SYMBOL — POWER

Symbol	Description
LP2A-1,3	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.
EU	UNDERGROUND DUCTBANK: EU = DENOTES ELECTRICAL GAS = DENOTES GAS LINE OE = DENOTES OVERHEAD ELECTRIC LINE T = DENOTES TELECOMMUNICATIONS
	CONDUIT TURNED UP.
	CONDUIT TURNED DOWN.
TW	GROUND ROD TEST WELL
	GROUND ROD
	EXOTHERMIC WELD.
	CLAMP CONNECTOR
	BOLTED CONNECTION
	AIR TERMINAL
	GROUND / GROUND ROD / GEC
	LIGHTNING PROTECTION MAIN CONDUCTOR
G	BARE COPPER GROUNDING CONDUCTOR.
	GROUNDING BUSBAR
S Xa	WALL SWITCH UNLESS OTHERWISE NOTED MOUNTED 48"AFF. "X" REPRESENTS TYPE. "a" REPRESENTS LIGHTS SWITCHED. LV4 = 4 BUTTON LOW VOLTAGE SWITCH WITH RAISE/LOWER AND ON/OFF LV8 = 8 BUTTON LOW VOLTAGE SWITCH WITH RAISE/LOWER AND ON/OFF AND 4 ZONES TS = TIME SWITCH D = LOW VOLTAGE DIMMER - WITH RAISE/LOWER AND ON/OFF AND 4 ZONES LV = LOW VOLTAGE SWITCH = NO DESIGNATION IS STANDARD LINE VOLTAGE SWITCH 3,4 = 3 OR 4 WAY LINE VOLTAGE SWITCH AS INDICATED
	SINGLE, DUPLEX, 4-PLEX RECEPTACLE, MOUNTED 18"AFF UON. WP = WATERPROOF SP = SURGE SUPPRESSION TR = TAMPER RESISTANT AC = MOUNTED ABOVE COUNTER, 6" ABOVE COUNTERTOP SW = SWITCHED RECETPACLE
	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.
PB	PULLBOX SIZE PER NEC UNLESS OTHERWISE NOTED.
T	TRANSFORMER.
J	JUNCTION BOX SIZE PER NEC UNLESS OTHERWISE NOTED.
E	EQUIPMENT CONNECTION POINT.
	PANELBOARD SURFACE OR FLUSH MOUNTED AS INDICATED.
VFD	VARIABLE FREQUENCY DRIVE.
3	MOTOR CONNECTION. "3" REPRESENTS 3HP MOTOR.
M	SINGLE POLE MANUAL MOTOR STARTER, WITH THERMAL OVERLOAD PROTECTION.
100/3/3R	NON-FUSIBLE DISCONNECT. "100/3" DENOTES 100A, 3P, '3R'.
200/3/150	FUSIBLE DISCONNECT SWITCH. "200/3/150" DENOTES 200A, 3P, WITH 150A FUSES.
100/3/3R	ENCLOSED THERMAL MAGNETIC CIRCUIT BREAKER INDIVIDUALLY MOUNTED. "100/3" DENOTES 100A, 3P, 3R (NOTATION TYPICAL).
	MAGNETIC MOTOR STARTER INDIVIDUALLY MOUNTED.
100/3	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.
FB1	MULTISERVICE FLOOR BOX, . SEE E-502 FOR MORE INFORMATION.
FB2	MULTISERVICE FLOOR BOX, . SEE E-503 FOR MORE INFORMATION.
	EMERGENCY PUSH BUTTON
	PUSH BUTTON CONTROLLER
	HANDHOLE

SYMBOL — FLOORBOXES

Symbol	Description
	FLOORBOX LOCATION, TRAINING SIMULATION SYSTEM – UNCLASSIFIED; INSTALLED IN RAISED ACCESS FLOOR. PROVIDE 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. PROVIDE 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.
	FLOORBOX LOCATION, TRAINING SIMULATION SYSTEM – CLASSIFIED; INSTALLED IN RAISED ACCESS FLOOR. PROVIDE TWO (2) 5-20R RECEPTACLES FROM DEDICATED PANEL WITHIN ROOM TO FLOORBOX LOCATION. SEE DETAIL SHEET E-502 FOR TERMINATION DETAILS.
	FLOORBOX LOCATION, EXERCISE CONTROL – CLASSIFIED; INSTALLED IN RAISED ACCESS FLOOR. PROVDE 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-503 FOR TERMINATION DETAILS.

SYMBOL — GENERAL

Symbol	Description
X	SHEET KEYNOTE X = KEYNOTE NUMBER

SYMBOL — LIGHTING

Symbol	Description
A LP1-2b	STRIP LIGHTING FIXTURE. "LP1"=PANELBOARD, "2"=CIRCUIT NUMBER, "b"=SWITCH LETTER, "A"=FIXTURE TYPE LETTER. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
A LP1-2b	LIGHTING FIXTURE. "LP1"=PANELBOARD, "2"=CIRCUIT NUMBER, "b"=SWITCH LETTER, "A"=FIXTURE TYPE LETTER.
A LP1-2b	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.
A LP1-2	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.
PC	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.
W LP1-12	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, VACANCY SENSOR
D	WALL SWITCH DUAL TECH, VACANCY SENSOR - WITH DIMMING
OS	WALL SWITCH DUAL TECH, OCCUPANCY SENSOR
	CEILING MOUNTED, DUAL TECH LOW VOLTAGE OCCUPANCY SENSOR
	CEILING MOUNTED, LOW VOLTAGE ULTRASONIC CORRIDOR OCCUPANCY SENSOR - PROVIDE MASKING FOR CORRIDOR
	CEILING MOUNTED DUAL TECH LOW VOLTAGE VACANCY SENSOR
P	SMART POWER PACK, EQUAL TO nLIGHT. - PROVIDE WITH DIMMING
P	SMART PLUG LOAD POWER PACK, EQUAL TO nLIGHT.
LCP	LIGHTING CONTROL PANEL.
DC	DOOR CONTACT LIGHT SWITCH.
LVS	LOW VOLTAGE SWITCH

SYMBOL — PHASING

Symbol	Description
	NEW CONSTRUCTION
	DEMOLITION
	EXISTING TO REMAIN
RR RR RR	REMOVE AND RELOCATE
ER ER ER	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 MUST BE NEMA 1 UNLESS OTHERWISE NOTED. 3R=NEMA 3R, 4X=NEMA 4X, WP=WEATHERPROOF, AND XP=EXPLOSION PROOF.
4. PROVIDE GROUND CONDUCTOR FOR BRANCH, FEED, AND EQUIPMENT CIRCUITS SIZED PER NEC, UNLESS OTHERWISE INDICATED.
5. WHERE MULTIPLE CIRCUITS ARE COMBINED IN A SINGLE RACEWAY THE CONTRACTOR MUST DETERMINE THE EXACT NUMBER OF CONDUCTORS, ROUTING, AND SIZE OF THE RACEWAY. SIZE THE WIRE AMPACITY IN ACCORDANCE WITH THE NEC.
6. CONTRACTOR MUST COORDINATE 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. WIRING FOR LIGHTING AND POWER CIRCUITS MUST BE NO. 12 AWG MINIMUM.
9. WIRING FOR CONTROL MUST BE NO. 14 MINIMUM.
10. CONDUIT MUST 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 MUST 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 MUST BE CONNECTED TO THE UNSWITCHED PORTION OF THE LOCAL LIGHTING CIRCUIT IN COMPLIANCE WITH NEC 700.12 (F).
13. CONTRACTOR MUST COMPLY WITH CONTRACT REQUIREMENTS AND 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 DETAILS, WIRING, BOXES, COVERS, FITTINGS, AND SPECIAL CONSTRUCTION WHICH MAY BE NECESSARY OR REQUIRED. THIS CONTRACTOR MUST FURNISH, INSTALL, AND CONNECT REQUIRED WORK IN ORDER TO MAKE THE INSTALLATION COMPLETE AS INDICATED BY THIS SPECIFICATION AND THE DRAWINGS. "PROVIDE" MUST MEAN FURNISH AND INSTALL COMPLETE. "APPROVED" MUST MEAN APPROVED BY OWNER'S REPRESENTATIVE. "DIRECTED" MUST 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 MUST BECOME FAMILIAR WITH JOB CONDITIONS AND MUST ARRANGE WORK TO AVOID CONFLICTS. FINAL LOCATIONS OF CONDUITS, OUTLETS, AND EQUIPMENT MUST BE SUBJECT TO APPROVAL.
16. PROVIDE ITEMS INDICATED ON DRAWINGS AND REQUIRED BY SPECIFICATIONS, INCLUDING: SUPPORTS, HARDWARE AND ACCESSORIES, BRANCH CIRCUIT WIRING, AND DEVICES.
17. PRIOR TO EXECUTION OF THIS CONTRACT, VISIT THE SITE (BY APPOINTMENT) AND EXAMINE EXISTING CONDITIONS WHICH MAY AFFECT HIS WORK. SUBMISSION OF A BID MUST BE CONSIDERED INDICATIVE THAT THIS CONTRACTOR HAS VISITED THE SITE AND EXISTING CONDITIONS WHICH MAY AFFECT THE CONTRACT WORK AND COSTS RELATED TO SITE CONDITIONS IN THE AMOUNT BID HAVE BEEN INCLUDED.
18. PROVIDE ARC FLASH LABELING IAW NEC 110.16.
19. LISTED MATERIALS AND EQUIPMENT ARE INDICATIVE OF COMPLETE AND WHOLE UNITS (UNLESS SPECIFICALLY INDICATED TO THE CONTRARY) AND MUST BE FURNISHED AS SUCH.
20. CONSTRUCTION UNDER THIS CONTRACT MUST BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE. THE CONTRACTOR MUST REMOVE AND REPLACE WORK WHICH IS NOT INSTALLED AS APPROVED.
21. UNLESS NOTED OTHERWISE, MATERIALS AND EQUIPMENT MUST BE APPROVED QUALITY, SPECIFICATION GRADE, AND LISTED BY UNDERWRITER'S LABORATORIES OF NATIONAL BOARD OF FIRE UNDERWRITERS.
22. CUTTING REQUIRED FOR THE INSTALLATION OF ELECTRICAL CONSTRUCTION UNDER THIS CONTRACT MUST BE ACCOMPLISHED IN SUCH MANNER AS NOT TO CAUSE STRUCTURAL OR ARCHITECTURAL DAMAGE TO BUILDING OR LEAVE UNSIGHTLY SURFACES. THIS CONTRACTOR MUST 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. PATCHING AND RESTORING OF SURFACES MUST BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND MUST BE SUBJECT TO APPROVAL.
23. PROVIDE ROUGH-IN CONNECTIONS FOR OFOI/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 MUST 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.
25. BE CURRENT ON LICENSES AND CERTIFICATIONS REQUIRED IN THE STATE OF NORTH CAROLINA FOR THE INSTALLATION, SPLICING, AND TERMINATION OF MEDIUM VOLTAGE CABLES AND ASSOCIATED MEDIUM VOLTAGE WORK.

SYMBOL — SINGLE-LINE DIAGRAM

Symbol	Description
	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
VFD	VARIABLE FREQUENCY DRIVE WITH INTERNAL OVERCURRENT DISCONNECT DEVICE.
	WOOD UTILITY POLE
	ATS
	GROUNDING ELECTRODE
G	GENERATOR
M	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		
NESC	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		

SYM	DESCRIPTION	DATE	APVR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS — SENOL DURUR — ELECTRICAL — No. 47946 — REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY — A JOINT VENTURE —

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CLAMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SD	DRW LAK	CHK VPS

PM / DM	TOWLER / ROOT
BRANCH HEAD	SEK
DESIGN DIRECTOR	PAUL K. SHREM
FIRE PROTECTION	DPS

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NORFOLK, VA

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION

JACKSONVILLE, NC

MCB CAMP LEJEUNE
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - NOTES, SYMBOLS, AND ABBREVIATIONS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098552
SHEET 321 OF 456

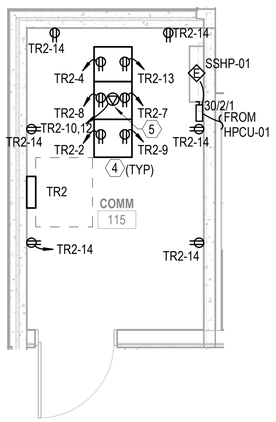
E-001

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC '21

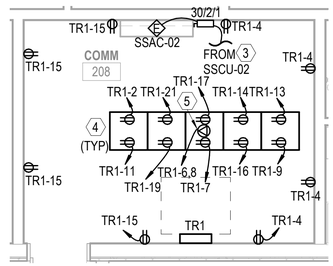
PLOTTED: 11/22/2021 3:56:07 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



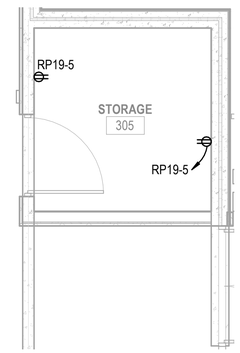
C1 POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" (EP111)



C2 POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" (EP112)



C3 POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" (EP113)

KEYNOTES

7 CEILING MOUNTED JUNCTION BOX FOR POWER TO LOUVER TRANSFORMERS. 120V POWER MUST BE PROVIDED BY THE EC TO EACH TRANSFORMER. LOW VOLTAGE WIRING FROM THE TRANSFORMER TO THE LOUVER IS BY OTHERS. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.

8 EMERGENCY POWER OFF (EPO) BOX. EACH EPO BOX HAS AN EIGHT (8) CIRCUIT CAPACITY WITH ONE CIRCUIT BEING REQUIRED FOR EACH UPS. USE THE SAME BRANCH CIRCUIT FOR ALL EPO BOXES IN THE ROOM. SEE DETAILS ON SHEETS E-504 AND E-505 FOR MORE INFORMATION. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.

9 NEMA 5-20R RECEPTACLE - 120V, 1PH, 20A. COORDINATE MOUNTING AND INSTALLATION OF THE RECEPTACLES WITH THE ACTIVITY.

10 NEMA L6-30R RECEPTACLE - 208V, 1PH, 30A. COORDINATE MOUNTING AND INSTALLATION OF THE RECEPTACLES WITH THE ACTIVITY.

11 CONFIRM ALL UPS'S ARE EQUIPPED WITH EPO SWITCHES BEFORE MATERIAL PURCHASE AND INSTALLATION.

12 IF NORMALLY OPEN CONTACTS ARE USED:
A. IF THE EPO SWITCH OR RELAY CONTACTS ARE NORMALLY OPEN, INSERT THE WIRES FROM THE SWITCH OR CONTACTS AT PINS 1 AND 2 OF THE EPO TERMINAL BLOCK. USE 16-28 AWG WIRE.
B. SECURE THE WIRES BY TIGHTENING THE SCREWS. IF THE CONTACTS ARE CLOSED, THE UPS WILL TURN OFF AND POWER WILL BE REMOVED FROM THE LOAD.

13 IF NORMALLY CLOSED CONTACTS ARE USED:
A. IF THE EPO SWITCH OR RELAY CONTACTS ARE NORMALLY CLOSED, INSERT THE WIRES FROM THE SWITCH OR CONTACTS AT PINS 2 AND 3 OF THE EPO TERMINAL BLOCK. USE 16-28 AWG WIRE.
B. INSERT A WIRE JUMPER BETWEEN PINS 1 AND 2. SECURE THE WIRES BY TIGHTENING THE THREE SCREWS AT POSITIONS 1, 2, AND 3. IF THE CONTACTS ARE OPEN, THE UPS WILL TURN OFF AND POWER WILL BE REMOVED FROM THE LOAD.

14 NEMA L5-30R RECEPTACLE - 120V, 1PH, 30A. COORDINATE MOUNTING AND INSTALLATION OF THE RECEPTACLES WITH THE ACTIVITY.

GENERAL NOTES

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

2 FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

3 RECEPTACLE CONTROL PLUG LOAD POWER PACKS ARE INDICATED ON LIGHTING SHEETS EL111-EL114 WITH LIGHTING POWER PACKS. POWER PACKS LOCATED ABOVE ACCESSIBLE CEILING. COORDINATE WITH DETAIL B1 ON SHEET E-507

KEYNOTES

1 POWER ELECTRICAL CONNECTION FOR HARDWIRE INPUT TO 10KVA UPS.

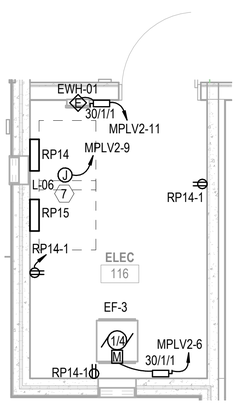
2 PROVIDE 4-INCH THICK CONCRETE PAD WITH CHAMFERED EDGES FOR FLOOR MOUNTED EQUIPMENT. EXTEND PAD 6-INCH BEYOND EDGE OF EQUIPMENT.

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 TWO (2) DEDICATED NEMA 5-20R RECEPTACLES - 120V, 1PH, 20A PER TELECOMMUNICATIONS RACK. RECEPTACLES MUST BE INSTALLED 6" ABOVE AND 6" BEHIND THE TELECOM RACKS ON A PIECE OF CHANNELED STRUT SUPPORTED FROM THE CEILING BY A THREADED ROD ACROSS THE BACK OF THE TELECOM CABINETS. RECEPTACLE MOUNTED TO CHANNELED STRUT AND CONDUIT FED FROM CEILING DOWN TO THE OUTLETS.

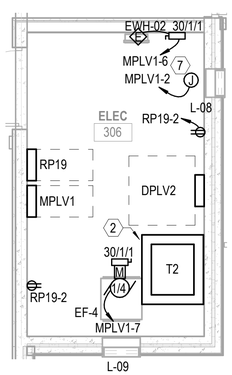
5 L6-30R TWIST LOCK RECEPTACLE - 208V, 1PH, 30A. RECEPTACLE MUST BE INSTALLED 6" ABOVE AND 6" BEHIND TELECOM RACKS ON A PIECE OF CHANNELED STRUT SUPPORTED FROM THE CEILING BY A THREADED ROD ACROSS THE BACK OF THE TELECOM CABINETS. RECEPTACLE MOUNTED TO CHANNELED STRUT AND CONDUIT FED FROM CEILING DOWN TO THE OUTLETS.

6 TWO (2) DEDICATED NEMA 5-20R RECEPTACLES - 120V, 1PH, 20A PER SERVER RACK. COORDINATE MOUNTING AND INSTALLATION OF THE RECEPTACLES WITH THE ACTIVITY.



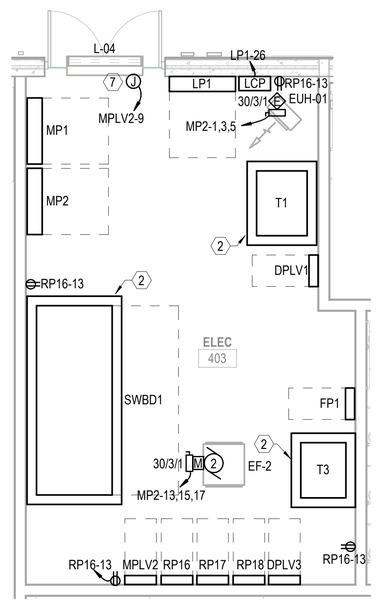
A1 POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" (EP111)



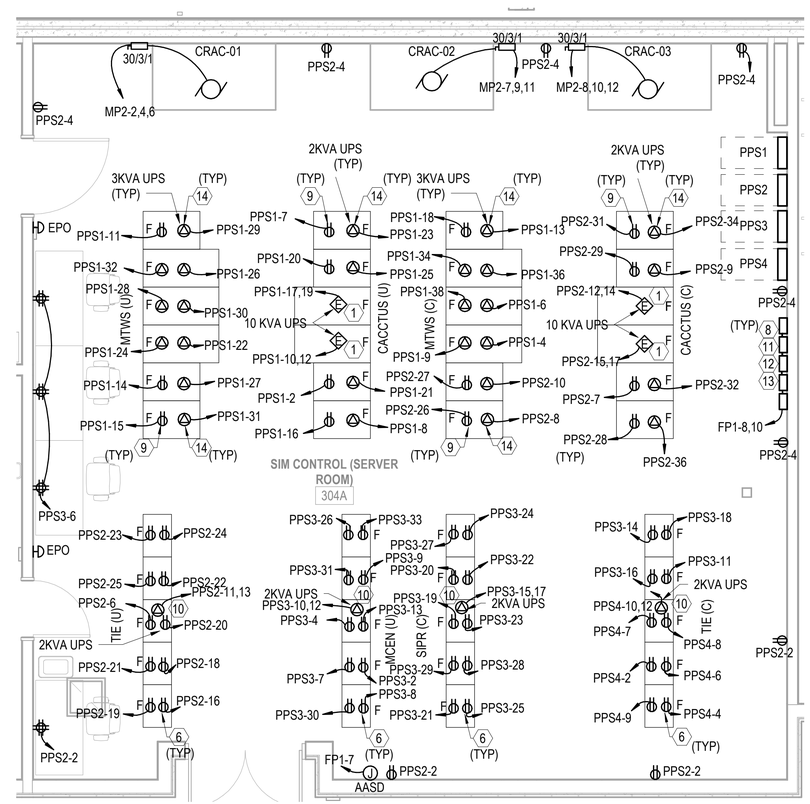
A2 POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" (EP113)



A3 POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" (EP111)



A4 POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" (EP113)

0 2'-0" 4'-0" 8'-0"

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

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ Jordan COMPANY - A JOINT VENTURE -

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES BD | DRW LDR | CHK VPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
JACKSONVILLE, NC
MCB CAMP LEJEUNE
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. 14098581
SHEET 350 OF 456

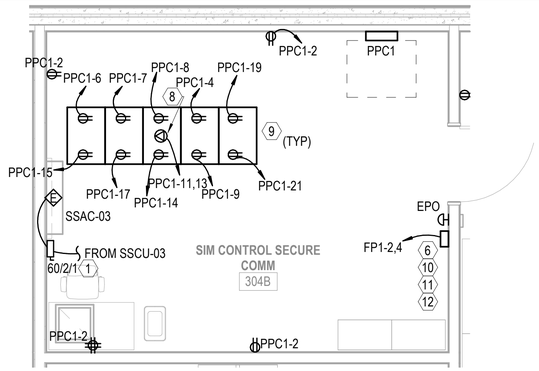
E-401

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

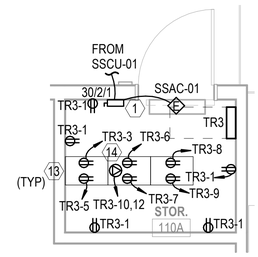
PLOTTED: 11/22/2021 3:56:14 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



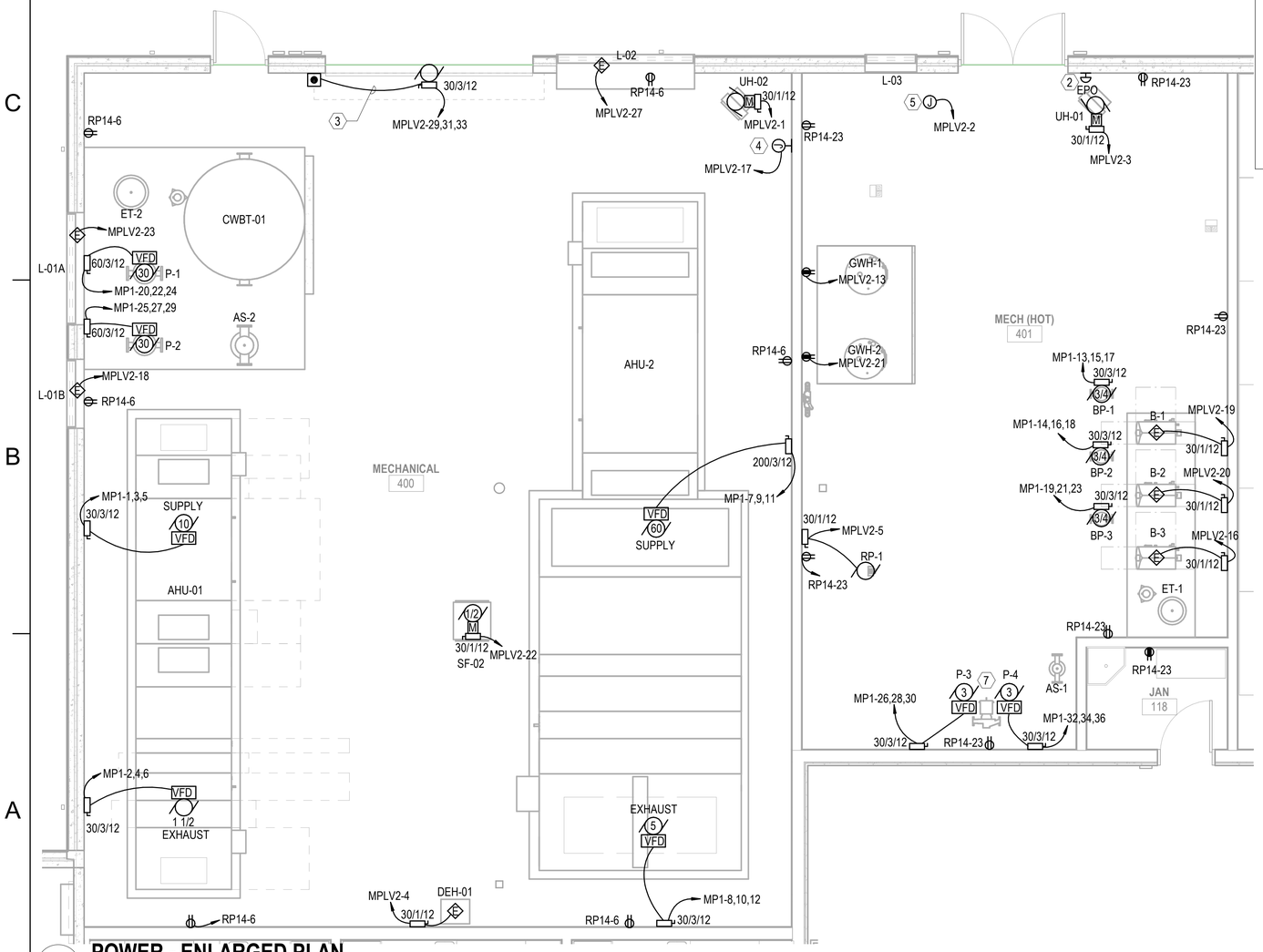
C1 POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" (EP112)



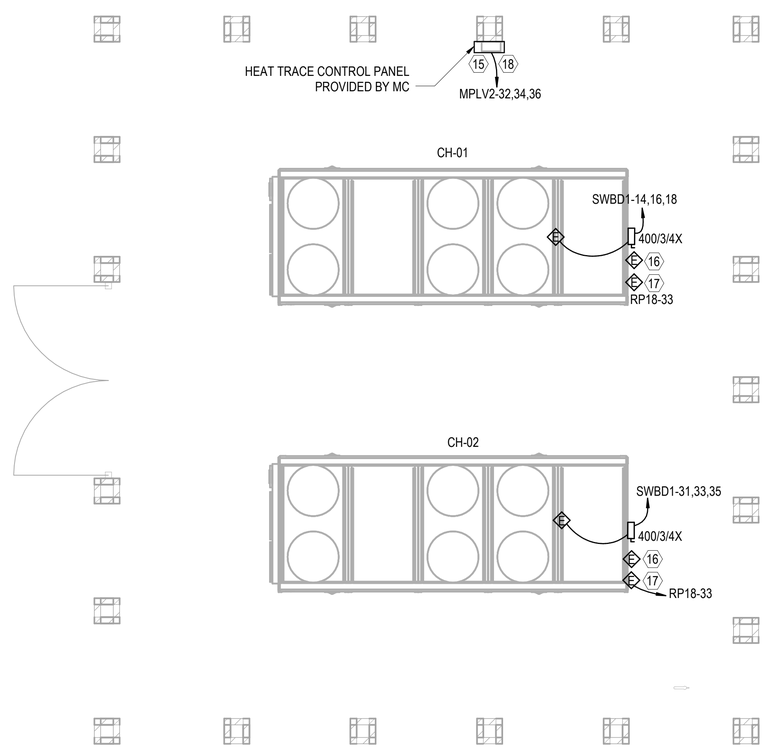
C2 POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" (EP111)



A1 POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" (EP111)



A4 POWER - ENLARGED PLAN

SCALE: 1/4" = 1'-0" (ES101)

0 2'-0" 4'-0" 8'-0"

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

N

KEYNOTES

10 CONFIRM ALL UPS'S ARE EQUIPPED WITH EPO SWITCHES BEFORE MATERIAL PURCHASE AND INSTALLATION.

11 IF NORMALLY OPEN CONTACTS ARE USED:
A. IF THE EPO SWITCH OR RELAY CONTACTS ARE NORMALLY OPEN, INSERT THE WIRES FROM THE SWITCH OR CONTACTS AT PINS 1 AND 2 OF THE EPO TERMINAL BLOCK. USE 16-28 AWG WIRE.
B. SECURE THE WIRES BY TIGHTENING THE SCREWS. IF THE CONTACTS ARE CLOSED, THE UPS WILL TURN OFF AND POWER WILL BE REMOVED FROM THE LOAD.

12 IF NORMALLY CLOSED CONTACTS ARE USED:
A. IF THE EPO SWITCH OR RELAY CONTACTS ARE NORMALLY CLOSED, INSERT THE WIRES FROM THE SWITCH OR CONTACTS AT PINS 2 AND 3 OF THE EPO TERMINAL BLOCK. USE 16-28 AWG WIRE.
B. INSERT A WIRE JUMPER BETWEEN PINS 1 AND 2. SECURE THE WIRES BY TIGHTENING THE THREE SCREWS AT POSITIONS 1, 2, AND 3. IF THE CONTACTS ARE OPEN, THE UPS WILL TURN OFF AND POWER WILL BE REMOVED FROM THE LOAD.

13 TWO (2) DEDICATED NEMA 5-20R RECEPTACLES - 120V, 1PH, 20A PER TELECOMMUNICATIONS RACK. RECEPTACLES MUST BE INSTALLED 6" ABOVE AND 6" BEHIND THE TELECOM RACKS ON A PIECE OF CHANNELED STRUT SUPPORTED FROM THE CEILING BY A THREADED ROD ACROSS THE BACK OF THE TELECOM CABINETS. RECEPTACLE MOUNTED TO CHANNELED STRUT AND CONDUIT FED FROM CEILING DOWN TO THE OUTLETS.

14 L6-30R TWIST LOCK RECEPTACLE - 208V, 1PH, 30A. RECEPTACLE MUST BE INSTALLED 6" ABOVE AND 6" BEHIND TELECOM RACKS ON A PIECE OF CHANNELED STRUT SUPPORTED FROM THE CEILING BY A THREADED ROD ACROSS THE BACK OF THE TELECOM CABINETS. RECEPTACLE MOUNTED TO CHANNELED STRUT AND CONDUIT FED FROM CEILING DOWN TO THE OUTLETS.

15 ELECTRICAL CONNECTION FOR CHILLER HEAT TRACING CONTROL PANEL. COORDINATE EXACT POWER CONNECTION LOCATION WITH MECHANICAL DRAWINGS PRIOR TO ROUGH IN. PROVIDE 20A BREAKER WITH 30mA GROUND FAULT TRIP. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.

16 PROVIDE SEPARATE DEDICATED CIRCUIT FOR EACH CHILLER INTERNAL HEAT TRACING FROM HEAT TRACING CONTROL PANEL.

17 ELECTRICAL POWER CONNECTION FOR CHILLER CONVENIENCE RECEPTACLES.

18 PROVIDE SEPARATE DEDICATED CIRCUIT FOR EXTERNAL PIPE HEAT TRACING FROM HEAT TRACING CONTROL PANEL.

GENERAL NOTES

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

2 FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.

3 RECEPTACLE CONTROL PLUG LOAD POWER PACKS ARE INDICATED ON LIGHTING SHEETS EL111-EL114 WITH LIGHTING POWER PACKS. POWER PACKS LOCATED ABOVE ACCESSIBLE CEILING. COORDINATE WITH DETAIL B1 ON SHEET E-507

KEYNOTES

1 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.

2 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.

3 CONDUIT BY ELECTRICAL CONTRACTOR. LOW VOLTAGE WIRING BY OTHERS.

4 PROVIDE 120V POWER CONNECTION FOR DDC CONTROLLER. COORDINATE EXACT LOCATION WITH MECHANICAL/CONTROLS CONTRACTOR PRIOR TO ROUGH IN.

5 CEILING MOUNTED JUNCTION BOX FOR POWER TO LOUVER TRANSFORMERS. 120V POWER MUST BE PROVIDED BY THE EC TO EACH TRANSFORMER. LOW VOLTAGE WIRING FROM THE TRANSFORMER TO THE LOUVER IS BY OTHERS. COORDINATE LOCATION AND QUANTITY WITH MECHANICAL INSTALLATION.

6 EMERGENCY POWER OFF (EPO) BOX. EACH EPO BOX HAS AN EIGHT (8) CIRCUIT CAPACITY WITH ONE CIRCUIT BEING REQUIRED FOR EACH UPS. USE THE SAME BRANCH CIRCUIT FOR ALL EPO BOXES IN THE ROOM. SEE DETAILS ON SHEETS E-504 AND E-505 FOR MORE INFORMATION. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.

7 PUMPS ARE VERTICALLY STACKED. COORDINATE WITH INSTALLATION OF THE PUMPS.

8 NEMA L6-30R RECEPTACLE - 208V, 1PH, 30A. COORDINATE MOUNTING AND INSTALLATION OF THE RECEPTACLES WITH THE ACTIVITY.

9 NEMA 5-20R RECEPTACLE - 120V, 1PH, 20A. COORDINATE MOUNTING AND INSTALLATION OF THE RECEPTACLES WITH THE ACTIVITY.

SYM	DESCRIPTION	DATE	APVR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY
~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO	DRW LK	CHK VPS	
PM / DM	TOWLER / ROOT		
BRANCH HEAD	SEK		
DESIGN DIRECTOR	PAUL K. SHREM		
FIRE PROTECTION	DPS		

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB 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. 14098582
SHEET 351 OF 456

E-402

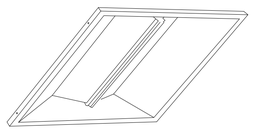
DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:19 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

FIXTURE: A1, A2, A3, B1, C1



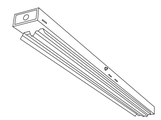
LUMINAIRE REQUIREMENTS:

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. 3500K COLOR TEMPERATURE UON, MAXIMUM BINNING TOLERANCE OF A 4-STEP MCADAM ELLIPSE, MINIMUM EFFICACY OF 126 LUMENS/WATT, WITH A MINIMUM CRI OF 80. 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.

DIRECT/INDIRECT LED TROFFER

REVISED: APRIL 2016 | LIGHTING PLATE: NL-1

FIXTURE: S1



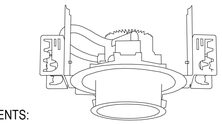
LUMINAIRE REQUIREMENTS:

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, 3500K CCT UON, MINIMUM 80 CRI, MAXIMUM 4-STEP MCADAM ELLIPSE BINNING TOLERANCE FOR COLOR CONSISTENCY, AND MINIMUM EFFICACY OF 128 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.

LED INDUSTRIAL STRIP

REVISED: APRIL 2016 | LIGHTING PLATE: NL-7

FIXTURE: D1, D2, D3, D4, D5



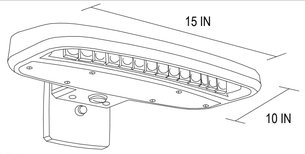
LUMINAIRE REQUIREMENTS:

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.

LED RECESSED DOWNLIGHT

REVISED: APRIL 2016 | LIGHTING PLATE: NL-19

FIXTURE: W1



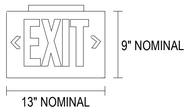
LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-CAST OR EXTRUDED ALUMINUM WITH INTEGRAL PASSIVE COOLING MECHANISM. HEAT SINK MUST 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 MUST 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 MUST 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 MUST BE 108 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) MUST BE 80 FOR CORRELATED COLOR TEMPERATURE (CCT) OF 4000 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-PROPRIETY 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.

LED WALL PACK

REVISED: MARCH 2013 | LIGHTING PLATE: XL-17

FIXTURE: EX



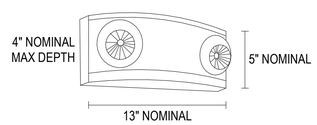
LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-CAST ALUMINUM. 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



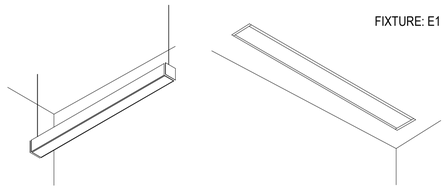
LUMINAIRE REQUIREMENTS:

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 LED LAMPS MUST 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. COMLIES 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

FIXTURE: E1



NOTE: 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.

LUMINAIRE REQUIREMENTS:

1. HOUSING - HEAVY GAUGE COLD ROLLED STEEL, EXTRUDED ALUMINUM, OR DIE CAST ALUMINUM BODY. SIZE AS INDICATED IN LUMINAIRE SCHEDULE.
2. OPTICS - FROSTED ACRYLIC OR POLYCARBONATE LENS. LAMBERTIAN, NARROW, WIDE, OR ASYMMETRIC LIGHT DISTRIBUTION AS INDICATED IN LUMINAIRE SCHEDULE.
3. LIGHT SOURCE - SOLID STATE LEDS, 3500K CCT UON, MINIMUM 80 CRI UON, AND MINIMUM EFFICACY OF 90 LUMENS/WATT UON. 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, AND < 20% THD. ON-OFF CONTROL AND FULLY DIMMABLE DOWN TO 10% MINIMUM OR AS INDICATED IN LUMINAIRE SCHEDULE.
5. CERTIFICATION - UL LISTED FOR DRY OR DAMP LOCATION, ROHS COMPLIANT, DLC QUALIFIED. COMPLIES WITH IES LM79, LM80 AND TM21 TESTING STANDARDS.
6. MOUNTING - PENDANT, STEM, OR SURFACE MOUNTED WITH STAINLESS STEEL MOUNTING HARDWARE, OR RECESSED IN HARD OR ACOUSTICAL TILE CEILING.
7. OPTIONS - EMERGENCY BATTERY BACK-UP, INTEGRAL OCCUPANCY/VACANCY SENSOR, VARIOUS PROFILE DIMENSIONS AND RUN LENGTHS, AND VARIOUS CLEAR OR FROSTED POLYCARBONATE LENSES, BAFFLES, OR LOUVERS.

