



PROJECT NO: 571990 DATE: MAY 22, 2019

REVISIONS table with columns for DATE, DESCRIPTION, and REVISIONS.

GENERAL NOTES

- A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL...
B. FOLLOW MOUNTING HEIGHTS INDICATED IN THE ELECTRICAL LEGEND UNLESS OTHERWISE INDICATED...
C. EQUIPMENT CONNECTIONS ARE INDICATED IN THEIR APPROXIMATE LOCATIONS...
D. LOCATE ALL SWITCHES FOR LOCAL CONTROL OF LIGHTING ON STRIKE SIDE OF SINGLE DOORS UNLESS OTHERWISE INDICATED...
E. PROVIDE SPECIFIC BREAKER ARRANGEMENT FOR THE PANEL BOARDS WHEREVER PHYSICALLY POSSIBLE...
F. ALL CONDUIT RUNS INDICATED ARE DIAGRAMMATIC...
G. ALL PANELBOARDS INDICATED ARE HOUSED IN A SINGLE WIDTH ENCLOSURE...
H. WHERE POWER AND COMMUNICATION OUTLETS ARE INDICATED IN CLOSE PROXIMITY ON THE DRAWINGS...
I. ALL EXTERIOR RECEPTACLES SHALL BE LABELED "WR" - WEATHER RESISTANT...
J. WHEN GROUPING MULTIPLE LINE TO NEUTRAL BRANCH CIRCUITS IN A CONDUIT...
K. PROVIDE A 2" WIDE YELLOW LINE PAINTED ON THE FLOOR INDICATING THE ELECTRICAL WORKING SPACE...

ABBREVIATIONS

Table of abbreviations including 1P SINGLE PHASE, 3P THREE PHASE, AFF ABOVE FINISHED FLOOR, AL ALUMINUM, ATS AUTOMATIC TRANSFER SWITCH, BFC BELOW FINISHED CEILING, BFG BELOW FINISHED GRADE, CB CONDUIT, CATV COMMUNITY ANTENNA TELEVISION (CABLE), CB CIRCUIT BREAKER, CBL CABLE, CCTV CLOSED CIRCUIT TELEVISION, CKT CIRCUIT, CLG CEILING, CLR CLEAR, CO COMPANY, COMB COMBINATION, COMM COMMUNICATIONS, CU COPPER, DIA DIAMETER, DISC DISCONNECT, DIV DIVISION, DWG DRAWING, EBH ELECTRIC BASEBOARD HEATER, EC EMPTY CONDUIT, ECS EMERGENCY COMMUNICATIONS STATION, ELEC ELECTRICAL, ELEV ELEVATOR, EPO EMERGENCY POWER OFF, EQ EQUIPMENT, ETR EXISTING TO REMAIN, EWC ELECTRIC WATER COOLER, EX EXISTING, EXT EXTERIOR, FA FIRE ALARM, FAAP FIRE ALARM ANNUNCIATOR PANEL, FACP FIRE ALARM CONTROL PANEL, FAGP FIRE ALARM GRAPHIC PANEL, FAXP FIRE ALARM EXTENDER PANEL, FFSCP FIRE FIGHTER'S SMOKE CONTROL PANEL, FLA FULL LOAD AMPS, FPMR FUSE PER MANUFACTURERS REQUIREMENTS/RECOMMENDATIONS, FPND FUSE PER NAMEPLATE DATA, G GROUND, GE GROUND FAULT PROTECTION FOR EQUIPMENT, 6-50mA PER NEC 47.22 (PROVIDE ACCESSORY FOR INDICATED BREAKER), GFCI GROUND FAULT CIRCUIT INTERRUPT, GFFP GROUND FAULT PROTECTION FOR PERSONNEL, 4-6mA (PROVIDE ACCESSORY FOR INDICATED BREAKER), HKP HOUSEKEEPING PAD, HP HORSEPOWER, HPS HIGH PRESSURE SODIUM, HZ HERTZ, INW IN ACCORDANCE WITH, IG ISOLATED GROUND, J-BOX JUNCTION BOX, KHFS KITCHEN HOOD FIRE SUPPRESSION SYSTEM, KHZ KILOHERTZ, KVA KILOVOLT AMPS, KW KILOWATTS, KWH KILOWATT HOURS, L LOCKOUT TO PREVENT UNAUTHORIZED SWITCHING (PROVIDE ACCESSORY FOR INDICATED BREAKER), LC ROUTE CIRCUIT TO LOAD VIA LIGHTING CONTACTOR, REFER TO LC SCHEDULE, LED LIGHT EMITTING DIODE, LTG LIGHTING, LTS LIGHTS, MAX MAXIMUM, NCA MINIMUM CIRCUIT AMPACITY, NCB MAIN CIRCUIT BREAKER, MCC MOTOR CONTROL CENTER, MH METAL HALIDE, Mhz MEGAHERTZ, MIN MINIMUM, ML MAINTENANCE LOCK (PROVIDE ACCESSORY FOR INDICATED BREAKER), MLO MAIN LUG ONLY, MNS MASS NOTIFICATION SYSTEM, MOPP MAXIMUM OVER CURRENT PROTECTION, MOUNT MOUNTED, N NEUTRAL, NC NORMALLY CLOSED, NO NORMALLY OPEN, NO NUMBER, OFCI OWNER FURNISHED CONTRACTOR INSTALLED, P PILOT LIGHT (AT THE SWITCH HANDLE), PBD PANELBOARD, PD PROTECTIVE DEVICE, RCP RECEPTACLE, REC RECEPTACLE, SEC SECURITY, SPD SURGE PROTECTIVE DEVICE (SPECIFICATIONS), ST SHUNT TRIP, 120V COIL (PROVIDE ACCESSORY FOR INDICATED BREAKER), SW SWITCH, SWBD SWITCHBOARD, TBB TELECOMMUNICATIONS BONDING BACKBONE, TC TELECOMMUNICATIONS CLOSET, TELECOM TELECOMMUNICATIONS, TGB TELECOMMUNICATIONS GROUNDING BUS BAR, TMGB TELECOMMUNICATIONS MAIN GROUNDING BUS BAR, TYP TYPICAL, UNO UNLESS NOTED (INDICATED) OTHERWISE, V VOLTS, VFD VARIABLE FREQUENCY DRIVE, W WATTS, W WITH, WG WIRE GUARD, WP WEATHERPROOF, XFER TRANSFER, XFMR TRANSFORMER

COMMUNICATIONS LEGEND

- NOTE: REFER TO TYPICAL COMMUNICATION OUTLET DETAIL FOR BOX & CONDUIT REQUIREMENTS. REFER TO TELECOMMUNICATION DEVICE DETAILS FOR CABLE AND TERMINAL JACK REQUIREMENTS.
SYMBOL DESCRIPTION
▽ TELECOMMUNICATIONS OUTLET, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. MOUNT AT +3'-10" AFF.
▽X TELECOMMUNICATIONS OUTLET, SUBSCRIPT NUMBER INDICATES OUTLET TYPE. MOUNT AT +1'-6" AFF.
▽X [MISC COMMUNICATIONS OUTLET], MOUNT AT +1'-6" AFF.
▽ RECESSED FLOOR MOUNT DEVICE COMPLETE WITH FITTINGS FOR FLOOR COVERING.
▽ INTERCOM STATION WITH PUSHBUTTON, MOUNT AT +4'-6" AFF.
▽ [MISC COMMUNICATIONS OUTLET], MOUNT AT +4'-6" AFF.
▽ PUSHBUTTON SWITCH, MOUNT AT +4'-6" AFF. SUBSCRIPT "E" INDICATES EMERGENCY FUNCTIONS.
▽ CATV OUTLET, MOUNT AT +1'-6" [7'-6" AFF.
▽ WALL CLOCK, MOUNT AT +7'-6" AFF. SUBSCRIPT "D" INDICATES DOUBLE FACE CLOCK.
▽ WALL CLOCK, CEILING MOUNT. SUBSCRIPT "D" INDICATES DOUBLE FACE CLOCK. ARROWS INDICATE FACE DIRECTION.
▽ MICROPHONE OUTLET, WALL MOUNT AT +1'-6" AFF. FLUSH FLOOR MOUNT. SUBSCRIPT NUMBER INDICATES NUMBER OF JACKS TO PROVIDE IN OUTLET.
▽ SOUND SYSTEM SPEAKER, RECESS WALL MOUNT AT +7'-6" AFF. "WG" WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD.
▽ SOUND SYSTEM SPEAKER, RECESS CEILING MOUNT. "WG" WHERE PRESENT INDICATES PROVIDE PROTECTIVE WIRE GUARD.
▽ POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO TYPICAL COMMUNICATION OUTLET DETAIL.
▽ POWER/COMMUNICATIONS RECESSED FLOOR BOX ON EMERGENCY POWER. SUBSCRIPT LETTER INDICATES OUTLET TYPE. REFER TO TYPICAL COMMUNICATION OUTLET DETAIL.
▽ POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS (1) EACH AT OPPOSITE SIDES, TO STUB-UP AT NEAREST COMMUNICATION CROSS-CONNECT. UNO. REFER TO TYPICAL COMMUNICATION OUTLET DETAIL.
▽ POWER/COMMUNICATIONS POKE-THRU FLOOR BOX ON EMERGENCY POWER. SUBSCRIPT LETTER INDICATES OUTLET TYPE. (2) 3/4" CONDUITS (1) EACH AT OPPOSITE SIDES, TO STUB-UP AT NEAREST COMMUNICATION CROSS-CONNECT. UNO. REFER TO TYPICAL COMMUNICATION OUTLET DETAIL.
▽ SYSTEM FURNITURE COMMUNICATIONS CONNECTIONS VIA FLOOR BOX. PROVIDE 1.25" CONDUIT BELOW SLAB TO STUB-UP AT NEAREST COMMUNICATION BACK BOARD. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
▽ SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA FLUSH WALL BOX MOUNTED +4" AFF. PROVIDE 1.25" CONDUIT WITH BUSHING FROM BOX TO ABOVE CEILING. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
▽ SYSTEM FURNITURE COMMUNICATIONS CONNECTION VIA POWER POLE FURNISHED WITH SYSTEM FURNITURE. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
▽ WIRELESS ACCESS POINT
▽ COMMUNICATIONS EQUIPMENT RACK
▽ 2" EMT CONDUIT SLEEVE WITH NYLON BUSHING EACH END UNO, THRU WALL AT +6" ABOVE FINISHED CEILING.
▽ TELECOMMUNICATIONS GROUND BUS BAR, MOUNT AT +1'-6" AFF.
▽ TELECOMMUNICATIONS MAIN GROUND BUS BAR, MOUNT AT +1'-6" AFF.
▽ CABLE TRAY, MOUNT AT +6" ABOVE FINISHED CEILING.

LIGHTING LEGEND

- SYMBOL DESCRIPTION
5 LIGHT SWITCH, RATED 120/277 VOLTS, 20-AMPS, MOUNT AT +3'-10" AFF. SUBSCRIPT/SUPERSUBSCRIPT LETTERS, NUMBERS, AND SYMBOLS INDICATES SWITCH TYPE AS FOLLOWS:
3 INDICATES 3-WAY LIGHT SWITCH
4 INDICATES 4-WAY LIGHT SWITCH
D INDICATES DIMMER SWITCH
P INDICATES PILOT LIGHT, ON WHEN SWITCH IS ON
K INDICATES KEY OPERATED LIGHT SWITCH
OS INDICATES SWITCH WITH INTEGRAL OCCUPANCY SENSOR
OD INDICATES DIMMER SWITCH WITH INTEGRAL OCCUPANCY SENSOR
OS 2 INDICATES DUAL RELAY INTEGRAL OCCUPANCY SENSOR, WIRED FOR MULTI-LEVEL SWITCHING
LOWER CASE LETTER INDICATES LIGHT FIXTURE CONTROL DESIGNATION
INDICATES SWITCHES WIRED FOR INBOARD/OUTBOARD SWITCHING.
OMNI-DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, CEILING MOUNT.
DIRECTIONAL LIGHTING CONTROL OCCUPANCY DETECTOR, WALL MOUNT AT 6" BELOW FINISHED CEILING.
PHOTOELECTRIC CELL FOR LIGHTING CONTROL, WALL MOUNT AT +10" AFF. AIM NORTH.
○ LIGHT FIXTURE, CEILING MOUNT.
○ LIGHT FIXTURE ON EMERGENCY POWER, CEILING MOUNT.
○ LIGHTING FIXTURE.
○ LIGHTING FIXTURE ON EMERGENCY POWER.
○ WALL WASHER LIGHTING FIXTURE.
○ LIGHT FIXTURE, WALL MOUNT, HEIGHT AS INDICATED.
○ EMERGENCY EGRESS LIGHTING FIXTURE, WITH BATTERY PACK, WALL MOUNT AT +8'-0" AFF.
○ EXIT SIGN, CEILING MOUNT, DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
○ EXIT SIGN, WALL MOUNT, DIRECTIONAL ARROWS AS INDICATED. SHADING INDICATES FACE(S) OF SIGN.
○ TRACK LIGHTS.
○ LIGHT FIXTURE, POLE MOUNT.
○ SPORTS LIGHTING POLE.

SECURITY LEGEND

- SYMBOL DESCRIPTION
DIRECTIONAL SECURITY MOTION DETECTOR, WALL MOUNT 6" BFC.
OMNI-DIRECTIONAL SECURITY MOTION DETECTOR.
FUTURE CCTV MOUNTING LOCATION, CEILING MOUNT. PROVIDE 20' OF COAXIAL CABLE COILED ABOVE CEILING FOR FUTURE INSTALLATION OF SECURITY CAMERA. RUN CABLE TO ROOM XXXX AND COIL 20' OF CABLE INSIDE ROOM.
FUTURE CCTV MOUNTING LOCATION, WALL MOUNT. PROVIDE 20' OF COAXIAL CABLE COILED ABOVE CEILING FOR FUTURE INSTALLATION OF SECURITY CAMERA. RUN CABLE TO ROOM XXXX AND COIL 20' OF CABLE INSIDE ROOM.
DOOR POSITION SWITCH.
STATUS CONTACT.
CARD READER, MOUNT AT 3'-10" AFF.
CARD READER WITH KEYPAD, MOUNT AT 3'-10" AFF.
REMOTE KEYPAD FOR SECURITY SYSTEM, MOUNT AT 3'-10" AFF.
ELECTRIC DOOR STRIKE.
ELECTRIC DOOR LOCK.
PNEUMATIC DOOR LOCK.
TALK THROUGH COMMUNICATOR.
DURESS ALARM PUSHBUTTON, MOUNT IN CASEWORK AS INDICATED.

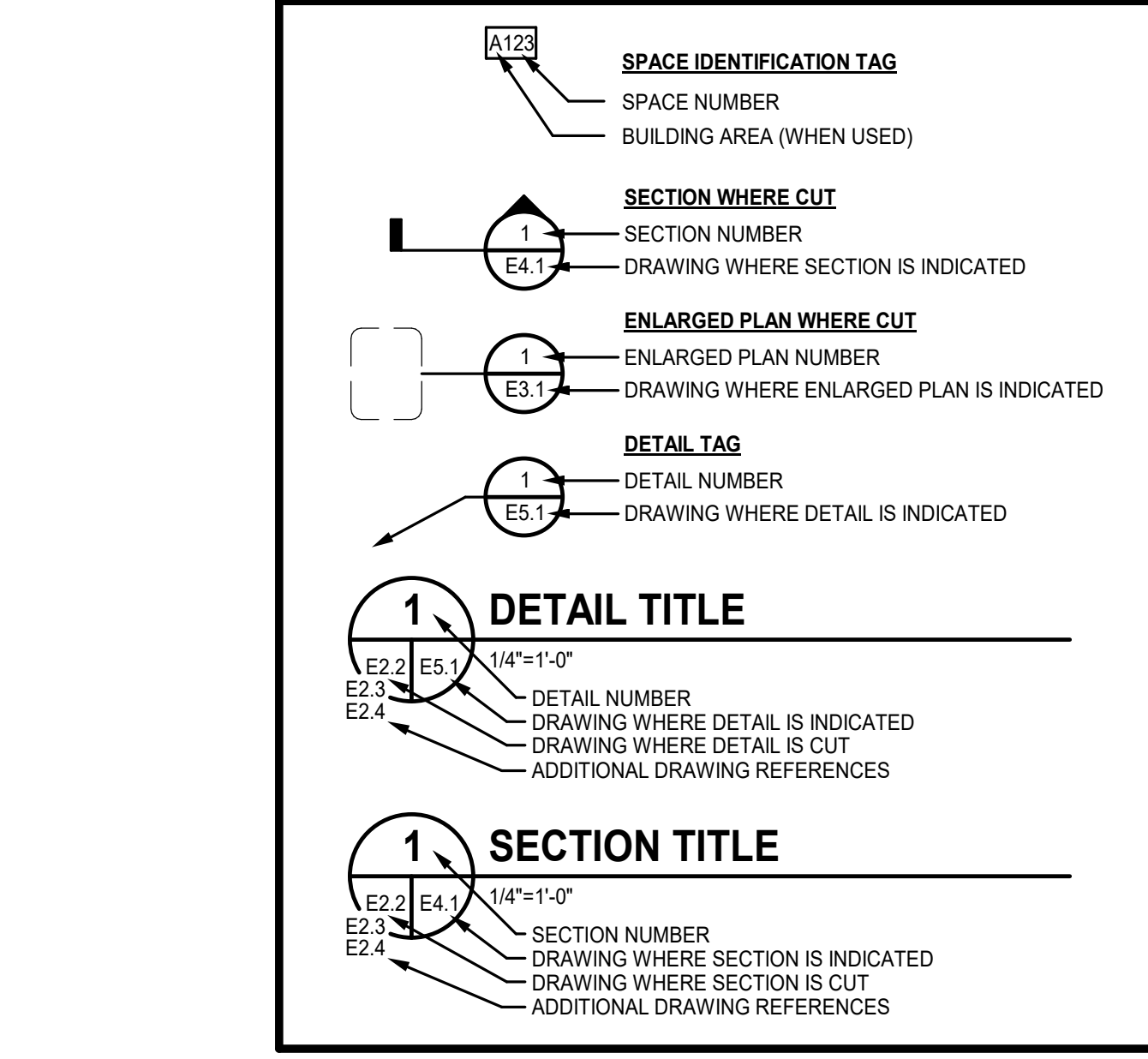
POWER LEGEND

- SYMBOL DESCRIPTION
APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED.
APPLIANCE RECEPTACLE, MOUNT AT +1'-6" AFF. PROVIDE NEMA CONFIGURATION TO MATCH PLUG FOR EQUIPMENT SERVED. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +7'-6" AFF.
DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. PROVIDE NEMA 3R "WHILE IN USE" ENCLOSURE.
GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
GFCI DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICE.
DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, RECESS FLOOR MOUNT.
SINGLE RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
SINGLE RECEPTACLE, NEMA 5-20R, MOUNT AT +3'-10" AFF.
SPD DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT AT +1'-6" AFF.
POWER/COMMUNICATIONS RECESSED FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
POWER/COMMUNICATIONS RECESSED FLOOR BOX. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICES. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
POWER/COMMUNICATIONS POKE THRU FLOOR BOX. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
POWER/COMMUNICATIONS POKE THRU FLOOR BOX. CONNECT TO EMERGENCY POWER, PROVIDE RED DEVICES. SUBSCRIPT NUMBER INDICATES OUTLET TYPE. REFER TO DETAIL ON E4 SERIES DRAWINGS.
SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLOOR BOX. COORDINATE WITH SYSTEM FURNITURE PROVIDER PRIOR TO ROUGH-IN.
SYSTEM FURNITURE FLEX POWER CABLE CONNECTION VIA FLUSH WALL BOX MOUNTED 4" AFF. COORDINATE WITH FURNITURE PROVIDER PRIOR TO ROUGH-IN.
POWER/COMMUNICATIONS POWER POLE, FURNISHED WITH (NIC) SYSTEM FURNITURE. PROVIDE J-BOX MTD TO STRUCTURE ABOVE CLG, AND FLEXIBLE CONDUIT CONNECTION TO J-BOX MTD TO TOP OF POLE AND CONNECTED TO PIGTAIL(S) FURNISHED WITH POLE. POLE LOCATION IS APPROXIMATE. COORDINATE WITH SYSTEM FURNITURE PROVIDER.
LINE VOLTAGE THERMOSTAT, DIVISION 23 FURNISH, DIVISION 28 INSTALL. REFER TO DIVISION 23 DRAWINGS FOR LOCATIONS AND QUANTITY.
PUSHBUTTON CONTROLLER.
PUSHBUTTON.
CORD REEL OUTLET, CEILING MOUNT.
[NON] METALLIC SURFACE RACEWAY, DEVICES AS INDICATED, MOUNT AT +1'-6" AFF, UNO.
JUNCTION BOX, CONCEALED ABOVE CEILING, UNO.
JUNCTION BOX, UNDER FLOOR MOUNT.
ENCLOSED CIRCUIT BREAKER, CHARACTERISTICS AS INDICATED.
MUSHROOM SWITCH, HEAVY DUTY WITH LEGEND PLATE, MOUNT WHANDLE AT +3'-10" AFF, UNO.
MANUAL MOTOR STARTER, OVERLOAD PROTECTION AS REQUIRED PER NAME PLATE RATINGS, WITH 'ON' INDICATOR PILOT LIGHT. FLUSH MOUNT WHANDLE AT +3'-10" AFF, UNO.
DISCONNECT SWITCH, FUSIBLE OR NON-FUSIBLE AS INDICATED, MOUNT WHANDLE AT +4'-6" AFF, UNO.
COMBINATION MAGNETIC STARTER AND DISCONNECT SWITCH, WITH OVERLOAD ELEMENTS AND FUSING AS REQUIRED TO SERVE MANUFACTURER REQUIREMENTS OF EQUIPMENT SERVED, PROVIDE WITH HAND-OFF-AUTOMATIC SELECTOR SWITCH AND INDICATOR LIGHTS. MOUNT WHANDLE AT +4'-6" AFF, UNO.
EMERGENCY POWER CONNECTION.
MOTOR CONNECTION.
CONNECTION TO DIV 23 MOTORIZED DAMPER, VERIFY LOCATION.
POWER FOR ELECTRIC DOOR LOCK CONNECTION.
POWER FOR ELECTRIC DOOR STRIKE CONNECTION.
EMERGENCY GENERATOR.
BRANCH CIRCUIT RUN CONCEALED, UNO. DASHED INDICATES CIRCUITRY REQUIRED TO BE RUN BELOW SLAB.
STRAIGHT LINEWORK FOR CIRCUITRY INDICATES ON EMERGENCY POWER CIRCUIT. INDICATED FOR CLARITY ONLY, ACTUAL HOMERUN DESIGNATION OVERRIDES THIS SYMBOLLOGY.
BRANCH CIRCUIT HOME RUN TO PANELBOARD AND CIRCUIT INDICATED.
PANELBOARD.
TRANSFORMER, PROVIDE CONCRETE HOUSEKEEPING PAD UNLESS NOTED OTHERWISE.
RELAY, NO OR NC AS INDICATED.
RELAY, NORMALLY OPEN.
RELAY, NORMALLY CLOSED.
FEEDER TAG. REFER TO FEEDER SCHEDULE ON DWG E5.1.

