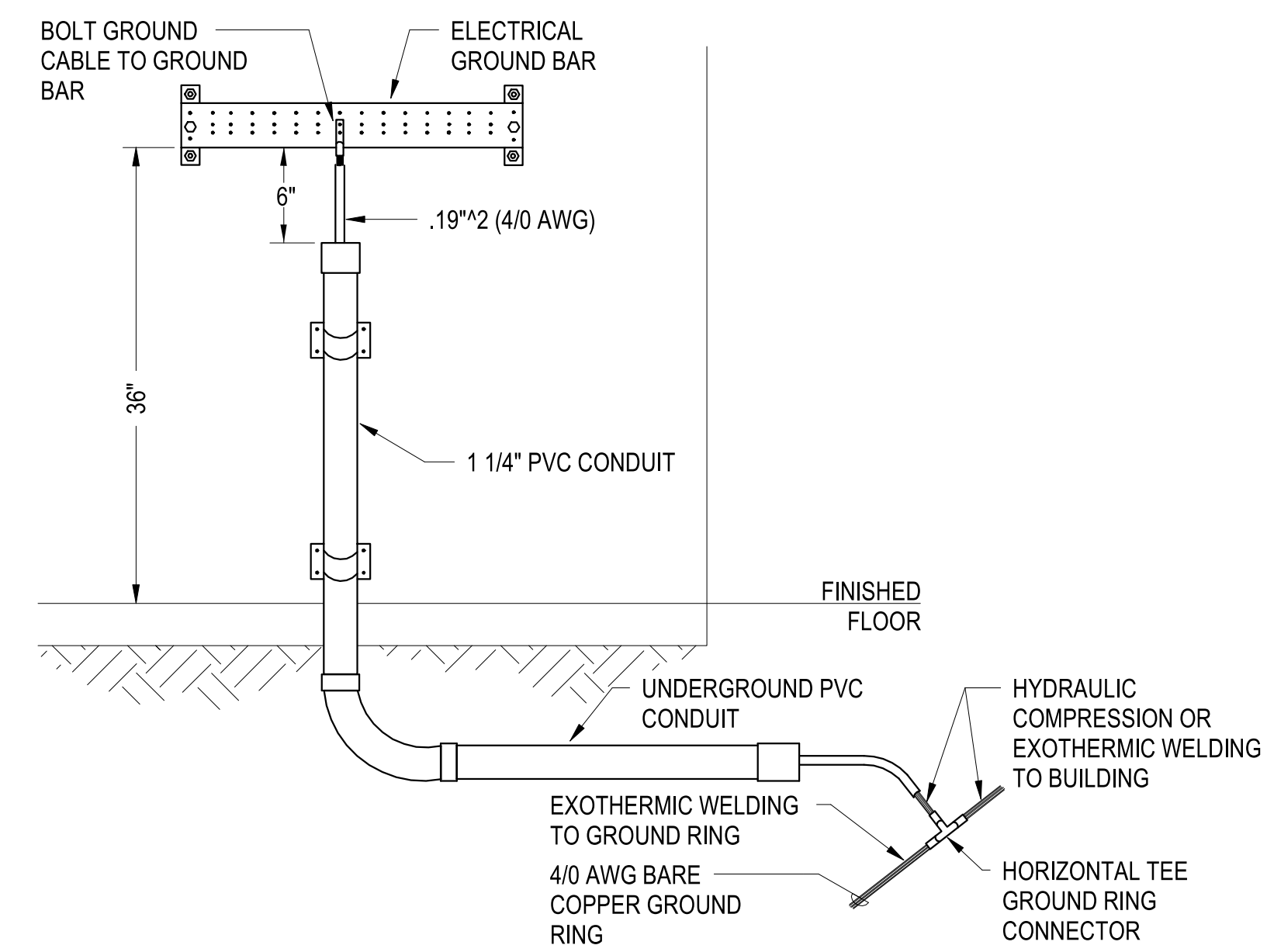


GROUND ROD TEST WELL

SCALE:NTS

REF EG101 - EG102

C4

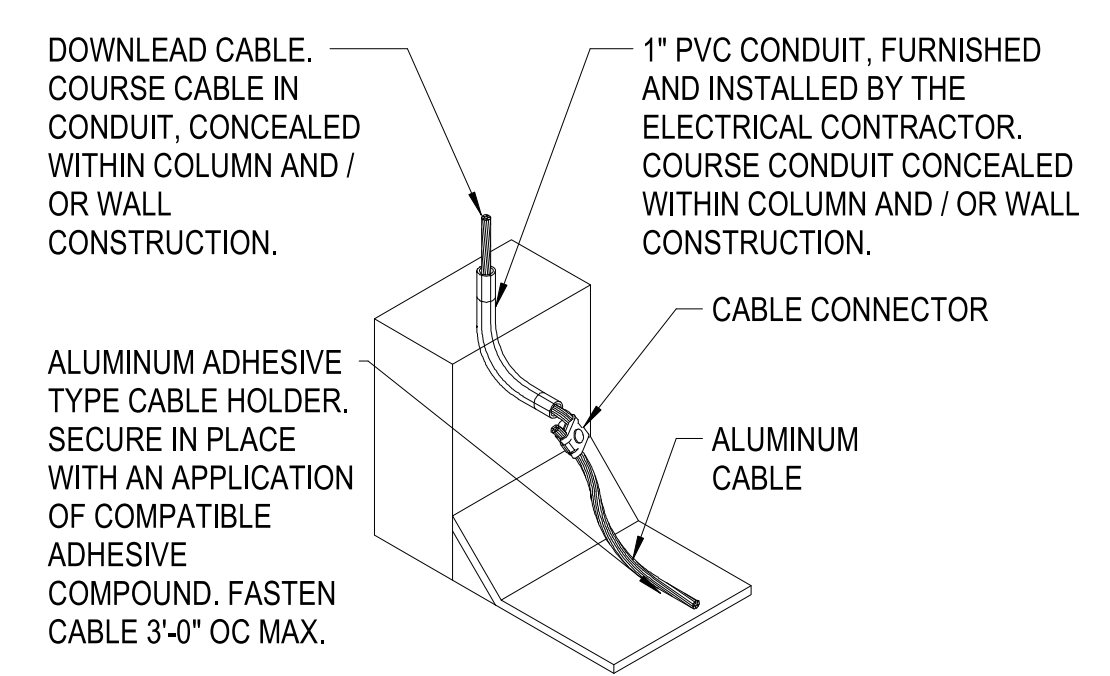


ELECTRICAL GROUND BAR AND GROUND RING CONNECTIONS

SCALE:NTS

REF EG101 - EG102

A1

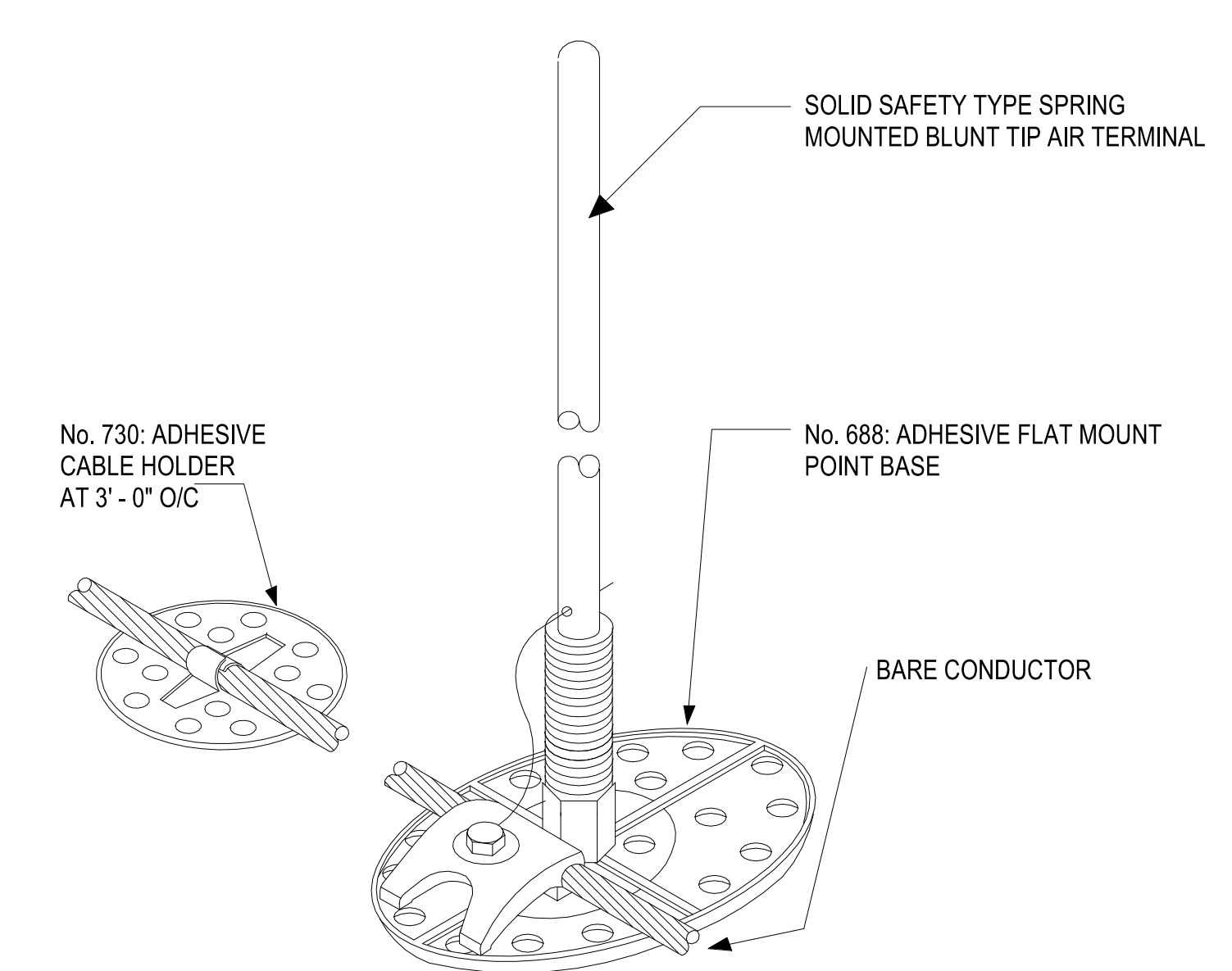


CONCEALED DOWNLEAD TO LOWER ROOF

SCALE:NTS

REF EG103 - EG104

A3



AIR TERMINALS & CABLE HOLDERS

SCALE:NTS

REF EG103 - EG104

A4

FILE NAME: BIM 360/HF PACKAGE 3P11338.MEF SIM CTR-1590892-E-N

PLOTTED: 5/28/2021 2:59:17 PM

APPR	
DATE	
SYN	DESCRIPTION
Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY MARINE CORPS BASE CAMP LEJEUNE	
SATISFACTORY TO DATE	
DES SD	DRW LAK
CHK YPS	
PM	
BRANCH MANAGER	
CHIEF ENGINEER	
FIRE PROTECTION	
NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROIC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT ELECTRICAL - GROUNDING DETAILS	
SCALE:	AS NOTED
EPROJCT NO.:	1590892
CONSTR. CONTR. NO.:	N40085-20-C-0059
NAVFAC DRAWING NO.:	12826285
SHEET	OF
EG501	

UNCLASSIFIED

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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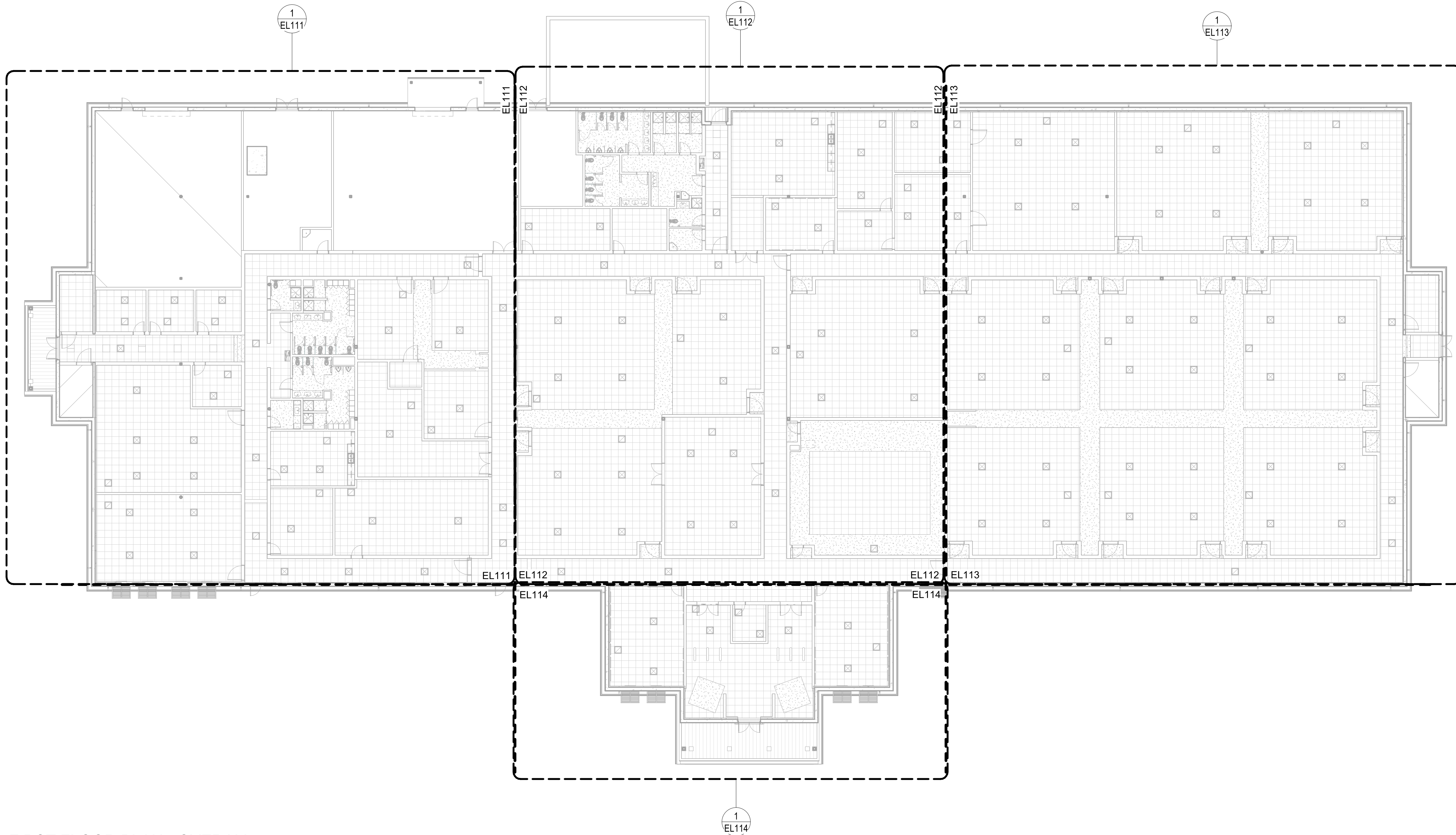
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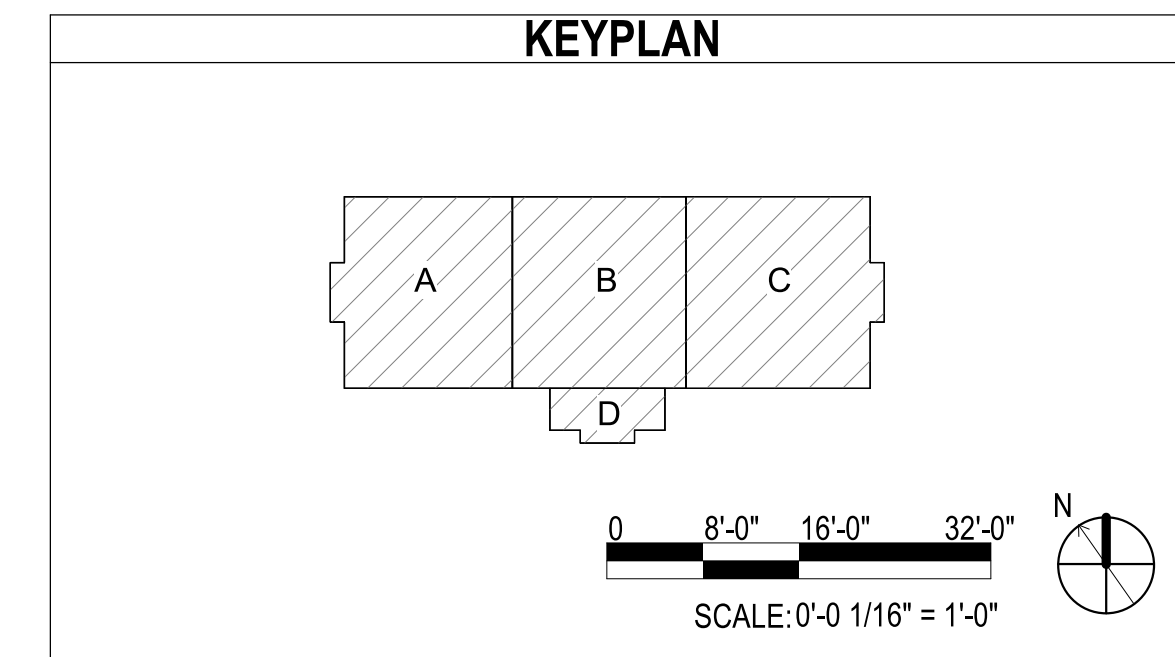


LIGHTING - FIRST FLOOR PLAN - OVERALL

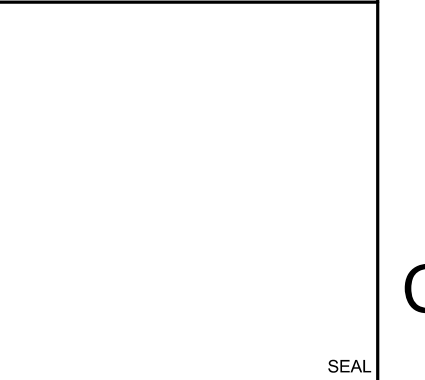
SCALE: 1/16" = 1'-0"

PLOTTED: 5/28/2021 2:59:40 PM

FILE NAME: BIM360/HF PACKAGE 3P11338.MEF SIM CTR-1500892-E-1



SYMBOL	DESCRIPTION	DATE	APPROVED



Michael Baker INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 APPROVED

FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE

SATISFACTORY TO DATE
 DES SD DRW LAK CHK YPS
 PM
 BRANCH MANAGER
 CHIEF ENGINEER
 FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 JACKSONVILLE, NC
 ROIC CAMP LEJEUNE
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 LIGHTING - FIRST FLOOR PLAN - OVERALL

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 JACKSONVILLE, NC
 ROIC CAMP LEJEUNE
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 LIGHTING - FIRST FLOOR PLAN - OVERALL

SCALE: AS NOTED
 EPROJECT NO.: 1500892
 CONSTR. CONTR. NO.: N40085-20-C-0059
 NAVFAC DRAWING NO.:
 SHEET OF
EL110

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

UNCLASSIFIED

UNCLASSIFIED

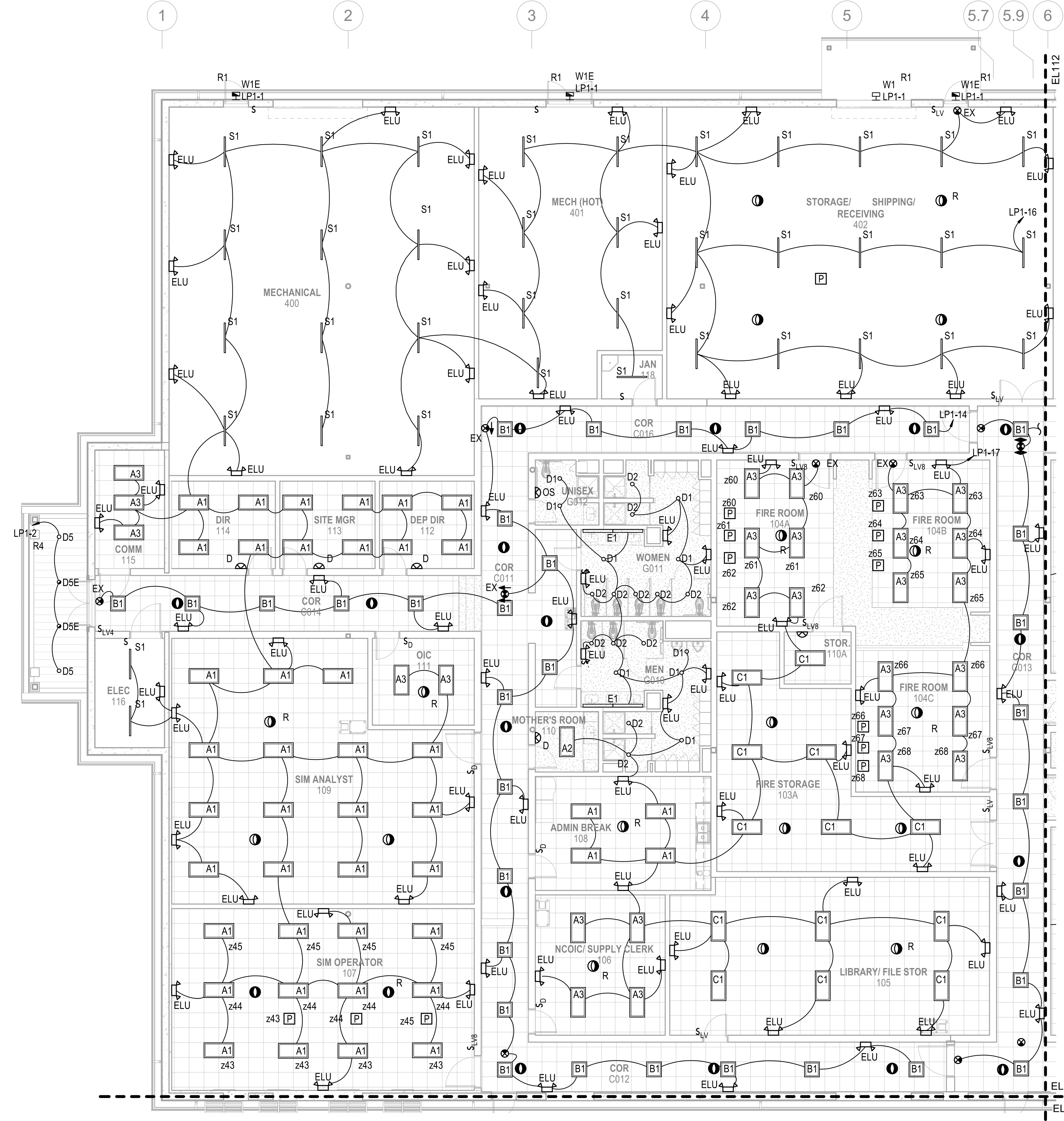
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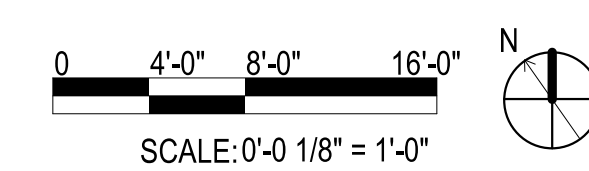
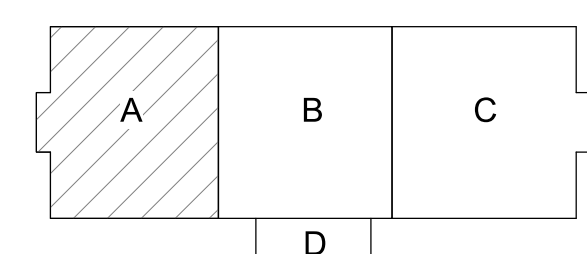
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GENERAL NOTES
 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.

APPROVED	DATE	APPR
DESCRIPTION	DATE	APPR
SYMBOL	DESCRIPTION	APPR
100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED		
FOR COMMANDER NAVFAC ACTIVITY MARINE CORPS BASE CAMP LEJEUNE		
SATISFACTORY TO DATE DES SD DRW LAK CHK YPS PM		
BRANCH MANAGER CHIEF ENGINEER FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROIC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT LIGHTING - FIRST FLOOR PLAN - AREA A		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROIC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT LIGHTING - FIRST FLOOR PLAN - AREA A		
SCALE: AS NOTED EPROJCT NO.: 1590892 CONSTR. CONTR. NO.: N40085-20-C-0059 NAVFAC DRAWING NO.: SHEET OF EL111		

KEYPLAN



LIGHTING - FIRST FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"

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FILE NAME: BIM_360/HF PACKAGE 3/P1338.MEF SIM CTR-1590892-E-A1 PLOTTED: 5/28/2021 3:00:12 PM

UNCLASSIFIED

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

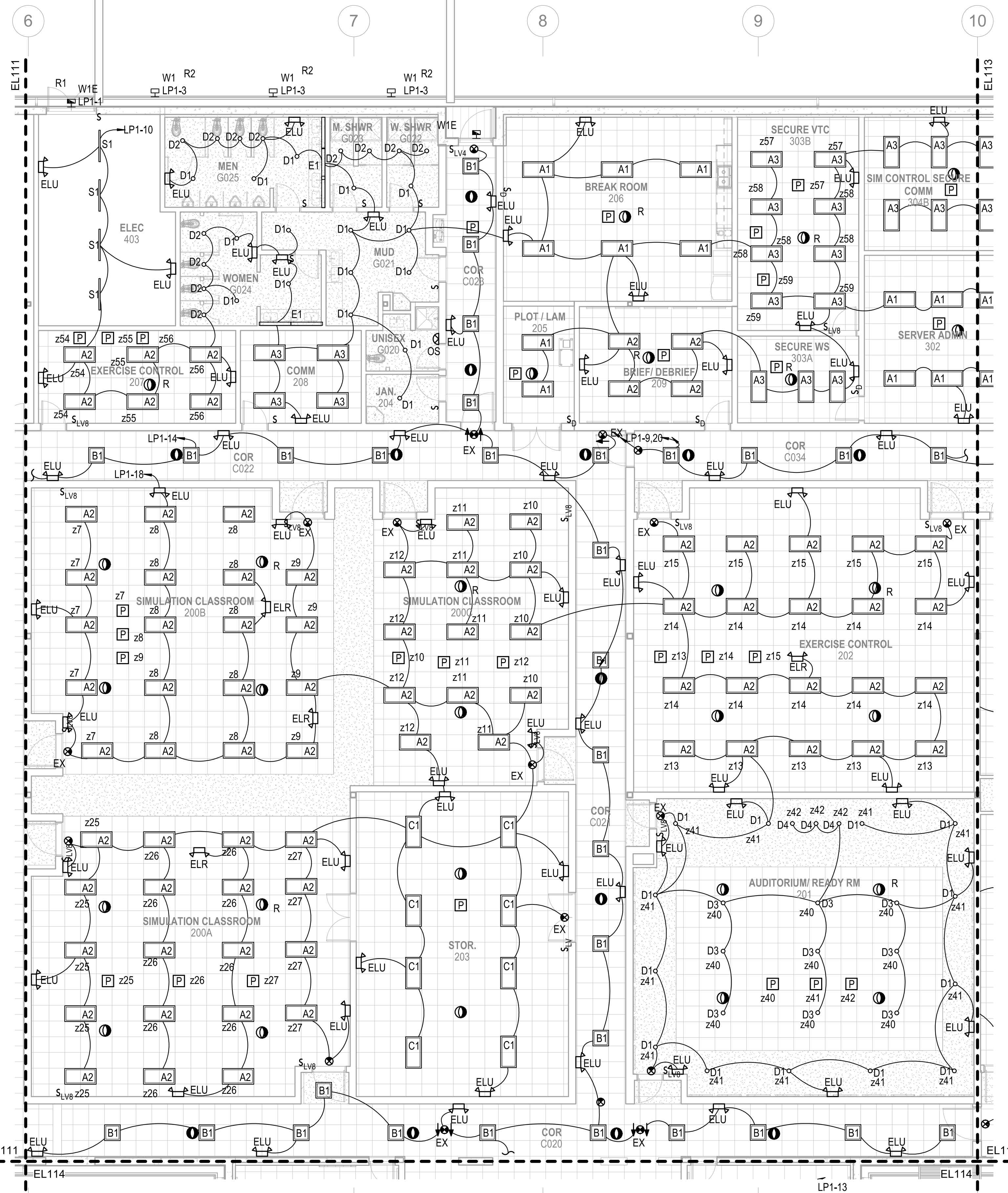
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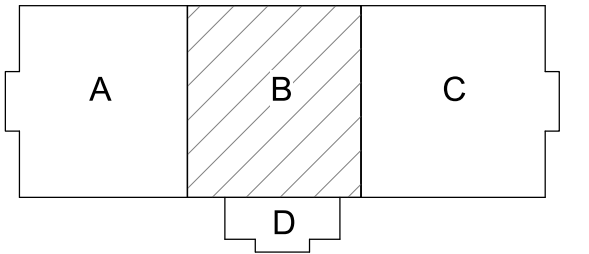
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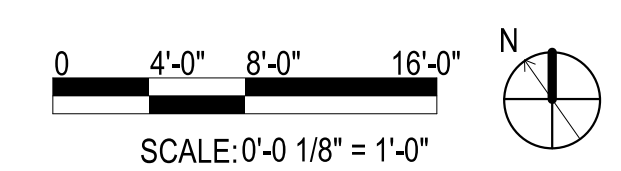
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GENERAL NOTES
 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.