LINEAR LED SLOT

REVISED: NOVEMBER 2020 | LIGHTING PLATE: NL-4

SYM	DESCRIPTION	DATE	APP

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SD | DRW LK | CHK VPS
PM / DM: TOWLER / ROOT
BRANCH HEAD: SEK
DESIGN DIRECTOR: PAUL K. SHREM
FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
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. 14098583
SHEET 352 OF 456

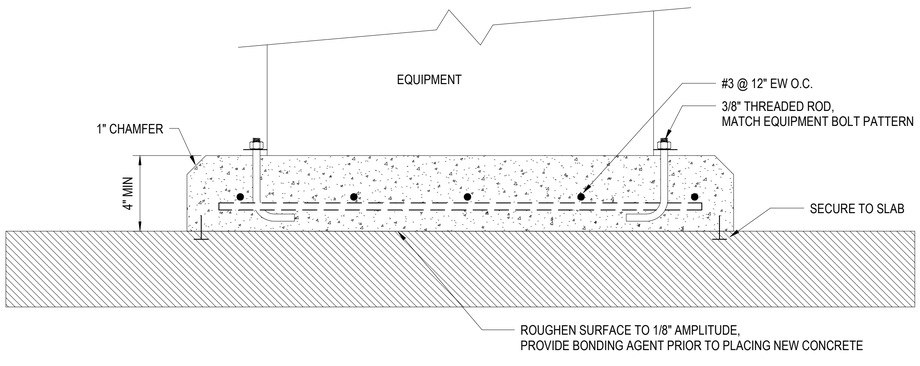
E-501

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

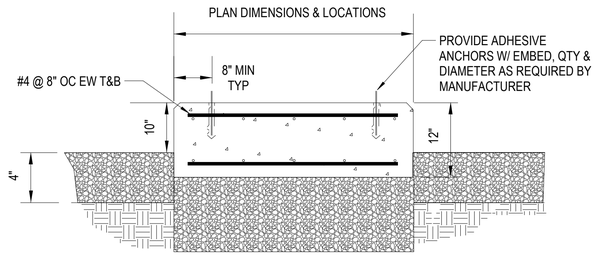
PLOTTED: 11/22/2021 3:56:20 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



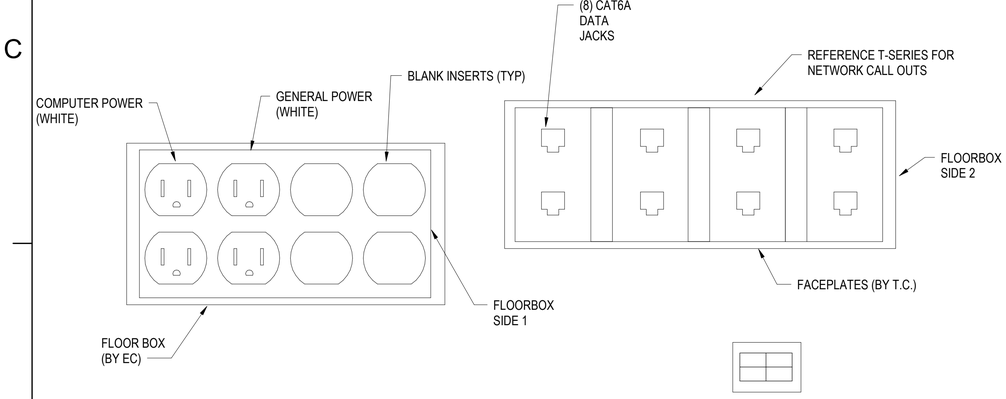
C1 TYPICAL EQUIPMENT PAD DETAIL

SCALE: NTS



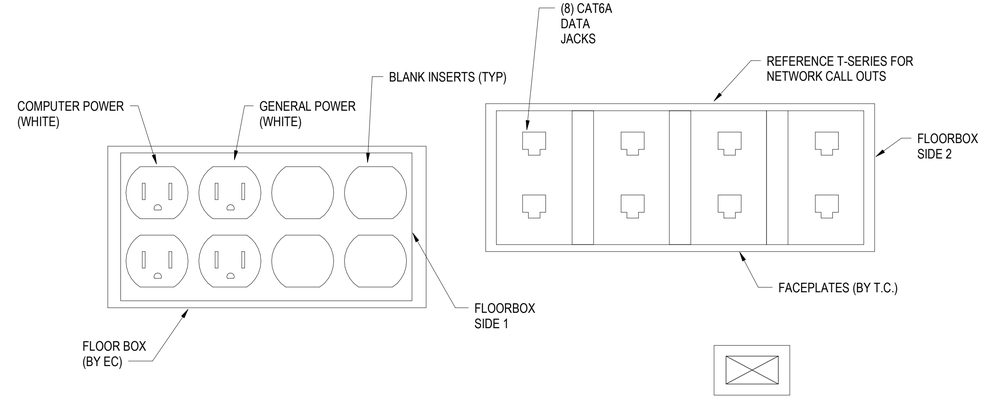
C3 GENERATOR PAD DETAIL

SCALE: NTS



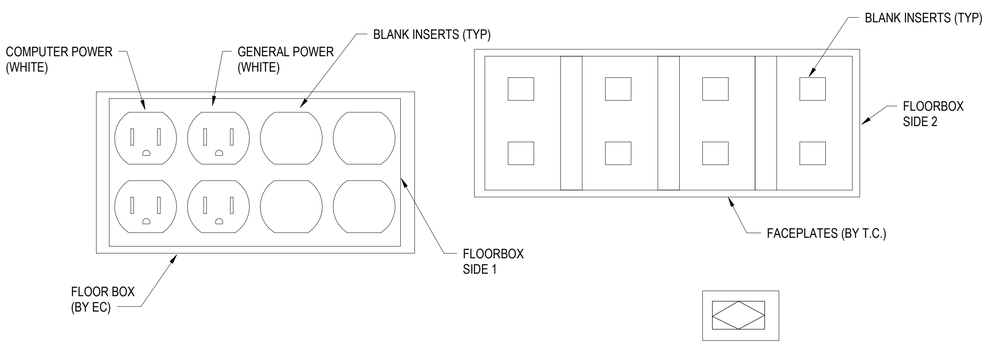
B1 TYPICAL FLOORBOX FACEPLATES - CLASSIFIED

SCALE: NTS



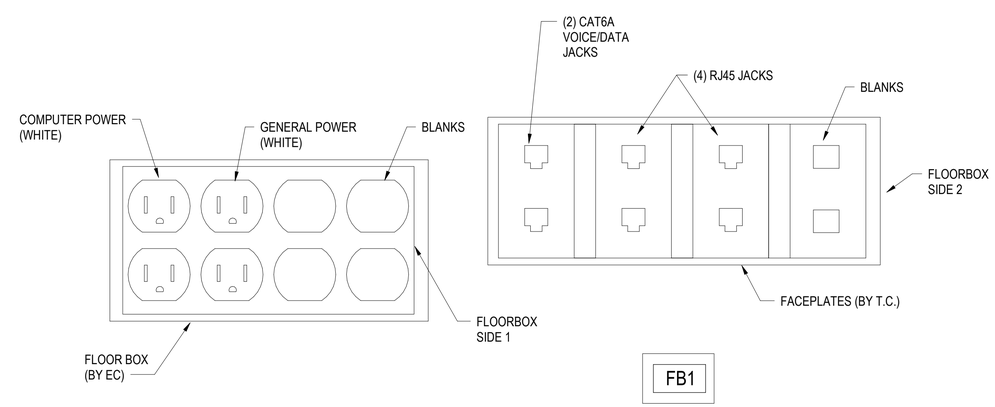
B3 TYPICAL FLOORBOX FACEPLATES - UNCLASSIFIED

SCALE: NTS



A1 TYPICAL FLOORBOX FACEPLATES - POWER ONLY

SCALE: NTS



A3 TYPICAL FLOORBOX FACEPLATES - FB1

SCALE: NTS

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ Jordan WM COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW UK | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
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.
14098584

SHEET 353 OF 456

E-502

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

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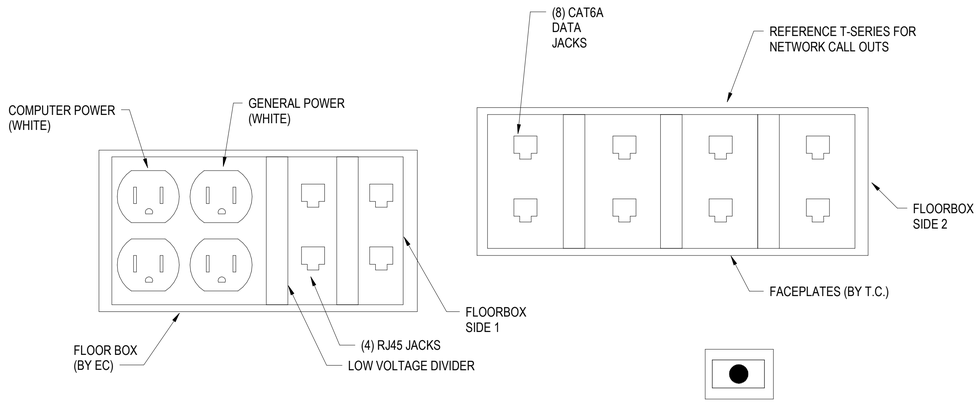
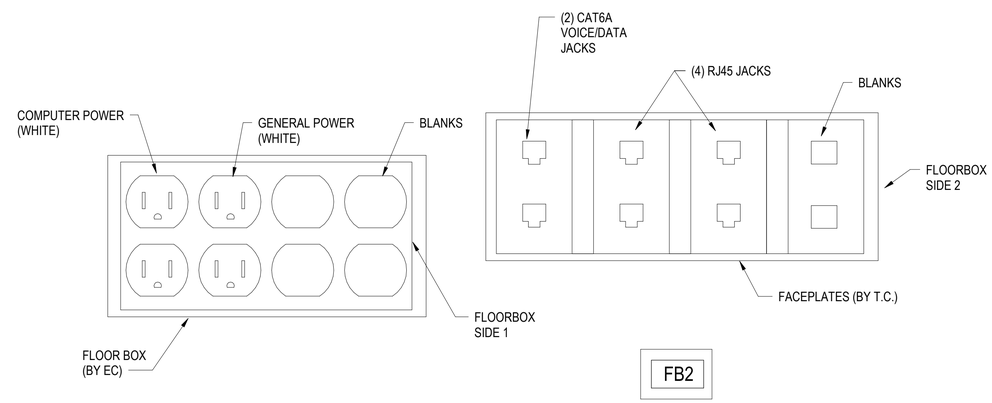


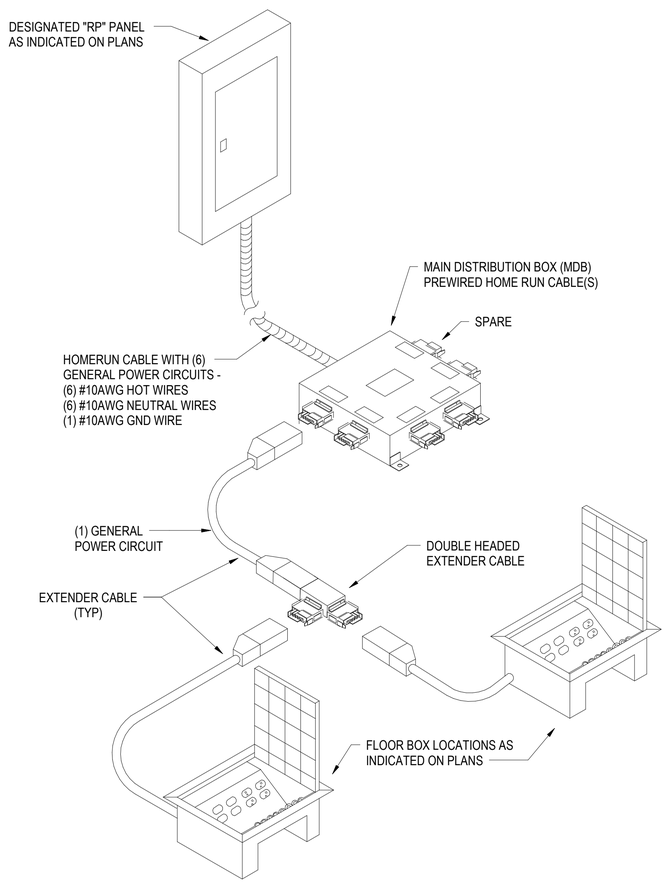
C1 TYPICAL FLOORBOX FACEPLATES - CLASSIFIED WITH AV

SCALE: NTS



C3 TYPICAL FLOORBOX FACEPLATES - SLAB ON GRADE

SCALE: NTS



A1 TYPICAL MODULAR POWER DISTRIBUTION SYSTEM

SCALE: NTS

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW UK | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
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.
14098585

SHEET 354 OF 456

E-503

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:23 PM

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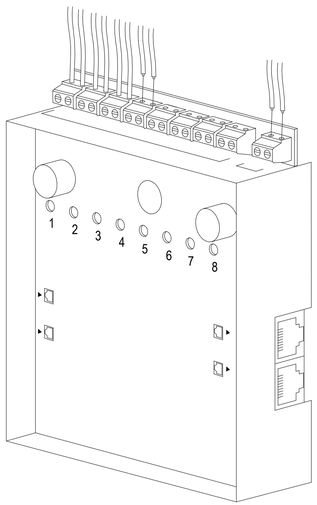
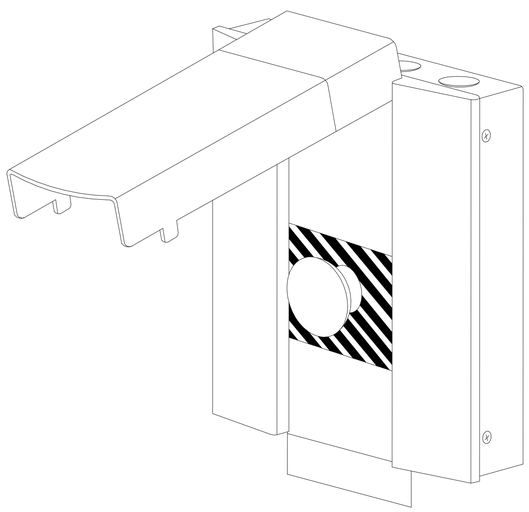


EMERGENCY POWER OFF (EPO) BOX - WIRING TERMINALS (INTERNAL)

C1

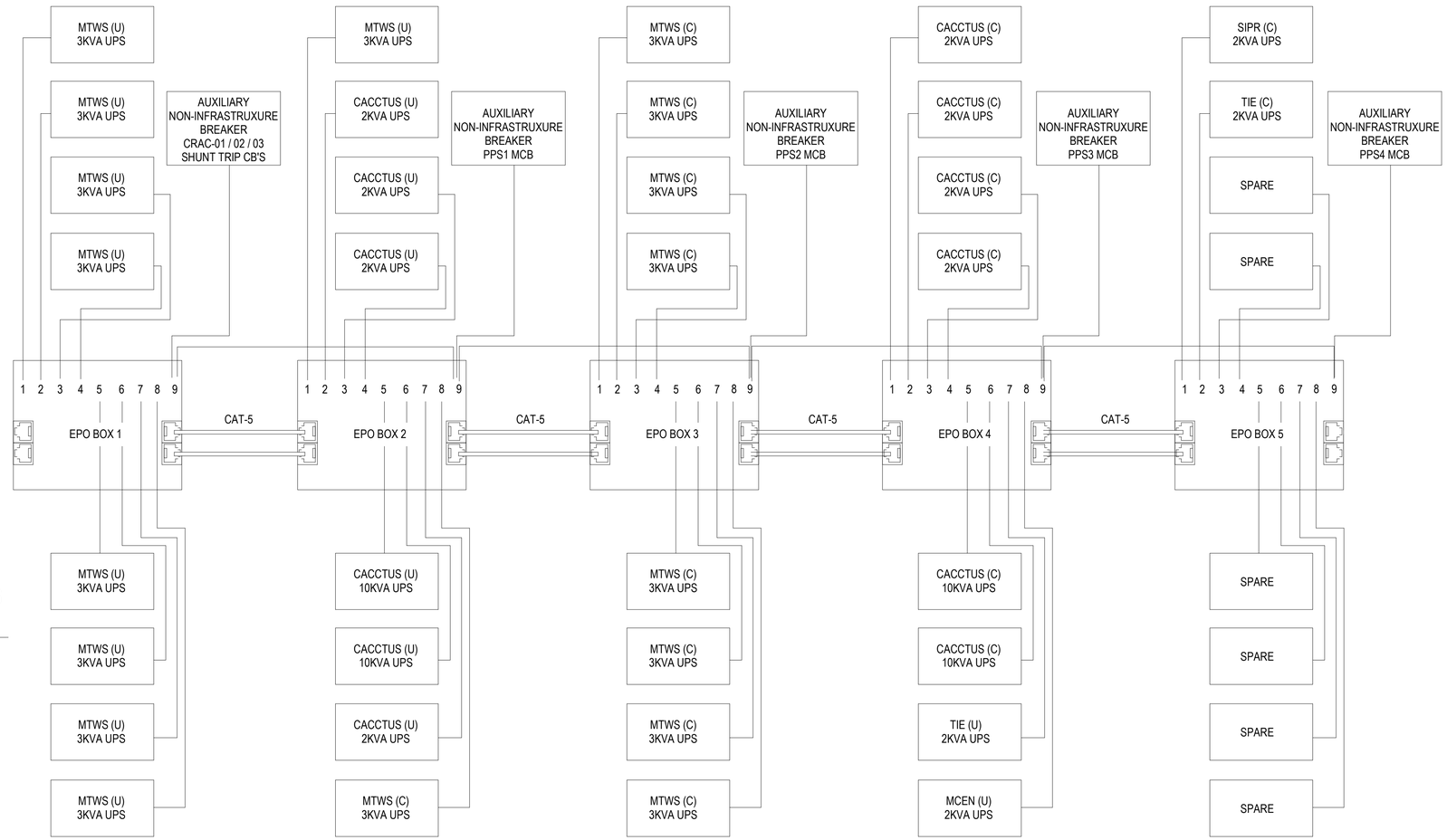
SCALE: NTS



EMERGENCY POWER OFF (EPO) SYSTEM - SWITCH

A1

SCALE: NTS



EMERGENCY POWER OFF (EPO) SYSTEM - WIRING DIAGRAM (SERVER ROOM)

A3

SCALE: NTS

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SD | DRW LK | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA

MCB CAMP LEJEUNE
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.
14098586

SHEET 355 OF 456

E-504

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:24 PM

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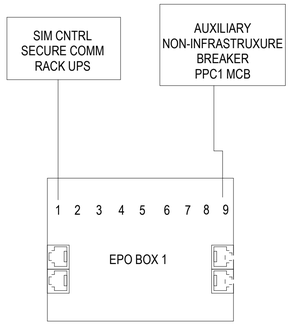

EMERGENCY POWER OFF (EPO) SYSTEM - WIRING DIAGRAM (SECURE COMM)

C1

SCALE: NTS

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY
– A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW UK | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
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.
14098587

SHEET 356 OF 456

E-505

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:25 PM

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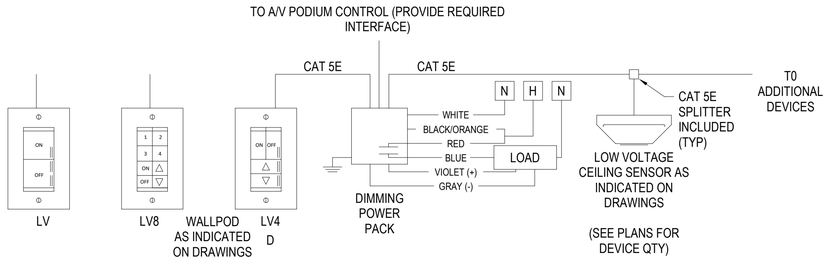
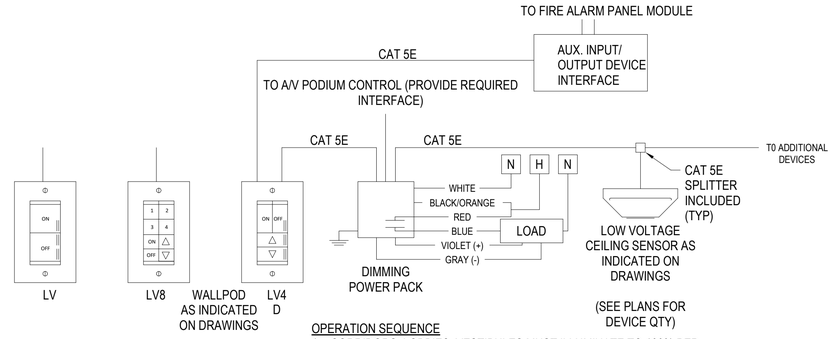


ZONING FOR 8 BUTTON SWITCHES
1. PROVIDE CONTROL OF UP TO 4 ZONES OF LIGHT (3 ZONES FOR CLASSROOMS).
2. PROVIDE WITH RAISE/LOWER AND ON/OFF.
3. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES MUST TURN OFF.
4. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS.
5. PROVIDE INTERFACE FOR LIGHTING CONTROL FROM A/V PODIUM CONTROL, AT PODIUM LOCATIONS.

OPERATION SEQUENCE
1. CORRIDORS, LOBBIES, VESTIBULES MUST ILLUMINATE TO 100% PER OCCUPANCY SENSOR SIGNAL. OTHER SPACES MUST BE PROGRAMMED TO 50% AUTO ON PER OCCUPANCY SENSOR SIGNAL. VACANCY SENSOR IS MANUAL ON.
2. LIGHT FIXTURE MUST CONTINUOUSLY DIM / BRIGHTEN BASED UPON INPUT FROM THE DIMMER.
3. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES MUST TURN OFF.
4. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS.

C1 CEILING OCCUPANCY / VACANCY SENSOR - DIMMING

SCALE: NTS

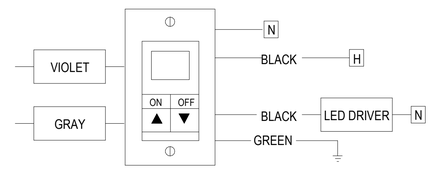


OPERATION SEQUENCE
1. CORRIDORS, LOBBIES, VESTIBULES MUST ILLUMINATE TO 100% PER OCCUPANCY SENSOR SIGNAL. OTHER SPACES MUST BE PROGRAMMED TO 50% AUTO ON PER OCCUPANCY SENSOR SIGNAL. VACANCY SENSOR IS MANUAL ON.
2. LIGHT FIXTURE MUST CONTINUOUSLY DIM / BRIGHTEN BASED UPON INPUT FROM THE DIMMER.
3. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES MUST TURN OFF.
4. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS.

LIGHTING CONTROL SYSTEM NOTES
1. PROVIDE AN AUXILARY INPUT/OUTPUT INTERFACE TO ALLOW INPUT FROM FIRE ALARM PANEL TO OVERRIDE LIGHTING CONTROLS. PROGRAM STANDALONE DEVICES SO THAT ALL CONTROLLED LIGHTING ALONG THE PATH OF EGRESS COMES TO FULL BRIGHTNESS UPON FIRE ALARM ACTIVATION. ROOMS NOT WITHIN THE PATH OF EGRESS SUCH AS PRIVATE OFFICES, SMALL STORAGE ROOMS, PRIVATE RESTROOMS, ETC. ARE NOT REQUIRED TO HAVE INDICATED INTERFACE.
2. SEE KEY NOTES ON PLAN DRAWINGS INDICATING LOCATION FOR FIRE ALARM I/0 LIGHTING CONTROL INTERFACE.
3. MULTIPLE ROOMS CAN BE TIED TOGETHER VIA CAT 5 WIRING, NOT TO EXCEED 16 CHANNELS. CONTRACTOR TO DETERMINE EXACT GROUPING. COORDINATE WITH MANUFACTURER FOR REQUIRED ACCESSORIES AND COMPONENTS FOR A COMLETE AND OPERATIONAL SYSTEM, INCLUDING REQUIRED PROGRAMMING.
4. COORDINATE FIRE ALARM INTERFACE WITH EXACT LIGHTING CONTROL MANUFACTURER FOR REQUIRED COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM.
5. FIRE ALARM INPUT MUST BE SPLIT TO PROVIDE MULTIPLE INPUTS TO I/0 MODULES AS REQUIRED TO PROVIDE REQUIRED LIGHTING CONTROL. FIRE ALARM SIGNAL MUST NOT BE LOST.

C3 CEILING OCCUPANCY / VACANCY SENSOR - DIMMING W/ I/0 FIRE ALARM INTERFACE

SCALE: NTS

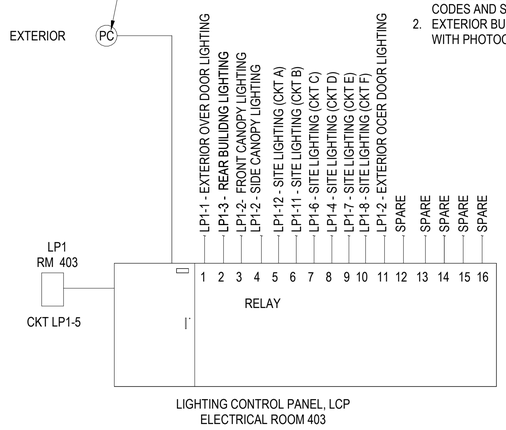


WALL SWITCH
DIMMING OCCUPANCY/VACANCY SENSOR

OPERATION SEQUENCE
1. DEVICE MUST BE PROGRAMMED TO 50% AUTO ON PER OCCUPANCY SENSOR SIGNAL. VACANCY SENSOR IS MANUAL ON.
2. LIGHT FIXTURE MUST CONTINUOUSLY DIM / BRIGHTEN BASED UPON INPUT FROM THE DIMMER.
3. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES MUST TURN OFF.
4. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS

ROOFTOP MOUNTED PHOTOCELL. LOCATE AND AIM NORTH PER MANUFACTURER'S RECOMMENDATION.

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

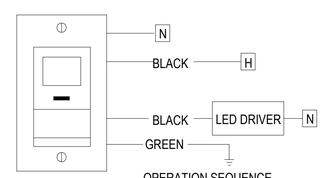


A1 TYPICAL EXTERIOR LTG CONTROL WIRING DIAGRAM

SCALE: NTS

B3 WALL SWITCH OCCUPANCY / VACANCY SENSOR - DIMMING

SCALE: NTS



WALL SWITCH
OCCUPANCY /
VACANCY SENSOR

OPERATION SEQUENCE
1. DEVICE MUST TURN LIGHTING 100% ON PER OCCUPANCY SIGNAL. VACANCY MUST BE MANUAL ON.
2. AFTER 15 MINUTES OF NO OCCUPANCY, LIGHT FIXTURES MUST TURN OFF.
3. TYPICAL APPLICATION: AS INDICATED ON DRAWINGS

A3 WALL SWITCH OCCUPANCY / VACANCY SENSOR - NON-DIMMING

SCALE: NTS

MARK	DATE	DESCRIPTION	SYM

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

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DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
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NORFOLK, VA
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P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - LIGHTING CONTROL DIAGRAMS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098588
SHEET 357 OF 456

E-506

DRAWFORM REVISION: 25 AUGUST 2020

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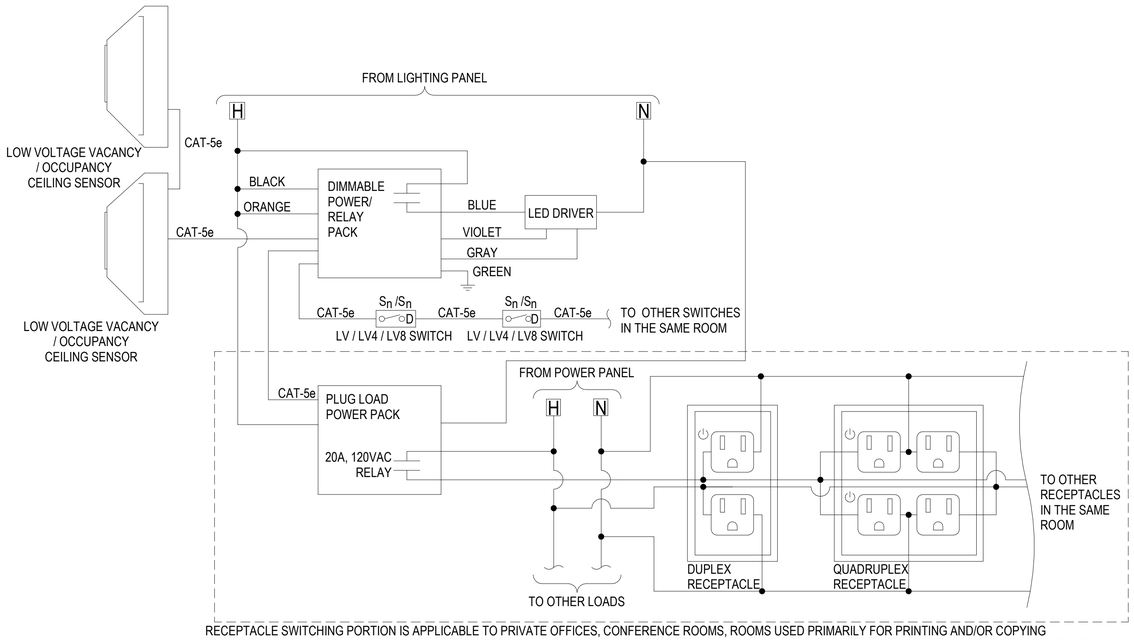

RECEPTACLE SWITCHING PORTION IS APPLICABLE TO PRIVATE OFFICES, CONFERENCE ROOMS, ROOMS USED PRIMARILY FOR PRINTING AND/OR COPYING FUNCTIONS, BREAK ROOMS, AND CLASSROOMS - THESE RECEPTACLES ARE INDICATED WITH "SW" DESIGNATION. ADDITIONAL POWER PACKS FOR EACH SWITCHED RECEPTACLE CIRCUIT IN SINGLE ROOM ARE REQUIRED PER POWER PLAN.

OPERATION SEQUENCE:
OCCUPANCY SENSOR:

1. LIGHT FIXTURES MUST TURN ON 50% POWER OUTPUT UPON SENSING OCCUPANCY. THE OTHER 50% MUST BE MANUAL ON.
2. THE GENERAL LIGHTING MUST HAVE AT LEAST ONE CONTROL STEP BETWEEN 30% - 70% (INCLUSIVE) OF FULL LIGHTING POWER IN ADDITION TO OFF.
3. WALL SWITCHES MUST BE PROGRAMMED TO ACHIEVE THE MULTILEVEL CONTROLS.
4. AFTER 15 MINUTE INTERVAL OF OCCUPANTS LEAVING THE SPACE, LIGHT FIXTURES MUST AUTOMATICALLY TURN OFF.
   TYPICAL APPLICATION: OPEN OFFICE AREAS AND AS INDICATED ON DRAWINGS.
5. RECEPTACLES WILL SWITCH TO 'ON' POSITION WHEN OCCUPANCY IS SENSED OR LIGHTING SWITCH IS MANUALLY TURNED ON.

OPERATION SEQUENCE:
VACANCY SENSOR:

1. LIGHT FIXTURES MUST BE MANUAL ON TO FULL 100% LIGHTING POWER.
2. THE GENERAL LIGHTING MUST HAVE AT LEAST ONE CONTROL STEP BETWEEN 30% - 70% (INCLUSIVE) OF FULL LIGHTING POWER IN ADDITION TO ALL OFF.
3. WALL SWITCH VACANCY SENSOR MUST BE PROGRAMMED TO ACHIEVE THE MULTILEVEL CONTROLS.
4. AFTER 15 MINUTE INTERVAL OF VACANCY SENSING, LIGHT FIXTURES MUST AUTOMATICALLY TURN OFF.
5. TYPICAL APPLICATION: PRIVATE OFFICES AND AS INDICATED ON DRAWINGS.
6. RECEPTACLES WILL SWITCH TO 'ON' POSITION WHEN OCCUPANCY IS SENSED OR LIGHTING SWITCH IS MANUALLY TURNED ON.

B1 LOW VOLTAGE RECEPTACLE CONTROL

SCALE: NTS

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SO | DRW UK | CHK YPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - LIGHTING CONTROL DIAGRAMS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098589
SHEET 358 OF 456
E-507
DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

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FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

SEQUENCE OF OPERATION MATRIX

ROOM #	SPACE NAME	OCCUPANCY/VACANCY SENSOR							TIME CLOCK			DAYLIGHT SENSOR			
		VACANCY MODE (MANUAL ON)	OCCUPANCY MODE (AUTO ON)	SENSOR TIMEOUT PERIOD (MINUTES)	INITIAL OCCUPIED LIGHTING LEVEL (%)	PREFERRED CONTROL STEP DIMMING (%)	UNOCCUPIED LIGHTING LEVEL (%)	OCCUPANCY SENSOR OVERRIDE - FIRE ALARM PANEL	SCHEDULED "ON" TIME	SCHEDULE "OFF" TIME	REDUCE FIXTURE LIGHTING LEVEL% AT MIDNIGHT OR CLOSING	YES/NO	TARGET LIGHTING LEVEL	MANUAL WALL CONTROL ONLY- (AS INDICATED ON DRAWINGS	RECEPTACLE CONTROL WITH POWER PACK(S)
100	ENTRY WS	X		15	100	30-70DIM	0					N	N/A		
101	BRIEF/DEBRIEF	X		15	100	30-70DIM	0	X				N	N/A		X
102	BRIEF/DEBRIEF	X		15	100	30-70DIM	0	X				N	N/A		X
103A	FIRE STORAGE	X		15	100		0					N	N/A		
104A	FIRE ROOM	X		15	100	30-70DIM	0	X				N	N/A		
104B	FIRE ROOM	X		15	100	30-70DIM	0	X				N	N/A		
104C	FIRE ROOM	X		15	100	30-70DIM	0	X				N	N/A		
105	LIBRARY/FILE STORAGE	X		15	100		0					N	N/A		
106	NCOIC/SUPPLY CLERK	X		15	100	30-70DIM	0	X				N	N/A		X
107	SIM OPERATOR	X		15	100	30-70DIM	0	X				N	N/A		X
108	ADMIN BREAK		X	15	50	30-70DIM	0	X				N	N/A		X
109	SIM ANALYST		X	15	50	30-70DIM	0	X				N	N/A		X
110	MOTHERS ROOM	X		15	100	30-70DIM	0					N	N/A		
110A	STORAGE	X			100		0					N	N/A		
111	OIC	X		15	100	30-70DIM	0					N	N/A		X
112	DEP. DIR.	X		15	100	30-70DIM	0					N	N/A		X
113	SITE MGR.	X		15	100	30-70DIM	0					N	N/A		X
114	DIR.	X		15	100	30-70DIM	0					N	N/A		X
115	COMM.				100		0					N	N/A	X	
116	ELEC.				100		0					N	N/A	X	
118	JAN.				100		0					N	N/A	X	
200A	SIMULATION CLASSROOM	X		15	100	30-70DIM	0	X				N	N/A		
200B	SIMULATION CLASSROOM	X		15	100	30-70DIM	0	X				N	N/A		
200C	SIMULATION CLASSROOM	X		15	100	30-70DIM	0	X				N	N/A		
201	AUDITORIUM READY ROOM	X		15	100	30-70DIM	0	X				N	N/A		
202	EXERCISE CONTROL	X		15	100	30-70DIM	0	X				N	N/A		
203	STORAGE	X		15	100		0					N	N/A		
204	JAN.				100		0					N	N/A	X	
205	PLOT/LAM	X		15	100	30-70DIM	0					N	N/A		X
206	BREAK ROOM		X	15	50	30-70DIM	0	X				N	N/A		X
207	EXERCISE CONTROL	X		15	100	30-70DIM	0	X				N	N/A		
208	COMM.				100		0					N	N/A	X	
209	BRIEF/DEBRIEF	X		15	100	30-70DIM	0	X				N	N/A		X
300A	SIMULATION CLASSROOM	X		15	100	30-70DIM	0	X				N	N/A		
300B	SIMULATION CLASSROOM	X		15	100	30-70DIM	0	X				N	N/A		
300C	SIMULATION CLASSROOM	X		15	100	30-70DIM	0	X				N	N/A		
300X	SIMULATION CLASSROOM	X		15	100	30-70DIM	0	X				N	N/A		
300Y	SIMULATION CLASSROOM	X		15	100	30-70DIM	0	X				N	N/A		
300Z	SIMULATION CLASSROOM	X		15	100	30-70DIM	0	X				N	N/A		
301A	SIMULATION CLASSROOM	X		15	100	30-70DIM	0	X				N	N/A		
301B	SIMULATION CLASSROOM	X		15	100	30-70DIM	0	X				N	N/A		
302	SERVER ADMIN.	X		15	100	30-70DIM	0	X				N	N/A		X
303A	SECURE WS		X	15	50	30-70DIM	0	X				N	N/A		
303B	SECURE VTC	X		15	100	30-70DIM	0	X				N	N/A		X
304A	SIM CONTROL (SERVER ROOM)		X	15	50	30-70DIM	0	X				N	N/A		
304B	SIM CONTROL (SECURE COMM)	X		15	100	30-70DIM	0	X				N	N/A		
305	STORAGE	X			100		0					N	N/A		
306	ELEC.				100		0					N	N/A	X	
400	MECH.				100		0					N	N/A	X	
401	MECH. (HOT)				100		0					N	N/A	X	
402	STORAGE/SHIPPING/RECEIVING		X	15	50	30-70DIM	0	X				N	N/A		
403	ELEC.				100		0					N	N/A	X	

SEQUENCE OF OPERATION MATRIX

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C010	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C011	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C012	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C013	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C014	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C015	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C016	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C017	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C018	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C020	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C021	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C022	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C023	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C030	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C031	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C032	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
C034	CORRIDOR		X	15	100	0-35DIM	50-0	X				N	N/A		
G010	MEN						0					N	N/A	X	
G011	WOMEN						0					N	N/A	X	
G012	UNISEX						0					N	N/A	X	
G020	UNISEX						0					N	N/A	X	
G021	MUD						0					N	N/A	X	
G022	W. SHWR.						0					N	N/A	X	
G023	M. SHWR.						0					N	N/A	X	
G024	WOMEN						0					N	N/A	X	
G025	MEN						0					N	N/A	X	
L010	LOBBY/VEST.		X	15	100	0-35DIM	50-0	X				N	N/A		

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NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
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SATISFACTORY TO DATE 12/16/21

DES tcc | DRW uxc | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA

JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - LIGHTING CONTROL MATRIX

SCALE: AS NOTED

EPROJECT NO.: 1590892

CONSTR. CONTR. NO.
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NAVFAC DRAWING NO.
14098590

SHEET 359 OF 456

E-508

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LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	MANUFACTURER / CATALOG #	LAMP TYPE	LAMP QTY	INPUT WATTAGE	VOLTAGE	REMARKS
A1	2' x 4' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT4 40LHE ADPT LP835 / OR APPROVED EQUAL	LED 82 CRI, 4000 LUMENS 3500K CCT	---	29	MVOLT	
A2	2' x 4' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT4 48LHE ADP LP835/ OR APPROVED EQUAL	LED 82 CRI, 4800 LUMENS 3500K CCT	---	34	MVOLT	
A3	2' x 4' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT4 60LHE ADP LP835/ OR APPROVED EQUAL	LED 82 CRI, 6000 LUMENS 3500K CCT	---	44	MVOLT	
B1	2' x 2' LED TROFFER	RECESSED	LITHONIA LIGHTING 2BLT2 20LHE ADP LP835/ OR APPROVED EQUAL	LED 82 CRI, 2000 LUMENS 3500K CCT	---	15	MVOLT	
C1	2' x 4' LED RECESSED FLAT PANEL	RECESSED	LITHONIA LIGHTING EPANL 2X4 3000LMHE 80CRI 35K / OR APPROVED EQUAL	LED 80 CRI, 3000 LUMENS 3500K CCT	---	23	MVOLT	
D1	6" RECESSED DOWNLIGHT	RECESSED	LITHONIA LIGHTING LDN6 35/15 LO6AR LD/ OR APPROVED EQUAL	LED 80 CRI, 1500 LUMENS 3500K CCT	---	18	MVOLT	
D2	6" RECESSED DOWNLIGHT	RECESSED	LITHONIA LIGHTING LDN6 35/05 LO6AR LD/ OR APPROVED EQUAL	LED 80 CRI, 500 LUMENS 3500K CCT	---	6	MVOLT	
D3	6" RECESSED DOWNLIGHT	RECESSED	LITHONIA LIGHTING LDN6 35/30 LO6AR LD/ OR APPROVED EQUAL	LED 80 CRI, 3000 LUMENS 3500K CCT	---	35	MVOLT	
D4	6" RECESSED DOWNLIGHT WALL WASH	RECESSED	LITHONIA LIGHTING/ LDN6 35/50 LW6WR/ OR APPROVED EQUAL	LED 80 CRI, 5000 LUMENS 3500K CCT	---	1	MVOLT	
D5	6" RECESSED DOWNLIGHT - WET LOCATION LISTED FOR UNDER CANOPY	RECESSED	LITHONIA LIGHTING LDN6 40/10 LO6AR LD/ OR APPROVED EQUAL	LED 80 CRI, 1000 LUMENS 4000K CCT	---	10	MVOLT	
D5E	6" RECESSED DOWNLIGHT - WET LOCATION LISTED FOR UNDER CANOPY W/ 90 MINUTE BATTERY BACKUP	RECESSED	LITHONIA LIGHTING LDN6 40/10 LO6AR LD/ OR APPROVED EQUAL	LED 80 CRI, 1000 LUMENS 4000K CCT	---	10	MVOLT	
E1	4' FLUSHED LED STRIP LIGHT	RECESSED	3G LIGHTING 3G-4RLI L500 S80 35K UNV FL 4FT / OR APPROVED EQUAL	LED 80CRI, 500 LUMENS PER FT 3500K CCT	---	16	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	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	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	LOW PROFILE SNAP TOGETHER QUICK MOUNT DESIGN. FLAME RATED, DIE-CAST ALUMINUM 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 LQC R ELN SERIES OR APPROVED EQUAL	LED	---	5	277	
S1	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	MVOLT	MOUNT FIXTURES AT 10'-0" AFF. UNLESS OTHERWISE NOTED.
SL0	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.
SL1	SITE LIGHTING TYPE VS DISTRIBUTION	POLE BACK TO BACK	LITHONIA LIGHTING RSX1-LED-P1-40K-R5S-MVOLT-RPA-PER7-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 7479 LUMENS EACH 4000K CCT	---	51 EACH	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
SL2	SITE LIGHTING TYPE VS DISTRIBUTION	POLE BACK TO BACK	LITHONIA LIGHTING RSX1-LED-P2-40K-R5S-MVOLT-RPA-PER7-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 10374 LUMENS EACH 4000K CCT	---	72 EACH	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
SL3	SITE LIGHTING TYPE II DISTRIBUTION	POLE	LITHONIA LIGHTING RSX2-LED-P1-40K-R2-MVOLT-RPA-PER7-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 11031 LUMENS 4000K CCT	---	73	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
SL4	SITE LIGHTING TYPE IV DISTRIBUTION	POLE	LITHONIA LIGHTING RSX2-LED-P2-40K-R4-MVOLT-RPA-PER7-DMG-PIRHN OR APPROVED EQUAL	LED 80 CRI, 17427 LUMENS 4000K CCT	---	111	277	MOUNT FIXTURE 39' ABOVE FINISHED GRADE.
SL5	4' LED LINEAR WIDE DISTRIBUTION	SURFACE	HOLOPHANE LIGHTING EMS L48 LPAFL WD MVOLT GZ10 40K 80CRI BAA OR APPROVED EQUAL	LED 80 CRI, 8000 LUMENS 4000K CCT	---	50.5	MVOLT	MOUNT FIXTURE TO CANOPY STRUCTURAL SUPPORTS APPROXIMATELY 10'-0" ABOVE FINISHED SLAB.
SL6	8' LED LINEAR WIDE DISTIBUTION	SURFACE	HOLOPHANE LIGHTING EMS L96 LPAFL WD MVOLT GZ10 40K 80CRI BAA OR APPROVED EQUAL	LED 80 CRI, 9000 LUMENS 4000K CCT	---	53.4	MVOLT	MOUNT FIXTURE TO CANOPY STRUCTURAL SUPPORTS APPROXIMATELY 10'-0" ABOVE FINISHED SLAB.
W1	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	MOUNT FIXTURES AT 10'-0" AFF. UNLESS OTHERWISE NOTED.
W1E	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	MOUNT FIXTURES AT 10'-0" AFF. UNLESS OTHERWISE NOTED.