FIRE ALARM LEGEND

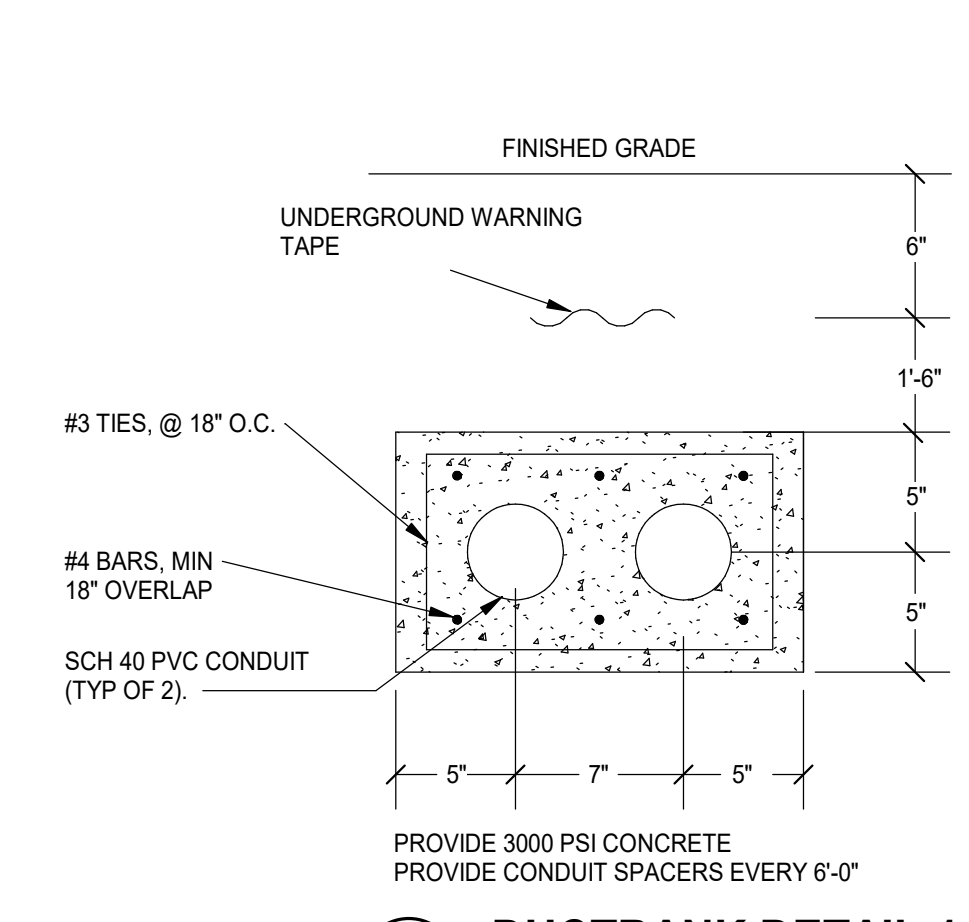
- SYMBOL DESCRIPTION
FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, MOUNT AT 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. #/# INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, 80" AFF AND NOT MORE THAN 96". SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. #/# INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING.
FIRE ALARM AUDIO/VISUAL NOTIFICATION DEVICE WITH DEVICE GUARD, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. #/# INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
FIRE ALARM VISUAL STROBE NOTIFICATION DEVICE, CEILING MOUNTED. SUBSCRIPT NUMBER INDICATES STROBE CANDELA RATING. #/# INDICATES STROBE SETTING AND REDUCED EFFECTIVE OUTPUT WHEN DEVICE GUARD IS PRESENT.
FIRE ALARM MANUAL PULL STATION, MOUNT AT +3'-10" AFF.
FIRE ALARM KEY OPERATED MANUAL PULL STATION, MOUNT AT +3'-10" AFF.
FIRE ALARM DUCT SMOKE DETECTOR, FURNISH AND CONNECT UNDER DIVISION 28. INSTALL UNDER DIVISION 23. VERIFY LOCATION WITH DIVISION 23 PRIOR TO ROUGH-IN. PROVIDE ACCESSIBLE KEY OPERATED REMOTE TEST SWITCH FOR EACH DETECTOR.
SMOKE DETECTOR, CEILING MOUNT. SUBSCRIPT "G" WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
HEAT DETECTOR, CEILING MOUNT. SUBSCRIPT "G" WHEN PRESENT INDICATES PROVIDE DEVICE GUARD.
FIRE ALARM TAMPER SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
FIRE ALARM FLOW SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
POST INDICATOR VALVE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
FIRE ALARM PRESSURE SWITCH, PROVIDE UNDER DIVISION 23, MONITOR UNDER DIVISION 28.
FIRE ALARM REMOTE INDICATOR, CEILING MOUNT.
FIRE ALARM MONITOR MODULE, NOT ALL MONITOR MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED MONITORING FUNCTIONS.
FIRE ALARM CONTROL MODULE, NOT ALL CONTROL MODULES ARE INDICATED ON DRAWINGS. PROVIDE QUANTITY AND IN LOCATIONS REQUIRED TO ACCOMPLISH SPECIFIED CONTROL FUNCTIONS.
FIRE ALARM SPRINKLER BELL, MOUNT AT +10'-0" AFF.
FIRE ALARM MAGNETIC DOOR HOLDER, WALL MOUNT DEVICE AT 6" BELOW TOP OF DOOR. PROVIDE HINGED MAGNETIC CATCH PLATE ON DOOR TO MATE WITH DEVICE. COORDINATE LOCATION AND LENGTH WITH DIVISION 08. PROVIDE CONCEALED 120VOLT POWER CONNECTION AND FIRE ALARM CONTROL MODULE IF REQUIRED FOR PROPER OPERATION.
FIRE ALARM DOOR HOLDER/CLOSER HARDWARE UNDER DIVISION 08, MONITOR AND CONTROL INTERFACE WITH FIRE ALARM UNDER DIVISION 28.
FIRE ALARM/POWER CONNECTION TO DIVISION 23 SMOKE OR FIRE/SMOKE DAMPER. COORDINATE WITH DIVISION 23. REFER TO TYPICAL FIRE/SMOKE DAMPER DIAGRAM.

GRAPHICS SYMBOLS LEGEND

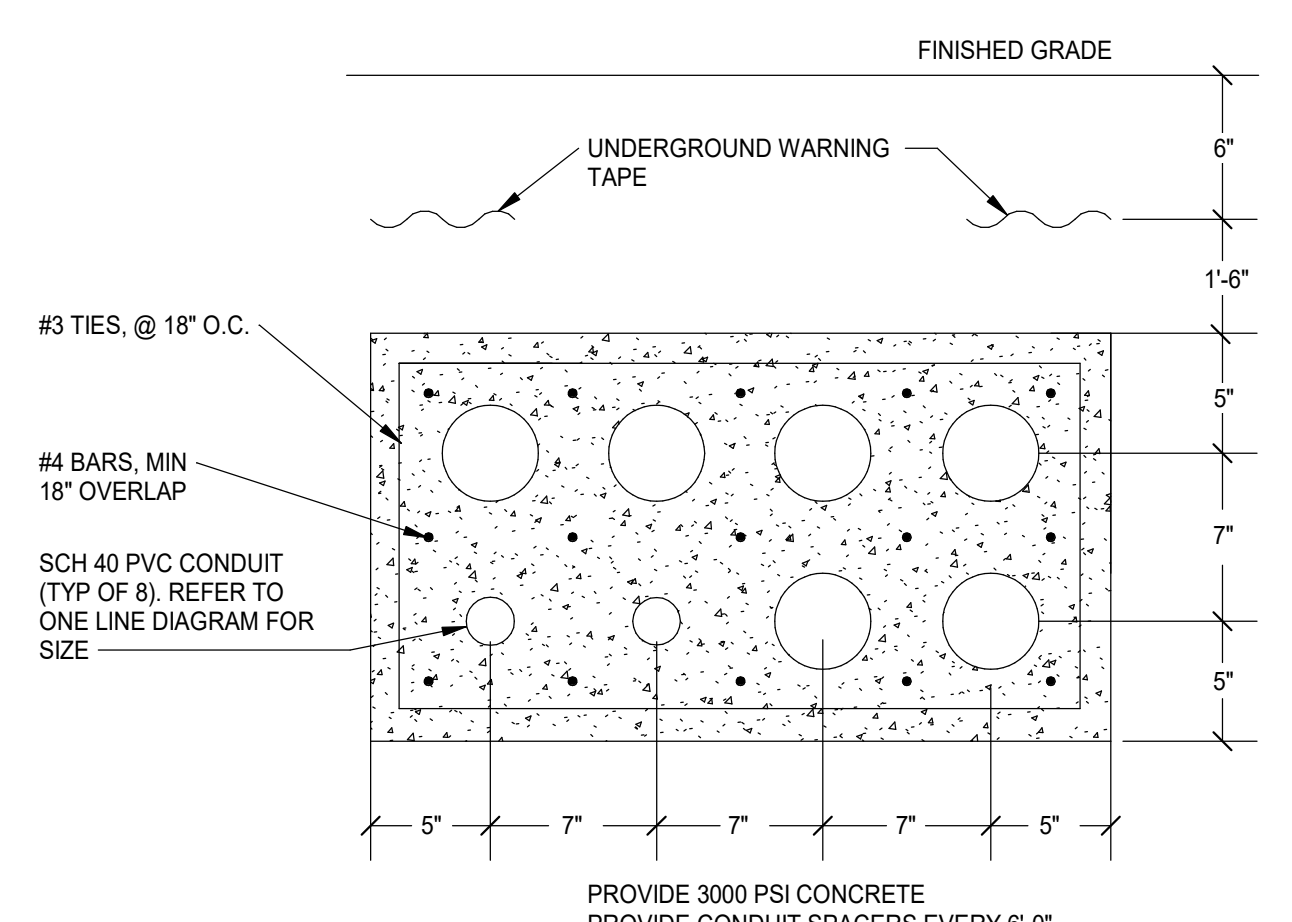


AVERAGE MAINTAINED ILLUMINATION LEVELS

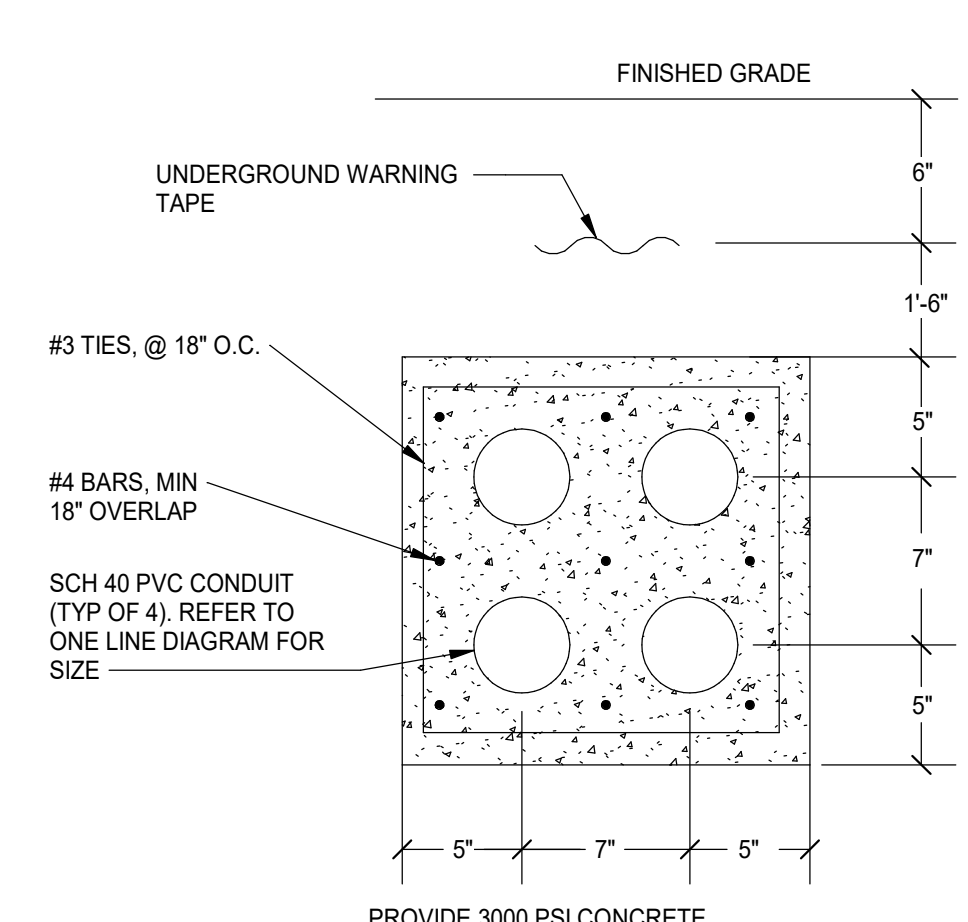
Table with columns for TASK and FOOT CANDLES. Includes rows for Classrooms (55), Media Center (55), Offices (50), Business (55), Studio (60), Science Lab (70), Electrical Rooms (30), Mechanical Rooms (30), Computer Labs (30), CVM (50), Locker Rooms (20), Lobbies/Corridors (15), Toilets (20), Kitchen (70), Dining (40), Auditorium (10-30), Storerooms (20), Whiteboards (30).



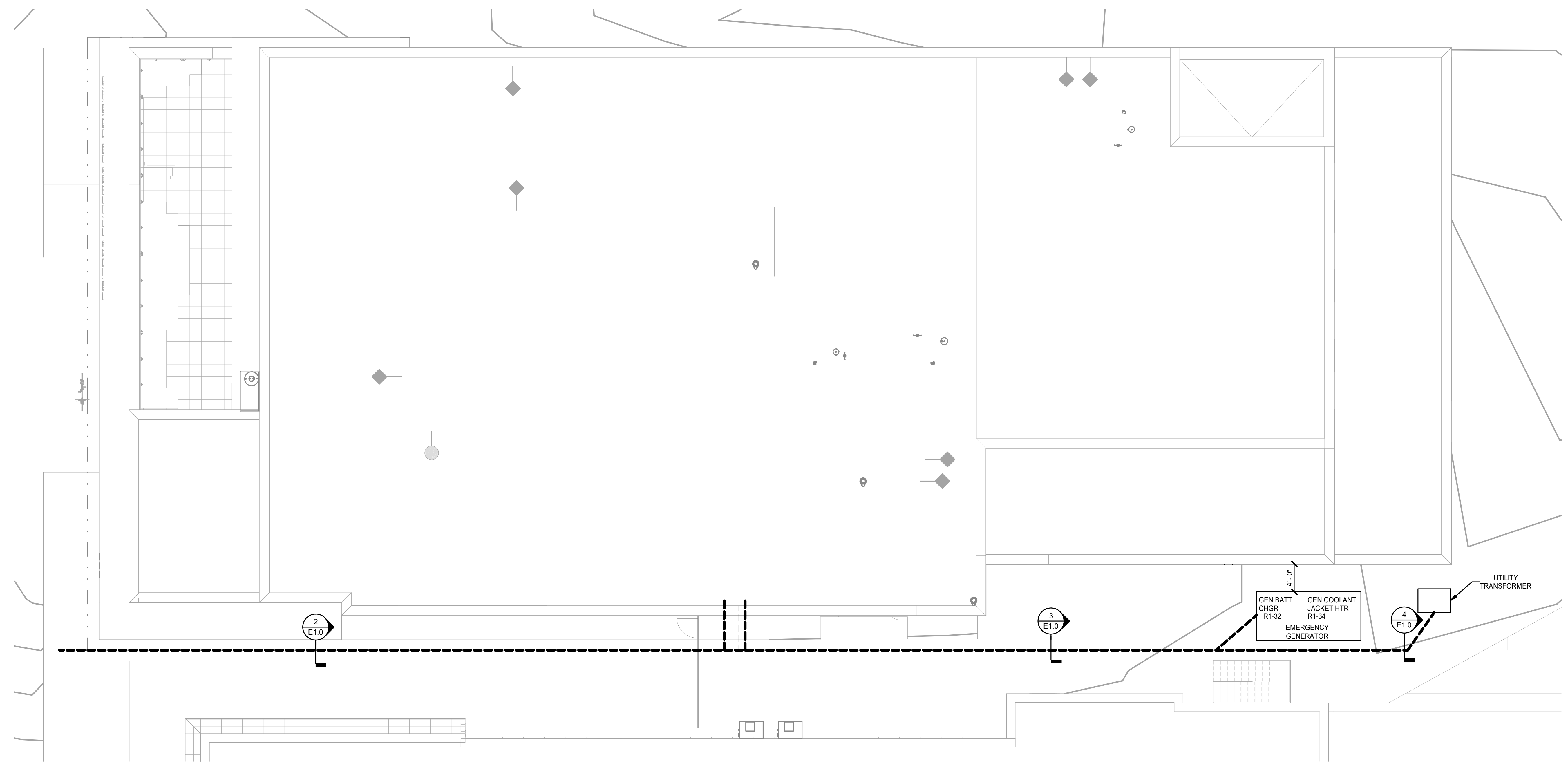
2 DUCTBANK DETAIL 1
 NO SCALE



3 DUCTBANK DETAIL 2
 NO SCALE



4 DUCTBANK DETAIL 3
 NO SCALE



ELECTRICAL SITE PLAN
 1/8" = 1'-0"

PROJECT NO.	DATE
571990	MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

ELECTRICAL SITE PLAN

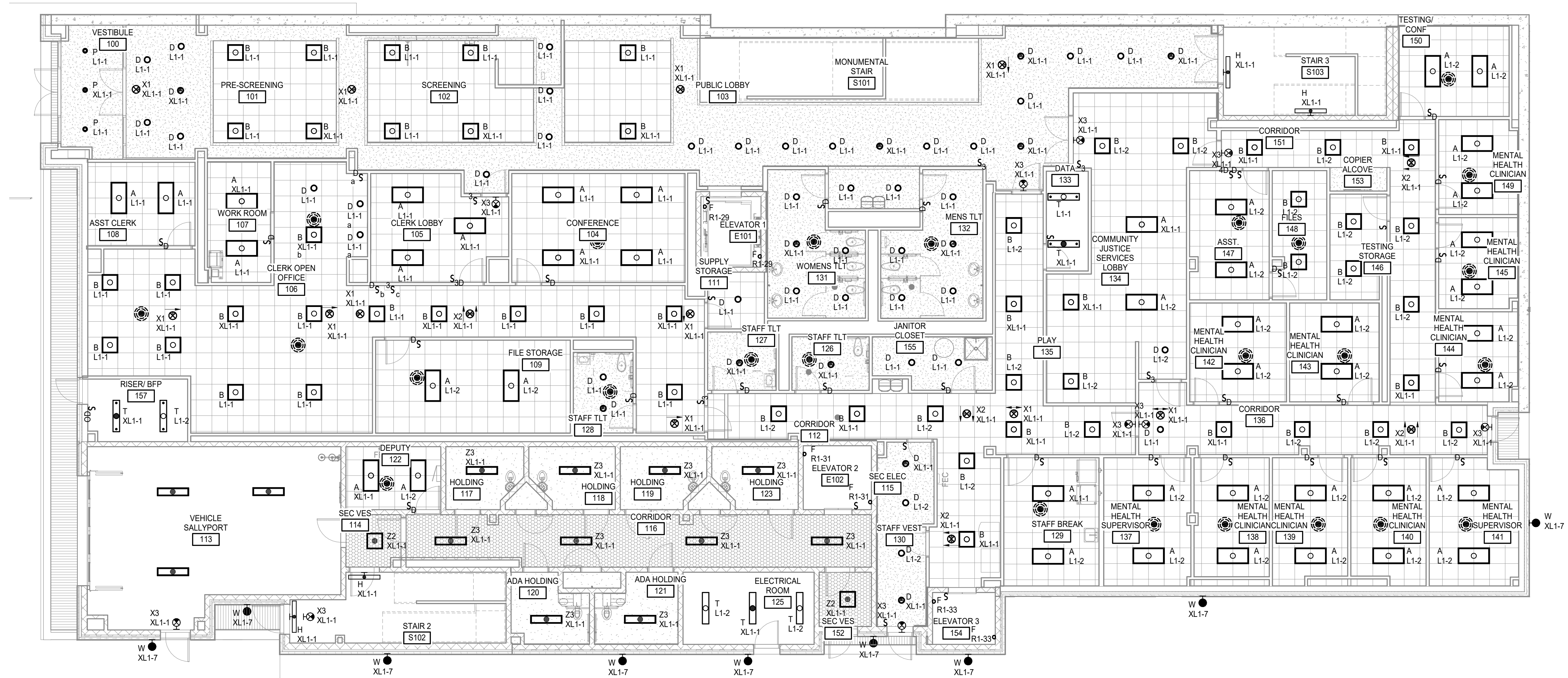
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INTERIOR LIGHT FIXTURE SCHEDULE										
TYPE	MANUFACTURER	FIXTURE		LAMP		MOUNTING	OPTIONS			COMMENTS
		SERIES NO.	WATTAGE	LUMENS	TYPE		COLOR TEMP.	BI-LEVEL	DIMMING	
A	LITHONIA LIGHTING	2ALL4-30L-EZ1-LP840	25	3096 lm	LED	4000 K	RECESSED		X	
B	LITHONIA LIGHTING	2ALL2-30L-EZ1-LP840	18	2065 lm	LED	4000 K	RECESSED		X	
D	LITHONIA LIGHTING	LDN6-40US-LO6-WHLS-MVOLT-GZ1-SF	8	692 lm	LED	4000 K	RECESSED		X	
F	PHILIPS	LPL-S-4L53	32	1800 lm	LED	4000 K	SURFACE - ELEVATOR SHAFT / PIT			
H	LITHONIA LIGHTING	WL4-30LP-P840-MSD7	28	3251 lm	LED	4000 K	SURFACE - WALL			X
P	V2 LIGHTING	C2LP-RV-208340-WH-WH	20	2000 lm	LED	4000 K	PENDENT - 10' ABOVE STAIRS			
T	LITHONIA LIGHTING	ZLIN-L48-SMR-3000LM-FST-MVOLT-40K-60CRI-WH-ZACVH	25	3172 lm	LED	4000 K	PENDENT - 9' A.F.F.			
W	MCGRAW EDISON	ISW-B014-ED-E1-BL3-BK-F-CWB-120V	27	1380 lm	LEDS	4000 K	SURFACE - WALL 12" ABOVE GRADE			
X1	LITHONIA LIGHTING	LRP-1-RW-(LARA)RAJ-277	5		LED		SURFACE - CEILING			EXIT - CEILING - SURFACE - SINGLE FACE
X2	LITHONIA LIGHTING	LRP-2-RW-(LARA)RAJ-277	5		LED		SURFACE - CEILING			EXIT - CEILING - SURFACE - DOUBLE FACE
X3	LITHONIA LIGHTING	LRP-1-RW-(LARA)RAJ-277	5		LED		SURFACE - WALL			EXIT - WALL
Z2	KENALL LIGHTING	SCD-2-1-25L40K-DCC-277-BU-1-FS	25	3079 lm	LED	4000 K	SURFACE - CEILING			SECURITY FIXTURE
Z3	KENALL LIGHTING	SCA-4-1-45L40K-DCC-277-BU-1-DLN-FS	45	4099 lm	LED	4000 K	SURFACE - CEILING	X		SECURITY FIXTURE

