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Columbia Warehouses
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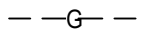
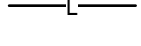
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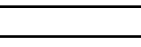
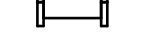
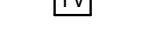
SECURITY

	CARD READER. PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING AND 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
	ALARM CONTACT.
	POWER TRANSFER HINGE.
	BUILT-IN REQUEST TO EXIT.
	CAMERA BY PROVIDED BY OWNER.
	DOOR TAG REFER TO ARCHITECTURAL DRAWINGS FOR DOOR HARDWARE SCHEDULE AND REQUIREMENTS.

GROUNDING & LIGHTNING PROTECTION

	AWG BARE COPPER UNDERGROUND GROUNDING COUNTERPOISE.
	CLASS 1 ALUMINUM EXPOSED LIGHTNING PROTECTION SYSTEM CONDUCTOR.
	3/4"x20"-0" COPPER CLAD GROUND ROD, (2) 10' SECTIONS.
	GROUND TEST WELL.
	AIR TERMINAL.
	THROUGH ROOF PENETRATION.
	GROUND BAR ASSEMBLY.
	EXOTHERMIC WELDED CONNECTION.

SYSTEMS

	UNDERGROUND COMMUNICATIONS.
	COMMUNICATIONS VOICE/DATA OUTLET.
	ANALOG WALL PHONE OUTLET. MOUNT AT 48" AFF.
	12"x4" LADDER TYPE CABLETRAY. MOUNT CABLETRAY AT 8'-3" AFF TO CENTER OF TRAY, UNLESS OTHERWISE NOTED.
	COMM RACK WITH VERTICAL WIRE MANAGERS PROVIDED BY OWNER.
	4'x8'x3/4" FIRE RETARDANT PLYWOOD BACKBOARD.
	WIRELESS ACCESS POINT PROVIDED BY OWNER.
	PROVIDE 4" SQUARE BOX WITH SINGLE GANG MUD RING FOR CABLE TELEVISION OUTLET BY OWNER. PROVIDE 3/4" CONDUIT WITH PULL STRING FROM BOX TO ACCESSIBLE LOCATION ABOVE CEILING.
	DOOR RELEASE RELAY

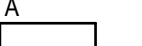
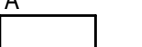
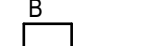
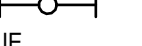
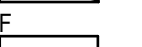
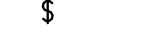
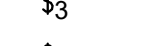
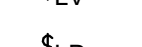
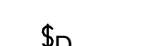
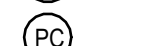
POWER

	TRANSFORMER.
	PANELBOARD; 480Y/277V.
	PANELBOARD; 208Y/120V.
	FUSIBLE DISCONNECT SWITCH, FUSED PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
	NON-FUSED DISCONNECT SWITCH.
	COMBINATION MOTOR STARTER DISCONNECT SWITCH.
	DISCONNECT SWITCH TAG: P= NUMBER OF POLES; SIZE = DISCONNECT AMP RATING; * = FUSED PER MANUFACTURER'S NAMEPLATE RATING; NF = NON-FUSED; FUSE = FUSE SIZE
	MOTOR RATED SWITCH. 20A, 2P, 120/277V.
	JUNCTION BOX SIZED PER NEC.
	SIMPLEX RECEPTACLE; NEMA 5-20R, 125VAC.
	DUPLEX RECEPTACLE; NEMA 5-20R, 125VAC.
	COUNTER HEIGHT DUPLEX RECEPTACLE; NEMA 5-20R, 125VAC.
	QUADRUPLX RECEPTACLE, NEMA 5-20R, 125VAC.
	COUNTER HEIGHT QUADRUPLX RECEPTACLE; NEMA 5-20R, 125VAC.
	30A, 125VAC, TWIST-LOCK NEMA L5-30R.
	RECEPTACLE SUBSCRIPTS: GF GROUND FAULT CIRCUIT INTERRUPTER. WP GROUND FAULT CIRCUIT INTERRUPTER WITH WEATHER PROOF, IN-USE TYPE COVER. IG ISOLATED GROUND TR TAMPER RESISTANT C CONTROLLED RECEPTACLE IN COMPLIANCE WITH NEC 406.3(E)
	EMERGENCY POWER SHUNT TRIP PUSH BUTTON STATION.
	DIRECT DIGITAL CONTROL PANEL.
	SURGE PROTECTION DEVICE.
	PLAN KEYNOTE.
	GENERATOR ANNUNCIATOR PANEL.

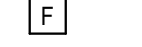
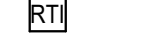
ELECTRICAL SYMBOLS LEGEND

(APPLIES TO ALL ELECTRICAL DRAWINGS)

LIGHTING

	UPPER CASE LETTER INDICATES FIXTURE TYPE. LOWER CASE LETTER INDICATES SWITCH LEG, NUMBER INDICATES CIRCUIT. SEE LIGHTING FIXTURE SCHEDULE AND DRAWINGS.
	2' x 4' LIGHTING FIXTURE.
	2' x 4' LIGHTING FIXTURE WITH INTEGRAL EMERGENCY BATTERY PACK.
	2' x 2' LIGHTING FIXTURE.
	2' x 2' LIGHTING FIXTURE WITH INTEGRAL EMERGENCY BATTERY PACK.
	4' STRIP LIGHTING FIXTURE.
	4' STRIP LIGHTING FIXTURE WITH INTEGRAL EMERGENCY BATTERY PACK.
	1' X 4' LIGHTING FIXTURE.
	4' LIGHTING FIXTURE.
	4' LIGHTING FIXTURE WITH EMERGENCY BATTERY PACK.
	RECESSED MOUNTED LIGHTING FIXTURE.
	RECESSED LIGHTING FIXTURE WITH INTEGRAL EMERGENCY BATTERY PACK.
	CEILING MOUNTED SINGLE SIDED EMERGENCY/EXIT SIGN WITH INTEGRAL EMERGENCY BATTERY PACK.
	WALL MOUNTED SINGLE SIDED EMERGENCY/EXIT SIGN WITH INTEGRAL EMERGENCY BATTERY PACK.
	SINGLE POLE WALL SWITCH, 20A, 120/277V.
	THREE WAY WALL SWITCH, 20A, 120/277V.
	LOW VOLTAGE SWITCH.
	LOW VOLTAGE DIMMER SWITCH.
	DIMMER SWITCH, 20A, 120/277V.
	WALL MOUNTED OCCUPANCY SENSOR WITH LOW VOLTAGE OVERRIDE SWITCH.
	WALL MOUNTED VACANCY SENSOR SWITCH.
	SINGLE POLE WALL SWITCH, 20A, 120/277V, WITH GASKETED WEATHERPROOF COVER.
	DUAL TECHNOLOGY CEILING MOUNTED OCCUPANCY SENSOR.
	DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
	PHOTOCELL.

FIRE ALARM LEGEND

	MANUAL PULL STATION.
	AUDIBLE AND VISUAL SIGNAL DEVICE (HORN STROBE). 75cd UNLESS OTHERWISE NOTED.
	CEILING MOUNTED AUDIBLE AND VISUAL SIGNAL DEVICE (CEILING HORN STROBE). 75cd UNLESS OTHERWISE NOTED.
	VISUAL SIGNAL DEVICE (STROBE). 75cd UNLESS OTHERWISE NOTED.
	SMOKE DETECTOR.
	DUCT SMOKE DETECTOR.
	HEAT DETECTOR.
	DUCT SMOKE DETECTOR REMOTE TEST INDICATION STATION.
	CARBORN MONIXIDE DETECTOR.
	FIRE ALRM CONTROL PANEL

ABBREVIATIONS AND ACRONYMS

(APPLIES TO ALL ELECTRICAL SHEETS)

A	AMPERES
AC	ALTERNATING CURRENT
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ASSOC	ASSOCIATION
A/V	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BDA	BI-DIRECTIONAL AMPLIFIER
BFP	BACKFLOW PREVENTOR
C	CONDUIT
CLG	CEILING
COMM	COMMUNICATION
CU	COPPER
DDC	DIRECT DIGITAL CONTROL
DISC	DISCONNECT
DIV	DIVISION
DWG	DRAWING
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
ELEC	ELECTRICAL
EPA	EFFECTIVE PROJECTED AREA
EM	EMERGENCY
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMT	ELECTRICAL METALLIC TUBING
ETR	EXISTING TO REMAIN
EX	EXISTING
GF	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HVAC	HEATING, VENTILATING & AIR CONDITIONING
IDS	INTRUSION DETECTION SYSTEM
JBOX	JUNCTION BOX
KAIC	(THOUSAND) AMPERE INTERRUPTING CAPACITY
kcmil	THOUSAND OF CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LC	LIGHTING CONTACTOR
LCP	LIGHTING CONTROL PANEL
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LTS	LIGHTS
LSI	LONG, SHORT, INSTANTANEOUS
LSIG	LONG, SHORT, INSTANTANEOUS, GROUND FAULT
MANUF	MANUFACTURERS
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
N	NEUTRAL
NA	NOT APPLICABLE
N.C.	NORMALLY CLOSED
N.F.	NON-FUSED
NF	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NEMA	NATIONAL ELECTRICAL MANUF ASSOC
NFPA	NATIONAL FIRE PROTECTION ASSOC
NL	NIGHT LIGHT - FIXTURE OPERATES CONTINUOUSLY
N.O.	NORMALLY OPEN
NRTL	NATIONALLY RECOGNIZED TESTING LABORATORY
NTS	NOT TO SCALE
O.C.	ON CENTER
OCPD	OVER CURRENT PROTECTION DEVICE
OH	OVERHEAD
PNL	PANELBOARD
PROJ	PROJECTOR
PVC	POLYVINYL CHLORIDE
ROOM	RECEPTACLE(S)
RM	RECEPT(S)
RGS	RIGID GALVANIZED STEEL
SN	SOLID NEUTRAL
SEC	SECURITY
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
SPST	SINGLE POLE SINGLE THROW
SQ	SQUARE
SW	SWITCH
TEL	TELEPHONE
TEMP	TEMPORARY
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TTC	TELEPHONE TERMINAL CABINET
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
USB	UNIVERSAL SERIAL BUS
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
VOIP	VOICE OVER INTERNET PROTOCOL
W	WIRE
WP	WEATHER PROOF
XFMR	TRANSFORMER
Y	WYE (CONNECTED)

DEVICE MOUNTING HEIGHTS

LIGHT SWITCHES	48" AFF TO CENTER LINE OF BOX, UON
RECEPTACLES	18" AFF TO CENTER LINE, UON
COUNTER HEIGHT RECEPTACLES	48" AFF TO CENTER LINE OR 2" ABOVE SPLASHBOARD, UON
DATA OUTLETS	18" AFF TO CENTER LINE, UON
TELEPHONES	48" AFF TO CENTER LINE OF BOX, UON
EXTERIOR RECEPTACLES	24" AFG TO BOTTOM, UON

ALL HEIGHTS ARE BASED ON NON-OBSTRUCTED REACH. MODIFY MOUNTING HEIGHTS IF/AS NECESSARY PER ADA AS REQUIRED.

GENERAL NOTES

- THE PLANS AND SPECIFICATIONS ARE DESIGNED IN ACCORDANCE WITH THE 2020 NATIONAL ELECTRICAL CODE (NEC), THE 2023 FLORIDA BUILDING CODE (FBC) EIGHTH EDITION, AND THE 2023 FLORIDA BUILDING CODE ENERGY CONSERVATION CHAPTER 4 COMMERCIAL ENERGY EFFICIENCY. ALL WORK SHALL BE IN ACCORDANCE WITH THESE CODES AND REGULATIONS AND THE LATEST ADOPTED VERSION OF THE ADA AND NFPA.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. MULTI-WIRE BRANCH CIRCUITS SHALL NOT BE UTILIZED.
- PROVIDE LABOR AND MATERIALS TO PROVIDE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON DRAWINGS AND SPECIFICATIONS.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE UL LISTED.
- A MINIMUM OF 10 FEET OF ADDITIONAL WIRE SHALL BE PULLED FOR FINAL FIELD EQUIPMENT TERMINATION AND MINIMUM OF 20 FEET AT EQUIPMENT RACK LOCATIONS UNLESS OTHERWISE SPECIFIED.
- ALL PRIMARY POWER OUTAGES MUST BE COORDINATED IN ACCORDANCE WITH DIVISION I SPECIFICATIONS.
- ELECTRICAL CONTRACTOR SHALL FURNISH, INSTALL AND BEAR COSTS FOR TEMPORARY CONSTRUCTION POWER.
- ALL ELECTRICAL WORK SHALL BE EXECUTED INCORPORATING LOCK-OUT, TAG-OUT PROCEDURES IN ACCORDANCE WITH STANDARDS LISTED IN GENERAL NOTE 1 ON THIS SHEET.
- COORDINATE ALL LIGHTING FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
- CONTRACTOR SHALL THOROUGHLY REVIEW ALL DESIGN DOCUMENTS TO ASSURE THAT ELECTRICAL SERVICE FOR ALL ITEMS AND/OR EQUIPMENT REQUIRING ELECTRICAL SERVICE IS INCLUDED. ANY ITEM AND/OR EQUIPMENT NOT PROVIDED WITH ELECTRICAL SERVICE, REQUIRING ELECTRICAL SERVICE, SHALL BE IMMEDIATELY BROUGHT TO THE OWNER'S ATTENTION.
- MECHANICAL AND ELECTRICAL EQUIPMENT HAS BEEN LOCATED AND ARRANGED TO MINIMIZE THE INTERFERENCES OF EQUIPMENT AND STRUCTURE. CONTRACTOR SHALL THOROUGHLY BECOME FAMILIAR WITH THE WORK TO BE PERFORMED BY ALL TRADES AND THE PHYSICAL CHARACTERISTICS OF THE STRUCTURE IN ORDER TO SCHEDULE AND INSTALL EQUIPMENT AND TO MINIMIZE POSSIBLE INTERFERENCE. FAILURE TO PROPERLY COMMUNICATE AND SCHEDULE WORK WITH OTHER TRADES RESULTING IN ADDITIONAL WORK AND MATERIAL, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- EQUIPMENT INSTALLED WITHIN CONCEALED SPACES SHALL HAVE REASONABLE AND CODE COMPLIANT ACCESS PANELS PROVIDED NEARBY FOR INSPECTION, TESTING AND SERVICE CONSIDERATIONS.
- VERIFY CEILING TYPES AND INSTALLATION REQUIREMENTS PRIOR TO ORDERING LIGHT FIXTURES.
- COORDINATE THE LOCATION OF ALL DEVICES AND BOXES WITH WINDOWS, MILLWORK, BUILT-INS, AND CABINETS PRIOR TO ANY INSTALLATION OF CONDUITS.
- ALL DISCONNECTING MEANS (SWITCHES) FEEDING FAN TERMINAL BOXES SHALL BE MOTOR RATED SWITCHES. MOUNT ALL DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT WITHIN SIX (6) FEET OF EQUIPMENT AS REQUIRED BY APPLICABLE CODES AND STANDARDS. LOCATIONS FOR DISCONNECT SWITCHES SHOWN ON PLANS ARE FOR GENERAL INFORMATION ONLY.
- COORDINATE EXACT INSTALLATION HEIGHT AND MOUNTING OF OUTLETS WITH ARCHITECTURAL DRAWINGS.
- VERIFY EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT, INCLUDING WALL SWITCHES, THERMOSTATS, ETC WITH MECHANICAL CONTRACTOR AND MECHANICAL DRAWINGS.
- REFER TO MECHANICAL EQUIPMENT SCHEDULES ON MECHANICAL SHEETS, FOR CONDUIT/CONDUCTORS, DISCONNECTS, MISCELLANEOUS EQUIPMENT REQUIRED FOR ALL MECHANICAL EQUIPMENT.
- WIRE AND CONDUIT SYSTEMS ARE SHOWN DIAGRAMMATICALLY AND SHALL BE ROUTED TO SUIT FIELD CONDITIONS AND EQUIPMENT LOCATIONS.
- LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED WITHIN ENVIRONMENTAL AIR SPACES PER NEC 300.22(C).
- ADJUST WIRE AND CONDUIT SIZES FOR VOLTAGE DROP OF 3% ON ALL BRANCH CIRCUITING OVER 100 FEET.
- ALL BRANCH CIRCUIT BREAKERS IN MAIN CIRCUIT BREAKER AND/OR MAIN LUG ONLY BRANCH PANELS SHALL BE BOLT-ON TYPE.
- MINIMUM CONDUIT SIZE SHALL BE 3/4". WIRE SIZE SHALL BE BASED ON UPSTREAM OCPD RATING. EQUIPMENT GROUND CONDUCTOR SHALL BE SIZED PER NEC 250.122. INCLUDE GROUND CONDUCTOR IN EVERY ELECTRICAL POWER CONDUIT.
- ALL MATERIALS USED ON CONSTRUCTION SHOULD BE, IN ORDER OF PREFERENCE, NON-COMBUSTIBLE, FM APPROVED OR CLASS1. FM APPROVED PRODUCTS ARE ALL MARKED WITH "FM DIAMOND". THIS INCLUDES, BUT IS NOT LIMITED TO, DUCTS, PIPES, PLASTIC CONSTRUCTION MATERIALS AND INSULATIONS.