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NAVFAC

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PM / DM	TOWLER / ROOT	
BRANCH HEAD	SEK	
DESIGN DIRECTOR	PAUL K. SHREM	
FIRE PROTECTION	DPS	

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
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P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - LIGHTING FIXTURE SCHEDULE

SCALE: AS NOTED
EPROJECT NO.: 1590892
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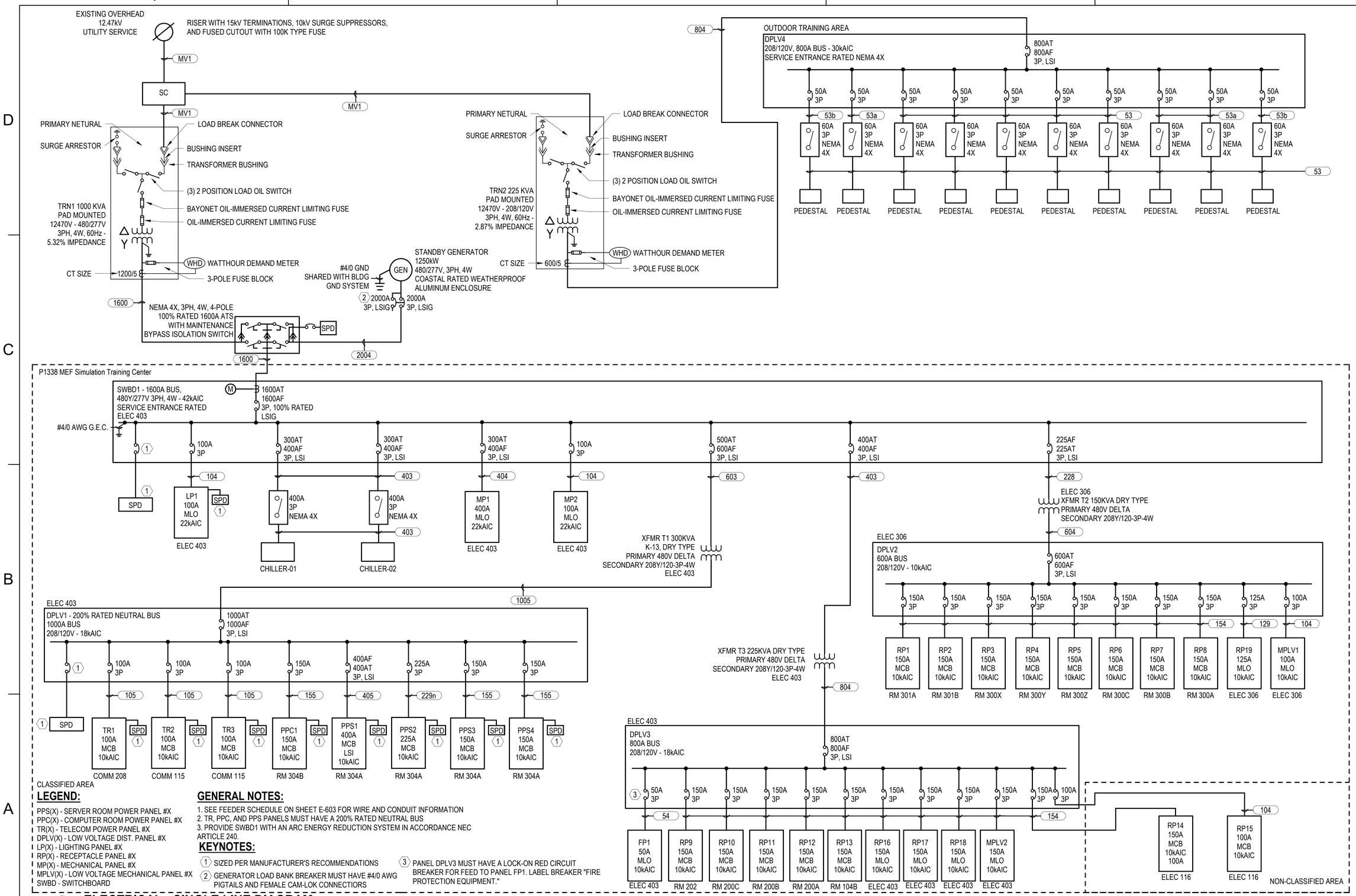

LEGEND:

PPS(X) - SERVER ROOM POWER PANEL #X
PPC(X) - COMPUTER ROOM POWER PANEL #X
TR(X) - TELECOM POWER PANEL #X
DPLV(X) - LOW VOLTAGE DIST. PANEL #X
LP(X) - LIGHTING PANEL #X
RP(X) - RECEPTACLE PANEL #X
MP(X) - MECHANICAL PANEL #X
MPLV(X) - LOW VOLTAGE MECHANICAL PANEL #X
SWBD - SWITCHBOARD

GENERAL NOTES:

1. SEE FEEDER SCHEDULE ON SHEET E-603 FOR WIRE AND CONDUIT INFORMATION
2. TR, PPC, AND PPS PANELS MUST HAVE A 200% RATED NEUTRAL BUS
3. PROVIDE SWBD1 WITH AN ARC ENERGY REDUCTION SYSTEM IN ACCORDANCE NEC ARTICLE 240.

KEYNOTES:

1. SIZED PER MANUFACTURER'S RECOMMENDATIONS
2. GENERATOR LOAD BANK BREAKER MUST HAVE #4/0 AWG PIGTAILS AND FEMALE CAM-LOK CONNECTIORS
3. PANEL DPLV3 MUST HAVE A LOCK-ON RED CIRCUIT BREAKER FOR FEED TO PANEL FP1. LABEL BREAKER "FIRE PROTECTION EQUIPMENT."

A1 ELECTRICAL - SINGLE LINE DIAGRAM

SCALE: NTS

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS — SENOL DURUR ELECTRICAL No. 47946 — REGISTERED PROFESSIONAL ENGINEER

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SHEET 361 OF 456

E-602

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FILE NAME: BIM 360/I:\FF PACKAGE 3\P1338 MEF SIM CTR-1590892-E.rvt

FEEDER SCHEDULE

53	(3) #6 AWG AND (1) #10 AWG GND IN 3/4" CONDUIT
53a	(3) #4 AWG AND (1) #8 AWG GND IN 1" CONDUIT
53b	(3) #3 AWG AND (1) #6 AWG GND IN 1-1/4" CONDUIT
54	(4) #6 AWG AND (1) #10 AWG GND IN 1" 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) #1/0 AWG AND (1) #6AWG GND IN 1-1/2" CONDUIT
154	(4) #1/0 AWG AND (1) #6 AWG GND IN 2" CONDUIT
155	(5) #1/0 AWG AND (1) #6 AWG GND IN 2" CONDUIT
228	(3) #4/0 AWG AND (1) #4 AWG GND IN 2-1/2" CONDUIT
229n	(5) #4/0 AWG AND (1) #4 AWG GND IN 3" CONDUIT
403	(3) 600 kcmil AND (1) #3 AWG GND IN 3-1/2" CONDUIT
404	(4) 600 kcmil AND (1) #3 AWG GND IN 4" CONDUIT
405	(5) 600 kcmil AND (1) #3 AWG GND IN 4" 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	THREE 4" CONDUITS, EACH WITH (5) 600 kcmil AND (1) #1/0 AWG GND
1600	FOUR 4" CONDUITS, EACH WITH (4) 600 kcmil + (1) 4" CONDUIT SPARE
2004	FIVE 4" CONDUITS, EACH WITH (4) 600 kcmil AND (1) #4/0 AWG GND + (1) 4" CONDUIT SPARE
MV1	TWO 5" CONDUITS, ONE WITH (3) #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.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY
– A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW UK | CHK YPS

PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
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. 14098593
SHEET 362 OF 456

E-603

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:36 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

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 SWBD1

FED FROM:
LOCATION: ELEC 403
MOUNT: FLOOR

1600 A MAIN CIRCUIT BREAKER
3PH 4WIRE 480Y/277V
42K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	SURGE PROTECTIVE DEVICE	--	30	3	0.00	55.42					3	300	*	MP1	2
3	--	--	--	--			0.00	55.42			--	--	--	--	4
5	--	--	--	--					0.00	55.42	--	--	--	--	6
7	LP1	1	100	3	8.33	80.52					3	225	4	T2	8
9	--	--	--	--			8.86	81.06			--	--	--	--	10
11	--	--	--	--					8.55	80.81	--	--	--	--	12
13	MP2	1	100	3	16.73	55.65					3	300	*	CHILLER CH-01	14
15	--	--	--	--			16.73	55.65			--	--	--	--	16
17	--	--	--	--					16.73	55.65	--	--	--	--	18
19	T1	*	500	3	73.34	0.00					3	225	--	SPARE	20
21	--	--	--	--			74.36	0.00			--	--	--	--	22
23	--	--	--	--					74.13	0.00	--	--	--	--	24
25	T3	*	400	3	98.22	0.00					3	400	--	SPARE	26
27	--	--	--	--			94.32	0.00			--	--	--	--	28
29	--	--	--	--					96.10	0.00	--	--	--	--	30
31	CHILLER CH-02	*	300	3	55.65	0.00					--	--	--	PROVISIONED SPACE	32
33	--	--	--	--			55.65	0.00			--	--	--	PROVISIONED SPACE	34
35	--	--	--	--					55.65	0.00	--	--	--	PROVISIONED SPACE	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42

NEC ARTICLE 220		A	B	C	
	TOTAL	443.8	442.1	443.0	KVA
		1602.9	1595.9	1600.0	AMPS
	CONNECTED LOAD	1328.9	KVA	1598.5	AMPS
	DEMAND LOAD	915.4	KVA	1101.1	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	240328 VA	100.00%	240328 VA		
Power	3640 VA	100.00%	3640 VA	Total Conn. Load:	1328944 VA
RECEPT	464580 VA	51.08%	237290 VA	Total Est. Demand:	915428 VA
LTG	25742 VA	100.00%	25742 VA	Total Conn.:	1598 A
Water Heater	720 VA	100.00%	720 VA	Total Est. Demand:	1101 A
UFC-MOTOR-25%	20322 VA	25.00%	5081 VA		
UFC-MOTOR-30%	84764 VA	30.00%	25429 VA		
UFC-HVAC-70%	144801 VA	70.00%	101361 VA		
UFC-HEATER-80%	7162 VA	80.00%	5730 VA		
UFC-CHILLER-80%	333884 VA	80.00%	267107 VA		
FIRE PROTECTION - 100%	3000 VA	100.00%	3000 VA		

PANEL DPLV1

FED FROM: T1
LOCATION: ELEC 403
MOUNT: SURFACE

1000 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
18K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	SURGE PROTECTIVE DEVICE	--	30	3	0.00	3.00					3	150	1/0	PPS4	2
3	--	--	--	--			0.00	3.00			--	--	--	--	4
5	--	--	--	--					0.00	2.00	--	--	--	--	6
7	TR2	1	100	3	2.72	3.40					3	100	1	TR1	8
9	--	--	--	--			2.86	3.56			--	--	--	--	10
11	--	--	--	--					3.42	4.44	--	--	--	--	12
13	PPC1	1/0	150	3	6.15	10.00					3	150	1/0	PPS3	14
15	--	--	--	--			6.08	10.00			--	--	--	--	16
17	--	--	--	--					5.33	9.08	--	--	--	--	18
19	PPS2	4/0	225	3	17.90	28.00					3	400	*	PPS1	20
21	--	--	--	--			18.08	27.00			--	--	--	--	22
23	--	--	--	--					18.00	29.00	--	--	--	--	24
25	TR3	1	100	3	2.18	0.00					3	100	--	SPARE	26
27	--	--	--	--			3.78	0.00			--	--	--	--	28
29	--	--	--	--					2.86	0.00	--	--	--	--	30
31	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	32
33	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	34
35	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42

NEC ARTICLE 220		A	B	C	
	TOTAL	73.3	74.4	74.1	KVA
		611.2	620.6	618.7	AMPS
	CONNECTED LOAD	221.8	KVA	615.7	AMPS
	DEMAND LOAD	218.5	KVA	606.6	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	203460 VA	100.00%	203460 VA		
RECEPT	7380 VA	100.00%	7380 VA	Total Conn. Load:	221822 VA
UFC-HVAC-70%	10982 VA	70.00%	7688 VA	Total Est. Demand:	218528 VA
				Total Conn.:	616 A
				Total Est. Demand:	607 A

PANEL DPLV2

FED FROM: T2
LOCATION: ELEC 306
MOUNT: SURFACE

600 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	MPLV1	1	100	3	3.62	8.28					3	150	1/0	RP1	2
3	--	--	--	--			3.44	8.64			--	--	--	--	4
5	--	--	--	--					3.55	8.64	--	--	--	--	6
7	RP2	1/0	150	3	8.64	8.64					3	150	1/0	RP3	8
9	--	--	--	--			8.64	8.64			--	--	--	--	10
11	--	--	--	--					8.64	8.64	--	--	--	--	12
13	RP4	1/0	150	3	8.64	8.64					3	150	1/0	RP5	14
15	--	--	--	--			8.64	8.64			--	--	--	--	16
17	--	--	--	--					8.64	8.64	--	--	--	--	18
19	RP6	1/0	150	3	8.64	8.64					3	150	1/0	RP7	20
21	--	--	--	--			8.64	8.64			--	--	--	--	22
23	--	--	--	--					8.64	8.64	--	--	--	--	24
25	RP8	1/0	150	3	8.64	8.14					3	125	1/0	RP19	26
27	--	--	--	--			8.64	8.50			--	--	--	--	28
29	--	--	--	--					8.64	8.14	--	--	--	--	30
31	SPARE	--	150	3	0.00	0.00					3	150	--	SPARE	32
33	--	--	--	--			0.00	0.00			--	--	--	--	34
35	--	--	--	--					0.00	0.00	--	--	--	--	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42

NEC ARTICLE 220		A	B	C	
	TOTAL	80.5	81.1	80.8	KVA
		671.0	675.9	673.8	AMPS
	CONNECTED LOAD	242.4	KVA	672.8	AMPS
	DEMAND LOAD	126.6	KVA	351.3	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	2880 VA	100.00%	2880 VA		
RECEPT	231780 VA	52.16%	120890 VA	Total Conn. Load:	242384 VA
UFC-MOTOR-25%	6176 VA	25.00%	1544 VA	Total Est. Demand:	126552 VA
UFC-HEATER-80%	1548 VA	80.00%	1238 VA	Total Conn.:	673 A
				Total Est. Demand:	351 A

PANEL DPLV3

FED FROM: T3
LOCATION: ELEC 403
MOUNT: SURFACE

800 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
18K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FP1	6	50	3	1.02	7.20					3	150	1/0	RP13	2
3	--	--	--	--			1.14	6.48			--	--	--	--	4
5	--	--	--	--					1.20	5.76	--	--	--	--	6
7	MPLV2	1/0	150	3	11.77	9.11					3	150	1/0	RP18	8
9	--	--	--	--			10.05	8.67			--	--	--	--	10
11	--	--	--	--					12.34	8.39	--	--	--	--	12
13	RP17	1/0	150	3	8.82	9.84					3	150	1/0	RP16	14
15	--	--	--	--			8.96	9.95			--	--	--	--	16
17	--	--	--	--					8.71	9.18	--	--	--	--	18
19	RP14	1/0	150	3	9.67	8.64					3	150	1/0	RP10	20
21	--	--	--	--			9.48	8.64			--	--	--	--	22
23	--	--	--	--					9.66	8.64	--	--	--	--	24
25	RP11	1/0	150	3	8.64	8.64					3	150	1/0	RP12	26
27	--	--	--	--			8.64	8.64			--	--	--	--	28
29	--	--	--	--					8.64	8.64	--	--	--	--	30
31	RP9	1/0	150	3	8.64	6.24					3	100	1	RP15	32
33	--	--	--	--			8.64	5.04			--	--	--	--	34
35	--	--	--	--					8.64	6.30	--	--	--	--	36
37	SPARE	--	150	3	0.00	0.00					3	100	--	SPARE	38
39	--	--	--	--			0.00	0.00			--	--	--	--	40
41	--	--	--	--					0.00	0.00	--	--	--	--	42

NEC ARTICLE 220		A	B	C	
	TOTAL	98.2	94.3	96.1	KVA
		820.7	786.0	803.1	AMPS
	CONNECTED LOAD	288.6	KVA	801.2	AMPS
	DEMAND LOAD	166.9	KVA	463.4	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	33988 VA	100.00%	33988 VA		
Power	3640 VA	100.00%	3640 VA	Total Conn. Load:	288639 VA
RECEPT	225420 VA	52.22%	117710 VA	Total Est. Demand:	166935 VA
Water Heater	720 VA	100.00%	720 VA	Total Conn.:	801 A
UFC-MOTOR-25%	11320 VA	25.00%	2830 VA	Total Est. Demand:	463 A
UFC-MOTOR-30%	6282 VA	30.00%	1885 VA		
UFC-HVAC-70%	2529 VA	70.00%	1770 VA		
UFC-HEATER-80%	1740 VA	80.00%	1392 VA		
FIRE PROTECTION - 100%	3000 VA	100.00%	3000 VA		

SYM	DESCRIPTION	DATE	APVR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY
~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SO | DRW UK | CHK YPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098594
SHEET 363 OF 456

E-604

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:38 PM

FILE NAME: BIM 360://HF PACKAGE 3P1338 MEF SIM CTR-1590892-E.rvt

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 DPLV4

FED FROM:
LOCATION:
MOUNT: FLOOR

800 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
30K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	PEDESTAL 1	3	50	3	4.80	4.80					3	50	4	PEDESTAL 2	2
3	--	--	--	--			4.80	4.80			--	--	--	--	4
5	--	--	--	--					4.80	4.80	--	--	--	--	6
7	PEDESTAL 3	6	50	3	4.80	4.80					3	50	6	PEDESTAL 4	8
9	--	--	--	--			4.80	4.80			--	--	--	--	10
11	--	--	--	--					4.80	4.80	--	--	--	--	12
13	PEDESTAL 5	6	50	3	4.80	4.80					3	50	6	PEDESTAL 6	14
15	--	--	--	--			4.80	4.80			--	--	--	--	16
17	--	--	--	--					4.80	4.80	--	--	--	--	18
19	PEDESTAL 7	6	50	3	4.80	4.80					3	50	4	PEDESTAL 8	20
21	--	--	--	--			4.80	4.80			--	--	--	--	22
23	--	--	--	--					4.80	4.80	--	--	--	--	24
25	PEDESTAL 9	4	50	3	4.80	4.80					3	50	3	PEDESTAL 10	26
27	--	--	--	--			4.80	4.80			--	--	--	--	28
29	--	--	--	--					4.80	4.80	--	--	--	--	30
31	SPARE	--	50	3	0.00	0.00					3	50	--	SPARE	32
33	--	--	--	--			0.00	0.00			--	--	--	--	34
35	--	--	--	--					0.00	0.00	--	--	--	--	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42
				TOTAL	48.0		48.0		48.0		KVA				
					200.1		200.1		200.1		AMPS				
				CONNECTED LOAD	144.1		KVA		400.0		AMPS				
NEC ARTICLE 220				DEMAND LOAD	144.1		KVA		400.0		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	144107 VA	100.00%	144107 VA		
				Total Conn. Load:	144107 VA
				Total Est. Demand:	144107 VA
				Total Conn.:	400 A
				Total Est. Demand:	400 A

PANEL LP1

FED FROM: SWBD1
LOCATION: ELEC 403
MOUNT: SURFACE

100 A MAIN LUG ONLY
3PH 4WIRE 480Y/277V
22K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	SURGE PROTECTIVE DEVICE	--	30	3	0.00	0.13					1	20	12	LTG - EXTERIOR CANOPIES	2
3	--	--	--	--			0.00	0.35			1	20	10	SITE LIGHTING (CKT D)	4
5	--	--	--	--					0.00	0.55	1	20	10	SITE LIGHTING (CKT C)	6
7	SITE LIGHTING (CKT E)	6	20	1	0.55	1.04					1	20	4	SITE LIGHTING (CKT F)	8
9	LTG COR C030	12	20	1			0.63	2.26			1	20	12	LTG RM 304B, 303B, 303A, 302, 209, 205, 206, 204, G020,...	10
11	SITE LIGHTING (CKT B)	10	20	1					1.10	1.50	1	20	6	SITE LIGHTING (CKT A)	12
13	LTG RM 300B, 300A, 300Y, 300X	12	20	1	2.08	1.21					1	20	12	LTG RM C020, C022, C021, C023	14
15	LTG RM 301A, 301B, 304A	12	20	1			2.64	2.82			1	20	12	LTG RM 402, 401, 400, 118	16
17	LTG RM 106, 105, 108, G011, G012, G010, 110	12	20	1					1.93	3.40	1	20	12	LTG RM 202, 201, 203, 200B, 200A, 200C	18
19	LTG RM 102, 101, L010, 100	12	20	1	0.97	2.25					1	20	12	LTG RM 300C, 300Z, C032, C034, C031, C030, 306	20
21	SITE LIGHTING (CKT G)	10	20	1			0.12	0.06			1	20	12	LTG BUILDING MOUNTED	22
23	SPARE	--	20	1					0.00	0.07	1	20	12	LTG BUILDING MOUNTED	24
25	SPARE	--	20	1	0.00	0.10					1	20	12	LCP RM 403	26
27	SPARE	--	20	1			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	SPARE	--	20	1					0.00	0.00	--	--	--	PROVISIONED SPACE	30
				TOTAL	8.3		8.9		8.6		KVA				
					30.1		32.1		31.0		AMPS				
				CONNECTED LOAD	25.7		KVA		31.0		AMPS				
NEC ARTICLE 220				DEMAND LOAD	25.7		KVA		31.0		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
LTG	25742 VA	100.00%	25742 VA		
				Total Conn. Load:	25742 VA
				Total Est. Demand:	25742 VA
				Total Conn.:	31 A
				Total Est. Demand:	31 A

PANEL MP1

FED FROM: SWBD1
LOCATION: ELEC 403
MOUNT: SURFACE

400 A MAIN LUG ONLY
3PH 4WIRE 480Y/277V
22K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	AHU-01 (SUPPLY FAN) RM MECHANICAL 400	10	30	3	3.88	0.94					3	15	12	AHU-01 (EXHASUT FAN) RM MECHANICAL 400	2
3	--	--	--	--			3.88	0.94			--	--	--	--	4
5	--	--	--	--					3.88	0.94	--	--	--	--	6
7	AHU-02 (SUPPLY FAN) RM MECHANICAL 400	2/0	175	3	22.17	2.27					3	15	12	AHU-02 (EXHASUT FAN) RM MECHANICAL 400	8
9	--	--	--	--			22.17	2.27			--	--	--	--	10
11	--	--	--	--					22.17	2.27	--	--	--	--	12
13	BP-1 RM MECH (HOT) 401	12	20	3	0.44	0.44					3	20	12	BP-2 RM MECH (HOT) 401	14
15	--	--	--	--			0.44	0.44			--	--	--	--	16
17	--	--	--	--					0.44	0.44	--	--	--	--	18
19	BP-3 RM MECH (HOT) 401	12	20	3	0.44	11.09					3	50	6	P-01 RM MECHANICAL 400	20
21	--	--	--	--			0.44	11.09			--	--	--	--	22
23	--	--	--	--					0.44	11.09	--	--	--	--	24
25	P-02 MECHANICAL 400	6	50	3	11.09	1.33					3	20	12	P-03 RM MECH (HOT) 401	26
27	--	--	--	--			11.09	1.33			--	--	--	--	28
29	--	--	--	--					11.09	1.33	--	--	--	--	30
31	SPARE	--	20	3	0.00	1.33					3	20	12	P-04 RM MECH (HOT) 401	32
33	--	--	--	--			0.00	1.33			--	--	--	--	34
35	--	--	--	--					0.00	1.33	--	--	--	--	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					3	20	--	SPARE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	--	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	--	42
				TOTAL	55.4		55.4		55.4		KVA				
					200.1		200.1		200.1		AMPS				
				CONNECTED LOAD	166.3		KVA		200.0		AMPS				
NEC ARTICLE 220				DEMAND LOAD	85.0		KVA		102.2		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
UFC-MOTOR-30%	78482 VA	30.00%	23545 VA		
UFC-HVAC-70%	87792 VA	70.00%	61454 VA		
				Total Conn. Load:	166274 VA
				Total Est. Demand:	84999 VA
				Total Conn.:	200 A
				Total Est. Demand:	102 A

PROVIDE SHUNT TRIP CIRCUIT BREAKER ON CIRCUITS FEEDING CRAC UNITS.

PANEL MP2

FED FROM: SWBD1
LOCATION: ELEC 403
MOUNT: SURFACE

100 A MAIN LUG ONLY
3PH 4WIRE 480Y/277V
22K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	EUH-01 RM ELEC 402	12	20	3	1.29	4.83					3	25	10	CRAC-01 RM SIM CONTROL (SERVER ROOM) 304A	2
3	--	--	--	--			1.29	4.83			--	--	--	--	4
5	--	--	--	--					1.29	4.83	--	--	--	--	6
7	CRAC-02 RM SIM CONTROL (SERVER ROOM) 304A	10	25	3	4.83	4.83					3	25	10	CRAC-03 RM SIM CONTROL (SERVER ROOM) 304A	8
9	--	--	--	--			4.83	4.83			--	--	--	--	10
11	--	--	--	--					4.83	4.83	--	--	--	--	12
13	EF-02 RM ELEC 403	12	20	3	0.94	0.00					3	25	--	SPARE	14
15	--	--	--	--			0.94	0.00			--	--	--	--	16
17	--	--	--	--					0.94	0.00	--	--	--	--	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
31	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	32
33	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	34
35	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42
				TOTAL	16.7		16.7		16.7		KVA				
					60.4		60.4		60.4		AMPS				
				CONNECTED LOAD	50.2		KVA		60.4		AMPS				
NEC ARTICLE 220				DEMAND LOAD	34.3		KVA		41.2		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
UFC-MOTOR-25%	2826 VA	25.00%	707 VA		
UFC-HVAC-70%	43498 VA	70.00%	30449 VA	Total Conn. Load:	50198 VA
UFC-HEATER-80%	3874 VA	80.00%	3099 VA	Total Est. Demand:	34255 VA
				Total Conn.:	60 A
				Total Est. Demand:	41 A

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SD | DRW LvK | CHK VPS
PM / DM: TOWLER / ROOT
BRANCH HEAD: SEK
DESIGN DIRECTOR: PAUL K. SHREM
FIRE PROTECTION: DPS

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NORFOLK, VA
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098595
SHEET 364 OF 456
E-605
DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:41 PM
FILE NAME: BIM 360://MF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

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 MPLV1

FED FROM: DPLV2
LOCATION: ELEC 306
MOUNT: SURFACE

100 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

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	0.30					1	20	12	LOUVER LOW VOLTAGE POWER ELEC 306	2
3	J-BOX VAV 24V POWER RM EXERCISE CONTROL 202	12	20	1			1.00	1.44			1	20	15	RIGHT TURNSTILE GATE POWER SUPPLY	4
5	J-BOX VAV 24V POWER RM LOBBY/VEST L010	12	20	1					1.00	1.55	1	20	12	EWH-02 RM ELEC 306	6
7	EF-04 RM ELEC 306	12	20	1	0.70	1.44					1	15	12	LEFT TURNSTILE GATE POWER SUPPLY	8
9	J-BOX VAV 24V POWER RM SIM. CLASSROOM 300Y	12	20	1			1.00	0.00			--	--	--	PROVISIONED SPACE	10
11	J-BOX VAV 24V POWER RM SIM. CLASSROOM 301A	12	20	1					1.00	0.00	--	--	--	PROVISIONED SPACE	12
13	J-BOX VAV 24V POWER RM SIM. CLASSROOM 200C	12	20	1	1.00	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
31	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	32
33	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	34
35	SPARE	--	20	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					0.00	0.00	1	20	--	SPARE	42
				TOTAL	3.6		3.4		3.5		KVA				
					30.3		28.7		29.7		AMPS				
				CONNECTED LOAD	10.6		KVA		29.4		AMPS				
NEC ARTICLE 220				DEMAND LOAD	5.7		KVA		15.7		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	2880 VA	100.00%	2880 VA		
UFC-MOTOR-25%	6176 VA	25.00%	1544 VA	Total Conn. Load:	10604 VA
UFC-HEATER-80%	1548 VA	80.00%	1238 VA	Total Est. Demand:	5662 VA
				Total Conn.:	29 A
				Total Est. Demand:	16 A

PANEL MPLV2

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

150 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	UH-01 RM MECHANICAL 400	12	20	1	0.10	0.50					1	20	12	J-BOX LOUVER 24V POWER MECH (HOT) 401	2
3	UH-02 RM MECH (HOT) 401	12	20	1			0.10	0.77			1	20	12	DEHUMIDIFIER DEH-01 RM MECHANICAL 400	4
5	RP-1 RM MECH (HOT) 401	12	20	1					0.37	0.70	1	20	12	EF-3 RM ELEC 116	6
7	J-BOX VAV 24V POWER RM 109	12	20	1	1.00	1.00					1	20	12	J-BOX VAV 24V POWER RM FIRE ROOM 104B	8
9	J-BOX LOUVER 24V POWER ELEC 116/403/	12	20	1			0.90	1.18			1	20	12	EF-1 RM MEN G025	10
11	EWH-01 RM ELEC 116	12	20	1					1.55	4.26	2	60	4	GENERATOR JACKET WATER HEATER WITH PUMP	12
13	GWH-1 MECH (HOT) 401	12	20	1	0.36	4.26					--	--	--	--	14
15	GENERATOR CHARGER	12	20	1			1.92	0.59			1	15	12	BOILER B-03 RM MECH (HOT) 401	16
17	J-BOX FOR DDC CONTROLLER MECHANICAL 400	12	20	1					0.36	0.86	1	20	12	LOUVER L-01B RM MECHANICAL 400	18
19	BOILER B-01 RM MECH (HOT) 401	12	15	1	0.59	0.59					1	15	12	BOILER B-02 RM MECH (HOT) 401	20
21	GWH-2 MECH (HOT) 401	12	20	1			0.36	1.18			1	20	12	SF-1 RM MECHANICAL 400	22
23	LOUVERS L-01A RM MECHANICAL 400	12	20	1					0.86	1.18	1	20	12	LIFT GATE CIRCUIT 2	24
25	LIFT GATE CIRCUIT 1	12	20	1	1.18	0.55					3	20	12	OH ROLL UP DOOR RM STORAGE/SHIP/RECEIVING 402	26
27	LOUVER L-02 RM MECHANICAL 400	12	20	1			0.86	0.55			--	--	--	--	28
29	OH ROLL UP DOOR RM MECHANICAL 400	12	20	3					0.55	0.55	--	--	--	--	30
31	--	--	--	--	0.55	1.09					3	50	6	HEAT TRACE CONTROL PANEL	32
33	--	--	--	--			0.55	1.09			--	--	--	--	34
35	SPARE	--	15	1					0.00	1.09	--	--	--	--	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	11.8		10.0		12.3		KVA				
					100.3		83.7		105.1		AMPS				
				CONNECTED LOAD	34.2		KVA		94.8		AMPS				
NEC ARTICLE 220				DEMAND LOAD	22.1		KVA		61.2		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	10448 VA	100.00%	10448 VA		
Power	3640 VA	100.00%	3640 VA	Total Conn. Load:	34159 VA
Water Heater	720 VA	100.00%	720 VA	Total Est. Demand:	22055 VA
UFC-MOTOR-25%	8800 VA	25.00%	2200 VA	Total Conn.:	95 A
UFC-MOTOR-30%	6282 VA	30.00%	1885 VA	Total Est. Demand:	61 A
UFC-HVAC-70%	2529 VA	70.00%	1770 VA		
UFC-HEATER-80%	1740 VA	80.00%	1392 VA		

PANEL FP1

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

50 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	AMPLIFIER RM 402	12	20	1	0.60	0.03					2	20	12	EPO BOX SIM CONTROL SECURE COMM 304B	2
3	FACP RM 402	12	20	1			0.96	0.03			--	--	--	--	4
5	POWER SUPPLY RM 402	12	20	1					0.60	0.60	1	20	12	TRANSMITTER PANEL RM 402	6
7	ASPIRATING SMOKE DETECTION DETECTOR RM 304A	12	20	1	0.24	0.15					2	20	12	EPO BOXES SIM CONTROL (SERVER ROOM) 304A	8
9	SPARE	--	20	2			0.00	0.15			--	--	--	--	10
11	--	--	--	--					0.00	0.00	1	20	--	SPARE	12
13	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	14
15	SPARE	--	20	1			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	1.0		1.1		1.2		KVA				
					8.5		9.6		10.2		AMPS				
				CONNECTED LOAD	3.4		KVA		9.3		AMPS				
NEC ARTICLE 220				DEMAND LOAD	3.4		KVA		9.3		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	350 VA	100.00%	350 VA		
FIRE PROTECTION - 100%	3000 VA	100.00%	3000 VA	Total Conn. Load:	3350 VA
				Total Est. Demand:	3350 VA
				Total Conn.:	9 A
				Total Est. Demand:	9 A

SYM	DESCRIPTION	DATE	APVR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY CONCURRED BY MCB-CL AMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SO | DRW UK | CHK YPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098596
SHEET 365 OF 456

E-606

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:43 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

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 RP1

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 301A
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 301A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301A	2
3	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	4
5	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	6
7	FLOOR BOXES RM 301A	10	20	1	0.72	0.36					1	20	10	FLOOR BOXES RM 301A	8
9	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	10
11	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	12
13	FLOOR BOXES RM 301A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301A	14
15	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	16
17	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	18
19	FLOOR BOXES RM 301A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301A	20
21	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	22
23	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	24
25	FLOOR BOXES RM 301A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301A	26
27	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	28
29	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	30
31	FLOOR BOXES RM 301A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301A	32
33	FLOOR BOXES RM 301A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301A	34
35	FLOOR BOXES RM 301A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301A	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	8.3		8.6		8.6		KVA				
					69.0		72.5		72.5		AMPS				
				CONNECTED LOAD	25.6		KVA		70.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	17.8		KVA		49.4		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25560 VA	69.56%	17780 VA		
				Total Conn. Load:	25560 VA
				Total Est. Demand:	17780 VA
				Total Conn.:	71 A
				Total Est. Demand:	49 A

PANEL RP2

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 301B
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	2
3	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	4
5	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	6
7	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	8
9	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	10
11	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	12
13	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	14
15	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	16
17	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	18
19	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	20
21	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	22
23	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	24
25	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	26
27	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	28
29	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	30
31	FLOOR BOXES RM 301B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 301B	32
33	FLOOR BOXES RM 301B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 301B	34
35	FLOOR BOXES RM 301B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 301B	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		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP3

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300X
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	2
3	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	4
5	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	6
7	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	8
9	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	10
11	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	12
13	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	14
15	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	16
17	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	18
19	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	20
21	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	22
23	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	24
25	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	26
27	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	28
29	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	30
31	FLOOR BOXES RM 300X	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300X	32
33	FLOOR BOXES RM 300X	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300X	34
35	FLOOR BOXES RM 300X	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300X	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		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP4

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300Y
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	2
3	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	4
5	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	6
7	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	8
9	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	10
11	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	12
13	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	14
15	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	16
17	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	18
19	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	20
21	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	22
23	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	24
25	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	26
27	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	28
29	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	30
31	FLOOR BOXES RM 300Y	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Y	32
33	FLOOR BOXES RM 300Y	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Y	34
35	FLOOR BOXES RM 300Y	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Y	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		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

SYM	DESCRIPTION	DATE	APVR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY CONCURRED BY MCB-CL AMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SO | DRW UK | CHK YPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098597
SHEET 366 OF 456

E-607

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:46 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

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 RP5

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300Z
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	2
3	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	4
5	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	6
7	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	8
9	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	10
11	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	12
13	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	14
15	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	16
17	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	18
19	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	20
21	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	22
23	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	24
25	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	26
27	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	28
29	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	30
31	FLOOR BOXES RM 300Z	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300Z	32
33	FLOOR BOXES RM 300Z	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300Z	34
35	FLOOR BOXES RM 300Z	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300Z	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		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP6