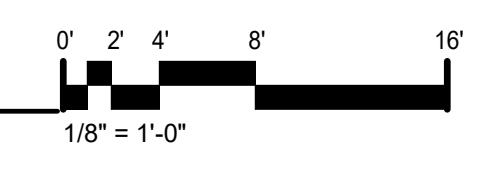
GENERAL LIGHTING NOTES

A. OCCUPANCY SENSORS IN ALL OFFICES WILL BE PROGRAMMED TO FUNCTION AS VACANCY SENSORS.

KEYNOTES



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



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FIRST FLOOR - LIGHTING PLAN

E2.1.1

MOSELEY ARCHITECTS

11430 NORTH COMMUNITY HOUSE ROAD, GIBSON BUILDING SUITE 225 CHARLOTTE, NC 28277
PHONE (704) 540-3765 FAX (704) 540-3754
MOSELEYARCHITECTS.COM



DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
WILMINGTON, NC



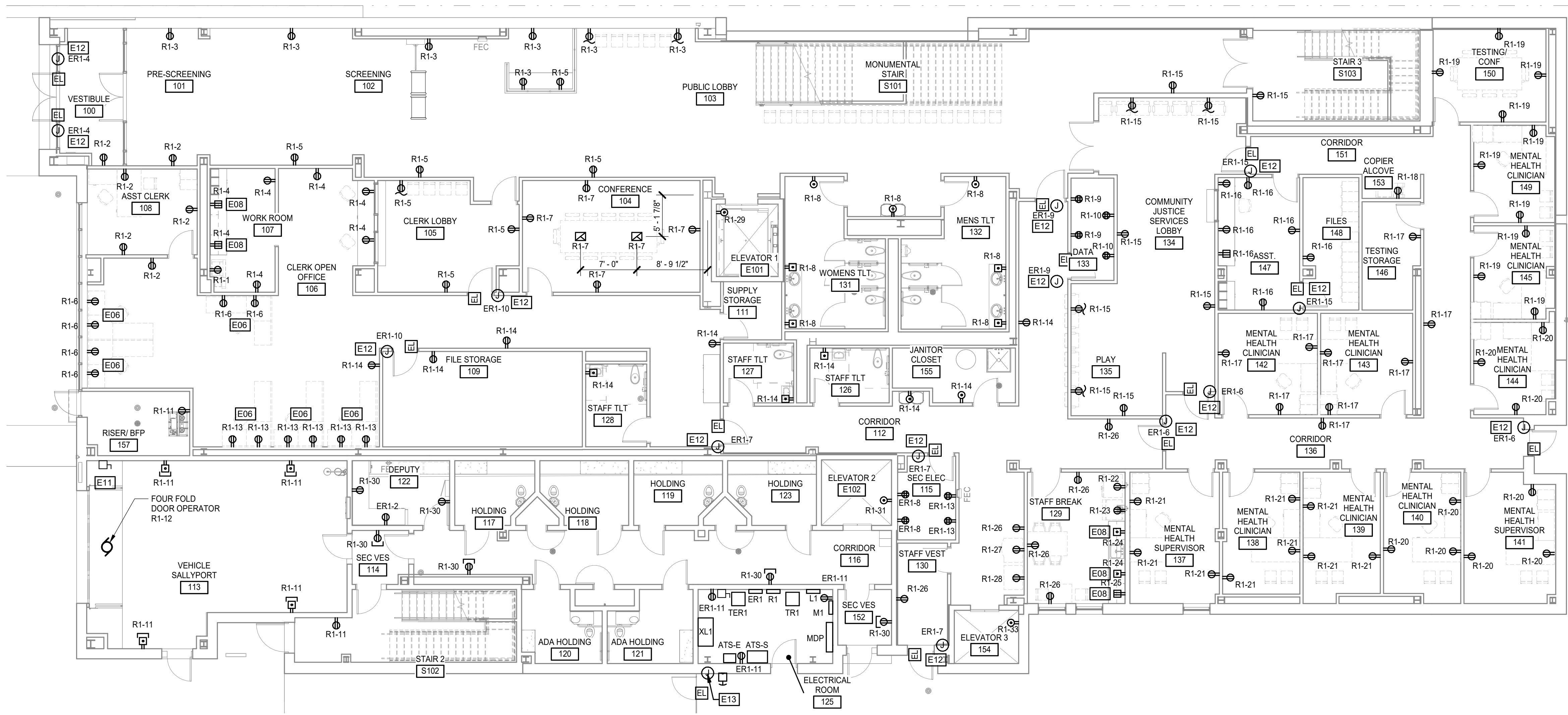
GENERAL POWER NOTES

A. FOR DEVICES AND EQUIPMENT BEING PROVIDED BY OTHERS, COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

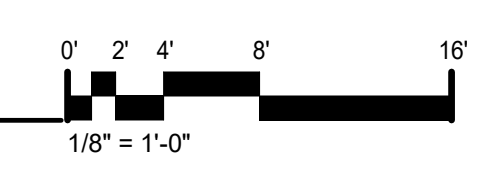
B. ALL DEVICES SHOWN ARE DIAGRAMMATIC EXCEPT WHERE DIMENSIONS ARE CALLED OUT. COORDINATE INSTALLATION WITH OTHER TRADES.

KEYNOTES

E06	COORDINATE DEVICE LOCATION AND INSTALLATION REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO ROUGH-IN.
E08	ABOVE COUNTER RECEPTACLE. COORDINATE MOUNTING HEIGHT TO PLACE DEVICE ABOVE COUNTER BACKSPASH.
E11	PROVIDE NONFUSED DISCONNECT FOR FOUR FOLD DOOR OPERATOR, ROUTE 2#12 AND 1#12 GROUND TO FOUR FOLD DOOR OPERATOR THROUGH DISCONNECT SWITCH AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION AND CONNECTION REQUIREMENTS WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.
E12	PROVIDE POWER FOR DOOR ACCESS CONTROL. REFER TO DETAIL 4 ON DRAWING SHEET E4.2. PROVIDE 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATIONS AND ROUTING WITH DOOR HARDWARE PRIOR TO ROUGH-IN.
E13	PROVIDE POWER FOR GATE ACCESS CONTROL. PROVIDE 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATIONS AND ROUTING WITH GATE HARDWARE PRIOR TO ROUGH-IN. PROVIDE EXTERIOR WALL MOUNTED PUSH BUTTON FOR ELECTRIC LOCK OVERRIDE. COORDINATE LOCATION WITH GENERAL CONTRACTOR PRIOR TO ROUGH-IN.



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

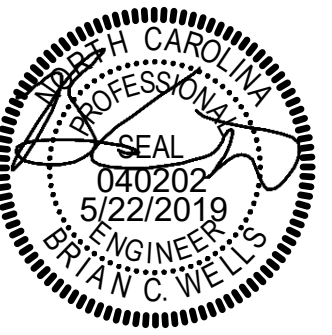


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FIRST FLOOR - ELECTRICAL POWER PLAN

E2.1.2

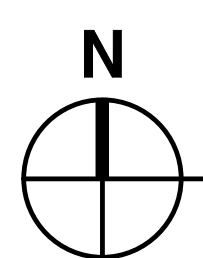
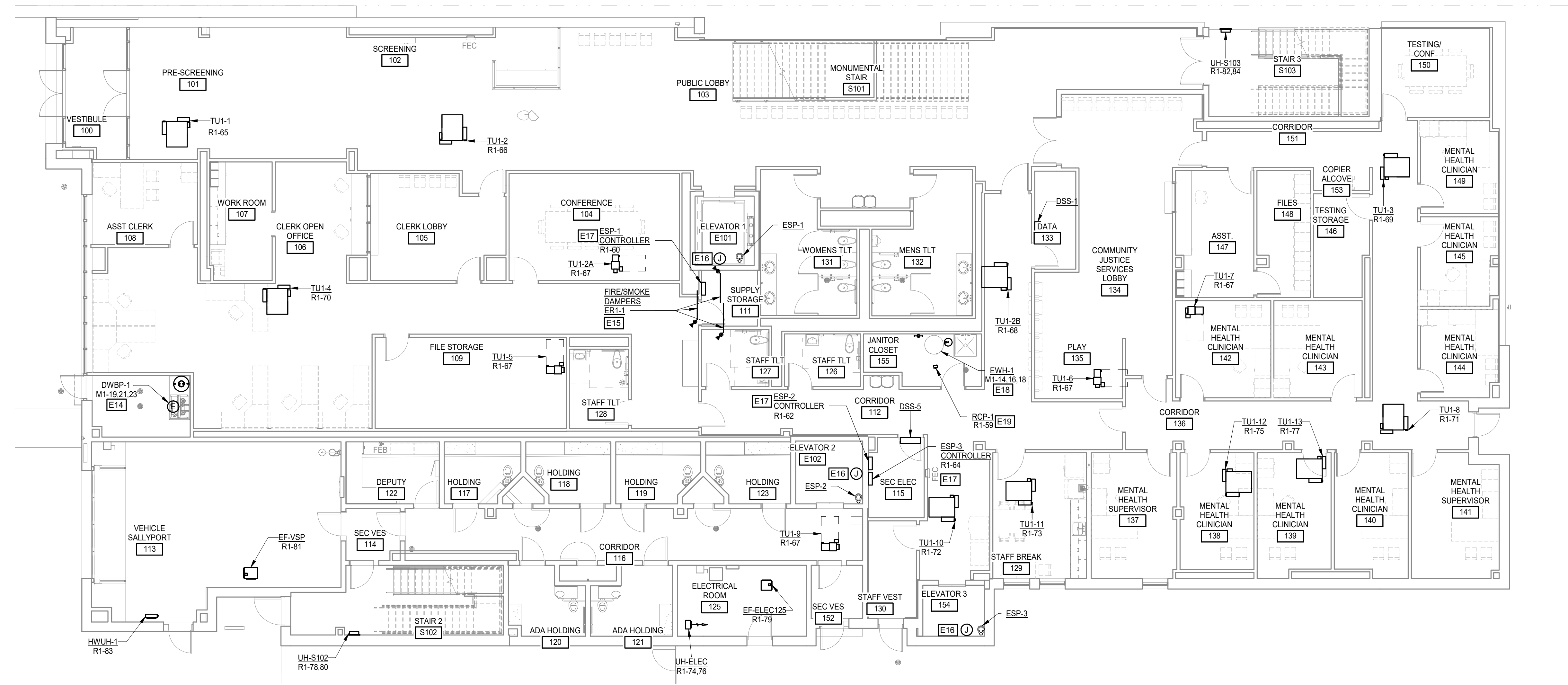


GENERAL MECHANICAL POWER NOTES

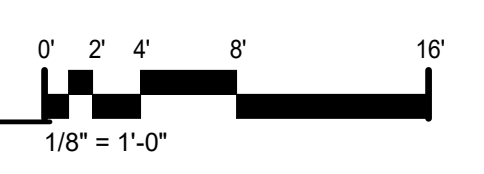
- A. MECHANICAL EQUIPMENT SHOWN IS BASED UPON A "BASIS OF DESIGN" MODEL AND IS NOT GUARANTEED TO BE WHAT IS INSTALLED. COORDINATE EXACT CONNECTION REQUIREMENTS WITH VENDOR SUPPLIED EQUIPMENT PRIOR TO ROUGH-IN.
- B. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND BASED UPON THE TYPE AND SIZE OF THE "BASIS OF DESIGN" MODEL. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH MECHANICAL CONTRACTOR TO AVOID CONFLICTS AT INSTALLATION.

KEYNOTES

- E14 DOMESTIC WATER BOOSTER PUMP SYSTEM CONNECTION. ROUTE FOUR #12 AWG CONDUCTORS AND ONE #12 AWG GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO SYSTEM MOUNTED CONTROL PANEL AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- E15 FIRE/SMOKE DAMPER CONNECTION. ROUTE TWO #12 AWG CONDUCTORS AND ONE #12 AWG GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO SMOKE DAMPERS AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- E16 WATER TIGHT JUNCTION BOX FOR ELEVATOR PIT SLUMP PUMP CONNECTION. REFER TO ELEVATOR SLUMP PUMP DETAIL ON DRAWING SHEET P5.1 FOR PUMP CONNECTION REQUIREMENTS.
- E17 ELEVATOR PIT SLUMP PUMP CONTROLLER. ROUTE TWO #12 AWG AND ONE #12 GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO CONTROLLER AND TERMINATE PER MANUFACTURER'S INSTRUCTION. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- E18 ELECTRIC WATER HEATER. ROUTE FOUR #12 AWG CONDUCTORS AND ONE #12 GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO WATER HEATER AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
- E19 RECIRCULATION PUMP CONNECTION. ROUTE TWO #12 AWG AND ONE #12 AWG IN 3/4" CONDUIT FROM PANEL SHOWN TO PUMP AND TERMINATE PER MANUFACTURER'S INSTRUCTION. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.



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



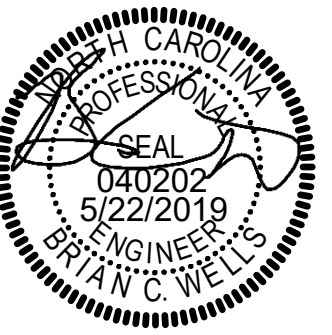
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FIRST FLOOR - MECHANICAL POWER PLAN

E2.1.3

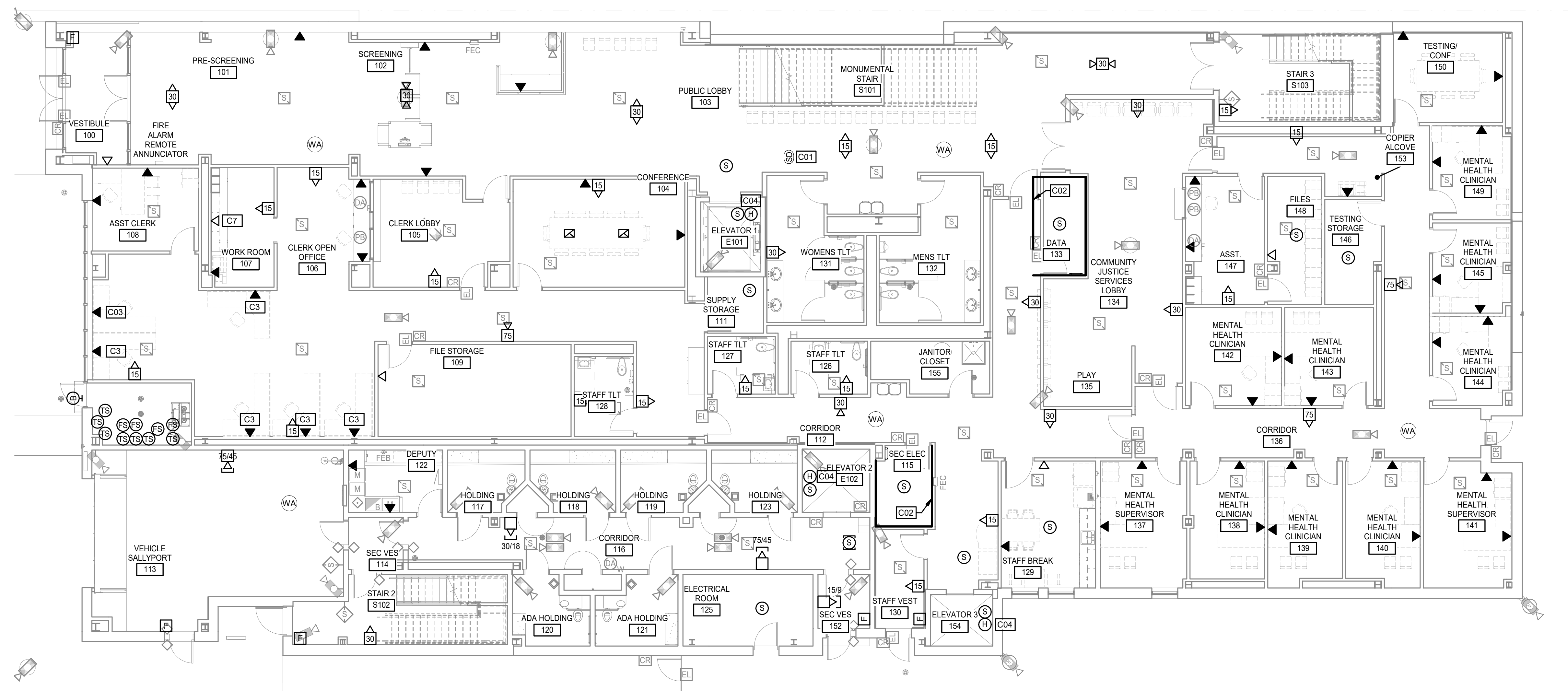


GENERAL COMMUNICATIONS NOTES

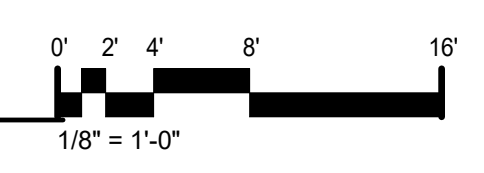
- A. ALL DATA / TELEPHONE AND COMMUNICATIONS EQUIPMENT AND INFRASTRUCTURE SHALL COMPLY WITH CURRENT NEW HANOVER COUNTY ADMINISTRATIVE POLICIES AND REQUIREMENTS.
- B. COORDINATE THE MOUNTING HEIGHTS FOR ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES WITH ARCHITECTURAL WALL ELEMENTS AND FEATURES. PLACE DEVICES SO THAT THEY ARE NOT PARTLY IN MORE THAN ONE SURFACE TREATMENTS, WALL MATERIALS OR TILE.
- C. MICROPHONE LOCATIONS SHOWN ARE PRELIMINARY. INSTALL CONDUIT, WITH PULL CORD, FROM FURNITURE LOCATION TO NEAREST WALL, UNDERSLAB, AND EXTEND UP TO ACCESSIBLE CEILING SPACE. WHERE HARD CEILING EXISTS AT TOP OF WALL, COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE MINIMUM 8" X 8" ACCESS DOOR FOR ACCESS TO TOP OF CONDUIT. COORDINATE LOCATION AND INSTALLATION REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.

KEYNOTES

C01	DUCT SMOKE DETECTOR. PROVIDE DEVICE TO MECHANICAL CONTRACTOR FOR INSTALLATION.
C02	PROVIDE 3/4" FIRE RESISTANT PLYWOOD BACKBOARD, PAINTED WHITE. PLYWOOD SHALL EXTEND FROM 2' A.F.F. TO 10' A.F.F.
C3	
C03	COORDINATE DEVICE LOCATION AND INSTALLATION REQUIREMENTS WITH FURNITURE VENDOR PRIOR TO ROUGH-IN.
C04	ELEVATOR HOISTWAY HEAT DETECTOR. COORDINATE TO LOCATE DEVICE WITHIN 2' OF SPRINKLER HEAD.
C7	



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



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FIRST FLOOR -
 COMMUNICATIONS
 PLAN

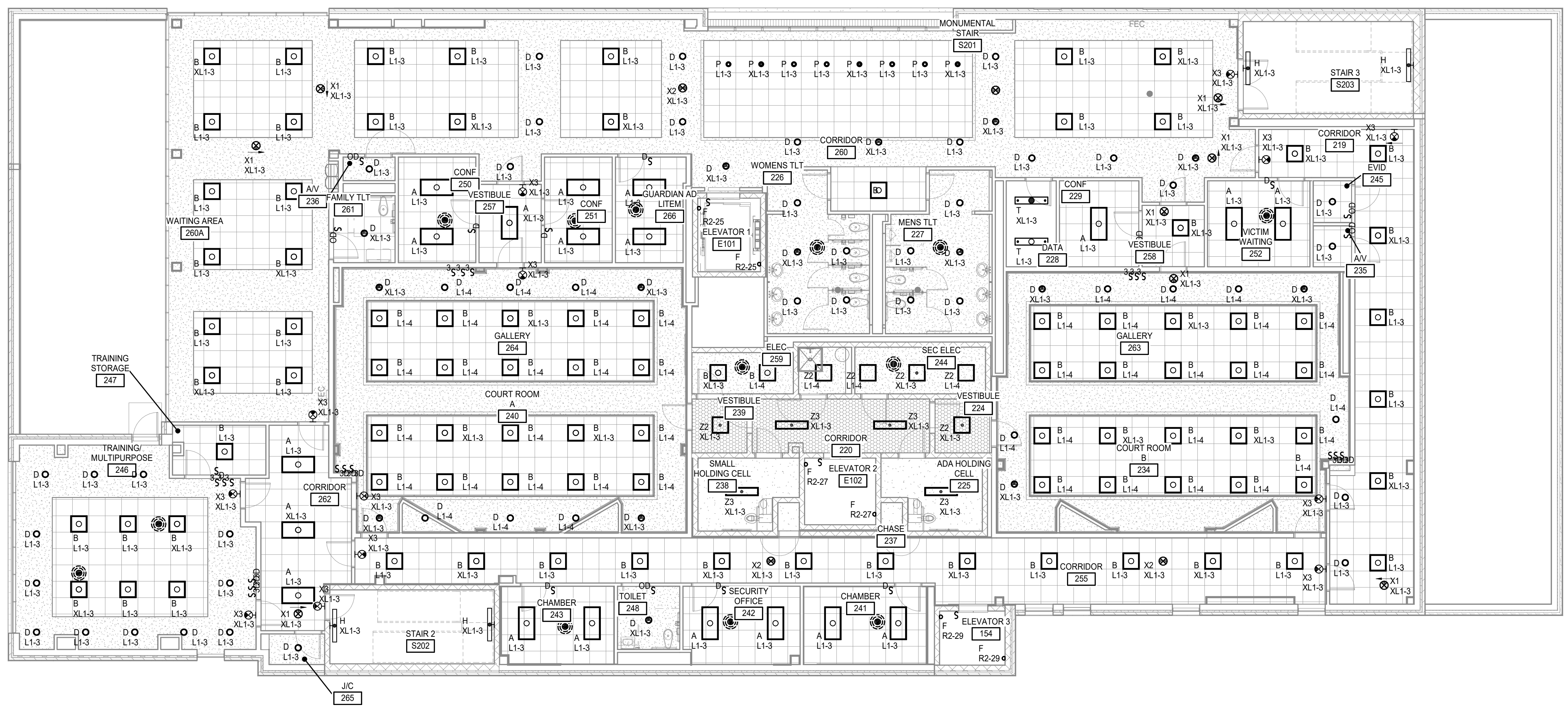
E2.1.4



GENERAL LIGHTING NOTES

A. OCCUPANCY SENSORS IN ALL OFFICES WILL BE PROGRAMMED TO FUNCTION AS VACANCY SENSORS.

KEYNOTES



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



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**SECOND FLOOR -
 LIGHTING PLAN**