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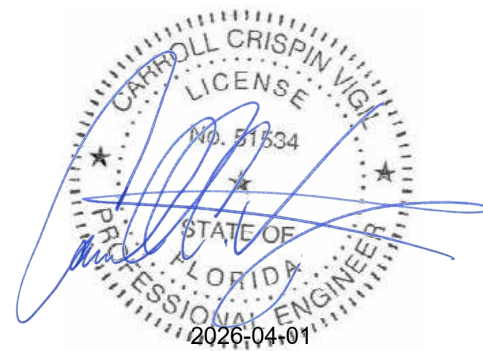
2420 S. Lakemont Avenue | Suite 300
Orlando | Florida | 32814
T 407-896-9301 | F 407-896-9304

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FLORIDA POWER & LIGHT COMPANY
COLUMBIA STORM PROCESSING FACILITY
ISC STORES / PGD WAREHOUSE
BUILDING E
COLUMBIA COUNTY, FLORIDA



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ARCHENGR OF RECORD

CARROLL C VIGIL
FL #51534

DESIGNED BY

BRPH

DRAWN BY

BRPH

PROJECT NUMBER

C09414.003.00

DATE

03/15/2026

TITLE

ELECTRICAL
LEGEND

DRAWING NO.

e-E001

2420 S. Lakemont Avenue | Suite 300
Orlando | Florida | 32814
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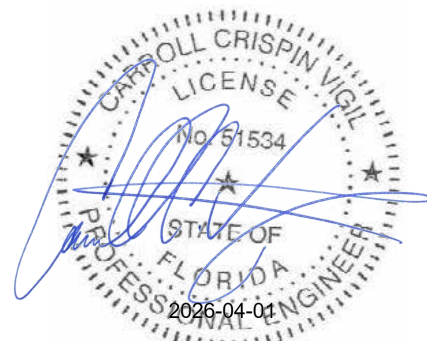
GENERAL NOTES:

1. LIGHTING FIXTURES, AS SPECIFIED HEREIN, ARE REPRESENTATIVE OF A MINIMUM STANDARD OF QUALITY. THE USE OF AN APPROVED EQUAL PRODUCT SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR THE FIXTURES. THE LIGHT OUTPUT, WARRANTY, AND OVERALL PERFORMANCE, IF REQUIRED ILLUMINANCE LEVELS ARE NOT MET, CONTRACTOR SHALL PROVIDE ADDITIONAL OR REPLACEMENT FIXTURES AT THEIR EXPENSE.
2. CONTRACTOR SHALL CLOSELY COORDINATE ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING TYPE SPECIFICATIONS WITH RESPECTIVE LIGHTING FIXTURE FOR EACH ROOM PRIOR TO ORDERING. TO AVOID PROBLEMS, THE CONTRACTOR'S PART PERTAINING TO THE INSTALLATION REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER OF RECORD.
3. PROVIDE UNSWITCHED NORMAL SENSING CONDUCTOR FROM THE NORMAL CIRCUIT IN THE SAME SPACE TO ALL FIXTURES EQUIPPED WITH EMERGENCY BATTERY PACK.

FIXTURE TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMPS	MOUNTING	COMMENTS
A	ACUITY BRANDS	2BLT4-40L-AD5M-MVOLT-EZ1-LP840	2' X 4' LED TROFFER	4000 LUMENS LED, 4000K, 32W	RECESSED	--
AE	ACUITY BRANDS	2BLT4-40L-AD5M-MVOLT-EZ1-LP840-EL14L	2' X 4' LED TROFFER WITH EMERGENCY BATTERY BACKUP	4000 LUMENS LED, 4000K, 32W	RECESSED	--
D	ACUITY BRANDS	LDN4 40/10 LO4 AR LD TRW MVOLT GZ10	4" LENSED DOWNLIGHT	1000 LUMENS LED, 4000K, 10.6W	RECESSED	--
DE	ACUITY BRANDS	LDN4 40/10 LO4 AR LD TRW MVOLT GZ10 E10WCP	4" LENSED DOWNLIGHT WITH EMERGENCY BACKUP	1000 LUMENS LED, 4000K, 10.6W	RECESSED	--
F	ACUITY BRANDS	MSL-10000LM-SBL-MVOLT-GZ10-35K-80CRI-WH	4' HIGH BAY LED	10000 LUMENS LED, 3500K, 86W	SURFACE/PENDANT	MOUNTED TO BOTTOM OF STRUCTURE.
FE	ACUITY BRANDS	MSL-10000LM-SBL-MVOLT-GZ10-35K-80CRI-E10WLCP-WH	4' HIGH BAY LED WITH EMERGENCY BATTERY BACKUP	10000 LUMENS LED, 3500K, 86W	SURFACE/PENDANT	MOUNTED TO BOTTOM OF STRUCTURE.
HE	KENALL	CSEFL14-45L40K-DIM1-DV-PAF-2H-U-LEL	1' X 4' LED WITH BATTERY BACKUP	5000 LUMENS LED, 4000K, 45W	SURFACE/PENDANT	--
J	ACUITY BRANDS	CLX-L48-5000LM-SEF-L-MVOL-30K-80CRI-WH	4' LED STRIP	5000 LUMENS LED, 3000K, 34W	SURFACE/PENDANT	--
JE	ACUITY BRANDS	CLX-L48-5000LM-SEF-L-MVOL-30K-80CRI-E10WLCP-WH	4' LED STRIP WITH EMERGENCY BATTERY BACKUP	5000 LUMENS LED, 3000K, 34W	SURFACE/PENDANT	--
X	ACUITY BRANDS	LQM-S-W-3-G-120/277-EL-N-SD	LED EXIT SIGN WITH EMERGENCY BATTERY BACKUP	1W	SURFACE/PENDANT	--

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**FLORIDA POWER & LIGHT COMPANY
COLUMBIA STORM PROCESSING FACILITY
ISC STORES / PGD WAREHOUSE
BUILDING E
COLUMBIA COUNTY, FLORIDA**



ARCHENGR OF RECORD

DESIGNED BY

BRPH

DRAWN BY

BRPH

PROJECT NUMBER

C09414.0

DATE _____

03/15/2026

TITLE

LIGHTING FIXTURE SCHEDULE

DRAWING NO.

e-E002

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LIGHTING CONTROL MATRIX - WAREHOUSE

CONTROL CODE	TARGET AREAS	LIGHTING CONTROL DESIGN INTENT	COMMENTS
1	ELECTRICAL ROOM MECHANICAL ROOM	MANUAL ON/MANUAL OFF OPERATION: LIGHTS WILL BE MANUALLY TURNED ON AND OFF WITHOUT AUTOMATIC CONTROLS.	
2	MEZZANINE OFFICE BREAKROOM WORKSPACE COMM ROOM	MANUAL ON/VACANCY OFF OPERATION: LIGHTS WILL BE MANUALLY TURNED ON TO 100% LIGHT OUTPUT, WITHOUT DIMMING CAPABILITIES, AND WILL BE AUTOMATICALLY TURNED OFF AFTER VACANCY IS SENSED FOR A PERIOD OF 15 MINUTES	
3	RESTROOM	AUTOMATIC ON/AUTOMATIC OFF OPERATION: LIGHTS WILL AUTOMATICALLY TURN ON TO 100% LIGHT OUTPUT UPON OCCUPANCY DETECTION, AND WILL BE AUTOMATICALLY TURNED OFF AFTER 15 MINUTES OF VACANCY	
4	WAREHOUSE	AUTOMATIC ON/AUTOMATIC DIM OPERATION: LIGHTS WILL BE CONTROLLED THROUGH A CENTRALIZED LIGHTING RELAY PANEL VIA OCCUPANCY SENSORS. LIGHTS WILL AUTOMATICALLY TURN ON TO 100% LIGHT OUTPUT UPON OCCUPANCY DETECTION, AND WILL BE AUTOMATICALLY DIMMED TO 50% OUTPUT AFTER 15 MINUTES OF VACANCY. AUTOMATIC CONTROLS WILL BE OVERRIDDEN BY A MANUAL LOW VOLTAGE SWITCH.	OCCUPANCY SENSORS SHALL CONTROL LIGHTS IN EACH AISLEWAY INDEPENDENTLY AND SHALL NOT CONTROL LIGHTING BEYOND THE AISLEWAY BEING CONTROLLED BY THE SENSOR
5	EXTERIOR	AUTOMATIC ON/AUTOMATIC OFF OPERATION: LIGHTS WILL BE CONTROLLED THROUGH A CENTRALIZED LIGHTING RELAY PANEL VIA PHOTOCELL AND DIGITAL TIME CLOCK SET FOR TIME OF DAY OPERATION. AUTOMATIC CONTROLS WILL BE OVERRIDDEN BY A MANUAL LOW VOLTAGE SWITCH.	

WAREHOUSE INTERIOR LIGHTING POWER DENSITY CALCULATION
(BUILDING AREA METHOD)

TOTAL NEW BUILDING AREA = 8,300 SF
TOTAL NEW INTERIOR LIGHTING WATTAGE = 3,332 W
LIGHTING POWER DENSITY = 3.332 W/8,300 SF = 0.40 W/SF < 0.42 W/SF

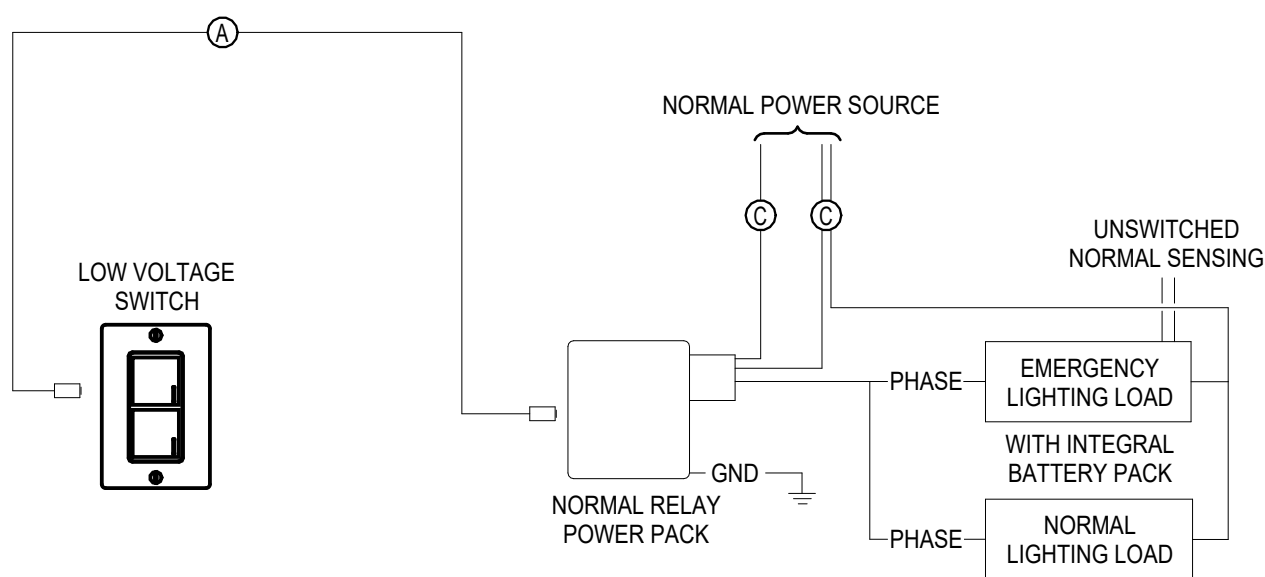
ALLOWABLE FOR A WAREHOUSE BUILDING AREA TYPE, COMPLYING WITH TABLE C405.3.2(1) AND C406.3 OF THE FBC ENERGY CONSERVATION 2023 FOR REDUCED LIGHTING POWER DENSITY.

LIGHTING CONTROL NOTES:

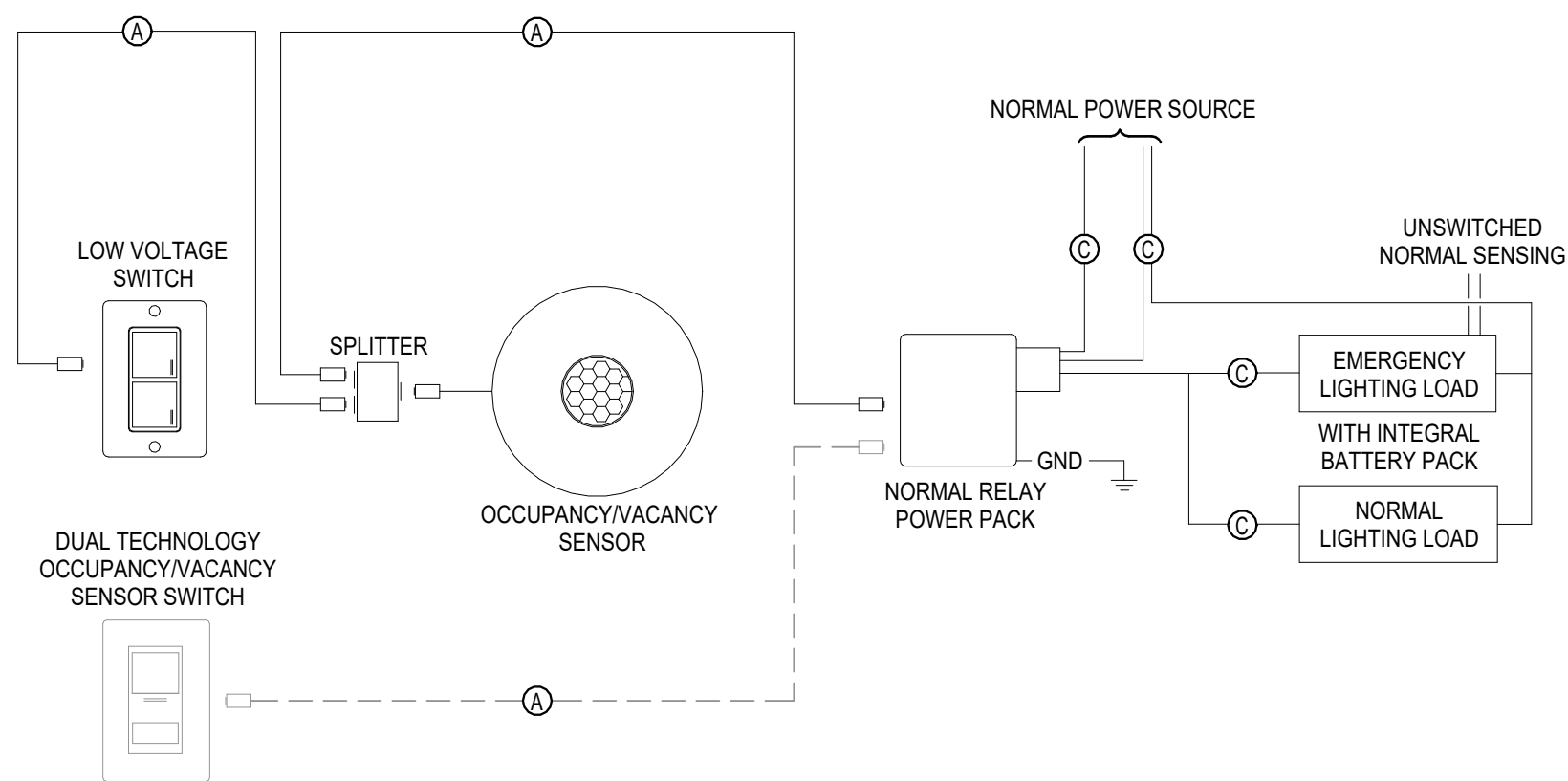
- LIGHTING CONTROLS ARE DESIGNED TO COMPLY WITH THE FBC ENERGY CONSERVATION 2023 LIGHTING CONTROL DIRECTIVES UNDER SECTION C405.2.
- LIGHTING CONTROLS FOR THE MATERIAL STORES WAREHOUSE BUILDING WILL CONSIST OF LINE AND LOW VOLTAGE SWITCHES, RELAY POWER PACKS, AND OCCUPANCY/VACANCY SENSORS DESIGNED FOR STAND ALONE OPERATION. A CENTRALIZED LIGHTING CONTROL RELAY PANEL WILL BE USED FOR CONTROL OF WAREHOUSE AND EXTERIOR LIGHTS.
- THE WHOLE BUILDING LIGHTING POWER DENSITY (W/SF) COMPLIES WITH THE REDUCED WHOLE BUILDING INTERIOR LIGHTING POWER ALLOWANCE IN TABLE C406.3 OF THE FBC ENERGY CONSERVATION 2023.
- EMERGENCY LIGHTING SHALL BE PROVIDED WITH EMERGENCY BATTERY PACKS. WHERE THE NORMAL SOURCE IS AN "ORDINARY" LIGHTING BRANCH CIRCUIT, THE EMERGENCY FIXTURE SHALL, ON NORMAL OPERATION, BE CONTROLLED BY THE LOCAL CONTROL DEVICE THAT CONTROLS THE NORMAL LIGHTING IN THE SPACE. UPON LOSS OF NORMAL POWER, THE EMERGENCY LIGHTING FIXTURES WILL BE SET ON TO 100% POWER.