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300C
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	2
3	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	4
5	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	6
7	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	8
9	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	10
11	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	12
13	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	14
15	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	16
17	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	18
19	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	20
21	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	22
23	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	24
25	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	26
27	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	28
29	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	30
31	FLOOR BOXES RM 300C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300C	32
33	FLOOR BOXES RM 300C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300C	34
35	FLOOR BOXES RM 300C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300C	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		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP7

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300B
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	2
3	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	4
5	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	6
7	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	8
9	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	10
11	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	12
13	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	14
15	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	16
17	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	18
19	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	20
21	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	22
23	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	24
25	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	26
27	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	28
29	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	30
31	FLOOR BOXES RM 300B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300B	32
33	FLOOR BOXES RM 300B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300B	34
35	FLOOR BOXES RM 300B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300B	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		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP8

FED FROM: DPLV2
LOCATION: SIMULATION CLASSROOM 300A
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	2
3	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	4
5	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	6
7	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	8
9	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	10
11	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	12
13	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	14
15	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	16
17	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	18
19	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	20
21	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	22
23	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	24
25	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	26
27	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	28
29	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	30
31	FLOOR BOXES RM 300A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 300A	32
33	FLOOR BOXES RM 300A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 300A	34
35	FLOOR BOXES RM 300A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 300A	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		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY CONCURRED BY MCB-CL AMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SO | DRW Uxk | CHK YPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NORFOLK, VA
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098598
SHEET 367 OF 456

E-608

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:49 PM

FILE NAME: BIM 360://HF PACKAGE 3P1338 MEF SIM CTR-1590892-E.rvt

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 RP9

FED FROM: DPLV3
LOCATION: EXERCISE CONTROL 202
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	2
3	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	4
5	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	6
7	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	8
9	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	10
11	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	12
13	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	14
15	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	16
17	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	18
19	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	20
21	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	22
23	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	24
25	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	26
27	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	28
29	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	30
31	FLOOR BOXES RM 202	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 202	32
33	FLOOR BOXES RM 202	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 202	34
35	FLOOR BOXES RM 202	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 202	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		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP10

FED FROM: DPLV3
LOCATION: SIMULATION CLASSROOM 200C
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	2
3	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	4
5	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	6
7	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	8
9	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	10
11	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	12
13	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	14
15	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	16
17	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	18
19	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	20
21	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	22
23	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	24
25	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	26
27	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	28
29	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	30
31	FLOOR BOXES RM 200C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200C	32
33	FLOOR BOXES RM 200C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200C	34
35	FLOOR BOXES RM 200C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200C	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		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP11

FED FROM: DPLV3
LOCATION: SIMULATION CLASSROOM 200B
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	2
3	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	4
5	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	6
7	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	8
9	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	10
11	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	12
13	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	14
15	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	16
17	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	18
19	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	20
21	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	22
23	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	24
25	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	26
27	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	28
29	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	30
31	FLOOR BOXES RM 200B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200B	32
33	FLOOR BOXES RM 200B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200B	34
35	FLOOR BOXES RM 200B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200B	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		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

PANEL RP12

FED FROM: DPLV3
LOCATION: SIMULATION CLASSROOM 200A
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	2
3	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	4
5	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	6
7	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	8
9	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	10
11	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	12
13	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	14
15	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	16
17	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	18
19	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	20
21	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	22
23	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	24
25	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	26
27	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	28
29	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	30
31	FLOOR BOXES RM 200A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 200A	32
33	FLOOR BOXES RM 200A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 200A	34
35	FLOOR BOXES RM 200A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 200A	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		8.6		KVA				
					72.0		72.0		72.0		AMPS				
				CONNECTED LOAD	25.9		KVA		71.9		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.0		KVA		49.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	25920 VA	69.29%	17960 VA		
				Total Conn. Load:	25920 VA
				Total Est. Demand:	17960 VA
				Total Conn.:	72 A
				Total Est. Demand:	50 A

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: CONCURRED BY MCB-CLAMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SD | DRW LAK | CHK VPS
PM / DM: TOWLER / ROOT
BRANCH HEAD: SEK
DESIGN DIRECTOR: PAUL K. SHREM
FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098599
SHEET 368 OF 456
E-609
DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:52 PM
FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

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 RP13

FED FROM: DPLV3
LOCATION: FIRE ROOM 104B
MOUNT: RECESSED

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	FLOOR BOXES RM 104A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 104A	2
3	FLOOR BOXES RM 104A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 104A	4
5	FLOOR BOXES RM 104A	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 104A	6
7	FLOOR BOXES RM 104A	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 104A	8
9	FLOOR BOXES RM 104A	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 104B	10
11	FLOOR BOXES RM 104B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 104B	12
13	FLOOR BOXES RM 104B	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 104B	14
15	FLOOR BOXES RM 104B	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 104B	16
17	FLOOR BOXES RM 104B	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 104B	18
19	FLOOR BOXES RM 104C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 104C	20
21	FLOOR BOXES RM 104C	10	20	1			0.72	0.72			1	20	10	FLOOR BOXES RM 104C	22
23	FLOOR BOXES RM 104C	10	20	1					0.72	0.72	1	20	10	FLOOR BOXES RM 104C	24
25	FLOOR BOXES RM 104C	10	20	1	0.72	0.72					1	20	10	FLOOR BOXES RM 104C	26
27	FLOOR BOXES RM 104C	10	20	1			0.72	0.00			1	20	--	SPARE	28
29	SPARE	--	20	1					0.00	0.00	1	20	--	SPARE	30
31	SPARE	--	20	1	0.00	0.00					1	20	--	SPARE	32
33	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	34
35	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42

		A	B	C	
	TOTAL	7.2	6.5	5.8	KVA
		60.9	54.9	48.0	AMPS
	CONNECTED LOAD	19.4	KVA	54.0	AMPS
NEC ARTICLE 220	DEMAND LOAD	14.7	KVA	40.9	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	19440 VA	75.72%	14720 VA		
				Total Conn. Load:	19440 VA
				Total Est. Demand:	14720 VA
				Total Conn.:	54 A
				Total Est. Demand:	41 A

PANEL RP14

FED FROM: DPLV3
LOCATION: ELEC 116
MOUNT: SURFACE

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT ELEC 116	12	20	1	0.54	0.85					1	20	12	COFFEE MAKER RM 108	2
3	RECEPT RM 107	12	20	1			0.54	0.72			1	20	12	RECEPT RM 402	4
5	RECEPT RM 402	12	20	1					0.72	1.08	1	20	12	RECEPT RM 400	6
7	MICROWAVE RM 108	12	20	1	1.65	1.65					1	20	12	MICROWAVE RM 108	8
9	RECEPT RM 105	12	20	1			0.90	0.90			1	20	12	RECEPT RM 106	10
11	RECEPT RM 108	12	20	1					1.26	1.44	1	20	12	VENDING MACHINE RM 108	12
13	RECEPT RM 109	12	20	1	0.72	0.90					1	20	12	RECEPT RM 103A	14
15	VENDING MACHINE RM 108	12	20	1			1.44	0.72			1	20	12	RECEPT RM 107	16
17	REFRIG RM 108	12	20	1					0.72	0.90	1	20	12	RECEPT RM 109	18
19	RECEPT RM 113	12	20	1	1.08	1.08					1	20	12	RECEPT RM 107	20
21	RECEPT RM 109	12	20	1			0.90	1.08			1	20	12	RECEPT RM 114	22
23	RECEPT RM 401 / RM 118	12	20	1					1.26	1.08	1	20	12	RECEPT RM 112	24
25	COPIER RM 105	12	20	1	1.20	0.00					--	--	--	PROVISIONED SPACE	26
27	RECEPT RM 111	12	20	1			1.08	1.20			1	20	12	COPIER RM 106	28
29	COPIER RM 109	12	20	1					1.20	0.00	--	--	--	PROVISIONED SPACE	30
31	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	32
33	PROVISIONED SPACE	--	--	--			0.00	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

		A	B	C	
	TOTAL	9.7	9.5	9.7	KVA
		80.8	79.0	80.7	AMPS
	CONNECTED LOAD	28.8	KVA	80.0	AMPS
NEC ARTICLE 220	DEMAND LOAD	25.1	KVA	69.6	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	11350 VA	100.00%	11350 VA		
RECEPT	17460 VA	78.64%	13730 VA		
				Total Conn. Load:	28810 VA
				Total Est. Demand:	25080 VA
				Total Conn.:	80 A
				Total Est. Demand:	70 A

PANEL RP15

FED FROM: DPLV3
LOCATION: ELEC 116
MOUNT: SURFACE

100 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	REFRIG RM 110	12	20	1	0.18	0.48					1	20	12	ELEC WATER COOLER COR. C011	2
3	WATER CLOSET RM G012	12	20	1			0.18	0.72			1	20	12	RECEPT MOTHER'S ROOM 110	4
5	SYSTEMS FURNITURE RM 107	12	20	1					1.08	0.72	1	20	12	SYSTEMS FURNITURE RM 109	6
7	RECEPT COR. C011 / COR. C012 / COR. C014 / COR....	12	20	1	1.26	0.72					1	20	12	SYSTEMS FURNITURE RM 106	8
9	RECEPT RM G011, G010, G012	12	20	1			0.90	0.72			1	20	12	SYSTEMS FURNITURE RM 107	10
11	SYSTEMS FURNITURE RM 107	12	20	1					1.44	1.08	1	20	12	SYSTEMS FURNITURE RM 109	12
13	LAVATORY RM G010	12	20	1	0.18	1.08					1	20	12	SYSTEMS FURNITURE RM 109	14
15	WATER CLOSET RM G011	12	20	1			0.18	1.08			1	20	12	SYSTEMS FURNITURE RM 109	16
17	RECEPT EXTERIOR	12	20	1					0.54	1.08	1	20	12	SYSTEMS FURNITURE RM 109	18
19	SYSTEMS FURNITURE RM 109	12	20	1	1.08	1.08					1	20	12	SYSTEMS FURNITURE RM 109	20
21	SYSTEMS FURNITURE RM 107	12	20	1			1.08	0.18			1	20	12	LAVATORY RM G011	22
23	LAVATORY RM G012	12	20	1					0.18	0.18	1	20	12	URINAL RM G010	24
25	WATER CLOSET RM G010	12	20	1	0.18	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
31	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	32
33	PROVISIONED SPACE	--	--	--			0.00	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

		A	B	C	
	TOTAL	6.2	5.0	6.3	KVA
		53.5	42.0	54.0	AMPS
	CONNECTED LOAD	17.6	KVA	48.8	AMPS
NEC ARTICLE 220	DEMAND LOAD	13.8	KVA	38.3	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	660 VA	100.00%	660 VA		
RECEPT	15660 VA	81.93%	12830 VA		
UFC-MOTOR-25%	1260 VA	25.00%	315 VA		
				Total Conn. Load:	17580 VA
				Total Est. Demand:	13805 VA
				Total Conn.:	49 A
				Total Est. Demand:	38 A

PANEL RP16

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

150 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT TV RM 206	12	20	1	0.18	0.50					1	20	12	AV FLAT PANELS RM 207	2
3	LAVATORY / WATER CLOSET RM G020	12	20	1			0.18	0.36			1	20	12	RECEPT RM 205	4
5	COFFEE POT RM 206	12	20	1					0.85	1.08	1	20	12	RECEPT FIRE ROOM 104C	6
7	COPIER RM 205	12	20	1	1.20	0.41					1	20	12	AV FLAT PANELS RM 104A, 104B, 104C	8
9	RECEPT CORR C013, C020, C021, C022, C023	12	20	1			1.08	0.54			1	20	12	RECEPT FIRE ROOM 104B	10
11	RECEPT RM G025	12	20	1					0.54	0.18	1	20	12	WATER CLOSET RM G024	12
13	RECEPT RM 403	12	20	1	0.72	0.48					1	20	12	ELEC WATER COOLER COR C023	14
15	REFRIG RM 206	12	20	1			0.72	0.72			1	20	12	RECEPT FIRE ROOM 104A	16
17	RECEPT RM 206	12	20	1					0.72	0.90	1	20	12	RECEPT RM 204, G024, G020, G021	18
19	LAVATORY RM G021, G024	12	20	1	0.18	1.00					1	20	12	RECEPT FIRE ROOM 104B	20
21	LAVATORY RM G025	12	20	1			0.18	1.00			1	30	10	RECEPT FIRE ROOM 104C	22
23	RECEPT FIRE ROOM 104C	12	20	1					1.00	1.00	1	30	10	RECEPT FIRE ROOM 104B	24
25	RECEPT FIRE ROOM 104A	10	30	1	1.00	1.08					1	20	12	RECEPT RM 206	26
27	RECEPT FIRE ROOM 104A	12	20	1			1.00	1.08			1	20	12	RECEPT RM 207	28
29	RECEPT RM 207	12	20	1					1.08	0.18	1	20	12	URINAL RM G025	30
31	RECEPT RM 207	12	20	1	1.44	1.65					1	20	12	MICROWAVE RM 206	32
33	RECEPT RM 207	12	20	1			1.44	1.65			1	20	12	MICROWAVE RM 206	34
35	MICROWAVE RM 206	12	20	1					1.65	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

		A	B	C	
	TOTAL	9.8	10.0	9.2	KVA
		82.8	83.8	76.5	AMPS
	CONNECTED LOAD	29.0	KVA	80.4	AMPS
NEC ARTICLE 220	DEMAND LOAD	23.4	KVA	64.8	AMPS

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	8200 VA	100.00%	8200 VA		
RECEPT	19865 VA	75.17%	14933 VA		
UFC-MOTOR-25%	900 VA	25.00%	225 VA		
				Total Conn. Load:	28965 VA
				Total Est. Demand:	23358 VA
				Total Conn.:	80 A
				Total Est. Demand:	65 A

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW Lee | CHK YPS

PM / DM: TOWLER / ROOT
BRANCH HEAD: SEK
DESIGN DIRECTOR: PAUL K. SHREM
FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA

JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098600
SHEET 369 OF 456

E-610

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:56:55 PM

FILE NAME: BIM 360://HF PACKAGE 3P1338 MEF SIM CTR-1590892-E.rvt

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 RP17

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

150 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	RECEPT TIMEZONE CLOCKS COR C022 / RM 202	12	20	1	0.36	0.50					1	20	12	AV FLAT PANELS RM 202	2
3	RECEPT TIMEZONE CLOCKS 200B	12	20	1			0.36	0.36			1	20	12	RECEPT EXTERIOR	4
5	AV FLAT PANEL RM 209	12	20	1					0.25	1.08	1	20	12	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	0.36	1	20	12	RECEPT TIMEZONE CLOCKS 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	0.36			1	20	12	RECEPT TIMEZONE CLOCKS COR C022 / RM 207	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	WATER CLOSET RM G025	12	20	1					0.18	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	8.8		9.0		8.7		KVA				
					73.6		74.8		72.6		AMPS				
				CONNECTED LOAD	26.5		KVA		73.5		AMPS				
NEC ARTICLE 220				DEMAND LOAD	19.6		KVA		54.5		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	2880 VA	100.00%	2880 VA		
RECEPT	23430 VA	71.34%	16715 VA	Total Conn. Load:	26490 VA
UFC-MOTOR-25%	180 VA	25.00%	45 VA	Total Est. Demand:	19640 VA
				Total Conn.:	74 A
				Total Est. Demand:	55 A

PANEL RP18

FED FROM: DPLV3
LOCATION: ELEC 403
MOUNT: SURFACE

150 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K 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 CLOCKS RM 300A	12	20	1			0.36	0.18			1	20	12	RECEPT TIMEZONE CLOCK COR C034	10
11	RECEPT TIMEZONE CLOCKS RM 300X	12	20	1					0.36	0.18	1	20	12	RECEPT TIMEZONE CLOCK COR C020	12
13	RECEPT TIMEZONE CLOCKS RM 200A	12	20	1	0.36	0.14					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	CONVENIENCE RECEPTS - CH-01 & CH-02	12	20	1			0.36	0.10			1	20	12	SHUNT TRIP CIRCUIT RM 304A / RM 304B	34
35	WATER CLOSET RM G020	12	20	1					0.18	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	9.1		8.7		8.4		KVA				
					76.2		72.6		69.9		AMPS				
				CONNECTED LOAD	26.2		KVA		72.6		AMPS				
NEC ARTICLE 220				DEMAND LOAD	18.1		KVA		50.2		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	100 VA	100.00%	100 VA		
RECEPT	25885 VA	69.32%	17943 VA	Total Conn. Load:	26165 VA
UFC-MOTOR-25%	180 VA	25.00%	45 VA	Total Est. Demand:	18088 VA
				Total Conn.:	73 A
				Total Est. Demand:	50 A

PANEL RP19

FED FROM: DPLV2
LOCATION: ELEC 306
MOUNT: SURFACE

125 A MAIN LUG ONLY
3PH 4WIRE 208Y/120V
10K 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	0.36			1	20	12	RECEPT TIMEZONE CLOCKS RM 301A	10
11	RECEPT RM 300C	12	20	1					1.08	0.36	1	20	12	RECEPT TIMEZONE CLOCKS RM 301B	12
13	RECEPT TIMEZONE CLOCKS RM 300Z	12	20	1	0.36	0.36					1	20	12	RECEPT TIMEZONE CLOCKS RM 300B	14
15	RECEPT TIMEZONE CLOCKS RM 300C	12	20	1			0.36	0.65			1	20	12	AV FLAT PANEL RM 301A	16
17	RECEPT TIMEZONE CLOCKS RM 300Y	12	20	1					0.36	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	12	RECEPT RM 300Z	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	8.1		8.5		8.1		KVA				
					67.8		70.8		67.8		AMPS				
				CONNECTED LOAD	24.8		KVA		68.8		AMPS				
NEC ARTICLE 220				DEMAND LOAD	17.4		KVA		48.3		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
RECEPT	24780 VA	70.18%	17390 VA		
				Total Conn. Load:	24780 VA
				Total Est. Demand:	17390 VA
				Total Conn.:	69 A
				Total Est. Demand:	48 A

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ WM Jordan COMPANY
~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY CONCURRED BY MCB-CL AMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SO | DRW UK | CHK YPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098601
SHEET 370 OF 456

E-611

DRAWFORM REVISION: 25 AUGUST 2020

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FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

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 TR1

FED FROM: DPLV1
LOCATION: COMM 208
MOUNT: SURFACE

100 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	SURGE PROTECTIVE DEVICE	--	20	3	0.00	0.18					1	20	12	RECEPT AV RACK RM 208	2
3	--	--	--	--			0.00	0.72			1	20	12	RECEPT RM 208	4
5	--	--	--	--					0.00	2.50	2	30	10	TELECOM RACK RM 208	6
7	RECEPT TELECOM RACK RM 208	12	20	1	0.18	2.50					--	--	--	--	8
9	RECEPT TELECOM RACK RM 208	12	20	1			0.18	1.58			2	25	10	SSCU-02	10
11	RECEPT AV RACK RM 208	12	20	1					0.18	1.58	--	--	--	--	12
13	RECEPT TELECOM RACK RM 208	12	20	1	0.18	0.18					1	20	12	RECEPT TELECOM RACK RM 208	14
15	RECEPT RM 208	12	20	1			0.72	0.18			1	20	12	RECEPT TELECOM RACK RM 208	16
17	RECEPT TELECOM RACK RM 208	12	20	1					0.18	0.00	1	20	--	SPARE	18
19	RECEPT AV RACK RM 208	12	20	1	0.18	0.00					1	20	--	SPARE	20
21	RECEPT AV RACK RM 208	12	20	1			0.18	0.00			1	20	--	SPARE	22
23	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	24
25	SPARE	--	30	2	0.00	0.00					--	--	--	PROVISIONED SPACE	26
27	--	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	SPARE	--	20	1					0.00	0.00	--	--	--	PROVISIONED SPACE	30
				TOTAL	3.4		3.6		4.4		KVA				
					28.3		29.9		37.2		AMPS				
				CONNECTED LOAD	11.4		KVA		31.6		AMPS				
NEC ARTICLE 220				DEMAND LOAD	10.5		KVA		29.0		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	6800 VA	100.00%	6800 VA		
RECEPT	1440 VA	100.00%	1440 VA	Total Conn. Load:	11402 VA
UFC-HVAC-70%	3162 VA	70.00%	2213 VA	Total Est. Demand:	10453 VA
				Total Conn.:	32 A
				Total Est. Demand:	29 A

PANEL TR2

FED FROM: DPLV1
LOCATION: COMM 115
MOUNT: SURFACE

100 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	SURGE PROTECTIVE DEVICE	--	20	3	0.00	0.18					1	20	12	RECEPT TELECOM RACK RM 115	2
3	--	--	--	--			0.00	0.18			1	20	12	RECEPT TELECOM RACK RM 115	4
5	--	--	--	--					0.00	0.00	1	20	--	SPARE	6
7	RECEPT TELECOM RACK RM 115	12	20	1	0.18	0.18					1	20	12	RECEPT TELECOM RACK RM 115	8
9	RECEPT TELECOM RACK RM 115	12	20	1			0.18	2.50			2	30	10	TELECOM RACK RM 115	10
11	SPARE	--	20	1					0.00	2.50	--	--	--	--	12
13	RECEPT TELECOM RACK RM 115	12	20	1	0.18	1.08					1	20	12	RECEPT RM 115	14
15	SPARE	--	20	1			0.00	0.00			2	30	--	SPARE	16
17	HPCU-01	10	25	2					0.92	0.00	--	--	--	--	18
19	--	--	--	--	0.92	0.00					1	20	--	SPARE	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	2.7		2.9		3.4		KVA				
					22.6		24.0		28.6		AMPS				
				CONNECTED LOAD	9.0		KVA		25.0		AMPS				
NEC ARTICLE 220				DEMAND LOAD	8.4		KVA		23.4		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	6080 VA	100.00%	6080 VA		
RECEPT	1080 VA	100.00%	1080 VA	Total Conn. Load:	8990 VA
UFC-HVAC-70%	1830 VA	70.00%	1281 VA	Total Est. Demand:	8441 VA
				Total Conn.:	25 A
				Total Est. Demand:	23 A

PANEL TR3

FED FROM: DPLV1
LOCATION: STOR. 110A
MOUNT: SURFACE

100 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 RM 110A	12	20	1	0.90	0.92					2	25	10	SSCU-01	2
3	RECEPT TELECOM RACK RM 110A	12	20	1			0.18	0.92			--	--	--	--	4
5	RECEPT TELECOM RACK RM 110A	12	20	1					0.18	0.18	1	20	12	RECEPT TELECOM RACK RM 110A	6
7	RECEPT TELECOM RACK RM 110A	12	20	1	0.18	0.18					1	20	12	RECEPT TELECOM RACK RM 110A	8
9	RECEPT TELECOM RACK RM 110A	12	20	1			0.18	2.50			2	30	10	TELECOM RACK RM 110A	10
11	SPARE	--	20	1					0.00	2.50	--	--	--	--	12
13	SPARE	--	20	1	0.00	0.00					2	30	--	SPARE	14
15	SPARE	--	20	1			0.00	0.00			--	--	--	--	16
17	SPARE	--	20	1					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	2.2		3.8		2.9		KVA				
					18.1		32.3		24.7		AMPS				
				CONNECTED LOAD	8.8		KVA		24.5		AMPS				
NEC ARTICLE 220				DEMAND LOAD	8.3		KVA		22.9		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	6080 VA	100.00%	6080 VA		
RECEPT	900 VA	100.00%	900 VA	Total Conn. Load:	8810 VA
UFC-HVAC-70%	1830 VA	70.00%	1281 VA	Total Est. Demand:	8261 VA
				Total Conn.:	24 A
				Total Est. Demand:	23 A

PROVIDE 150A MCB FOR PANEL
PPC1 WITH SHUNT TRIP

PANEL PPC1

FED FROM: DPLV1
LOCATION: SIM CONTROL SECURE COMM 304B
MOUNT: SURFACE

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	SURGE PROTECTIVE DEVICE	--	30	3	0.00	0.90					1	20	12	RECEPT RM 304B	2
3	--	--	--	--			0.00	1.00			1	20	12	RECEPT RACK RM 304B	4
5	--	--	--	--					0.00	1.00	1	20	12	RECEPT RACK RM 304B	6
7	RECEPT RACK RM 304B	12	20	1	1.00	1.00					1	20	12	RECEPT RACK RM 304B	8
9	RECEPT RACK RM 304B	12	20	1			1.00	2.08			2	30	10	SSCU-03	10
11	RECEPT RACK RM 304B	10	30	2					1.25	2.08	--	--	--	--	12
13	--	--	--	--	1.25	1.00					1	20	12	RECEPT RACK RM 304B	14
15	RECEPT RACK RM 304B	12	20	1			1.00	0.00			2	30	--	SPARE	16
17	RECEPT RACK RM 304B	12	20	1					1.00	0.00	--	--	--	--	18
19	RECEPT RACK RM 304B	12	20	1	1.00	0.00					1	20	--	SPARE	20
21	RECEPT RACK RM 304B	12	20	1			1.00	0.00			1	20	--	SPARE	22
23	PROVISIONED SPACE	--	--	--					0.00	0.00	1	20	--	SPARE	24
25	PROVISIONED SPACE	--	--	--	0.00	0.00					1	20	--	SPARE	26
27	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	28
29	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	30
				TOTAL	6.2		6.1		5.3		KVA				
					52.2		51.6		44.4		AMPS				
				CONNECTED LOAD	17.6		KVA		48.7		AMPS				
NEC ARTICLE 220				DEMAND LOAD	16.3		KVA		45.3		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	12500 VA	100.00%	12500 VA		
RECEPT	900 VA	100.00%	900 VA	Total Conn. Load:	17560 VA
UFC-HVAC-70%	4160 VA	70.00%	2912 VA	Total Est. Demand:	16312 VA
				Total Conn.:	49 A
				Total Est. Demand:	45 A

MARK	DATE	DESCRIPTION	SYM

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES BD | DRW LAK | CHK VPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098602
SHEET 371 OF 456
E-612
DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:57:00 PM
FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

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.

PROVIDE 400A MCB FOR PANEL
PPS1 WITH SHUNT TRIP

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

PANEL PPS1

400 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	SURGE PROTECTIVE DEVICE	--	30	3	0.00	1.00					1	20	12	CACCTUS (U) RACK RM 304A	2
3	--	--	--	--			0.00	3.00			1	30	10	MTWS (C) UPS RM 304A	4
5	--	--	--	--					0.00	3.00	1	30	10	MTWS (C) UPS RM 304A	6
7	CACCTUS (U) RACK RM 304A	12	20	1	1.00	2.00					1	30	10	CACCTUS (U) UPS RM 304A	8
9	MTWS (C) UPS RM 304A	10	30	1			3.00	5.00			2	70	4	CACCTUS (U) UPS RM 304A	10
11	MTWS (U) RACK RM 304A	12	20	1					1.00	5.00	--	--	--	--	12
13	MTWS (C) UPS RM 304A	10	30	1	3.00	1.00					1	20	12	MTWS (U) RACK RM 304A	14
15	MTWS (U) RACK RM 304A	12	20	1			1.00	1.00			1	20	12	CACCTUS (U) RACK RM 304A	16
17	CACCTUS (U) UPS RM 304A	4	70	2					5.00	1.00	1	20	12	MTWS (C) RACK RM 304A	18
19	--	--	--	--	5.00	1.00					1	20	12	CACCTUS (U) RACK RM 304A	20
21	CACCTUS (U) UPS RM 304A	10	30	1			2.00	3.00			1	30	10	MTWS (U) UPS RM 304A	22
23	CACCTUS (U) UPS RM 304A	10	30	1					2.00	3.00	1	30	10	MTWS (U) UPS RM 304A	24
25	CACCTUS (U) UPS RM 304A	10	30	1	2.00	3.00					1	30	10	MTWS (U) UPS RM 304A	26
27	MTWS (U) UPS RM 304A	10	30	1			3.00	3.00			1	30	10	MTWS (U) UPS RM 304A	28
29	MTWS (U) UPS RM 304A	10	30	1					3.00	3.00	1	30	10	MTWS (U) UPS RM 304A	30
31	MTWS (U) UPS RM 304A	10	30	1	3.00	3.00					1	30	10	MTWS (U) UPS RM 304A	32
33	SPARE	--	20	1			0.00	3.00			1	30	10	MTWS (C) UPS RM 304A	34
35	SPARE	--	20	1					0.00	3.00	1	30	10	MTWS (C) UPS RM 304A	36
37	SPARE	--	20	1	0.00	3.00					1	30	10	MTWS (C) UPS RM 304A	38
39	SPARE	--	70	2			0.00	0.00			1	30	--	SPARE	40
41	--	--	--	--					0.00	0.00	1	30	--	SPARE	42
				TOTAL	28.0		27.0		29.0		KVA				
					234.6		225.0		242.9		AMPS				
				CONNECTED LOAD	84.0		KVA		233.2		AMPS				
NEC ARTICLE 220				DEMAND LOAD	84.0		KVA		233.2		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	84000 VA	100.00%	84000 VA		
				Total Conn. Load:	84000 VA
				Total Est. Demand:	84000 VA
				Total Conn.:	233 A
				Total Est. Demand:	233 A

PROVIDE 225A MCB FOR PANEL
PPS2 WITH SHUNT TRIP

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

PANEL PPS2

225 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	SURGE PROTECTIVE DEVICE	--	30	3	0.00	0.90					1	20	12	RECEPT RM 304A	2
3	--	--	--	--			0.00	1.08			1	20	12	RECEPT RM 304A	4
5	--	--	--	--					0.00	1.00	1	20	12	RECEPT TIE (U) RACK RM 304A	6
7	CACCTUS (C) RACK RM 304A	12	20	1	1.00	3.00					1	30	10	MTWS (C) UPS RM 304A	8
9	CACCTUS (C) UPS RM 304A	10	30	1			2.00	3.00			1	30	10	MTWS (C) UPS RM 304A	10
11	TIE (U) UPS RM 304A	10	30	2					1.00	5.00	2	70	4	CACCTUS (C) UPS RM 304A	12
13	--	--	--	--	1.00	5.00					--	--	--	--	14
15	CACCTUS (C) UPS RM 304A	4	70	2			5.00	1.00			1	20	12	RECEPT TIE (U) RACK RM 304A	16
17	--	--	--	--					5.00	1.00	1	20	12	RECEPT TIE (U) RACK RM 304A	18
19	RECEPT TIE (U) RACK RM 304A	12	20	1	1.00	1.00					1	20	12	RECEPT TIE (U) RACK RM 304A	20
21	RECEPT TIE (U) RACK RM 304A	12	20	1			1.00	1.00			1	20	12	RECEPT TIE (U) RACK RM 304A	22
23	RECEPT TIE (U) RACK RM 304A	12	20	1					1.00	1.00	1	20	12	RECEPT TIE (U) RACK RM 304A	24
25	RECEPT TIE (U) RACK RM 304A	12	20	1	1.00	1.00					1	20	12	MTWS (C) RACK RM 304A	26
27	MTWS (C) RACK RM 304A	12	20	1			1.00	1.00			1	20	12	CACCTUS (C) RACK RM 304A	28
29	CACCTUS (C) RACK RM 304A	12	20	1					1.00	0.00	--	--	--	PROVISIONED SPACE	30
31	CACCTUS (C) RACK RM 304A	12	20	1	1.00	2.00					1	30	10	CACCTUS (C) UPS RM 304A	32
33	SPARE	--	20	1			0.00	2.00			1	30	10	CACCTUS (C) UPS RM 304A	34
35	SPARE	--	70	2					0.00	2.00	1	30	10	CACCTUS (C) UPS RM 304A	36
37	--	--	--	--	0.00	0.00					1	20	--	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	17.9		18.1		18.0		KVA				
					149.2		150.8		150.1		AMPS				
				CONNECTED LOAD	54.0		KVA		149.8		AMPS				
NEC ARTICLE 220				DEMAND LOAD	54.0		KVA		149.8		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	52000 VA	100.00%	52000 VA		
RECEPT	1980 VA	100.00%	1980 VA		
				Total Conn. Load:	53980 VA
				Total Est. Demand:	53980 VA
				Total Conn.:	150 A
				Total Est. Demand:	150 A

PROVIDE 150A MCB FOR PANEL
PPS3 WITH SHUNT TRIP

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

PANEL PPS3

150 A MAIN CIRCUIT BREAKER
3PH 4WIRE 208Y/120V
10K AIC
GROUND BAR

CKT	LOAD SERVED	WIRE	BRKR	PL	A		B		C		PL	BRKR	WIRE	LOAD SERVED	CKT
1	SURGE PROTECTIVE DEVICE	--	20	3	0.00	1.00					1	20	12	RECEPT MCEN (U) RACK RM 304A	2
3	--	--	--	--			0.00	1.00			1	20	12	RECEPT MCEN (U) RACK RM 304A	4
5	--	--	--	--					0.00	1.08	1	20	12	RECEPT RM 304A	6
7	RECEPT MCEN (U) RACK RM 304A	12	20	1	1.00	1.00					1	20	12	RECEPT MCEN (U) RACK RM 304A	8
9	RECEPT MCEN (U) RACK RM 304A	12	20	1			1.00	1.00			2	30	10	MCEN (U) UPS RM 304A	10
11	RECEPT TIE (C) RACK RM 304A	12	20	1					1.00	1.00	--	--	--	--	12
13	RECEPT MCEN (U) RACK RM 304A	12	20	1	1.00	1.00					1	20	12	RECEPT TIE (C) RACK RM 304A	14
15	SIPR (C) UPS RM 304A	10	30	2			1.00	1.00			1	20	12	RECEPT TIE (C) RACK RM 304A	16
17	--	--	--	--					1.00	1.00	1	20	12	RECEPT TIE (C) RACK RM 304A	18
19	RECEPT SIPR (C) RACK RM 304A	12	20	1	1.00	1.00					1	20	12	RECEPT SIPR (C) RACK RM 304A	20
21	RECEPT SIPR (C) RACK RM 304A	12	20	1			1.00	1.00			1	20	12	RECEPT SIPR (C) RACK RM 304A	22
23	RECEPT SIPR (C) RACK RM 304A	12	20	1					1.00	1.00	1	20	12	RECEPT SIPR (C) RACK RM 304A	24
25	RECEPT SIPR (C) RACK RM 304A	12	20	1	1.00	1.00					1	20	12	RECEPT MCEN (U) RACK RM 304A	26
27	RECEPT SIPR (C) RACK RM 304A	12	20	1			1.00	1.00			1	20	12	RECEPT SIPR (C) RACK RM 304A	28
29	RECEPT SIPR (C) RACK RM 304A	12	20	1					1.00	1.00	1	20	12	RECEPT MCEN (U) RACK RM 304A	30
31	RECEPT MCEN (U) RACK RM 304A	12	20	1	1.00	0.00					--	--	--	PROVISIONED SPACE	32
33	RECEPT MCEN (U) RACK RM 304A	12	20	1			1.00	0.00			1	20	--	SPARE	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	--	30	2			0.00	0.00			1	20	--	SPARE	40
41	--	--	--	--					0.00	0.00	1	20	--	SPARE	42
				TOTAL	10.0		10.0		9.1		KVA				
					84.5		84.5		75.7		AMPS				
				CONNECTED LOAD	29.1		KVA		80.7		AMPS				
NEC ARTICLE 220				DEMAND LOAD	29.1		KVA		80.7		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	28000 VA	100.00%	28000 VA		
RECEPT	1080 VA	100.00%	1080 VA		
				Total Conn. Load:	29080 VA
				Total Est. Demand:	29080 VA
				Total Conn.:	81 A
				Total Est. Demand:	81 A

PROVIDE 100A MCB FOR PANEL
PPS4 WITH SHUNT TRIP

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

PANEL PPS4

150 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	SURGE PROTECTIVE DEVICE	--	30	3	0.00	1.00					1	20	12	RECEPT TIE (C) RACK RM 304A	2
3	--	--	--	--			0.00	1.00			1	20	12	RECEPT TIE (C) RACK RM 304A	4
5	--	--	--	--					0.00	1.00	1	20	12	RECEPT TIE (C) RACK RM 304A	6
7	RECEPT TIE (C) RACK RM 304A	12	20	1	1.00	1.00					1	20	12	RECEPT TIE (C) RACK RM 304A	8
9	RECEPT TIE (C) RACK RM 304A	12	20	1			1.00	1.00			2	30	10	TIE (C) US RM 304A	10
11	SPARE	--	30	2					0.00	1.00	--	--	--	--	12
13	--	--	--	--	0.00	0.00					1	20	--	SPARE	14
15	SPARE	--	20	1			0.00	0.00			1	20	--	SPARE	16
17	SPARE	--	20	1					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
31	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	32
33	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	34
35	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	36
37	PROVISIONED SPACE	--	--	--	0.00	0.00					--	--	--	PROVISIONED SPACE	38
39	PROVISIONED SPACE	--	--	--			0.00	0.00			--	--	--	PROVISIONED SPACE	40
41	PROVISIONED SPACE	--	--	--					0.00	0.00	--	--	--	PROVISIONED SPACE	42
				TOTAL	3.0		3.0		2.0		KVA				
					26.3		26.3		16.7		AMPS				
				CONNECTED LOAD	8.0		KVA		22.2		AMPS				
NEC ARTICLE 220				DEMAND LOAD	8.0		KVA		22.2		AMPS				

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Equipment	8000 VA	100.00%	8000 VA		
				Total Conn. Load:	8000 VA
				Total Est. Demand:	8000 VA
				Total Conn.:	22 A
				Total Est. Demand:	22 A

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES BD | DRW UK | CHK VPS
PM / DM: TOWLER / ROOT
BRANCH HEAD: SEK
DESIGN DIRECTOR: PAUL K. SHREM
FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - PANEL SCHEDULES

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098603
SHEET 372 OF 456
E-613
DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:57:03 PM
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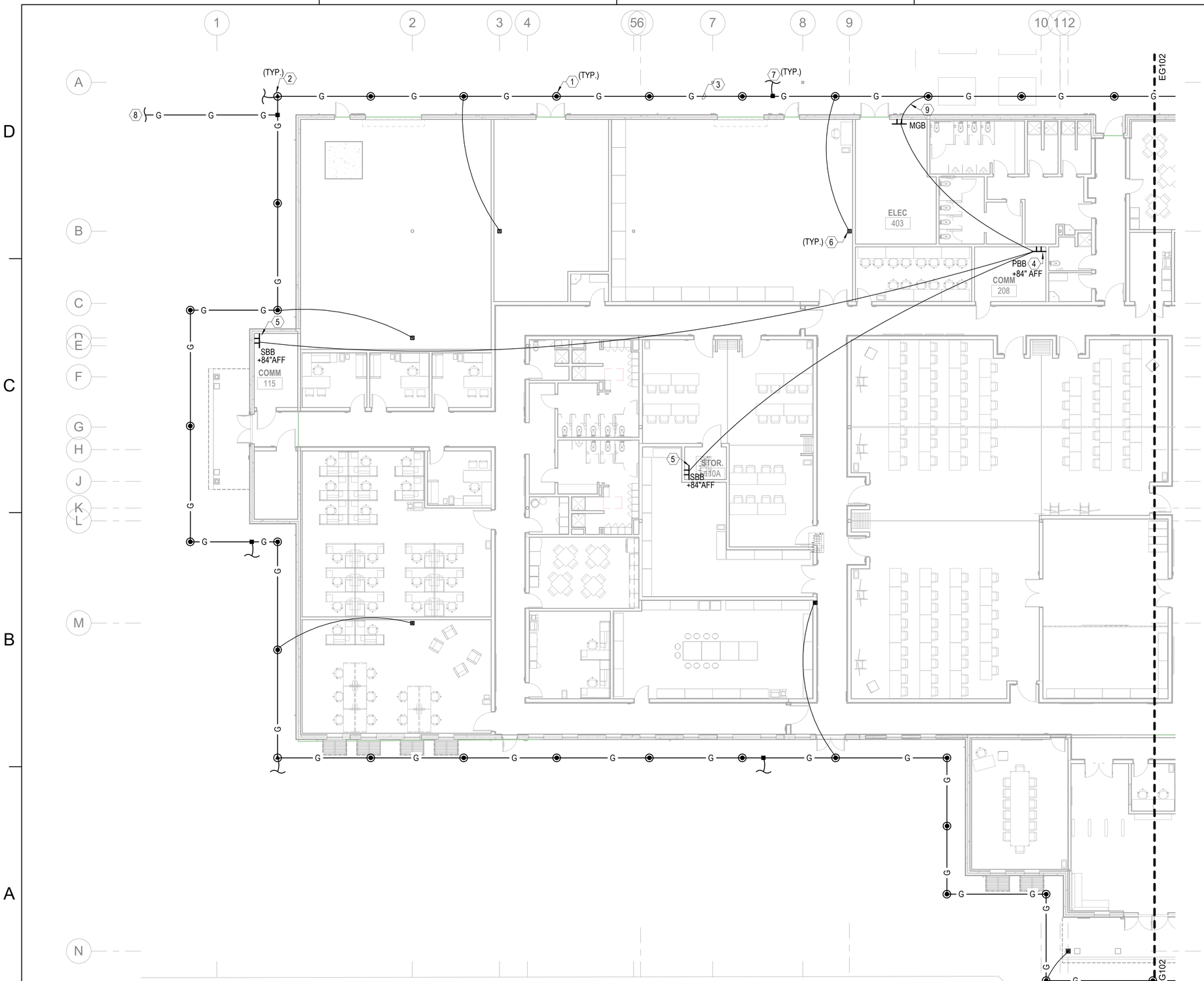

A1 ELECTRICAL - GROUNDING PLAN

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

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEET EG501 FOR GROUNDING DETAILS
3. SEE SHEETS EG103 AND EG104 FOR LIGHTNING PROTECTION PLAN
4. PENETRATIONS THROUGH FIRE-RATED WALLS MUST BE SEALED WITH FIRE STOPPING TO MAINTAIN FIRE-RATING OF WALL.