E2.2.1

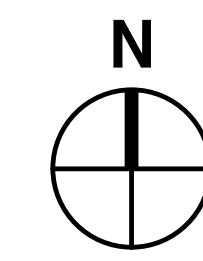
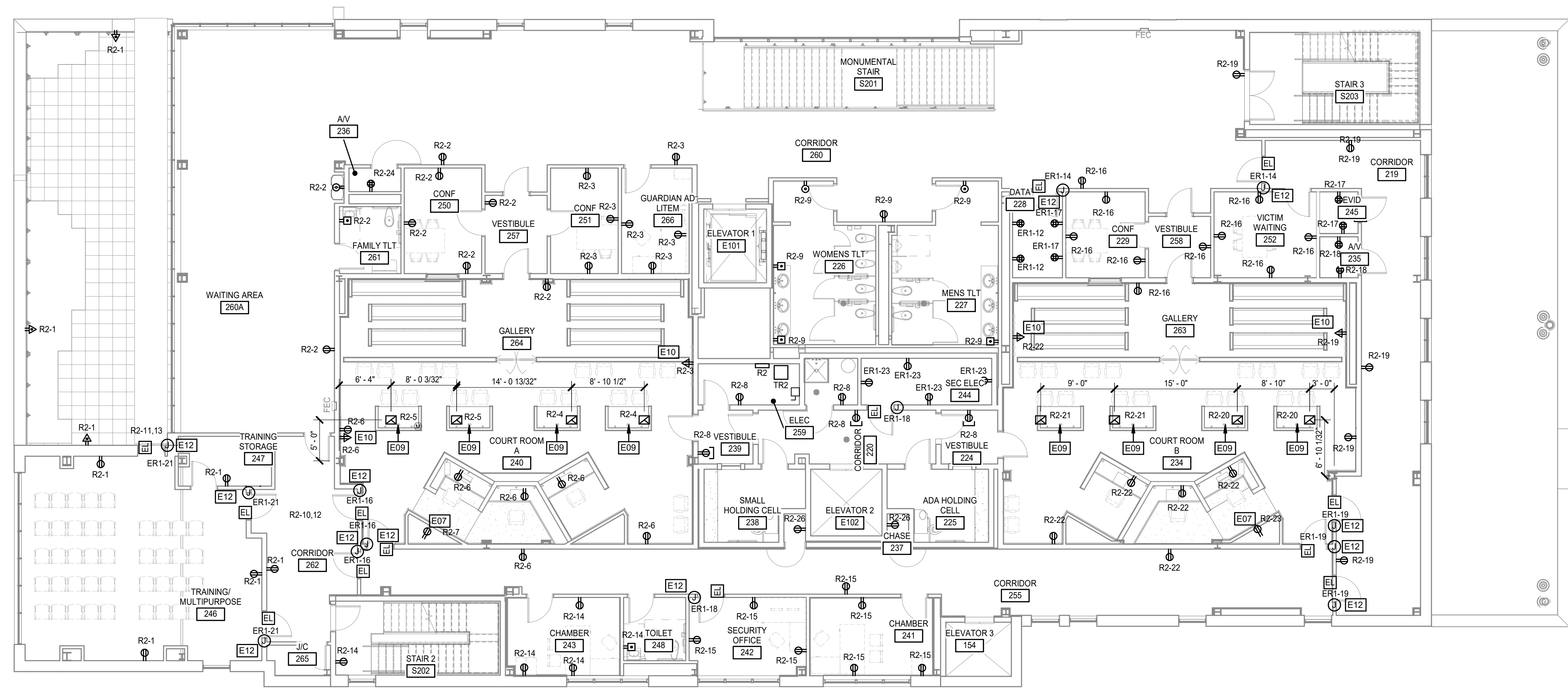


GENERAL POWER NOTES

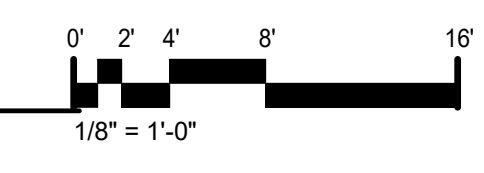
- A. FOR DEVICES AND EQUIPMENT BEING PROVIDED BY OTHERS, COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.
- B. ALL DEVICES SHOWN ARE DIAGRAMMATIC EXCEPT WHERE DIMENSIONS ARE CALLED OUT. COORDINATE INSTALLATION WITH OTHER TRADES.

KEYNOTES

- E07 COORDINATE DEVICE MOUNTING HEIGHT WITH RAISED FLOORING.
- E09 TABLETOP POP UP COMBINATION POWER AND DATA OUTLET, ALIPIX, OR OTHER MANUFACTURER'S APPROVED EQUIVALENT. PROVIDE TWO NEMA 5-15R POWER OUTLETS AND TWO R45 JACKS.
- E10 WALL MOUNTED TELEVISION LOCATION. PROVIDE RECESSED WALL BOX FOR POWER AND AV CONNECTION TO TELEVISION. MOUNT AT 70" A.F.F. TO CENTER OF DEVICE BOX. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- E12 PROVIDE POWER FOR DOOR ACCESS CONTROL. REFER TO DETAIL 4 ON DRAWING SHEET E4.2. PROVIDE 2-#12 AWG AND 1-#12 AWG GROUND IN 3/4" CONDUIT AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATIONS AND ROUTING WITH DOOR HARDWARE PRIOR TO ROUGH-IN.



SECOND FLOOR - ELECTRICAL POWER PLAN
 1/8" = 1'-0"



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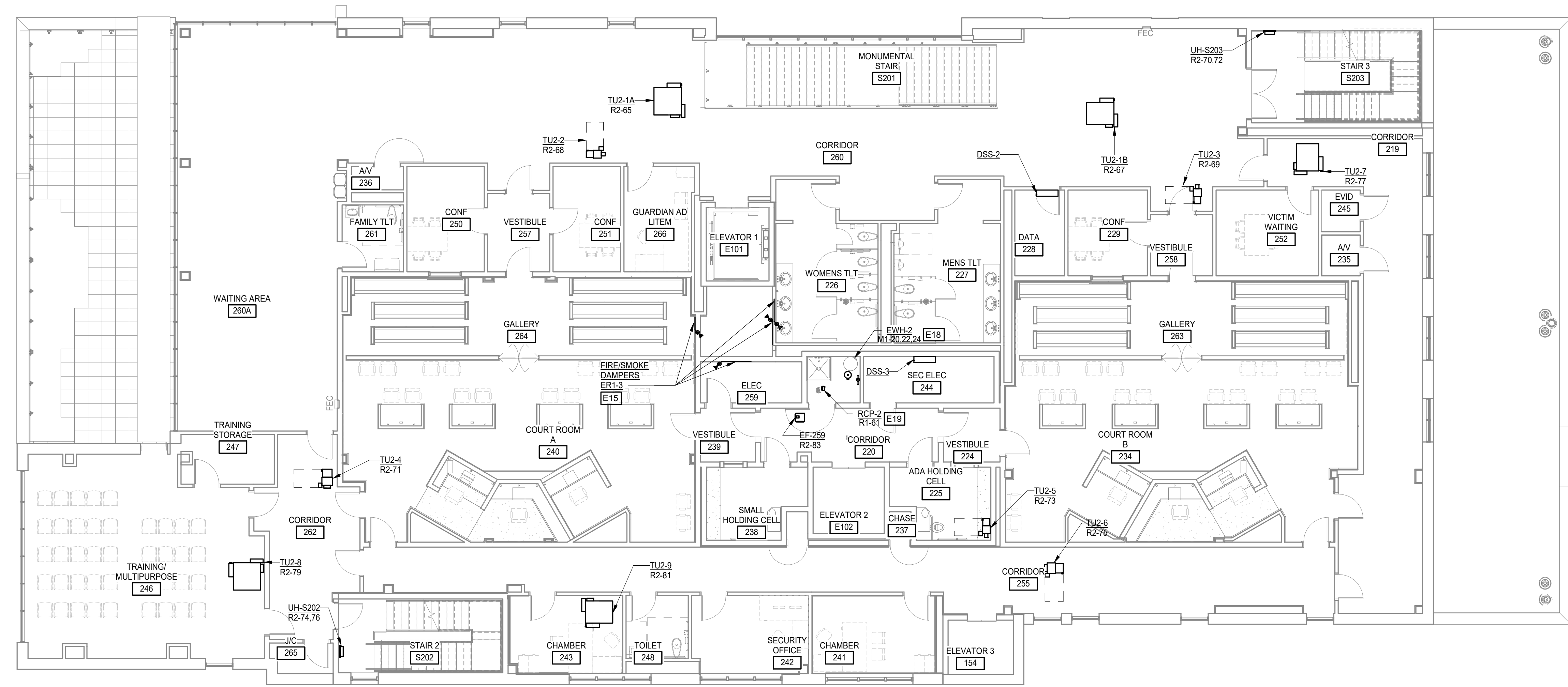
SECOND FLOOR -
 ELECTRICAL
 POWER PLAN

E2.2.2

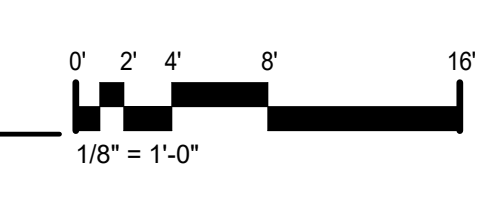


GENERAL MECHANICAL POWER NOTES	
A.	MECHANICAL EQUIPMENT SHOWN IS BASED UPON A "BASIS OF DESIGN" MODEL AND IS NOT GUARANTEED TO BE WHAT IS INSTALLED. COORDINATE EXACT CONNECTION REQUIREMENTS WITH VENDOR SUPPLIED EQUIPMENT PRIOR TO ROUGH-IN.
B.	EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND BASED UPON THE TYPE AND SIZE OF THE "BASIS OF DESIGN" MODEL. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH MECHANICAL CONTRACTOR TO AVOID CONFLICTS AT INSTALLATION.

KEYNOTES	
E15	FIRE/SMOKE DAMPER CONNECTION. ROUTE TWO #12 AWG CONDUCTORS AND ONE #12 AWG GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO SMOKE DAMPERS AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E18	ELECTRIC WATER HEATER. ROUTE FOUR #12 AWG CONDUCTORS AND ONE #12 GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO WATER HEATER AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E19	RECIRCULATION PUMP CONNECTION. ROUTE TWO #12 AWG AND ONE #12 AWG IN 3/4" CONDUIT FROM PANEL SHOWN TO PUMP AND TERMINATE PER MANUFACTURER'S INSTRUCTION. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.



N
SECOND FLOOR - MECHANICAL POWER PLAN
 1/8" = 1'-0"



DIVISION OF JUVENILE JUSTICE
 NEW HANOVER COUNTY
 WILMINGTON, NC

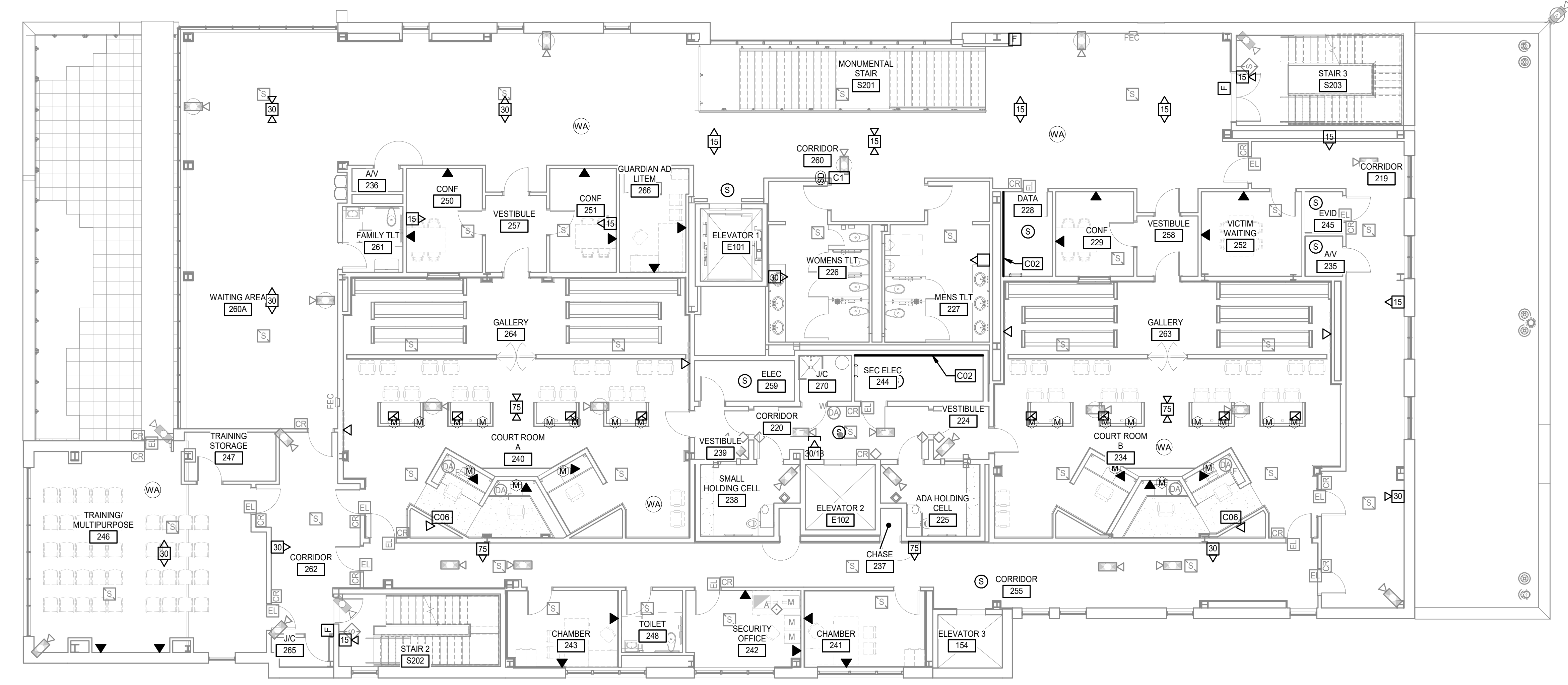
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SECOND FLOOR - MECHANICAL POWER PLAN

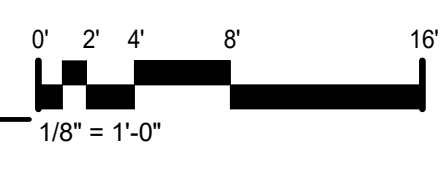
E2.2.3



GENERAL COMMUNICATIONS NOTES	
A.	ALL DATA / TELEPHONE AND COMMUNICATIONS EQUIPMENT AND INFRASTRUCTURE SHALL COMPLY WITH CURRENT NEW HANOVER COUNTY ADMINISTRATIVE POLICIES AND REQUIREMENTS.
B.	COORDINATE THE MOUNTING HEIGHTS FOR ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES WITH ARCHITECTURAL WALL ELEMENTS AND FEATURES. PLACE DEVICES SO THAT THEY ARE NOT PARTLY IN MORE THAN ONE SURFACE TREATMENTS, WALL MATERIALS OR TILE.
C.	MICROPHONE LOCATIONS SHOWN ARE PRELIMINARY. INSTALL CONDUIT, WITH PULL CORD, FROM FURNITURE LOCATION TO NEAREST WALL, UNDERSLAB, AND EXTEND UP TO ACCESSIBLE CEILING SPACE WHERE HARD CEILING EXISTS AT TOP OF WALL. COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE MINIMUM 8" X 8" ACCESS DOOR FOR ACCESS TO TOP OF CONDUIT. COORDINATE LOCATION AND INSTALLATION REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN.
KEYNOTES	
C1	
C02	PROVIDE 3/4" FIRE RESISTANT PLYWOOD BACKBOARD, PAINTED WHITE. PLYWOOD SHALL EXTEND FROM 2" A.F.F. TO 10" A.F.F.
C06	COORDINATE DEVICE MOUNTING HEIGHT WITH RAISED FLOORING.



N
SECOND FLOOR - COMMUNICATIONS PLAN
 1/8" = 1'-0"



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SECOND FLOOR - COMMUNICATIONS PLAN

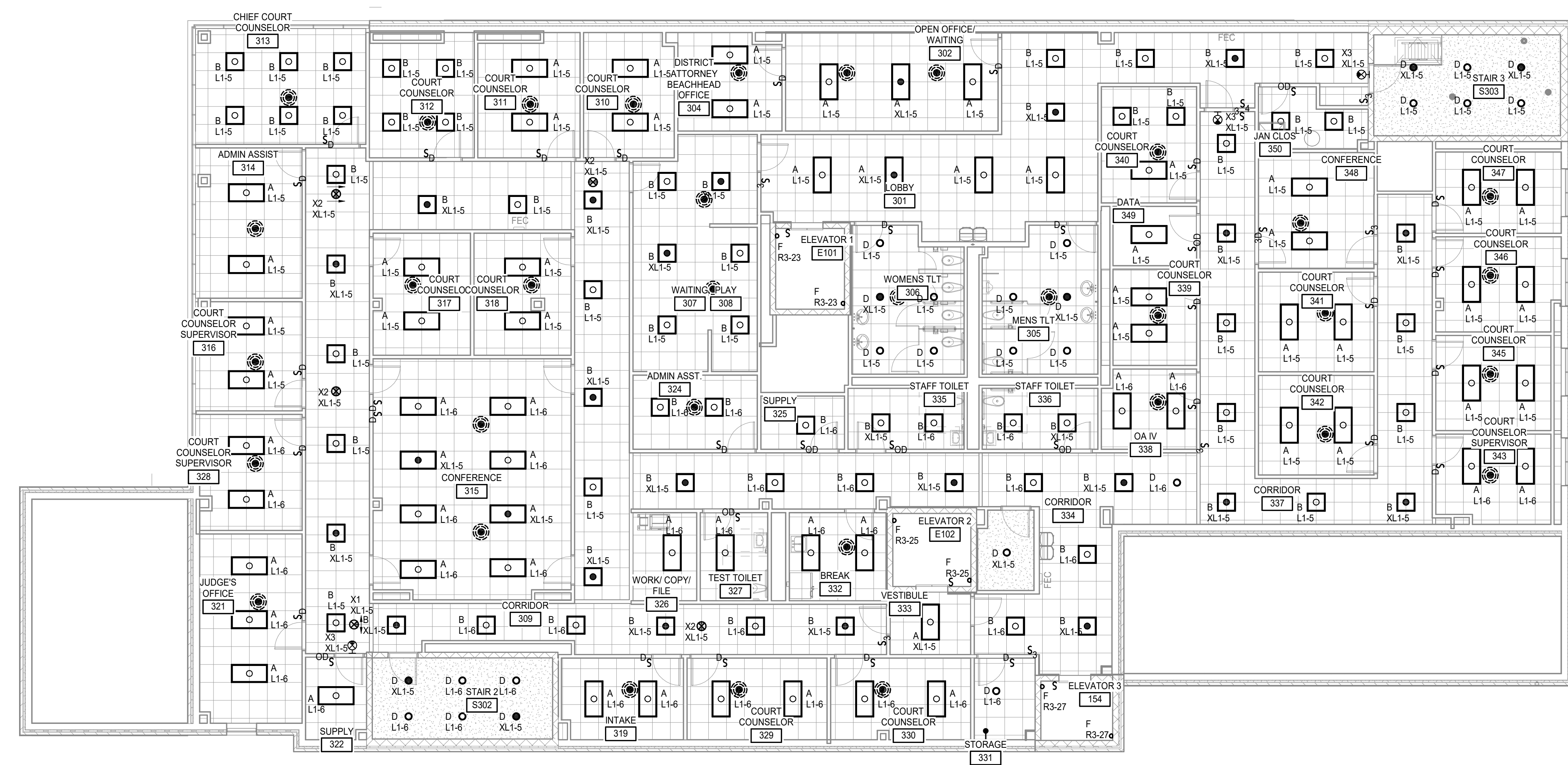
E2.2.4



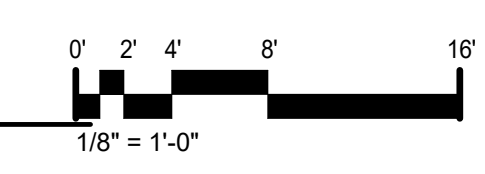
GENERAL LIGHTING NOTES

A. OCCUPANCY SENSORS IN ALL OFFICES WILL BE PROGRAMMED TO FUNCTION AS VACANCY SENSORS.

KEYNOTES



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



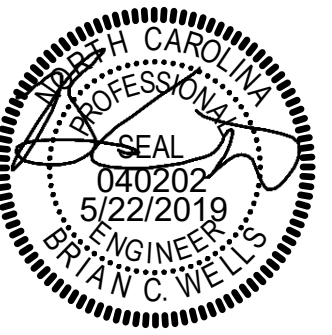
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**THIRD FLOOR -
 LIGHTING PLAN**

E2.3.1



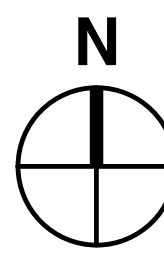
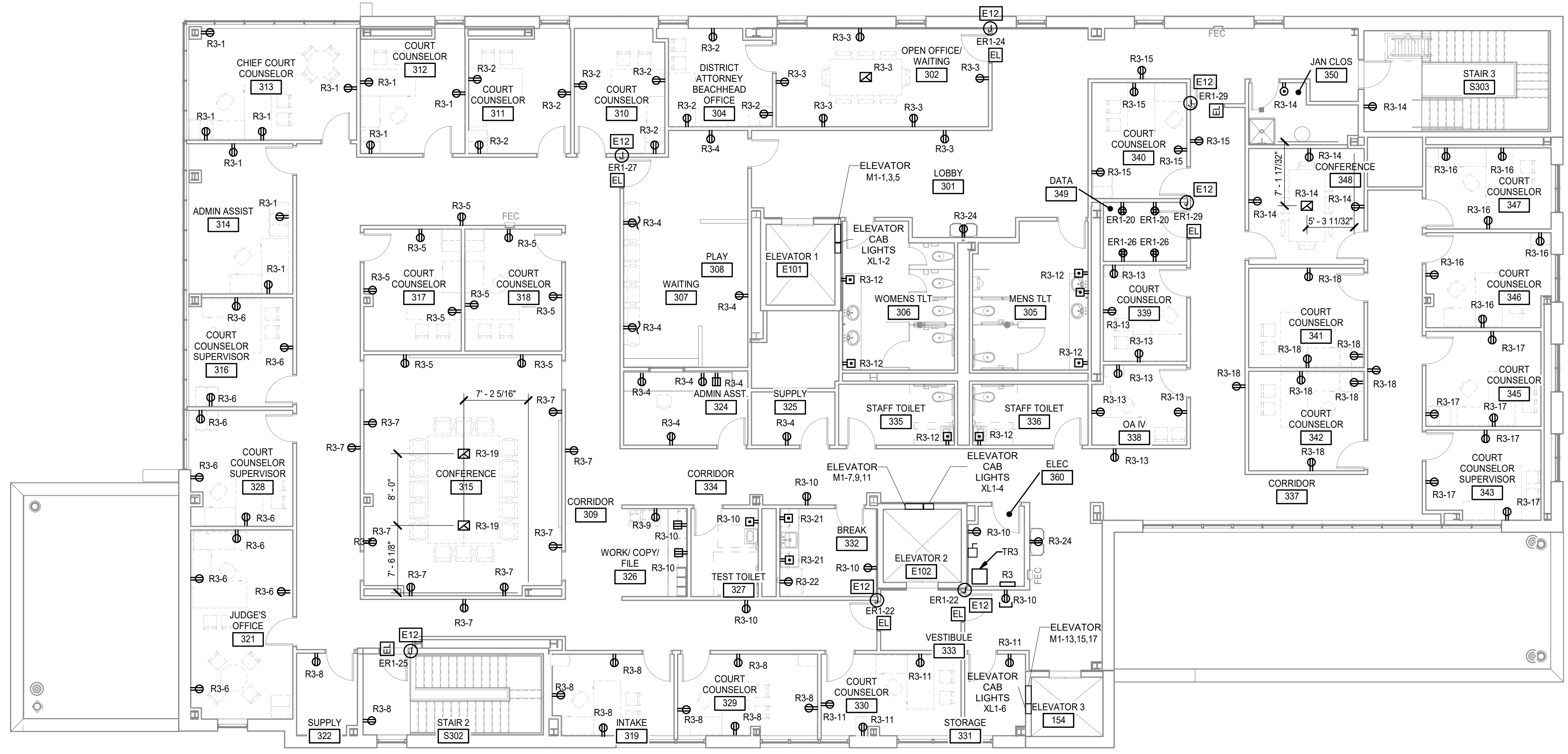
GENERAL POWER NOTES

A. FOR DEVICES AND EQUIPMENT BEING PROVIDED BY OTHERS, COORDINATE EXACT LOCATIONS AND CONNECTION REQUIREMENTS PRIOR TO ROUGH-IN.