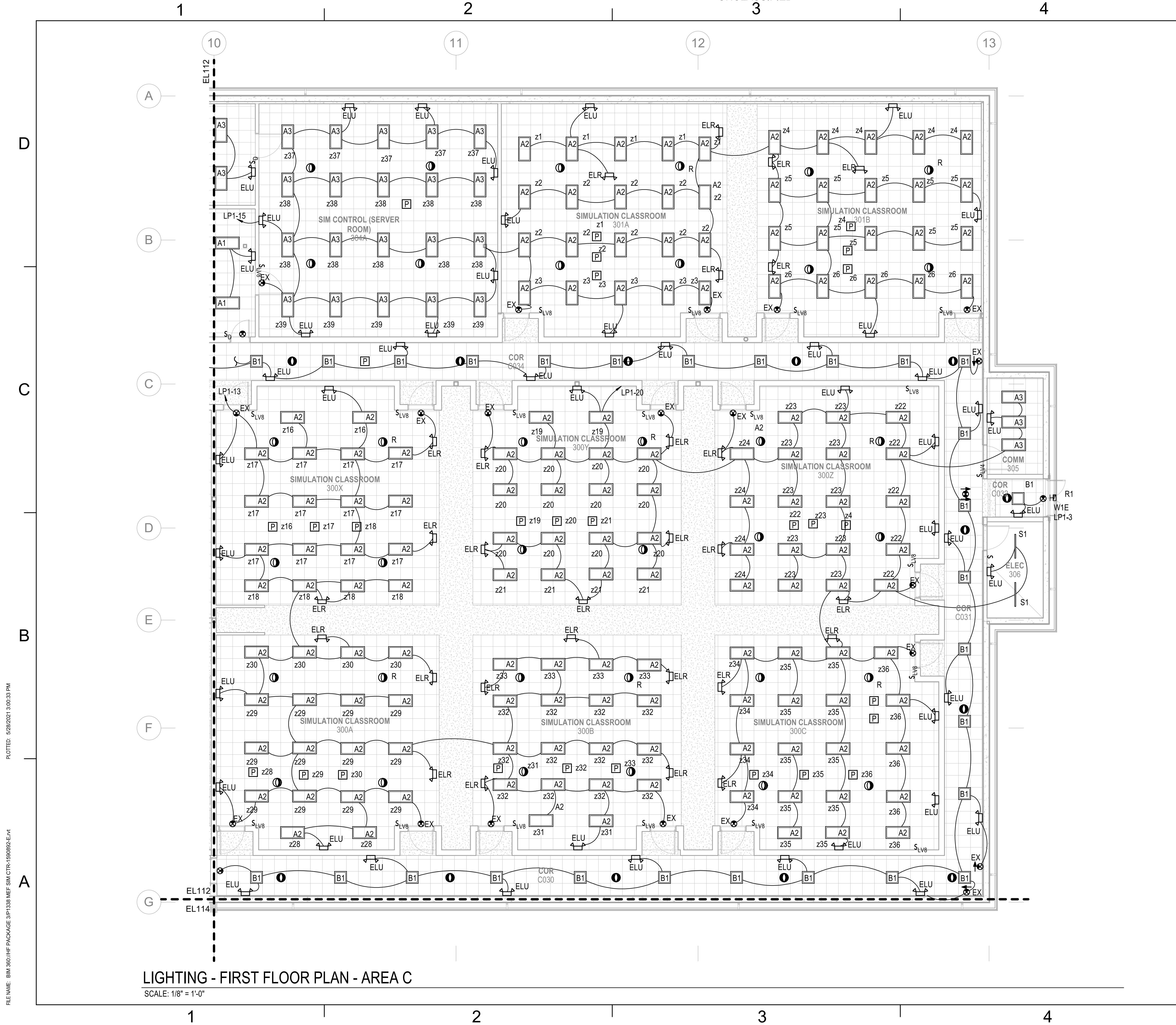
APPROVED	DATE	APPR
DESCRIPTION	DATE	APPR
SYMBOL	DESCRIPTION	APPR
		
		
FOR COMMANDER NAVFAC ACTIVITY MARINE CORPS BASE CAMP LEJEUNE SATISFACTORY TO DATE DES SD DRW LAK CHK YPS PM BRANCH MANAGER CHIEF ENGINEER FIRE PROTECTION JACKSONVILLE, NC JACKSONVILLE, NC		
KEYPLAN 		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC ROIC FLORENCE CAMP LEJEUNE MCB CAMP LEJEUNE P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT LIGHTING - FIRST FLOOR PLAN - AREA B PRE-FINAL SUBMISSION DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION		
SCALE: AS NOTED	PROJECT NO.: 1509892	
CONSTR. CONTR. NO. N40085-20-C-0059		
NAVFAC DRAWING NO.		
SHEET OF		
EL112		

LIGHTING - FIRST FLOOR PLAN - AREA B
 SCALE: 1/8" = 1'-0"



FILE NAME: BIM 360/HF PACKAGE 3P1338.MEF SIM CTR-1509892-E-1
 PLOTTED: 5/28/2021 3:00:27 PM

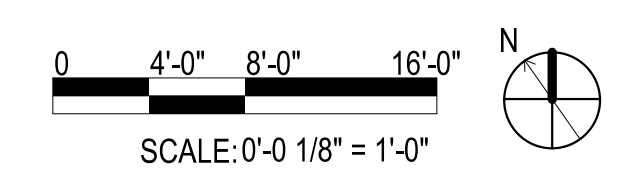
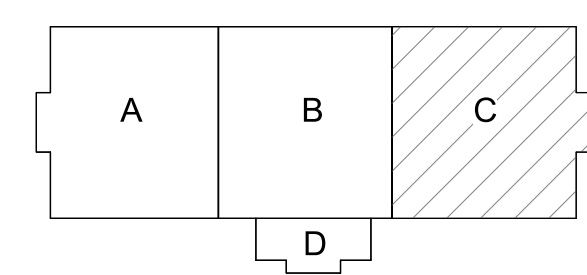
UNCLASSIFIED





LIGHTING - FIRST FLOOR PLAN - AREA C
SCALE: 1/8" = 1'-0"

GENERAL NOTES
1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.

KEYPLAN



APPROVED	DATE	APPR
DESCRIPTION	DATE	APPR
SYMBOL	DESCRIPTION	SYMBOL
		
		
FOR COMMANDER NAVFAC ACTIVITY MARINE CORPS BASE CAMP LEJEUNE SATISFACTORY TO DATE DES SD DRW LAK CHK YPS PM BRANCH MANAGER CHIEF ENGINEER FIRE PROTECTION		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC ROIC FLORENCE CAMP LEJEUNE MCB CAMP LEJEUNE P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT JACKSONVILLE, NC		
SCALE: AS NOTED EPROJCT NO.: 1590892 CONSTR. CONTR. NO.: N40085-20-C-0059 NAVFAC DRAWING NO.: SHEET EL113 OF		

PLOTTED: 5/28/2021 3:00:33 PM

FILE NAME: BIM_360/HF PACKAGE 3P11338_MEF_SIM_CTR-1590892-E-1

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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GENERAL NOTES

1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.

SYMBOL	DESCRIPTION	DATE	APPROVED

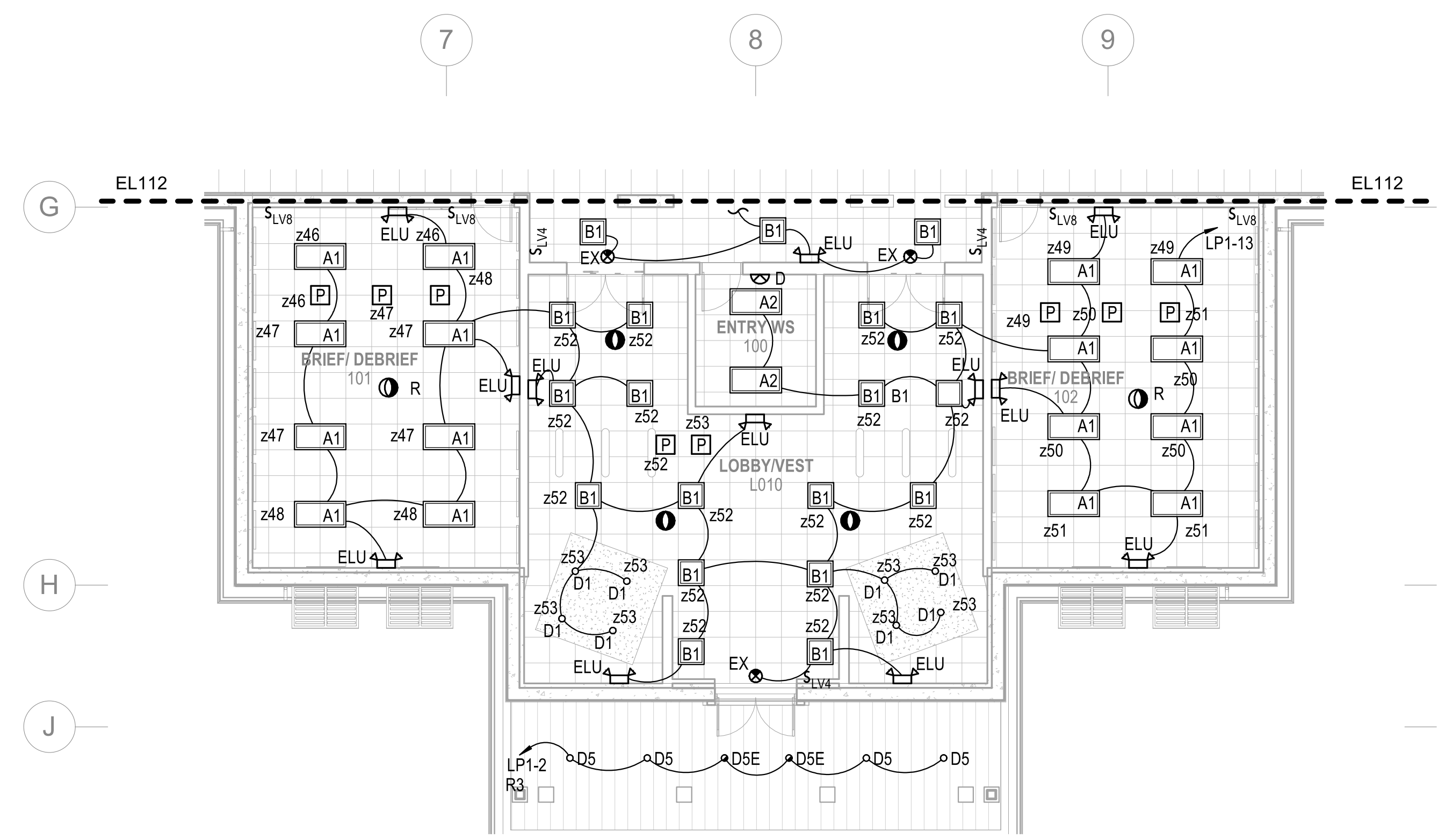


Michael Baker INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 APPROVED

FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING COMMAND
 JACKSONVILLE, NC
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 JACKSONVILLE, NC
 ROICC FLORENCE CAMP LEJEUNE
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 LIGHTING - FIRST FLOOR PLAN - AREA D

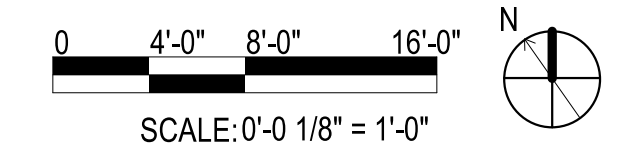
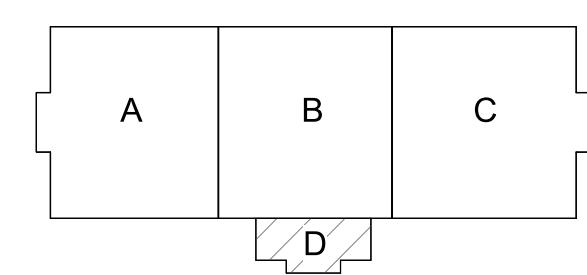
SCALE: AS NOTED
 EPROJECT NO.: 1590892
 CONSTR. CONTR. NO.: N40085-20-C-0059
 NAVFAC DRAWING NO.:
 SHEET OF
EL114



LIGHTING - FIRST FLOOR PLAN - AREA D

SCALE: 1/8" = 1'-0"

KEYPLAN



SCALE: 0'-0 1/8" = 1'-0"

PLOTTED: 5/28/2021 3:00:26 PM

FILE NAME: BIM_360/HF PACKAGE 3P1338.MEF SIM CTR-1590892.E-1

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

UNCLASSIFIED

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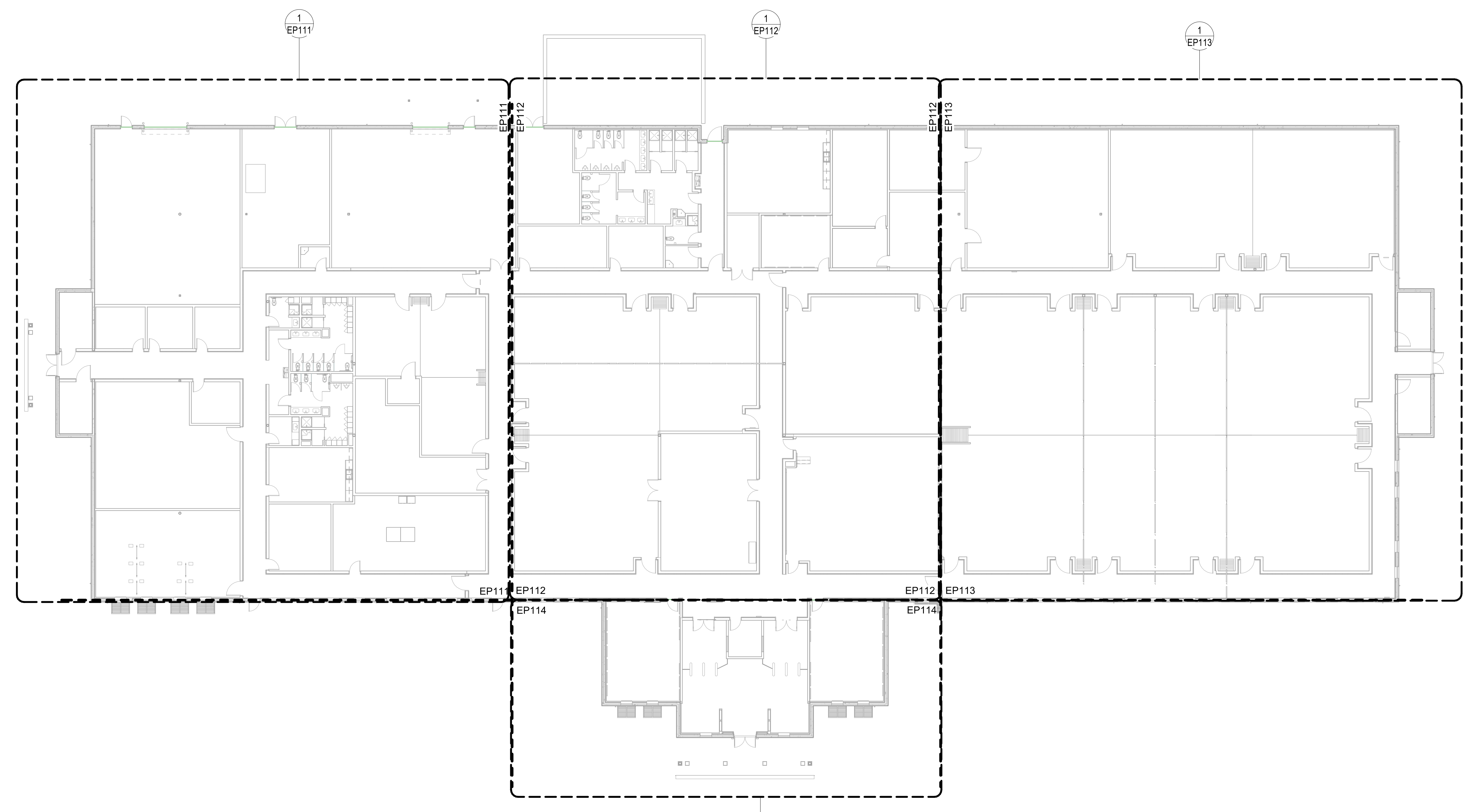
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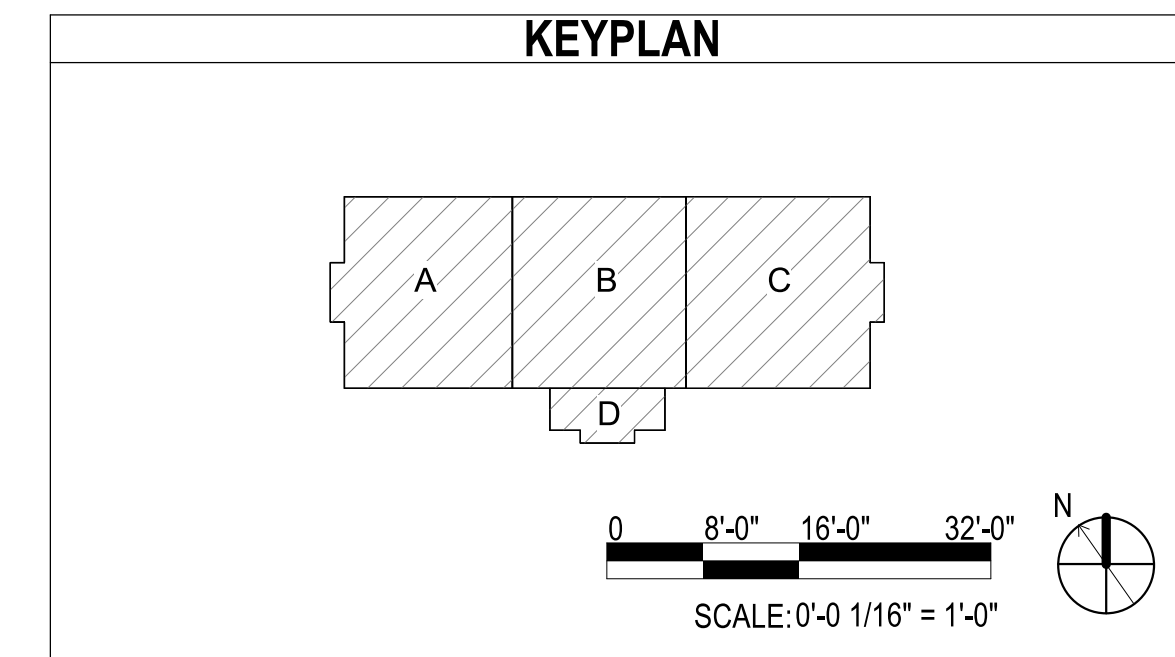
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POWER - FIRST FLOOR PLAN - OVERALL
 SCALE: 1/16" = 1'-0"



PLOTTED: 5/28/2021 3:09:31 PM

FILE NAME: BIM360/HF PACKAGE 3P1338.MEF SIM CTR-150082-E-1

SYMBOL	DESCRIPTION	DATE	APPR
			
			
			
100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED			
FOR COMMANDER NAVFAC ACTIVITY MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE DES SD DRW LAK CHK YPS			
PM BRANCH MANAGER CHIEF ENGINEER FIRE PROTECTION			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROICC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT POWER - FIRST FLOOR PLAN - OVERALL			
SCALE: AS NOTED EPROJCT NO.: 150082 CONSTR. CONTR. NO.: N40085-20-C-0059 NAVFAC DRAWING NO.: SHEET OF			
EP110			

UNCLASSIFIED

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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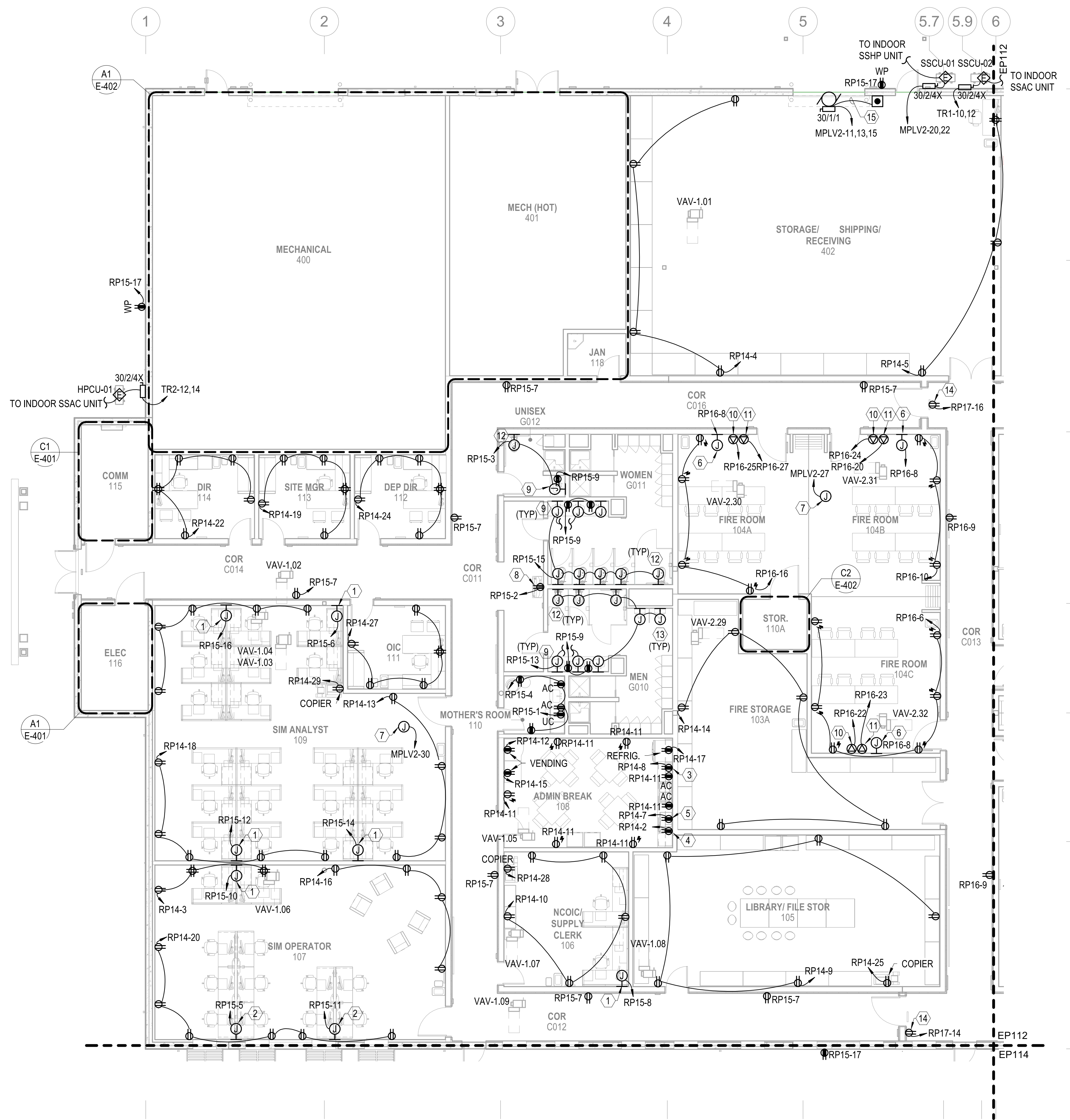
C

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POWER - FIRST FLOOR PLAN - AREA A
 SCALE: 1/8" = 1'-0"

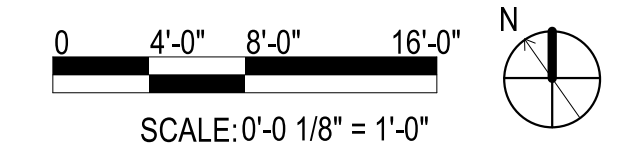
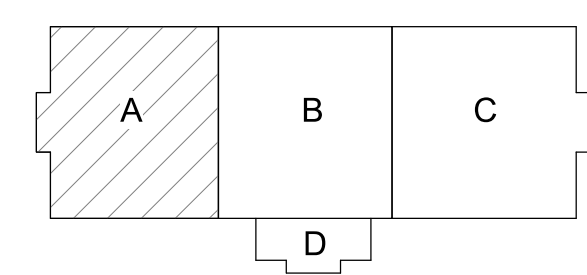
GENERAL NOTES




- SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

- JUNCTION BOX FOR FURNITURE WHIP. COORDINATE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- JUNCTION BOX FOR FURNITURE POWER BAR. COORDINATE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- RECEPTACLE FOR MICROWAVE ON SHELF ABOVE COUNTERTOP. MOUNT RECEPTACLE AT 60" AFF.
- GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR COFFEE POT.
- GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR MICROWAVE.
- DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE TO BE INSTALLED IN AV WALL BOX. REFERENCE TA-SERIES DRAWINGS FOR DETAILS, MOUNTING HEIGHT, AND LOCATION.
- JUNCTION BOX FOR VAV LOW VOLTAGE POWER. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.
- RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER'S RECOMMENDATIONS.
- HARD-WIRED 120V CONNECTION FOR LAVATORY INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF LAVATORY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- NEMA L5-30R TWIST LOCK RECEPTACLE. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH USER.
- NEMA 5-20R RECEPTACLE. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH USER.
- HARD-WIRED 120V CONNECTION FOR WATER CLOSET INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF WATER CLOSET. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- HARD-WIRED 120V CONNECTION FOR URINAL INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF URINAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. COORDINATE FINAL HEIGHT AND LOCATION WITH INSTALLATION OF CLOCK.
- CONDUIT BY ELECTRICAL CONTRACTOR. LOW VOLTAGE WIRING BY OTHERS.

KEYPLAN



APPROVED	DATE	SYMBOL	DESCRIPTION
			
			
			
100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE			
DES SD	DRW LAK	CHK YPS	
PM			
BRANCH MANAGER			
CHIEF ENGINEER			
FIRE PROTECTION			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROICC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT POWER - FIRST FLOOR PLAN - AREA A			
SCALE: AS NOTED			
EPROJCT NO.: 1590892			
CONSTR. CONTR. NO. N40085-20-C-0059			
NAVFAC DRAWING NO.			
SHEET OF			
EP111			

FILE NAME: BIM_360/HF PACKAGE 3P1338.MEF_SIM_CTR-1590892-E-1

PLOTTED: 5/28/2021 3:00:44 PM

UNCLASSIFIED

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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UNCLASSIFIED

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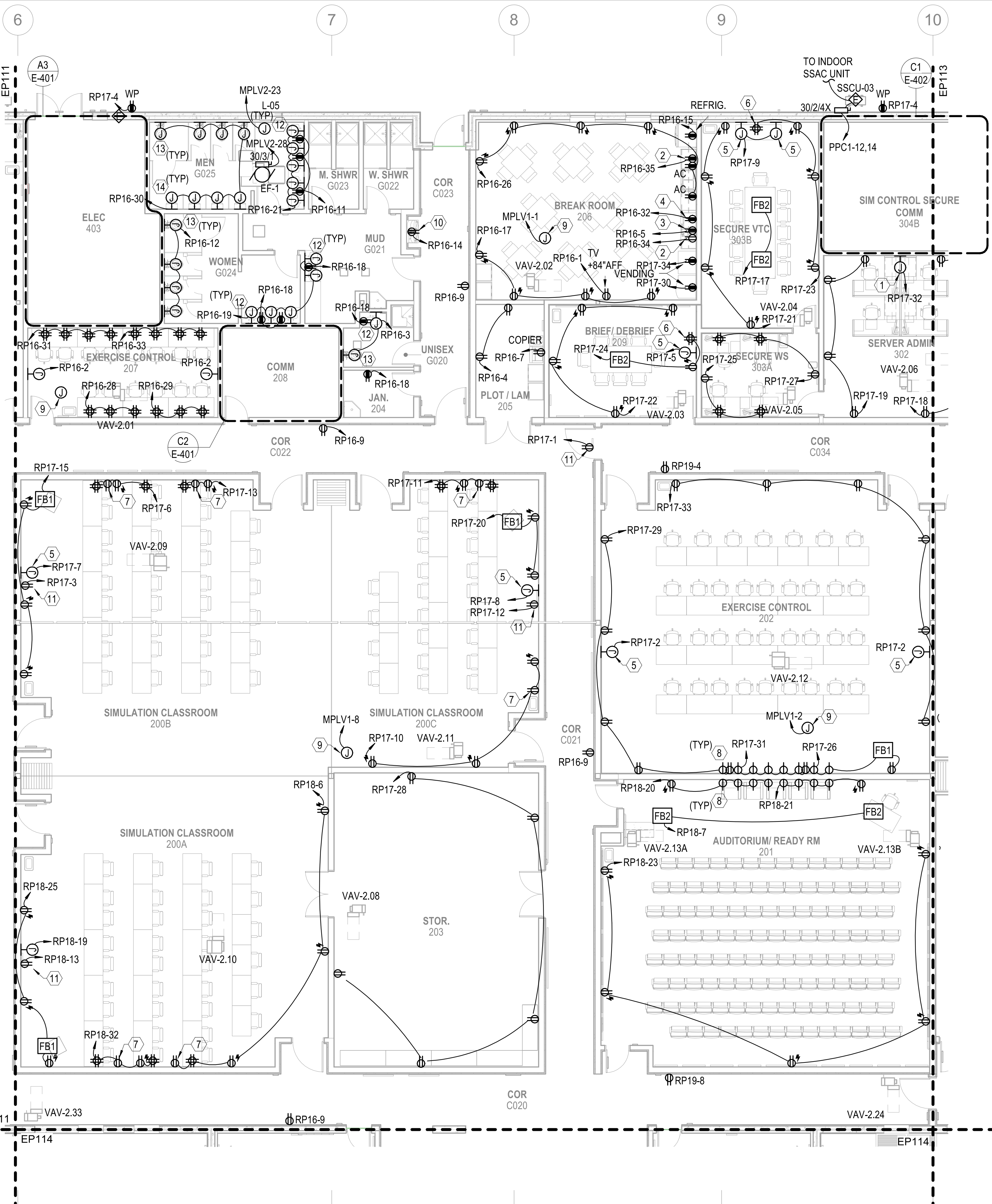
C

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POWER - FIRST FLOOR PLAN - AREA B
 SCALE: 1/8" = 1'-0"