KEYNOTES

1. 3/4" DIAMETER BY 10' LONG COPPER CLAD GROUND ROD.
2. GROUND TEST WELL STATION. SEE DETAIL C4 ON SHEET EG501.
3. #4/0 AWG BARE COPPER GROUND LOOP INSTALLED 3' MINIMUM TO 10' MAXIMUM FROM BUILDING FOUNDATION AND BEYOND THE BUILDING PERIMETER.
4. PROVIDE CONNECTION TO MAIN GROUNDING BUS (MGB) IN ELECTRICAL ROOM 403 WITH #4/0 AWG BARE COPPER GEC. SEE DETAIL C1 ON SHEET EG501.
5. TELECOMMUNICATION SECONDARY GROUNDING BUSBAR (SBB) MUST BE CONNECTED TO TELECOMMUNICATION PRIMARY GROUNDING BUSBAR (PBB) IN ROOM 208. #4/0 AWG BARE COPPER GROUNDING WIRE USED FOR CONNECTION.
6. EXOTHERMIC WELD CONNECTION TO BUILDING STEEL.
7. DOWN CONDUCTOR CONNECTION FROM ROOF LIGHTNING PROTECTION SYSTEM. DOWN CONDUCTORS MUST RUN DOWN THE EXTERIOR OF THE BUILDING WALLS, PROTECTED BY SCH. 80 PVC CONDUIT. COORDINATE WITH LIGHTNING PROTECTION PLANS ON SHEETS EG103 AND EG104.
8. #4/0 AWG BARE COPPER GROUND CABLE RUN LENGTH OF FENCE. TIE FENCE POST TO GROUND WIRE VIA GROUND ROD. SEE DETAIL A2 ON SHEET ES506.
9. #4/0 AWG BARE COPPER GROUND WIRE FROM GROUND BAR TO GROUND RING.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL

SATISFACTORY TO DATE: 12/16/21

DES SD | DRW UK | CHK YPS

PM / DM: TOWLER / ROOT

BRANCH HEAD: SEK

DESIGN DIRECTOR: PAUL K. SHREM

FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA

JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - GROUNDING PLAN

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO. 14098561

SHEET 330 OF 456

EG101

DRAWFORM REVISION: 25 AUGUST 2020

0 8'-0" 16'-0" 32'-0"
SCALE: 0'-0 3/32" = 1'-0"

N

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:57:07 PM

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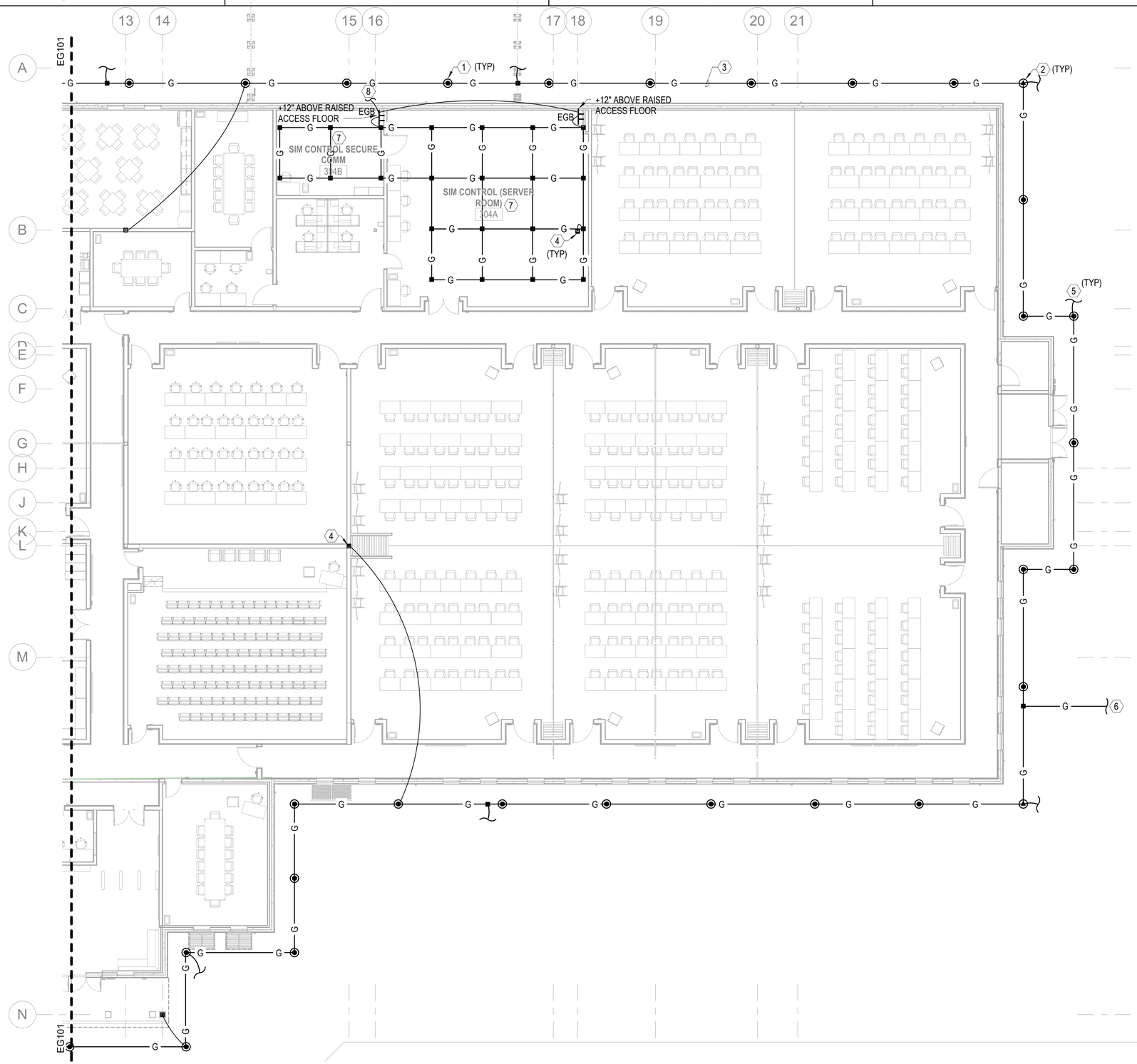


A1 ELECTRICAL - GROUNDING PLAN

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

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEET EG501 FOR GROUNDING DETAILS
3. SEE SHEETS EG103 AND EG104 FOR LIGHTNING PROTECTION PLAN
4. PENETRATIONS THROUGH FIRE-RATED WALLS MUST BE SEALED WITH FIRE STOPPING TO MAINTAIN FIRE-RATING OF WALL.

KEYNOTES

1. 3/4" DIAMETER BY 10' LONG COPPER CLAD GROUND ROD.
2. GROUND TEST WELL STATION. SEE DETAIL C4 ON SHEET EG501.
3. #4/0 AWG BARE COPPER GROUND LOOP INSTALLED 3' MINIMUM TO 10' MAXIMUM FROM BUILDING FOUNDATION AND BEYOND THE BUILDING PERIMETER.
4. EXOTHERMIC WELD CONNECTION TO BUILDING STEEL.
5. DOWN CONDUCTOR CONNECTION FROM ROOF LIGHTNING PROTECTION SYSTEM. DOWN CONDUCTORS MUST RUN DOWN THE EXTERIOR OF THE BUILDING WALLS, PROTECTED BY SCH. 80 PVC CONDUIT. COORDINATE WITH LIGHTNING PROTECTION PLANS ON SHEETS EG103 AND EG104.
6. #4/0 AWG BARE COPPER GROUND CABLE RUN LENGTH OF FENCE. TIE FENCE POST TO GROUND WIRE VIA GROUND ROD. SEE DETAIL A2 ON SHEET ES506.
7. #4/0 AWG BARE COPPER GROUND BONDING CONNECTION TO TELECOMMUNICATION RACKS IN RM 304A AND 304B. COORDINATE FINAL LOCATION OF TELECOMMUNICATION RACKS.
8. PROVIDE CONNECTION TO MAIN GROUNDING BUS (MGB) IN ELECTRICAL ROOM 403 WITH #4/0 AWG BARE COPPER GEC. SEE DETAIL C1 ON SHEET EG501.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY ~A JOINT VENTURE~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: CONCURRED BY MCB-CLAMB VIA EMAIL

SATISFACTORY TO DATE: 12/16/21

DES: SD | DRW: MK | CHK: YPS

PM / DM: TOWLER / ROOT

BRANCH HEAD: SEK

DESIGN DIRECTOR: PAUL K. SHREM

FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA

MCB CAMP LEJEUNE
JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - GROUNDING PLAN

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO.: 14098562

SHEET 331 OF 456

EG102

DRAWFORM REVISION: 25 AUGUST 2020

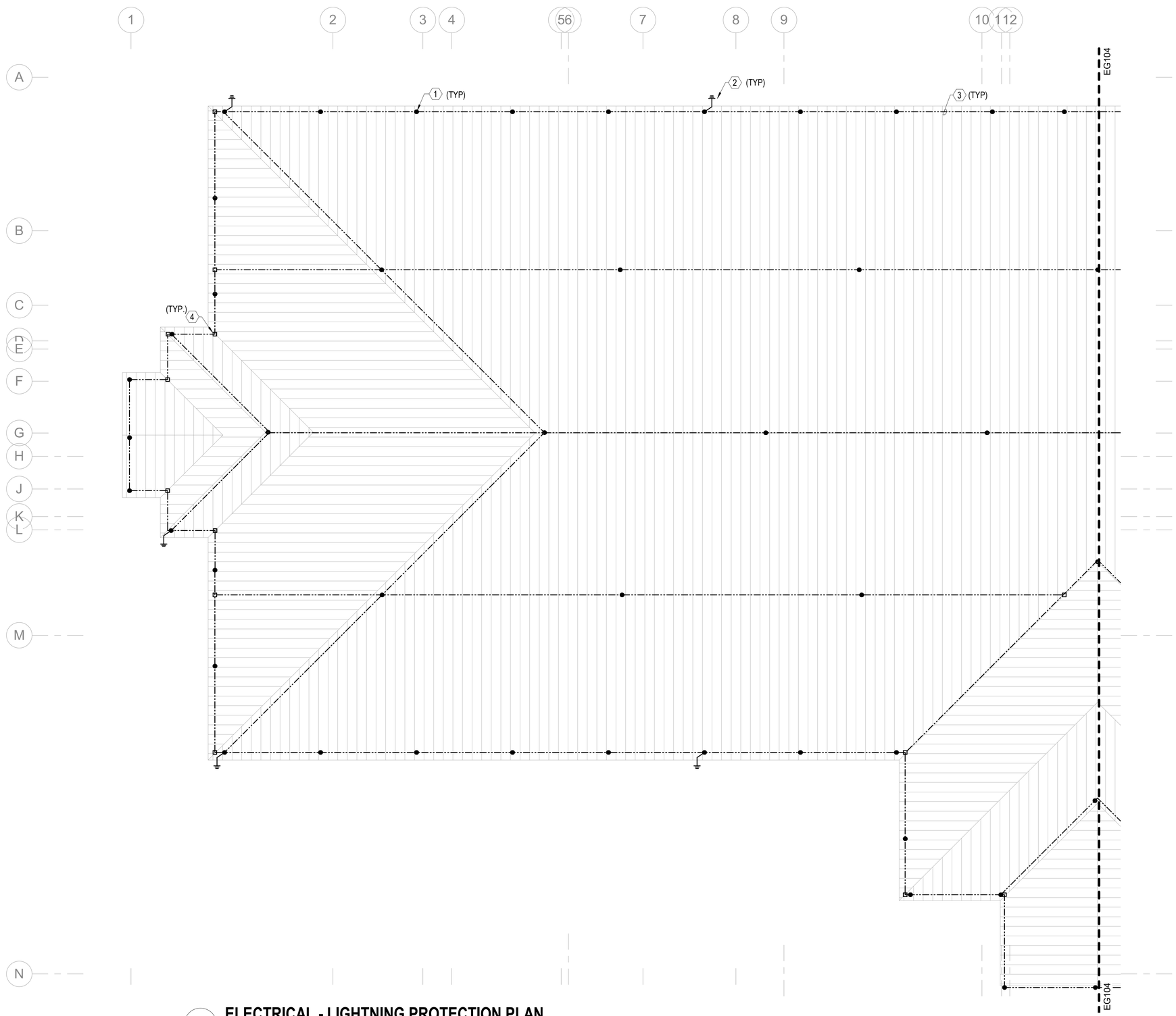
0 8'-0" 16'-0" 32'-0"
SCALE: 0'-0 3/32" = 1'-0"

N

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:57:11 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 ELECTRICAL - LIGHTNING PROTECTION PLAN

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

GENERAL NOTES

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

KEYNOTES

1. 5/8" BY 10" SOLID ALUMINUM AIR TERMINAL.
2. #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.
3. #4/0 AWG BARE STRANDED CLASS 1 ALUMINUM LIGHTNING PROTECTION MAIN CONDUCTOR CONSISTING OF STRANDS OF #13 AWG ALUMINUM.
4. ALUMINUM TO ALUMINUM CLAMP CONNECTOR.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY
~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW UK | CHK YPS

PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - LIGHTNING PROTECTION PLAN

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098563
SHEET 332 OF 456

EG103

DRAWFORM REVISION: 25 AUGUST 2020

0 8'-0" 16'-0" 32'-0"
SCALE: 0'-0 3/32" = 1'-0"
N

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:57:14 PM

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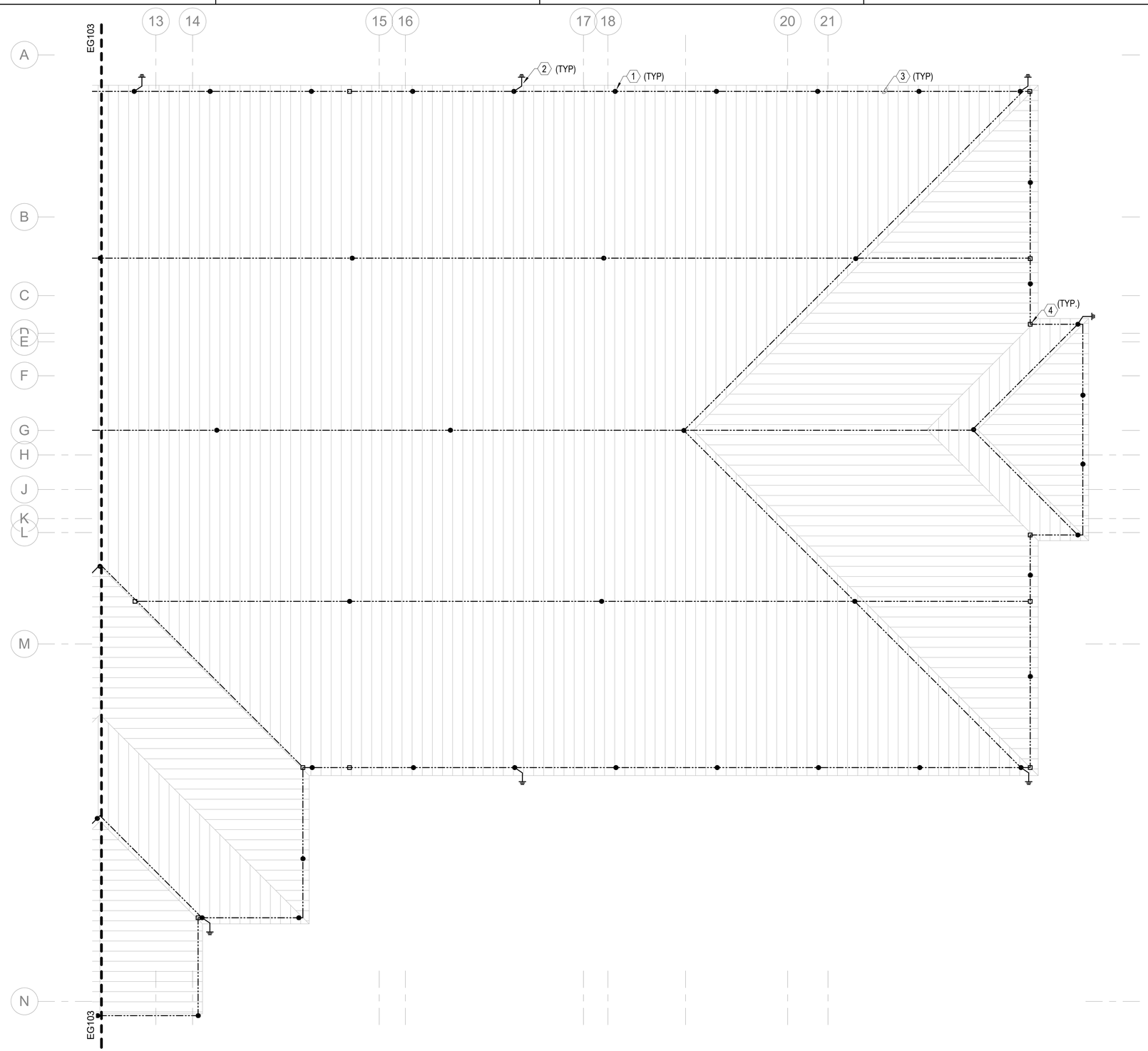

A1 ELECTRICAL - LIGHTNING PROTECTION PLAN

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

GENERAL NOTES

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

KEYNOTES

1. 5/8" BY 10" SOLID ALUMINUM AIR TERMINAL.
2. #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.
3. #4/0 AWG BARE STRANDED CLASS 1 ALUMINUM LIGHTNING PROTECTION MAIN CONDUCTOR CONSISTING OF STRANDS OF #13 AWG ALUMINUM.
4. ALUMINUM TO ALUMINUM CLAMP CONNECTOR.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW UK | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - LIGHTNING PROTECTION PLAN

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO.
14098564

SHEET 333 OF 456

EG104

DRAWFORM REVISION: 25 AUGUST 2020

0 8'-0" 16'-0" 32'-0"
SCALE: 0'-0 3/32" = 1'-0"

N

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:57:17 PM

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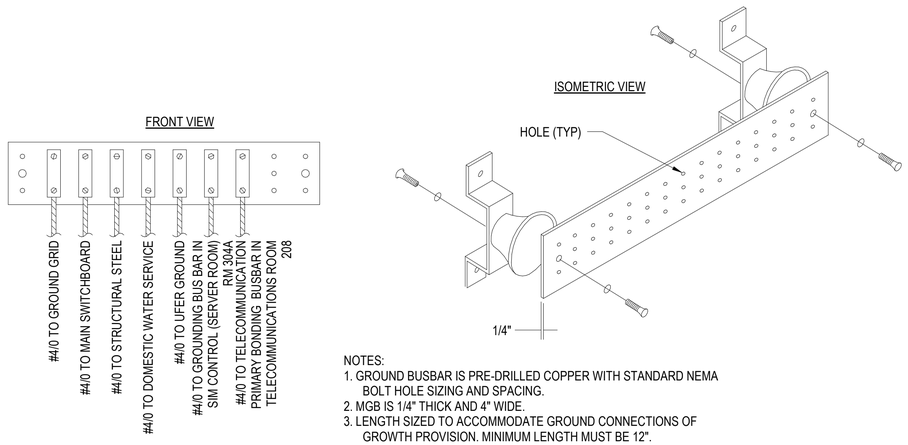
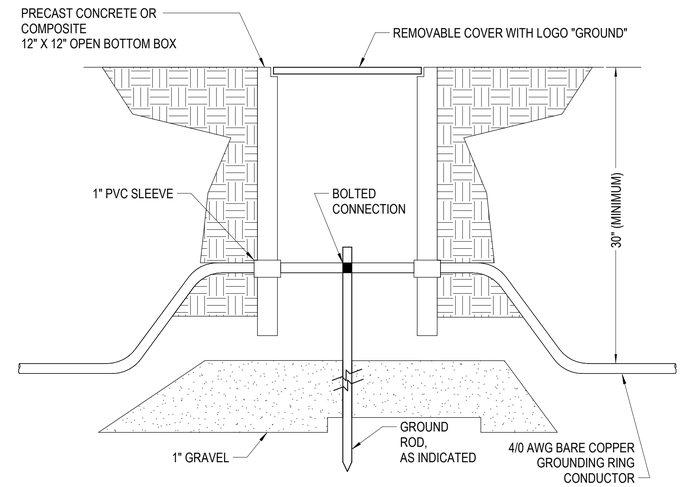


NOTES:
1. GROUND BUSBAR IS PRE-DRILLED COPPER WITH STANDARD NEMA BOLT HOLE SIZING AND SPACING.
2. MGB IS 1/4" THICK AND 4" WIDE.
3. LENGTH SIZED TO ACCOMMODATE GROUND CONNECTIONS OF GROWTH PROVISION. MINIMUM LENGTH MUST BE 12".

C1 ELECTRICAL MAIN GROUNDING BUSBAR

SCALE: NTS

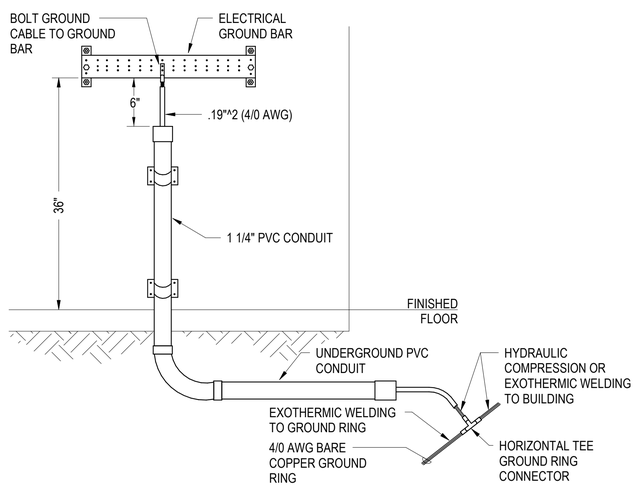
REF EG101 - EG102



C4 GROUND ROD TEST WELL

SCALE: NTS

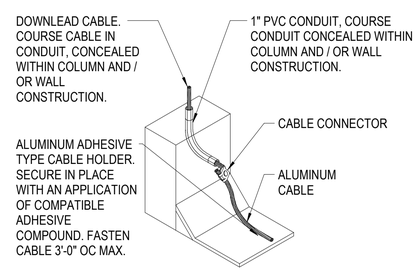
REF EG101 - EG102



A1 ELECTRICAL GROUND BAR AND GROUND RING CONNECTIONS

SCALE: NTS

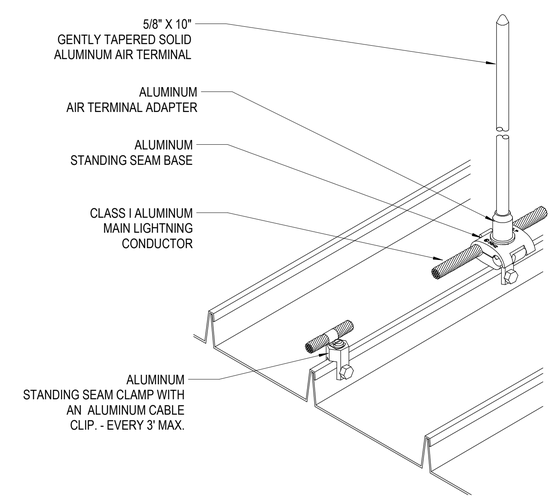
REF EG101 - EG102



A3 CONCEALED DOWNLEAD TO LOWER ROOF

SCALE: NTS

REF EG103 - EG104



A4 AIR TERMINAL

SCALE: NTS

REF EG103 - EG104

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY
~ A JOINT VENTURE ~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL

SATISFACTORY TO DATE: 12/16/21

DES: SO | DRW: UK | CHK: YPS

PM / DM: TOWLER / ROOT

BRANCH HEAD: SEK

DESIGN DIRECTOR: PAUL K. SHREM

FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - GROUNDING DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO. 14098565

SHEET 334 OF 456

EG501

DRAWFORM REVISION: 25 AUGUST 2020

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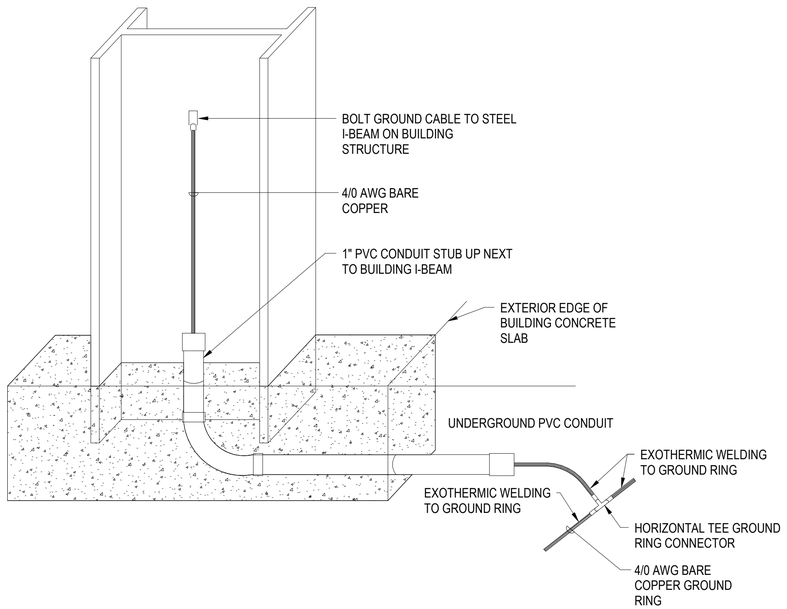
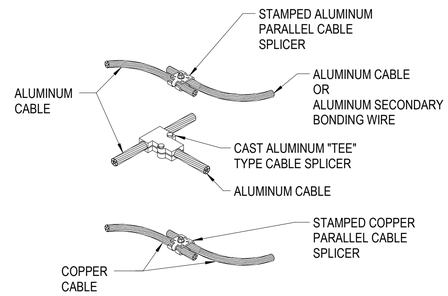


C1 BUILDING GROUND AND GROUND RING CONNECTIONS

SCALE: NTS

REF EG101 - EG102



C3 TYPICAL CABLE SPLICERS

SCALE: NTS

REF EG101 - EG102

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY
– A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
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MCB-CLAMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW LKK | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - GROUNDING DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO.
14098566

SHEET 335 OF 456

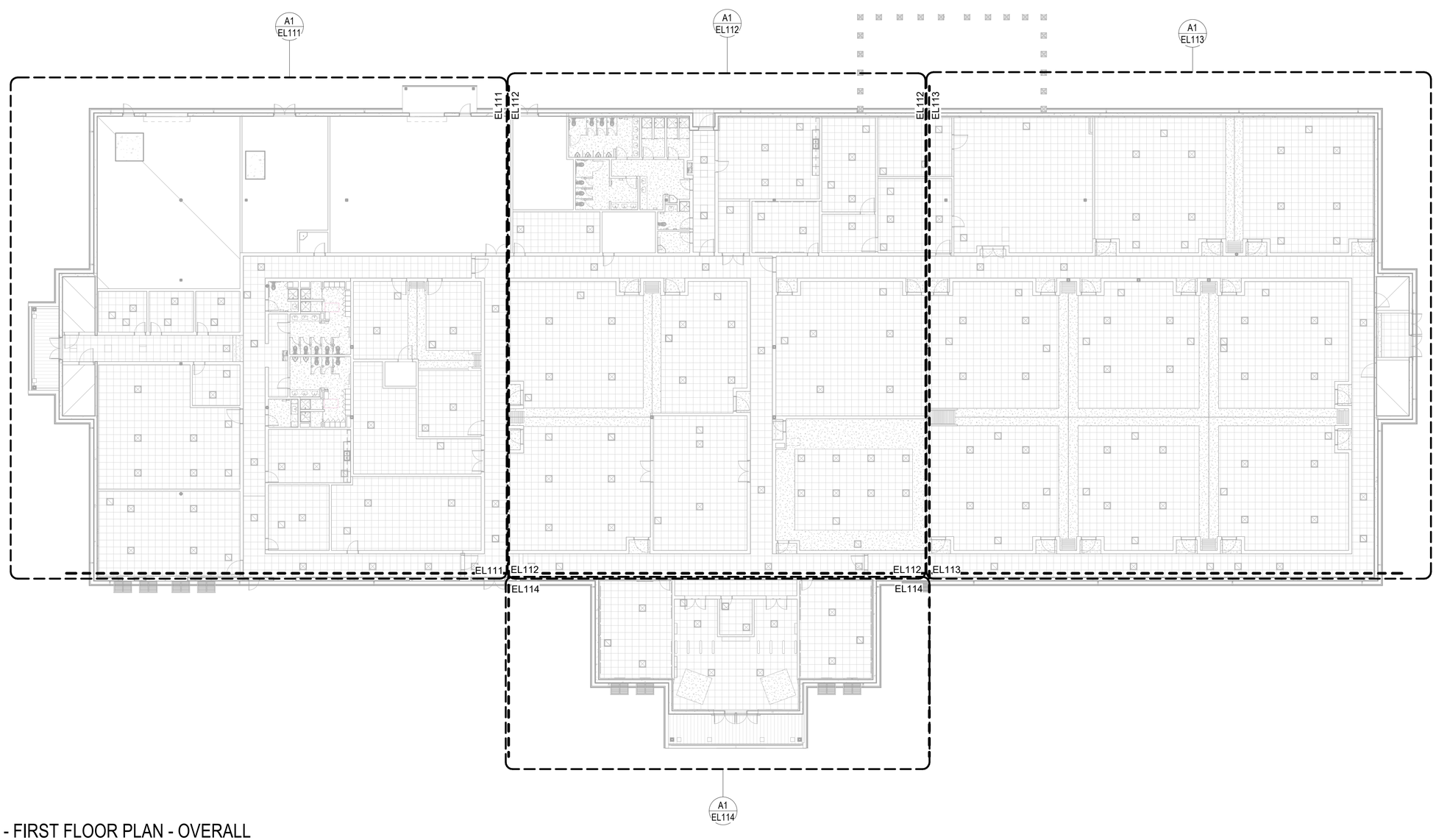
EG502

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:57:20 PM

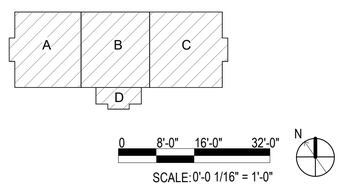
FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



LIGHTING - FIRST FLOOR PLAN - OVERALL

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

KEYPLAN



SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW LAK | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
LIGHTING - FIRST FLOOR PLAN - OVERALL

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO.
14098567

SHEET 336 OF 456

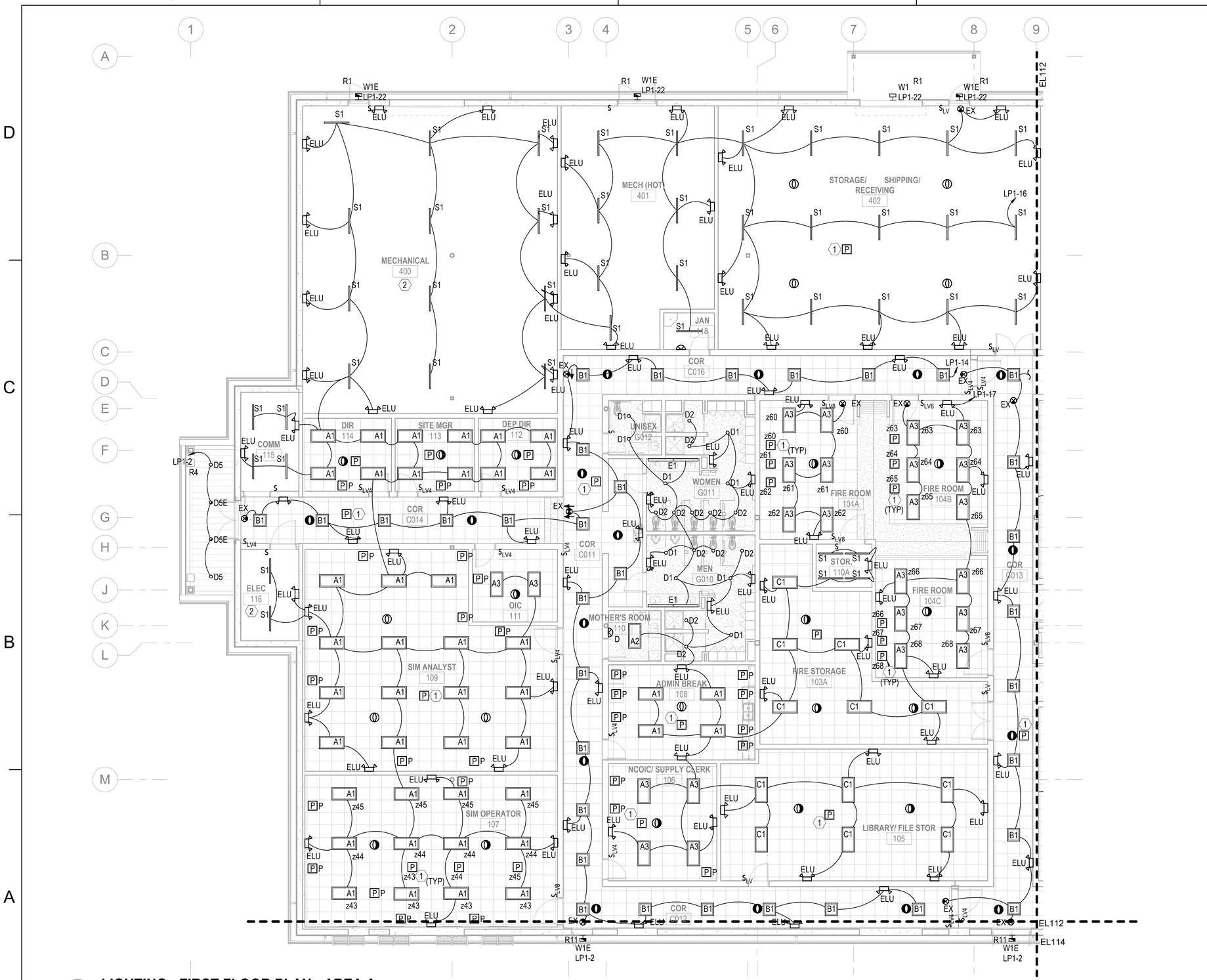
EL110

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:57:33 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 LIGHTING - FIRST FLOOR PLAN - AREA A

SCALE: 1/8" = 1'-0" (EL110)

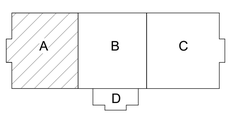
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.
3. THE WIRING SHOWN ON THE LIGHTING PLANS INDICATE FIXTURES WHICH ARE ON THE SAME CIRCUIT, NOT THE ACTUAL WIRING. CONTRACTOR MUST ADHERE TO THE SWITCH DESIGNATIONS AND LIGHTING CONTROL DIAGRAMS FOR THE ACTUAL WIRING.
4. CONNECT EXIT SIGN AND EMERGENCY LIGHTING UNITS AHEAD OF THE SWITCH/SENSOR TO THE NORMAL LIGHTING CICUIT THAT IS LOCATED IN THE SAME AREA/ROOM IN WHICH THOSE EXIT AND EMERGENCY LUMINAIRES ARE SERVING.
5. MECHANICAL AREA LIGHTING FIXTURES LOCATIONS AND MOUNTING HEIGHTS FIELD COORDINATED WITH EXACT MECHANICAL EQUIPMENT LAYOUT.
6. PROVIDE POWER PACKS AS REQUIRED FOR PLUG LOAD RECEPTACLE CONTROL, LOCATED ABOVE ACCESSIBLE CEILING. SEE DETAIL B1 ON SHEET E-507 FOR MORE INFORMATION.

KEYNOTES

1. PROVIDE AN AUXILARY INPUT/OUTPUT INTERFACE TO ALLOW INPUT FROM FIRE ALARM PANEL TO OVERRIDE LIGHTING CONTROLS. PROGRAM STANDALONE DEVICES SO THAT CONTROLLED LIGHTING ALONG THE PATH OF EGRESS COMES TO FULL BRIGHTNESS UPON FIRE ALARM ACTIVATION. SEE DETAIL C3, SHEET E-506 FOR MORE INFORMATION.
2. MOUNT FIXTURES AT 9'-0" AFF.