WIRE LEGEND

- Ⓐ CAT 5E (LOW VOLTAGE)
- Ⓑ CLASS 2 (LOW VOLTAGE)
- Ⓒ CLASS 1 (LINE VOLTAGE)

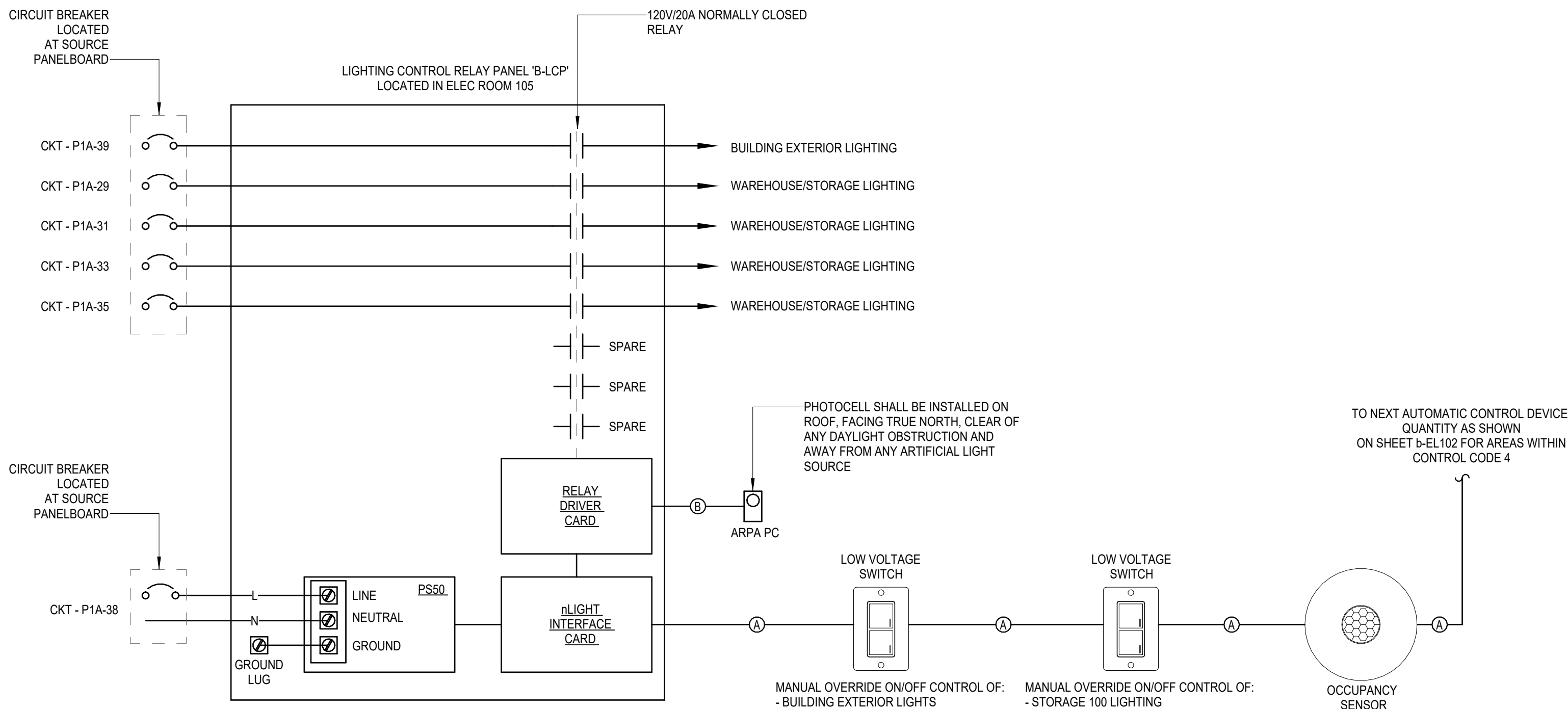


① LIGHTING CONTROL DIAGRAM - TYPICAL OF CONTROL CODE 1
NTS



NOTE: FOR RESTROOMS AND OFFICES, WITH THE DESIGN INTENT (CONTROL CODE 2 AND 3), PROVIDE A WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR/LIGHT SWITCH IN LIEU OF CEILING MOUNTED OCCUPANCY/VACANCY SENSOR AND LOW VOLTAGE SWITCH AS INDICATED ON LIGHTING PLANS.

② LIGHTING CONTROL DIAGRAM - TYPICAL OF CONTROL CODES 2 AND 3
NTS



③ LIGHTING CONTROL PANEL - TYPICAL OF CONTROL CODES 4 AND 5
NTS

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TITLE

LIGHTING
CONTROLS

DRAWING NO.

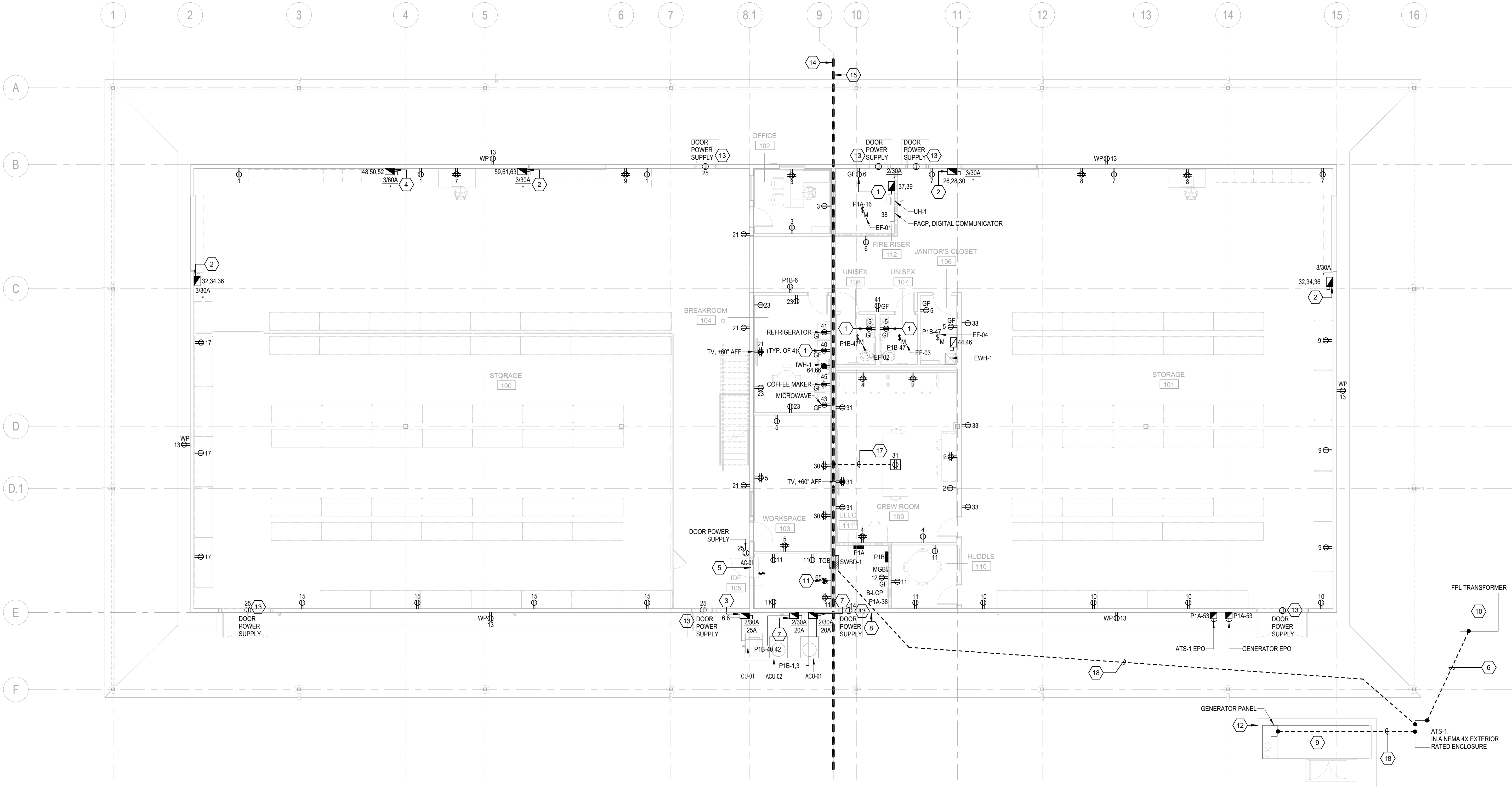
e-E003

POWER NOTES:

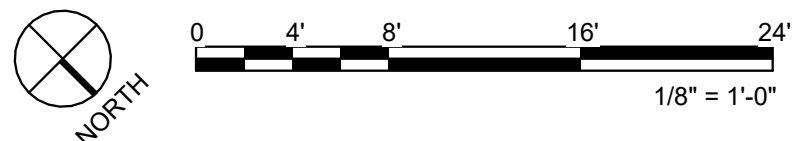
1. REFER TO SYSTEMS PLANS FOR COMMUNICATIONS DEVICES. WHERE 120V RECEPTACLES ARE IN CLOSE PROXIMITY TO COMMUNICATIONS DEVICES, SUCH DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT AS RECEPTACLES WITH NO MORE THAN 2" OF SEPARATION BETWEEN THEM.

KEYNOTES

1. PROVIDE GFCI TYPE BRANCH CIRCUIT BREAKER AT SOURCE PANELBOARD FOR RECEPTACLES INDICATED.
2. PROVIDE A 30A/3P HEAVY DUTY FUSED DISCONNECT SWITCH FOR OVERHEAD ROLL-UP DOOR. FUSE SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATION. PROVIDE ADDITIONAL CONDUIT, WIRING, AND CONNECTIONS FOR DOOR CONTROLS AS DIRECTED BY DOOR MANUFACTURER AND INSTALLER.
3. DISCONNECT SWITCH IN NEMA 3R ENCLOSURE FACTORY MOUNTED TO EQUIPMENT. PROVIDE LOAD SIDE CONNECTIONS AND HOME RUN AS INDICATED. ADDITIONALLY, PROVIDE MATCHING CONDUIT AND WIRE FOR POWER AND 3/4" CONDUIT WITH CONTROL WIRING FROM CONDENSING UNIT TO AC UNIT INDICATED. COORDINATE ALL WIRING AND INSTALLATION REQUIREMENTS WITH THE EQUIPMENT MANUFACTURER.
4. PROVIDE A 60A/3P HEAVY DUTY FUSED DISCONNECT SWITCH FOR FORKLIFT CHARGER. FUSE SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATION.
5. INSTALL MOTOR RATED DISCONNECT SWITCH FURNISHED WITH EQUIPMENT BY DIVISION 23. POWER SHALL BE EXTENDED FROM CONDENSING UNIT INDICATED. PROVIDE ADDITIONAL 3/4" CONDUIT TO SAME CONDENSING UNIT WITH CONTROL WIRING AS DIRECTED BY EQUIPMENT MANUFACTURER.
6. PROVIDE UNDERGROUND CONDUIT AND SERVICE ENTRANCE CONDUCTORS PER ONE-LINE DIAGRAM.
7. INSTALL FUSED DISCONNECT SWITCH FURNISHED BY THE DIVISION 23 CONTRACTOR WITH LOAD SIDE CONNECTIONS AND HOME RUN AS INDICATED. COORDINATE ALL WIRING AND INSTALLATION REQUIREMENTS WITH THE EQUIPMENT MANUFACTURER.
8. PROVIDE ENGRAVED PHENOLIC PERMANENT SIGN ON DOOR EXTERIOR WITH 1-1/2" HIGH LETTERS TO INDICATE "MAIN BUILDING DISCONNECT INSIDE".
9. APPROXIMATE LOCATION FOR NEW GENERATOR. COORDINATE EXACT LOCATION WITH CIVIL AND OWNER PRIOR TO INSTALLATION.
10. FPL TRANSFORMER, PROVIDED AND INSTALLED BY OWNER. COORDINATION INSTALLATION WITH UTILITY CREW. FPL SHALL PROVIDE CONCRETE PAD FOR TRANSFORMER, AND PAD SHALL BE INSTALLED UNDER GENERAL CONTRACTOR'S CONTRACTED SCOPE OF WORK.
11. PROVIDE A 30A, 125VAC, LS-30R TWIST LOCK RECEPTACLE. MOUNT RECEPTACLE TO THE CABLE TRAY ABOVE COMM. RACK ON THE REAR SIDE OF RACK. REFER TO DETAIL 5 ON SHEET b-E501.
12. ELECTRICAL CONTRACTOR SHALL PROVIDE A CONCRETE BASE FOR THE GENERATOR. FINAL DIMENSIONS SHALL MATCH GENERATOR ENCLOSURE WITH AT LEAST 4" OF CLEARANCE ON ALL SIDES.
13. PROVIDE LINE AND LOAD SIDE CONDUIT, WIRING, AND CONNECTIONS TO DOOR CONTROLLER FURNISHED WITH DOOR. PROVIDE ADDITIONAL CONDUIT, WIRING, AND CONNECTIONS FOR DOOR CONTROLS AS DIRECTED BY DOOR MANUFACTURER AND INSTALLER.
14. UNLESS NOTED OTHERWISE, ALL CIRCUIT TAGS TO THE LEFT OF THIS MATCHLINE CORRESPOND TO PANEL P1A.
15. UNLESS NOTED OTHERWISE, ALL CIRCUIT TAGS TO THE RIGHT OF THIS MATCHLINE CORRESPOND TO PANEL P1B.
16. INSTALL MOTOR RATED DISCONNECT SWITCH FURNISHED WITH EQUIPMENT BY DIVISION 23.
17. PROVIDE 3/4" CONDUIT UNDERGROUND.
18. PROVIDE UNDERGROUND CONDUIT AND SECONDARY CONDUCTORS PER ONE-LINE DIAGRAM.

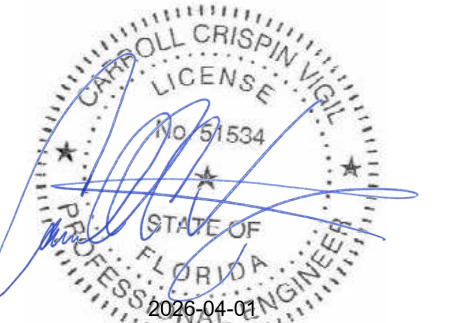


1 FIRST FLOOR POWER PLAN
1/8" = 1'-0"



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FIRST FLOOR
POWER PLAN

DRAWING NO.

e-E101

1. REFER TO SYSTEMS PLANS FOR COMMUNICATIONS DEVICES. WHERE 120V RECEPTACLES ARE IN CLOSE PROXIMITY TO COMMUNICATIONS DEVICES, SUCH DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT AS RECEPTACLES WITH NO MORE THAN 2" OF SEPARATION BETWEEN THEM.

1. REFER TO SYSTEMS PLANS FOR COMMUNICATIONS DEVICES. WHERE 120V RECEPTACLES ARE IN CLOSE PROXIMITY TO COMMUNICATIONS DEVICES, SUCH DEVICES SHALL BE INSTALLED AT THE SAME HEIGHT AS RECEPTACLES WITH NO MORE THAN 2" OF SEPARATION BETWEEN THEM.

1. PROVIDE A 30A/1PH FUSED DISCONNECT SWITCH FOR FAN'S VFD. PROVIDE LOAD SIDE CONNECTIONS AND HOME RUN AS INDICATED. COORDINATE ALL WIRING AND INSTALLATION REQUIREMENTS WITH THE EQUIPMENT MANUFACTURER. PROVIDE LOW VOLTAGE CABLING IN

1. PROVIDE A 30A/1PH FUSED DISCONNECT SWITCH FOR FAN'S VFD. PROVIDE LOAD SIDE CONNECTIONS AND HOME RUN AS INDICATED. COORDINATE ALL WIRING AND INSTALLATION REQUIREMENTS WITH THE EQUIPMENT MANUFACTURER. PROVIDE LOW VOLTAGE CABLING IN 3/4" CONDUIT TO CONTROLLER FURNISHED WITH FAN.
2. INSTALL FUSED DISCONNECT SWITCH FURNISHED BY THE DIVISION 23 CONTRACTOR WITH LOAD SIDE CONNECTIONS AND HOME RUN AS INDICATED. COORDINATE ALL WIRING AND INSTALLATION REQUIREMENTS WITH THE EQUIPMENT MANUFACTURER.
3. PROVIDE 120V/1PH ELECTRICAL CONNECTION TO CIRCULATING PUMP AND ASSOCIATED TIMER CONTROL DEVICES FURNISHED BY DIVISION 22 AND INSTALLED/WIRED BY DIVISION 26. COORDINATE REQUIREMENTS WITH THE PLUMBING CONTRACTOR AND THE EQUIPMENT MANUFACTURER.
4. UNLESS NOTED OTHERWISE, ALL CIRCUIT TAGS TO THE LEFT OF THIS MATCHLINE CORRESPOND TO PANEL P1A.
5. UNLESS NOTED OTHERWISE, ALL CIRCUIT TAGS TO THE RIGHT OF THIS MATCHLINE CORRESPOND TO PANEL P1B.
6. POWER FOR FUTURE TWO-WAY PUBLIC RADIO BIDIRECTIONAL AMPLIFIER. COORDINATE MOUNTING HEIGHT, LOCATION AND REQUIREMENTS WITH TWO-WAY RADIO VENDOR PRIOR TO INSTALLATION.