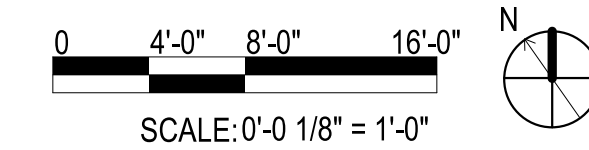
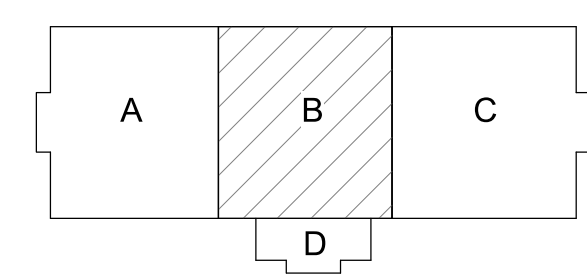
GENERAL NOTES

- SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

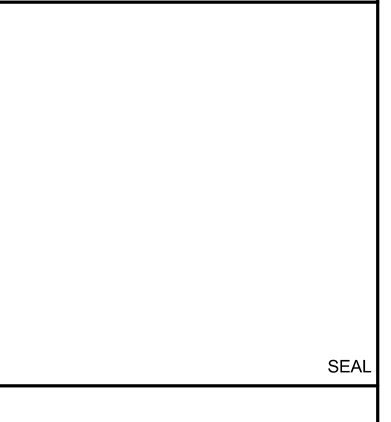
KEYNOTES

- JUNCTION BOX FOR FURNITURE WHIP. COORDINATE AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- RECEPTACLE FOR MICROWAVE ON SHELF ABOVE COUNTERTOP, MOUNT RECEPTACLE AT 60" AFF.
- GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR COFFEE POT.
- GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR MICROWAVE.
- DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE TO BE INSTALLED IN AV WALL BOX. REFERENCE TA-SERIES DRAWINGS FOR DETAILS, MOUNTING HEIGHT, AND LOCATION.
- AV RECESSED QUAD RECEPTACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
- AV RECESSED DUPLEX RECEPTACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
- AV RECESSED CLOCK RECEPTACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
- JUNCTION BOX FOR VAV LOW VOLTAGE POWER. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.
- RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER'S RECOMMENDATIONS.
- DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. COORDINATE FINAL HEIGHT AND LOCATION WITH INSTALLATION OF CLOCK.
- HARD-WIRED 120V CONNECTION FOR LAVATORY INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF LAVATORY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- HARD-WIRED 120V CONNECTION FOR WATER CLOSET INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF WATER CLOSET. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- HARD-WIRED 120V CONNECTION FOR URINAL INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF URINAL. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

KEYPLAN



DATE	DESCRIPTION	SYMBOL	APPROVED



FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE

SATISFACTORY TO DATE
 DES SD DRW LAK CHK YPS
 PM
 BRANCH MANAGER
 CHIEF ENGINEER
 FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
 ROIC FLORENCE CAMP LEJEUNE
 JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 POWER - FIRST FLOOR PLAN - AREA B

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 ROIC FLORENCE CAMP LEJEUNE
 JACKSONVILLE, NC
 SCALE: AS NOTED
 EPROJCT NO.: 1500892
 CONSTR. CONTR. NO.: N40085-20-C-0059
 NAVFAC DRAWING NO.:
 SHEET OF
EP112

PLOTTED: 5/28/2021 3:00:48 PM

FILE NAME: BIM 360//HF PACKAGE 3P11338.MEF SIM CTR-1500892-E-N1

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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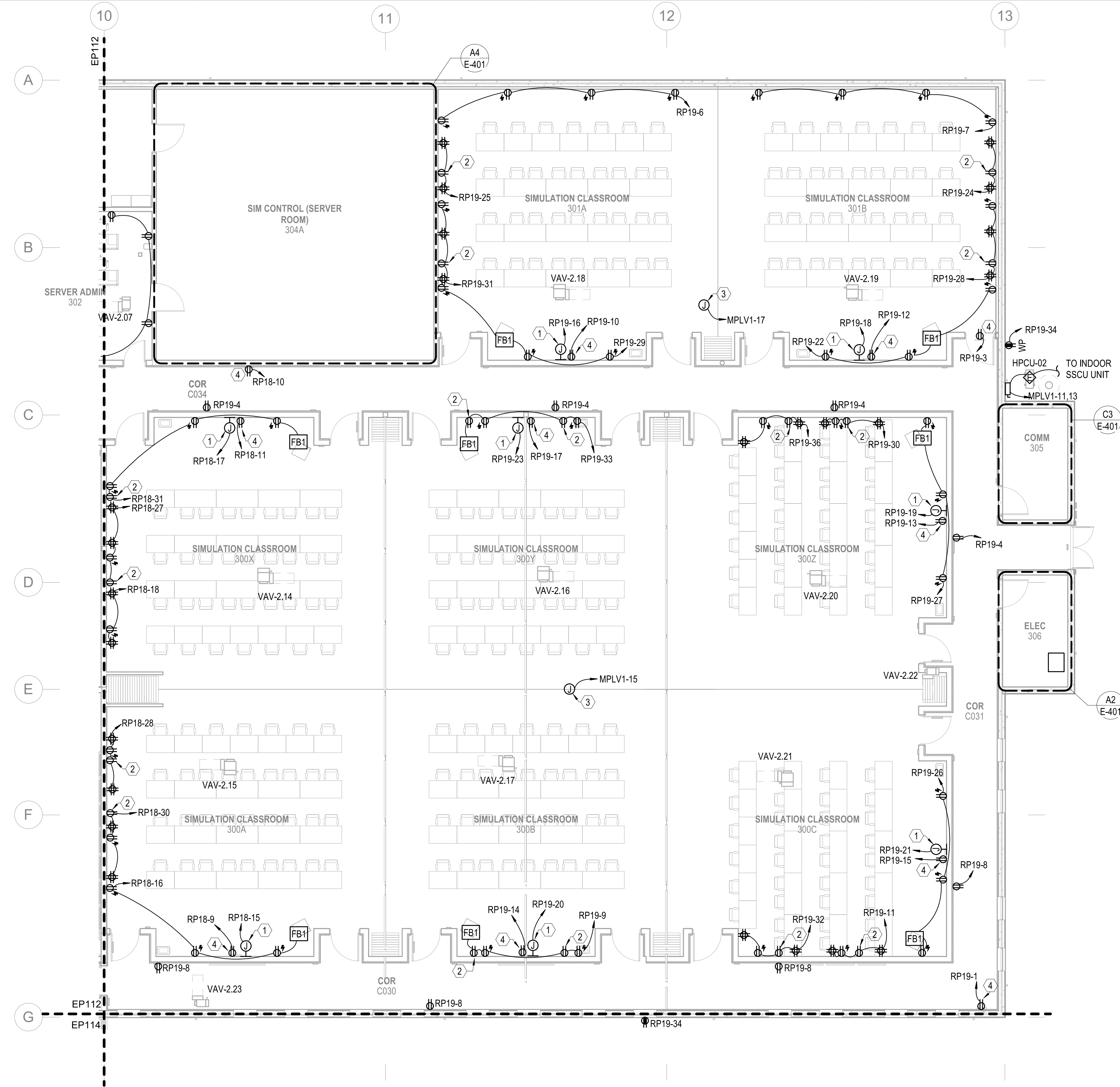
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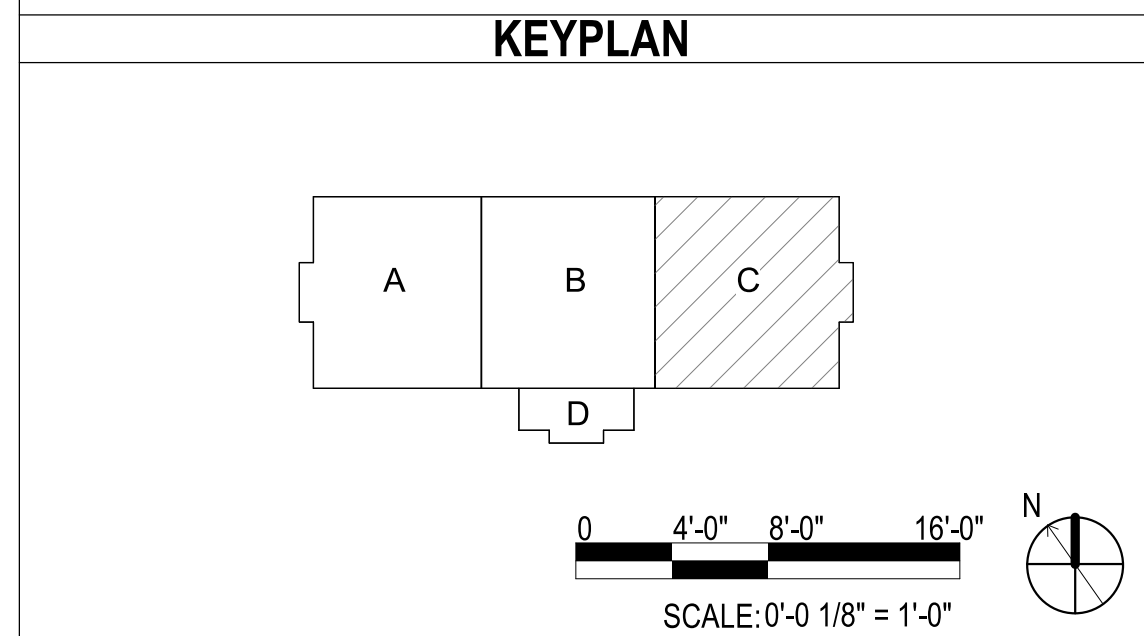


GENERAL NOTES

- SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

- DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE TO BE INSTALLED IN AV WALL BOX. REFERENCE TA-SERIES DRAWINGS FOR DETAILS, MOUNTING HEIGHT, AND LOCATION.
- AV RECESSED DUPLEX RECEPTACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
- JUNCTION BOX FOR VAV LOW VOLTAGE POWER. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.
- DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. COORDINATE FINAL HEIGHT AND LOCATION WITH INSTALLATION OF CLOCK.



POWER - FIRST FLOOR PLAN - AREA C
SCALE: 1/8" = 1'-0"

APPR	
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SYMBOL	
100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED	
FOR COMMANDER NAVFAC ACTIVITY MARINE CORPS BASE CAMP LEJEUNE	
SATISFACTORY TO DATE DES SD DRW LAK CHK YPS PM	
BRANCH MANAGER CHIEF ENGINEER FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROIC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT POWER - FIRST FLOOR PLAN - AREA C	
SCALE: AS NOTED EPROJCT NO.: 1509892 CONSTR. CONTR. NO.: N40085-20-C-0059 NAVFAC DRAWING NO.: SHEET OF EP113	

PLOTTED: 5/28/2021 3:00:53 PM

FILE NAME: BIM_360/HF PACKAGE 3/P1338_MEF_SIM_CTR-1509892-E-11

UNCLASSIFIED

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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GENERAL NOTES

- 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2 ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

- 1 DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE TO BE INSTALLED IN AV WALL BOX. REFERENCE TA-SERIES DRAWINGS FOR DETAILS, MOUNTING HEIGHT, AND LOCATION.
- 2 POWER ELECTRICAL CONNECTION FOR TURNSTILE CONTROL GATE REMOTE POWER SUPPLY. COORDINATE FINAL POWER LOCATION WITH FINAL LOCATION OF REMOTE POWER SUPPLY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
- 3 JUNCTION BOX FOR VAV LOW VOLTAGE POWER. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.
- 4 DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. COORDINATE FINAL HEIGHT AND LOCATION WITH INSTALLATION OF CLOCK.



Michael Baker INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108
 APPROVED

FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD DRW LAK CHK YPS

PM

BRANCH MANAGER

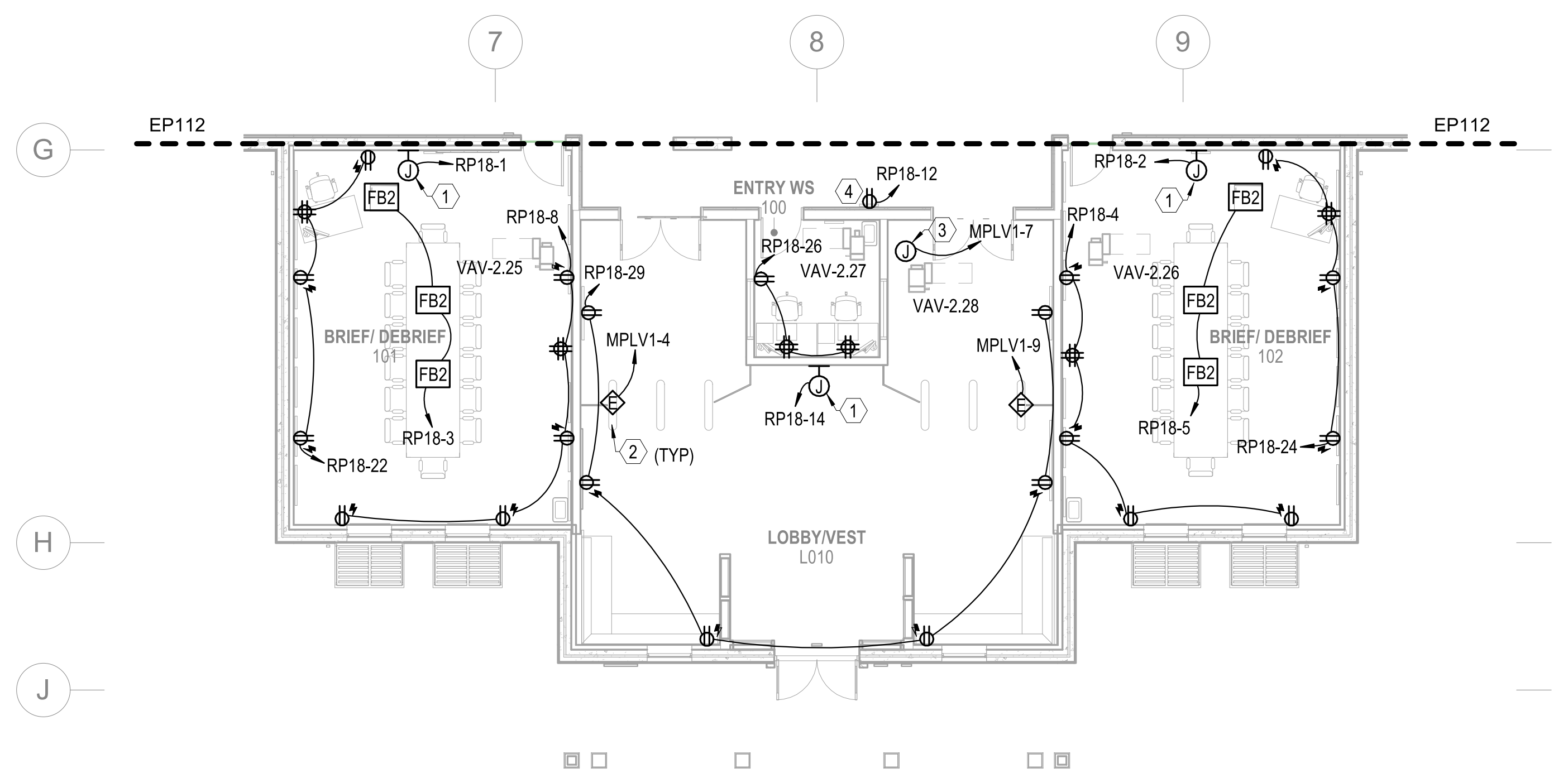
CHIEF ENGINEER

FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 ROICC FLORENCE CAMP LEJEUNE
 JACKSONVILLE, NC
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 POWER - FIRST FLOOR PLAN - AREA D

SCALE: AS NOTED
 EPROJCT NO.: 1590892
 CONSTR. CONTR. NO.: N40085-20-C-0059
 NAVFAC DRAWING NO.:
 SHEET OF

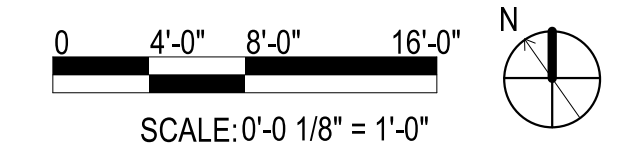
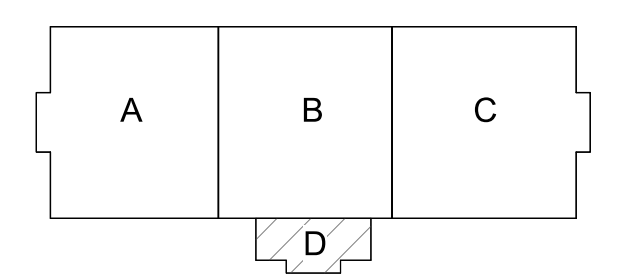
EP114



POWER - FIRST FLOOR PLAN - AREA D

SCALE: 1/8" = 1'-0"

KEYPLAN



SCALE: 0'-0 1/8" = 1'-0"

PLOTTED: 5/28/2021 3:00:56 PM

FILE NAME: BIM 360/HF PACKAGE 3P11338.MEF SIM CTR-1590892-E-1

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GENERAL NOTES

- 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2 ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

- 1 UNDERFLOOR MODULAR POWER MAIN DISTRIBUTION BOX. PREWIRED WITH HOME RUN CABLE BACK TO DESIGNATED RP PANEL WITHIN THE ROOM SERVING. COORDINATE FINAL LOCATION WITH INSTALLATION OF RAISED ACCESS FLOORING AND TELECOMMUNICATIONS CABLE TRAY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FOR MORE INFORMATION SEE SPECIFICATIONS AND DETAIL A1 ON SHEET E-503.

SYMBOL	DESCRIPTION	DATE	APPROVED



100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROSC FLORENCE CAMP LEJEUNE
JACKSONVILLE, NC
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - UNDERFLOOR PLAN - AREA A

SCALE: AS NOTED
EPROJCT NO.: 1590892
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.:
SHEET OF
EP115

FILE NAME: BIM360/HF PACKAGE 3P1338.MEF SIM CTR-1590892-E-A1

PLOTTED: 5/28/2021 3:01:00 PM

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EP116

EP116

EP118

FIRE ROOM 104A

FIRE ROOM 104B

FIRE ROOM 104C

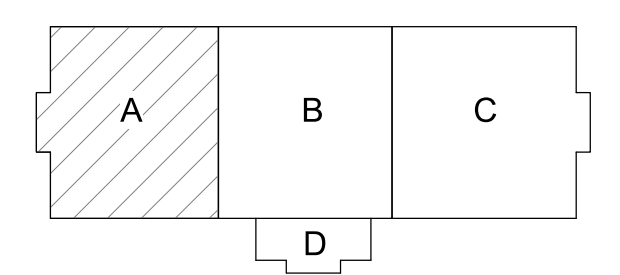
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 RP13-4 RP13-5 RP13-6 RP13-15 RP13-14 RP13-13
 RP13-9 RP13-8 RP13-7 (TYP) RP13-16 RP13-17 RP13-18 (TYP)

RP13-19 RP13-20 RP13-21
 RP13-24 RP13-23 RP13-22
 RP13-25 RP13-26 RP13-27 (TYP)

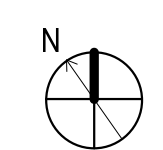
POWER - UNDERFLOOR PLAN - AREA A

SCALE: 1/8" = 1'-0"

KEYPLAN



0 4'-0" 8'-0" 16'-0"
 SCALE: 0'-0 1/8" = 1'-0"



PLOTTED: 5/28/2021 3:01:06 PM

FILE NAME: BIM360/HF PACKAGE 3P1338.MEF SIM CTR-4590892-E-4

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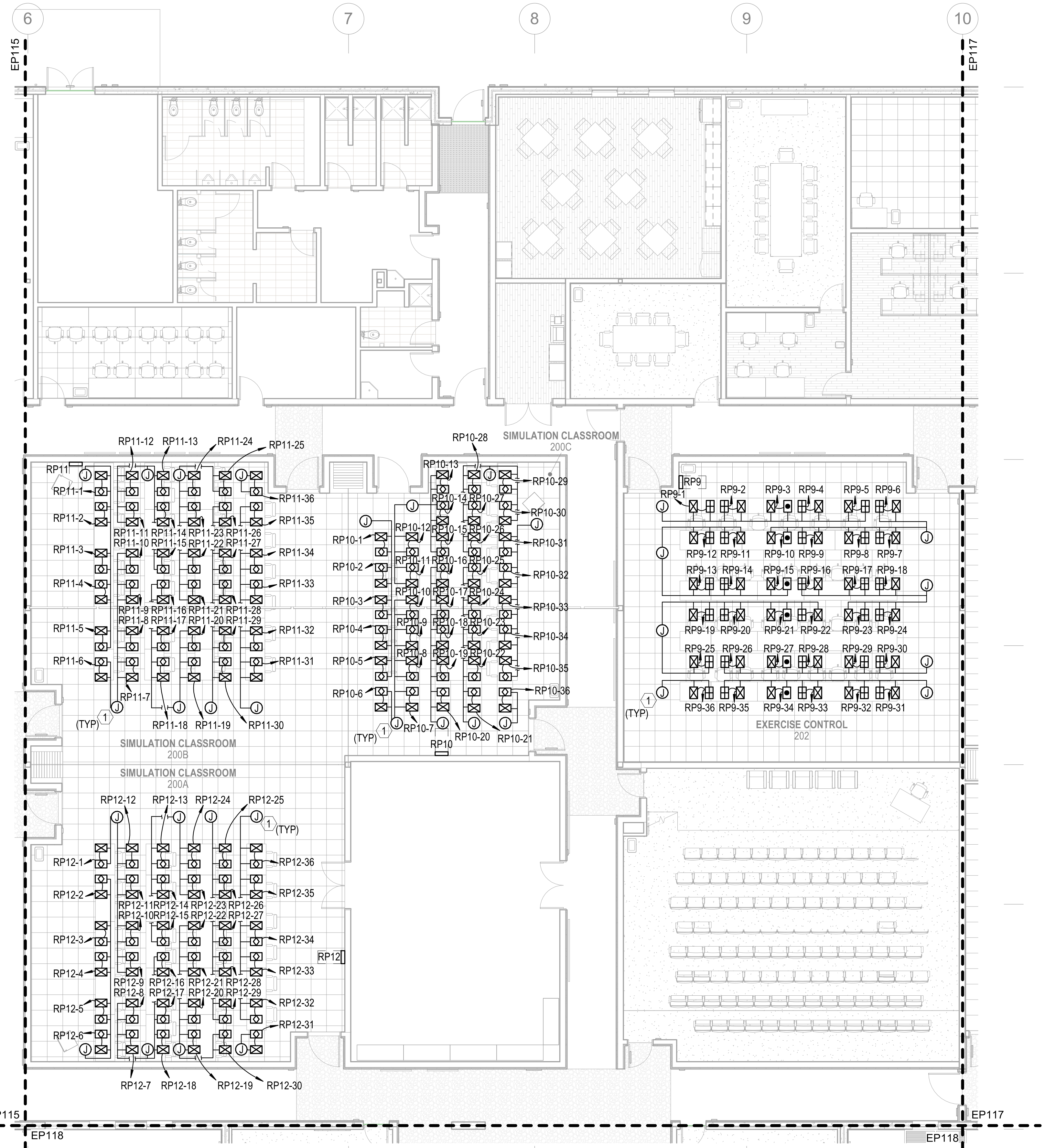
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POWER - UNDERFLOOR PLAN - AREA B

SCALE: 1/8" = 1'-0"

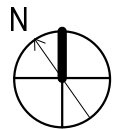
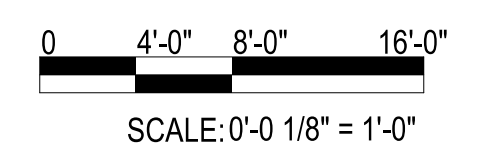
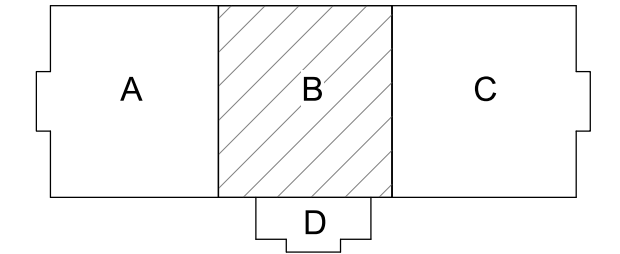
GENERAL NOTES

- SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES

- UNDERFLOOR MODULAR POWER MAIN DISTRIBUTION BOX. PREWIRED WITH HOME RUN CABLE BACK TO DESIGNATED RP PANEL WITHIN THE ROOM SERVING. COORDINATE FINAL LOCATION WITH INSTALLATION OF RAISED ACCESS FLOORING AND TELECOMMUNICATIONS CABLE TRAY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FOR MORE INFORMATION SEE SPECIFICATIONS AND DETAIL A1 ON SHEET E-503.

KEYPLAN



SYMBOL	DESCRIPTION	DATE	APPROVED



FOR COMMANDER NAVFAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE



100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E/IN/P/O
APPROVED

SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROOMS FLORENCE CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - UNDERFLOOR PLAN - AREA B

SCALE: AS NOTED
PROJECT NO.: 1590892
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.:
SHEET OF
EP116

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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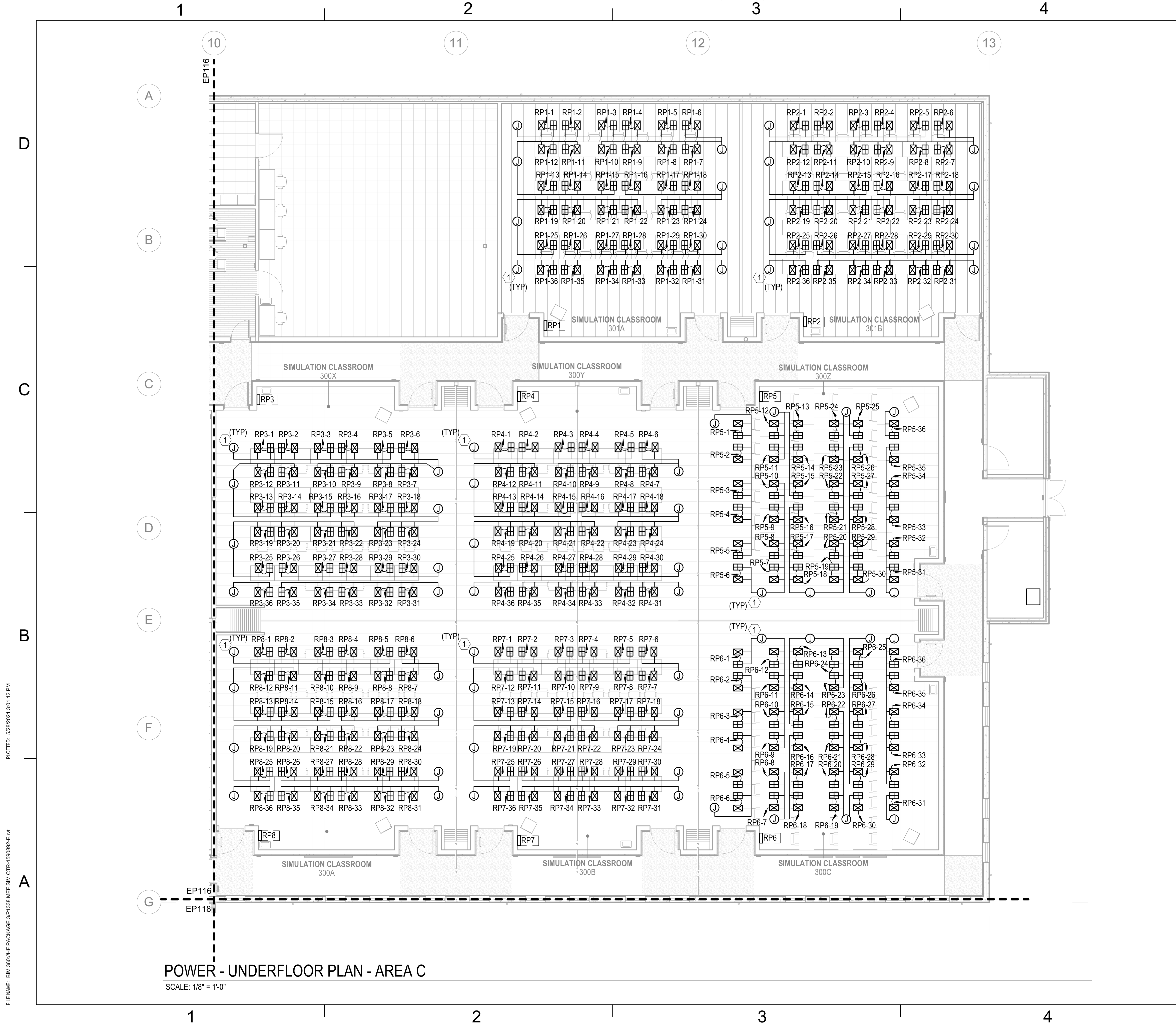
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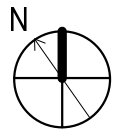
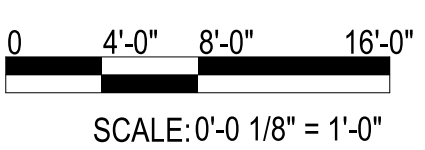
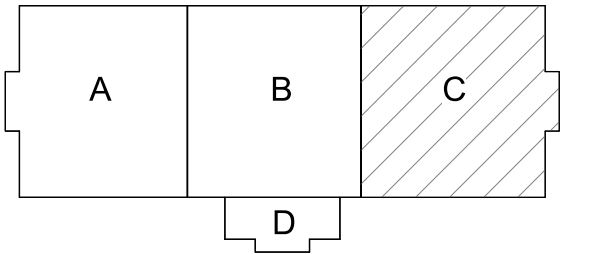


POWER - UNDERFLOOR PLAN - AREA C
SCALE: 1/8" = 1'-0"

GENERAL NOTES
 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
 2 ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES
 1 UNDERFLOOR MODULAR POWER MAIN DISTRIBUTION BOX. PREWIRED WITH HOME RUN CABLE BACK TO DESIGNATED RP PANEL WITHIN THE ROOM SERVING. COORDINATE FINAL LOCATION WITH INSTALLATION OF RAISED ACCESS FLOORING AND TELECOMMUNICATIONS CABLE TRAY. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. FOR MORE INFORMATION SEE SPECIFICATIONS AND DETAIL A1 ON SHEET E-503.