KEYPLAN



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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
CONCURRED BY
MCB-CLAMB
VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SD | DRW UK | CHK VPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
LIGHTING - FIRST FLOOR PLAN - AREA A

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098568
SHEET 337 OF 456

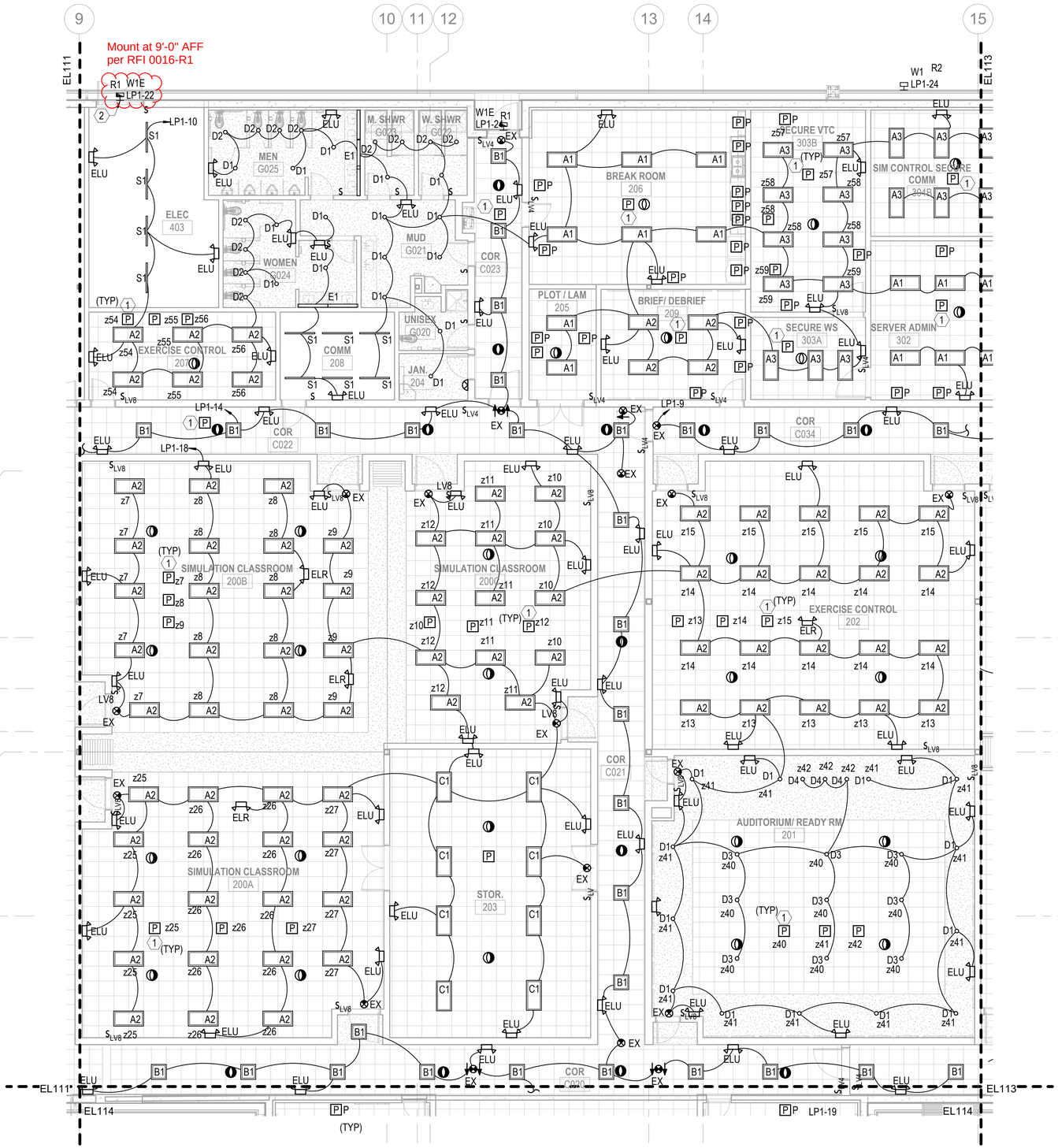
EL111

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:57:48 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 LIGHTING - FIRST FLOOR PLAN - AREA B

SCALE: 1/8" = 1'-0" (EL110)

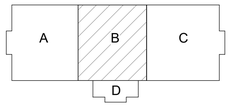
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.
3. THE WIRING SHOWN ON THE LIGHTING PLANS INDICATE FIXTURES WHICH ARE ON THE SAME CIRCUIT, NOT THE ACTUAL WIRING. CONTRACTOR MUST ADHERE TO THE SWITCH DESIGNATIONS AND LIGHTING CONTROL DIAGRAMS FOR THE ACTUAL WIRING.
4. CONNECT EXIT SIGN AND EMERGENCY LIGHTING UNITS AHEAD OF THE SWITCH/SENSOR TO THE NORMAL LIGHTING CICUIT THAT IS LOCATED IN THE SAME AREA/ROOM IN WHICH THOSE EXIT AND EMERGENCY LUMINAIRES ARE SERVING.
5. MECHANICAL AREA LIGHTING FIXTURES LOCATIONS AND MOUNTING HEIGHTS FIELD COORDINATED WITH EXACT MECHANICAL EQUIPMENT LAYOUT.
6. PROVIDE POWER PACKS AS REQUIRED FOR PLUG LOAD RECEPTACLE CONTROL, LOCATED ABOVE ACCESSIBLE CEILING. SEE DETAIL B1 ON SHEET E-507 FOR MORE INFORMATION.

KEYNOTES

1. PROVIDE AN AUXILARY INPUT/OUTPUT INTERFACE TO ALLOW INPUT FROM FIRE ALARM PANEL TO OVERRIDE LIGHTING CONTROLS. PROGRAM STANDALONE DEVICES SO THAT CONTROLLED LIGHTING ALONG THE PATH OF EGRESS COMES TO FULL BRIGHTNESS UPON FIRE ALARM ACTIVATION. SEE DETAIL C3, SHEET E-506 FOR MORE INFORMATION.
2. MOUNT FIXTURES AT 9'-0" AFF.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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SENOL DURUR
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100 AIRSIDE DRIVE
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APPROVED
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ACTIVITY CONCURRED BY MCB-CL AMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SO | DRW UK | CHK YPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
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ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
LIGHTING - FIRST FLOOR PLAN - AREA B

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098569
SHEET 338 OF 456

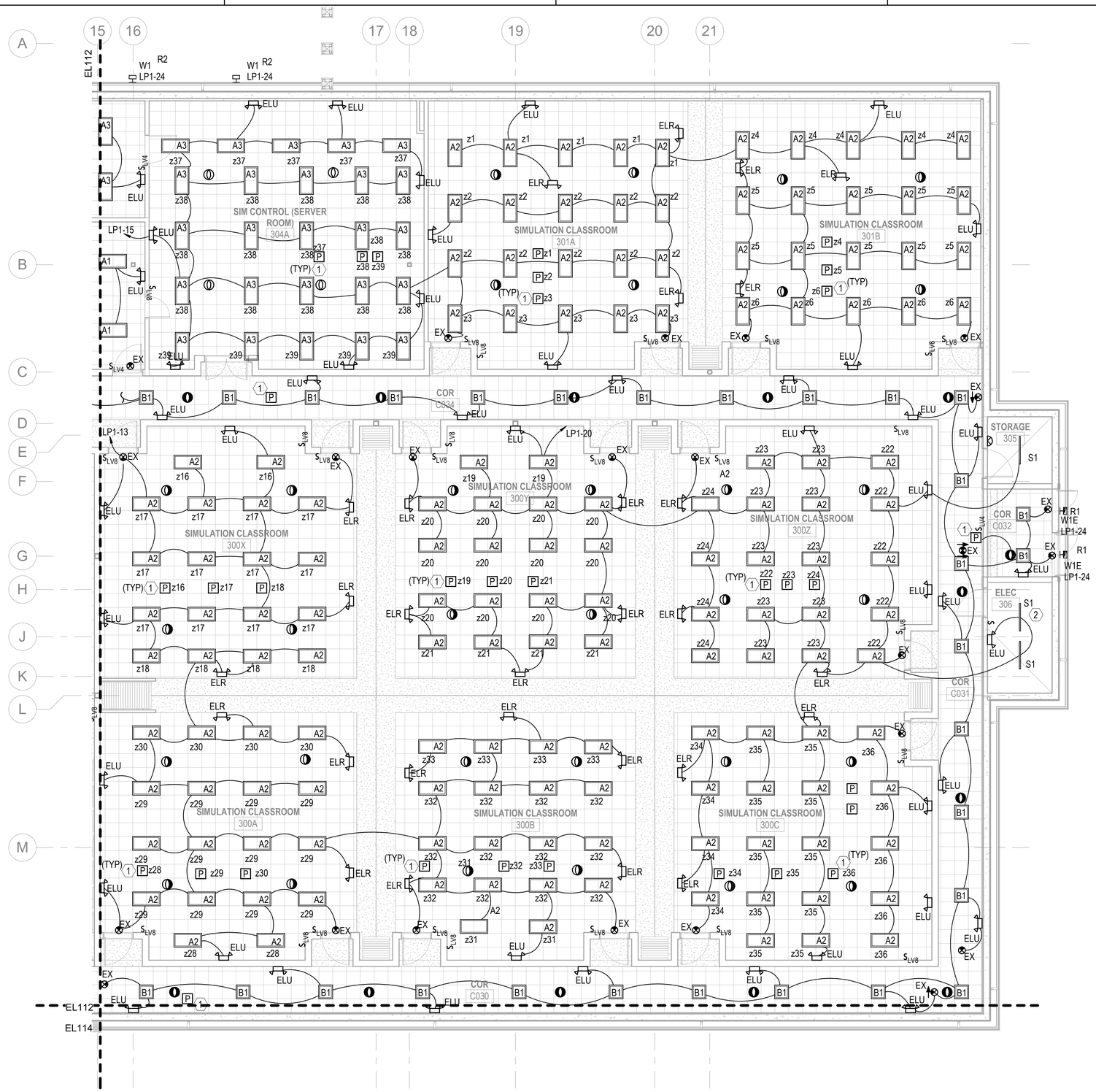
EL112

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:58:03 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 LIGHTING - FIRST FLOOR PLAN - AREA C

SCALE: 1/8" = 1'-0" (EL110)

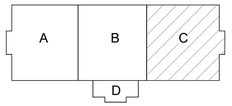
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.
3. THE WIRING SHOWN ON THE LIGHTING PLANS INDICATE FIXTURES WHICH ARE ON THE SAME CIRCUIT, NOT THE ACTUAL WIRING. CONTRACTOR MUST ADHERE TO THE SWITCH DESIGNATIONS AND LIGHTING CONTROL DIAGRAMS FOR THE ACTUAL WIRING.
4. CONNECT EXIT SIGN AND EMERGENCY LIGHTING UNITS AHEAD OF THE SWITCH/SENSOR TO THE NORMAL LIGHTING CICUIT THAT IS LOCATED IN THE SAME AREA/ROOM IN WHICH THOSE EXIT AND EMERGENCY LUMINAIRES ARE SERVING.
5. MECHANICAL AREA LIGHTING FIXTURES LOCATIONS AND MOUNTING HEIGHTS FIELD COORDINATED WITH EXACT MECHANICAL EQUIPMENT LAYOUT.
6. PROVIDE POWER PACKS AS REQUIRED FOR PLUG LOAD RECEPTACLE CONTROL, LOCATED ABOVE ACCESSIBLE CEILING. SEE DETAIL B1 ON SHEET E-507 FOR MORE INFORMATION.

KEYNOTES

1. PROVIDE AN AUXILARY INPUT/OUTPUT INTERFACE TO ALLOW INPUT FROM FIRE ALARM PANEL TO OVERRIDE LIGHTING CONTROLS. PROGRAM STANDALONE DEVICES SO THAT CONTROLLED LIGHTING ALONG THE PATH OF EGRESS COMES TO FULL BRIGHTNESS UPON FIRE ALARM ACTIVATION. SEE DETAIL C3, SHEET E-506 FOR MORE INFORMATION.
2. MOUNT FIXTURES AT 9'-0" AFF.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

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

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES ID: DRW.Lvl: CHK ver:
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
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NORFOLK, VA
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P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
LIGHTING - FIRST FLOOR PLAN - AREA C

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098570
SHEET 339 OF 456

EL113

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:58:10 PM

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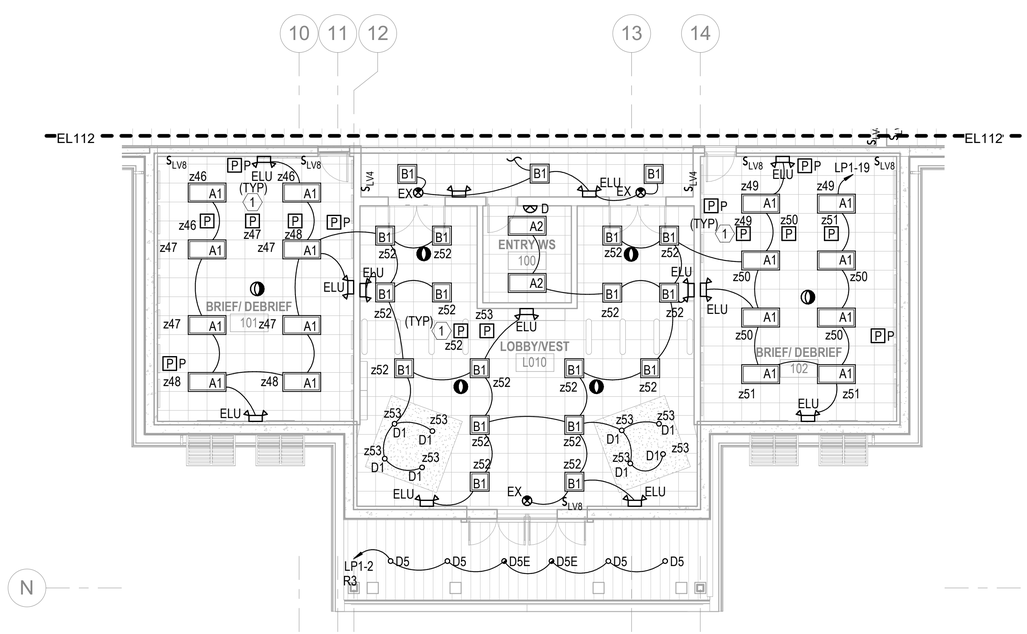

A1 LIGHTING - FIRST FLOOR PLAN - AREA D

SCALE: 1/8" = 1'-0" (EL110)

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. SEE SHEET E-601 FOR LIGHTING FIXTURE SCHEDULE.
3. THE WIRING SHOWN ON THE LIGHTING PLANS INDICATE FIXTURES WHICH ARE ON THE SAME CIRCUIT, NOT THE ACTUAL WIRING. CONTRACTOR MUST ADHERE TO THE SWITCH DESIGNATIONS AND LIGHTING CONTROL DIAGRAMS FOR THE ACTUAL WIRING.
4. CONNECT EXIT SIGN AND EMERGENCY LIGHTING UNITS AHEAD OF THE SWITCH/SENSOR TO THE NORMAL LIGHTING CICUIT THAT IS LOCATED IN THE SAME AREA/ROOM IN WHICH THOSE EXIT AND EMERGENCY LUMINAIRES ARE SERVING.
5. MECHANICAL AREA LIGHTING FIXTURES LOCATIONS AND MOUNTING HEIGHTS FIELD COORDINATED WITH EXACT MECHANICAL EQUIPMENT LAYOUT.
6. PROVIDE POWER PACKS AS REQUIRED FOR PLUG LOAD RECEPTACLE CONTROL, LOCATED ABOVE ACCESSIBLE CEILING. SEE DETAIL B1 ON SHEET E-507 FOR MORE INFORMATION.

KEYNOTES

1. PROVIDE AN AUXILARY INPUT/OUTPUT INTERFACE TO ALLOW INPUT FROM FIRE ALARM PANEL TO OVERRIDE LIGHTING CONTROLS. PROGRAM STANDALONE DEVICES SO THAT CONTROLLED LIGHTING ALONG THE PATH OF EGRESS COMES TO FULL BRIGHTNESS UPON FIRE ALARM ACTIVATION. SEE DETAIL C3, SHEET E-506 FOR MORE INFORMATION.

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
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RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES BD | DRW LAK | CHK YPS

PM / DM: TOWLER / ROOT

BRANCH HEAD: SEK

DESIGN DIRECTOR: PAUL K. SHREM

FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA

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

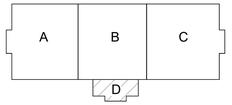
NAVFAC DRAWING NO. 14098571

SHEET 340 OF 456

EL114

DRAWFORM REVISION: 25 AUGUST 2020

KEYPLAN



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

N

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:58:14 PM

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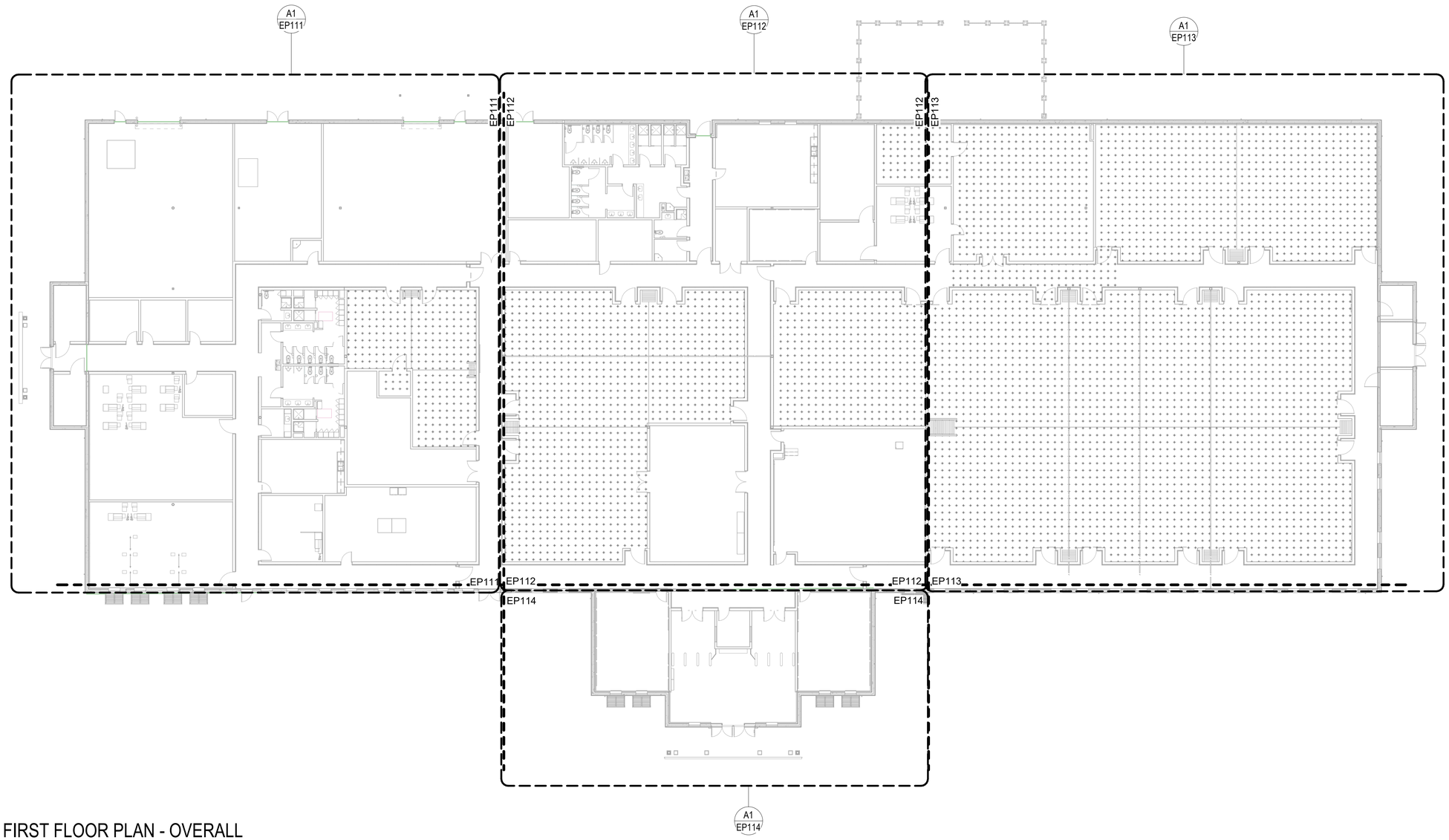
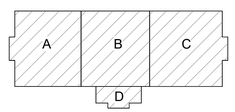


POWER - FIRST FLOOR PLAN - OVERALL

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

KEYPLAN



0 8'-0" 16'-0" 32'-0"

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

N

MARK	DATE	DESCRIPTION	INITIALS

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

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MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES: SO | DRW: UK | CHK: YPS

PM / DM: TOWLER / ROOT

BRANCH HEAD: SEK

DESIGN DIRECTOR: PAUL K. SHREM

FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - FIRST FLOOR PLAN - OVERALL

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO.
14098572

SHEET 341 OF 456

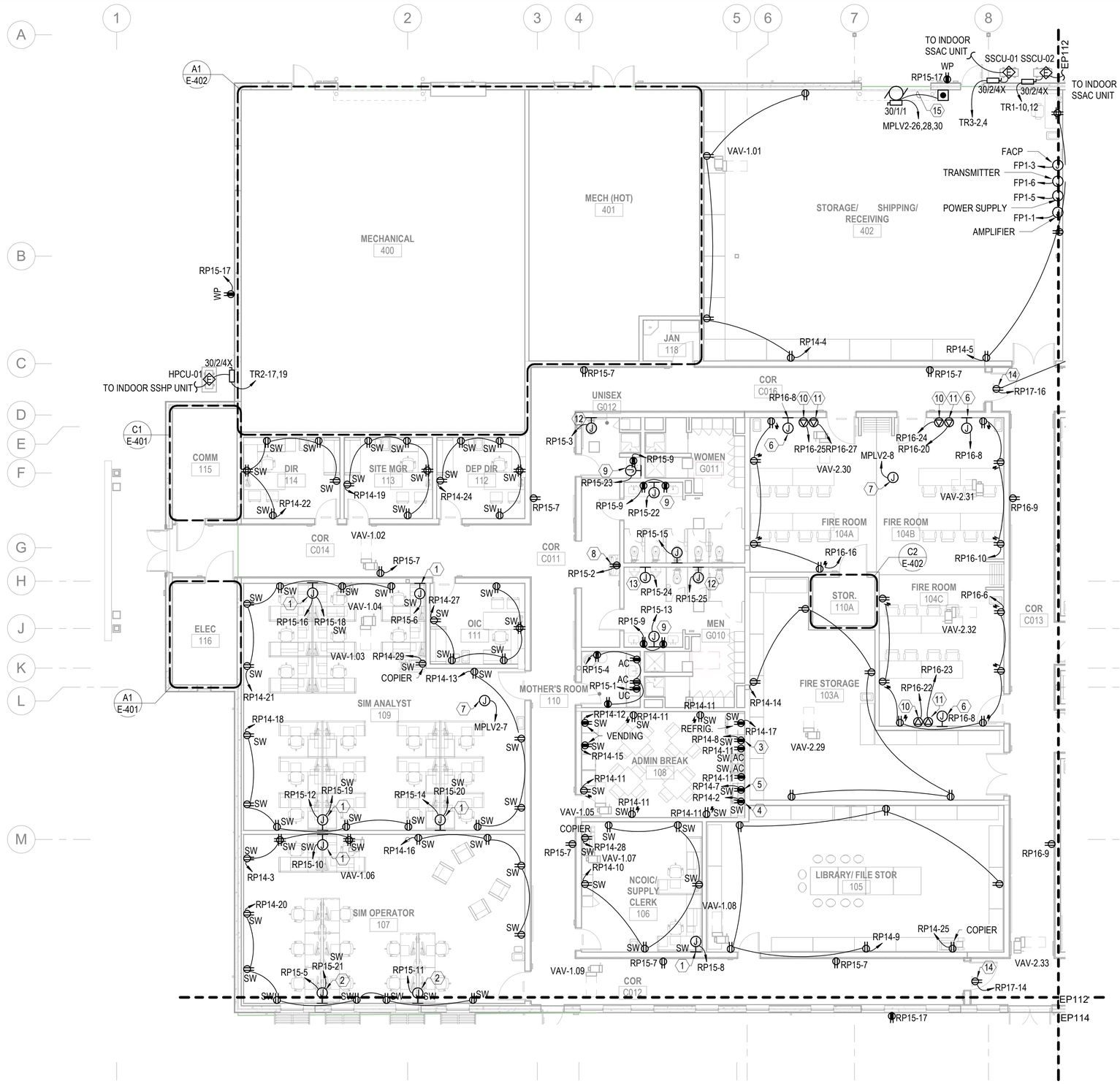
EP110

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:58:22 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 POWER - FIRST FLOOR PLAN - AREA A

SCALE: 1/8" = 1'-0" (EP110)

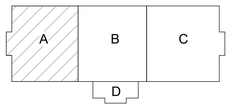
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.
3. RECEPTACLE CONTROL PLUG LOAD POWER PACKS ARE INDICATED ON LIGHTING SHEETS EL111-EL114 WITH LIGHTING POWER PACKS. POWER PACKS LOCATED ABOVE ACCESSIBLE CEILING. COORDINATE WITH DETAIL B1 ON SHEET E-507

KEYNOTES

1. JUNCTION BOX FOR FURNITURE WHIP. COORDINATE AND PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.
2. JUNCTION BOX FOR FURNITURE POWER BAR. COORDINATE AND PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.
3. RECEPTACLE FOR MICROWAVE ON SHELF ABOVE COUNTERTOP, MOUNT RECEPTACLE AT 60" AFF.
4. GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR COFFEE POT.
5. GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR MICROWAVE.
6. DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE INSTALLED IN AV WALL BOX. REFERENCE TA-SERIES DRAWINGS FOR DETAILS, MOUNTING HEIGHT, AND LOCATION.
7. 120V ELECTRICAL CONNECTION FOR VAV BOX 120-24V CONTROL TRANSFORMER. TERMINATE CONDUCTORS ON THE LINE SIDE OF THE TRANSFORMER. 120V POWER BY ELECTRICAL CONTRACTOR. 24V LOW VOLTAGE WIRING FROM THE TRANSFORMER TO THE VAV IS BY OTHERS. COORINDATE WITH MECHANICAL INSTALLATION.
8. RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER'S RECOMMENDATIONS.
9. HARD-WIRED 120V/6-24V TRASNFORMER CONNECTION FOR LAVATORY INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF LAVATORY. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.
10. NEMA L6-30R TWIST LOCK RECEPTACLE - 208V, 1PH, 30A. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH USER.
11. NEMA 5-20R RECEPTACLE - 120V, 1PH, 20A. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH USER.
12. HARD-WIRED 120V/6-24V TRANSFORMER CONNECTION FOR WATER CLOSET INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF WATER CLOSET. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.
13. HARD-WIRED 120V/6-24V TRANSFORMER CONNECTION FOR URINAL INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF URINAL. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.
14. DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. MOUNT RECEPTACLE AT 8'-0" AFF AND COORDINATE FINAL LOCATION WITH INSTALLATION OF CLOCKS.
15. CONDUIT BY ELECTRICAL CONTRACTOR. LOW VOLTAGE WIRING BY OTHERS.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

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ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW Uxk | CHK YPS

PM / DM: TOWLER / ROOT

BRANCH HEAD: SEK

DESIGN DIRECTOR: PAUL K. SHREM

FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - FIRST FLOOR PLAN - AREA A

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO. 14098573

SHEET 342 OF 456

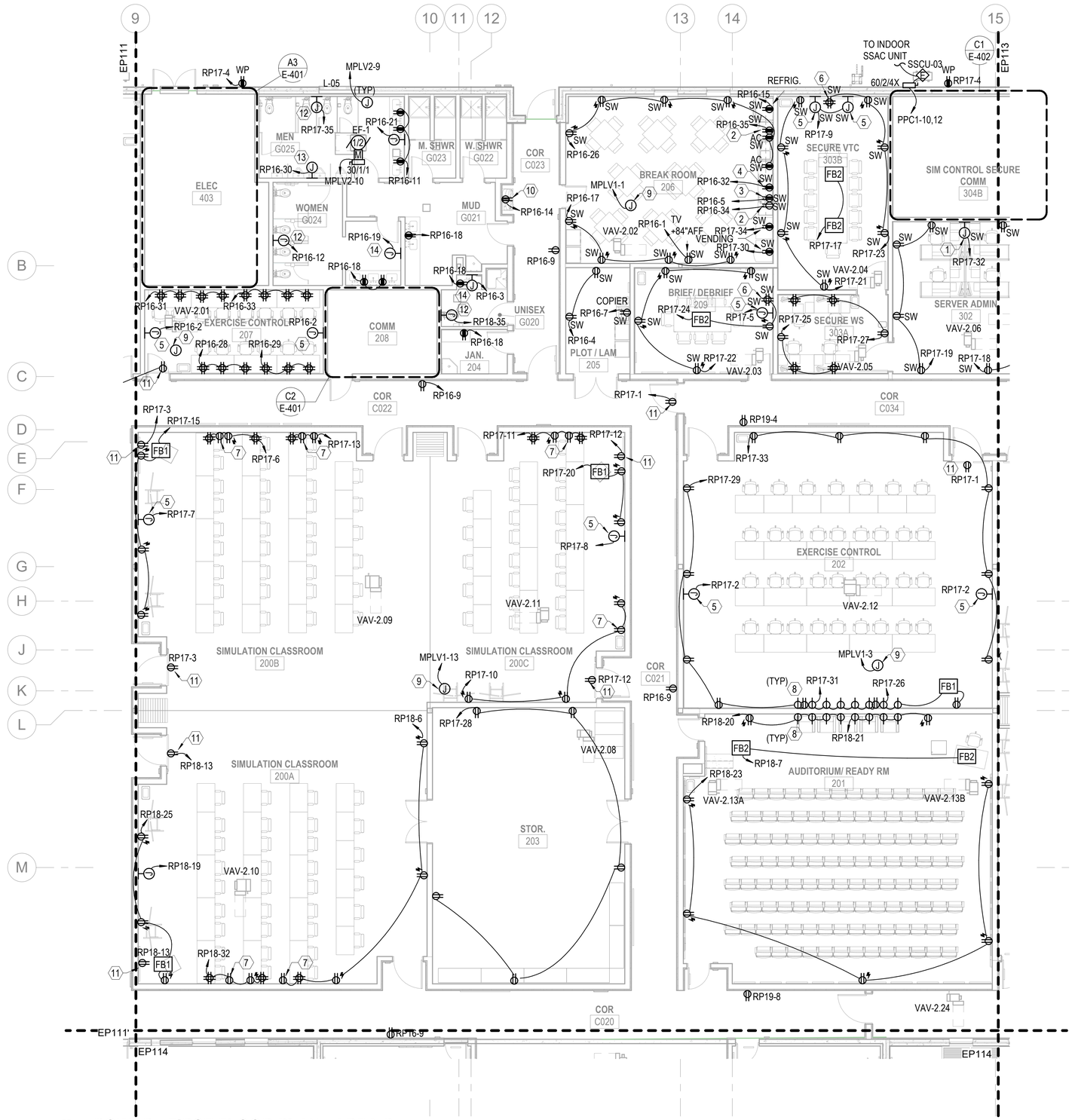
EP111

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:58:27 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



A1 POWER - FIRST FLOOR PLAN - AREA B

SCALE: 1/8" = 1'-0" (EP110)

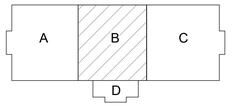
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.
3. RECEPTACLE CONTROL PLUG LOAD POWER PACKS ARE INDICATED ON LIGHTING SHEETS EL111-EL114 WITH LIGHTING POWER PACKS. POWER PACKS LOCATED ABOVE ACCESSIBLE CEILING. COORDINATE WITH DETAIL B1 ON SHEET E-507

KEYNOTES

1. JUNCTION BOX FOR FURNITURE WHIP. COORDINATE AND PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.
2. RECEPTACLE FOR MICROWAVE ON SHELF ABOVE COUNTERTOP, MOUNT RECEPTACLE AT 60" AFF.
3. GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR COFFEE POT.
4. GFCI RECEPTACLE ABOVE COUNTER DEDICATED FOR MICROWAVE.
5. DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE INSTALLED IN AV WALL BOX. REFERENCE TA-SERIES DRAWINGS FOR DETAILS, MOUNTING HEIGHT, AND LOCATION.
6. AV RECESSED QUAD RECEPTACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
7. AV RECESSED DUPLEX RECETACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
8. AV RECESSED CLOCK RECEPTACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
9. 120V ELECTRICAL CONNECTION FOR VAV BOX 120-24V CONTROL TRANSFORMER. TERMINATE CONDUCTORS ON THE LINE SIDE OF THE TRANSFORMER. 120V POWER BY ELECTRICAL CONTRACTOR. 24V LOW VOLTAGE WIRING FROM THE TRANSFORMER TO THE VAV IS BY OTHERS. COORINDATE WITH MECHANICAL INSTALLATION.
10. RECEPTACLE FOR ELECTRIC WATER COOLER. COORDINATE LOCATION WITH MANUFACTURER'S RECOMMENDATIONS.
11. DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. MOUNT RECEPTACLE AT 8'-0" AFF AND COORDINATE FINAL LOCATION WITH INSTALLATION OF CLOCKS.
12. HARD-WIRED 120V/6-24V TRANSFORMER CONNECTION FOR WATER CLOSET INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF WATER CLOSET. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.
13. HARD-WIRED 120V/6-24V TRANSFORMER CONNECTION FOR URINAL INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF URINAL. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.
14. HARD-WIRED 120V/6-24V TRASNFORMER CONNECTION FOR LAVATORY INFRARED FLUSH VALVE. COORDINATE FINAL LOCATION WITH INSTALLATION OF LAVATORY. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.

KEYPLAN



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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS — SENOL DURUR — ELECTRICAL — No. 47946 — REGISTERED PROFESSIONAL ENGINEER

RQ — W.M. Jordan COMPANY — A JOINT VENTURE

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES by | DRW by | CHK by
PM / DM: TOWLER / ROOT
BRANCH HEAD: SEK
DESIGN DIRECTOR: PAUL K. SHREM
FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC NORFOLK, VA
MCB CAMP LEJEUNE JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - FIRST FLOOR PLAN - AREA B

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098574
SHEET 343 OF 456
EP112
DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:58:33 PM
FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

A1 POWER - FIRST FLOOR PLAN - AREA C

SCALE: 1/8" = 1'-0" (EP110)

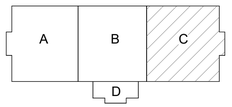
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.
3. RECEPTACLE CONTROL PLUG LOAD POWER PACKS ARE INDICATED ON LIGHTING SHEETS EL111-EL114 WITH LIGHTING POWER PACKS. POWER PACKS LOCATED ABOVE ACCESSIBLE CEILING. COORDINATE WITH DETAIL B1 ON SHEET E-507

KEYNOTES

1. DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE INSTALLED IN AV WALL BOX. REFERENCE TA-SERIES DRAWINGS FOR DETAILS, MOUNTING HEIGHT, AND LOCATION.
2. AV RECESSED DUPLEX RECETACLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH AV INSTALLATION.
3. 120V ELECTRICAL CONNECTION FOR VAV BOX 120-24V CONTROL TRANSFORMER. TERMINATE CONDUCTORS ON THE LINE SIDE OF THE TRANSFORMER. 120V POWER BY ELECTRICAL CONTRACTOR. 24V LOW VOLTAGE WIRING FROM THE TRANSFORMER TO THE VAV IS BY OTHERS. COORINDATE WITH MECHANICAL INSTALLATION.
4. DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. MOUNT RECEPTACLE AT 8'-0" AFF AND COORDINATE FINAL LOCATION WITH INSTALLATION OF CLOCKS.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

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

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES BY | DRW LAY | CHK TYPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - FIRST FLOOR PLAN - AREA C

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098575
SHEET 344 OF 456

EP113

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:58:38 PM

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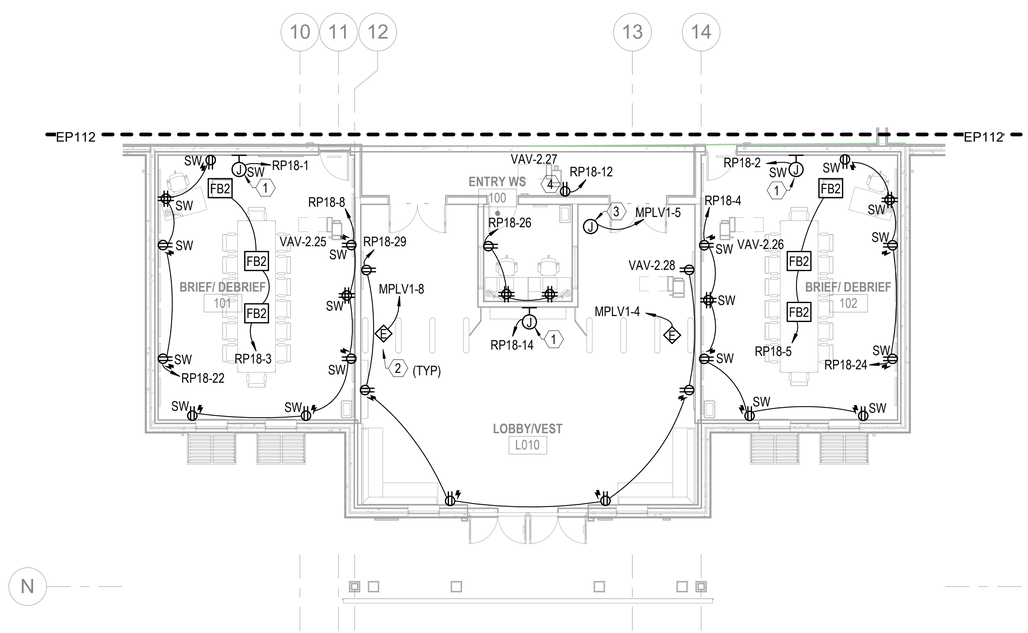


A1 POWER - FIRST FLOOR PLAN - AREA D

SCALE: 1/8" = 1'-0" (EP110)

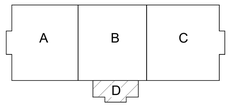
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. FLOORBOX AND JUNCTION BOX LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS BASED ON EQUIPMENT AND FURNITURE FINAL LOCATIONS.
3. RECEPTACLE CONTROL PLUG LOAD POWER PACKS ARE INDICATED ON LIGHTING SHEETS EL111-EL114 WITH LIGHTING POWER PACKS. POWER PACKS LOCATED ABOVE ACCESSIBLE CEILING. COORDINATE WITH DETAIL B1 ON SHEET E-507

KEYNOTES

1. DEDICATED RECEPTACLE FOR AV FLAT PANEL. RECEPTACLE 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. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS.
3. 120V ELECTRICAL CONNECTION FOR VAV BOX 120-24V CONTROL TRANSFORMER. TERMINATE CONDUCTORS ON THE LINE SIDE OF THE TRANSFORMER. 120V POWER BY ELECTRICAL CONTRACTOR. 24V LOW VOLTAGE WIRING FROM THE TRANSFORMER TO THE VAV IS BY OTHERS. COORINDATE WITH MECHANICAL INSTALLATION.
4. DEDICATED DUPLEX RECEPTACLE FOR SYNCHRONIZED CLOCK SYSTEM. MOUNT RECEPTACLE AT 8'-0" AFF AND COORDINATE FINAL LOCATION WITH INSTALLATION OF CLOCKS.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW LKK | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA

MCB CAMP LEJEUNE
JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

POWER - FIRST FLOOR PLAN - AREA D

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO.
14098576

SHEET 345 OF 456

EP114

DRAWFORM REVISION: 25 AUGUST 2020

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PLOTTED: 11/22/2021 3:58:41 PM

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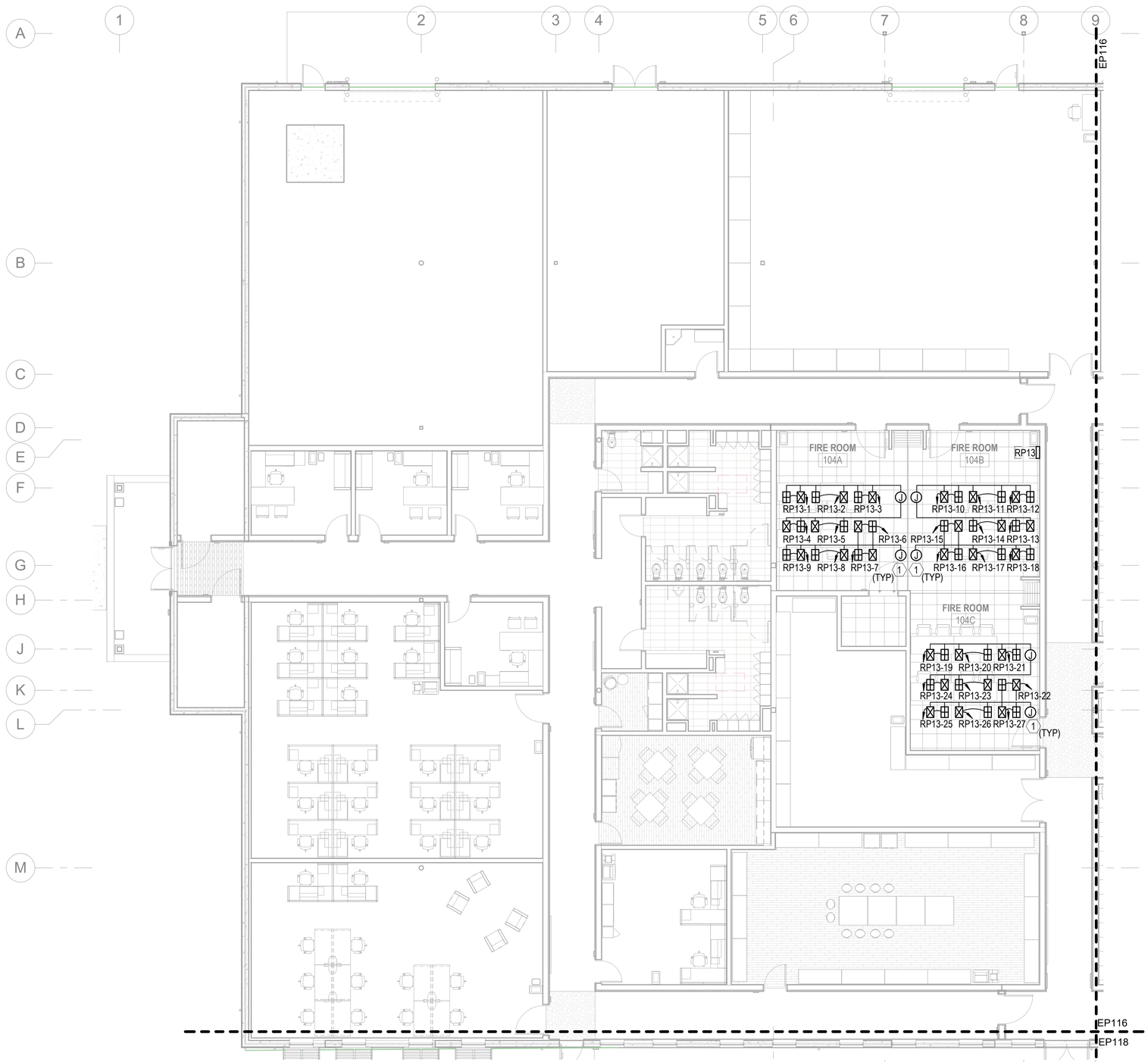


A1 POWER - UNDERFLOOR PLAN - AREA A

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

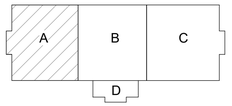
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. 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. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS. FOR MORE INFORMATION SEE DETAILS ON SHEETS E-502 AND E-503.