1/8" = 1'-0'


$$1/8'' = 1'-0''$$

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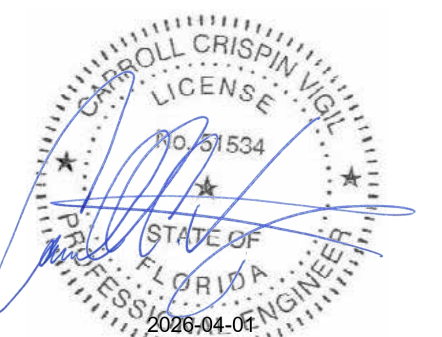
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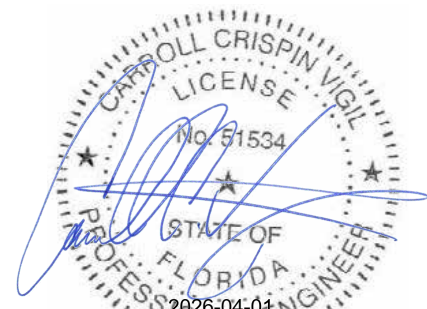
MEZZANINE POWER PLAN

DRAWING NO.

e-E102

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FIRST FLOOR
LIGHTING PLAN

DRAWING NO.

e-EL101

LIGHTING NOTES:

- EXIT LIGHTS SHALL BE WIRED TO THE NORMAL CIRCUIT IN THE SAME SPACE AHEAD OF ANY SWITCHES AND LIGHTING CONTROL DEVICES.

KEYNOTES

- PROVIDE LOW VOLTAGE SWITCH FOR MANUAL OVERRIDE OF LIGHTING FIXTURES IN ROOM 100. REFER TO DRAWING b-EL102.
- PROVIDE LOW VOLTAGE SWITCH FOR MANUAL OVERRIDE OF LIGHTING FIXTURES IN ROOM 101. REFER TO DRAWING b-EL102.
- PROVIDE LOW VOLTAGE SWITCH FOR MANUAL OVERRIDE OF WAREHOUSE EXTERIOR LIGHTING FIXTURES. REFER TO SHEET b-E003 FOR LIGHTING CONTROL DIAGRAMS.
- UNLESS NOTED OTHERWISE, ALL CIRCUIT TAGS TO THE LEFT OF THIS MATCHLINE CORRESPOND TO PANEL P1A.

UNLESS NOTED OTHERWISE, ALL CIRCUIT TAGS TO THE RIGHT OF THIS MATCHLINE CORRESPOND TO PANEL P1B.



1 FIRST FLOOR LIGHTING PLAN
1/8" = 1'-0"



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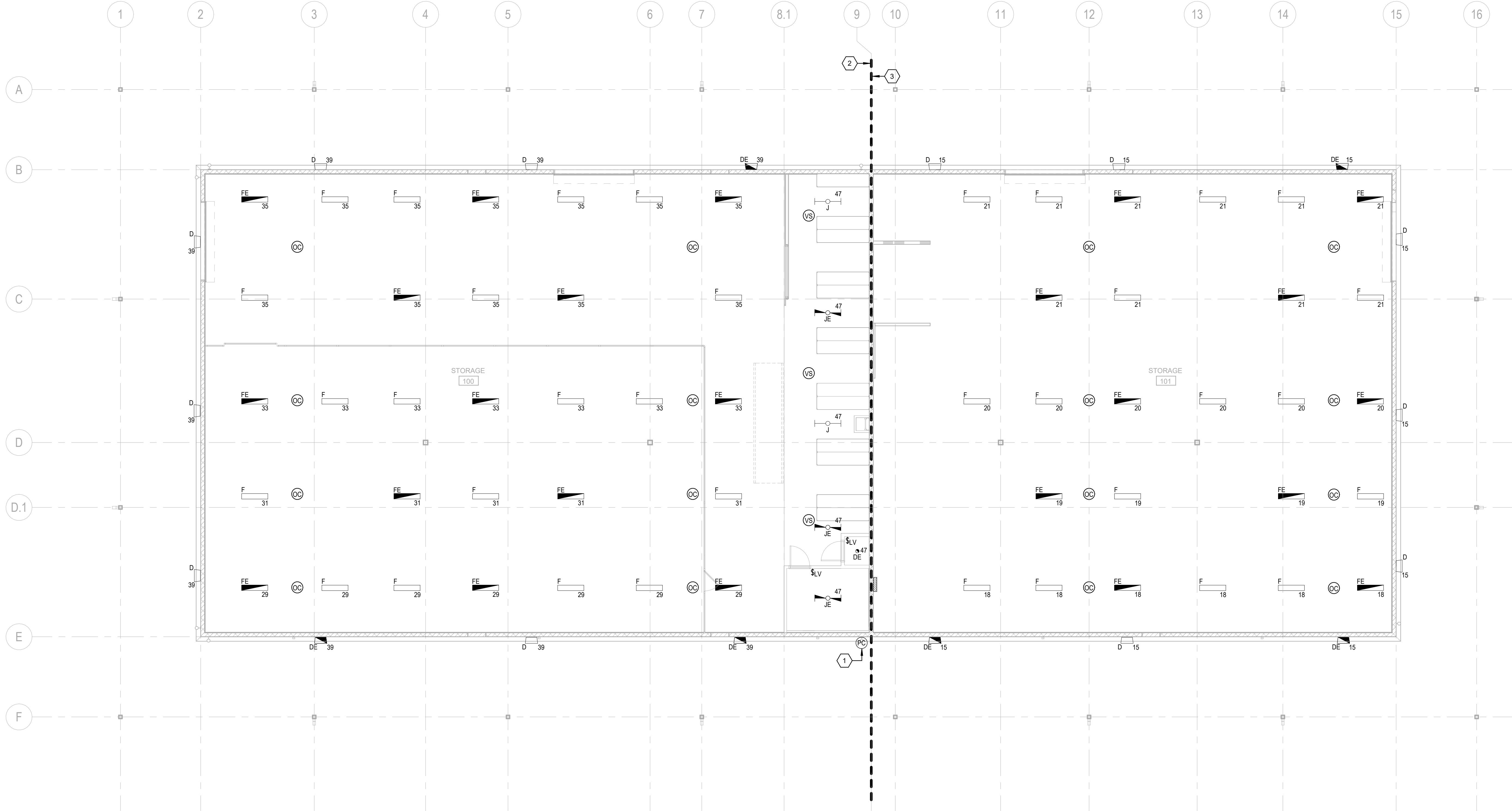
E

D

C

B

A



1 MEZZANINE LIGHTING PLAN
1/8" = 1'-0"



LIGHTING NOTES:

1. EXTERIOR BUILDING MOUNTED LIGHTING FIXTURES ON THIS DRAWING SHALL BE CONTROLLED BY TIMECLOCK IN CONJUNCTION WITH PHOTOCELL AND LIGHTING CONTACTOR 'B-LCP' LOCATED IN ELECTRICAL ROOM 105. SEE EXTERIOR LIGHTING CONTROL DIAGRAM ON b-E003, DETAIL 3.

KEYNOTES

1. PROVIDE PHOTOCELL MOUNTED BELOW EDGE OF ROOF.

2. UNLESS NOTED OTHERWISE, ALL CIRCUIT TAGS TO THE LEFT OF THIS MATCHLINE CORRESPOND TO PANEL P1A.

3. UNLESS NOTED OTHERWISE, ALL CIRCUIT TAGS TO THE RIGHT OF THIS MATCHLINE CORRESPOND TO PANEL P1B.



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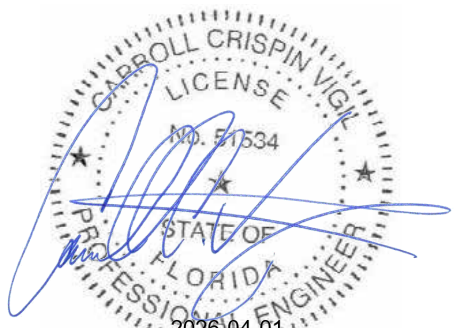
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MEZZANINE
LIGHTING PLAN

DRAWING NO.

e-EL102

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LIGHTNING PROTECTION AND GROUNDING PLAN

DRAWING NO.

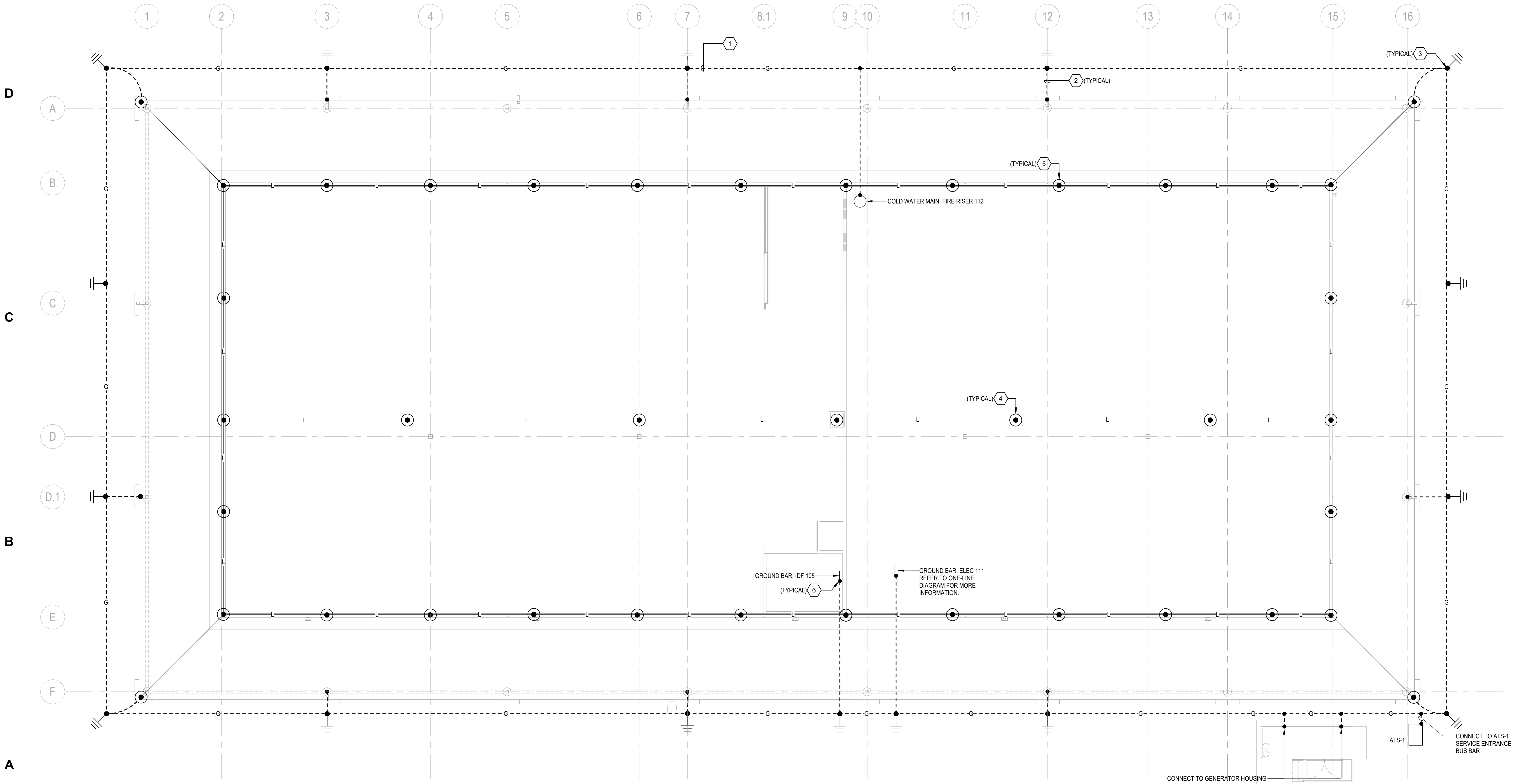
e-EG101

1. THE COMPLETED LIGHTNING PROTECTION SYSTEM INSTALLATION SHALL MEET THE REQUIREMENTS OF THE LATEST ADOPTED VERSION OF THE NATIONAL FIRE PROTECTION ASSOCIATIONS' STANDARD FOR THE INSTALLATION OF LIGHTNING PROTECTION SYSTEMS* (NFPA 780) AND THE INSTALLATION REQUIREMENTS FOR LIGHTNING PROTECTION SYSTEMS, UL 2636 UNDERWRITERS LABORATORIES INC. THE UL LIGHTNING PROTECTION INSPECTION CERTIFICATE (MASTER LABEL) SHALL BE FURNISHED TO THE OWNER UPON COMPLETION.
2. LIGHTNING PROTECTION SYSTEM DESIGN AS DEPICTED ON THESE PROJECT DRAWINGS IS SCHEMATIC AND IS INTENDED TO INDICATE BASIC SYSTEM DESIGN CONSIDERATIONS AND ELEMENTS.
3. AIR TERMINALS AT BUILDING PERIMETER SHALL BE WITHIN 2' OF ROOF EDGE, AND PROJECT A MINIMUM OF 10" ABOVE PROTECTED EDGE. THE SPACING BETWEEN AIR TERMINALS ARE NOT TO EXCEED 20' AIR TERMINALS THAT EXTEND 2' ABOVE THE PROTECTED EDGE ARE NOT TO EXCEED A SPACING GREATER THAN 25'. MIDROOF AIR TERMINALS SHALL NOT EXCEED 50' SPACING.
4. ALUMINUM LIGHTNING PROTECTION SYSTEM COMPONENTS SHALL NOT BE MOUNTED TO COPPER SURFACES. B-METALLIC LIGHTNING PROTECTION SYSTEM COMPONENTS SHALL BE USED TO AVOID ELECTROLYTIC CORROSION WHERE APPLICABLE.
5. METAL BODIES WITHIN 6" OF THE LIGHTNING PROTECTION SYSTEM SHALL BE BONDED TO THE NEAREST DOWN CONDUCTOR OR GROUND ELECTRODE.

TEST WELL LOCATIONS SHALL BE PROVIDED AS SHOWN ON DRAWING, FOR PERIODIC TESTING OF GROUND RESISTANCE.

14. GROUND RODS SHALL BE INSTALLED AT ALL LIGHTNING PROTECTION DOWN CONDUCTOR CONNECTIONS, AT GROUND LEVEL ELECTRICAL EQUIPMENT CONNECTION POINTS, AND AT GROUND LEVEL TELECOMMUNICATION EQUIPMENT ROOM GROUNDING POINTS. IN GENERAL, ALL GROUND RODS SHALL BE INTERCONNECTED IN-LINE (DEAD-ENDS MINIMIZED) TO THE COUNTERPOISE SYSTEM. ADDITIONAL GROUND RODS SHALL BE INSTALLED AS NEEDED, EACH INDIVIDUAL GROUND ROD OR OTHER ELECTRODE, DECOUPLED FROM THE COUNTERPOISE OR STRUCTURAL BONDING, SHOULD MEASURE NO MORE THAN 25 OHMS (REFERENCED TO A TEST PROBE).
15. GROUND RODS SHALL BE INSTALLED SO ANY POINT ON THE COUNTERPOISE IS WITHIN 50 FEET OF A GROUND ROD. SPACING BETWEEN GROUND RODS SHALL BE AS UNIFORM AS PRACTICABLE THROUGHOUT THE COUNTERPOISE BUT MINIMUM SPACING BETWEEN GROUND RODS SHALL NOT BE LESS THAN 6 FEET.
16. WIRE CONNECTIONS TO GROUND RODS EXCEPT THOSE IN GROUND TESTWELLS SHALL BE MADE BY EXOTHERMIC WELDING UNJO.
17. GROUND RODS SHALL BE MINIMUM 3/4-INCH DIAMETER, 10 FOOT LENGTH COPPER-CLAD STEEL RODS CONFORMING TO PROJECT SPECS. TWO 10-FOOT SECTIONS SHALL BE UTILIZED TO ACHIEVE A TOTAL OF 20 FEET. THE 20-FOOT LENGTHS SHALL BE VERTICALLY JOINED EITHER BY THREADED BRASS COUPLINGS, BY EXOTHERMIC WELDING COMPLETELY AROUND BOTH ROD/COUPLING JOINTS, OR BY THREADED COUPLINGS THAT ARE WELDED AT EITHER ROD.