KEYPLAN



APPROVED	DATE	DESCRIPTION
100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED		
FOR COMMANDER NAVFAC ACTIVITY MARINE CORPS BASE CAMP LEJEUNE		
SATISFACTORY TO DATE DES SD DRW LAK CHK YPS		
PM BRANCH MANAGER CHIEF ENGINEER FIRE PROTECTION		
NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC ROIC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT POWER - UNDERFLOOR PLAN - AREA C		
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ROIC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT POWER - UNDERFLOOR PLAN - AREA C		
SCALE: AS NOTED EPROJCT NO.: 1509892 CONSTR. CONTR. NO.: N40085-20-C-0059 NAVFAC DRAWING NO.: SHEET OF		
EP117		

PLOTTED: 5/28/2021 3:01:12 PM

FILE NAME: BIM_360/HF PACKAGE 3P1338.MEF_SIM_CTR-1509892-E-1

UNCLASSIFIED

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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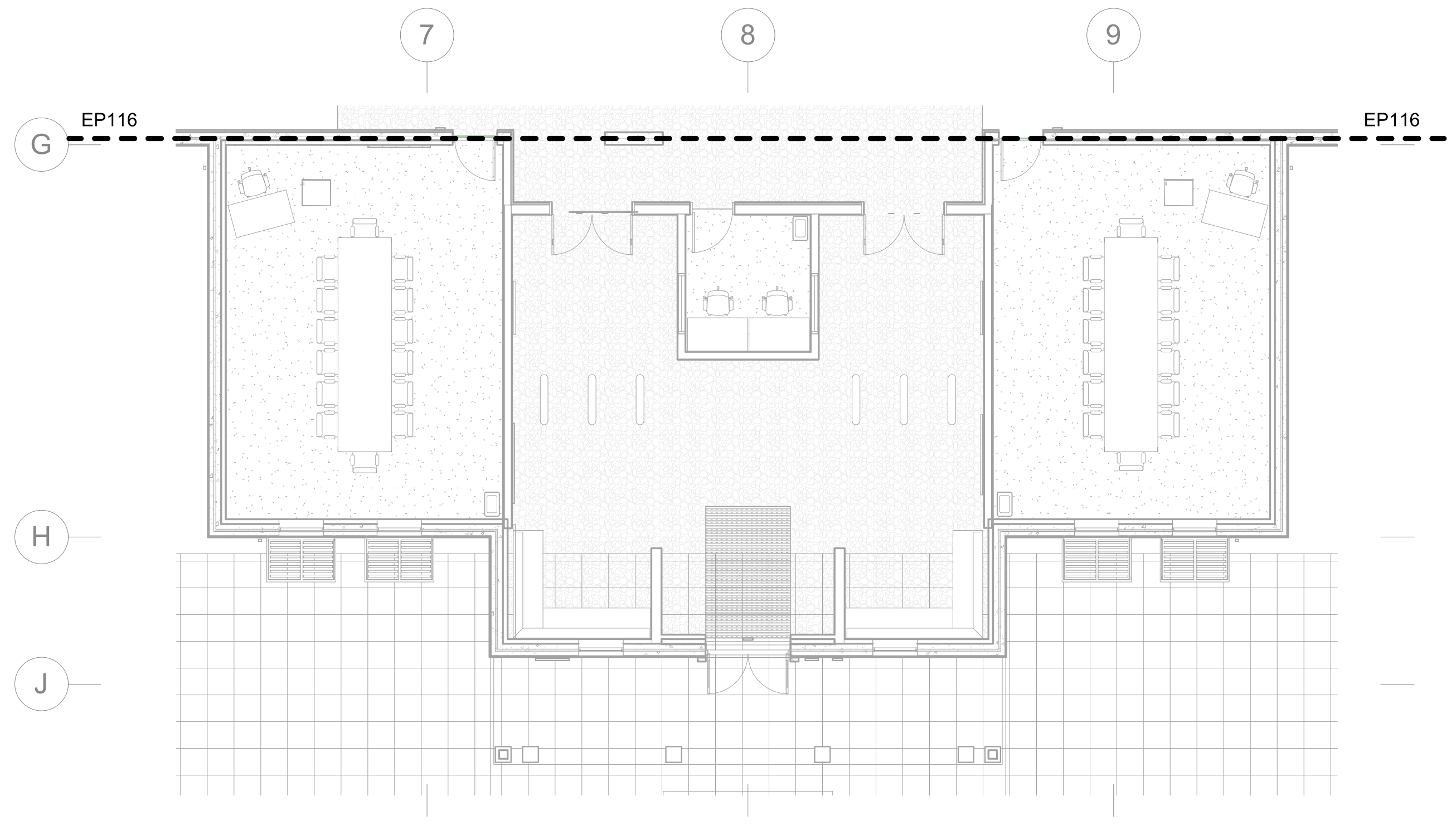
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GENERAL NOTES

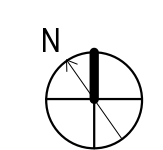
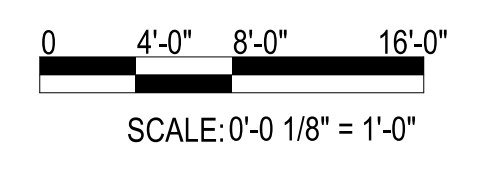
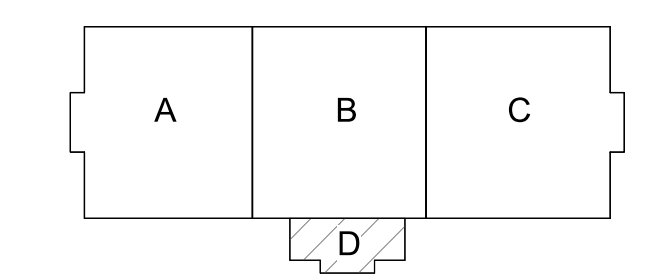
- 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2 ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

KEYNOTES



POWER - UNDERFLOOR PLAN - AREA D
 SCALE: 1/8" = 1'-0"

KEYPLAN



SYMBOL	DESCRIPTION	DATE	APPROVED



Michael Baker INTERNATIONAL
 100 AIRSIDE DRIVE
 MOON TOWNSHIP, PA 15108 A/E/IN/P
 APPROVED

FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE

SATISFACTORY TO DATE
 DES SD DRW LAK CHK YPS
 PM

BRANCH MANAGER
 CHIEF ENGINEER
 FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 JACKSONVILLE, NC
 ROICC FLORENCE CAMP LEJEUNE
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 POWER - UNDERFLOOR PLAN - AREA D

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 JACKSONVILLE, NC
 JACKSONVILLE, NC
 JACKSONVILLE, NC

SCALE: AS NOTED
 EPROJECT NO.: 1590892
 CONSTR. CONTR. NO.
 N40085-20-C-0059
 NAVFAC DRAWING NO.

SHEET OF

EP118

PLOTTED: 5/28/2021 3:01:15 PM

FILE NAME: BIM360/HF PACKAGE 3P1338.MEF SIM CTR-1590892-E-1

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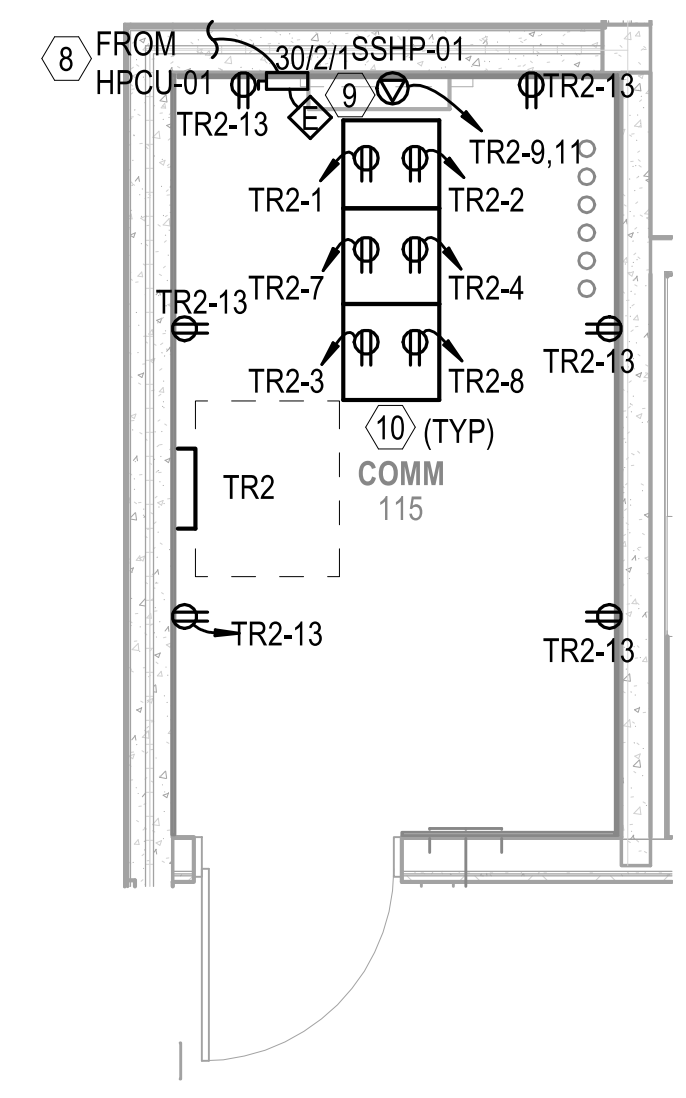
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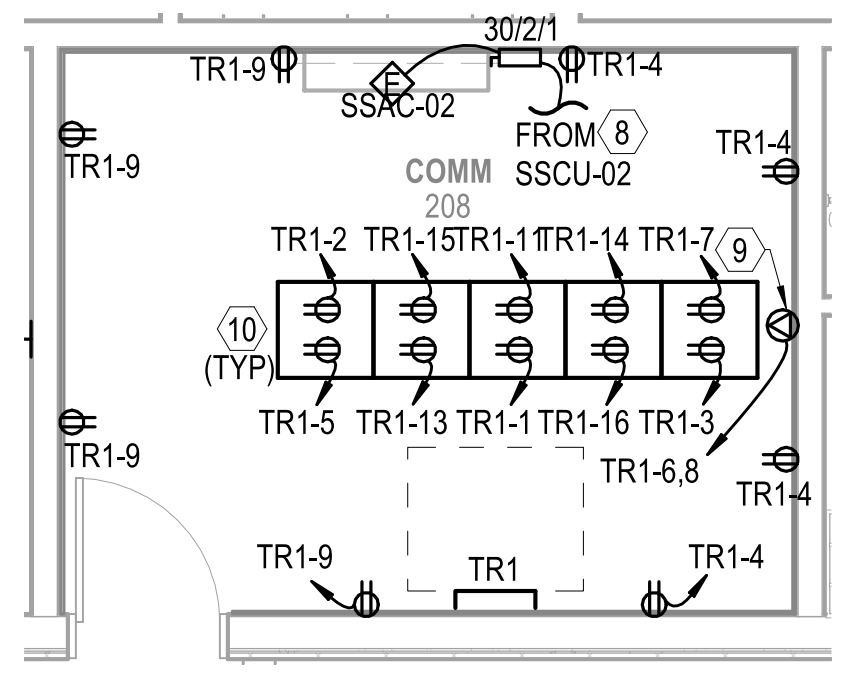


POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0"

EP111

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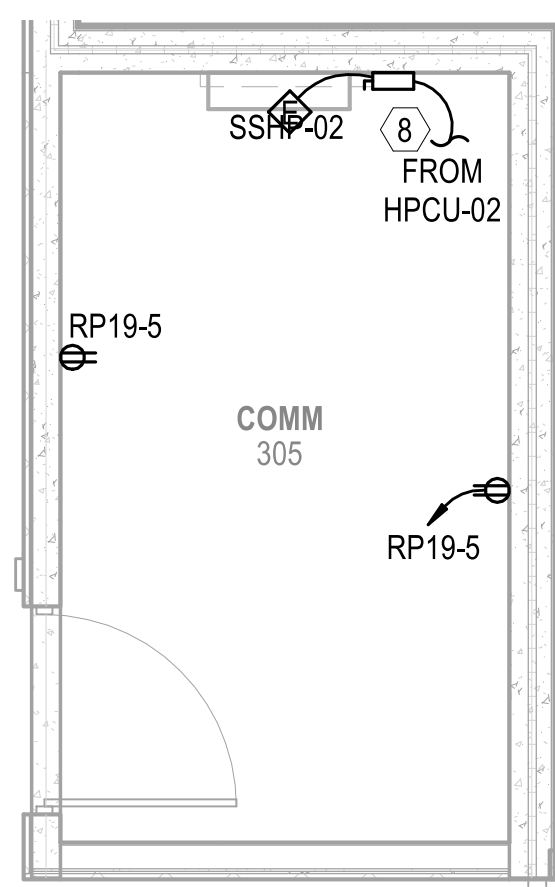


POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0"

EP111

C2



POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0"

EP111

C3

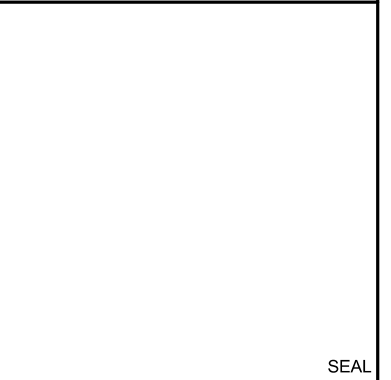
KEYNOTES

- 1 AV RECESSED QUAD RECEPTACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
- 2 NEMA L5-30P PLUG FOR 3KVA UPS INPUT CONNECTION.
- 3 NEMA L5-15P PLUG FOR 1KVA UPS INPUT CONNECTION.
- 4 POWER ELECTRICAL CONNECTION FOR HARDWIRE INPUT TO 10KVA UPS.
- 5 NEMA L5-30R RECEPTACLE FOR 2KVA UPS INPUT CONNECTION.
- 6 PROVIDE 4-INCH THICK CONCRETE PAD WITH CHAMFERED EDGES FOR FLOOR MOUNTED EQUIPMENT. EXTEND PAD 6-INCH BEYOND EDGE OF EQUIPMENT.
- 7 PROVIDE FIRE-RESISTANT, HEAT-INSULATING BARRIER. COORDINATE WITH FINAL LOCATION OF TRANSFORMER.
- 8 INDOOR UNIT POWERED BY OUTDOOR UNIT. CONTROL WIRING BETWEEN INDOOR AND OUTDOOR UNITS BY MECHANICAL CONTRACTOR. CONDUIT AND POWER WIRING BETWEEN INDOOR AND OUTDOOR UNITS BY ELECTRICAL CONTRACTOR. SEE MECH. SCHEDULES FOR ADDITIONAL INFORMATION.
- 9 L6-30R TWIST LOCK RECEPTACLE - 208V, 1PH, 30A. RECEPTACLE MUST BE INSTALLED 6" ABOVE AND 6" BEHIND TELECOM RACKS ON ITS OWN DEDICATED STRUCTURE.
- 10 TWO (2) DEDICATED 20AMP DUPLEX RECEPTACLES PER TELECOMMUNICATIONS RACK. COORDINATE MOUNTING AND INSTALLATION OF THE RECEPTACLES WITH THE ACTIVITY.
- 11 TWO (2) DEDICATED 20AMP DUPLEX RECEPTACLES PER SERVER RACK. COORDINATE MOUNTING AND INSTALLATION OF THE RECEPTACLES WITH THE ACTIVITY.
- 12 JUNCTION BOX FOR LOUVER LOW VOLTAGE POWER. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.

GENERAL NOTES

- 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2 ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

SYMBOL	DESCRIPTION	DATE	APPROVED



FOR COMMANDER NAVFAC
 ACTIVITY
 MARINE CORPS BASE
 CAMP LEJEUNE

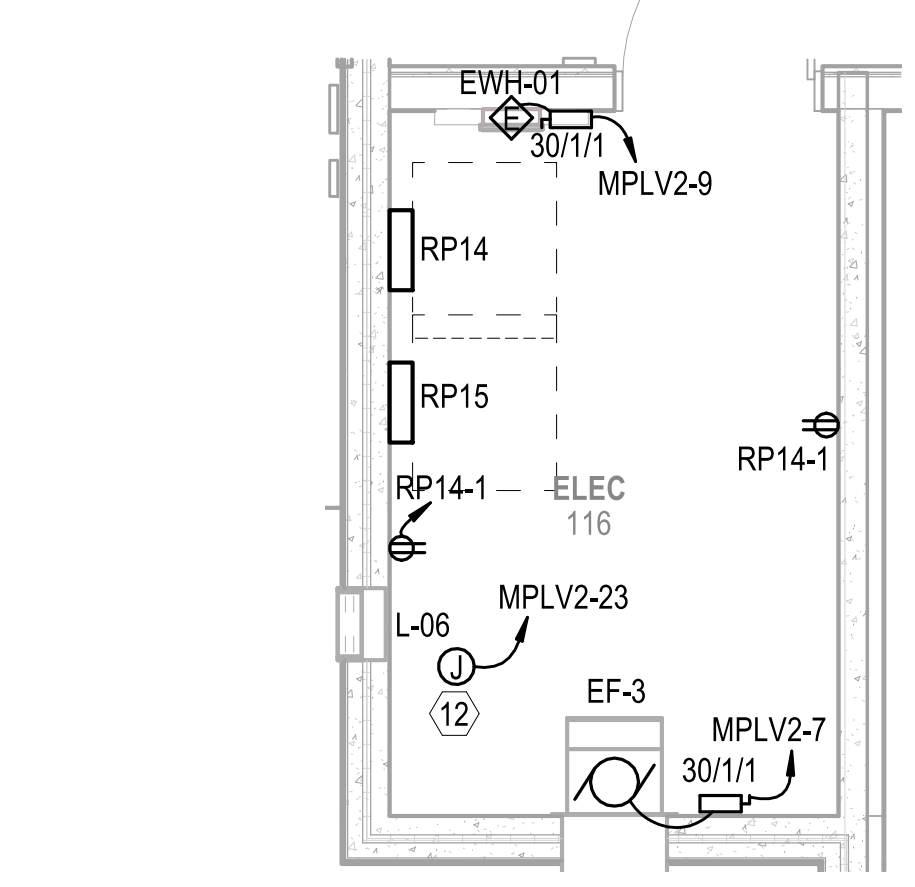
SATISFACTORY TO DATE
 DES SD | DRW LAK | CHK YPS
 PM
 BRANCH MANAGER
 CHIEF ENGINEER
 FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
 ROCC FLORENCE CAMP LEJEUNE
 JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 ELECTRICAL - ENLARGED PLANS

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 ROCC FLORENCE CAMP LEJEUNE
 JACKSONVILLE, NC

SCALE: AS NOTED
 EPROJECT NO.: 1500892
 CONSTR. CONTR. NO.: N40085-20-C-0059
 NAVFAC DRAWING NO.
 SHEET OF
E-401

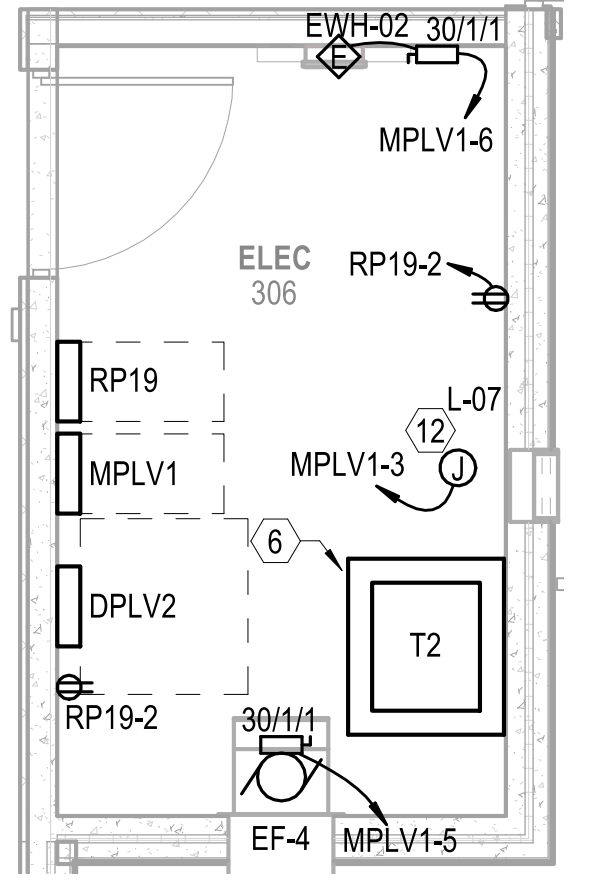


POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0"

EP111

A1

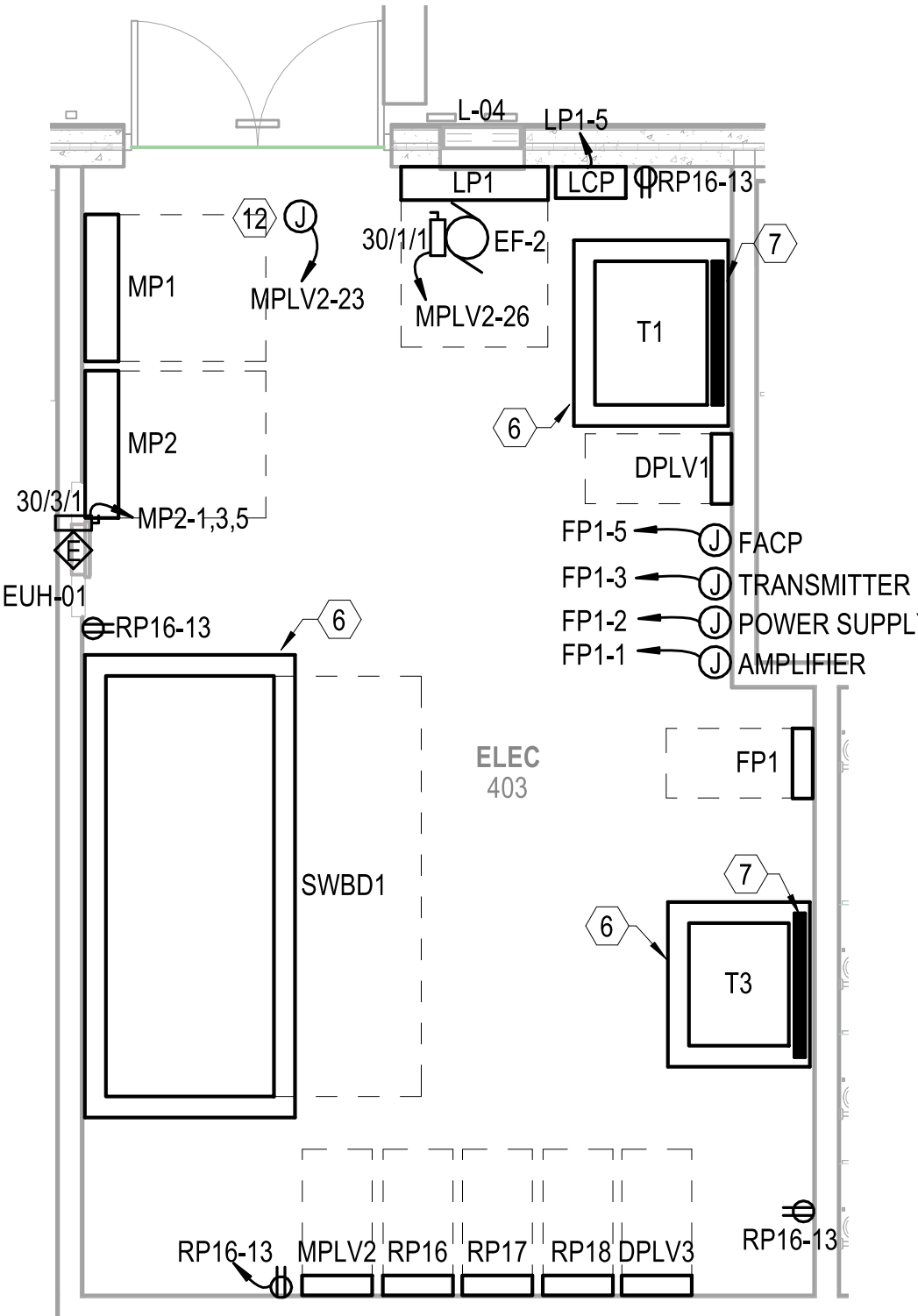


POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0"

EP111

A2

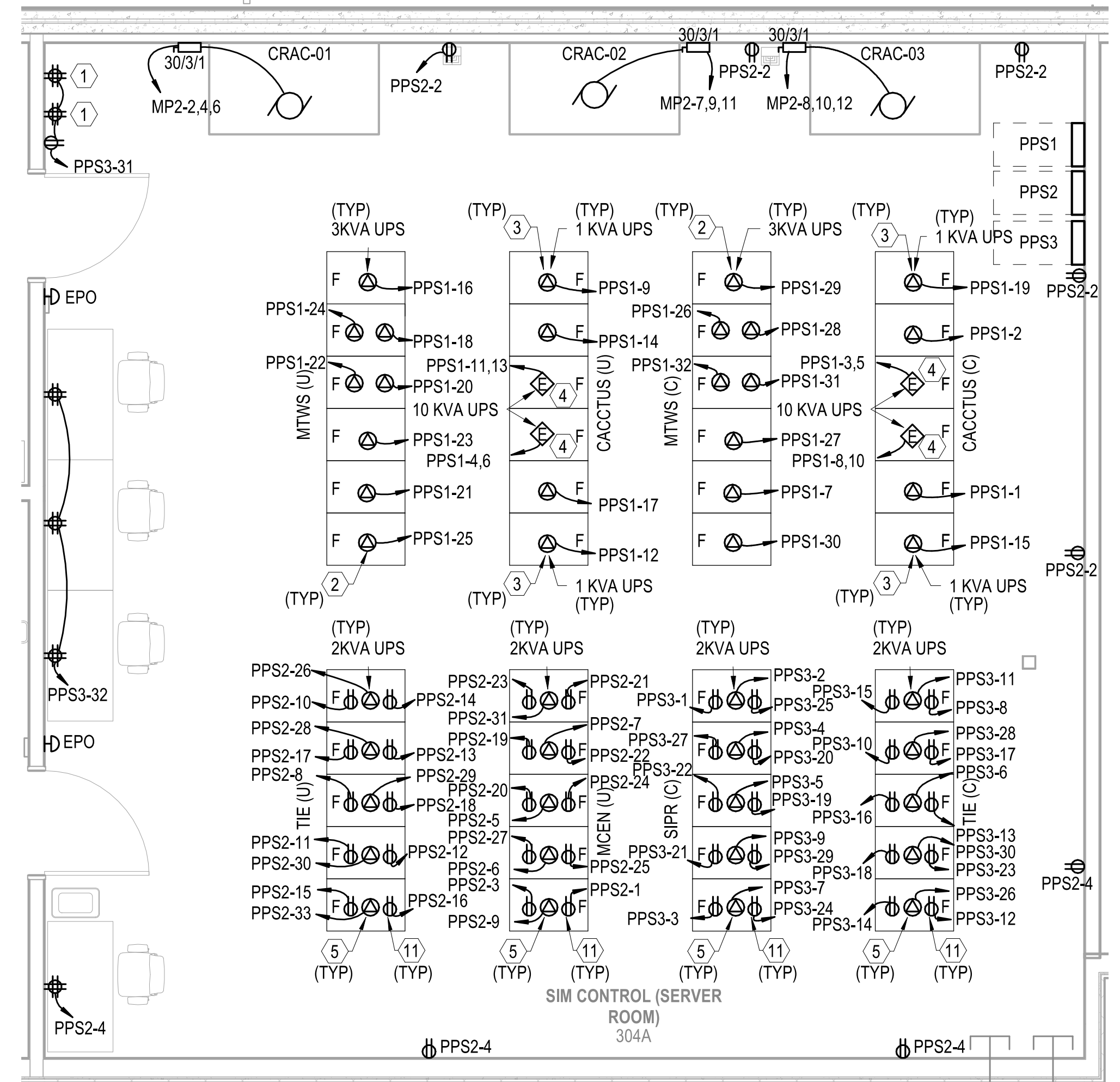


POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0"

EP111

A3

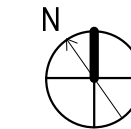
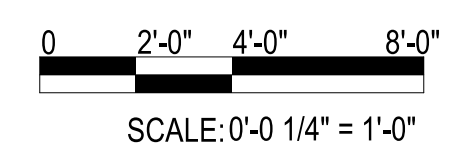


POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0"

EP111

A4



SCALE: 0'-0" 1/4" = 1'-0"