KEYPLAN



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

N

SYM	DESCRIPTION	DATE	APVR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SO | DRW UK | CHK YPS
PM / DM: TOWLER / ROOT
BRANCH HEAD: SEK
DESIGN DIRECTOR: PAUL K. SHREM
FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - UNDERFLOOR PLAN - AREA A

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098577
SHEET 346 OF 456

EP115

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

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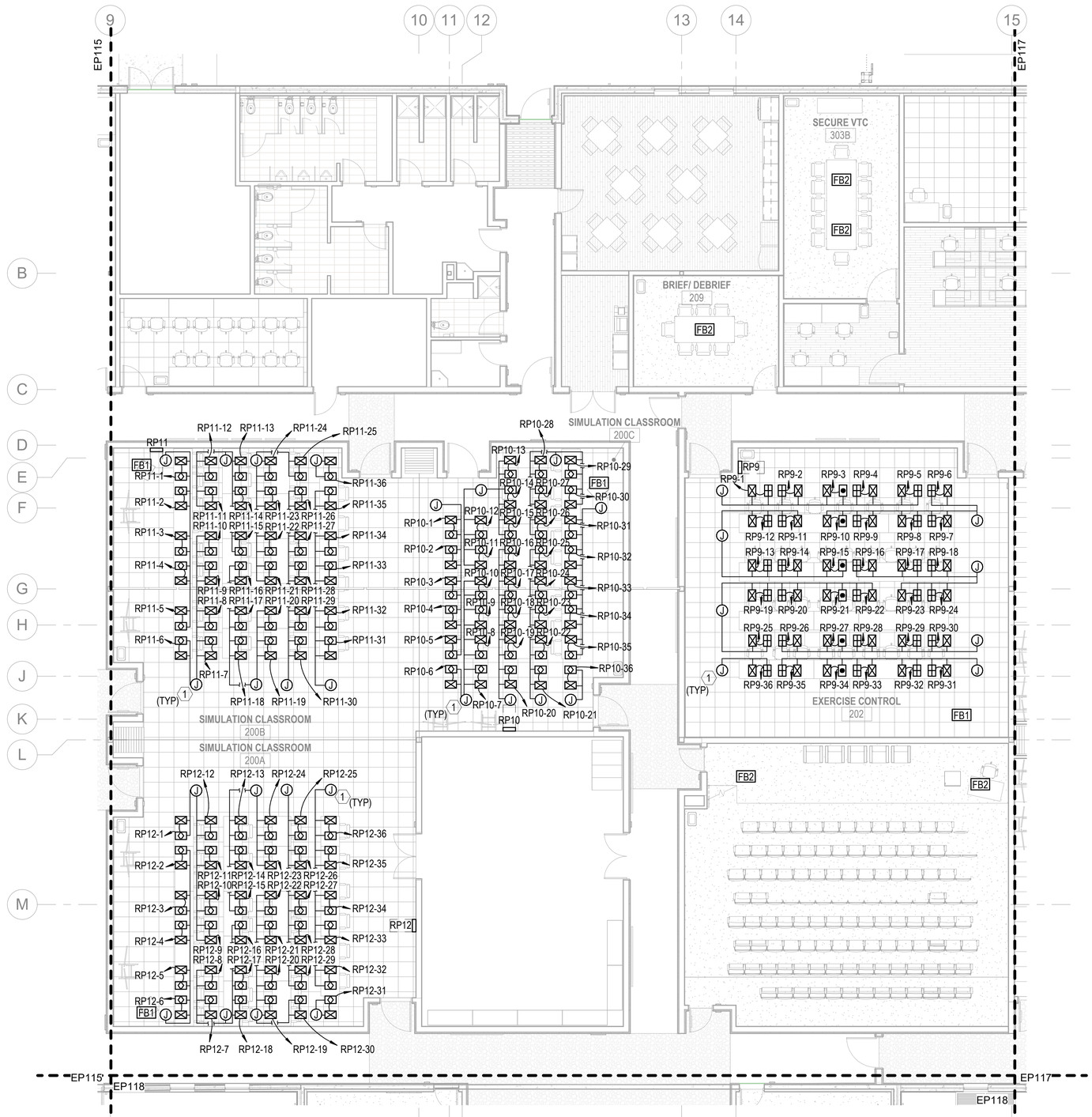


A1 POWER - UNDERFLOOR PLAN - AREA B

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

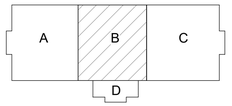
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. 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. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS. FOR MORE INFORMATION SEE DETAILS ON SHEETS E-502 AND E-503.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

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

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY CONCURRED BY MCB-CL AMB VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW UK | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - UNDERFLOOR PLAN - AREA B

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO. 14098578

SHEET 347 OF 456

EP116

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:58:54 PM

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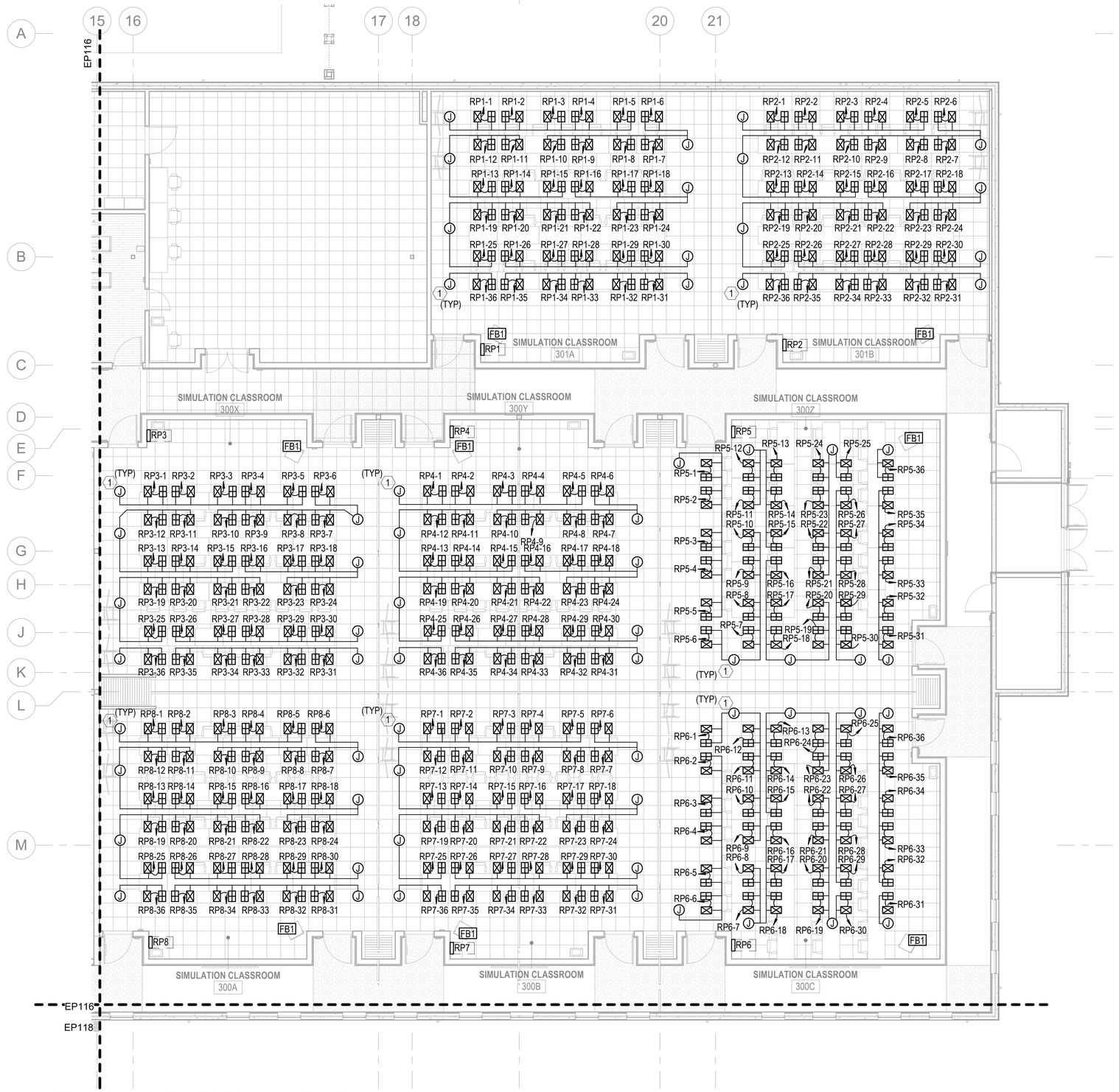


A1 POWER - UNDERFLOOR PLAN - AREA C

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

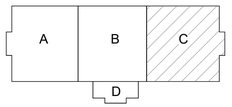
GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. 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. PROVIDE PER MANUFACTURER'S RECOMMENDATIONS. FOR MORE INFORMATION SEE DETAILS ON SHEETS E-502 AND E-503.

KEYPLAN



0 4'-0" 8'-0" 16'-0"

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

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES BY | DRW LAK | CHK TPS

PM / DM: TOWLER / ROOT

BRANCH HEAD: SEK

DESIGN DIRECTOR: PAUL K. SHREM

FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NORFOLK, VA.
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - UNDERFLOOR PLAN - AREA C

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO. 14098579

SHEET 348 OF 456

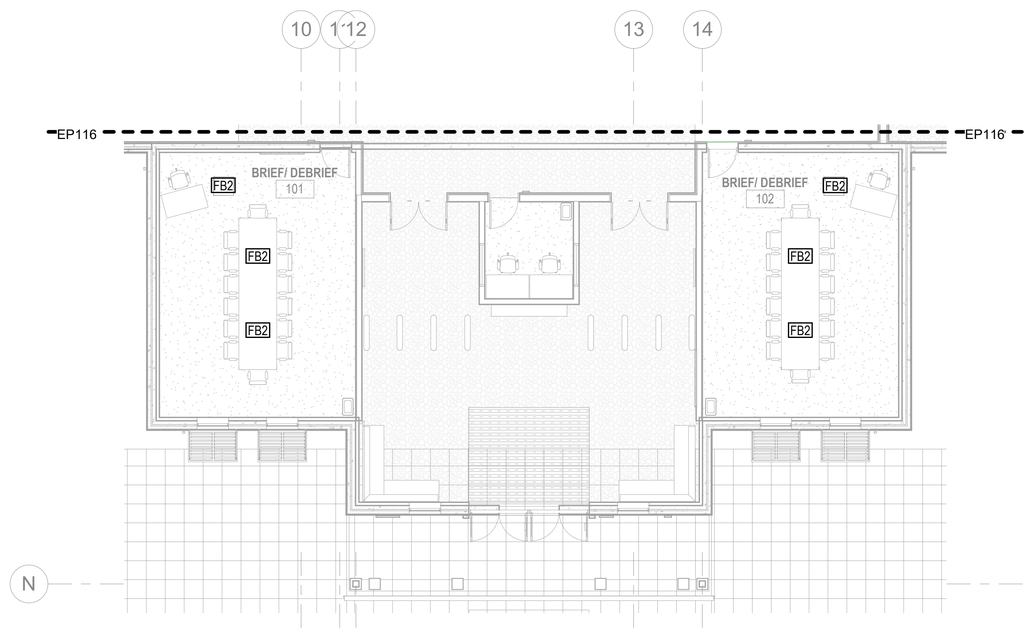
EP117

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:59:04 PM

FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



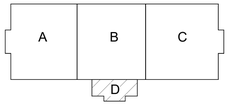
A1 POWER - UNDERFLOOR PLAN - AREA D

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

GENERAL NOTES

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

KEYPLAN



0 4'-0" 8'-0" 16'-0"

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

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW UK | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS.

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
POWER - UNDERFLOOR PLAN - AREA D

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO.
14098580

SHEET 349 OF 456

EP118

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:59:07 PM

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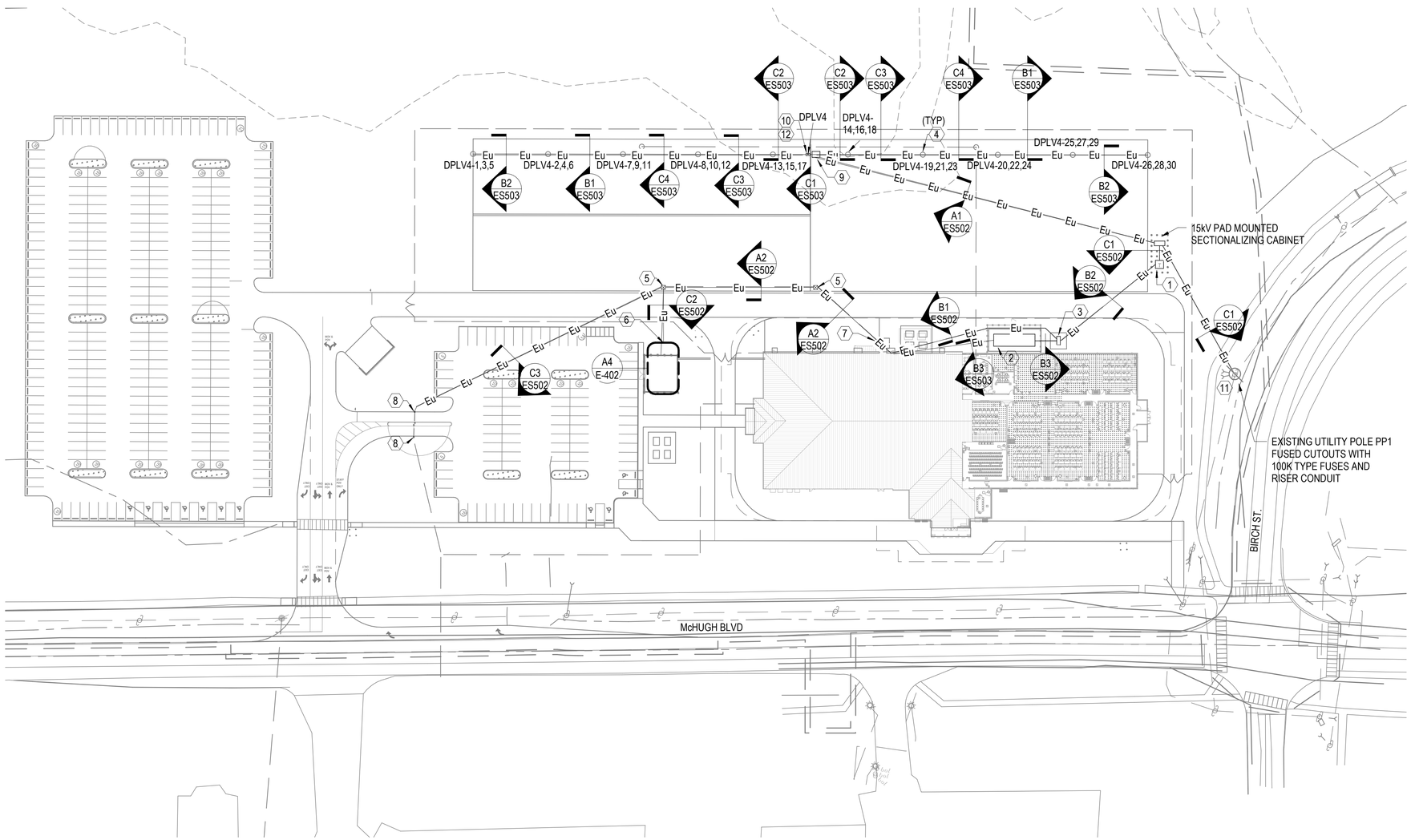


ELECTRICAL - SITE UTILITY PLAN

SCALE: 1" = 60'-0"

GENERAL NOTES

1. SEE SHEET E-001 FOR ELECTRICAL NOTES, SYMBOLS, AND ABBREVIATIONS.
2. DEPTH OF DUCTBANKS MUST BE COORDINATED WITH OTHER UTILITIES.
3. COORDINATE DUCTBANK RUNS WITH OTHER TRADES, REFER TO CIVIL PLANS. ADJUST DEPTH AT CROSSINGS TO AVOID CONFLICTS.

KEYNOTES

1. 12.47kV-480Y/277V, 3PH, 4W, 60Hz, OIL FILLED UTILITY TRANSFORMER, OVER A PRECAST TRANSFORMER PAD. FOR ADDITIONAL INFORMATION SEE DRAWING E-602.
2. 480Y/277V, DIESEL GENERATOR WITH SUBBASE FUEL TANK AND CONCRETE PAD. FOR ADDITIONAL INFORMATION SEE DRAWINGS E-502 / E-602.
3. AUTOMATIC TRANSFER SWITCH EQUIPPED WITH MAINTENANCE BYPASS SWITCH. FOR ADDITIONAL INFORMATION SEE DRAWING E-602.
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 RATED HANDHOLE FOR POWER. COORDINATE HANDHOLE LOCATIONS WITH FINAL POWER LOCATIONS. SEE DETAIL UG-5 ON ES505.
6. 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. 225KVA, 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 DRAWING E-602.
10. 800A, NEMA 4X STAINLESS STEEL, 208/120V DISTRIBUTION PANELBOARD FOR POWER PEDESTAL CONNECTIONS.
11. SEE NAVFAC STANDARD OVERHEAD TEMPLATES ON SHEET ES504.
12. PROVIDE (2) 2" CONDUITS AT THE DPLV4 CONCRETE PAD FOR FUTURE CONNECTIONS. THEY MUST BE CAPPED FOR FUTURE USE.

0 30'-0" 60'-0" 120'-0"
SCALE: 0'-1" = 60'-0"

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY ~A JOINT VENTURE~

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW LK | CHK YPS

PM / DM TOWLER / ROOT

BRANCH HEAD SEK

DESIGN DIRECTOR PAUL K. SHREM

FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE UTILITY PLAN

SCALE: AS NOTED
EPROJECT NO.: 15908892
CONSTR. CONTR. NO.
N40085-20-C-0059
NAVFAC DRAWING NO.
14098553
SHEET 322 OF 456

ES101

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:59:18 PM

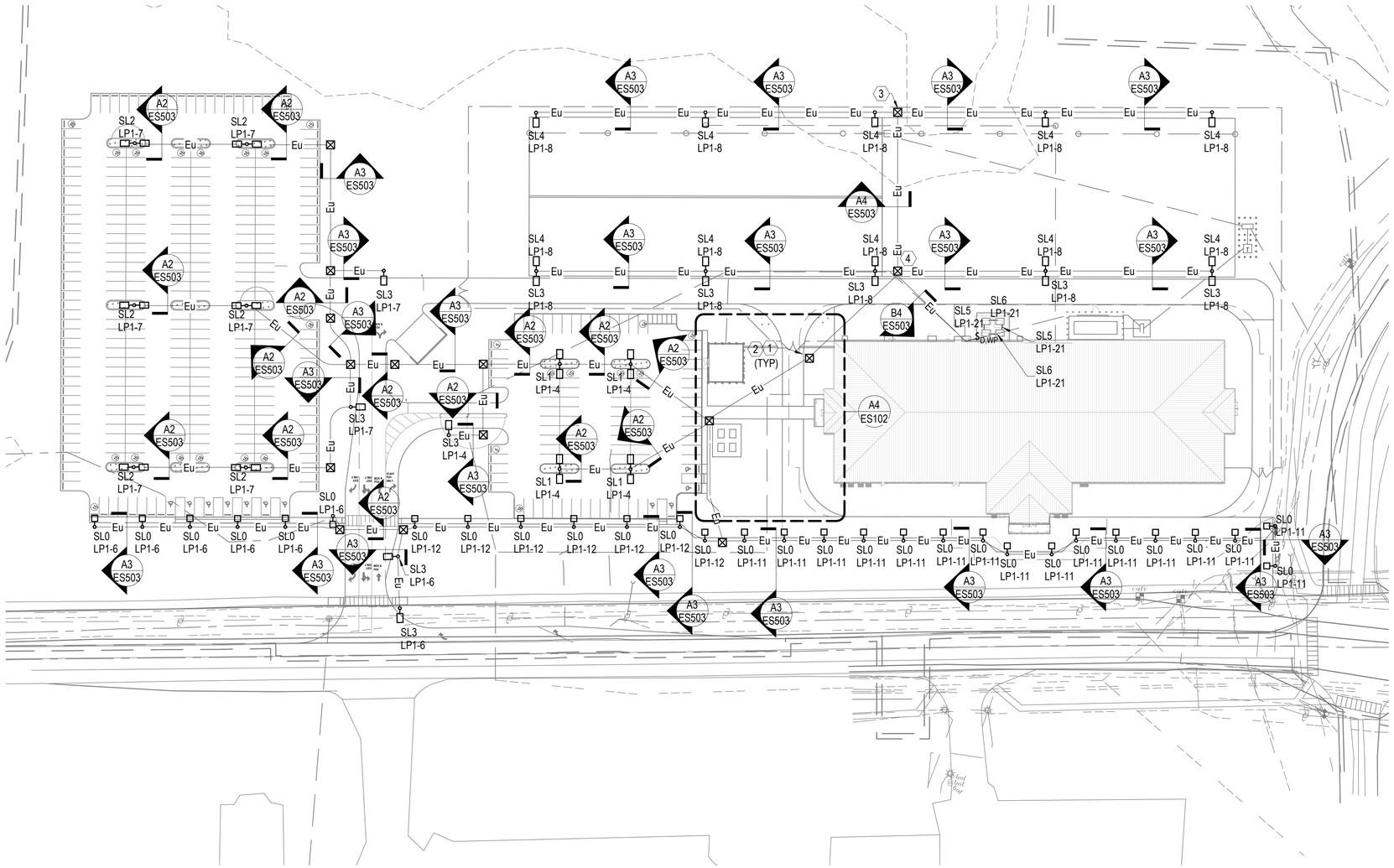
FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

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 MUST BE CONCRETE ENCASED.
4. PROVIDE BUILDING MOUNTED CENTRALIZED PHOTOCELL FOR SITE LIGHTING ON TRUE NORTH SIDE OF BUILDING.
5. COORDINATE DUCTBANK RUNS WITH OTHER TRADES, REFER TO CIVIL PLANS. ADJUST DEPTH AT CROSSINGS TO AVOID CONFLICTS.

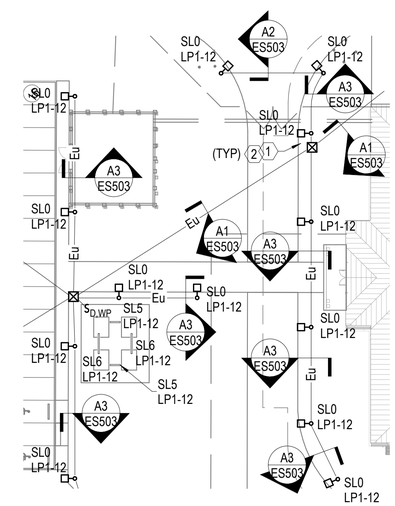
KEYNOTES

1. SITE LIGHTING HAND HOLE, SIZE PER NEC.
2. TYPE 3 TRAFFIC HANDHOLE FOR SITE LIGHTING. COORDINATE HANDHOLE LOCATIONS WITH FINAL SITE LIGHTING LOCATIONS. SEE DETAIL UG-5 ON ES505.
3. STUB UP 1" CONDUIT AT TRANSFORMER PAD FOR ELECTRICAL METER CONNECTION.
4. TYPE 4 TRAFFIC RATED HANDHOLE FOR POWER. COORDINATE HANDHOLE LOCATIONS WITH FINAL POWER LOCATIONS. SEE DETAIL UG-5 ON ES505.



ELECTRICAL - SITE LIGHTING PLAN

SCALE: 1" = 60'-0"



A4 ELECTRICAL - SITE LIGHTING PLAN

SCALE: 1" = 30'-0" (ES102)

0 30'-0" 60'-0" 120'-0"

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

N

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SD | DRW LAK | CHK YPS

PM / DM: TOWLER / ROOT

BRANCH HEAD: SEK

DESIGN DIRECTOR: PAUL K. SHREM

FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
MCB CAMP LEJEUNE

NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA

JACKSONVILLE, NC

P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT

ELECTRICAL - SITE LIGHTING PLAN

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO. 14098554

SHEET 323 OF 456

ES102

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:59:31 PM

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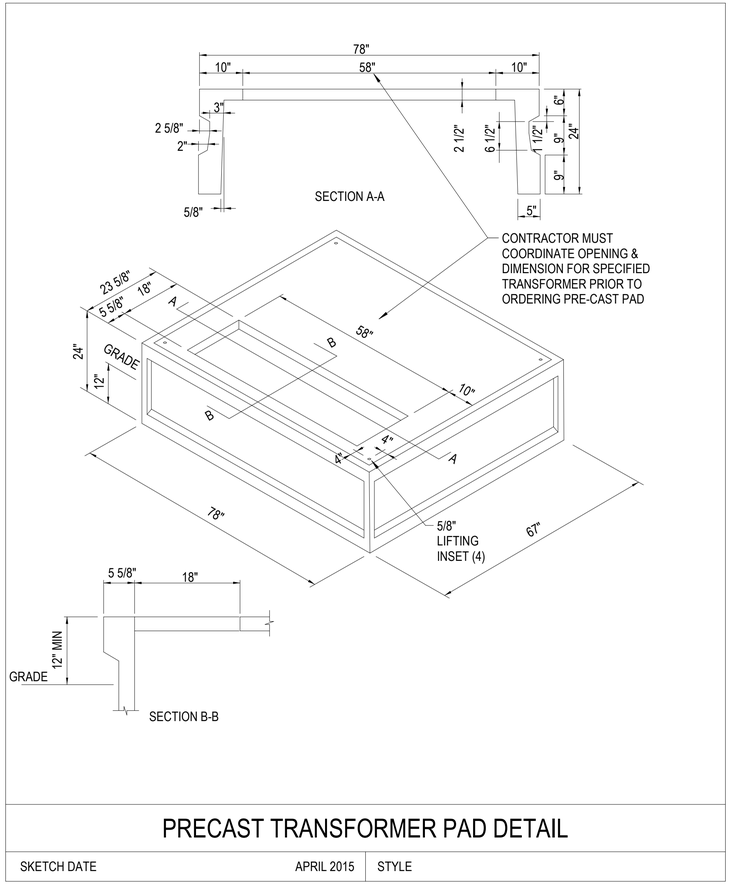
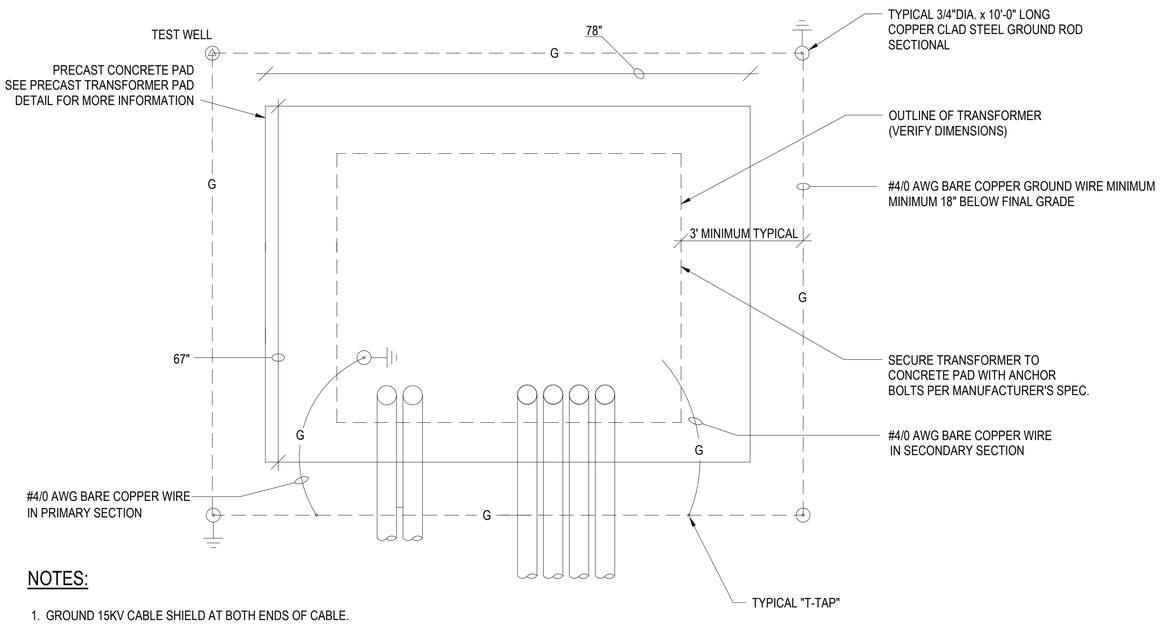


PRECAST TRANSFORMER PAD DETAIL

SKETCH DATE	APRIL 2015	STYLE

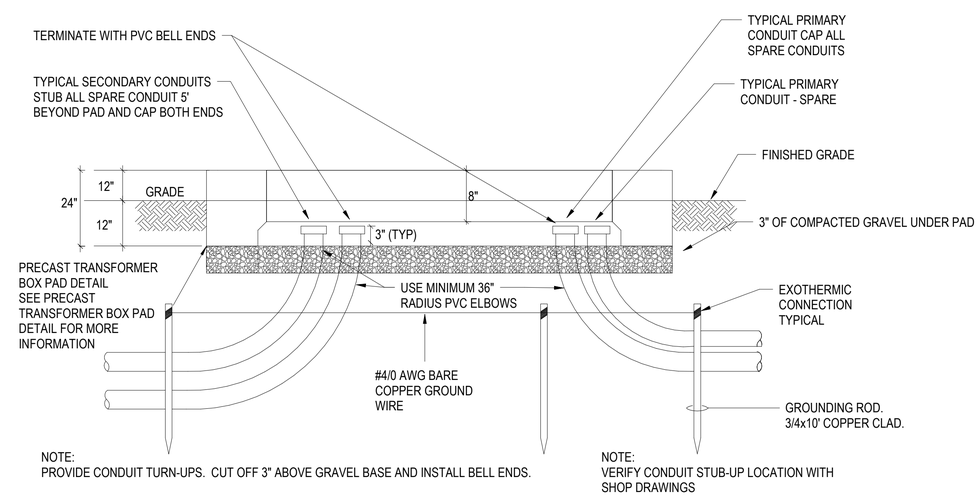


NOTES:

1. GROUND 15KV CABLE SHIELD AT BOTH ENDS OF CABLE.
2. FINAL CONNECTIONS TO EXISTING PRIMARY SYSTEM MUST BE MADE BY CONTRACTOR AFTER INSPECTION BY THE BASE EXTERIOR ELECTRICAL SHOP. MATERIALS REQUIRED MUST BE PROVIDED BY CONTRACTOR.
3. PROVIDE WINDOWS IN PAD PER TRANSFORMER MANUFACTURER'S RECOMMENDATIONS.

C3 PRECAST TRANSFORMER PAD GROUNDING DETAIL

SCALE: 12" = 1'-0"

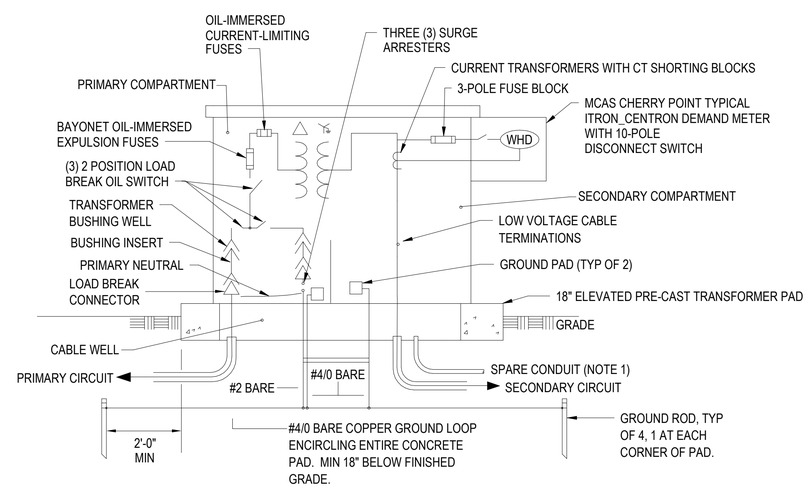


NOTE:
PROVIDE CONDUIT TURN-UPS. CUT OFF 3" ABOVE GRAVEL BASE AND INSTALL BELL ENDS.

NOTE:
VERIFY CONDUIT STUB-UP LOCATION WITH SHOP DRAWINGS

A1 PRECAST TRANSFORMER PAD GROUNDING SECTION

SCALE: NTS



NOTE 1: PROVIDE ONE 2" SPARE CONDUIT STUBBED-OUT FIVE FEET FROM PAD.
COORDINATE WITH ACTIVITY FOR ADDITIONAL METERING INPUT (GAS, STEAM OR WATER SYSTEMS).