1. #4/0 AWG BARE COPPER GROUND CONDUCTOR SHALL BE BURIED 30" BELOW GRADE AND PLACED A MINIMUM OF 24" OUTSIDE OF BUILDING FOUNDATION IN COMPLIANCE WITH NEC 250.53(F).
2. PROVIDE #4/0 AWG BARE COPPER GROUND CONDUCTOR FROM BUILDING COUNTERPOISE TO BUILDING CORNER STEEL COLUMNS AND INTERMEDIATE COLUMNS AT DISTANCES NOT MORE THAN 60' APART. ENCASE CONDUCTOR IN 1" PVC CONDUIT AT BUILDING ENTRY AND EXOTHERMICALLY WELD BONDING PLATE TO STEEL STRUCTURE. REFER TO 51b-E502 FOR BUILDING STEEL CONNECTION TO GROUND ROD DETAIL.
3. 3/4" DIA x 20'-0" VERTICALLY DRIVEN COPPER CLAD GROUND ROD SUCH THAT AT LEAST 8' OF ROD LENGTH IS IN CONTACT WITH SOIL IN COMPLIANCE WITH NEC 250.53(G).
4. REFER TO 21b-E502 FOR FLAT ROOF MOUNTED AIR TERMINAL DETAIL.
5. REFER TO 11b-E502 FOR PARAPET MOUNTED TERMINAL DETAIL.
6. MAIN GROUNDING BUSBAR LOCATED IN ELECTRICAL ROOM 105. PROVIDE #4/0 AWG BARE COPPER GROUND CONDUCTOR FROM BUILDING COUNTERPOISE AND BOND TO GROUND BUSBAR BY EXOTHERMIC MEANS. ENCASE CONDUCTOR IN 1" PVC CONDUIT AT BUILDING ENTRY. REFER TO DETAILS 11b-E501 AND 6b-E502.

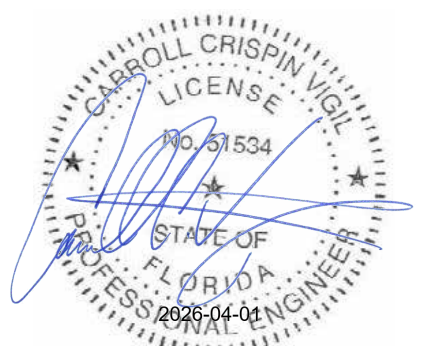


LIGHTNING PROTECTION AND GROUNDING PLAN



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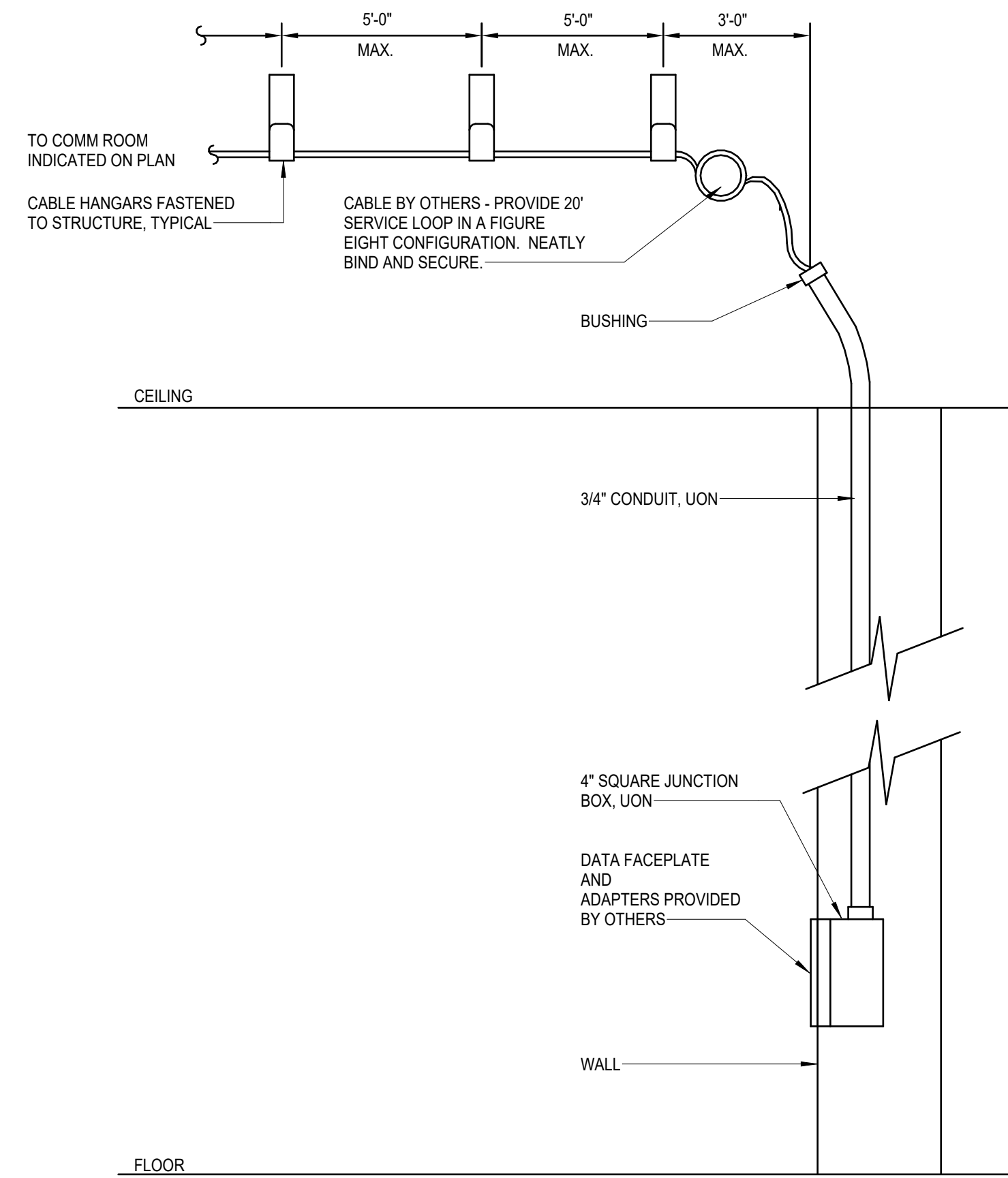


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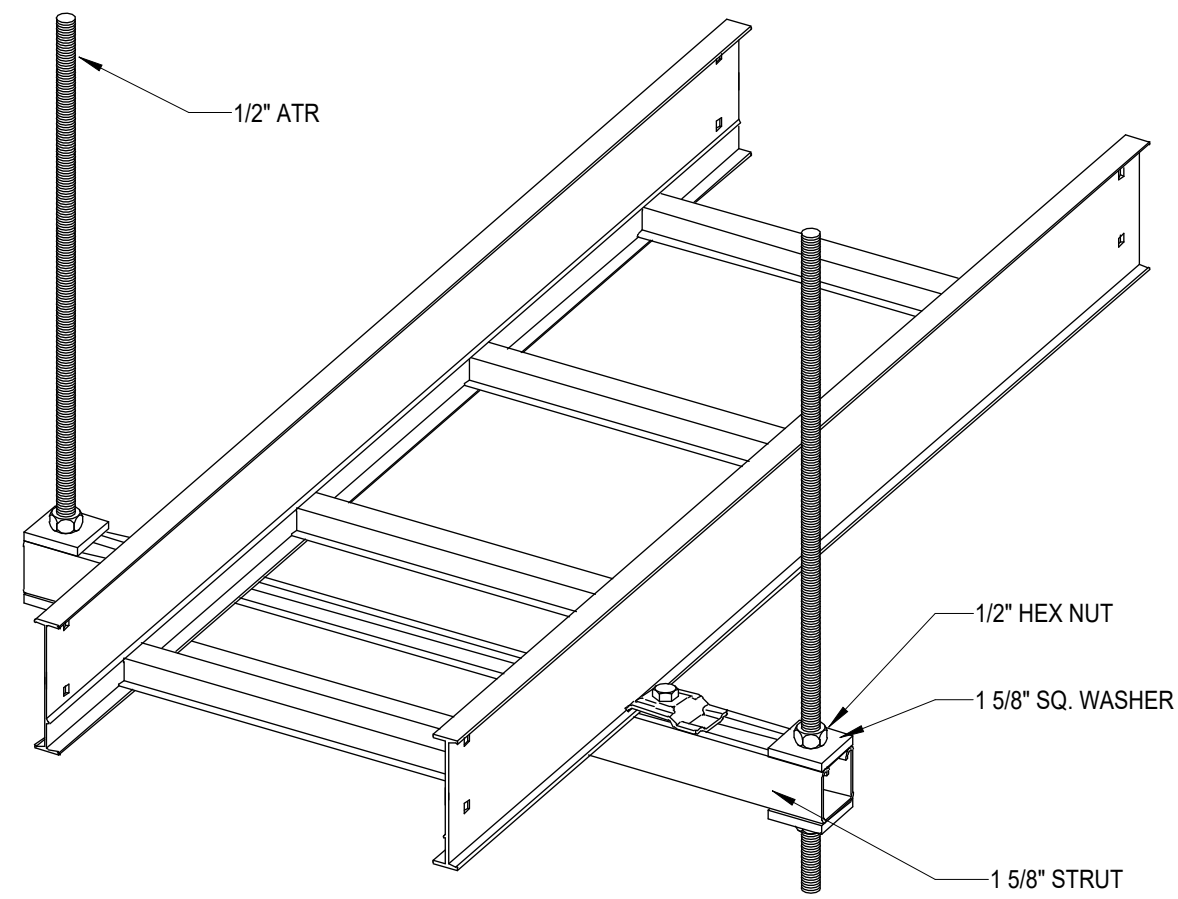
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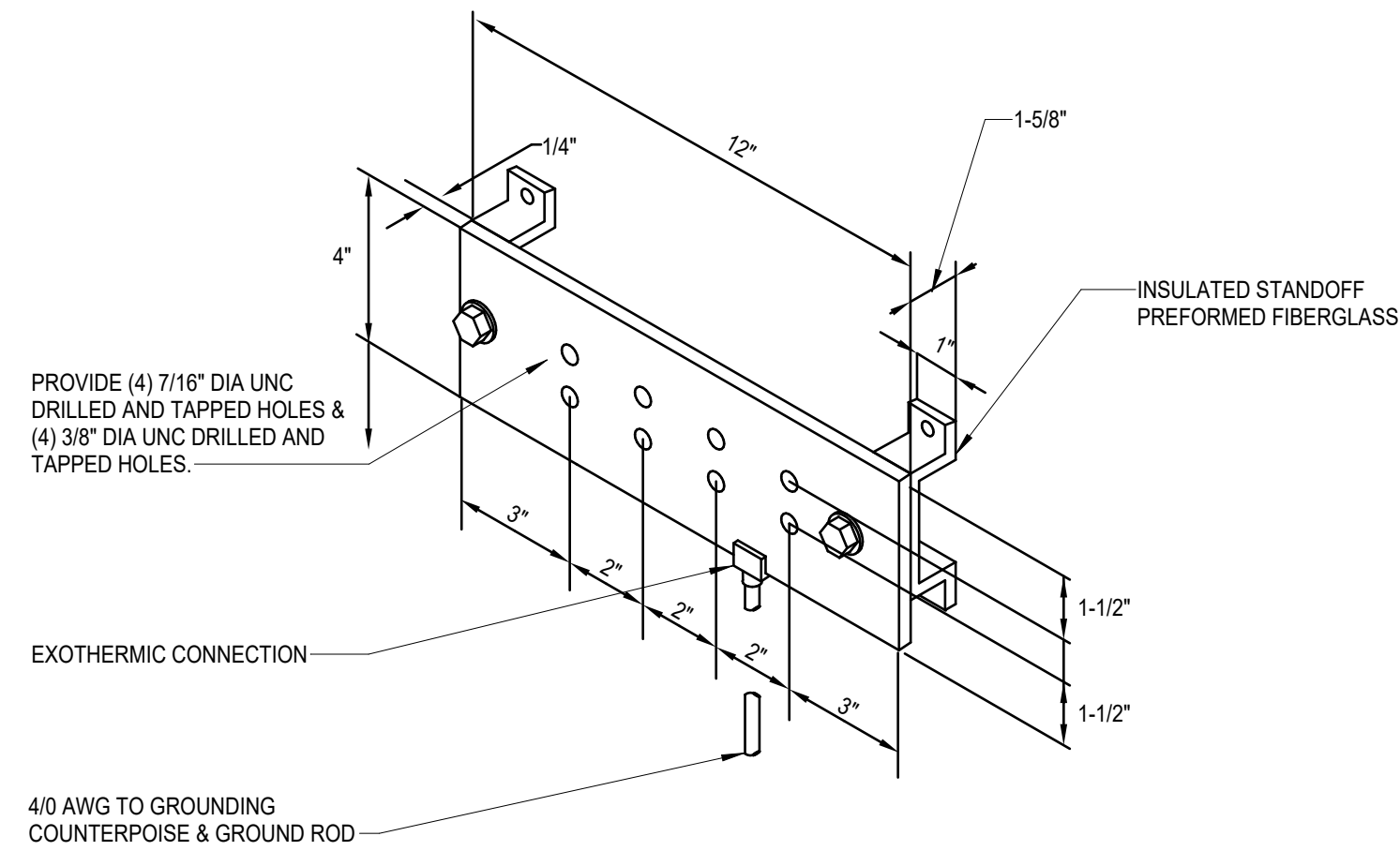
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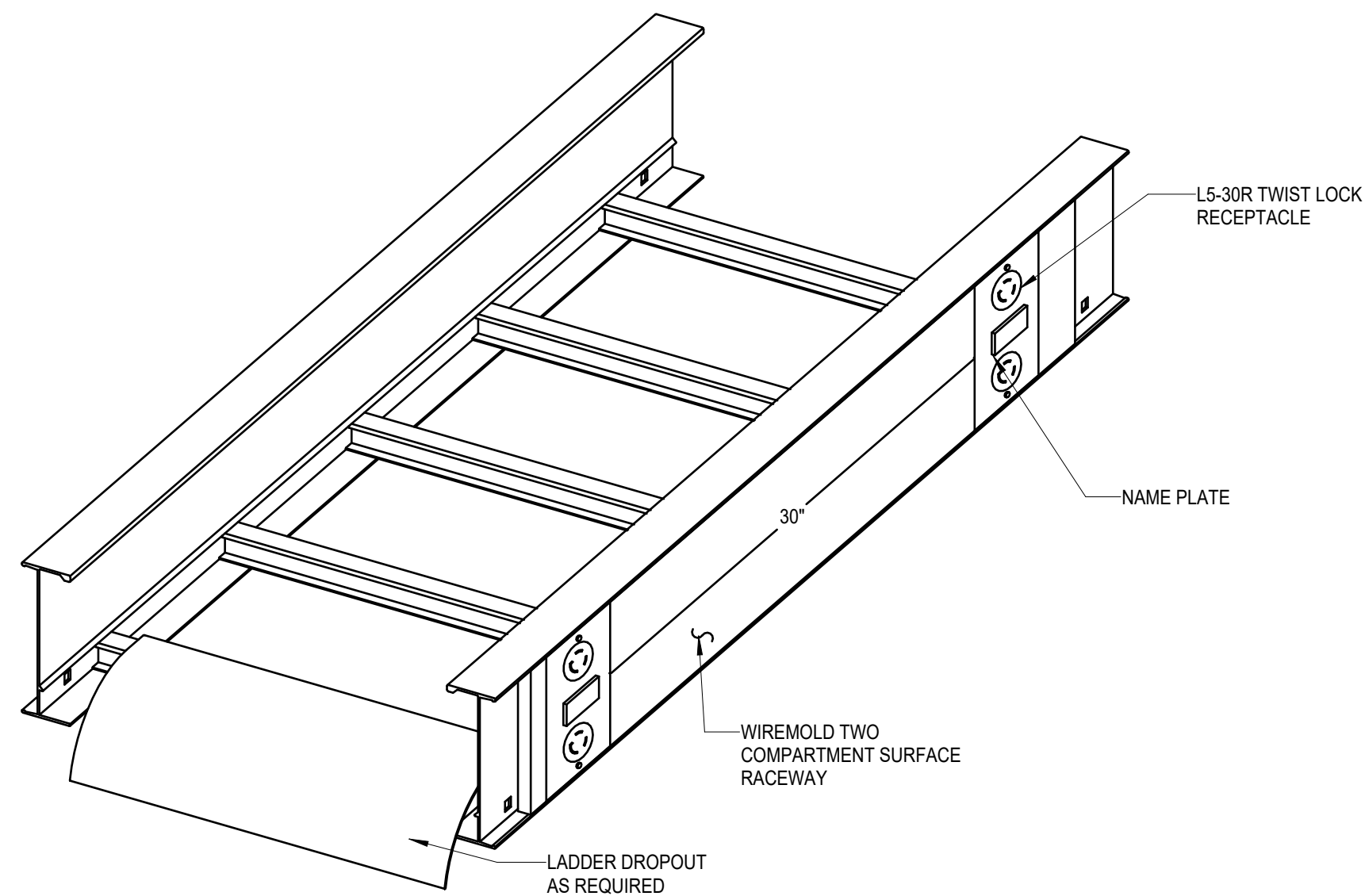
3 DATA OUTLET RACEWAY DETAIL