FILE NAME: BIM_360/HF PACKAGE 3P11338.MEF SIM CTR-1500892-E-41

PLotted: 5/28/2021 2:58:27 PM

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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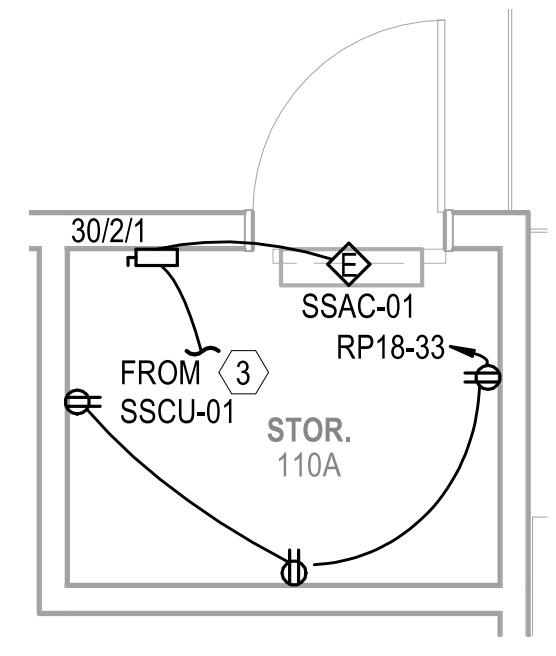
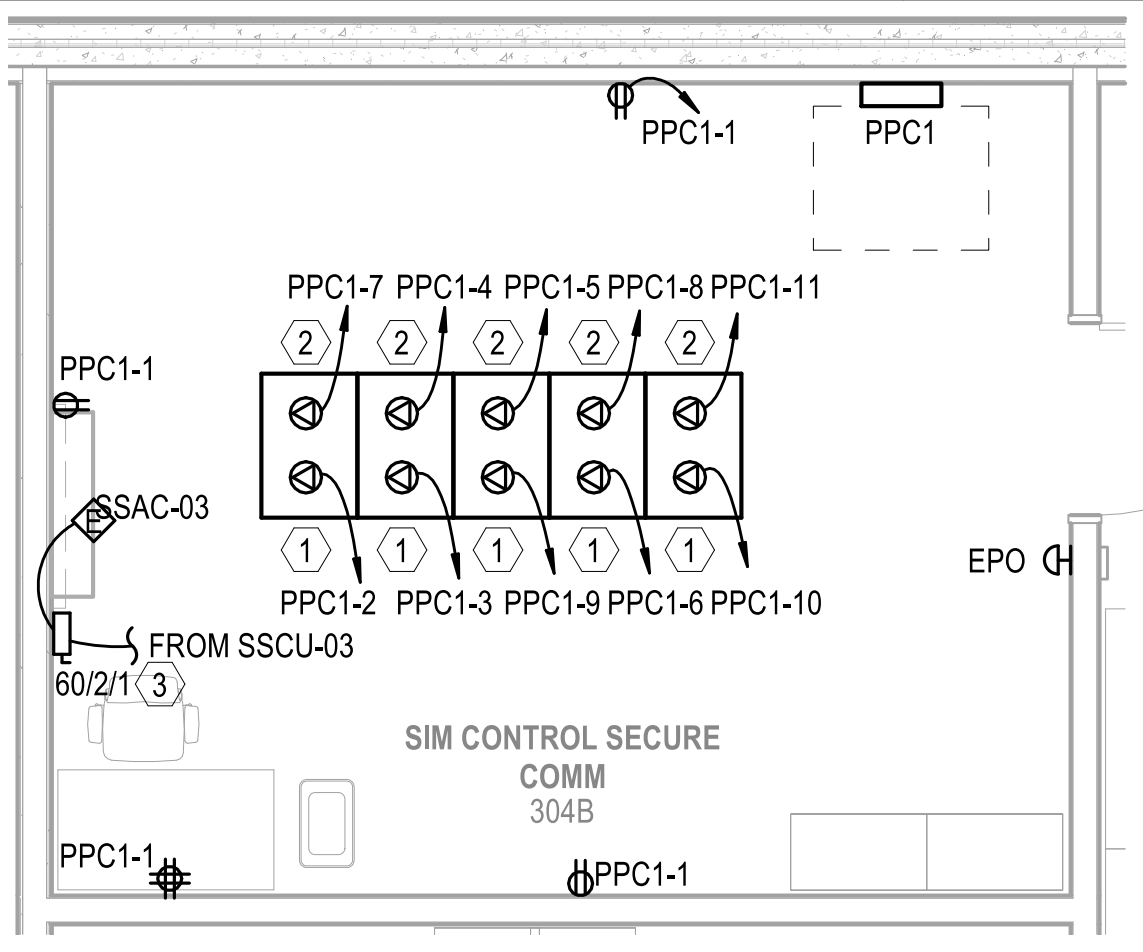
5

KEYNOTES

- 1 NEMA L5-30R RECEPTACLE FOR TELECOMMUNICATIONS RACK. MOUNT RECEPTACLE ABOVE TELECOMMUNICATIONS RACK.
- 2 NEMA 5-20R RECEPTACLE FOR TELECOMMUNICATIONS RACK. MOUNT RECEPTACLE ABOVE TELECOMMUNICATIONS RACK.
- 3 INDOOR UNIT POWERED BY OUTDOOR UNIT. CONTROL WIRING BETWEEN INDOOR AND OUTDOOR UNITS BY MECHANICAL CONTRACTOR. CONDUIT AND POWER WIRING BETWEEN INDOOR AND OUTDOOR UNITS BY ELECTRICAL CONTRACTOR. SEE MECH. SCHEDULES FOR ADDITIONAL INFORMATION.
- 4 PROVIDE EMERGENCY POWER OFF MUSHROOM STYLE PUSH OFF/PULL ON WITH CLEAR COVER. PROVIDE LABEL FOR SWITCH: "EMERGENCY BOILER SHUT OFF SWITCH. PULL TO RESET." COMPLY WITH ALL ASME CSD-1 REQUIREMENTS. CONFIRM LOCATION WITH AUTHORITY HAVING JURISDICTION (AHJ) FOR APPROVAL PRIOR TO INSTALLING.
- 5 CONDUIT BY ELECTRICAL CONTRACTOR. LOW VOLTAGE WIRING BY OTHERS.
- 6 ELECTRICAL CONNECTION FOR CHILLER HEAT TRACING. COORDINATE EXACT LOCATION WITH MECHANICAL DRAWINGS PRIOR TO ROUGH IN.
- 7 PROVIDE 120V POWER CONNECTION FOR DDC CONTROLLER. COORDINATE EXACT LOCATION WITH MECHANICAL/CONTROLS CONTRACTOR PRIOR TO ROUGH IN.
- 8 JUNCTION BOX FOR LOUVER LOW VOLTAGE POWER. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.

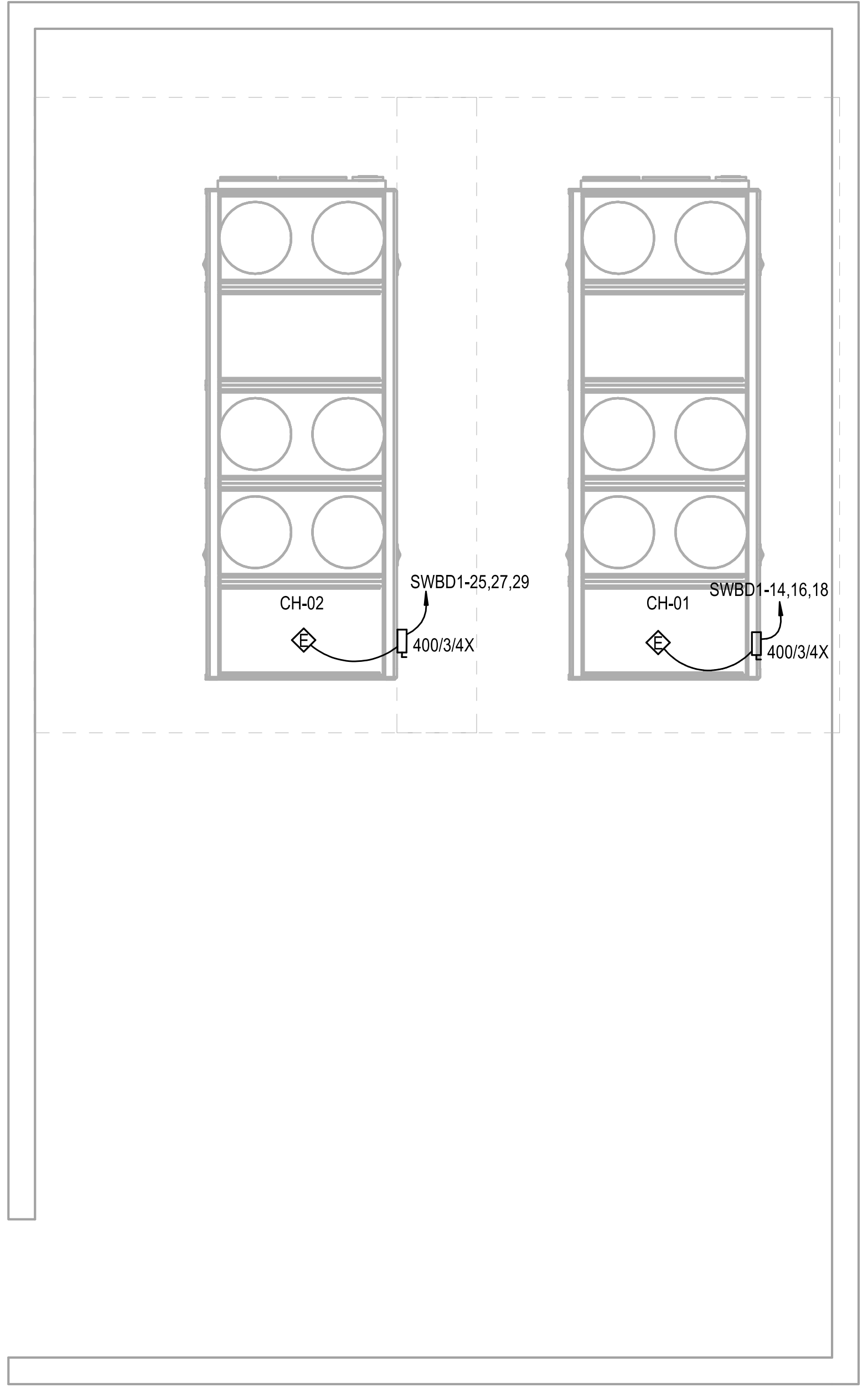
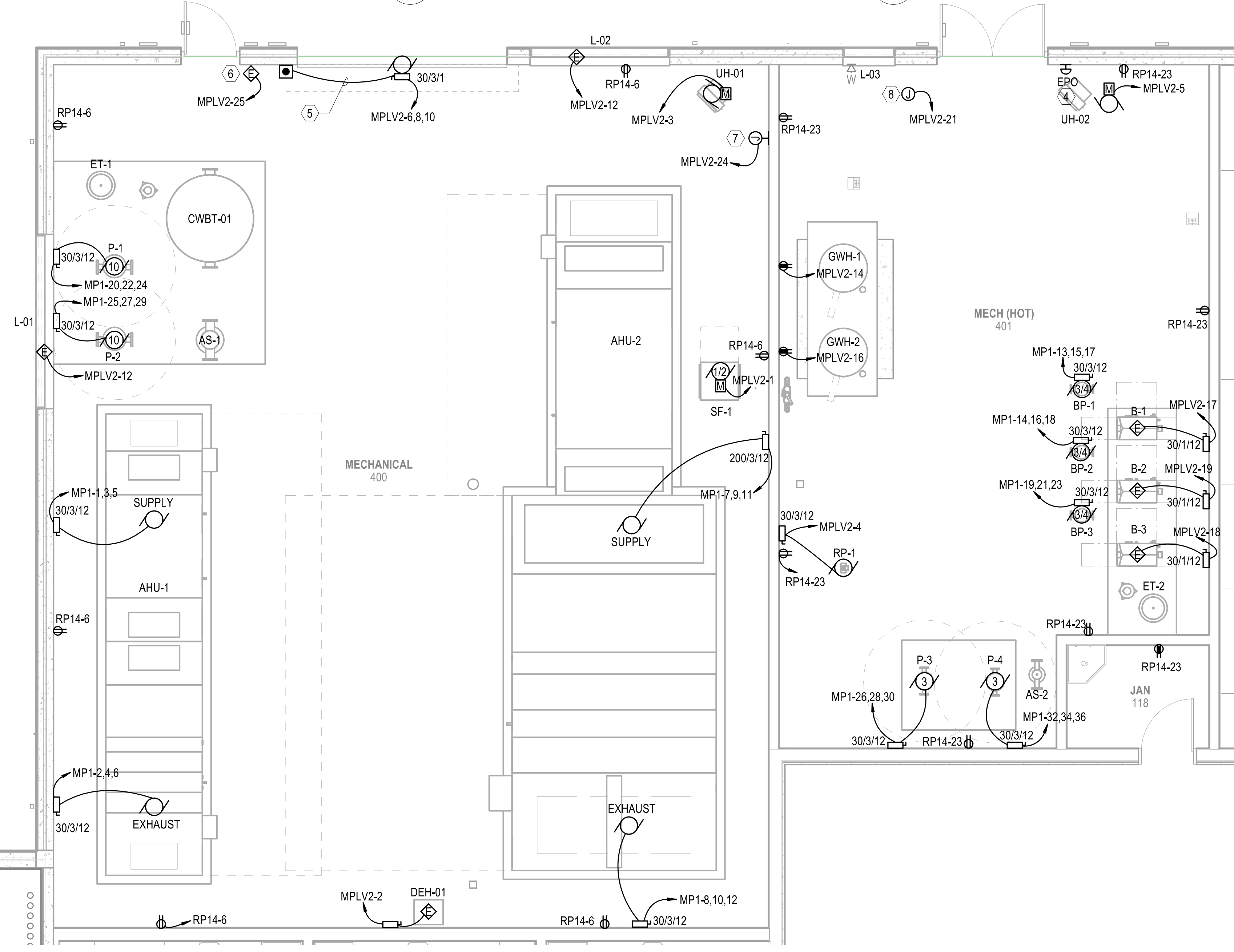
GENERAL NOTES

- 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2 ALL FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.



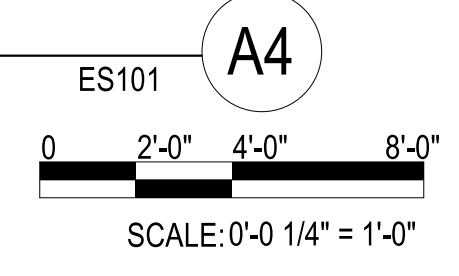
POWER - ENLARGED PLAN
SCALE: 1/4" = 1'-0"

POWER - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



POWER - ENLARGED PLAN
SCALE: 1/4" = 1'-0"

POWER - ENLARGED PLAN
SCALE: 1/4" = 1'-0"



SYMBOL	DESCRIPTION	DATE	APPROVED



Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROSC FLORENCE CAMP LEJEUNE
MBC CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - ENLARGED PLANS

SCALE:	AS NOTED
EPROJECT NO.:	1590892
CONSTR. CONTR. NO.:	N40085-20-C-0059
NAVFAC DRAWING NO.:	
SHEET	OF
E-402	

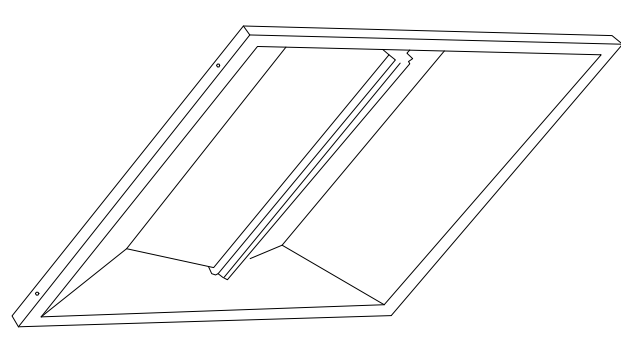
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DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

UNCLASSIFIED

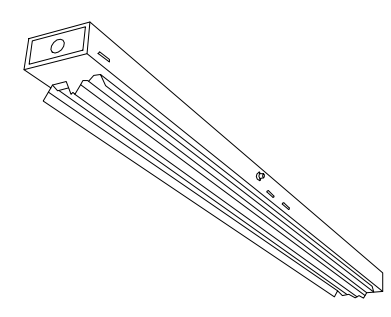
FIXTURE: A1, A2, A3, B1, C1



LUMINAIRE REQUIREMENTS:

- 1. HOUSING - DIE-FORMED, COLD ROLLED STEEL, WITH ONE-PIECE LOWER REFLECTOR HAVING TEXTURED, HIGH REFLECTANCE, WHITE POLYESTER POWDER-COATED FINISH. OPTIONAL SIZES OF 1FT x 4FT, 2FT x 2FT, AND 2FT x 4FT AVAILABLE.
- 2. LIGHT SOURCE - UPWARD-FACING LEDS WITH DIFFUSE LENS TO ELIMINATE DIRECT VIEW OF LIGHT SOURCE. 4000K COLOR TEMPERATURE UON, MAXIMUM BINNING TOLERANCE OF A 4-STEP MCADAM ELLIPSE, MINIMUM EFFICACY OF 90 LUMENS/WATT, WITH A MINIMUM CRI OF 82. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
- 3. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED IN LUMINAIRE SCHEDULE.
- 4. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. IC RATED WHEN INDICATED.
- 5. MOUNTING - RECESSED IN SUSPENDED ACOUSTICAL TILE OR HARD CEILING.
- 6. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

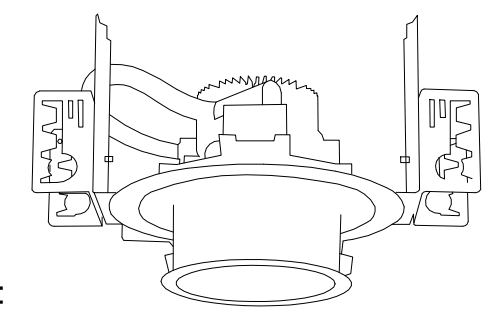
FIXTURE: E1, S1



LUMINAIRE REQUIREMENTS:

- 1. HOUSING - DIE-FORMED, COLD-ROLLED STEEL, WITH REINFORCEMENT RIBS FOR RIGIDITY AND SPECULAR ALUMINUM OR HIGHLY-REFLECTIVE PAINTED STEEL REFLECTORS. OPTIONAL LENGTHS OF 4FT OR 8FT.
- 2. FINISH - MULTI-STAGE PHOSPHATE BONDING TREATMENT FINISHED WITH HIGH-REFLECTANCE, WHITE POLYESTER POWDER COAT, PAINTED AFTER FABRICATION.
- 3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 4000K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 100 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
- 4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
- 5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
- 6. MOUNTING - SURFACE ON CEILING OR SUSPENDED
- 7. OPTIONS - WIRE GUARD, CHAIN, STEM OR SWIVEL STEM HANGERS.
- 8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

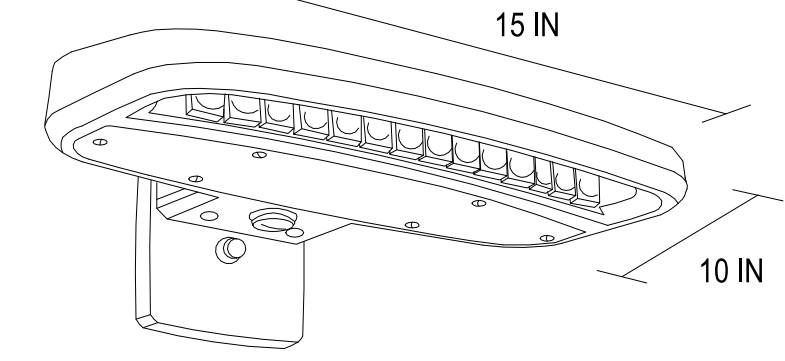
FIXTURE: D1, D2, D3, D4, D5



LUMINAIRE REQUIREMENTS:

- 1. HOUSING - DIE-FORMED, COLD-ROLLED STEEL, OR FORGED ALUMINUM WITH HEAT SINK. DRIVER MUST BE ACCESSIBLE FROM BOTTOM OF LUMINAIRE. PROVIDE T-BAR HANGERS FOR INSTALLATION IN ACOUSTICAL TILE CEILINGS OR TABS WHEN MOUNTING IN HARD CEILINGS.
- 2. REFLECTOR AND TRIM - SPECIFICATION GRADE, LOW IRRIDESCENT, SPECULAR ALUMINUM REFLECTOR WITH METALLIC OR PAINTED TRIM RING.
- 3. LIGHT SOURCE - SOLID STATE LEDS WITH MINIMUM 50K HOURS RATED LIFE AT L70, 4000K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 90 LUMENS/WATT. INITIAL LUMEN OUTPUT AS INDICATED IN LUMINAIRE SCHEDULE.
- 4. DRIVER - REPLACEABLE, INTEGRAL, HIGH-EFFICIENCY DRIVER WITH MINIMUM 0.9 PF, OPERATING VOLTAGE OF 120-277V, THERMAL MANAGEMENT, < 20% TOTAL HARMONIC DISTORTION. ON-OFF CONTROL, STEP-DIMMABLE OR FULLY DIMMABLE AS INDICATED.
- 5. CERTIFICATION - UL 1598, DAMP LOCATION, DLC QUALIFIED, AND ROHS COMPLIANT. COMPLIES WITH LM79, LM80 AND TM21 TESTING STANDARDS. UL 924 WHEN EQUIPPED WITH EMERGENCY BATTERY BACK-UP.
- 6. MOUNTING - RECESSED IN HARD OR ACOUSTICAL TILE CEILING.
- 7. OPTIONS - EMERGENCY BATTERY BACK-UP, WALL-WASH TRIM, IC RATED FOR DIRECT CONTACT WITH INSULATION, VARIOUS APERTURE DIAMETERS, AND VARIOUS GLASS LENSES.
- 8. THIS SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS. IT IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER OR PREFERENCE.

FIXTURE: W1



LUMINAIRE REQUIREMENTS:

- 1. HOUSING - DIE-CAST OR EXTRUDED ALUMINUM WITH INTEGRAL PASSIVE COOLING MECHANISM. HEAT SINK SHALL BE INCORPORATED DIRECTLY INTO HOUSING OR DRIVER COMPARTMENT TO ENSURE MAXIMUM HEAT TRANSFER AND DISSIPATION.
- 2. FINISH - MULTI-STAGE PRE-TREATMENT, FINISHED WITH BAKED-ON POLYESTER POWDER COAT. FINISH SHALL PASS 2500 HOUR SALT SPRAY TEST PER ASTM B117. STANDARD FINISH IS DARK BRONZE, WITH OTHER CUSTOM COLORS AVAILABLE.
- 3. POWER SUPPLY/LED DRIVER - CLASS 1 DRIVER SHALL OPERATE AT 120/277 VOLTS, 50/60 HZ, WITH OTHER VOLTAGES OPTIONAL; POWER FACTOR GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. MINIMUM EFFICACY SHALL BE 60 LM/W AT MAXIMUM 600mA OPERATING CURRENT.
- 4. LED OPTICAL ASSEMBLY - PRECISION MOLDED ACRYLIC LENS PROVIDED FOR MULTIPLE HIGH-POWERED LEDS PRODUCING NEMA TYPE III DISTRIBUTION OR AS OTHERWISE INDICATED. BUG UPLIGHT RATING OF U0, WITH GLARE RATING AS DETERMINED BY LIGHTING ZONE INSTALLED. MINIMUM COLOR RENDERING INDEX (CRI) SHALL BE 70 FOR CORRELATED COLOR TEMPERATURE (CCT) OF 4000-4500 DEGREES K.
- 5. CERTIFICATION - UL AND/OR ETL LISTED FOR DAMP OR WET LOCATIONS AS INDICATED, AND ROHS COMPLIANT.
- 6. OPTIONS - VARIOUS LUMEN OUTPUT RATING AS INDICATED, PHOTOCELL, AND 0-10 VOLT DIMMING DRIVER.
- 7. OTHER - THE ABOVE SKETCH IS A NON-PROPRIETARY GRAPHIC REPRESENTATION OF A LUMINAIRE THAT MAY MEET THE SPECIFICATION REQUIREMENTS AND IS NOT INTENDED TO INDICATE A CERTAIN MANUFACTURER'S PREFERENCE. ALL DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

DIRECT/INDIRECT LED TROFFER

REVISED: APRIL 2016 LIGHTING PLATE: NL-1

LED INDUSTRIAL STRIP

REVISED: APRIL 2016 LIGHTING PLATE: NL-7

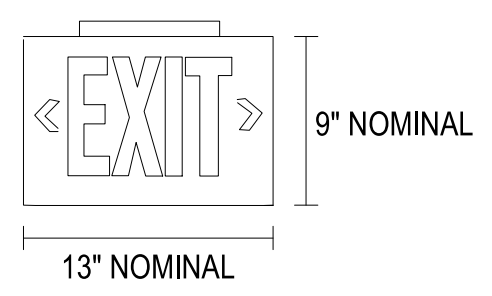
LED RECESSED DOWNLIGHT

REVISED: APRIL 2016 LIGHTING PLATE: NL-19

LED WALL PACK

REVISED: MARCH 2013 LIGHTING PLATE: XL-17

FIXTURE: EX



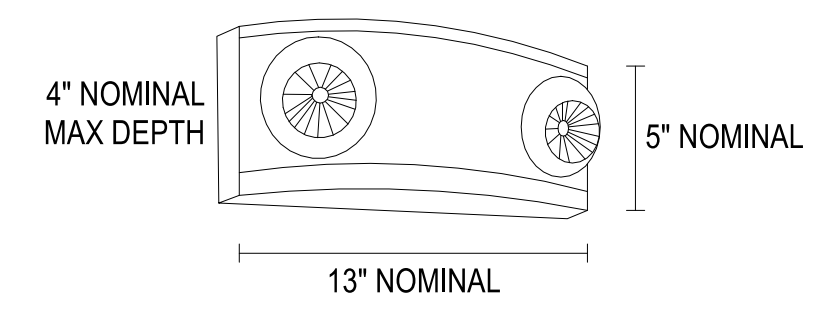
LUMINAIRE REQUIREMENTS:

- 1. HOUSING - HIGH-IMPACT, UV-STABILIZED, INJECTION-MOLDED THERMOPLASTIC. SINGLE OR DOUBLE-FACED AS INDICATED.
- 2. LETTERS/CHEVRONS - MINIMUM 6" HIGH WITH 3/4" STROKE. RED OR GREEN LETTERS AS INDICATED. PROVIDE CHEVRONS AS INDICATED EITHER LEFT, RIGHT, OR BOTH DIRECTIONS AS INDICATED. CHEVRONS PUNCHED OUT THROUGH HOUSING AS REQUIRED.
- 3. EMERGENCY PACK - SOLID-STATE, CONSTANT-CURRENT TYPE BATTERY CHARGER WITH MAINTENANCE-FREE, NICKEL-CADMIUM BATTERY, AC-ON INDICATOR LAMP AND TEST SWITCH.
- 4. MOUNTING - UNIVERSAL MOUNTING KIT FOR CEILING, WALL, OR END OF FIXTURE MOUNTING.
- 5. ILLUMINATION - PROVIDED BY RED, GREEN, OR WHITE HIGH-OUTPUT LEDS INSIDE OF FIXTURE HOUSING. PROVIDE POLYSTYRENE DIFFUSER IN COLOR INDICATED WITH FREQUENCY-MATCHED SILKSCREEN COATING FOR MAXIMUM LED LIGHT OUTPUT.
- 6. CERTIFICATION - UL LISTED AND CERTIFIED FOR DAMP LOCATIONS.