B. ALL DEVICES SHOWN ARE DIAGRAMMATIC EXCEPT WHERE DIMENSIONS ARE CALLED OUT. COORDINATE INSTALLATION WITH OTHER TRADES.

KEYNOTES

E12 PROVIDE POWER FOR DOOR ACCESS CONTROL. REFER TO DETAIL 4 ON DRAWING SHEET E4.2. PROVIDE 2#12 AWG AND 1#12 AWG GROUND IN 3/4" CONDUIT AND TERMINATE PER MANUFACTURERS INSTRUCTIONS. COORDINATE EXACT LOCATIONS AND ROUTING WITH DOOR HARDWARE PRIOR TO ROUGH-IN.



THIRD FLOOR - ELECTRICAL POWER PLAN

1/8" = 1'-0"



1/8" = 1'-0"

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NEW HANOVER COUNTY
 WILMINGTON, NC

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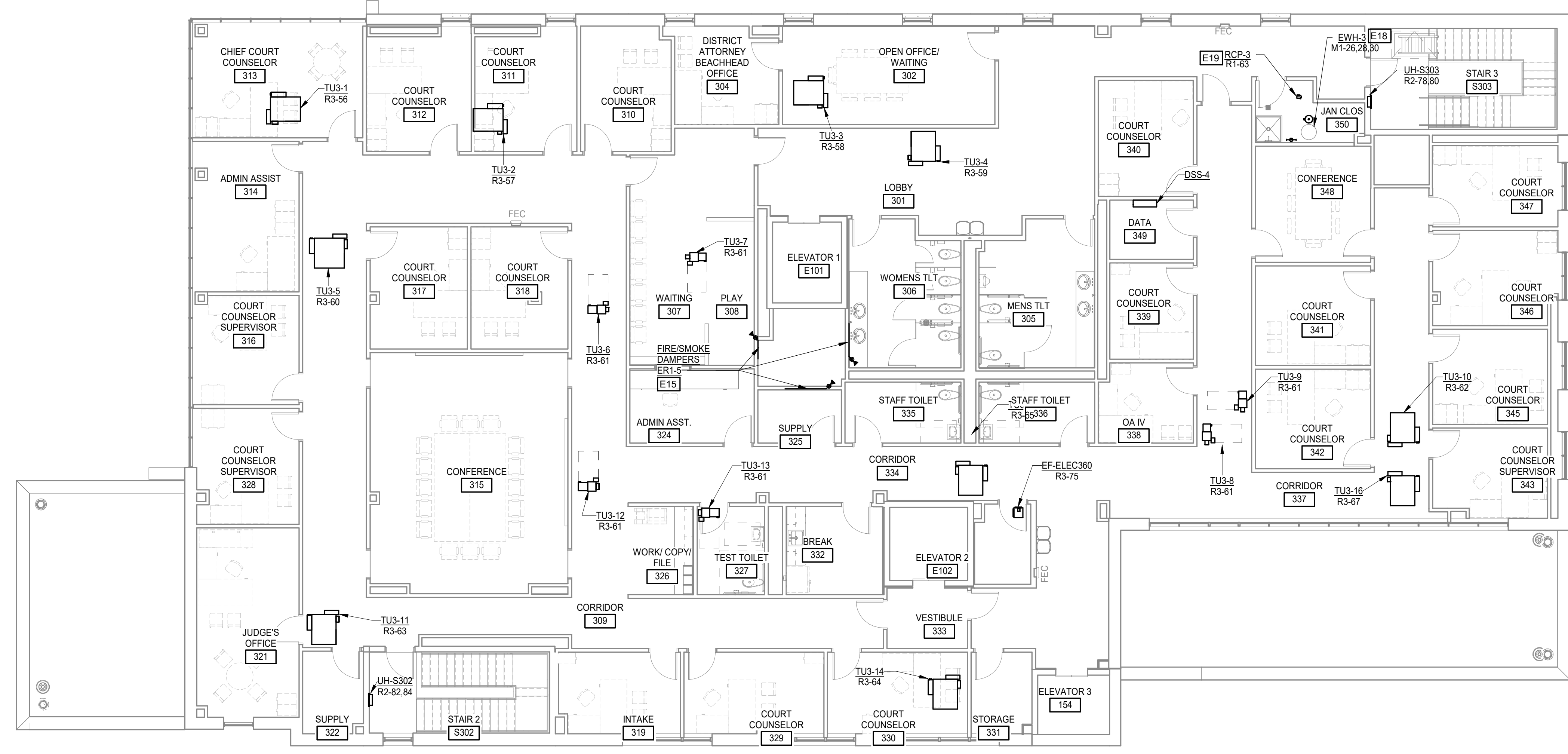
THIRD FLOOR -
 ELECTRICAL
 POWER PLAN

E2.3.2

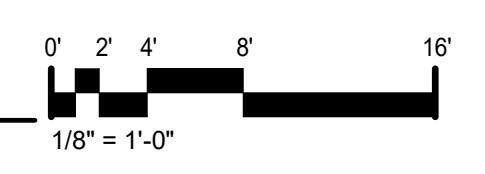


GENERAL MECHANICAL POWER NOTES	
A.	MECHANICAL EQUIPMENT SHOWN IS BASED UPON A 'BASIS OF DESIGN' MODEL AND IS NOT GUARANTEED TO BE WHAT IS INSTALLED. COORDINATE EXACT CONNECTION REQUIREMENTS WITH VENDOR SUPPLIED EQUIPMENT PRIOR TO ROUGH-IN.
B.	EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND BASED UPON THE TYPE AND SIZE OF THE 'BASIS OF DESIGN' MODEL. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH MECHANICAL CONTRACTOR TO AVOID CONFLICTS AT INSTALLATION.

KEYNOTES	
E15	FIRE/SMOKE DAMPER CONNECTION. ROUTE TWO #12 AWG CONDUCTORS AND ONE #12 AWG GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO SMOKE DAMPERS AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E18	ELECTRIC WATER HEATER. ROUTE FOUR #12 AWG CONDUCTORS AND ONE #12 GROUND IN 3/4" CONDUIT FROM PANEL SHOWN TO WATER HEATER AND TERMINATE PER MANUFACTURER'S INSTRUCTIONS. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.
E19	RECIRCULATION PUMP CONNECTION. ROUTE TWO #12 AWG AND ONE #12 AWG IN 3/4" CONDUIT FROM PANEL SHOWN TO PUMP AND TERMINATE PER MANUFACTURER'S INSTRUCTION. COORDINATE EXACT LOCATION PRIOR TO ROUGH-IN.



THIRD FLOOR - MECHANICAL POWER PLAN
 1/8" = 1'-0"



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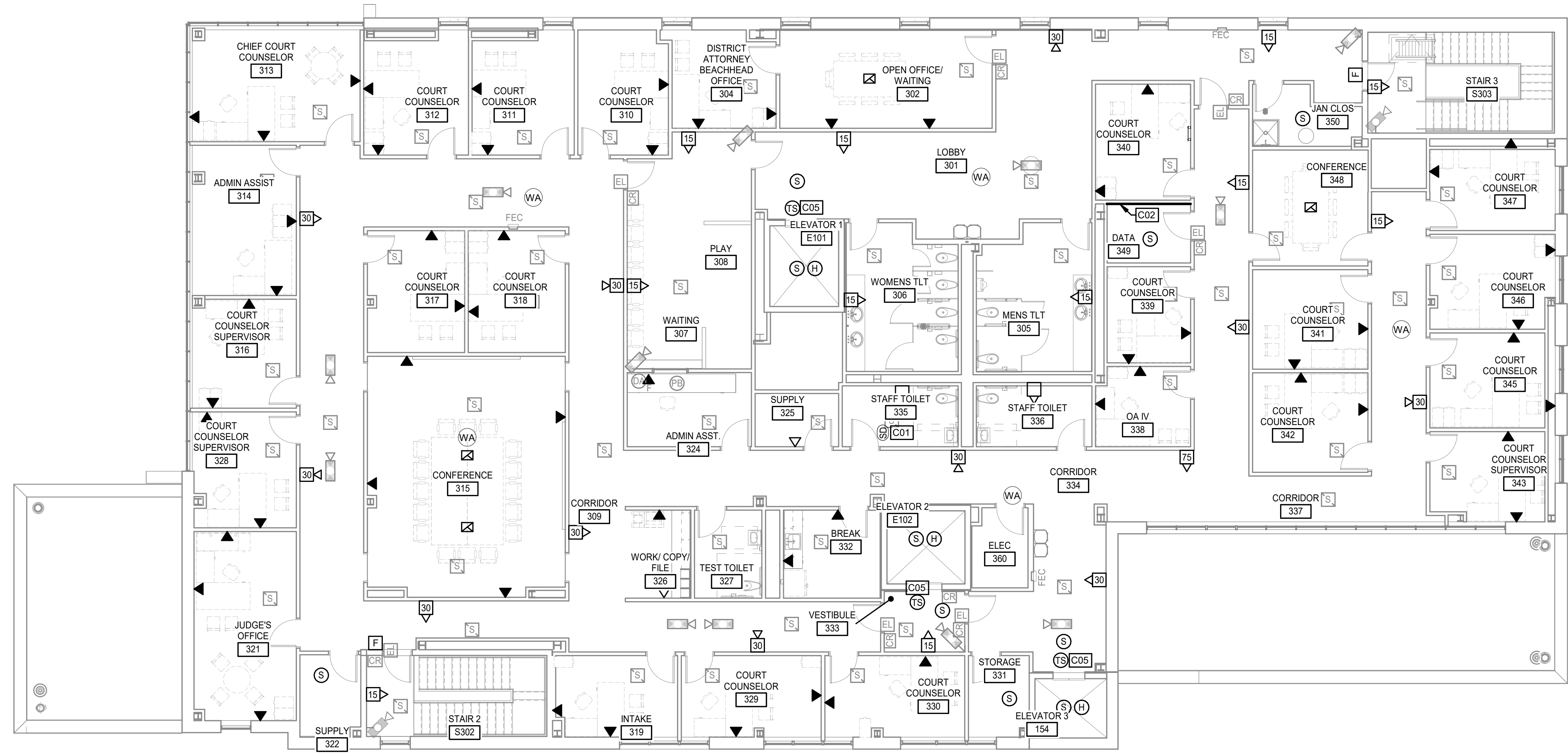
THIRD FLOOR - MECHANICAL POWER PLAN

E2.3.3

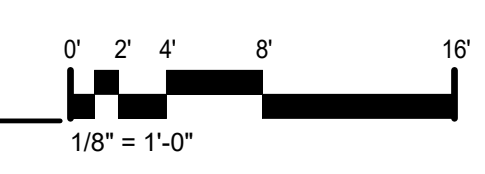


GENERAL COMMUNICATIONS NOTES	
A.	ALL DATA / TELEPHONE AND COMMUNICATIONS EQUIPMENT AND INFRASTRUCTURE SHALL COMPLY WITH CURRENT NEW HANOVER COUNTY ADMINISTRATIVE POLICIES AND REQUIREMENTS.
B.	COORDINATE THE MOUNTING HEIGHTS FOR ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES WITH ARCHITECTURAL WALL ELEMENTS AND FEATURES. PLACE DEVICES SO THAT THEY ARE NOT PARTLY IN MORE THAN ONE SURFACE TREATMENT, WALL MATERIALS OR TILE.
C.	MICROPHONE LOCATIONS SHOWN ARE PRELIMINARY. INSTALL CONDUIT, WITH PULL CORD, FROM FURNITURE LOCATION TO NEAREST WALL UNDERSLAB, AND EXTEND UP TO ACCESSIBLE CEILING SPACE. WHERE HARD CEILING EXISTS AT TOP OF WALL, COORDINATE WITH GENERAL CONTRACTOR TO PROVIDE MINIMUM 8" X 8" ACCESS DOOR FOR ACCESS TO TOP OF CONDUIT. COORDINATE LOCATION AND INSTALLATION REQUIREMENTS WITH OWNER'S GENERAL CONTRACTOR.

KEYNOTES	
C01	DUCT SMOKE DETECTOR. PROVIDE DEVICE TO MECHANICAL CONTRACTOR FOR INSTALLATION.
C02	PROVIDE 3/4" FIRE RESISTANT PLYWOOD BACKBOARD, PAINTED WHITE. PLYWOOD SHALL EXTEND FROM 2" A.F.F. TO 10" A.F.F.
C05	SPRINKLER LINE TAMPER SWITCHES. COORDINATE EXACT LOCATION OF DEVICES WITH PIPING INSTALLATION PRIOR TO ROUGH-IN.



THIRD FLOOR - COMMUNICATIONS PLAN
 1/8" = 1'-0"



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THIRD FLOOR - COMMUNICATIONS PLAN

E2.3.4

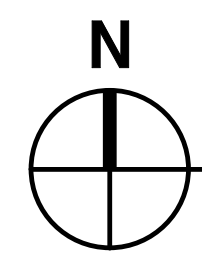
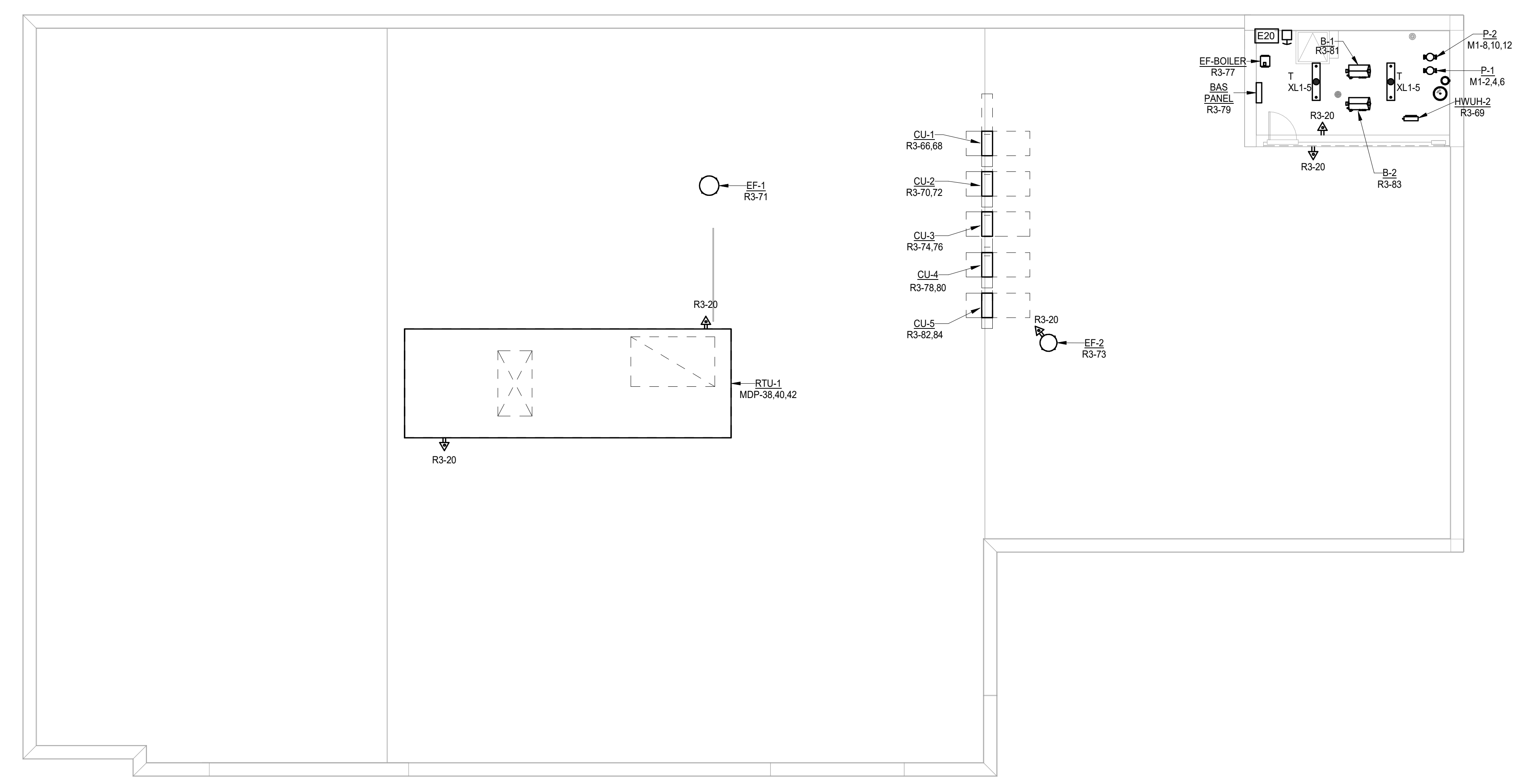


GENERAL POWER NOTES

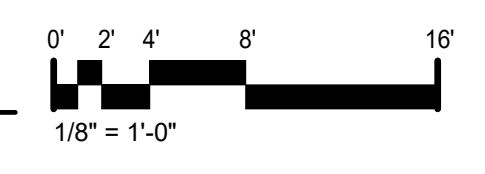
- A. MECHANICAL EQUIPMENT SHOWN IS BASED UPON A "BASIS OF DESIGN" MODEL AND IS NOT GUARANTEED TO BE WHAT IS INSTALLED. COORDINATE EXACT CONNECTION REQUIREMENTS WITH VENDOR SUPPLIED EQUIPMENT PRIOR TO ROUGH-IN.
- B. EQUIPMENT LOCATIONS SHOWN ARE APPROXIMATE AND BASED UPON THE TYPE AND SIZE OF THE "BASIS OF DESIGN" MODEL. VERIFY EXACT LOCATIONS OF ALL CONNECTIONS WITH MECHANICAL CONTRACTOR TO AVOID CONFLICTS AT INSTALLATION.