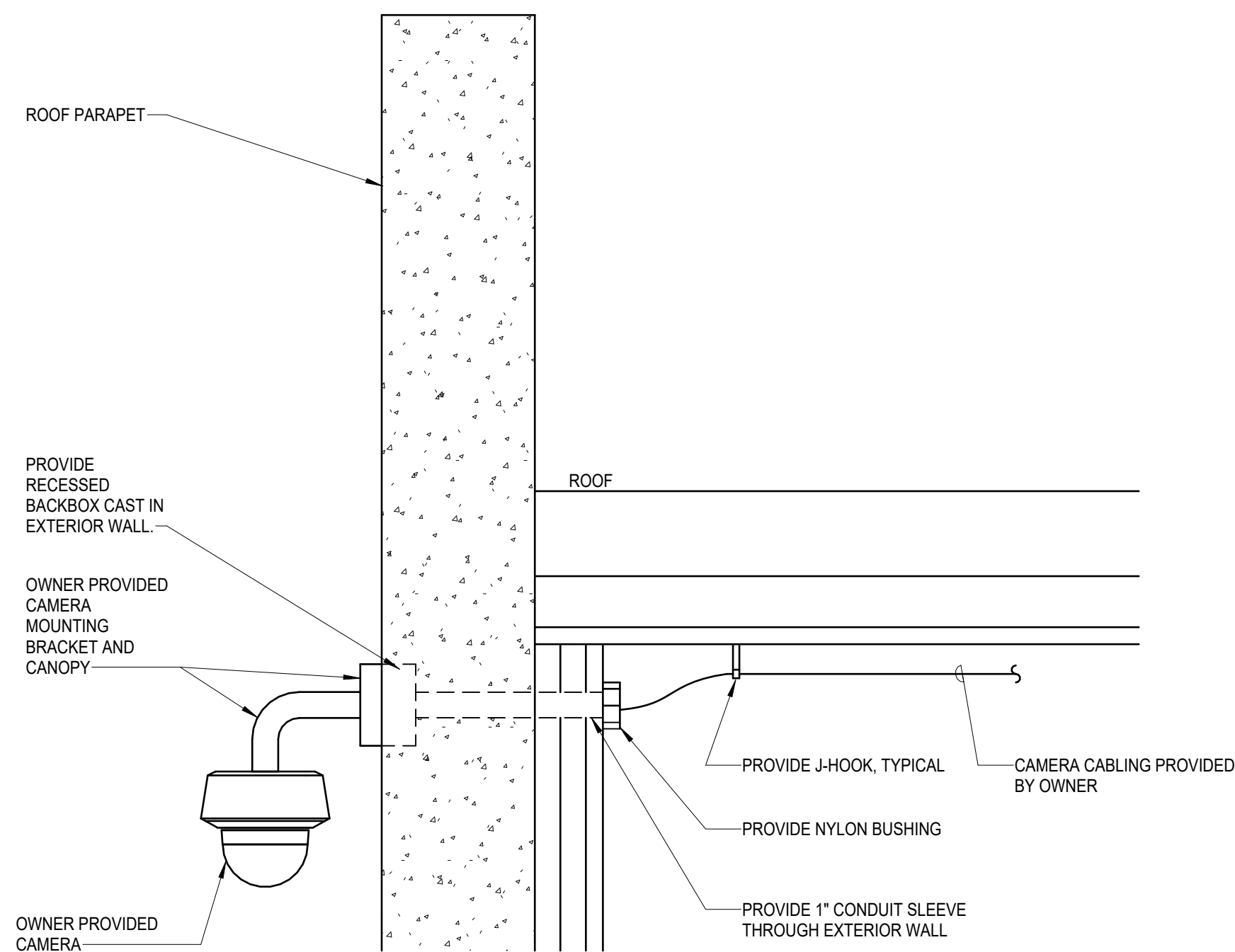
2 SINGLE TRAY TRAPEZE HANGER DETAIL



1 COPPER GROUND BAR DETAIL



4 CABLE TRAY RECEPTACLE DETAIL



5 EXTERIOR CAMERA/RAPP MOUNTING DETAIL

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Columbia Warehouses
Building/C09414003_E_FPL-B_2023_CENTRAL.rvt
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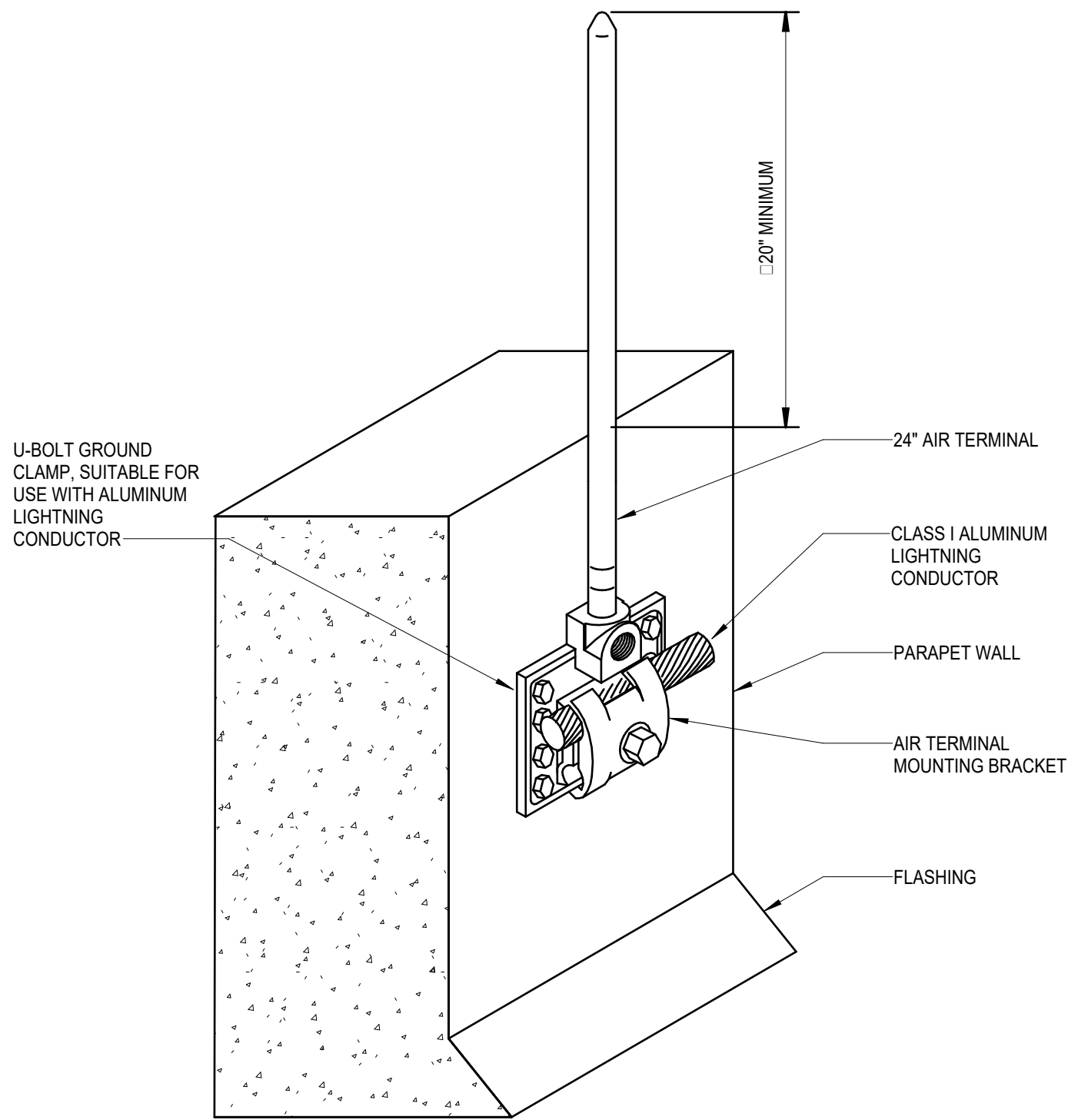
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D

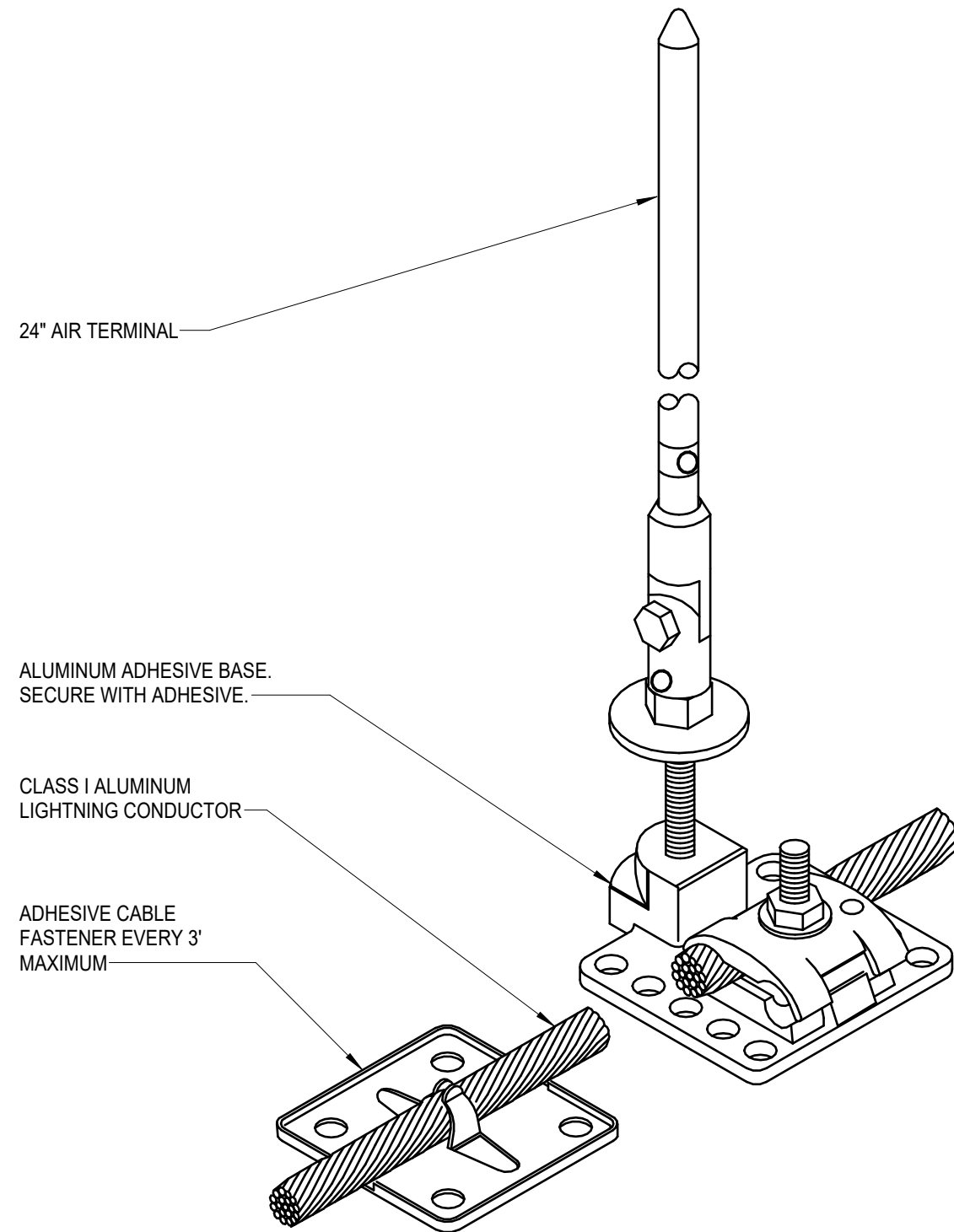
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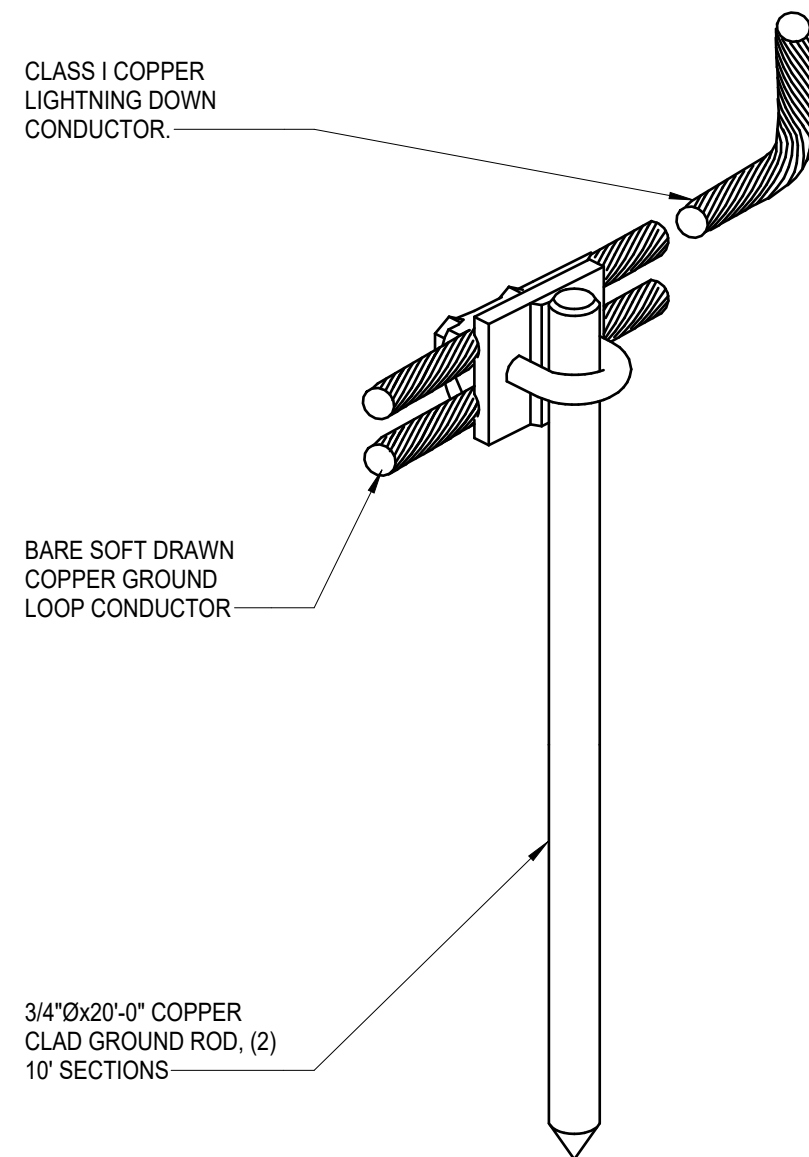
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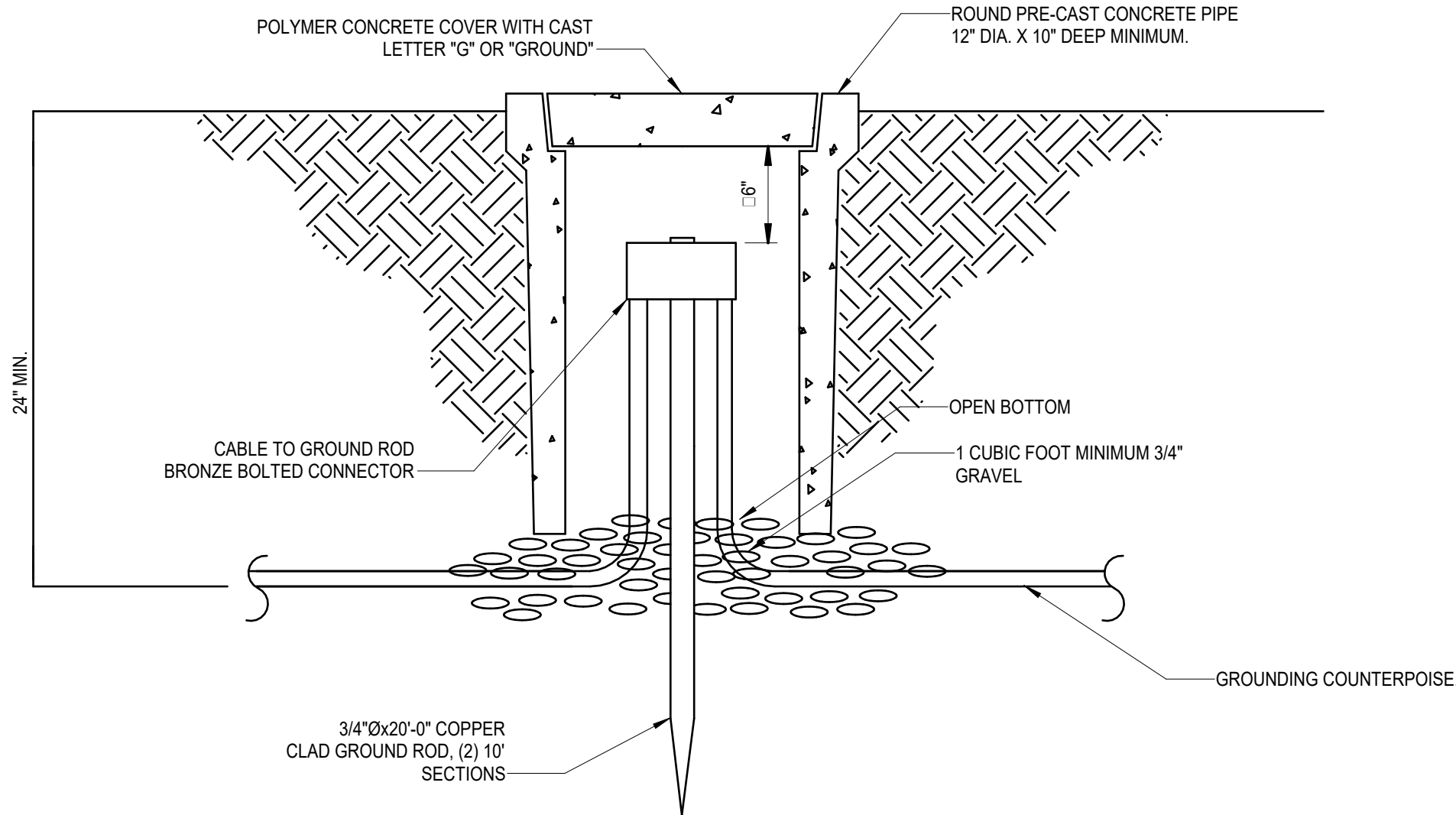
1 PARAPET AIR TERMINAL
NTS