LED EXIT SIGN

REVISED: AUGUST 2004 LIGHTING PLATE: NL-63

FIXTURE: ELU





LUMINAIRE REQUIREMENTS:

- 1. HOUSING - UV STABLE, FLAME-RATED, HIGH-IMPACT THERMOPLASTIC IN WHITE OR BLACK TEXTURED FINISH.
- 2. INTERNAL COMPONENTS - FULLY AUTOMATIC, SOLID STATE, CONSTANT VOLTAGE, CURRENT-LIMITED BATTERY CHARGER; MAINTENANCE-FREE LEAD-ACID BATTERY; AND BUILT-IN OVERLOAD AND LOW-VOLTAGE BATTERY PROTECTION.
- 3. EXTERIOR HOUSING INDICATORS - LED AC-ON INDICATOR AND INTEGRAL TEST SWITCH.
- 4. LAMP HEADS - UV STABLE, FLAME RATED POLYCARBONATE THERMOPLASTIC. MR16 HALOGEN LAMPS SHALL BE 5 WATTS, HIGH-OUTPUT, OR AS INDICATED IN LIGHTING FIXTURE SCHEDULE.
- 5. MOUNTING - DIRECTLY TO 4" OCTAGONAL OR SQUARE OUTLET BOX.
- 6. CERTIFICATION - UL LISTED AND LABELED. COMPLIES WITH UL 924 AND NFPA 101 REQUIREMENTS. LISTED FOR DAMP LOCATIONS.
- 7. OPTIONS - VOLTMETER, VANDEL-RESISTANT SHIELD, SELF-DIAGNOSTIC/TESTING ELECTRONICS, AND WIRE GUARD

DECORATIVE EMERGENCY LIGHTING UNIT

REVISED: AUGUST 2004 LIGHTING PLATE: NL-67

FILE NAME: BIM_360/IFE PACKAGE 3P1338.MEF_SIM CTR-1590892-E-14
PLOTTED: 5/28/2021 2:58:32 PM

SYMBOL	DESCRIPTION	DATE	APPR
			
			
Michael Baker International <small>100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 A/E IN/PD</small>			
APPROVED			
FOR COMMANDER NAVFAC			
ACTIVITY			
MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE			
DES SD	DRW LAK	CHK YPS	PM
BRANCH MANAGER			
CHIEF ENGINEER			
FIRE PROTECTION			
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC <small>ROICC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC</small> MCB CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT ELECTRICAL - DETAILS			
SCALE: AS NOTED			
EPROJCT NO.: 1590892			
CONSTR. CONTR. NO. N40085-20-C-0059			
NAVFAC DRAWING NO.			
SHEET OF			
E-501			

UNCLASSIFIED

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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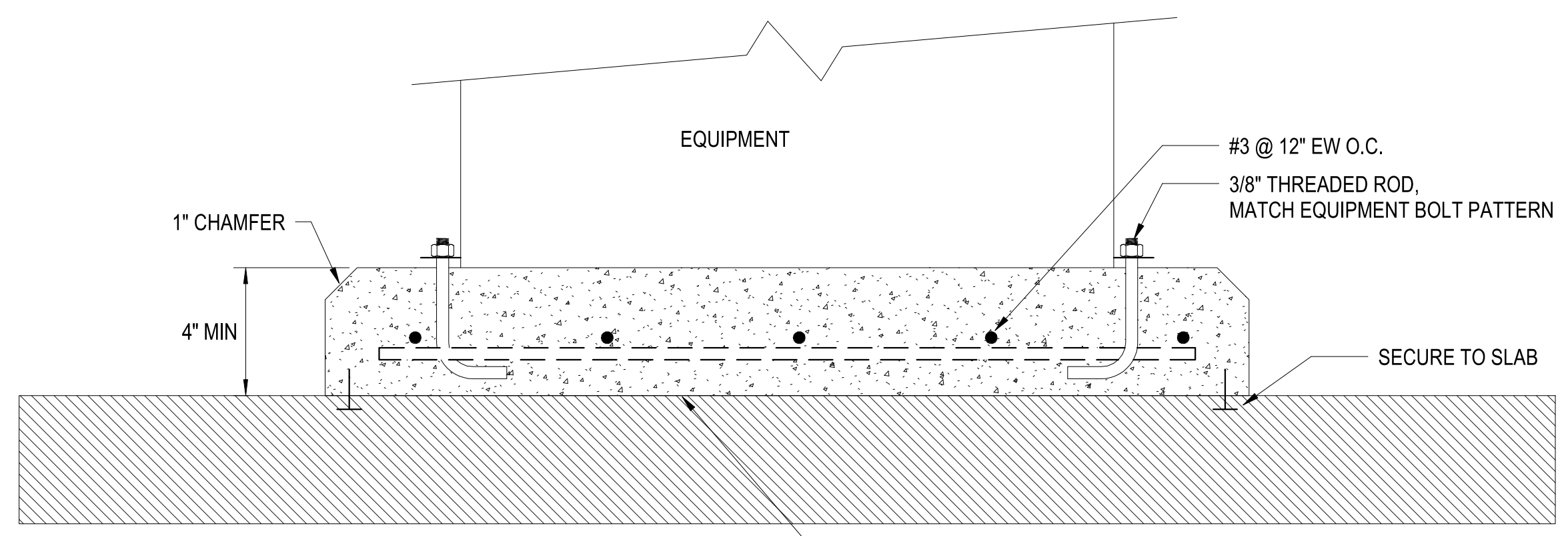
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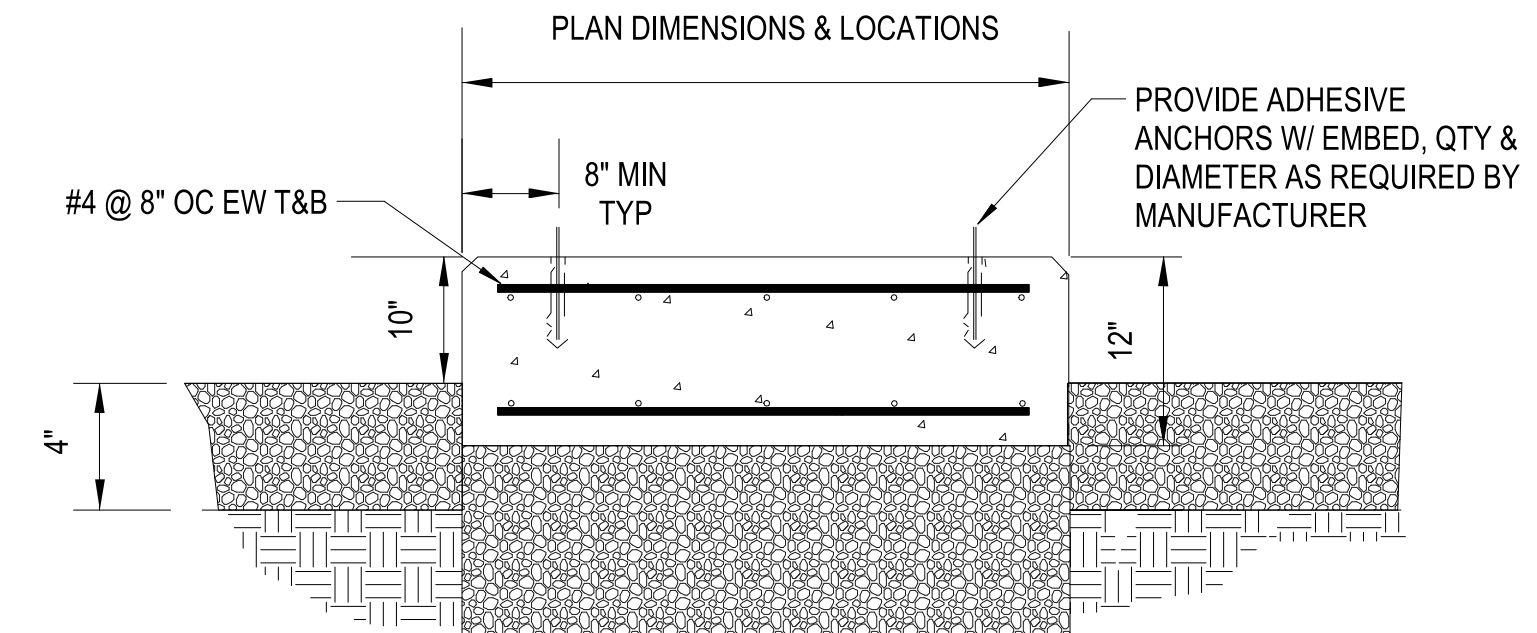
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TYPICAL EQUIPMENT PAD DETAIL

SCALE:NTS

C1

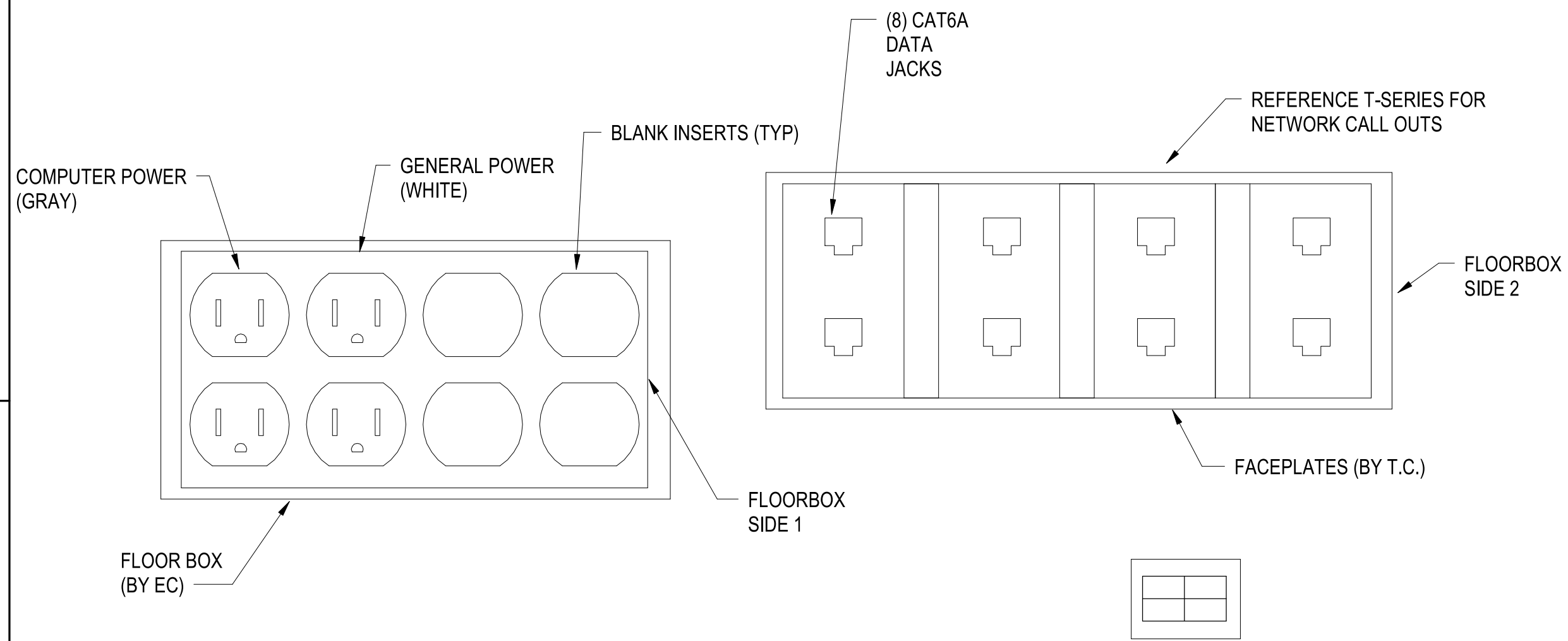


GENERATOR PAD DETAIL

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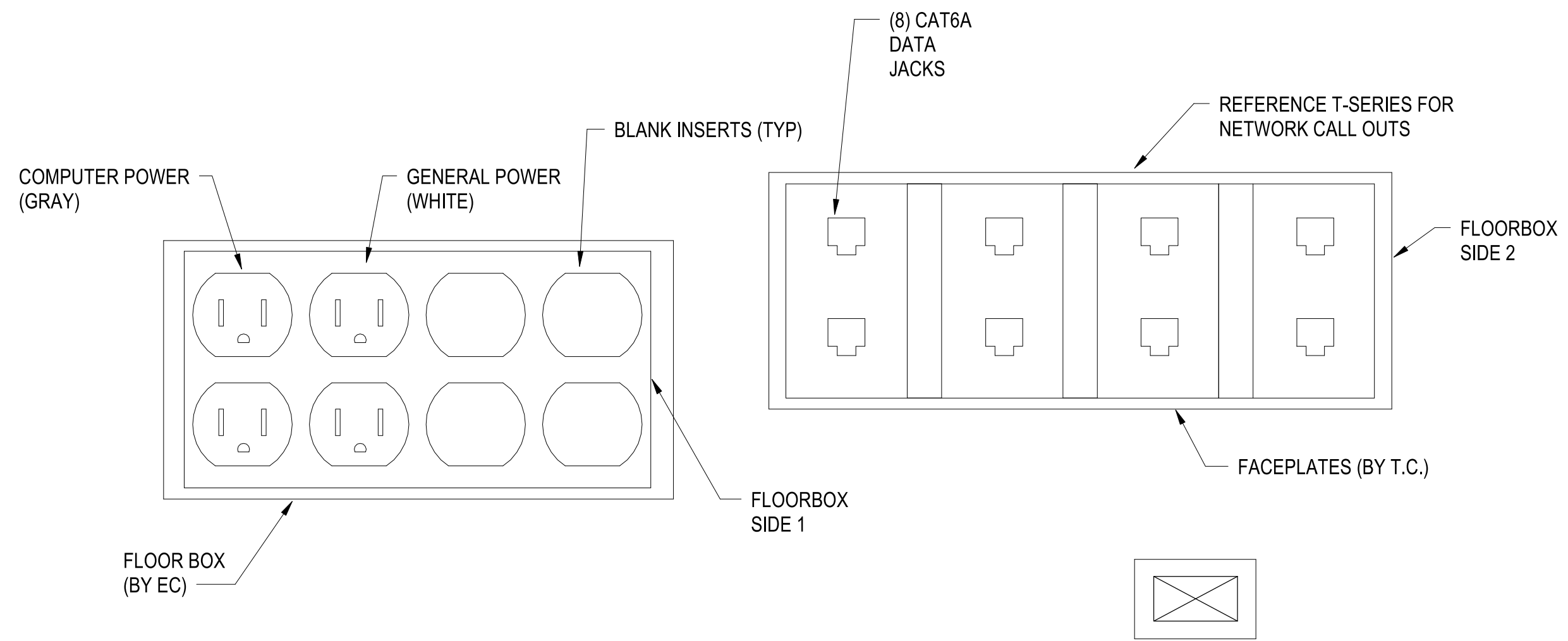
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TYPICAL FLOORBOX FACEPLATES - CLASSIFIED

SCALE:NTS

C3



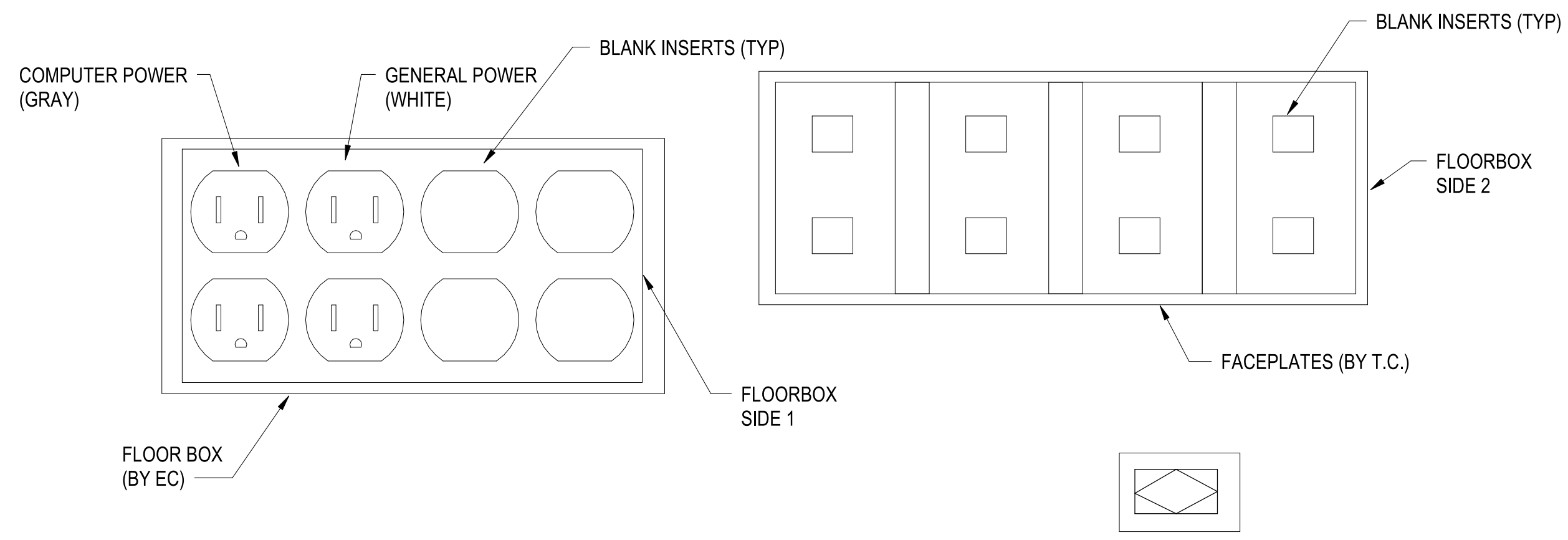
TYPICAL FLOORBOX FACEPLATES - UNCLASSIFIED

SCALE:NTS

B3

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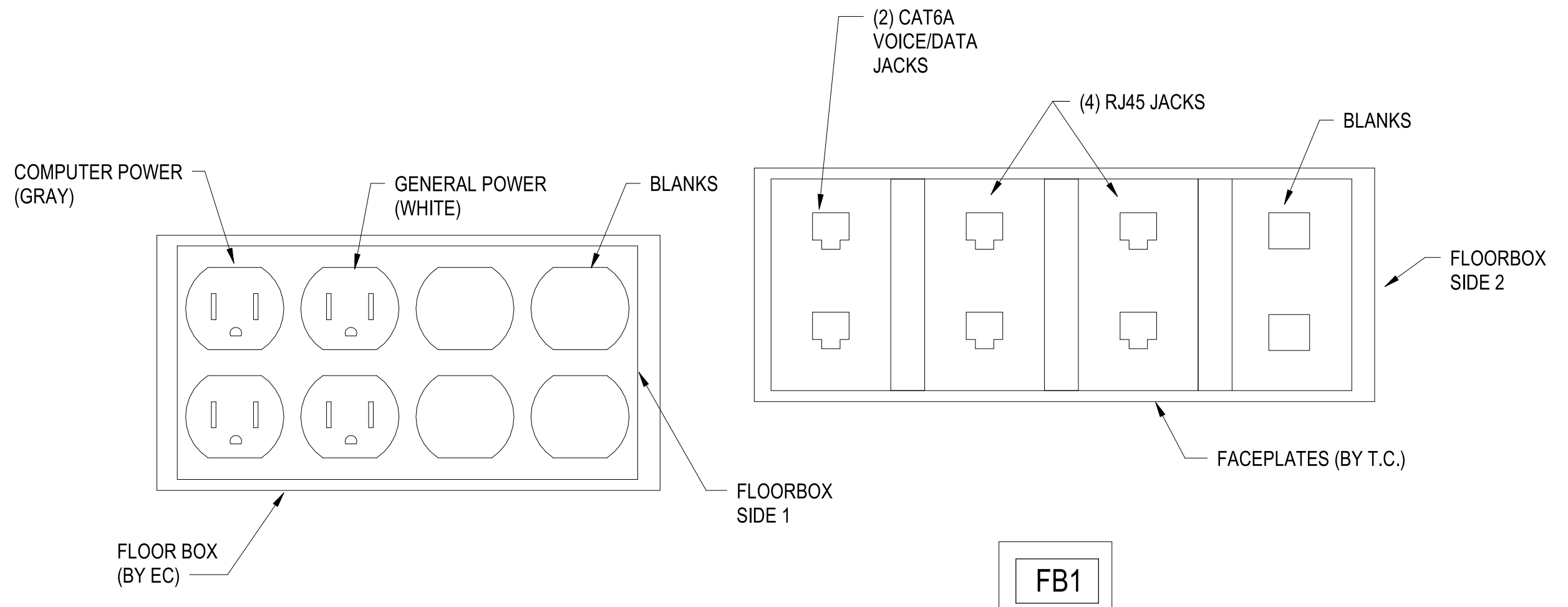
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TYPICAL FLOORBOX FACEPLATES - POWER ONLY

SCALE:NTS

A1

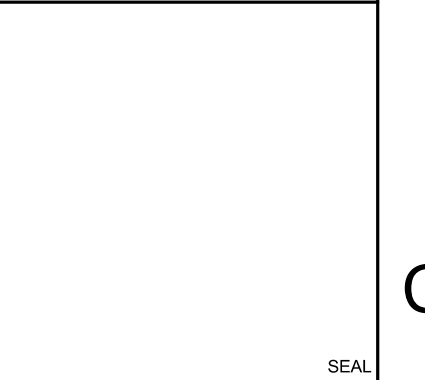


TYPICAL FLOORBOX FACEPLATES - FB1

SCALE:NTS

A3

SYMBOL	DESCRIPTION	DATE	APPROVED



Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC			
ACTIVITY MARINE CORPS BASE CAMP LEJEUNE			
SATISFACTORY TO DATE			
DES SD	DRW LAK	CHK YPS	PM
BRANCH MANAGER			
CHIEF ENGINEER			
FIRE PROTECTION			

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROIC FLORENCE CAMP LEJEUNE
JACKSONVILLE, NC
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.:
SHEET OF
E-502

PLOTTED: 5/28/2021 2:58:33 PM
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UNCLASSIFIED

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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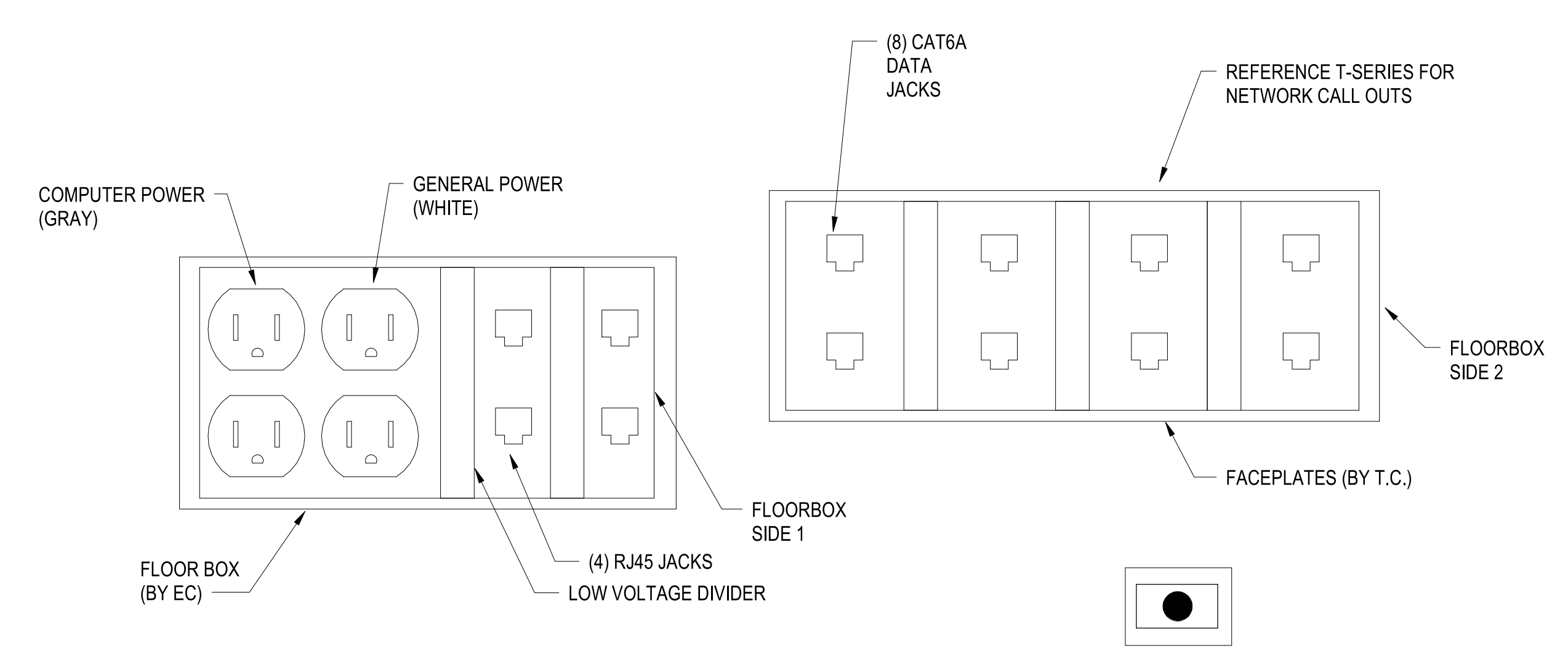
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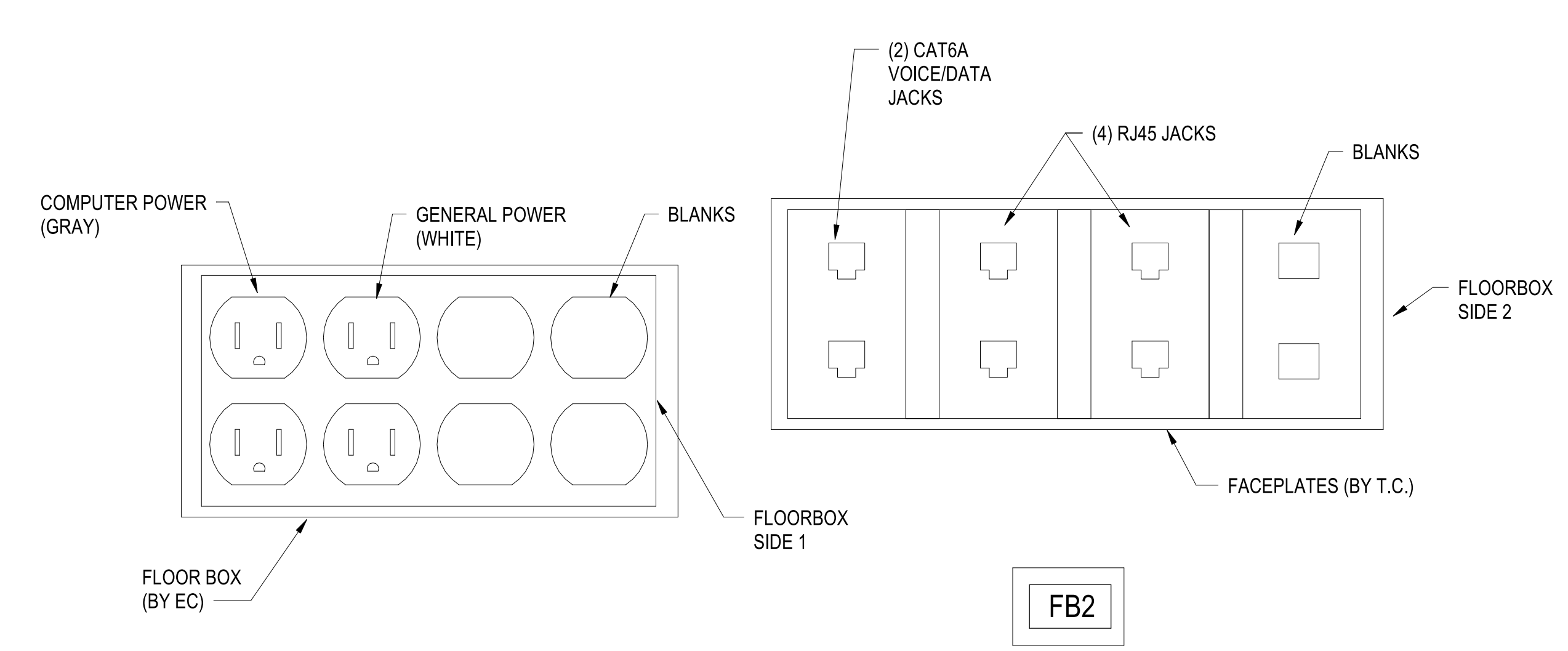
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TYPICAL FLOORBOX FACEPLATES - CLASSIFIED WITH AV
SCALE:NTS

C1

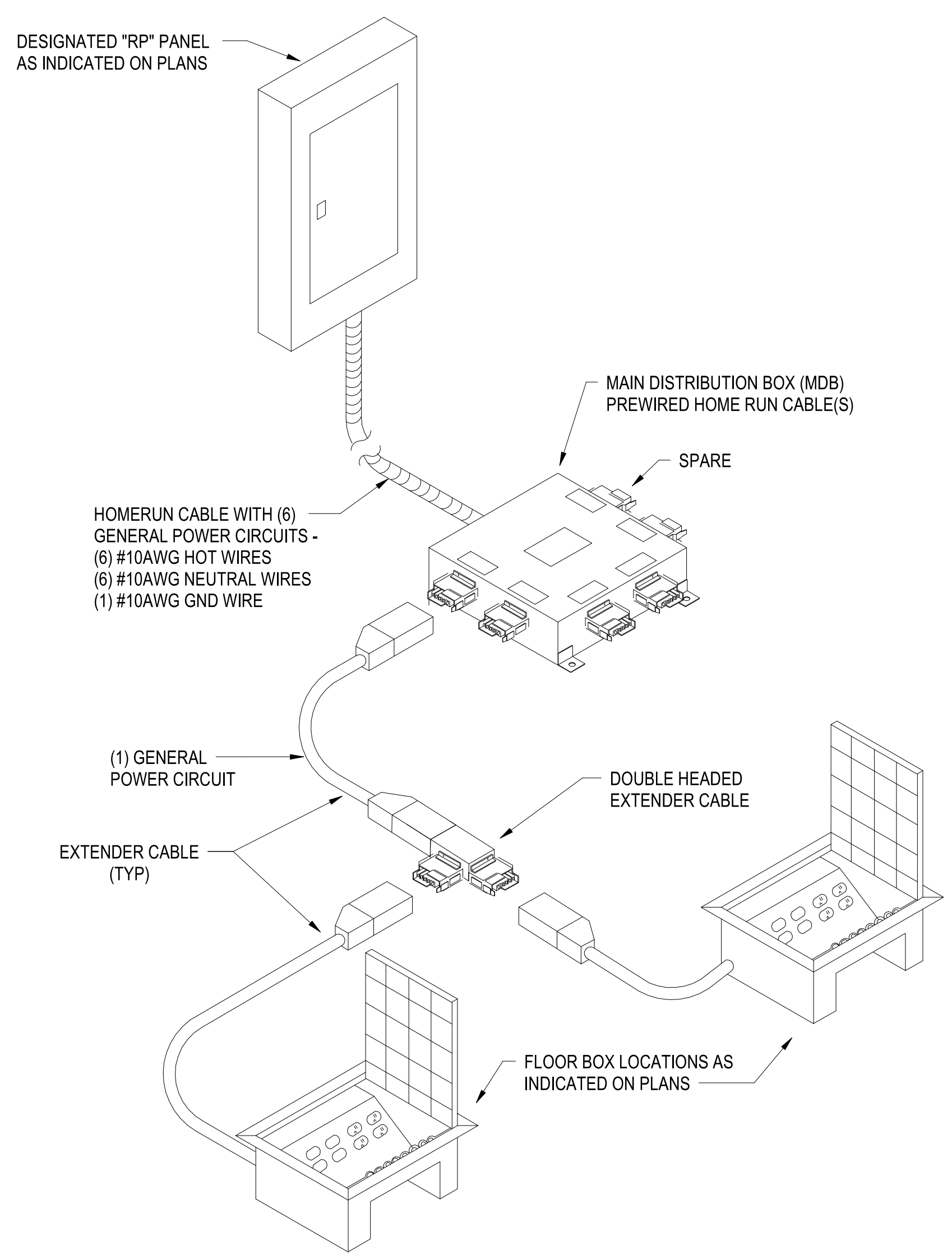


TYPICAL FLOORBOX FACEPLATES - SLAB ON GRADE
SCALE:NTS

C3

C

C



TYPICAL MODULAR POWER DISTRIBUTION SYSTEM
SCALE:NTS

A1

PLOTTED: 5/28/2021 2:58:34 PM

FILE NAME: BIM_360/HF PACKAGE 3P1338.MEF_SIM_CTR-1590892-E-1



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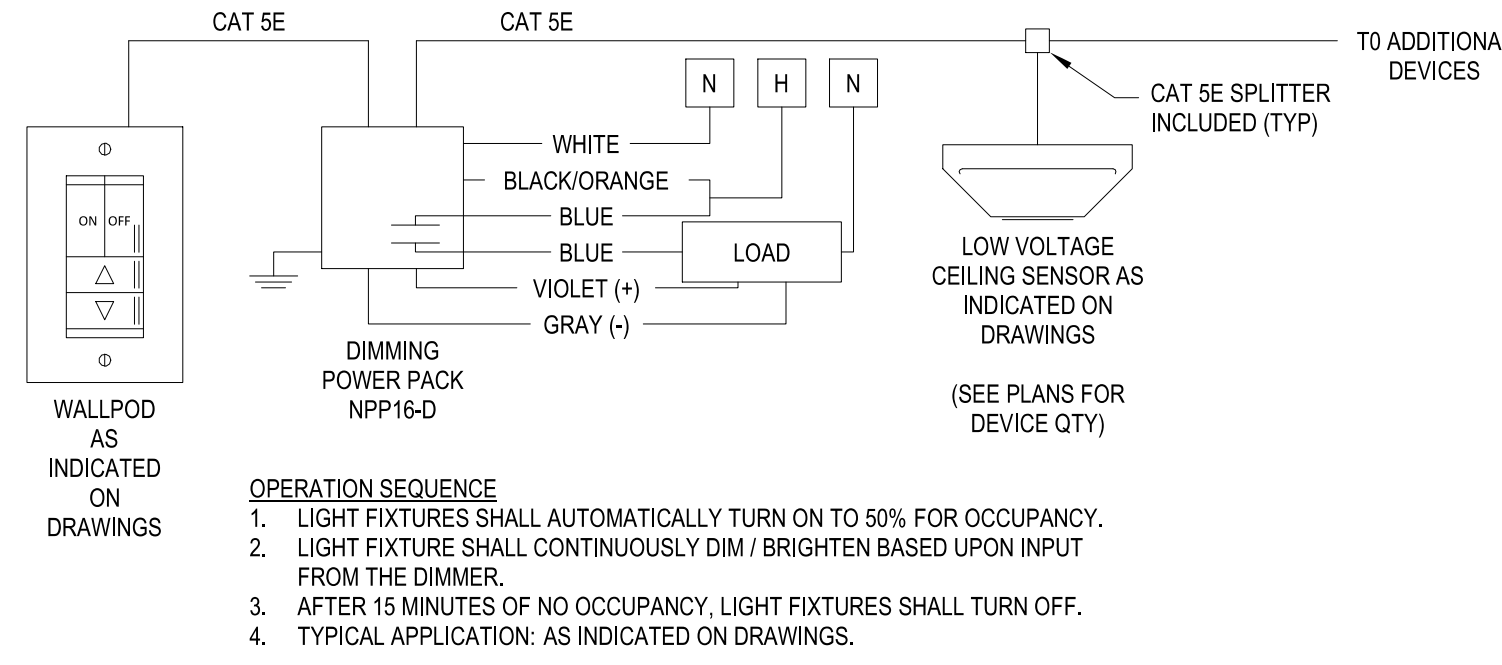
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5