KEYNOTES

E20	EMERGENCY GAS CUTOFF.
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ROOF - ELECTRICAL PLAN
 1/8" = 1'-0"



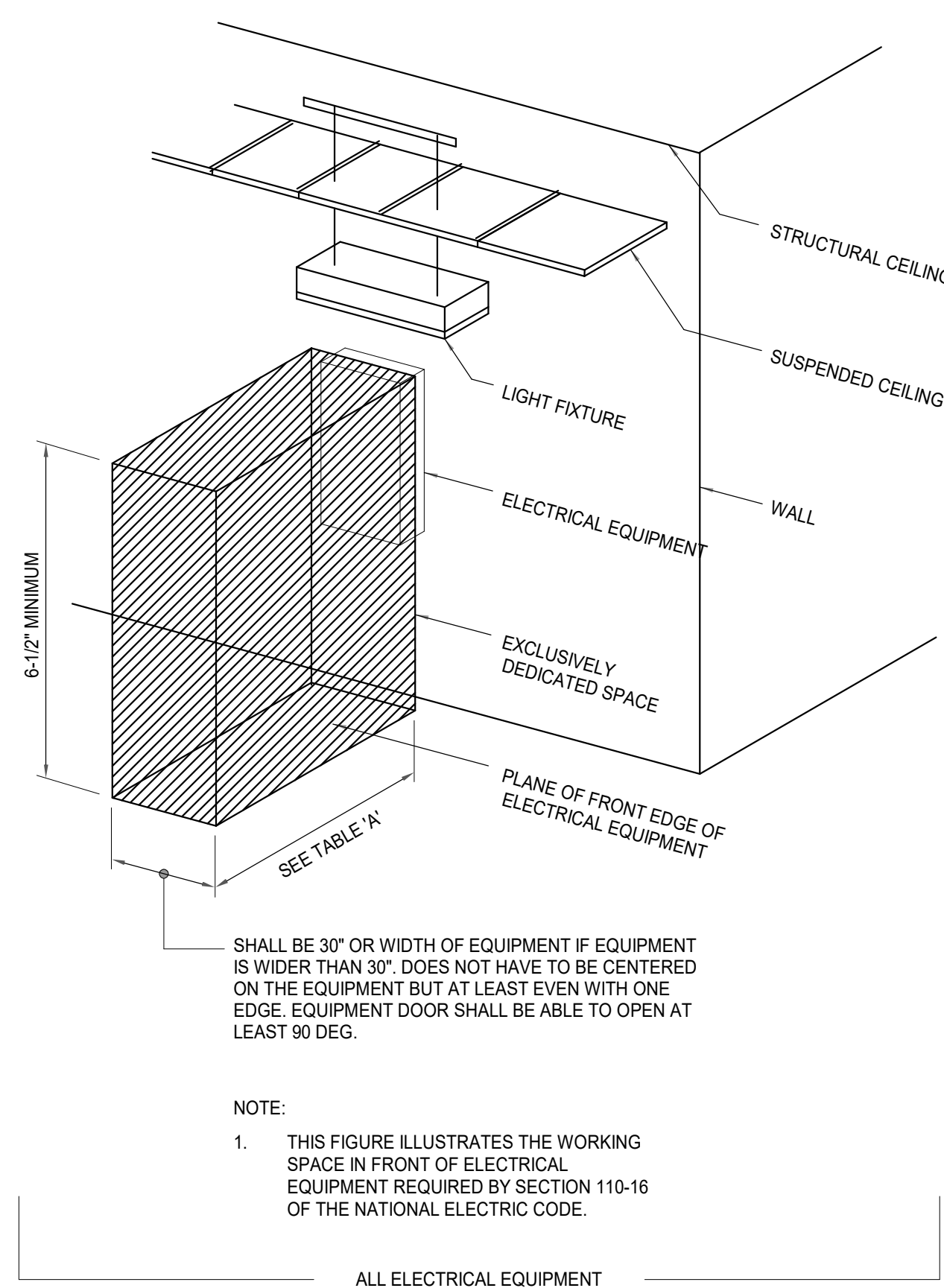
DIVISION OF JUVENILE JUSTICE

NEW HANOVER COUNTY
 WILMINGTON, NC

PROJECT NO. 571990	DATE MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION

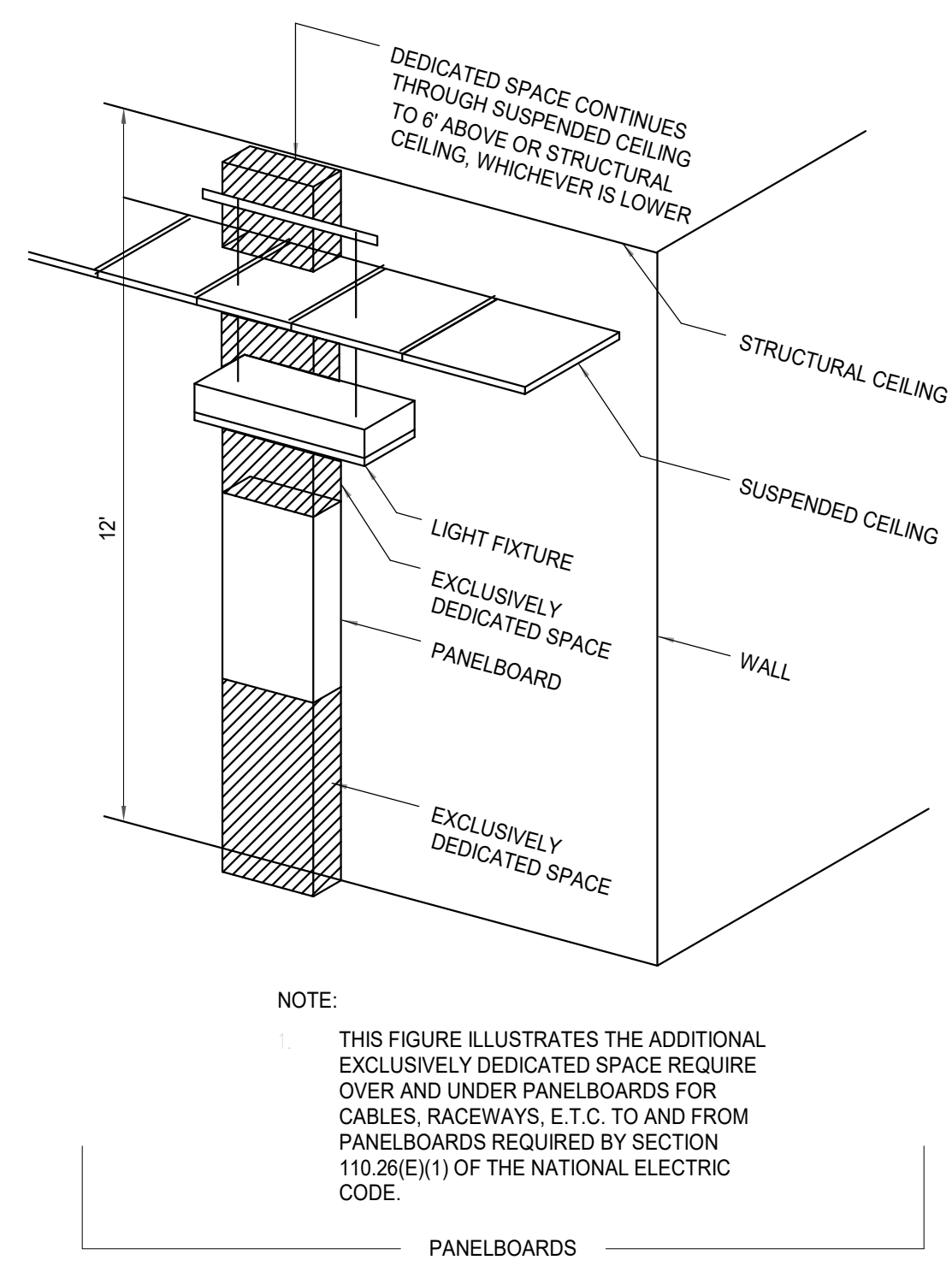
ROOF -
 ELECTRICAL PLAN

E2.4



- GENERAL NOTES:**
- THIS EQUIPMENT INCLUDES BUT IS NOT LIMITED TO PANELBOARDS, SAFETY SWITCHES, MOTOR STARTERS, JUNCTION BOXES AND OTHER ELECTRICAL EQUIPMENT.
 - NO PIPING, DUCTS OR EQUIPMENT FOREIGN TO THE ELECTRICAL EQUIPMENT OR ARCHITECTURAL APPURTENANCES SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THROUGH THE DEDICATED SPACES SHOWN ABOVE.

3 DEDICATED WORKING SPACE CLEARANCE REQUIREMENTS FOR ELECTRICAL EQUIPMENT
NO SCALE

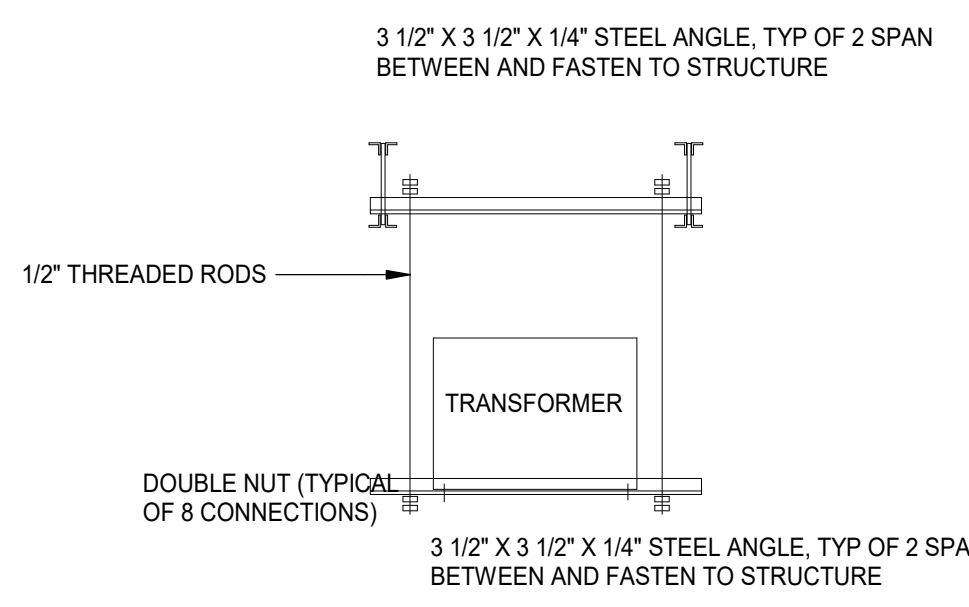


NOTE: THIS FIGURE ILLUSTRATES THE ADDITIONAL EXCLUSIVELY DEDICATED SPACE REQUIRE OVER AND UNDER PANELBOARDS FOR CABLES, RACEWAYS, E.T.C. TO AND FROM PANELBOARDS REQUIRED BY SECTION 110.26(E)(1) OF THE NATIONAL ELECTRIC CODE.

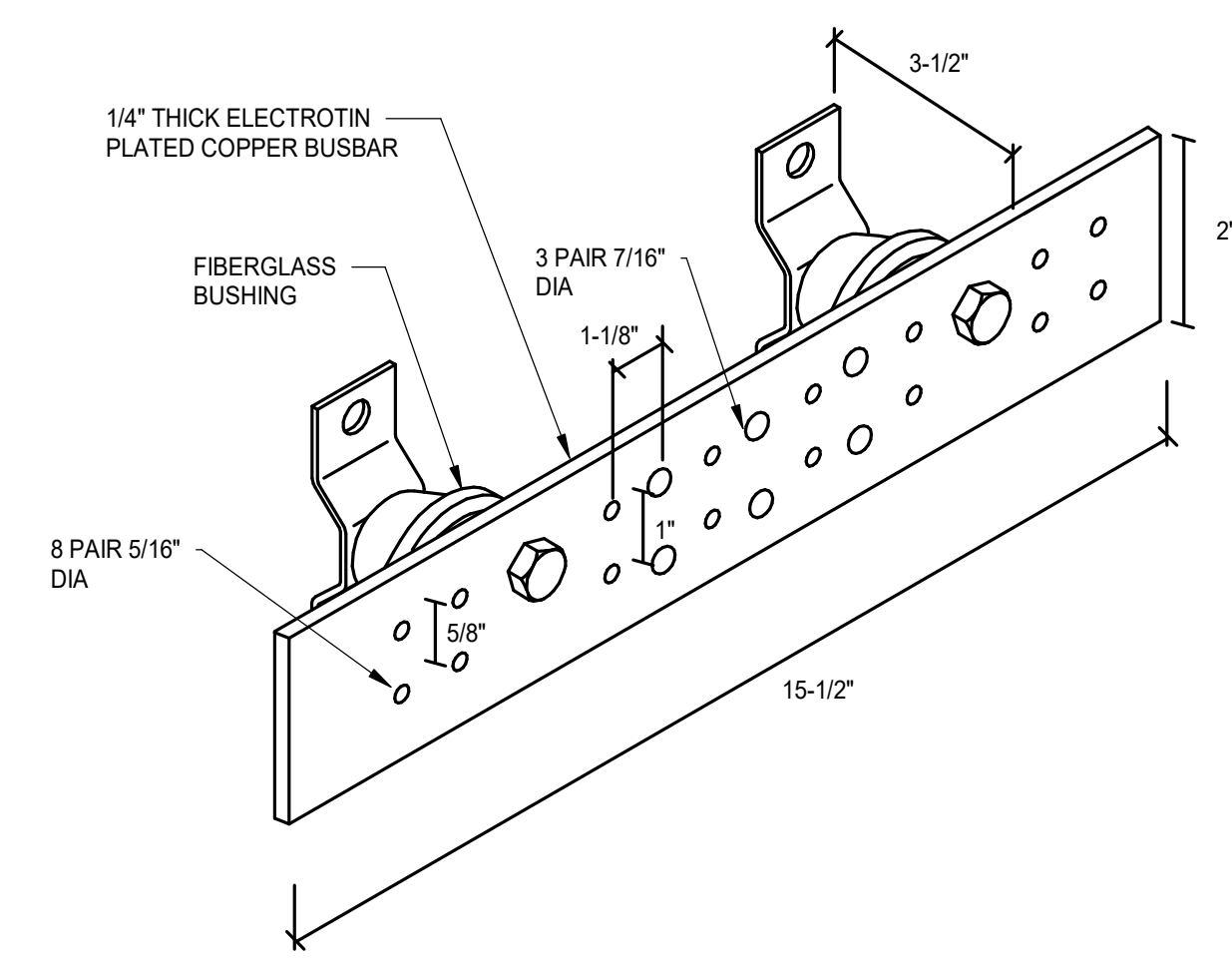
VOLTAGE TO GROUND, NOMINAL	MINIMUM CLEAR DISTANCE		
	CONDITION 1	CONDITION 2	CONDITION 3
0-150	3'-0"	3'-0"	3'-0"
151-600	3'-0"	3'-6"	4'-0"

- WHERE THE "CONDITIONS" ARE AS FOLLOWS:
- EXPOSED LIVE PARTS ON ONE SIDE AND NO LIVE OR GROUNDED PARTS ON THE OTHER SIDE OF THE WORKING SPACE. OR EXPOSED LIVE PARTS ON BOTH SIDES EFFECTIVELY GAUDED BY SUITABLE WOOD OR OTHER INSULATING MATERIALS. INSULATED WIRE OR INSULATED BUSBARS OPERATING AT NOT OVER 300V SHALL NOT BE CONSIDERED LIVE PARTS.
 - EXPOSED LIVE PARTS ON ONE SIDE AND GROUNDED PARTS ON THE OTHER SIDE.
 - EXPOSED LIVE PARTS ON BOTH SIDES OF THE WORK SPACE (NOT GAUDED AS PROVIDED IN CONDITION 1) WITH THE OPERATOR BETWEEN.

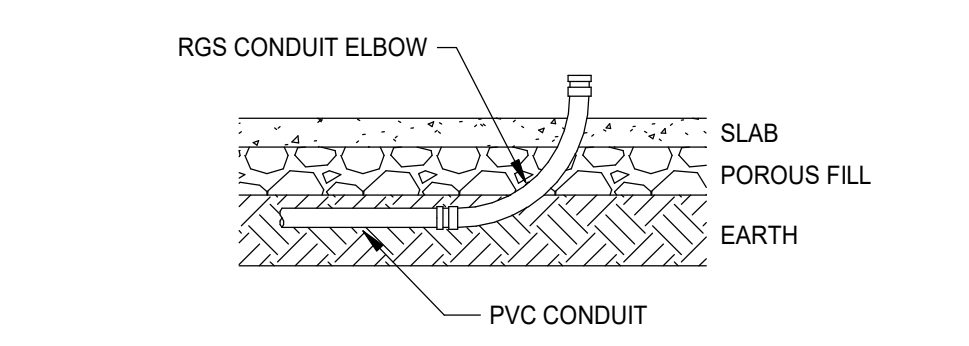
2 PENETRATION THROUGH 2 HOUR FIRE RATED WALL
NO SCALE



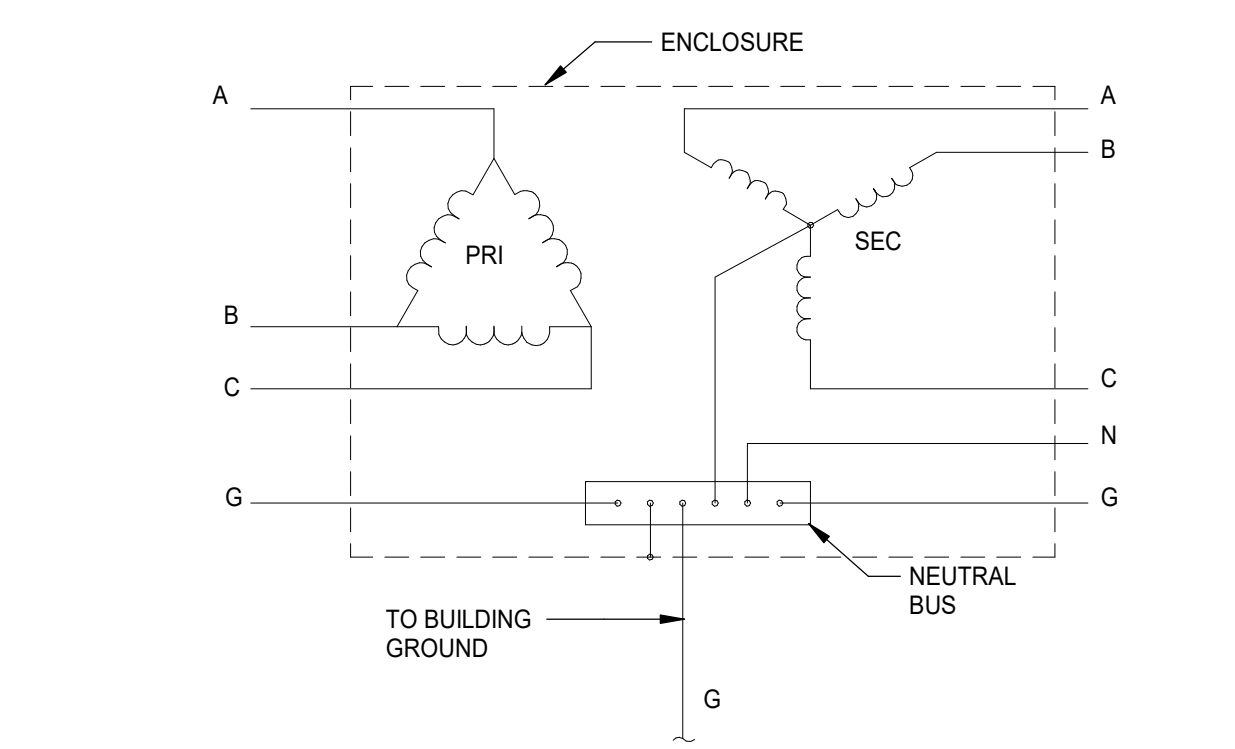
7 TRANSFORMER MOUNTING DETAIL
NO SCALE



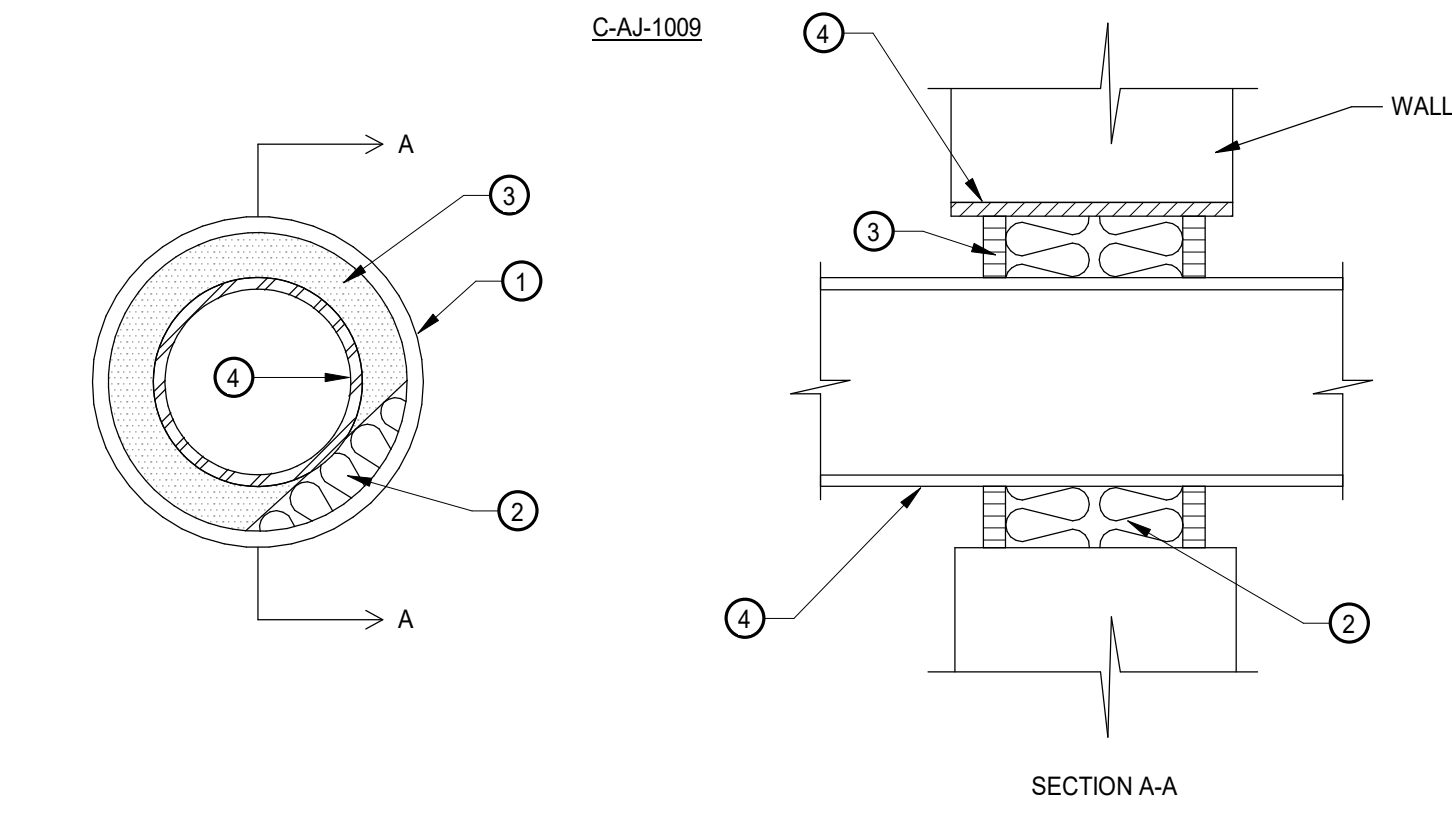
5 TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) DETAIL
NO SCALE



8 PVC TO EMT TRANSITION DETAIL
NO SCALE

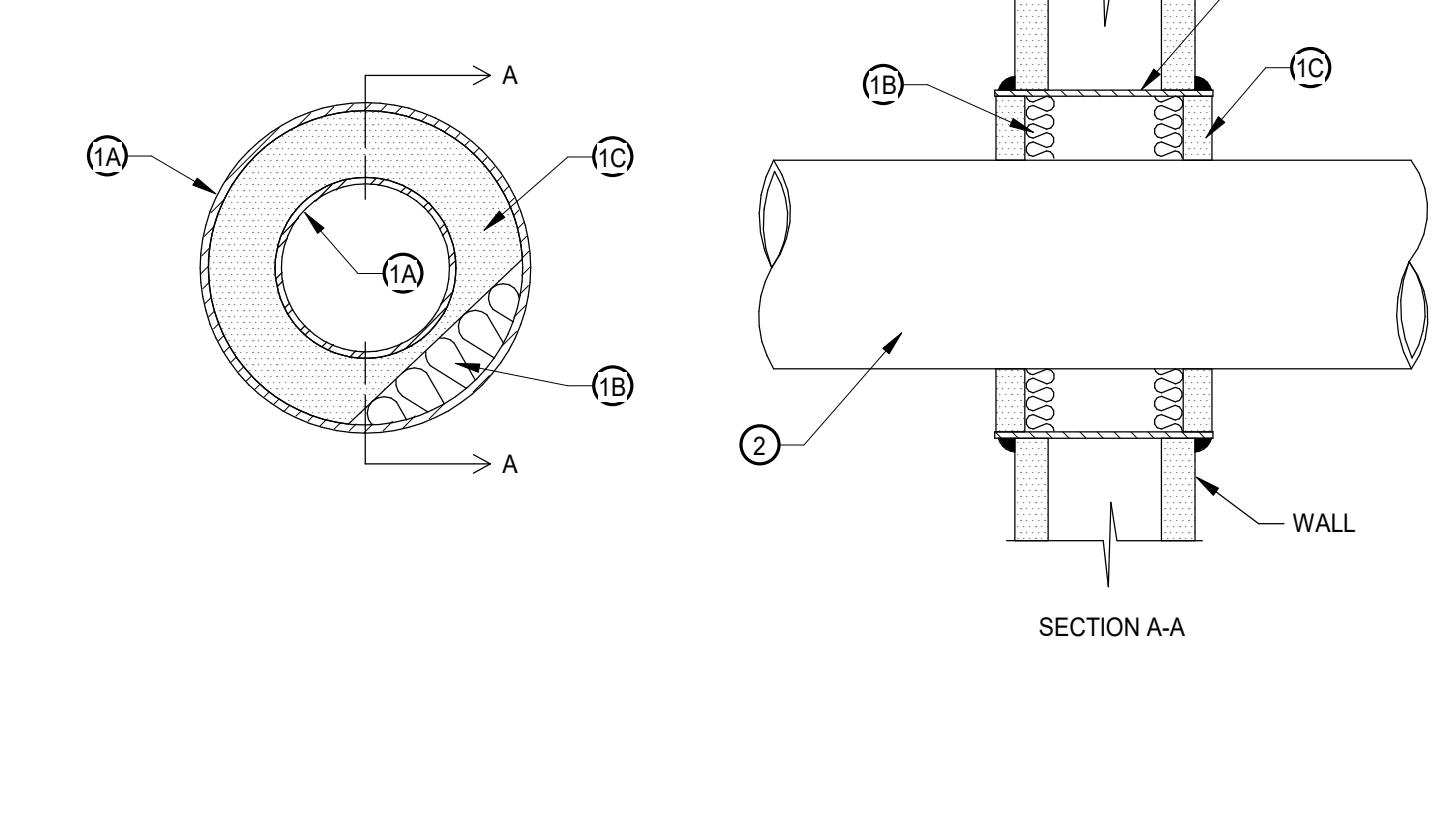


6 TRANSFORMER GROUNDING DIAGRAM
NO SCALE



4 GROUNDING SYSTEM DIAGRAM
NO SCALE

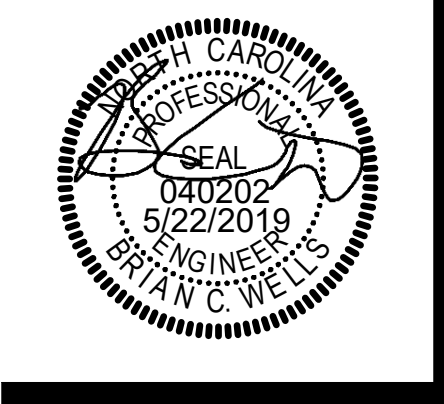
1 PENETRATION THROUGH 1 HOUR FIRE RATED WALL
NO SCALE