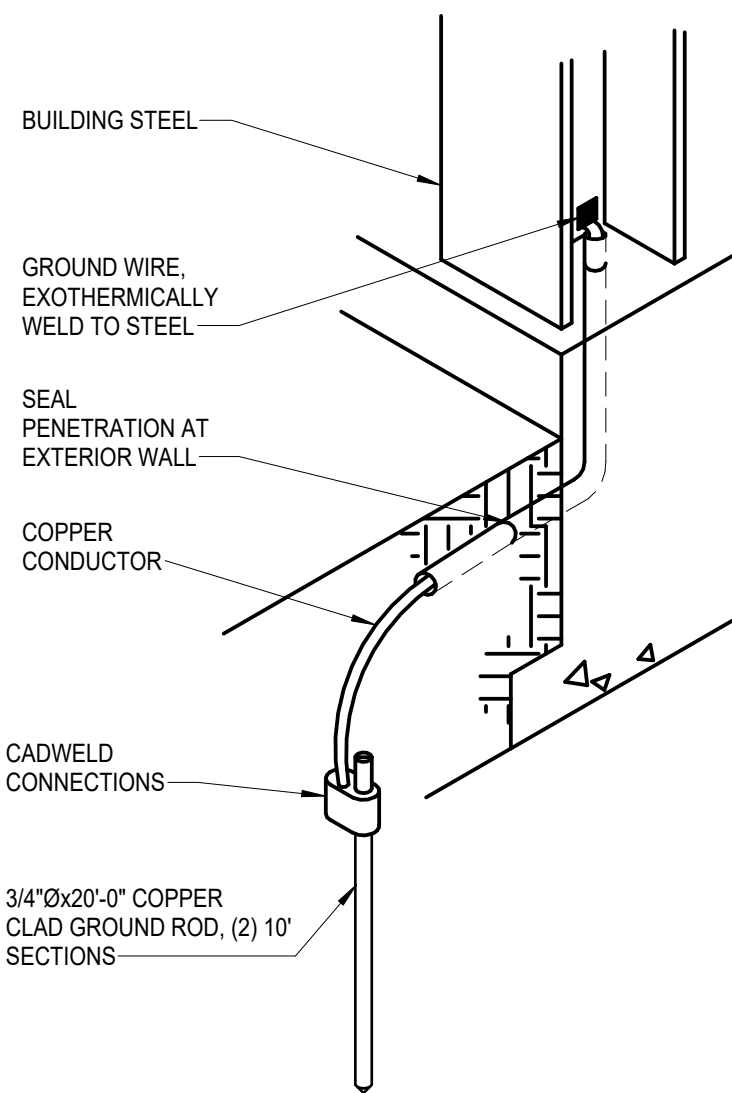
2 FLAT ROOF AIR TERMINAL
NTS



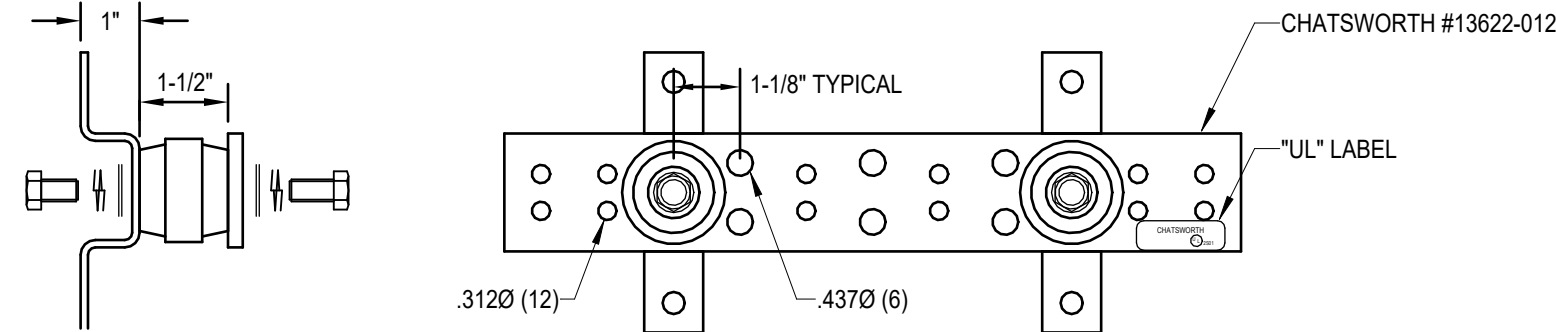
3 GROUND ROD DETAIL
NTS



4 GROUND TEST WELL
NTS



5 BUILDING STEEL CONNECTION TO GROUND ROD
NTS



6 TELECOMMUNICATIONS GROUND BAR DETAIL
NTS

DOCUMENT HISTORY

REV	DATE	DESCRIPTION

FLORIDA POWER & LIGHT COMPANY
COLUMBIA STORM PROCESSING FACILITY
ISC STORES / PGD WAREHOUSE
BUILDING E
COLUMBIA COUNTY, FLORIDA



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C09414.003.00

DATE

03/15/2026

TITLE

DETAILS

DRAWING NO.

e-E502

D

C

B

A



1. DETAILS ON THIS DRAWING ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE; THE ACTUAL LAYOUT OF THE EQUIPMENT, DEVICES, AND ROUTING OF CONDUIT(S) SHALL BE PROVIDED BY FP&L'S SECURITY SYSTEM VENDOR.

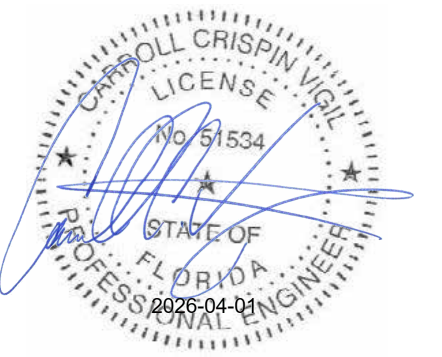


2420 S. Lakemont Avenue | Suite 300
Orlando | Florida | 32814
T 407-896-9301 | F 407-896-9304

FL Architectural Business Qualifier #AR97680
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COLUMBIA STORM PROCESSING FACILITY
ISC STORES / PGD WAREHOUSE
BUILDING E
COLUMBIA COUNTY, FLORIDA**



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DATE

03/15/2026

TITLE

DETAILS

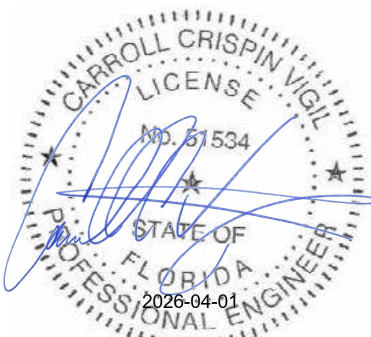
DRAWING NO.

e-E503

DOCUMENT HISTORY

REV	DATE	DESCRIPTION

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COLUMBIA COUNTY, FLORIDA



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FL #51534

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TITLE

ELECTRICAL
ONE-LINE
DIAGRAM

DRAWING NO.

e-E601

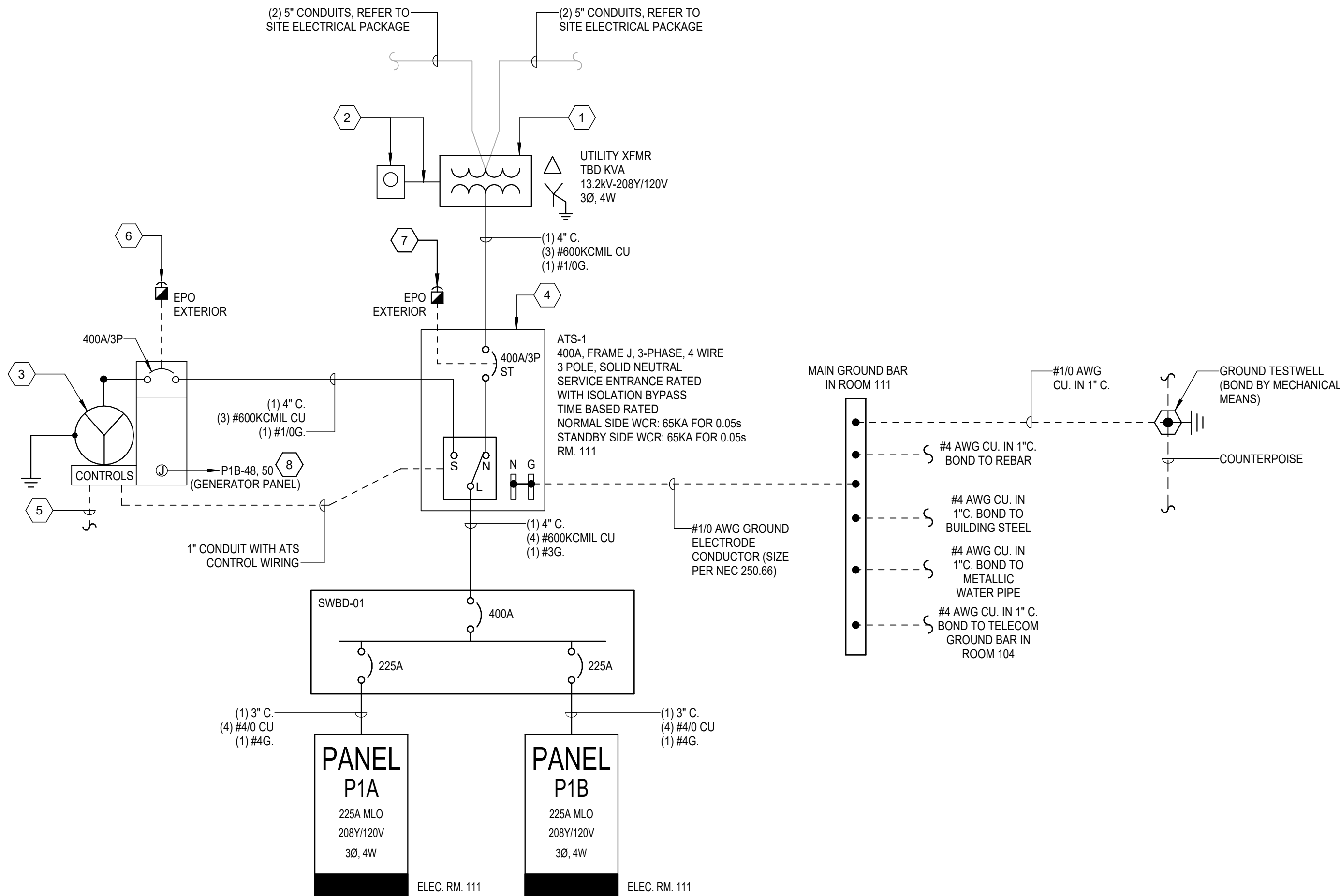
GENERATOR FUEL CALCULATIONS
GENERATOR SIZE: 120KW/150KVA
GENERATOR BASIS OF DESIGN: CATERPILLAR TBD
GENERATOR FUEL CONSUMPTION AT 100% LOAD: TBD
SUB-BASE FUEL TANK USABLE CAPACITY AT 100% LOAD: 490 GAL (ACTUAL 500 GAL)
HOURS OF FUEL RESERVE CAPACITY AT 100% LOAD: 490/6.3 = 77.7 HRS
LOW LEVEL FUEL ALARM SETTING: 490/2 = 245 GAL
*VERIFY THAT THE LOW LEVEL FUEL ALARM IS SET IN COMPLIANCE WITH NFPA 110.5.5.3.

GENERAL NOTES:

- EACH SINGLE PHASE BRANCH CIRCUIT SHALL HAVE AN INDIVIDUAL NEUTRAL WIRE. USE OF MULTI-WIRE BRANCH CIRCUITS FOR SINGLE PHASE LOADS IS NOT ACCEPTABLE.
- PROVIDE LABELS ON ELECTRICAL EQUIPMENT INDICATING (AT MINIMUM) MAXIMUM FAULT CURRENT, "SERVICE ENTRANCE", AND OTHER LABELS AS REQUIRED BY SPECIFICATIONS, APPLICABLE CODES, AND AHJ. LABEL ALL PANELS AS REQUIRED PER NEC AND AHJ REQUIREMENTS. INCLUDE ARC-FLASH HAZARD LABELS.

KEYNOTES

- NEW UTILITY TRANSFORMER PROVIDED BY FP&L. CONTRACTOR SHALL INSTALL CONCRETE PAD PER FP&L SPECIFICATIONS.
- PROVIDE 1-1/2" CONDUIT WITH PULL STRING FOR CT CABLEING BY FP&L. PROVIDE UTILITY METER ENCLOSURE AND METER SOCKET PER FP&L STANDARDS.
- INSTALL 130KW/163KVA, 208Y/120V, 3-PHASE, 4-WIRE, EMERGENCY STAND-BY DIESEL GENERATOR SET WITH A 100A/1PH LOAD CENTER, A WEATHERPROOF ENCLOSURE CAPABLE OF WITHSTANDING CATEGORY 5 HURRICANE WINDS, CRITICAL GRADE SILENCER, AND LEVEL 2 SOUND ATTENUATED HOUSING. GENERATOR SHALL BE CLASSIFIED AS NFPA 110 LEVEL 2, TYPE 60, CLASS 72 WITH DOUBLE CONTAINMENT SUB-BASE DIESEL FUEL TANK. INSTALL AS A NON-SEPARATELY DERIVED SYSTEM.
- THE NEUTRAL CONDUCTOR IS BONDED TO GROUND AT THIS LOCATION IN COMPLIANCE WITH NEC 250.24(A). DO NOT BOND NEUTRAL TO GROUND BUSBARS INSIDE ELECTRICAL EQUIPMENT BEYOND THIS POINT.
- PROVIDE 1" CONDUIT WITH CONTROL/COMMUNICATIONS WIRING AS REQUIRED TO THE BUILDING MANAGEMENT SYSTEM'S MAIN CONTROLLER. COORDINATE WITH MECHANICAL CONTRACTOR FOR LOCATION OF CONTROLLER.
- PROVIDE WEATHERPROOF GENERATOR EPO. INSTALL ENGRAVED PHENOLIC SIGN WITH 1.5" HIGH WHITE LETTERS ON A RED BACKGROUND LABELED: "GENERATOR EMERGENCY POWER OFF". MOUNT SIGN WITHIN 6' RADIUS OF DEVICE.
- PROVIDE WEATHERPROOF ATS-1 EPO. INSTALL ENGRAVED PHENOLIC SIGN WITH 1.5" HIGH WHITE LETTERS ON A RED BACKGROUND LABELED: "MAIN PANEL P1A EMERGENCY POWER OFF". MOUNT SIGN WITHIN 6' RADIUS OF DEVICE.
- CONTRACTOR SHALL COORDINATE WITH VENDOR FOR APPROPRIATE SIZE SERVICE TO GENERATOR PANEL, JACKET HEATER, AND BATTERY CHARGER AND MODIFY BREAKER AND WIRING SIZE AS APPROPRIATE.