APPR	
DATE	
SYMBOL	
DESCRIPTION	
	
	
Michael Baker INTERNATIONAL 100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY	
MARINE CORPS BASE CAMP LEJEUNE	
SATISFACTORY TO DATE	
DES SD	DRW LAK
CHK	YPS
PM	
BRANCH MANAGER	
CHIEF ENGINEER	
FIRE PROTECTION	
NAVAL FACILITIES ENGINEERING COMMAND NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC JACKSONVILLE, NC ROICC FLORENCE CAMP LEJEUNE MCB CAMP LEJEUNE P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT ELECTRICAL - DETAILS	
SCALE:	AS NOTED
EPROJCT NO.:	1590892
CONSTR. CONTR. NO.:	N40085-20-C-0059
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SHEET	OF
E-503	

UNCLASSIFIED

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

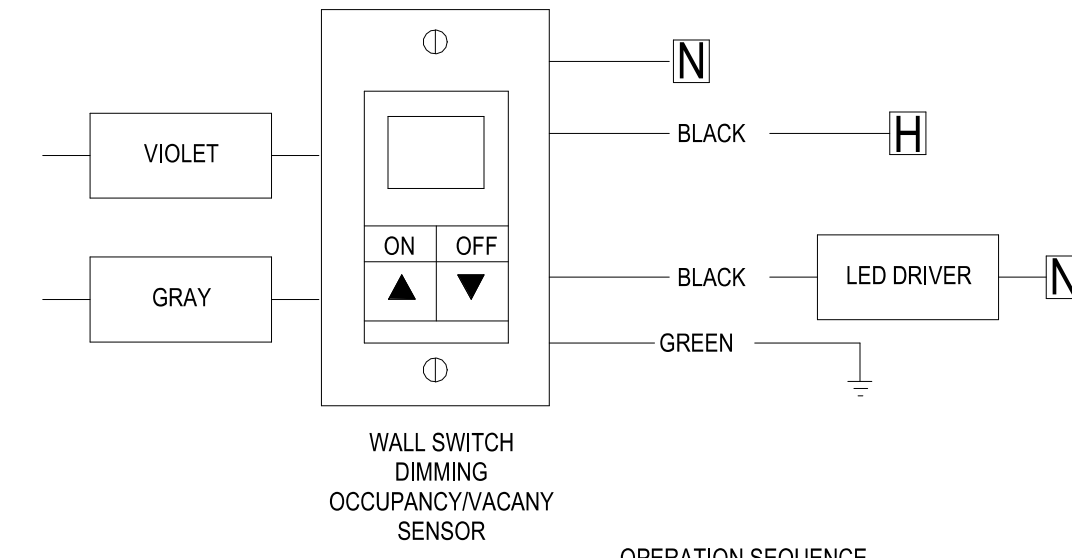


OPERATION SEQUENCE

1. LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON TO 50% FOR OCCUPANCY.
2. LIGHT FIXTURE SHALL CONTINUOUSLY DIM / BRIGHTEN BASED UPON INPUT FROM THE DIMMER.
3. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES SHALL TURN OFF.
4. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS.

CEILING OCCUPANCY / VACANCY SENSOR - DIMMING
SCALE:NTS

C1

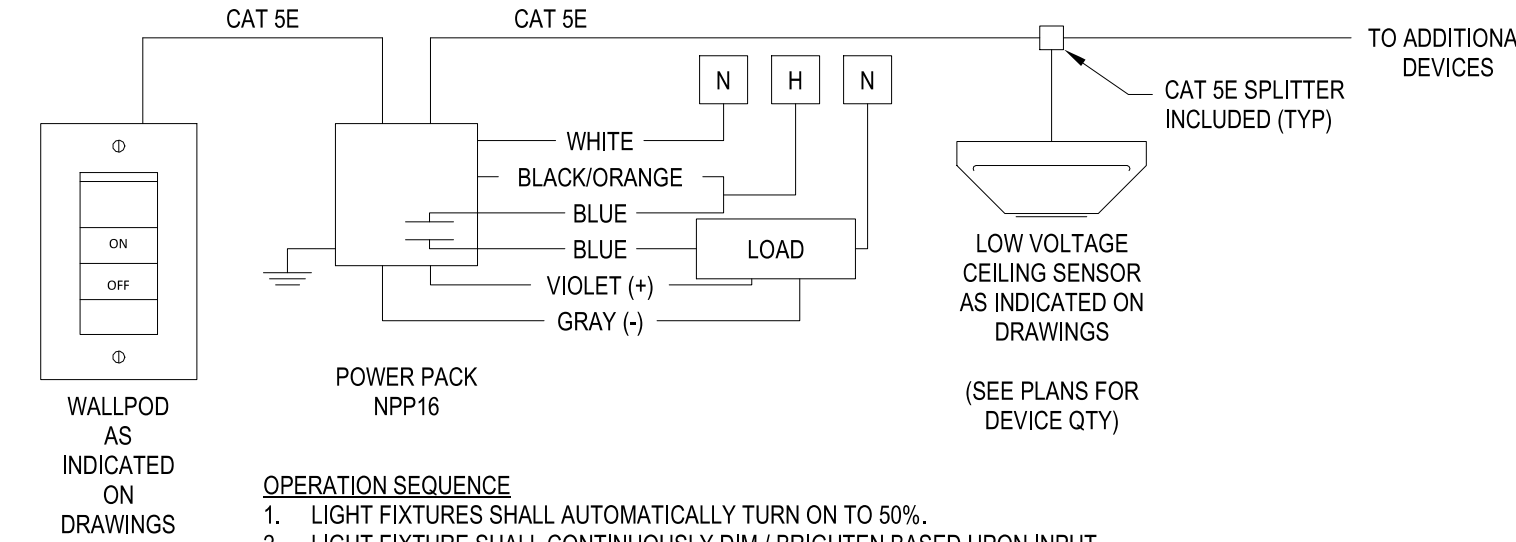


OPERATION SEQUENCE

1. LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON TO 50% FOR OCCUPANCY
2. LIGHT FIXTURE SHALL CONTINUOUSLY DIM / BRIGHTEN BASED UPON INPUT FROM THE DIMMER.
3. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES SHALL TURN OFF.
4. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS

WALL SWITCH OCCUPANCY / VACANCY SENSOR - DIMMING
SCALE:NTS

C3

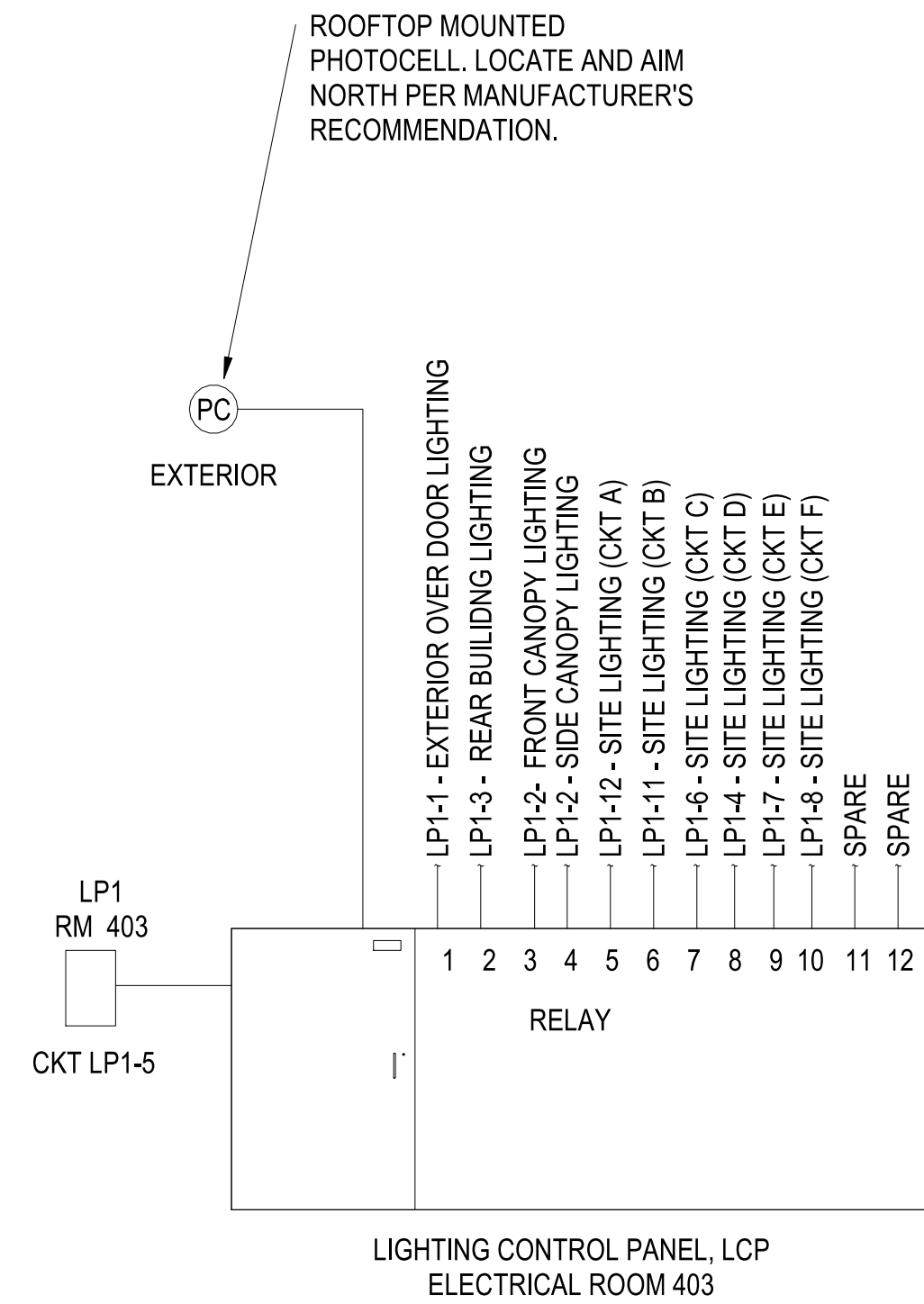


OPERATION SEQUENCE

1. LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON TO 50%.
2. LIGHT FIXTURE SHALL CONTINUOUSLY DIM / BRIGHTEN BASED UPON INPUT FROM THE DIMMER.
3. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES SHALL TURN OFF.
4. TYPICAL APPLICATION: TENANT TEMPORARY LIGHTING, MULTI-OCCUPANT RESTROOMS, BACK OF HOUSE CORRIDOR

CEILING OCCUPANCY / VACANCY SENSOR - NON DIMMING
SCALE:NTS

B3

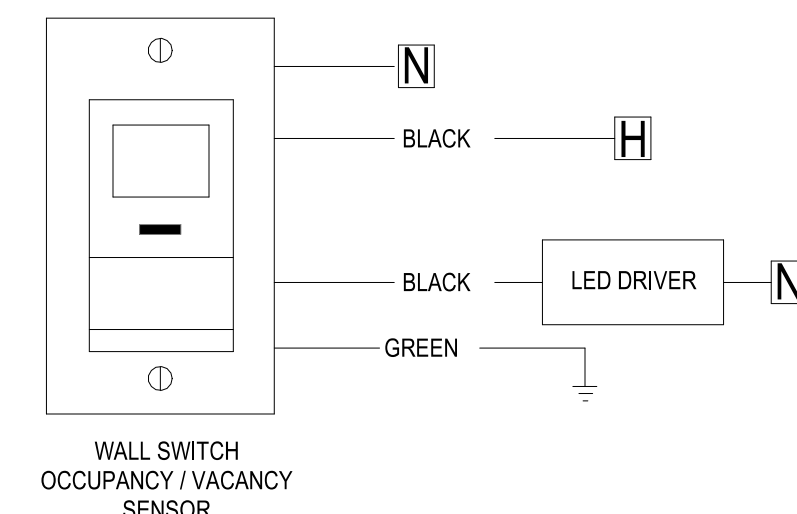


NOTES:

1. SEGREGATE CIRCUITS IN PANEL PER MANUFACTURER RECOMMENDATIONS IN ORDER TO MEET ALL APPLICABLE CODES AND STANDARDS.
2. EXTERIOR BUILDING LIGHTS ARE TO HAVE TIMED ON/OFF WITH PHOTOCELL OVERRIDE.

TYPICAL EXTERIOR LTG CONTROL WIRING DIAGRAM
SCALE:NTS

A1



OPERATION SEQUENCE

1. LIGHT FIXTURES SHALL AUTOMATICALLY TURN ON TO 100%.
2. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES SHALL TURN OFF.
3. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS

WALL SWITCH OCCUPANCY / VACANCY SENSOR - NON-DIMMING
SCALE:NTS




A3

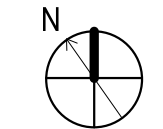
APPR	DATE
SYM	DESCRIPTION
FOR COMMANDER NAVFAC ACTIVITY MARINE CORPS BASE CAMP LEJEUNE	
SATISFACTORY TO DATE DES SD DRW LAK CHK YPS PM BRANCH MANAGER CHIEF ENGINEER FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC JACKSONVILLE, NC MCB CAMP LEJEUNE P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT ELECTRICAL - LIGHTING CONTROL DIAGRAMS	
SCALE:	AS NOTED
PROJECT NO.:	1509092
CONSTR. CONTR. NO.:	N40085-20-C-0059
NAVFAC DRAWING NO.:	
SHEET	OF
E-504	

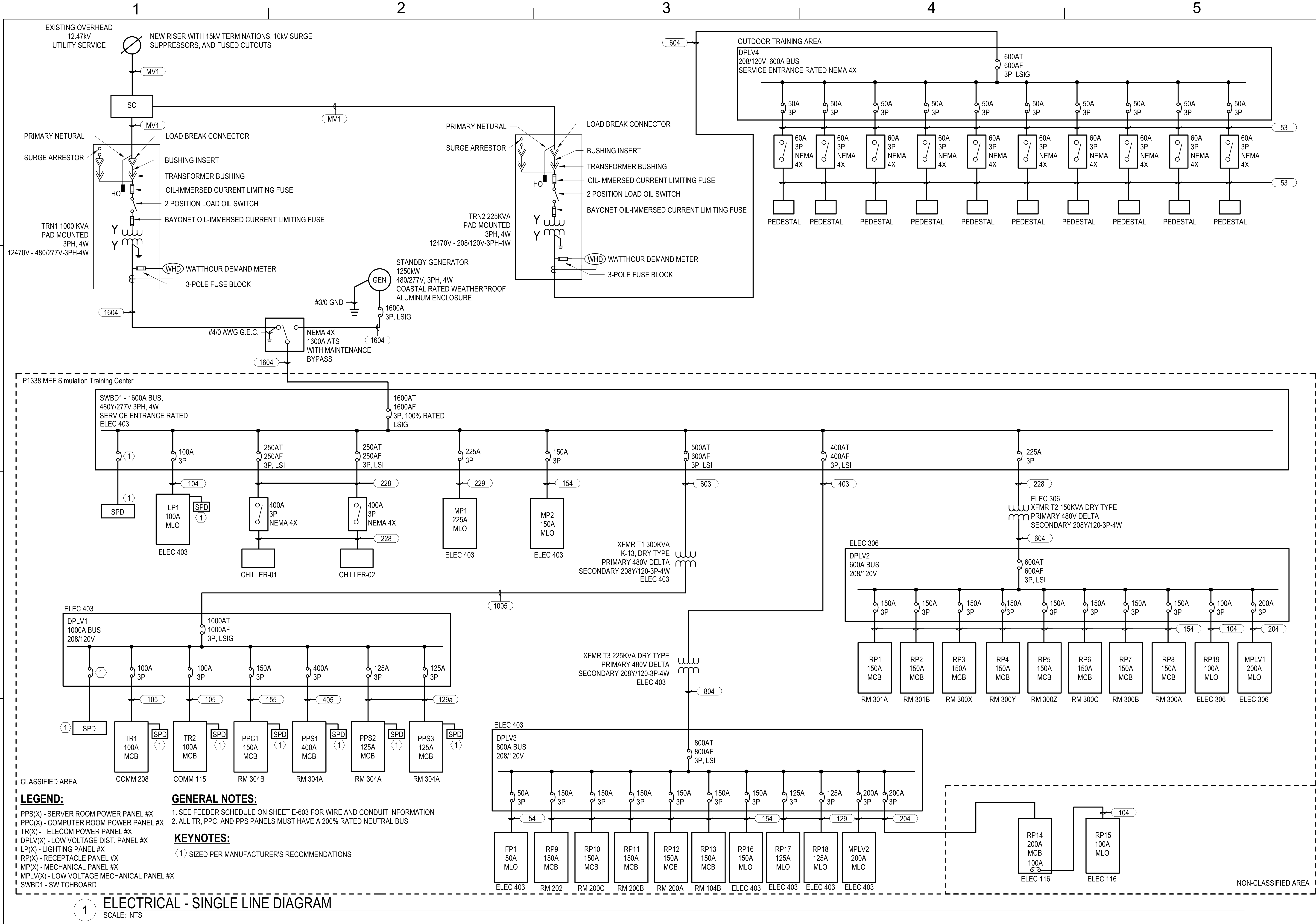
LIGHTING FIXTURE SCHEDULE

TYPE	Count	DESCRIPTION	MOUNTING	MANUFACTURER / CATALOG #	LAMP TYPE	LAMP QTY	INPUT WATTAGE	VOLTAGE	REMARKS
	475								
A1	73	2' x 4' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT4 40L ADPT LP840 / OR APPROVED EQUAL	LED 82 CRI, 4000 LUMENS 4000K CCT	--	30.99	MVOLT	
A2	234	2' x 4' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT4 48L ADP LP840/ OR APPROVED EQUAL	LED 82 CRI, 4800 LUMENS 4000K CCT	--	37.63	MVOLT	
A3	71	2' x 4' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT4 60L ADP LP840/ OR APPROVED EQUAL	LED 82 CRI, 6000 LUMENS 4000K CCT	--	46.41	MVOLT	
B1	113	2' x 2' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT2 20L ADP LP840/ OR APPROVED EQUAL	LED 82 CRI, 2000 LUMENS 4000K CCT	--	16.06	MVOLT	
C1	21	2' x 4' LED RECESSED FLAT PANEL	RECESSED	LITHONIA LIGHTING EPANL 2X4 3000LM 80CRI 40K / OR APPROVED EQUAL	LED 80 CRI, 3000 LUMENS 4000K CCT	--	25.95	MVOLT	
D1	46	6" RECESSED DOWNLIGHT	RECESSED	LITHONIA LIGHTING LDN6 35/15 L06AR LD/ OR APPROVED EQUAL	LED 80 CRI, 1500 LUMENS 3500K CCT	--	17.52	MVOLT	
D2	24	6" RECESSED DOWNLIGHT	RECESSED	LITHONIA LIGHTING LDN6 35/05 L06AR LD/ OR APPROVED EQUAL	LED 80 CRI, 500 LUMENS 3500K CCT	--	5.83	MVOLT	
D3	9	6" RECESSED DOWNLIGHT	RECESSED	LITHONIA LIGHTING LDN6 35/30 L06AR LD/ OR APPROVED EQUAL	LED 80 CRI, 3000 LUMENS 3500K CCT	--	34.75	MVOLT	
D4	3	6" RECESSED DOWNLIGHT WALL WASH	RECESSED	LITHONIA LIGHTING/ LDN6 35/50 LW6WR/ OR APPROVED EQUAL	LED 80 CRI, 5000 LUMENS 3500K CCT	--	1.4327	MVOLT	
D5	6	6" RECESSED DOWNLIGHT - WET LOCATION LISTED FOR UNDER CANOPY	RECESSED	LITHONIA LIGHTING LDN6 40/10 L06AR LD/ OR APPROVED EQUAL	LED 80 CRI, 1000 LUMENS 4000K CCT	--	10.44	MVOLT	
D5E	4	6" RECESSED DOWNLIGHT - WET LOCATION LISTED FOR UNDER CANOPY W/ 90 MINUTE BATTERY BACKUP	RECESSED	LITHONIA LIGHTING LDN6 40/10 L06AR LD/ OR APPROVED EQUAL	LED 80 CRI, 1000 LUMENS 4000K CCT	--	10.44	MVOLT	
E1	9	4' FLUSHED LED STRIP LIGHT	RECESSED	MARK ARCHITECTURAL LIGHTING SL4L 4 FLP 80 CRI 35K 400LMF/ OR APPROVED EQUAL	LED 80CRI, 400 LUMENS PER FT 3500K CCT	--	13.82	MVOLT	LENGTH AS REQUIRED-CONTINUOUS FLUSH LED STRIP LIGHT - PROVIDE WALL TO WALL INSTALLATION WITH EQUAL LENGTH FIXTURES. PROVIDE 1 PIECE FIXTURE FOR LENGTHS UP TO 12 FOOT
ELR	32	RECESSED EMERGENCY LIGHTING UNIT WITH LED LAMPS	RECESSED	LITHONIA LIGHTING ELR2 / OR APPROVED EQUAL	LED	--	16W	MVOLT	PROVIDE WITH 90 MINUTE BATTERY FOR EMERGENCY BACKUP POWER.
ELU	205	EMERGENCY LIGHTING UNIT W/ AIMABLE REMOTE HEADS MINIMUM 200 LUMENS PER HEAD	WALL	LITHONIA LIGHTING ELM2L / OR APPROVED EQUAL	LED	--	3W PER LAMP	MVOLT	MOUNT FIXTURE AT 7'-0" AFF UNLESS OTHERWISE NOTED. PROVIDE WITH 90 MINUTE BATTERY FOR EMERGENCY BACKUP POWER.
EX	56	LOW PROFILE SNAP TOGETHER QUICK MOUNT DESIGN. FLAME RATED, UV STABLE ABS THERMOPLASTIC HOUSING. UNIVERSAL MOUNTING, CANOPY PROVIDED. POP OUT SHEVRON DIRECTIONAL INDICATIONS EASILY REMOVED AS REQUIRED. MOUNTS TO STANDARD 4 INCH SQUARE OUTLET BOX.	UNIVERSAL	LITHONIA LIGHTING LE R ELN SD SERIES OR APPROVED EQUAL	LED	--	5	120	
S1	43	4' SUSPENDED LED STRIP LIGHT	SUSPENDED	LITHONIA LIGHTING ZL1N L48 5000LM FST MVOLT 35K 80 CRI/ OR APPROVED EQUAL	LED 80CRI, 5000 LUMENS 3500K CCT	--	34.31	MVOLT	MOUNT FIXTURES AT 10'-0" AFF. UNLESS OTHERWISE NOTED.
SL0	46	SITE LIGHTING TYPE VLS DISTRIBUTION	POLE	LITHONIA LIGHTING DSX0-LED-P1-40K-VLS-MVOLT-RPA-PER-DMG-PIRHN-FAO OR APPROVED EQUAL	LED 80 CRI, 4329 LUMENS 4000K CCT	--	56	277	MOUNT FIXTURE 12' ABOVE FINISHED GRADE UNLESS OTHERWISE NOTED.
SL1	4	SITE LIGHTING TYPE VS DISTRIBUTION	POLE BACK TO BACK	LITHONIA LIGHTING RSX1-LED-P1-40K-R5S-MVOLT-RPA-PE-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 7479 LUMENS EACH 4000K CCT	--	51 EACH	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
SL2	6	SITE LIGHTING TYPE VS DISTRIBUTION	POLE BACK TO BACK	LITHONIA LIGHTING RSX1-LED-P2-40K-R5S-MVOLT-RPA-PE-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 10374 LUMENS EACH 4000K CCT	--	72 EACH	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
SL3	10	SITE LIGHTING TYPE II DISTRIBUTION	POLE	LITHONIA LIGHTING RSX2-LED-P1-40K-R2-MVOLT-RPA-PE-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 11031 LUMENS 4000K CCT	--	73	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
SL4	10	SITE LIGHTING TYPE IV DISTRIBUTION	POLE	LITHONIA LIGHTING RSX2-LED-P2-40K-R4-MVOLT-RPA-PE-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 17427 LUMENS 4000K CCT	--	111	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
W1	4	EXTERIOR WALL PACK.	EXTERIOR WALL	LITHONIA LIGHTING WST LED P1 40K VW MVOLT OR APPROVED EQUAL	LED 70 CRI, 1500 LUMENS 4000K CCT	--	12	MVOLT	
W1E	6	EXTERIOR WALL PACK - PROVIDE WITH 90 MINUTE BATTERY BACKUP	EXTERIOR WALL	LITHONIA LIGHTING WST LED P1 40K VW MVOLT OR APPROVED EQUAL	LED 70 CRI, 1500 LUMENS 4000K CCT	--	12	MVOLT	

FILE NAME: BIM_360/HF PACKAGE 3P11338.MEF SIM CTR-1509092-E-1
PLOTTED: 5/28/2021 2:58:38 PM

DATE	APPR
SYN	DESCRIPTION
	
	
	
100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 A/E INFQ	
APPROVED	
FOR COMMANDER NAVFAC	
ACTIVITY MARINE CORPS BASE CAMP LEJEUNE	
SATISFACTORY TO DATE	
DES SD	DRW LAK
CHK YPS	
PM	
BRANCH MANAGER	
CHIEF ENGINEER	
FIRE PROTECTION	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC ROICC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC MCB CAMP LEJEUNE JACKSONVILLE, NC P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT ELECTRICAL - LIGHTING FIXTURE SCHEDULE	
SCALE:	AS NOTED
PROJECT NO.:	1509092
CONSTR. CONTR. NO.:	N40085-20-C-0059
NAVFAC DRAWING NO.:	
SHEET	OF
E-601	





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FILE NAME: BIM_360/HF_PACKAGE_3P1338_MEF_SIM_CTR-1509092-EN-1
PLOTTED: 5/28/2021 2:58:40 PM

SYMBOL	DESCRIPTION	DATE	APPROVED

SEAL

RO Jordan COMPANY
- A JOINT VENTURE -

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
APPROVED

FOR COMMANDER NAVFAC
ACTIVITY: MARINE CORPS BASE CAMP LEJEUNE
SATISFACTORY TO DATE
DESIGN: SD DRAWING: LAK CHECK: YPS
PROJECT MANAGER: PROJECT ENGINEER: FIRE PROTECTION:

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND - MID-ATLANTIC
ROSC FLORENCE CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT
ELECTRICAL - SINGLE LINE DIAGRAM

SCALE: AS NOTED
EPROJCT NO.: 1509092
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.: OF SHEETS

E-602

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION

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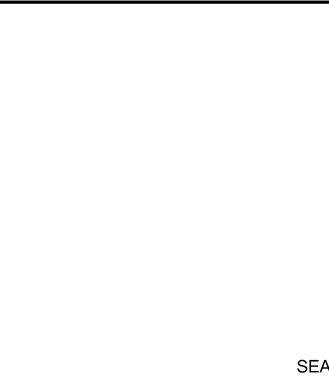
4

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FEEDER SCHEDULE

- 53 (3) #6 AWG AND (1) #10 AWG GND IN 3/4" CONDUIT
- 54 (4) #6 AWG AND (1) #10 AWG GND IN 3/4" CONDUIT
- 104 (4) #1 AWG AND (1) #8 AWG GND IN 1-1/2" CONDUIT
- 105 (5) #1 AWG AND (1) #8 AWG GND IN 2" CONDUIT
- 129 (4) #1 AWG AND (1) #6 AWG GND IN 1-1/2" CONDUIT
- 129a (5) #1 AWG AND (1) #6 AWG GND IN 2" CONDUIT
- 154 (4) #1/0 AWG AND (1) #6 AWG GND IN 1-1/2" CONDUIT
- 155 (5) #1/0 AWG AND (1) #6 AWG GND IN 2" CONDUIT
- 204 (4) #3/0 AWG AND (1) #6 AWG GND IN 2" CONDUIT
- 228 (3) #4/0 AWG AND (1) #4 AWG GND IN 2-1/2" CONDUIT
- 229 (4) #4/0 AWG AND (1) #4 AWG GND IN 2-1/2" CONDUIT
- 403 (3) 600 kcmil AND (1) #3 AWG GND IN 3" CONDUIT
- 405 (5) 600 kcmil AND (1) #3 AWG GND IN 3-1/2" CONDUIT
- 603 TWO 3" CONDUITS, EACH WITH (3) 350 kcmil AND (1) #1 AWG GND
- 604 TWO 3" CONDUITS, EACH WITH (4) 350 kcmil AND (1) #1 AWG GND
- 804 TWO 4" CONDUITS, EACH WITH (4) 600 kcmil AND (1) #1/0 AWG GND
- 1005 TWO 4" CONDUITS, EACH WITH (5) 400 kcmil AND (1) #1/0 AWG GND
- 1604 FOUR 4" CONDUITS, EACH WITH (4) 600 kcmil AND (1) #4/0 AWG GND + (1) 4" CONDUIT SPARE
- MV1 TWO 5" CONDUITS, ONE WITH (4) #2 AWG, 15kV, MV-105 TYPE CABLE, 133% EPR TYPE INSULATION WITH JACKET. PROVIDE WITH FULL SIZED CONCENTRIC NEUTRAL AND WITH ONE 5" CONDUIT WILL BE A SPARE WITH NO WIRING IN A CONCRETE ENCASED DUCTBANK.