A3 PAD MOUNTED TRANSFORMER DETAIL

SCALE: 12" = 1'-0"

MARK	DATE	DESCRIPTION	INITIALS

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY CONCURRED BY MCB-CL AMB VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SO | DRW UK | CHK YPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098555
SHEET 324 OF 456

ES501

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:59:32 PM

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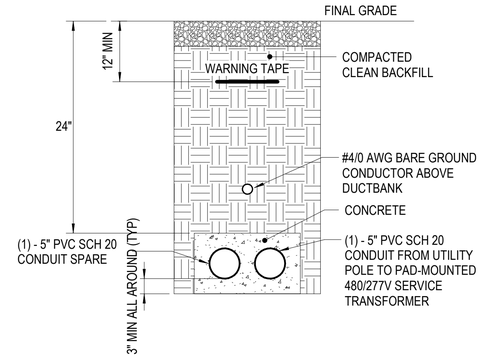
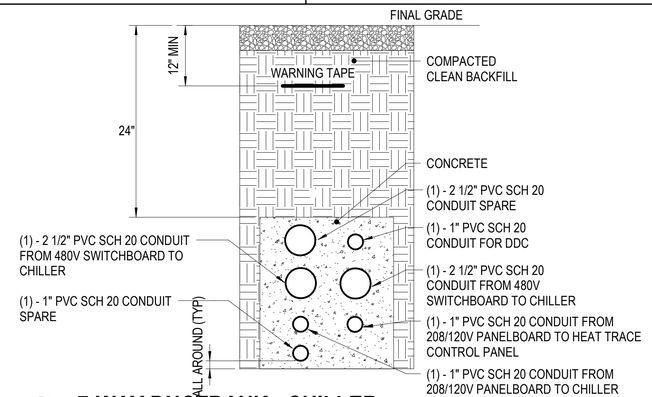


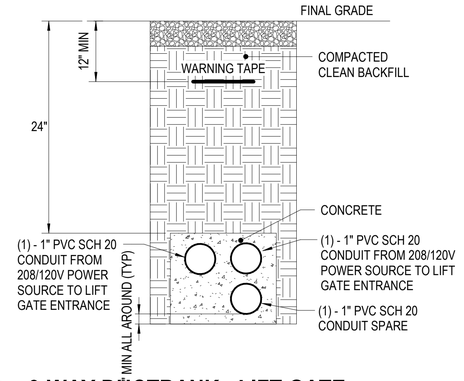
C1 2-WAY CONCRETE ENCASED DUCTBANK

SCALE: NTS (ES101)



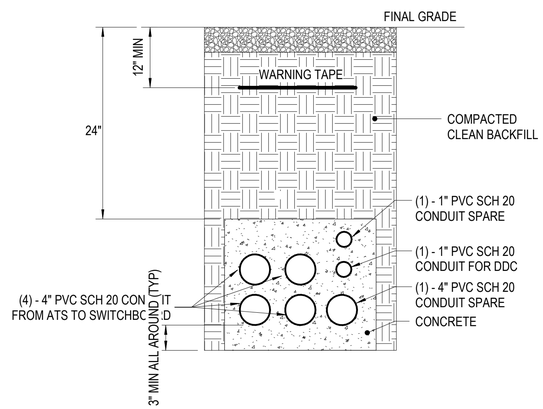
C2 7-WAY DUCTBANK - CHILLER

SCALE: NTS (ES101)



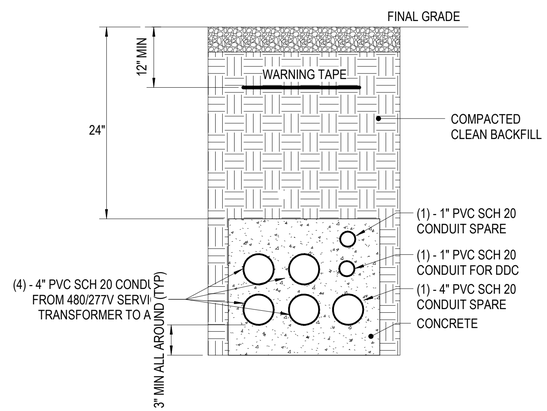
C3 3-WAY DUCTBANK - LIFT GATE

SCALE: NTS (ES101)



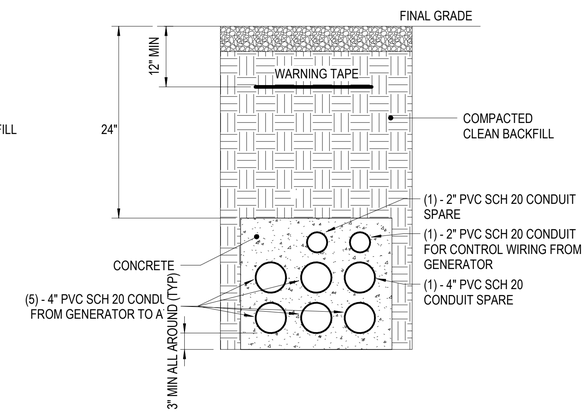
B1 7-WAY DUCTBANK

SCALE: NTS (ES101)



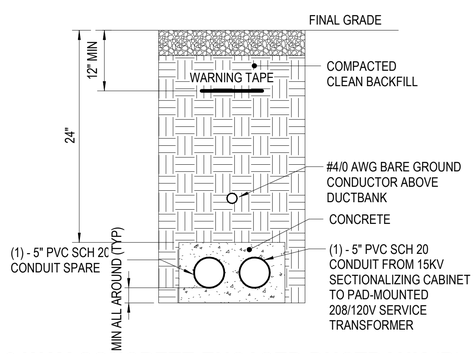
B2 7-WAY DUCTBANK (A)

SCALE: NTS (ES101)



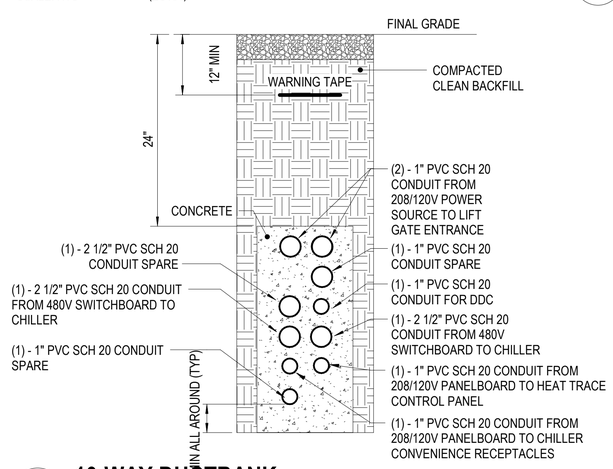
B3 8-WAY DUCTBANK - GENERATOR

SCALE: NTS (ES101)



A1 2-WAY CONCRETE ENCASED DUCTBANK (B)

SCALE: 1 : 15 (ES101)



A2 10-WAY DUCTBANK

SCALE: 1 : 15 (ES101)

MARK	DATE	DESCRIPTION	SYM

NAVFAC

COMMONWEALTH OF MASSACHUSETTS — SENOL DURUR — ELECTRICAL — No. 47946 — REGISTERED PROFESSIONAL ENGINEER

RQ — W.M. Jordan COMPANY — A JOINT VENTURE

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SD | DRW LW | CHK YPS

PM / DM: TOWLER / ROOT

BRANCH HEAD: SEK

DESIGN DIRECTOR: PAUL K. SHREM

FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO. 14098556

SHEET 325 OF 456

ES502

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:59:33 PM

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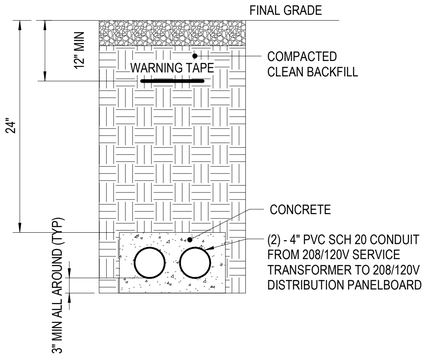
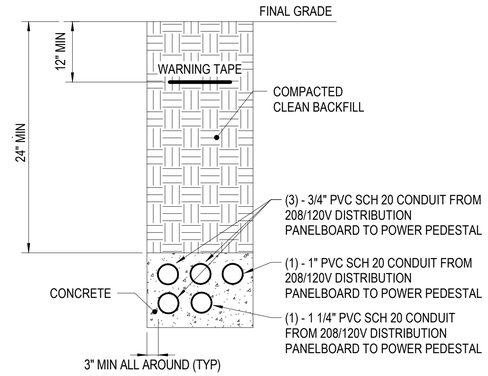


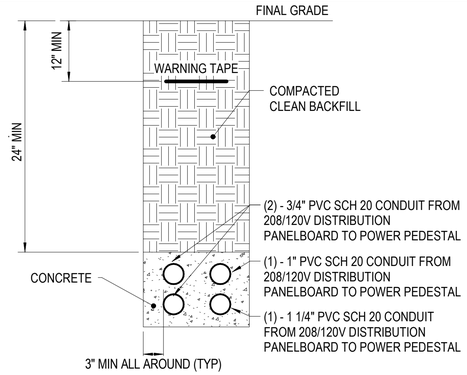
C1 2-WAY DUCTBANK (A)

SCALE: NTS (ES101)



C2 5-WAY DUCTBANK - PEDESTAL

SCALE: NTS (ES101)



C3 4-WAY DUCTBANK - PEDESTAL

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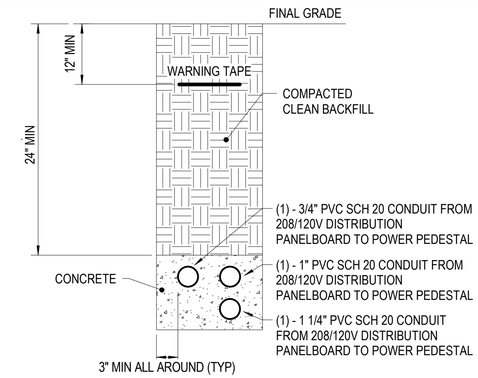
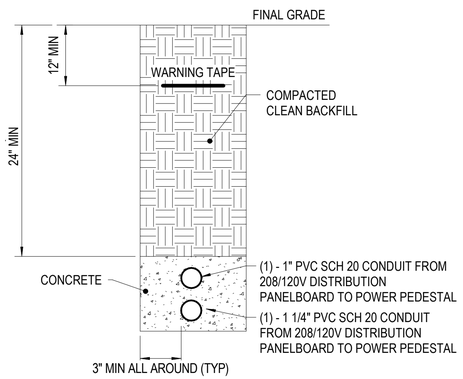


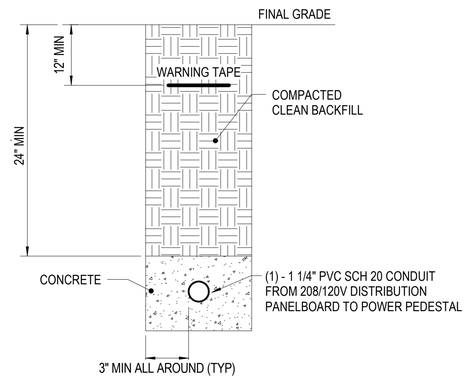
C4 3-WAY DUCTBANK - PEDESTAL

SCALE: NTS (ES101)



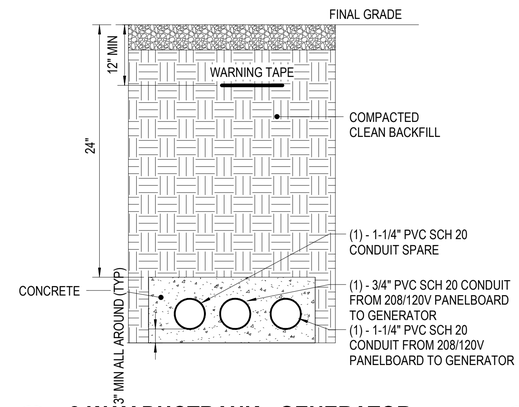
B1 2-WAY DUCTBANK - PEDESTAL

SCALE: NTS (ES101)



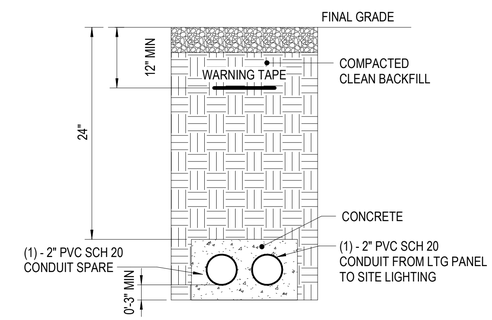
B2 1-WAY DUCTBANK - PEDESTAL

SCALE: NTS (ES101)



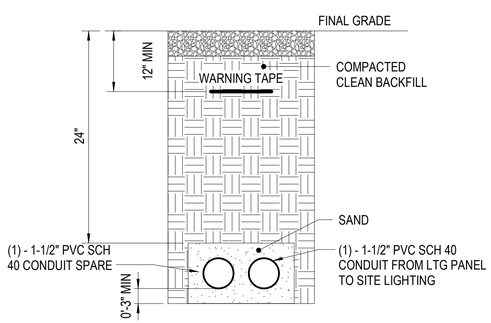
B3 2-WAY DUCTBANK - GENERATOR

SCALE: 1 : 15 (ES101)



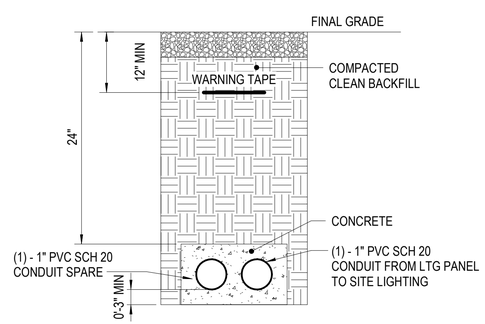
B4 2-WAY CONCRETE ENCASED DUCTBANK - SITE LTG (B)

SCALE: NTS (ES102)



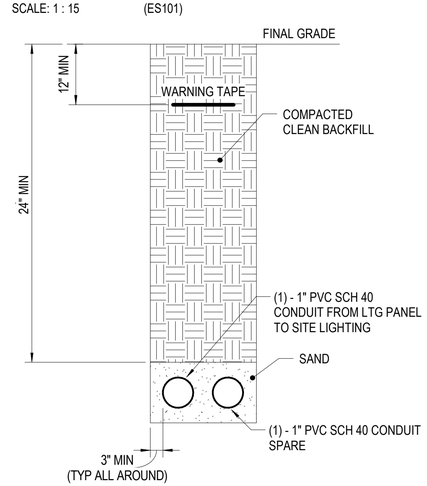
A1 2-WAY DUCTBANK - SITE LIGHTING

SCALE: NTS (ES102)



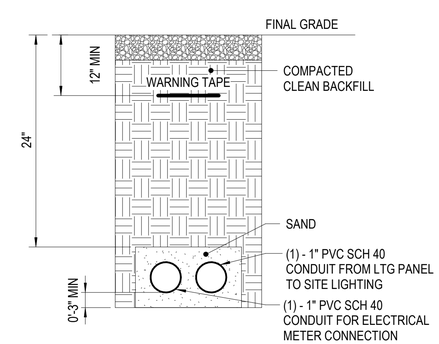
A2 2-WAY CONCRETE ENCASED DUCTBANK - SITE LTG (A)

SCALE: NTS (ES102)



A3 2-WAY DUCTBANK - SITE LIGHTING (A)

SCALE: NTS (ES102)



A4 2-WAY DUCTBANK - SITE LIGHTING (B)

SCALE: NTS (ES102)

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS — SENOL DURUR ELECTRICAL No. 47946 — REGISTERED PROFESSIONAL ENGINEER

RQ / W.M. Jordan COMPANY — A JOINT VENTURE

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED
FOR COMMANDER NAVFAC
ACTIVITY
CONCURRED BY
MCB-CL AMB
VIA EMAIL
SATISFACTORY TO DATE 12/16/21
DES SO | DRW LAK | CHK YPS
PM / DM TOWLER / ROOT
BRANCH HEAD SEK
DESIGN DIRECTOR PAUL K. SHREM
FIRE PROTECTION DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
ATLANTIC DESIGN AND CONSTRUCTION
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE DETAILS

SCALE: AS NOTED
EPROJECT NO.: 1590892
CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098557
SHEET 326 OF 456

ES503

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:59:35 PM

FILE NAME: BIM 360://IHF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt

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) T0 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

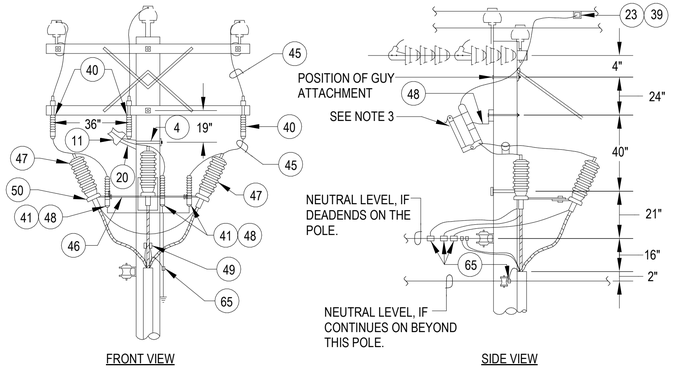
SKETCH DATE:	JUNE 2002	STYLE:	OH-1.5

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

POLE LINE MATERIAL LIST

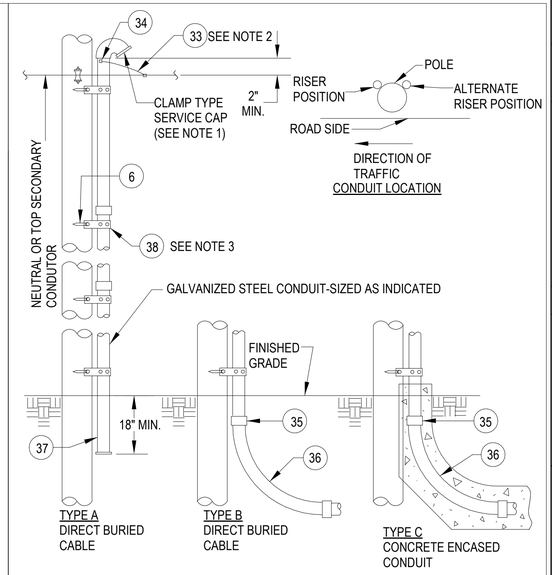
SKETCH DATE:	JUNE 2002	STYLE:	OH1.5A



NOTES
1. MODIFY POSITION OF TERMINAL ON DEADENDS UNDER THE CONDUCTORS AND THE CUTOUTS ON THE BACKSIDE OF CROSSARM. POLE RISER MUST BE OFFSET TO CLEAR NEUTRAL CLEVIS BRACKET.
2. CONNECT BOTTOM LEAD OF ARRESTER DIRECTLY TO POLE GROUND. INTERCONNECT CABLE INSULATION SHIELD DRAIN WIRES AND CONDUIT RISER GROUND TO MULTI-GROUNDED NEUTRAL (IF EXISTING) AND POLE GROUND.
3. PROVIDE GANG OPERATED ISOLATION SWITCH. COORDINATE WITH SPECIFIC DESIGN REQUIREMENTS PROVIDED.

U.G. TERMINAL (0-25kV)

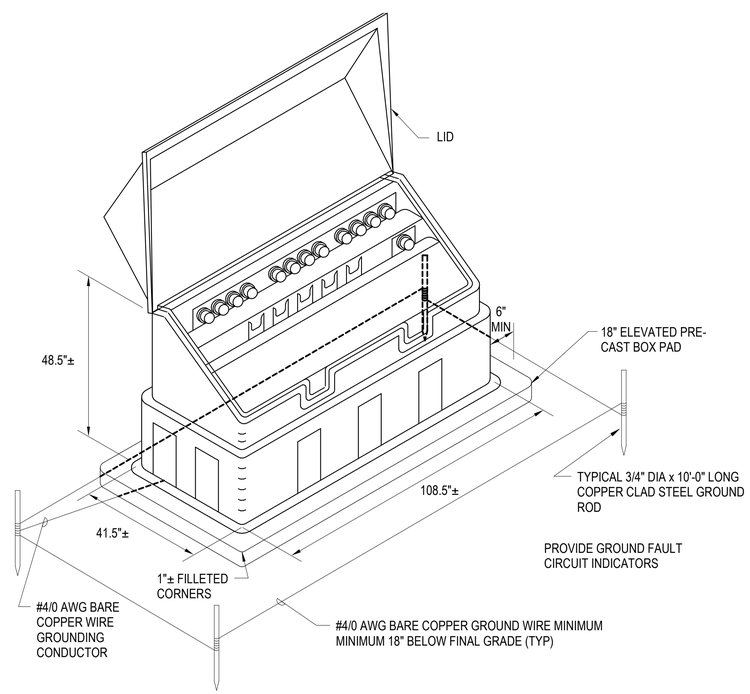
SKETCH DATE:	JUNE 2002	STYLE:	OH-31



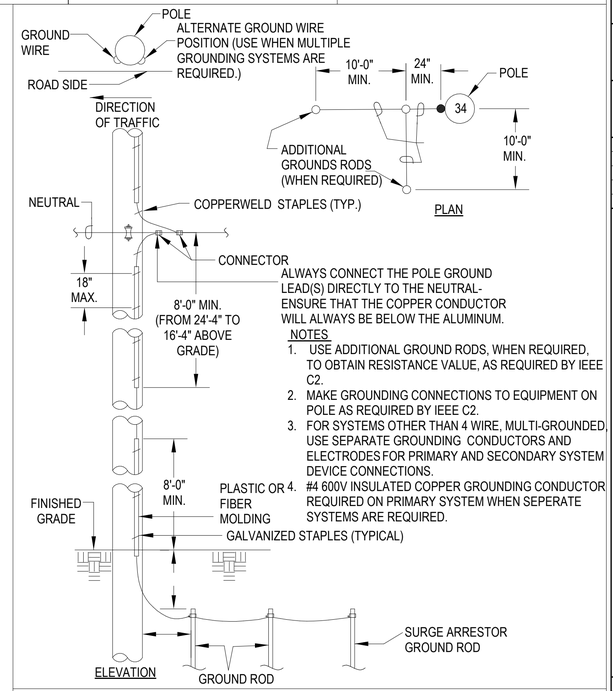
NOTES
1. ON CONDUIT RISER FOR PRIMARY CIRCUITS, ELIMINATE SERVICE CAP AND PROVIDE GROUNDING TYPE INSULATON BUSHING.
2. BOND CONDUIT TO POLE GROUND AND SYSTEM NEUTRAL (IF EXISTING). SEE GROUNDING NOTES ON SKETCH OH-41.
3. SPACE STRAPS AT MAXIMUM OF 4' INTERVALS.

CONDUIT RISER (SIZE & TYPE AS INDICATED)

SKETCH DATE:	JUNE 2002	STYLE:	OH-35



A2 TYPICAL SECTIONALIZING CABINET
SCALE: NTS



ALWAYS CONNECT THE POLE GROUND LEAD(S) DIRECTLY TO THE NEUTRAL-ENSURE THAT THE COPPER CONDUCTOR WILL ALWAYS BE BELOW THE ALUMINUM.

NOTES.
1. USE ADDITIONAL GROUND RODS, WHEN REQUIRED, TO OBTAIN RESISTANCE VALUE, AS REQUIRED BY IEEE C2.
2. MAKE GROUNDING CONNECTIONS TO EQUIPMENT ON POLE AS REQUIRED BY IEEE C2.
3. FOR SYSTEMS OTHER THAN 4 WIRE, MULTI-GROUNDED, USE SEPARATE GROUNDING CONDUCTORS AND ELECTRODES FOR PRIMARY AND SECONDARY SYSTEM DEVICE CONNECTIONS.
#4 600V INSULATED COPPER GROUNDING CONDUCTOR REQUIRED ON PRIMARY SYSTEM WHEN SEPERATE SYSTEMS ARE REQUIRED.

GROUND

SKETCH DATE:	JUNE 2002	STYLE:	OH-41

MARK	DATE	DESCRIPTION	SYM

NAVFAC

COMMONWEALTH OF MASSACHUSETTS — SENOL DURUR ELECTRICAL No. 47946 — REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY — A JOINT VENTURE —

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
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DES SO | DRW UK | CHK YPS
PM / DM: TOWLER / ROOT
BRANCH HEAD: SEK
DESIGN DIRECTOR: PAUL K. SHREM
FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
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ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC NORFOLK, VA
MCB CAMP LEJEUNE JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER REPLACEMENT
ELECTRICAL - SITE DETAILS

SCALE: AS NOTED
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CONSTR. CONTR. NO. N40085-20-C-0059
NAVFAC DRAWING NO. 14098558
SHEET 327 OF 456

ES504

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

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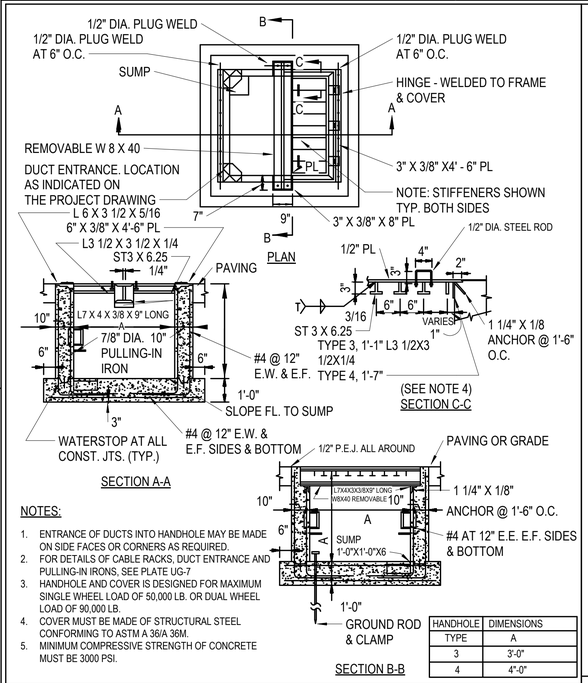
FILE NAME: BIM 360://HF PACKAGE 3/P1338 MEF SIM CTR-1590892-E.rvt



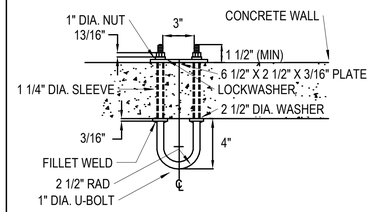
NOTES:

1. ENTRANCE OF DUCTS INTO HANDHOLE MAY BE MADE ON SIDE FACES OR CORNERS AS REQUIRED.
2. FOR DETAILS OF CABLE RACKS, DUCT ENTRANCE AND PULLING-IN IRONS, SEE PLATE UG-7
3. HANDHOLE AND COVER IS DESIGNED FOR MAXIMUM SINGLE WHEEL LOAD OF 50,000 LB. OR DUAL WHEEL LOAD OF 90,000 LB.
4. COVER MUST BE MADE OF STRUCTURAL STEEL CONFORMING TO ASTM A 36/A 36M.
5. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MUST BE 3000 PSI.

HANDHOLE TYPE	DIMENSIONS A
3	3'-0"
4	4"-0"

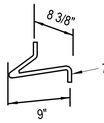
STANDARD ELECTRICAL HANDHOLE (TRAFFIC/AIRFIELD) TYPES 3 & 4

SKETCH DATE: JUNE 2002 | STYLE: UG - 5



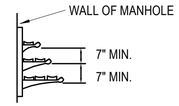
ALTERNATE METHOD

DETAIL OF PULLING-IN IRON

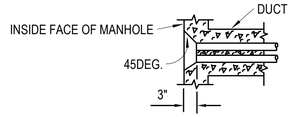


CAST IN PLACE

NOTE:
METAL PARTS MUST BE HOT DIP GALVANIZED



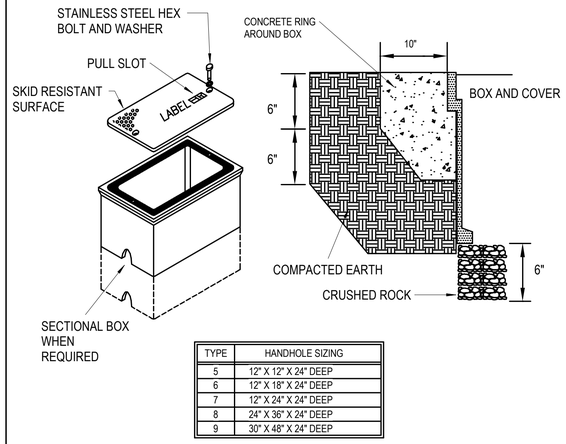
TYPICAL CABLE RACK



TYPICAL DUCT ENTRANCE

DETAILS (PULLING-IN IRONS, CABLE RACK AND DUCT ENTRANCE)

SKETCH DATE: JUNE 2002 | STYLE: UG - 7



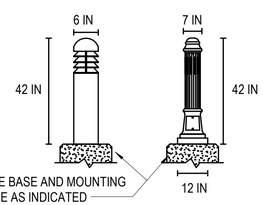
TYPE	HANDHOLE SIZING
5	12" X 12" X 24" DEEP
6	12" X 18" X 24" DEEP
7	12" X 24" X 24" DEEP
8	24" X 36" X 24" DEEP
9	30" X 48" X 24" DEEP

HANDHOLE REQUIREMENTS

1. HOUSING MUST BE A POLYMER CONCRETE REINFORCED WITH A HEAVY WEAVE FIBERGLASS REINFORCING WITH COMPRESSIVE STRENGTH OF NO LESS THAN 10,000 PSI.
2. COVER AND BOX MUST WITHSTAND A SERVICE LOAD OF NO LESS THAN 15,000 LBS OVER A 10" X 10" AREA.
3. PROVIDE STAINLESS STEEL BOLTS AND INSERTS.
4. PROVIDE WITH (2) 2 1/2" MOUSEHOLES.
5. PROVIDE LABEL "ELECTRICAL" FOR POWER HANDHOLES OR "TELEPHONE" FOR TELEPHONE HEANDHOLES, OR AS INDICATED

STANDARD ELECTRICAL HANDHOLE (NONTRAFFIC)(COMPOSITE/FIBERGLASS) TYPES 5, 6, 7, 8, & 9

SKETCH DATE: JUNE 2002 | STYLE: UG - 6

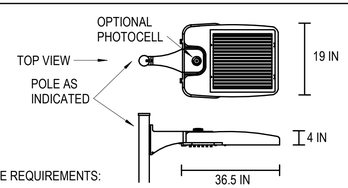


LUMINAIRE REQUIREMENTS: CONCRETE BASE AND MOUNTING HARDWARE AS INDICATED

1. HOUSING - EXTRUDED OR HEAVY- DUTY DIE-CAST ALUMINUM; CONCRETE OPTIONAL. EXPOSED HARDWARE MUST BE STAINLESS STEEL.
2. FINISH - MULTI-STAGE PRE-TREATMENT, FINISHED WITH BAKED-ON POLYESTER POWDER COAT. FINISH MUST PASS 2500 HOUR SALT SPRAY TEST PER ASTM B117. CONCRETE MODEL MUST HAVE OPTIONAL IMPREGNATED COLOR AND SMOOTH OR AGGREGATE FINSIH AS INDICATED.
3. BALLAST/DRIVER - TYPE A - CLASS P, HIGH POWER FACTOR, PROGRAMMED START, ELECTRONIC TYPE FOR COMPACT FLUORESCENT LIGHT SOURCE.
   TYPE B - ENCAPSULATED, CWA, HIGH POWER FACTOR, COIL AND CORE OR ELECTRONIC FOR METAL HALIDE LIGHT SOURCE (PROVIDE PULSE START WHEN AVAILABLE)
   TYPE C - CLASS 1, CONSTANT CURRENT, ELECTRONIC DRIVER FOR LED LIGHT SOURCE
4. OPTICAL ASSEMBLY - TYPES A AND B - ANODIZED, SPECULAR ALUMINUM WIH ACRYLIC OR TEMPERED GLASS LENS FOR METAL HALIDE AND CFL.
   TYPE C - DIRECTIONAL LED ASSEMBLIES FOR MAXIMUM BEAM ANGLE PROJECTION THROUGH LOUVERS OR OPENINGS IN LUMINAIRE BODY. PROVIDE NEMA TYPE I, III, OR V DISTRIBUTION AS INDICATED.
5. LIGHT SOURCE - COMPACT FLUORESCENT, METAL HALIDE OR LED.
6. CERTIFICATION - UL AND/OR ETL LISTED FOR WET LOCATION AND RoHS COMPLIANT.
7. OPTIONS - CLEAR OR FROSTED LENS, HOUSE SIDE SHIELD FOR 90 OR 180 DEGREE COVERAGE.
8. 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 CERYAIN MANUFACTURER'S PREFERENCE. DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

DECORATIVE BOLLARD

REVISED: MARCH 2013 | LUMINAIRE PLATE: XL-12

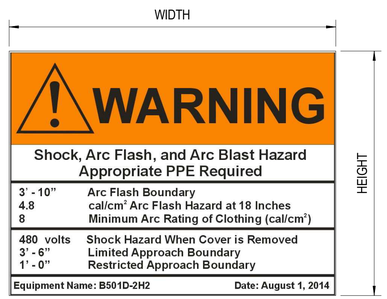


LUMINAIRE REQUIREMENTS:

1. HOUSING - DIE-CAST ALUMINUM OR DIE-CAST AND EXTRUDED ALUMINUM WITH INTEGRAL, SELF CLEANING HEAT SINK FINS, RIBS, OR EQUIVALENT PASSIVE COOLING MECHANISM. HEAT SINK MUST BE INCORPORATED DIRECTLY INTO HOUSING TO ENSURE MAXIMUM HEAT TRANSFER AND DISSIPATION.
2. FINISH - MULTI-STAGE PRE-TREATMENT, FINISHED WITH BAKED-ON POLYESTER POWDER COAT. FINISH MUST PASS 2500 HOUR SALT SPRAY TEST PER ASTM B117 FINISH COLORS INCLUDE DARK BRONZE, SILVER, OR BLACK WITH CUSTOM COLORS AVAILABLE.
3. POWER SUPPLY/LED DRIVER - PROVIDE IN SEPERATE COMPARTMENT ACCESSIBLE WITHOUT THE USE OF HAND TOOLS. CLASS 1 DRIVER MUST OPERATE AT 120/277V, 50/60HZ; OTHER VOLTAGES OPTIONAL. POWER FACTOR GREATER THAN 0.9 AND THD LESS THAN 20% AT FULL LOAD. MINIMUM EFFICACY MUST BE 60 LM/W AT MAXIMUM 60mA OPERATING CURRENT.
4. LED OPTICAL ASSEMBLY - NUMBER OF LED ARRAYS MUST VARY TO ACCOMODATE DESIRED LUMINAIRE OUTPUT. PROVIDE WITH EQUIVALENT NEMA TYPE III, IV OR V DISTRIBUTION AS INDICATED. BUG UPLIGHT RATING OF UO, WITH BACKLIGHT AND GLARE RATINGS AS DETERMINED BY LIGTING ZONE INSTALLED. MINIMUM COLOR RENDERING INDEX (CRI) MUST BE 70 FOR CORRELATED COLOR TEMPERATURE (CCT) OF 4000 K TO 4500 DEGREES K.
5. SURGE PROTECTION - 6 kV MINIMUM, COMPLAINT WITH ANSI C62.41.2.
6. CERTIFICATION - UL AND/OR ETL LISTED, MINIMUM IP65 RATED PER ANSI/IEC 60529, AND RoHS COMPLIANT.
7. OPTIONS - PHOTOCELL AND RECEPTACLE, SHORTING CAP, BIRD SPIKES, AND 0-10 VOLT DIMMING
8. 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. DIMENSIONS ARE NOMINAL AND VARY PER MANUFACTURER.

LED AREA LUMINAIRE

REVISED: MARCH 2013 | LUMINAIRE PLATE: XL-03



NOTES:

1. PROVIDE SELF-ADHESIVE VINYL LABEL TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
2. THE LABEL FORMAT AND TEXT CAN BE MODIFIED PROVIDED THAT THE INFORMATION REQUIRED BY UFC 3-501-01 IS INCLUDED.
3. THE LABEL MUST BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
4. THE SIZE OF THE LABEL MUST BE MINIMUM:

EQUIPMENT TYPE	HEIGHT	WIDTH
INDOOR	2"	3"
OUTDOOR	3"	4.5"

5. A DOWNLOADABLE WINDOWS METAFILE IS AVAILABLE ON THE WHOLE BUILDING DESIGN GUIDE WEBSITE (WWW.WDBG.ORG) FOR USE IN A LABEL MAKING MACHINE.
   A. THE FILE IS LOCATED ON THE "NAVFAC CADD DETAILS" PAGE. TO NAVIGATE TO THIS LOCATION, FOLLOW: HOME > DOCUMENTS & REFERENCES > CCB > CADD LIBRARY > NAVFAC CADD RESOURCES > NAVFAC CADD DETAILS.
   B. ALTERNATIVELY, TYPE IN THE FOLLOWING ADDRESS IN INTERNET EXPLORER: HTTP://WWW.WBDG.ORG/CCB/BROWSE_CAT.PHP?C=232

DETAILED ARC FLASH WARNING LABEL

SKETCH DATE APRIL 2015 | STYLE AF-3

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ W.M. Jordan COMPANY — A JOINT VENTURE —

Michael Baker INTERNATIONAL
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MOON TOWNSHIP, PA 15108
A/E INFO

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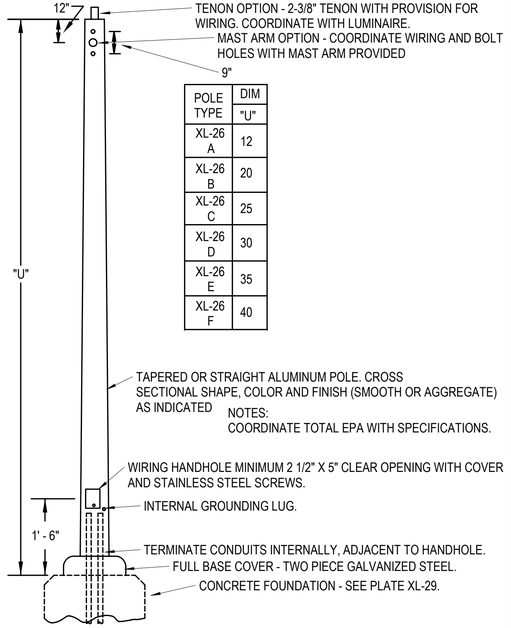
NAVFAC DRAWING NO. 14098559
SHEET 328 OF 456
ES505
DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:59:41 PM

FILE NAME: BIM 360://HF PACKAGE 3P1338 MEF SIM CTR-1590892-E.rvt

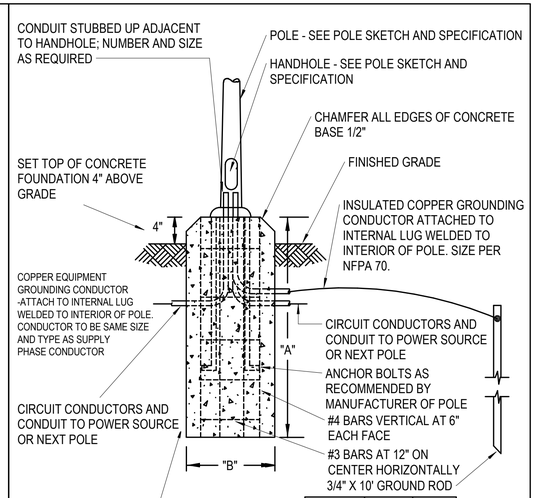


NOTES:
COORDINATE TOTAL EPA WITH SPECIFICATIONS.

POLE TYPE	DIM "U"
XL-26 A	12
XL-26 B	20
XL-26 C	25
XL-26 D	30
XL-26 E	35
XL-26 F	40

ANCHOR BASE ALUMINUM POLE

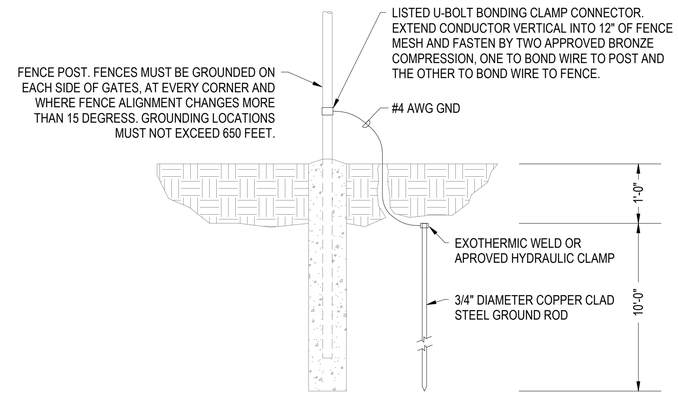
REVISED: MARCH 2013 | LUMINAIRE PLATE: XL - 28



POLE HEIGHT	A	B
8'-12'	36"	12"
13'-20'	42"	16"
21'-30'	72"	24"
31'-40'	78"	30"

ANCHOR BASE POLE FOUNDATION

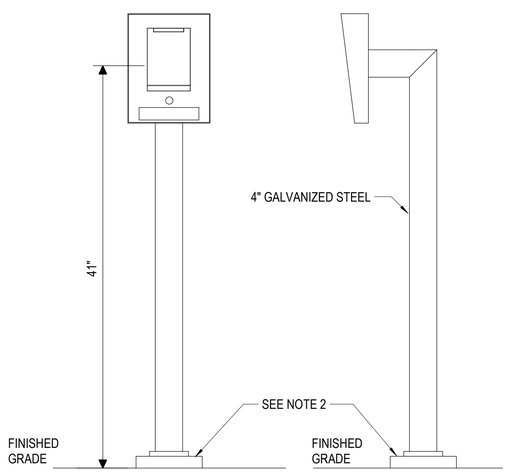
REVISED: MARCH 2013 | LUMINAIRE PLATE: XL - 29



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 MUST BE BONDED TO ITS GATEPOST BY 1 1/8" X 1" FLEXIBLE BRAIDED COPPER STRAP AND GROUND POST CLAMPS.

C4 FENCE GROUNDING DETAIL

SCALE: NTS



NOTES:
1. CONTRACTROR MUST 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.

A1 ACS PEDESTAL SECURITY DETAIL

SCALE: NTS

SYM	DESCRIPTION	DATE	APPR

NAVFAC

COMMONWEALTH OF MASSACHUSETTS
SENOL DURUR
ELECTRICAL
No. 47946
REGISTERED PROFESSIONAL ENGINEER

RQ | W.M. Jordan COMPANY – A JOINT VENTURE –

Michael Baker INTERNATIONAL
100 AIRSIDE DRIVE
MOON TOWNSHIP, PA 15108
A/E INFO

APPROVED

FOR COMMANDER NAVFAC

ACTIVITY: CONCURRED BY MCB-CL AMB VIA EMAIL

SATISFACTORY TO DATE 12/16/21

DES SO | DRW UK | CHK YPS

PM / DM: TOWLER / ROOT

BRANCH HEAD: SEK

DESIGN DIRECTOR: PAUL K. SHREM

FIRE PROTECTION: DPS

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND
ATLANTIC DESIGN AND CONSTRUCTION
NAVAL FACILITIES ENGINEERING SYSTEMS COMMAND ATLANTIC
NORFOLK, VA
MCB CAMP LEJEUNE
JACKSONVILLE, NC
P1338 II MEF SIMULATION/TRAINING CENTER
REPLACEMENT
ELECTRICAL - SITE DETAILS

SCALE: AS NOTED

EPROJECT NO.: 1590892

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

NAVFAC DRAWING NO. 14098560

SHEET 329 OF 456

ES506

DRAWFORM REVISION: 25 AUGUST 2020

ISSUED FOR CONSTRUCTION - 16 DEC 21

PLOTTED: 11/22/2021 3:59:42 PM

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