1 ELECTRICAL ONE-LINE DIAGRAM
NTS

Panel: P1A

Design Selection: SQ, D, NQ
Mains Rating: 225 A
Type: MLO

Voltage: 208Y/120V
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 25,000 AIC
Location: ELEC 111
Served From: ATS
Modifications: N/A

Note	Trip Amps	Poles	Description	Wire	Neut	Gnd	Cond	No.	A	B	C	No.	Cond	Gnd	Neut	Wire	Description	Poles	Trip Amps	Note	
--	20 A	1	REC. - RM. 100	12	12	12	3/4"	1	0.54 kVA	0.00 kVA		2	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	REC. - RM. 102	12	12	12	3/4"	3		0.72 kVA	0.00 kVA	4	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	REC. - RM. 103	12	12	12	3/4"	5			0.90 kVA	0.83 kVA	6	1"	10	--	(2) 10	CU-01, AC-01	2	30 A	--
--	20 A	1	REC. - RM. 100	12	12	12	3/4"	7	0.36 kVA	0.83 kVA		8	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	REC. - RM. 100	12	12	12	3/4"	9		0.36 kVA	0.00 kVA	10	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	REC. - RM. 105	12	12	12	3/4"	11			3.96 kVA	0.00 kVA	12	--	--	--	SPARE	1	20 A	--	
--	20 A	1	REC. - S EXTERIOR	12	12	12	3/4"	13	0.54 kVA	0.00 kVA		14	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	REC. - RM. 100	12	12	12	3/4"	15		0.72 kVA	0.50 kVA	16	3/4"	12	12	12	EF-01	1	20 A	--	
--	20 A	1	REC. - RM. 100	12	12	12	3/4"	17			0.54 kVA	1.15 kVA	18	3/4"	10	--	(2) 10	CF-01 - RM. 100	2	20 A	--
--	20 A	1	REC. - RM. 200/201/202	12	12	12	3/4"	19	0.72 kVA	1.15 kVA		20	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	REC. - RM. 100/104	12	12	12	3/4"	21		0.90 kVA	1.15 kVA	22	3/4"	10	--	(2) 10	CF-02 - RM. 100	2	20 A	--	
--	20 A	1	REC. - RM. 104	12	12	12	3/4"	23			1.74 kVA	1.15 kVA	24	--	--	--	SPARE	1	20 A	--	
--	20 A	1	S DOOR PWR. SUP.	12	12	12	3/4"	25	0.80 kVA	4.50 kVA		26	1-1/4"	8	--	(2) 6	AHU-01 - RM. 201	2	60 A	--	
--	20 A	1	SPARE	--	--	--	--	27		0.00 kVA	4.50 kVA	28	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	STORAGE LIGHTING 100	10	10	10	3/4"	29			0.60 kVA	0.72 kVA	30	3/4"	12	12	12	REC. - RM. 103	1	20 A	--
--	20 A	1	STORAGE LIGHTING 100	10	10	10	3/4"	31	0.43 kVA	0.55 kVA		32	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	STORAGE LIGHTING 100	10	10	10	3/4"	33		0.60 kVA	0.55 kVA	34	1"	12	--	(3) 12	ROLL UP DOOR - RM. 100	3	20 A	--	
--	20 A	1	STORAGE LIGHTING 100	10	10	10	3/4"	35			1.03 kVA	0.55 kVA	36	--	--	--	SPARE	1	20 A	--	
--	20 A	1	LIGHTING - RM. 102 - 105	10	10	10	3/4"	37	0.38 kVA	0.20 kVA		38	3/4"	12	12	12	B-LCP	1	20 A	--	
--	20 A	1	S EXTERIOR LIGHTING	10	10	10	1"	39		0.27 kVA	1.20 kVA	40	3/4"	12	12	12	REC. - RM. 104	1	20 A	--	
1	20 A	1	REFRIGERATOR - RM. 104	12	12	12	3/4"	41			1.20 kVA	0.50 kVA	42	3/4"	12	12	12	DDC PANEL - RM. 201	1	20 A	--
--	20 A	1	MICROWAVE - RM. 103	12	12	12	3/4"	43	1.20 kVA	0.00 kVA		44	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	COFFEE MKR. - RM. 104	12	12	12	3/4"	45		1.20 kVA	0.00 kVA	46	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	LIGHTING - RM. 200 - 201	12	12	12	3/4"	47			0.43 kVA	2.40 kVA	48	--	--	--	SPARE	1	20 A	--	
--	20 A	1	TV SYS - RM. 104	12	12	12	3/4"	49	0.50 kVA	2.40 kVA		50	1-1/4"	8	--	(3) 4	FORKLIFT CHARGER RM. 101	3	60 A	--	
--	20 A	1	TV SYS - RM. 104	12	12	12	3/4"	51		0.50 kVA	2.40 kVA	52	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	EPO'S	12	12	12	3/4"	53			0.00 kVA	1.15 kVA	54	3/4"	10	--	(2) 10	CF-03 - RM. 100	2	20 A	--
--	20 A	1	SPARE	--	--	--	--	55	0.00 kVA	1.15 kVA		56	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	SPARE	--	--	--	--	57		0.00 kVA	1.15 kVA	58	3/4"	10	--	(2) 10	CF-04 - RM. 100	2	20 A	--	
--	20 A	3	ROLL UP DOOR - RM. 100	(3) 10	--	10	1"	59	0.55 kVA	0.00 kVA		60	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	COMM. RACK - RM. 105	10	10	10	3/4"	63		0.55 kVA	4.15 kVA	64	1"	10	--	(2) 8	IWH-1	2	40 A	--	
--	20 A	1	CP-1 - RM. 201	12	12	12	3/4"	67	0.20 kVA	0.00 kVA		68	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	SPARE	--	--	--	--	69		0.00 kVA	0.00 kVA	70	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	SPARE	--	--	--	--	71			0.00 kVA	0.00 kVA	72	--	--	--	--	SPARE	1	20 A	--
Total									16.99 kVA	21.41 kVA	25.89 kVA	Load Summary									
Connected Load									32.08 kVA	100.00%	32.08 kVA	Total Connected Load: 64 kVA									
HVAC									9.49 kVA	100.00%	9.49 kVA										
Lighting									3.75 kVA	100.00%	3.75 kVA	Estimated Demand Load: 65 kVA									
Motor									6.87 kVA	100.00%	6.87 kVA	25% Future Demand Allowance: 16.22 kVA									
Power									0.70 kVA	100.00%	0.70 kVA	Total Estimated Demand Load: 81.09 kVA									
Receptacle									9.12 kVA	100.00%	9.12 kVA										
Motor - Largest									2.29 kVA	125.00%	2.86 kVA	Total Estimated Demand Current: 225 A									

Panel: P1B

Design Selection: SQ, D, NQ
Mains Rating: 225 A
Type: MLO

Voltage: 208Y/120V
Phases: 3
Wires: 4
Mounting: SURFACE

Minimum A.I.C. Rating: 25,000 AIC
Location: ELEC 111
Served From: P1A
Modifications: N/A

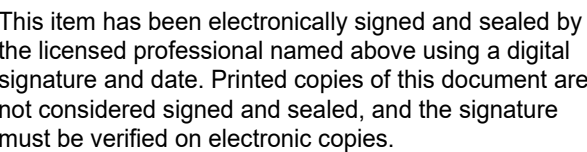
Note	Trip Amps	Poles	Description	Wire	Neut	Gnd	Cond	No.	A	B	C	No.	Cond	Gnd	Neut	Wire	Description	Poles	Trip Amps	Note	
--	30 A	2	ACU-01	(2) 10	--	10	1"	1	0.83 kVA	1.92 kVA		2	3/4"	12	12	12	REC. - RM. 109	1	20 A	--	
--	20 A	1	REC. - RM. 106 - 108	12	12	12	3/4"	5		0.83 kVA	1.92 kVA		4	3/4"	12	12	12	REC. - RM. 109	1	20 A	--
--	20 A	1	REC. - RM. 101	12	12	12	3/4"	7	0.54 kVA	0.72 kVA		6	3/4"	12	12	12	REC. - HALL & RM. 112	1	20 A	--	
--	20 A	1	REC. - RM. 101	12	12	12	3/4"	9		0.54 kVA	0.72 kVA		8	3/4"	12	12	12	REC. - RM. 101	1	20 A	--
--	20 A	1	REC. - RM. 110	12	12	12	3/4"	11			3.60 kVA	1.20 kVA	10	3/4"	12	12	12	REC. - RM. 101	1	20 A	--
--	20 A	1	REC. - N EXTERIOR	12	12	12	3/4"	13	0.54 kVA	0.40 kVA		12	3/4"	12	12	12	N DOOR PWR. SUP.	1	20 A	--	
--	20 A	1	N LIGHTING EXTERIOR	10	10	10	1"	15		0.27 kVA	0.32 kVA		14	3/4"	10	10	10	LIGHTING - RM. 106 - 112	1	20 A	--
--	20 A	1	LIGHTING - HALLWAY	10	10	10	3/4"	17			0.34 kVA	0.52 kVA	16	3/4"	10	10	10	STORAGE LIGHTING 101	1	20 A	--
--	20 A	1	STORAGE LIGHTING 101	10	10	10	3/4"	19	0.34 kVA	0.52 kVA		18	3/4"	10	10	10	STORAGE LIGHTING 101	1	20 A	--	
--	20 A	1	STORAGE LIGHTING 101	10	10	10	3/4"	21		0.86 kVA	0.50 kVA	20	3/4"	12	12	12	TV SYS - RM. 109	1	20 A	2	
--	20 A	2	CF-05 - RM. 101	(2) 10	--	10	3/4"	23			1.15 kVA	0.50 kVA	22	3/4"	12	12	12	TV SYS - RM. 109	1	20 A	2
--	20 A	2	CF-06 - RM. 101	(2) 10	--	10	3/4"	25	1.15 kVA	0.55 kVA		24	3/4"	12	12	12	ROLL UP. DOOR - RM. 101	3	20 A	--	
--	20 A	2	CF-06 - RM. 101	(2) 10	--	10	3/4"	27		1.15 kVA	0.55 kVA	26	1"	12	--	(3) 12	ROLL UP. DOOR - RM. 101	3	20 A	--	
--	20 A	1	REC. - RM. 109 - TV	12	12	12	3/4"	29			1.15 kVA	0.55 kVA	28	1"	12	--	(3) 12	ROLL UP. DOOR - RM. 101	3	20 A	--
--	20 A	1	REC. - RM. 101	12	12	12	3/4"	31	3.78 kVA	0.55 kVA		30	1"	12	--	(3) 12	ROLL UP. DOOR - RM. 101	3	20 A	--	
--	20 A	1	REC. - RM. 202 - BDA	12	12	12	3/4"	33		0.54 kVA	0.55 kVA	32	1"	12	--	(3) 12	ROLL UP. DOOR - RM. 101	3	20 A	--	
--	20 A	1	REC. - RM. 202 - BDA	12	12	12	3/4"	35			0.50 kVA	0.55 kVA	34	1"	12	--	(3) 12	ROLL UP. DOOR - RM. 101	3	20 A	--
--	30 A	2	UH-1	(2) 10	--	10	1"	37	1.50 kVA	0.20 kVA		36	3/4"	10	10	10	FACP, DIGITAL COMMS	1	20 A	1	
--	30 A	2	UH-1	(2) 10	--	10	1"	39		1.50 kVA	1.68 kVA	38	1"	10	--	(2) 10	FACP, DIGITAL COMMS	1	20 A	1	
2	20 A	1	WATER COOLER	12	12	12	3/4"	41			0.18 kVA	1.68 kVA	40	1"	10	--	(2) 10	WATER COOLER	2	20 A	--
--	60 A	2	AHU-02 - RM. 201	(2) 6	--	8	1-1/4"	43	4.50 kVA	1.25 kVA		42	1"	12	--	(2) 12	AHU-02	2	30 A	--	
--	20 A	1	EF-02, EF-03, EF-04	12	12	12	3/4"	45		4.50 kVA	1.25 kVA	44	1"	12	--	(2) 12	EF-02, EF-03, EF-04	2	30 A	--	
--	20 A	1	SPARE	--	--	--	--	47			1.50 kVA	0.25 kVA	46	1-1/2"	6	--	(2) 2	SPARE	100 A	2	
--	20 A	1	SPARE	--	--	--	--	49	0.00 kVA	0.25 kVA		48	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	SPARE	--	--	--	--	51		0.00 kVA	0.00 kVA	50	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	SPARE	--	--	--	--	53			0.00 kVA	0.00 kVA	52	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	55	0.00 kVA	0.00 kVA		54	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	SPARE	--	--	--	--	57		0.00 kVA	0.00 kVA	56	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	SPARE	--	--	--	--	59			0.00 kVA	0.00 kVA	58	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	61	0.00 kVA	0.00 kVA		60	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	SPARE	--	--	--	--	63		0.00 kVA	0.00 kVA	62	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	SPARE	--	--	--	--	65			0.00 kVA	0.00 kVA	64	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	67	0.00 kVA	0.00 kVA		66	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	SPARE	--	--	--	--	69		0.00 kVA	0.00 kVA	68	--	--	--	--	SPARE	1	20 A	--	
--	20 A	1	SPARE	--	--	--	--	71			0.00 kVA	0.00 kVA	70	--	--	--	--	SPARE	1	20 A	--
--	20 A	1	SPARE	--	--	--	--	71			0.00 kVA	0.00 kVA	72	--	--	--	--	SPARE	1	20 A	--
Total									19.54 kVA	17.68 kVA	17.99 kVA										
Load Classification									Connected Load	Demand Factor	Demand Load	Load Summary									
Equipment									28.54 kVA	100.00%	28.54 kVA	Total Connected Load: 55 kVA									
HVAC									10.49 kVA	100.00%	10.49 kVA										
Lighting									3.17 kVA	100.00%	3.17 kVA	Estimated Demand Load: 55 kVA									
Motor									4.58 kVA	100.00%	4.58 kVA	25% Future Demand Allowance: 13.80 kVA									
Power									0.60 kVA	100.00%	0.60 kVA	Total Estimated Demand Load: 69.00 kVA									
Receptacle									7.82 kVA	100.00%	7.82 kVA										
												Total Estimated Demand Current: 192 A									

1. REFER TO POWER PLANS FOR RECEPTACLE LOCATIONS. WHERE 120V RECEPTACLES ARE IN CLOSE PROXIMITY TO COMMUNICATIONS DEVICES, SUCH DEVICES SHALL BE INSTALLED AT SAME HEIGHT AS RECEPTACLES WITH NO MORE THAN 2" OF SEPARATION BETWEEN THEM.
2. CONDUITS FOR DATA SHALL BE INCREASED BY ONE STANDARD TRADE SIZE FOR ALL RUNS WHICH REQUIRE MORE THAN (1) 90 DEGREE BEND.

1. IN THE MOST DIRECT ROUTE POSSIBLE PROVIDE (3) 4" UNDER GROUND CONDUITS, FIELD COORDINATE EXACT LOCATION OF HANDHOLE AND COMM ROOM PRIOR TO INSTALLATION OF CONDUITS.
2. 1" UNDERGROUND CONDUIT FOR CONNECTION OF GENERATOR AND ATS-1 TO BMS SYSTEM LOCATED IN MECH ROOM ON MEZZANINE.
3. PROVIDE 1 1/4" CONDUIT UNDERGROUND UP THROUGH WALL FURR OUT AND TERMINATE IN CEILING SPACE.



**FLORIDA POWER & LIGHT COMPANY
COLUMBIA STORM PROCESSING FACILITY
ISC STORES / PGD WAREHOUSE
BUILDING E
COLUMBIA COUNTY, FLORIDA**



DESIGNED BY

DRAWN BY

BRPH

PROJECT NUMBER
0000000000000000

C09414.003.00

DATE
00/15/2000

03/15/2026

title

FIRST FLOOR SYSTEMS PLAN

DRAWING NO.

e-T101

1. REFER TO POWER PLANS FOR RECEPTACLE LOCATIONS. WHERE 120V RECEPTACLES ARE IN CLOSE PROXIMITY TO COMMUNICATIONS DEVICES, SUCH DEVICES SHALL BE INSTALLED AT SAME HEIGHT AS RECEPTACLES WITH NO MORE THAN 2" OF SEPARATION BETWEEN THEM.
2. CONDUITS FOR DATA SHALL BE INCREASED BY ONE STANDARD TRADE SIZE FOR ALL RUNS WHICH REQUIRE MORE THAN (1) 90 DEGREE BEND.

1. PROVIDE EMERGENCY CONDUIT WITH NYLON PULLSTRUNG FROM DDC PANEL TO FIRE ALARM PANEL LOCATED IN BREAK ROOM ON FIRST FLOOR.
2. OWNER PROVIDED CAMERA MOUNTED JUST BELOW ROOF DECK. COORDINATE LOCATION WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. REFER TO DETAIL 5-01 ON DRAWING B-E501.
3. OWNER PROVIDED RAPP DEVICE MOUNTED JUST BELOW ROOF DECK. COORDINATE LOCATION WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. REFER TO DETAIL 5-01 ON DRAWING B-E501.
4. 3" UNDERGROUND CONDUIT FROM FUTURE BDA HEAD END EQUIPMENT TO DONOR ANTENNA MOUNTED TO BUILDING ABOVE THE CANOPY. COORDINATE EXACT LOCATION AND REQUIREMENTS OF ANTENNA WITH VENDOR.