SYN	DESCRIPTION	DATE	APPR



100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108 A/E INF3

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD	DRW LAK	CHK YPS
--------	---------	---------

PM

BRANCH MANAGER

CHIEF ENGINEER

FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
JACKSONVILLE, NC
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SINGLE LINE DIAGRAM

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

E-603

PLOTTED: 5/28/2021 2:58:41 PM

FILE NAME: BIM360/HF PACKAGE 3P1338.MEF_S1M_CTR-1590892.E-01

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GENERAL NOTES

- 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2 *SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

200 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V AIC
GROUND BAR

PANEL MPLV1

FED FROM: DPLV2
LOCATION: ELEC 306
MOUNT: SURFACE

CKT	LOAD SERVED	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	LOAD SERVED	CKT		
1	J-BOX VAV 24V POWER RM BREAK ROOM 206	12	20	1	0.18	1.00			1	20	12	J-BOX VAV 24V POWER RM EXERCISE CONTROL 202	2	
3	LOUVER LOW VOLTAGE POWER ELEC 306	12	20	1		0.30	1.44		1	15	12	LEFT TURNSTILE GATE POWER SUPPLY	4	
5	EF-04 RM ELEC 306	12	20	1			0.70	1.55		1	20	12	EWB-02 RM ELEC 306	6
7	J-BOX VAV 24V POWER RM LOBBY/VEST L010	12	20	1	1.00	1.00			1	20	12	J-BOX VAV 24V POWER RM SIM. CLASSROOM 200C	8	
9	RIGHT TURNSTILE GATE POWER SUPPLY	15	20	1		1.44							10	
11	HPCU-02	10	30	2			0.92						12	
13	--	--	--	--	0.92								14	
15	J-BOX VAV 24V POWER RM SIM. CLASSROOM 300Y	12	20	1		1.00							16	
17	J-BOX VAV 24V POWER RM SIM. CLASSROOM 301A	12	20	1			1.00						18	
19													20	
21													22	
23													24	
25													26	
27													28	
29													30	
31													32	
33													34	
35	PROVISIONED SPACE	--	--	--			0.00						36	
37	PROVISIONED SPACE	--	--	--	0.00	0.00			1	20	--	SPARE	38	
39	PROVISIONED SPACE	--	--	--		0.00	0.00		1	20	--	SPARE	40	
41	PROVISIONED SPACE	--	--	--					1	20	--	SPARE	42	
					TOTAL		4.1	4.2			4.2	KVA		
					CONNECTED LOAD		34.1	34.9			34.7	AMPS		
					DEMAND LOAD		12.4				34.5	AMPS		
					NEC ARTICLE 220		6.9				19.3	AMPS		
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals						
Equipment		2880 VA		100.00%		2880 VA		Total Conn. Load: 12434 VA						
UFC-MOTOR-25%		6176 VA		25.00%		1544 VA		Total Est. Demand: 6944 VA						
UFC-HVAC-70%		1830 VA		70.00%		1281 VA		Total Conn.: 35 A						
UFC-HEATER-80%		1548 VA		80.00%		1238 VA		Total Est. Demand: 19 A						

200 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V AIC
GROUND BAR

PANEL MPLV2

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE


CKT	LOAD SERVED	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	LOAD SERVED	CKT	
1	SF-1 RM MECHANICAL 400	12	20	1	1.18	0.77			1	20	12	DEHUMIDIFIER DEH-01 RM MECHANICAL 400	2
3	UH-01 RM MECHANICAL 400	12	20	1		0.10	0.42		1	20	12	RP-1 RM MECH (HOT) 401	4
5	UH-02 RM MECH (HOT) 401	12	20	1			0.10	0.55	3	20	12	OH ROLL UP DOOR RM MECHANICAL 400	6
7	EF-3 RM ELEC 116	12	20	1	0.70	0.55			--	--	--		8
9	EWB-01 RM ELEC 116	12	20	1		1.55	0.55		--	--	--		10
11	OH ROLL UP DOOR RM STORAGE/SHIP/RECEIVING 402	12	20	3			0.55	1.39	1	20	12	LOUVERS L-01 & L-02 RM MECHANICAL 400	12
13	--	--	--	--	0.55	0.36							14
15	--	--	--	--		0.55	0.36		1	20	12	GWH-1 MECH (HOT) 401	16
17	BOILER B-01 RM MECH (HOT) 401	12	15	1			0.59	0.59	1	15	12	BOILER B-03 RM MECH (HOT) 401	18
19	BOILER B-02 RM MECH (HOT) 401	12	15	1	0.59	0.92			2	25	10	SSCU-01	20
21	J-BOX LOUVER 24V POWER MECH (HOT) 401	12	20	1		0.50	0.92		--	--	--		22
23	J-BOX LOUVER 24V POWER ELEC 116/403/	12	20	1			0.90	0.36	1	20	12	J-BOX FOR DDC CONTROLLER MECHANICAL 400	24
25	CHILLER HEAT TRACE RM MECHANICAL 400	12	20	1	1.44	0.70			1	20	12	EF-2 RM ELEC 403	26
27	J-BOX VAV 24V POWER RM FIRE ROOM 104B	12	20	1		1.00	1.18		1	20	12	EF-1 RM MEN G025	28
29	PROVISIONED SPACE	--	--	--			0.00	1.00	1	20	12	J-BOX VAV 24V POWER RM 109	30
31	PROVISIONED SPACE	--	--	--	0.00	0.00			--	--	--	PROVISIONED SPACE	32
33	PROVISIONED SPACE	--	--	--		0.00	0.00		--	--	--	PROVISIONED SPACE	34
35	SPARE	--	15	1			0.00	0.00	--	--	--	PROVISIONED SPACE	36
37	SPARE	--	20	1	0.00	0.00			1	20	--	SPARE	38
39	SPARE	--	20	1		0.00	0.00		1	20	--	SPARE	40
41	SPARE	--	20	1					1	20	--	SPARE	42
					TOTAL		7.7	7.1			6.0	KVA	
					CONNECTED LOAD		65.9	60.8			50.2	AMPS	
					DEMAND LOAD		20.9				58.0	AMPS	
					NEC ARTICLE 220		10.3				28.6	AMPS	
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
Power		1800 VA		100.00%		1800 VA		Total Conn. Load: 20895 VA					
Water Heater		720 VA		100.00%		720 VA		Total Est. Demand: 10289 VA					
UFC-MOTOR-25%		7144 VA		25.00%		1786 VA		Total Conn.: 58 A					
UFC-MOTOR-30%		5132 VA		30.00%		1540 VA		Total Est. Demand: 29 A					
UFC-HVAC-70%		4359 VA		70.00%		3052 VA							
UFC-HEATER-80%		1740 VA		80.00%		1392 VA							

50 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V AIC
GROUND BAR

PANEL FP1

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

CKT	LOAD SERVED	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	LOAD SERVED	CKT	
1	AMPLIFIER RM 403	12	20	1	0.60	0.60			1	20	12	POWER SUPPLY RM 403	2
3	TRANSMITTER PANEL RM 403	12	20	1		0.60	0.00		1	20	--	SPARE	4
5	FACP RM 403	12	20	1			0.96	0.00	1	20	--	SPARE	6
7	PROVISIONED SPACE	--	--	--	0.00	0.00			--	--	--	PROVISIONED SPACE	8
9	PROVISIONED SPACE	--	--	--		0.00	0.00		--	--	--	PROVISIONED SPACE	10
11	PROVISIONED SPACE	--	--	--			0.00	0.00	--	--	--	PROVISIONED SPACE	12
13	PROVISIONED SPACE	--	--	--	0.00	0.00			--	--	--	PROVISIONED SPACE	14
15	PROVISIONED SPACE	--	--	--		0.00	0.00		--	--	--	PROVISIONED SPACE	16
17	PROVISIONED SPACE	--	--	--			0.00	0.00	--	--	--	PROVISIONED SPACE	18
19	PROVISIONED SPACE	--	--	--	0.00	0.00			--	--	--	PROVISIONED SPACE	20
21	PROVISIONED SPACE	--	--	--		0.00	0.00		--	--	--	PROVISIONED SPACE	22
23	PROVISIONED SPACE	--	--	--			0.00	0.00	--	--	--	PROVISIONED SPACE	24
25	PROVISIONED SPACE	--	--	--	0.00	0.00			--	--	--	PROVISIONED SPACE	26
27	PROVISIONED SPACE	--	--	--		0.00	0.00		--	--	--	PROVISIONED SPACE	28
29	PROVISIONED SPACE	--	--	--			0.00	0.00	--	--	--	PROVISIONED SPACE	30
					TOTAL		1.2	0.6			1.0	KVA	
					CONNECTED LOAD		10.5	5.0			8.5	AMPS	
					DEMAND LOAD		2.8				7.7	AMPS	
					NEC ARTICLE 220		2.8				7.7	AMPS	
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
FIRE PROTECTION - 100%		2760 VA		100.00%		2760 VA		Total Conn. Load: 2760 VA					
								Total Est. Demand: 2760 VA					
								Total Conn.: 8 A					
								Total Est. Demand: 8 A					



Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108 A/E INF/0

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE

DES SD DRW LAK CHK YPS

PM

BRANCH MANAGER

CHIEF ENGINEER

FIRE PROTECTION

NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE JACKSONVILLE, NC
MCB CAMP LEJEUNE JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT

ELECTRICAL - PANEL SCHEDULES

DEPARTMENT OF THE NAVY

SCALE: AS NOTED

EPROJCT NO.: 1590892

CONSTR. CONTR. NO.
N40085-20-C-0059

NAVAC DRAWING NO.

SHEET OF

E-606

PLOTTED: 5/28/2021 2:58:48 PM

FILE NAME: BIM_360/HF PACKAGE 3P1338.MEF_SIM_CTR-1590892-E-01

GENERAL NOTES

- 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2 *SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

PANEL RP17

125 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	LOAD SERVED	CKT	
1	RECEPT COR C022	12	20	1	0.18	0.50		1	20	12	AV FLAT PANELS RM 202	2	
3	RECEPT TIMEZONE CLOCK 200B	12	20	1		0.18	0.36	1	20	12	RECEPT EXTERIOR	4	
5	AV FLAT PANEL RM 209	12	20	1			0.25	1.08	1	20	RECEPT RM 200B	6	
7	AV FLAT PANEL RM 200B	12	20	1	0.65	0.65		1	20	12	AV FLAT PANEL RM 200C	8	
9	AV FLAT PANELS RM 303B	12	20	1		0.50	0.72	1	20	12	RECEPT RM 200C	10	
11	RECEPT RM 200C	12	20	1			1.08	0.18	1	20	12	RECEPT TIMEZONE CLOCK RM 200C	12
13	RECEPT RM 200B	12	20	1	0.72	0.18		1	20	12	RECEPT TIMEZONE CLOCK COR C020	14	
15	RECEPT RM 200B	12	20	1		0.90	0.18	1	20	12	RECEPT TIMEZONE CLOCK COR C022	16	
17	RECEPT RM 303B	12	20	1			0.72	0.72	1	20	12	RECEPT RM 302	18
19	RECEPT RM 302	12	20	1	0.72	0.72		1	20	12	RECEPT RM 200C	20	
21	RECEPT RM 303B	12	20	1		0.72	0.72	1	20	12	RECEPT RM 209	22	
23	RECEPT RM 303B	12	20	1			0.90	0.90	1	20	12	RECEPT RM 209	24
25	RECEPT RM 303A	12	20	1	0.90	0.90		1	20	12	RECEPT RM 202	26	
27	RECEPT RM 303A	12	20	1		0.90	0.90	1	20	12	RECEPT RM 203	28	
29	RECEPT RM 202	12	20	1			1.08	1.44	1	20	12	VENDING MACHINE RM 206	30
31	RECEPT RM 202	12	20	1	1.08	1.44		1	20	12	SYSTEMS FURNITURE RM 302	32	
33	RECEPT RM 202	12	20	1		1.08	1.44	1	20	12	VENDING MACHINE RM 206	34	
35	PROVISIONED SPACE	--	--	--			0.00	0.00	1	20	--	SPARE	36
37	SPARE	--	20	1	0.00	0.00			1	20	--	SPARE	38
39	SPARE	--	20	1		0.00	0.00	1	20	--	SPARE	40	
41	SPARE	--	20	1			0.00	0.00	1	20	--	SPARE	42
TOTAL					8.6	8.6	8.4	KVA					
CONNECTED LOAD					72.3	72.0	69.6	AMPS					
DEMAND LOAD					25.6	KVA	71.0	AMPS					
NEC ARTICLE 220					19.2	KVA	53.4	AMPS					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	2880 VA	100.00%	2880 VA	Total Conn. Load: 25590 VA Total Est. Demand: 19235 VA Total Conn.: 71 A Total Est. Demand: 53 A
RECEPT	22710 VA	72.02%	16355 VA	

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

PANEL RP18

125 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	LOAD SERVED	CKT	
1	AV FLAT PANEL RM 101	12	20	1	0.65	0.65		1	20	12	AV FLAT PANEL RM 102	2	
3	RECEPT RM 101	12	20	1		1.08	1.08	1	20	12	RECEPT RM 102	4	
5	RECEPT RM 102	12	20	1			1.08	1.08	1	20	12	RECEPT RM 200A	6
7	RECEPT RM 201	12	20	1	0.72	1.08		1	20	12	RECEPT RM 101	8	
9	RECEPT TIMEZONE CLOCK RM 300A	12	20	1		0.18	0.18	1	20	12	RECEPT TIMEZONE CLOCK COR 034	10	
11	RECEPT TIMEZONE CLOCK RM 300X	12	20	1			0.18	0.18	1	20	12	RECEPT TIMEZONE CLOCK COR C020	12
13	RECEPT TIMEZONE CLOCK RM 200A	12	20	1	0.18	0.18		1	20	12	AV FLAT PANEL RM L010	14	
15	AV FLAT PANEL RM 300A	12	20	1		0.65	0.90	1	20	12	RECEPT RM 300A	16	
17	AV FLAT PANEL RM 300X	12	20	1			0.65	0.90	1	20	12	RECEPT RM 300X	18
19	AV FLAT PANEL RM 200A	12	20	1	0.65	0.90		1	20	12	RECEPT RM 201	20	
21	RECEPT RM 201	12	20	1		0.90	0.90	1	20	12	RECEPT RM 101	22	
23	RECEPT RM 201	12	20	1			0.90	0.90	1	20	12	RECEPT RM 102	24
25	RECEPT RM 200A	12	20	1	0.90	0.90		1	20	12	RECEPT RM 100	26	
27	RECEPT RM 300X	12	20	1		1.08	1.08	1	20	12	RECEPT RM 300A	28	
29	RECEPT RM L010	12	20	1			1.08	1.08	1	20	12	RECEPT RM 300A	30
31	RECEPT RM 300X	12	20	1	1.08	1.08		1	20	12	RECEPT RM 200A	32	
33	RECEPT STOR. 110A	12	20	1		0.54	0.00	--	--	--	PROVISIONED SPACE	34	
35	PROVISIONED SPACE	--	--	--			0.00	0.00	1	20	--	SPARE	36
37	SPARE	--	20	1	0.00	0.00			1	20	--	SPARE	38
39	SPARE	--	20	1		0.00	0.00	1	20	--	SPARE	40	
41	SPARE	--	20	1			0.00	0.00	1	20	--	SPARE	42
TOTAL					9.0	8.6	8.0	KVA					
CONNECTED LOAD					75.4	72.1	66.9	AMPS					
DEMAND LOAD					25.6	KVA	71.0	AMPS					
NEC ARTICLE 220					17.8	KVA	49.4	AMPS					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
RECEPT	25570 VA	69.55%	17785 VA	Total Conn. Load: 25570 VA Total Est. Demand: 17785 VA Total Conn.: 71 A Total Est. Demand: 49 A

FED FROM: DPLV2
LOCATION: ELEC 306
MOUNT: SURFACE



PANEL RP19

100 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	LOAD SERVED	CKT	
1	RECEPT TIMEZONE CLOCK COR C030	12	20	1	0.18	0.36		1	20	12	RECEPT RM 306	2	
3	RECEPT TIMEZONE CLOCK COR C034	12	20	1		0.18	0.90	1	20	12	RECEPT COR C031, C034	4	
5	RECEPT RM 305	12	20	1			0.36	0.72	1	20	12	RECEPT RM 301A	6
7	RECEPT RM 301B	12	20	1	0.72	0.90		1	20	12	RECEPT COR C020, C030, C031	8	
9	RECEPT RM 300B	12	20	1		1.08	0.18	1	20	12	RECEPT TIMEZONE CLOCK RM 301A	10	
11	RECEPT RM 300C	12	20	1			1.08	0.18	1	20	12	RECEPT TIMEZONE CLOCK RM 301B	12
13	RECEPT TIMEZONE CLOCK RM 300Z	12	20	1	0.18	0.18		1	20	12	RECEPT TIMEZONE CLOCK RM 300B	14	
15	RECEPT TIMEZONE CLOCK RM 300C	12	20	1		0.18	0.65	1	20	12	AV FLAT PANEL RM 301A	16	
17	RECEPT TIMEZONE CLOCK RM 300Y	12	20	1			0.18	0.65	1	20	12	AV FLAT PANEL RM 301B	18
19	AV FLAT PANEL RM 300Z	12	20	1	0.65	0.65		1	20	12	AV FLAT PANEL RM 300B	20	
21	AV FLAT PANEL RM 300C	12	20	1		0.65	0.90	1	20	12	RECEPT RM 301B	22	
23	AV FLAT PANEL RM 300Y	12	20	1			0.65	0.90	1	20	12	RECEPT RM 301B	24
25	RECEPT RM 301A	12	20	1	0.90	0.90		1	20	12	RECEPT RM 300C	26	
27	RECEPT RM 300Z	12	20	1		0.90	1.08	1	20	12	RECEPT RM 301B	28	
29	RECEPT RM 301A	12	20	1			0.90	1.08	1	20	12	RECEPT SIMULATION CLASSROOM 300Z	30
31	RECEPT RM 301A	12	20	1	1.08	1.08		1	20	12	RECEPT RM 300C	32	
33	RECEPT RM 300Y	12	20	1		1.08	0.36	1	20	12	RECEPT EXTERIOR	34	
35	SPARE	--	20	1			0.00	1.08	1	20	--	SPARE	36
37	SPARE	--	20	1	0.00	0.00			1	20	--	SPARE	38
39	SPARE	--	20	1		0.00	0.00	1	20	--	SPARE	40	
41	SPARE	--	20	1			0.00	0.00	1	20	--	SPARE	42
TOTAL					7.8	8.1	7.8	KVA					
CONNECTED LOAD					64.8	67.8	64.8	AMPS					
DEMAND LOAD					23.7	KVA	65.8	AMPS					
NEC ARTICLE 220					16.9	KVA	46.8	AMPS					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
RECEPT	23700 VA	71.10%	16850 VA	Total Conn. Load: 23700 VA Total Est. Demand: 16850 VA Total Conn.: 66 A Total Est. Demand: 47 A

APPR
DATE
SYN
DESCRIPTION
SEAL

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108 A/E INF'D
APPROVED

FOR COMMANDER NAVAC
ACTIVITY
MARINE CORPS BASE
CAMP LEJEUNE

SATISFACTORY TO DATE
DES SD DRW LAK CHK YPS
PM
BRANCH MANAGER
CHIEF ENGINEER
FIRE PROTECTION

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
ROICC FLORENCE CAMP LEJEUNE
MBC CAMP LEJEUNE
JACKSONVILLE, NC
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJCT NO.: 1500892
CONSTR. CONTR. NO.: N40085-20-C-0059
NAVFAC DRAWING NO.
SHEET OF
E-611

DP2 SUBMISSION - P1338 BUILDING -PRE-FINAL SUBMISSION

PLOTTED: 5/28/2021 2:59:00 PM

FILE NAME: BIM360/HF PACKAGE 3P1338.MEF_SIM_CTR-1500892-E-1

GENERAL NOTES

- 1 SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
- 2 * SEE E-603 FOR WIRE SIZES NOT INDICATED IN PANEL SCHEDULES.

PANEL PPS2

FED FROM: DPLV1
 LOCATION: SIM CONTROL (SERVER ROOM) 304A
 MOUNT: SURFACE

125 A MAIN CIRCUIT BREAKER
 3PH 4WIRE 208Y/120V
 AIC
 GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	LOAD SERVED	CKT	
1	RECEPT MCEN (U) RACK RM 304A	12	20	1	0.18	0.90			1	20	12	RECEPT RM 304A	2
3	RECEPT MCEN (U) RACK RM 304A	12	20	1		0.18	0.90		1	20	12	RECEPT RM 304A	4
5	MCEN (U) UPS RM 304A	10	30	1			2.00	2.00	1	30	10	MCEN (U) UPS RM 304A	6
7	MCEN (U) UPS RM 304A	10	30	1	2.00	0.18			1	20	12	RECEPT TIE (U) RACK RM 304A	8
9	MCEN (U) UPS RM 304A	10	30	1		2.00	0.18		1	20	12	RECEPT TIE (U) RACK RM 304A	10
11	RECEPT TIE (U) RACK RM 304A	12	20	1			0.18	0.18	1	20	12	RECEPT TIE (U) RACK RM 304A	12
13	RECEPT TIE (U) RACK RM 304A	12	20	1	0.18	0.18			1	20	12	RECEPT TIE (U) RACK RM 304A	14
15	RECEPT TIE (U) RACK RM 304A	12	20	1		0.18	0.18		1	20	12	RECEPT TIE (U) RACK RM 304A	16
17	RECEPT TIE (U) RACK RM 304A	12	20	1			0.18	0.18	1	20	12	RECEPT TIE (U) RACK RM 304A	18
19	RECEPT MCEN (U) RACK RM 304A	12	20	1	0.18	0.18			1	20	12	RECEPT MCEN (U) RACK RM 304A	20
21	RECEPT MCEN (U) RACK RM 304A	12	20	1		0.18	0.18		1	20	12	RECEPT MCEN (U) RACK RM 304A	22
23	RECEPT MCEN (U) RACK RM 304A	12	20	1			0.18	0.18	1	20	12	RECEPT MCEN (U) RACK RM 304A	24
25	RECEPT MCEN (U) RACK RM 304A	12	20	1	0.18	2.00			1	30	10	TIE (U) UPS RM 304A	26
27	RECEPT MCEN (U) RACK RM 304A	12	20	1		0.18	2.00		1	30	10	TIE (U) UPS RM 304A	28
29	TIE (U) UPS RM 304A	10	30	1			2.00	2.00	1	30	10	TIE (U) UPS RM 304A	30
31	MCEN (U) UPS RM 304A	10	30	1	2.00	0.00			3	20	--	SURGE PROTECTIVE DEVICE	32
33	TIE (U) UPS RM 304A	10	30	1		2.00	0.00		--	--	--	--	34
35	SPARE	--	20	1			0.00	0.00	--	--	--	--	36
37	SPARE	--	20	1	0.00	0.00			1	30	--	SPARE	38
39	SPARE	--	20	1		0.00	0.00		1	30	--	SPARE	40
41	SPARE	--	20	1			0.00	0.00	1	30	--	SPARE	42
TOTAL					8.2	8.2	9.1	KVA					
CONNECTED LOAD					68.0	68.0	75.7	AMPS					
DEMAND LOAD					25.4	KVA	70.5	AMPS					
DEMAND LOAD					25.4	KVA	70.5	AMPS					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	23600 VA	100.00%	23600 VA	Total Conn. Load: 25400 VA Total Est. Demand: 25400 VA Total Conn.: 71 A Total Est. Demand: 71 A
RECEPT	1800 VA	100.00%	1800 VA	

PANEL PPS3

FED FROM: DPLV1
 LOCATION: SIM CONTROL (SERVER ROOM) 304A
 MOUNT: SURFACE

125 A MAIN CIRCUIT BREAKER
 3PH 4WIRE 208Y/120V
 AIC
 GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A	B	C	PL	BRKR	WIRE	LOAD SERVED	CKT	
1	RECEPT SIPR (C) RACK RM 304A	12	20	1	0.18	2.00			1	30	10	SIPR (C) UPS RM 304A	2
3	RECEPT SIPR (C) RACK RM 304A	12	20	1		0.18	2.00		1	30	10	SIPR (C) UPS RM 304A	4
5	SIPR (C) UPS RM 304A	10	30	1			2.00	2.00	1	30	10	TIE (C) UPS RM 304A	6
7	SIPR (C) UPS RM 304A	10	30	1	2.00	0.18			1	20	12	RECEPT TIE (C) RACK RM 304A	8
9	SIPR (C) UPS RM 304A	10	30	1		2.00	0.18		1	20	12	RECEPT TIE (C) RACK RM 304A	10
11	TIE (C) UPS RM 304A	10	30	1			2.00	0.18	1	20	12	RECEPT TIE (C) RACK RM 304A	12
13	RECEPT TIE (C) RACK RM 304A	12	20	1	0.18	0.18			1	20	12	RECEPT TIE (C) RACK RM 304A	14
15	RECEPT TIE (C) RACK RM 304A	12	20	1		0.18	0.18		1	20	12	RECEPT TIE (C) RACK RM 304A	16
17	RECEPT TIE (C) RACK RM 304A	12	20	1			0.18	0.18	1	20	12	RECEPT TIE (C) RACK RM 304A	18
19	RECEPT SIPR (C) RACK RM 304A	12	20	1	0.18	0.18			1	20	12	RECEPT SIPR (C) RACK RM 304A	20
21	RECEPT SIPR (C) RACK RM 304A	12	20	1		0.18	0.18		1	20	12	RECEPT SIPR (C) RACK RM 304A	22
23	RECEPT TIE (C) RACK RM 304A	12	20	1			0.18	0.18	1	20	12	RECEPT SIPR (C) RACK RM 304A	24
25	RECEPT SIPR (C) RACK RM 304A	12	20	1	0.18	2.00			1	30	10	TIE (C) UPS RM 304A	26
27	RECEPT SIPR (C) RACK RM 304A	12	20	1		0.18	2.00		1	30	10	TIE (C) UPS RM 304A	28
29	RECEPT SIPR (C) RACK RM 304A	12	20	1			0.18	2.00	1	30	10	TIE (C) UPS RM 304A	30
31	RECEPT RM 304A	12	20	1	0.90	1.08			1	20	12	RECEPT RM 304A	32
33	SURGE PROTECTIVE DEVICE	--	20	3		0.00	0.00		1	30	--	SPARE	34
35	--	--	--	--			0.00	0.00	1	20	--	SPARE	36
37	--	--	--	--	0.00	0.00			1	20	--	SPARE	38
39	SPARE	--	30	1		0.00	0.00		1	20	--	SPARE	40
41	SPARE	--	30	1			0.00	0.00	1	20	--	SPARE	42
TOTAL					9.2	7.3	9.1	KVA					
CONNECTED LOAD					79.3	60.5	78.0	AMPS					
DEMAND LOAD					25.6	KVA	71.0	AMPS					
DEMAND LOAD					25.6	KVA	71.0	AMPS					

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Equipment	23600 VA	100.00%	23600 VA	Total Conn. Load: 25580 VA Total Est. Demand: 25580 VA Total Conn.: 71 A Total Est. Demand: 71 A
RECEPT	1980 VA	100.00%	1980 VA	



Michael Baker INTERNATIONAL

100 AIRSIDE DRIVE MOON TOWNSHIP, PA 15108 A/E INF/0 APPROVED

FOR COMMANDER NAVFAC

ACTIVITY MARINE CORPS BASE CAMP LEJEUNE

SATISFACTORY TO DATE DES SD DRW LAK CHK YPS

PM

BRANCH MANAGER

CHIEF ENGINEER

FIRE PROTECTION

DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND ~ MID-ATLANTIC
 JACKSONVILLE, NC
 MCB CAMP LEJEUNE
 JACKSONVILLE, NC
 P1338 II MEF SIMULATION/TRAINING CENTER
 REPLACEMENT
 ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED

EPROJCT NO.: 1590892

CONSTR. CONTR. NO. N40085-20-C-0059

NAVFAC DRAWING NO.

SHEET OF

E-613

PLOTTED: 5/28/2021 2:59:04 PM

FILE NAME: BIM 360://HF PACKAGE 3P11338.MEF SIM CTR-1590892-E-01

A

B

C

D

A

B

C

D

UNCLASSIFIED

DP2 SUBMISSION - P1338 BUILDING - PRE-FINAL SUBMISSION