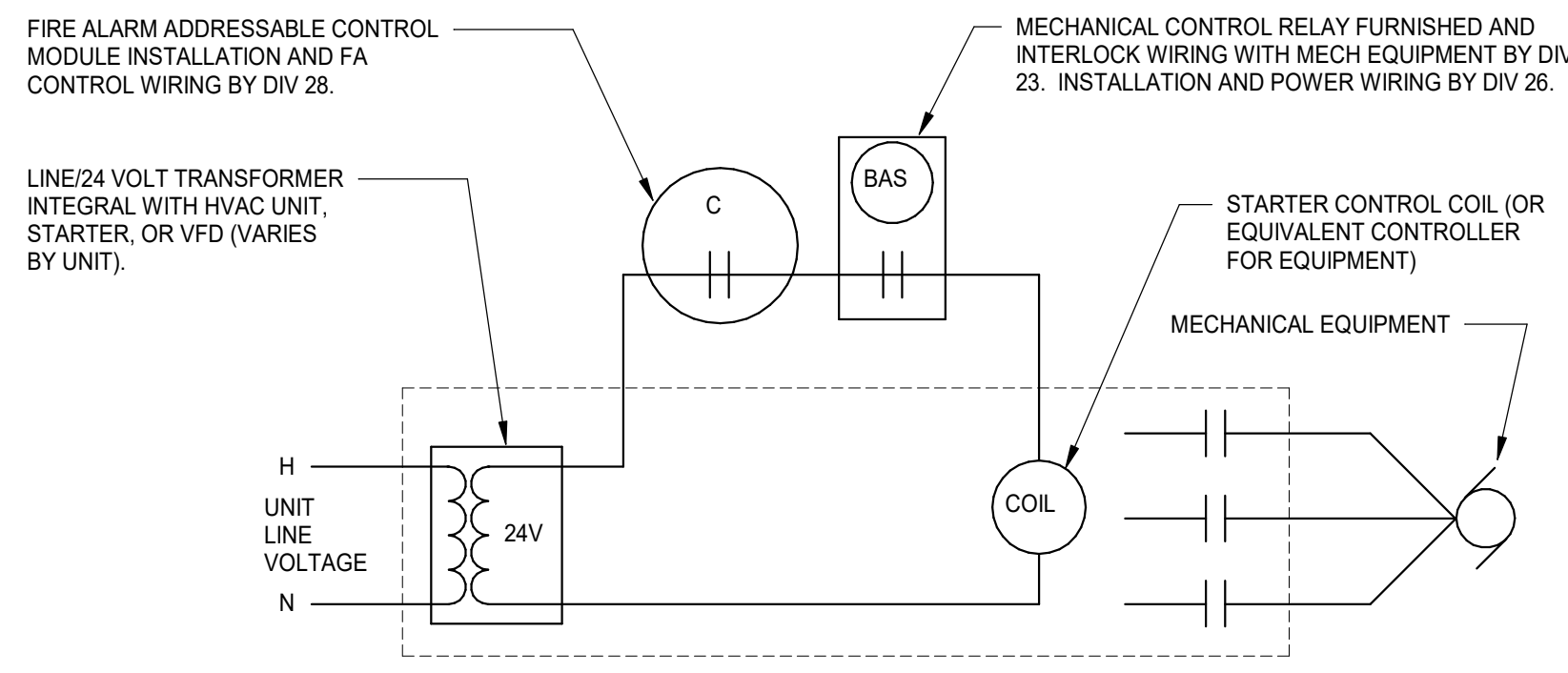


- 1 FIRESTOP SYSTEM** - INSTALLED SYMMETRICALLY ON BOTH SIDES OF WALL ASSEMBLY. THE DETAILS OF THE FIRESTOP SYSTEM SHALL BE AS FOLLOWS:
- STEEL SLEEVE** - CYLINDRICAL SLEEVE FABRICATED FROM MINIMUM 0.019\"/>
 - PACKING MATERIAL** - POLYETHYLENE BACKER ROD OR MINIMUM 1\"/>
 - FILL VOID OR CAVITY MATERIALS** - CAULK - MINIMUM 1\"/>
 - THROUGH PENETRANT** - ONE METALLIC PIPE OR CONDUIT TO BE INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE OR CONDUIT AND PERIPHERY OF OPENING SHALL BE MINIMUM 0\"/>
- MINNESOTA MINING & MFG. CO. - CP 25WB+**
- * BEARING THE UL CLASSIFICATION MARKING

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ELECTRICAL DETAILS





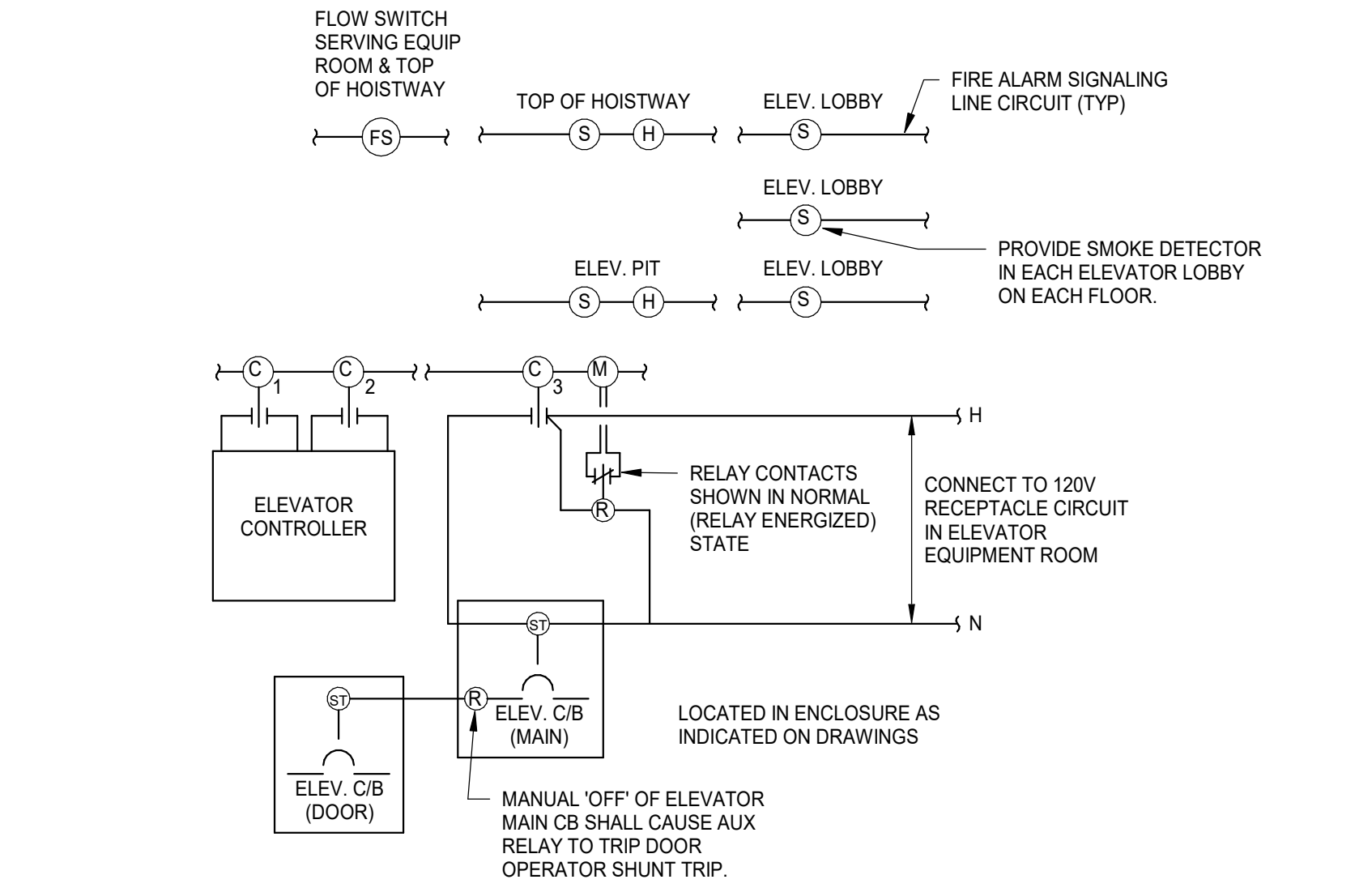
SYSTEMS WITH MULTIPLE MOTORS REQUIRE ONE SHUTDOWN RELAY FOR EACH STARTER OR VFD. THERE MAY BE MORE THAN ONE DUCT SMOKE DETECTOR PER SYSTEM, BUT ONLY ONE CONTROL MODULE IS REQUIRED PER MOTOR. SHUTDOWN IS VIA CONTROL MODULE, NOT VIA DUCT DETECTOR AUX CONTACTS. COORDINATE W/ DIV 23.

UNDER NORMAL CONDITIONS, FA SYSTEM POWERS THE NORMALLY OPEN FA CONTROL MODULE CONTACT TO THE CLOSED POSITION TO ALLOW NORMAL UNIT CONTROL BY BAS.

UPON ALARM SIGNAL FROM THE FIRE ALARM SYSTEM, THE CONTACTS IN THE FA SYSTEM RELEASES CONTROL MODULE TO OPEN POSITION, CAUSING SHUTDOWN OF ASSOCIATED HVAC EQUIPMENT. HVAC EQUIPMENT SHALL NOT BE OPERABLE UNTIL FA CONTROL MODULE IS RESET TO NORMAL CLOSED POSITION.

DIVISION 23 SHALL PROVIDE WIRING BETWEEN BETWEEN FA AND BAS CONTROL MODULES AND HVAC EQUIPMENT CONTROLLER (STARTER, VFD, OR INTEGRAL CONTROL PANEL).

5 FIRE ALARM HVAC UNIT SHUTDOWN WIRING DIAGRAM
NO SCALE



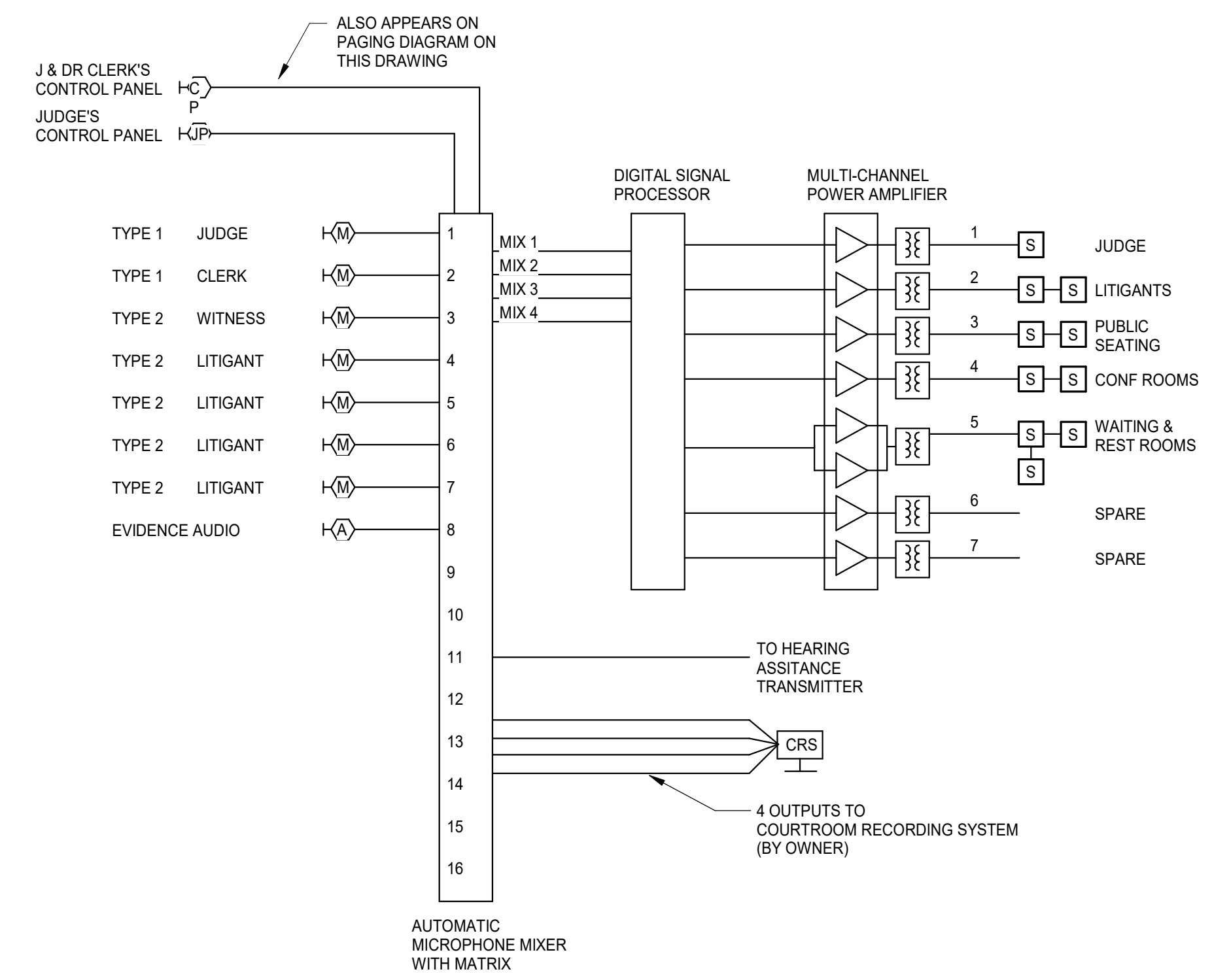
LEGEND:

- |—|—: NORMALLY OPEN CONTACT
- |/—|—: NORMALLY CLOSED CONTACT
- ⊕: SHUNT TRIP COIL/BREAKER (VERIFY CONTROL VOLTAGE - PROVIDE TRANSFORMER IF 24V)
- C: FIRE ALARM ADDRESSABLE CONTROL MODULE
- M: FIRE ALARM ADDRESSABLE MONITOR MODULE
- ⊖: RELAY
- S: SMOKE DETECTOR FOR ELEVATOR RECALL
- H: HEAT DETECTOR (FOR SHUNT TRIP)
- FS: SPRINKLER FLOW SWITCH MONITOR

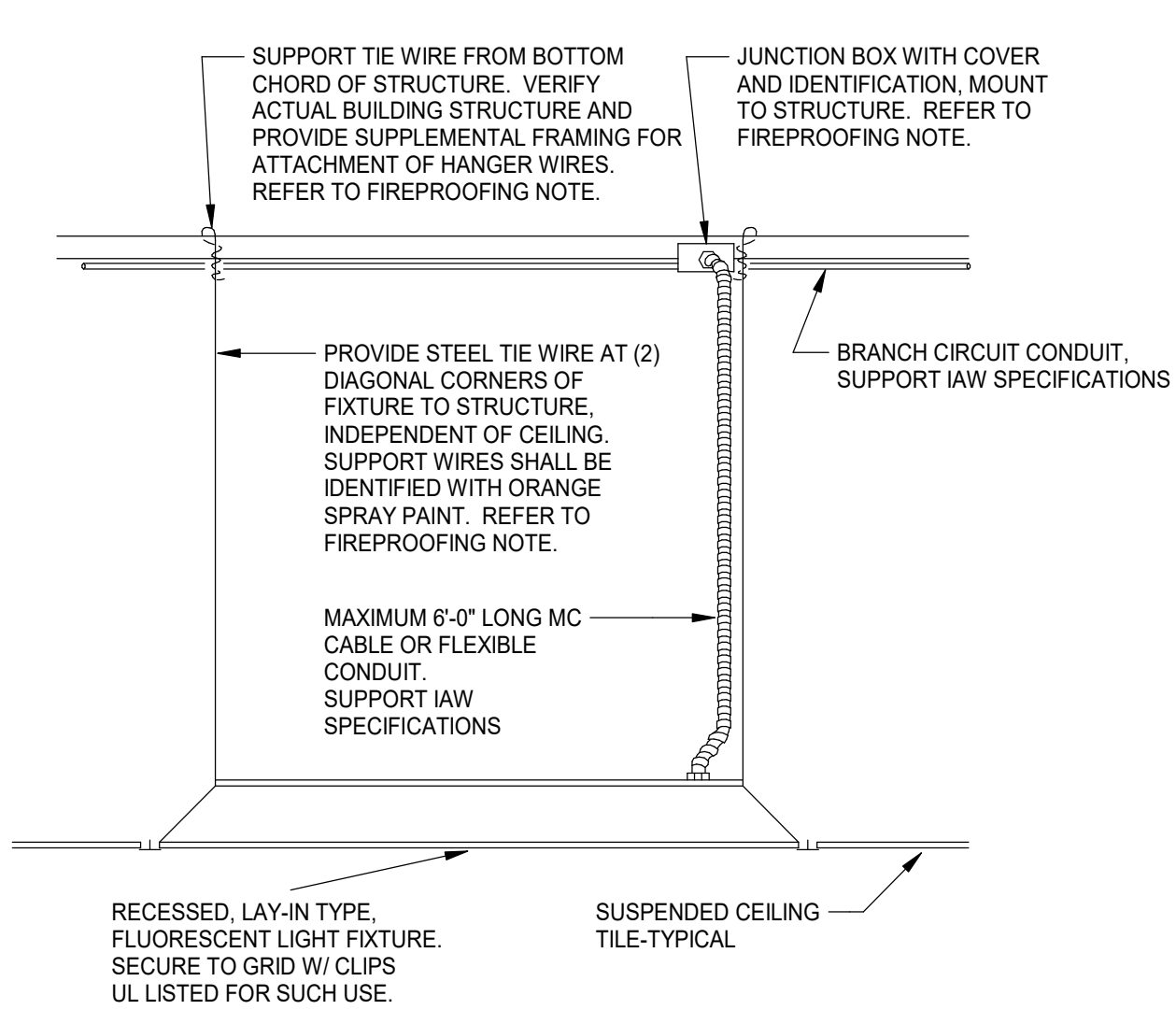
NOTES:

- AN ALARM SIGNAL FROM A SMOKE DETECTOR IN THE ELEVATOR HOISTWAY OR ELEVATOR LOBBY (OTHER THAN AT THE PRIMARY RECALL LEVEL) SHALL ACTUATE THE FIRST ELEVATOR CONTROL MODULE (C1).
- AN ALARM SIGNAL FROM A SMOKE DETECTOR IN THE ELEVATOR LOBBY AT THE PRIMARY RECALL LEVEL SHALL ACTUATE THE SECOND ELEVATOR CONTROL MODULE (C2).
- AN ALARM SIGNAL FROM A HEAT DETECTOR OR FLOW SWITCH SERVING THE ELEVATOR HOISTWAY OR MACHINE ROOM SHALL ACTUATE THE SHUNT TRIP CONTROL MODULE (C3), CAUSING THE ELEVATOR MAIN CIRCUIT BREAKER TO OPEN.
- LOSS OF CONTROL POWER TO THE SHUNT TRIP BREAKER SHALL OPEN THE RELAY CONTACTS AND INITIATE A SUPERVISORY SIGNAL ON THE FIRE ALARM SYSTEM.
- FIRE ALARM CONTROL AND MONITOR MODULES SHALL BE MOUNTED WITHIN 36" OF THE EQUIPMENT CONTROLLED OR MONITORED.
- A HEAT DETECTOR FOR ELEVATOR SHUNT TRIP SHALL BE PROVIDED WITHIN 24" OF EACH SPRINKLER IN THE ELEVATOR HOISTWAY AND MACHINE ROOM.

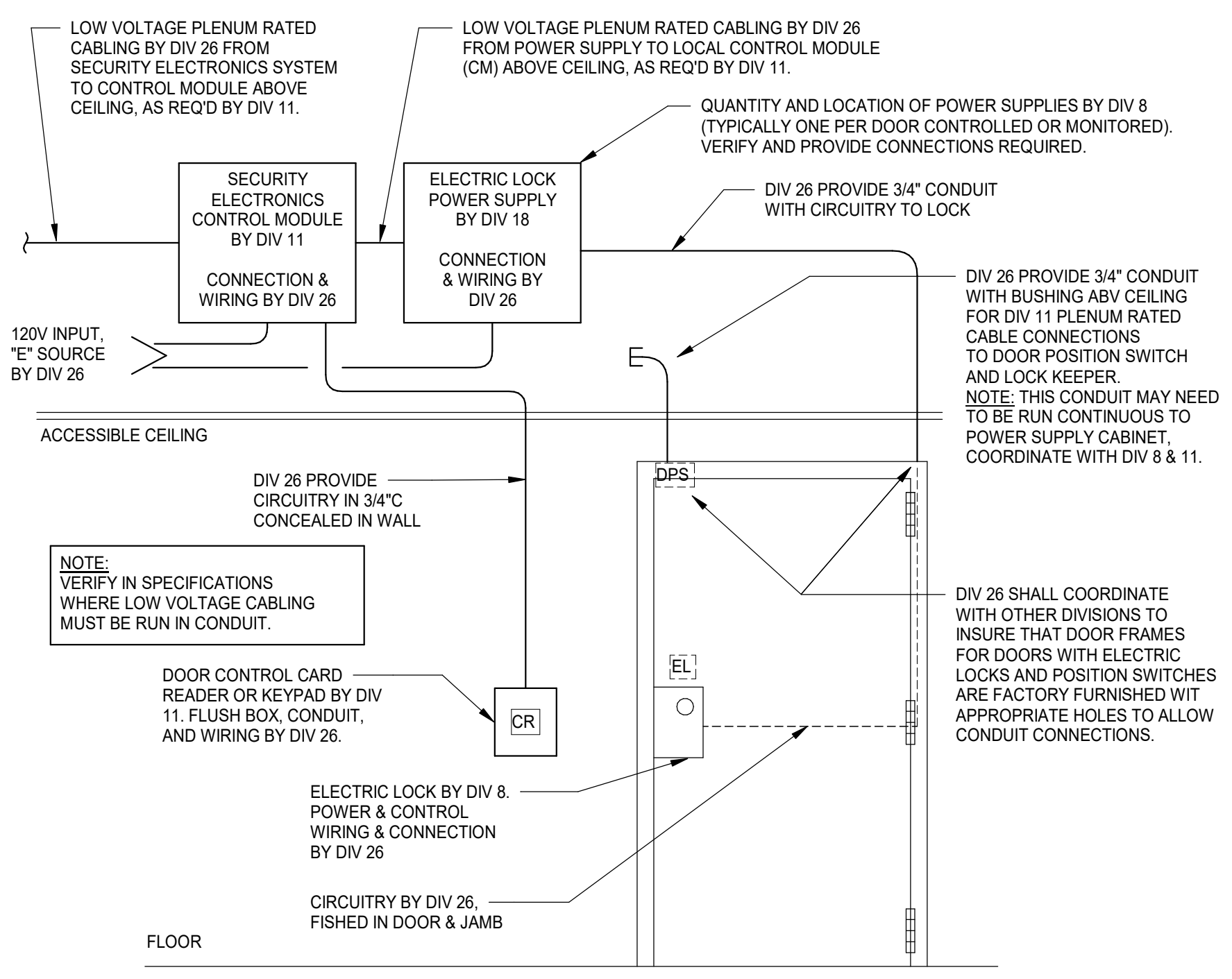
3 ELEVATOR RECALL & SHUNT TRIP DIAGRAM
NO SCALE



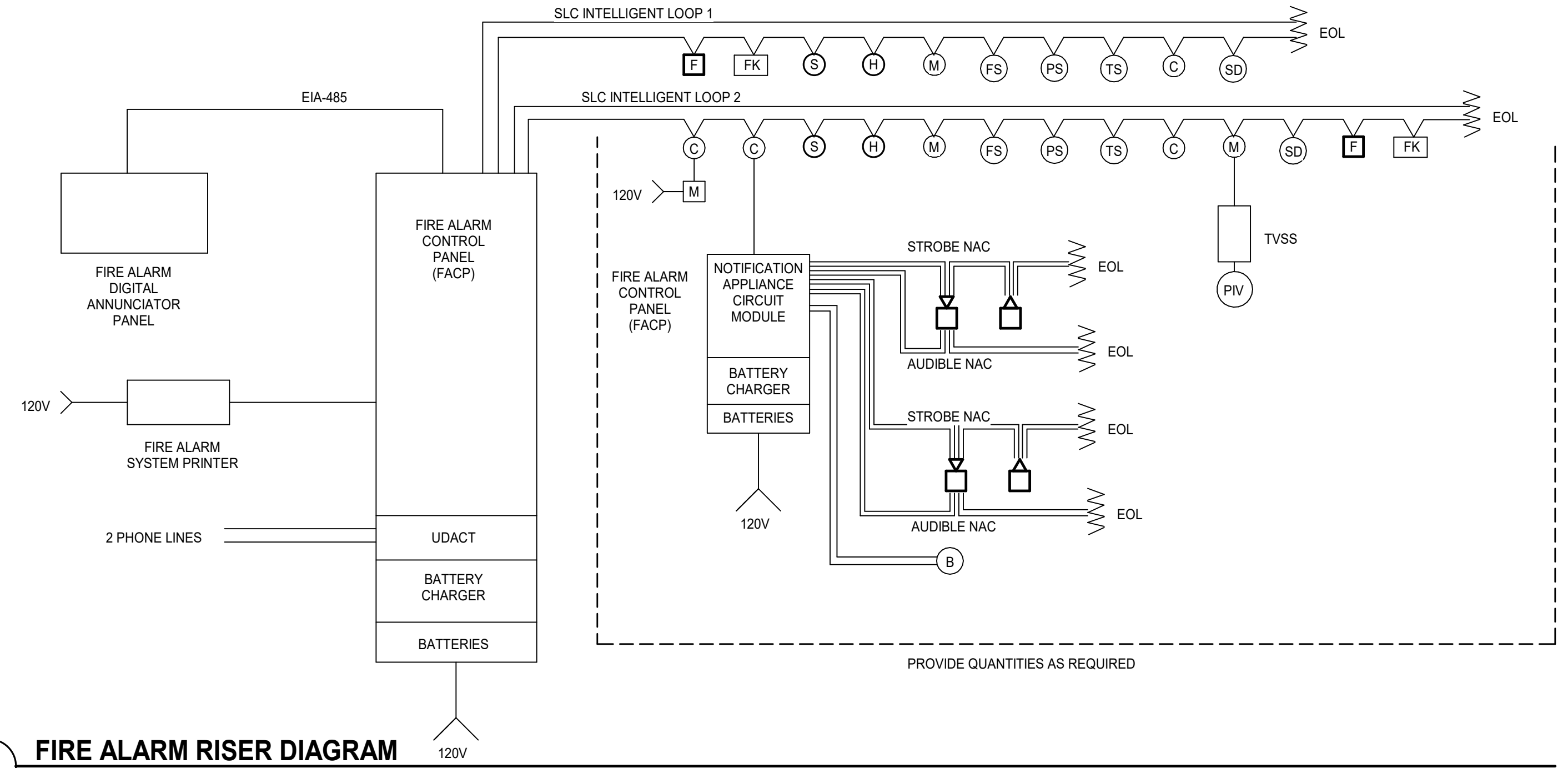
1 DISTRICT COURTROOM G130 SOUND SYSTEM DIAGRAM
NO SCALE



6 RECESSED, LAY-IN, FLUORESCENT LIGHT FIXTURE MOUNTING DETAIL
NO SCALE



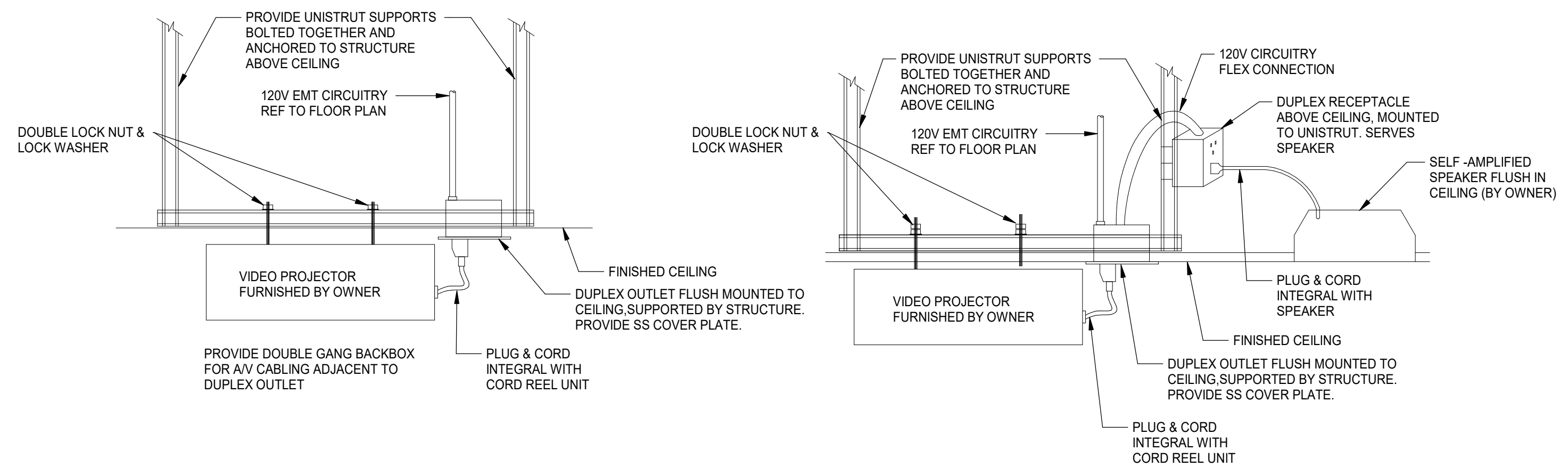
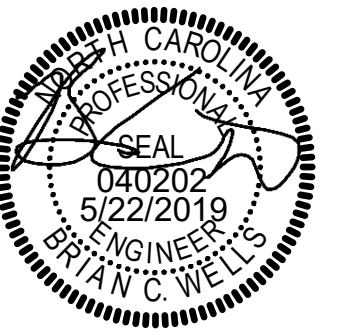
4 ELECTRIC LOCK/CARD READER/SECURITY ELECTRONICS DOOR POSITION SWITCH CONNECTION DETAIL
NO SCALE



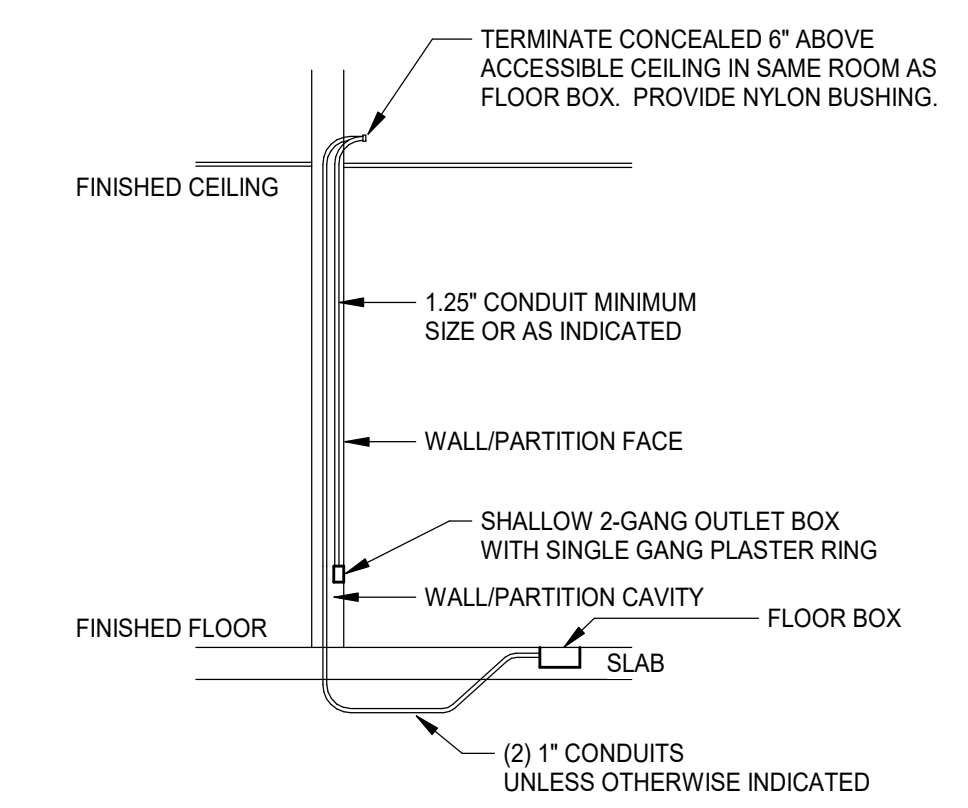
2 FIRE ALARM RISER DIAGRAM
NO SCALE



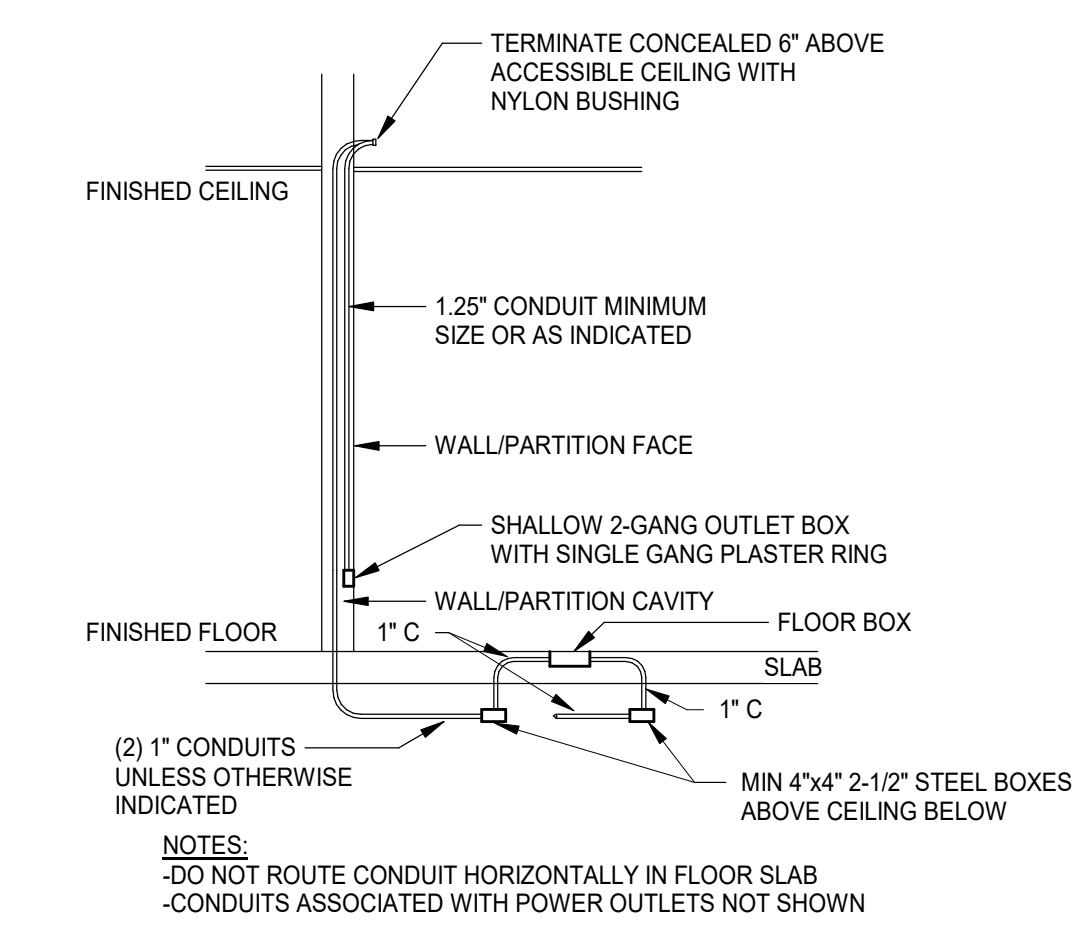
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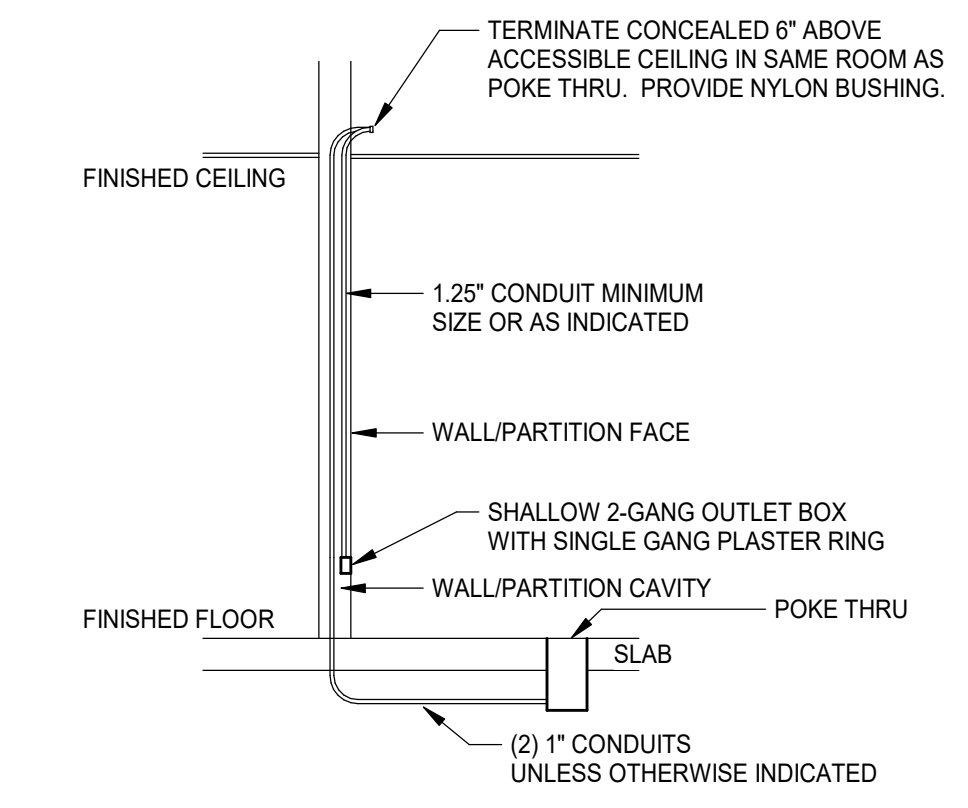
VIDEO PROJECTOR SUPPORT & POWER DETAIL
 NO SCALE



TELECOMMUNICATIONS OUTLET CONDUIT DETAIL - FLOOR BOX
 NO SCALE

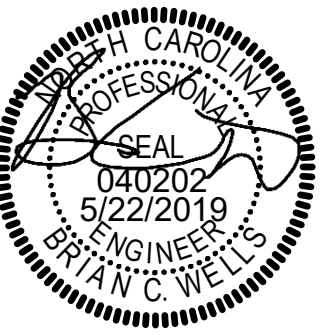


TELECOMMUNICATIONS OUTLET CONDUIT DETAIL - JUNCTION BOXES BELOW FLOOR
 NO SCALE



TELECOMMUNICATIONS OUTLET CONDUIT DETAIL - POKE THRU
 NO SCALE

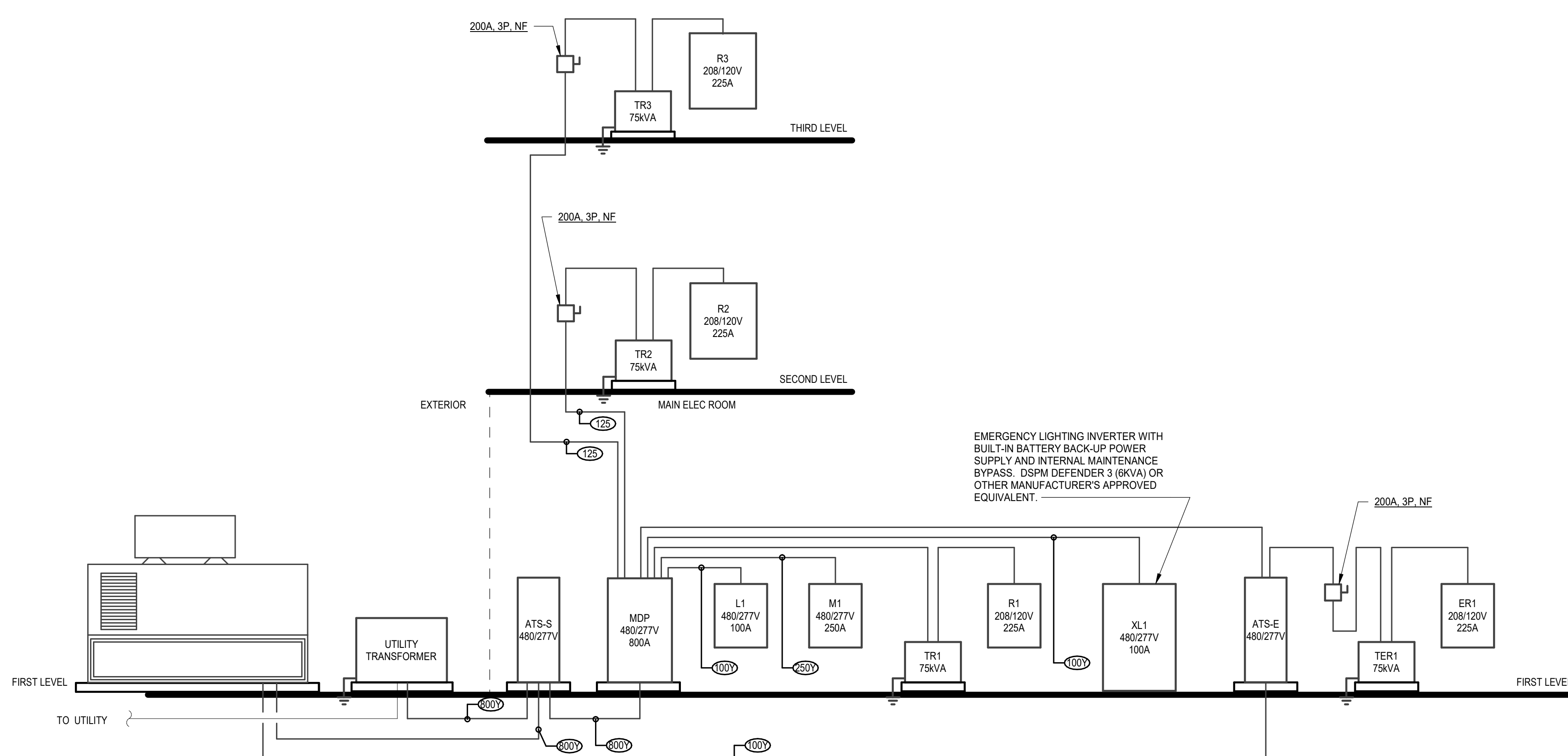
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PANELBOARD SCHEDULE MDP				LOCATION: ELECTRICAL ROOM 125			FED FROM: ATS-S			
800 AMP 480Y/277V 3 PH 4 W				MOUNT: SURFACE			PANEL ASSEMBLY RATED (KAIC): 100 KAIC			
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT
1				16.7	2.0					2
3	125 A	3	TR1		14.1	2.2				4
5							12.9	2.5		6
7				11.0	48.2					8
9	125 A	3	TR2		12.4	48.2				10
11							0.4	48.2		12
13				17.4	1.7					14
15	125 A	3	TR3		14.7	1.5				16
17							17.6	1.3		18
19				7.7						20
21	125 A	3	ATS-E		8.7					22
23							6.9			24
25										26
27										28
29										30
31										32
33										34
35				64.1						36
37										38
39							64.1			40
41										42
				169 kVA	166 kVA	163 kVA				
				611 A	600 A	587 A				

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.15 DED. NEUTRAL.
 (GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8. DED. NEUTRAL.
 (L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
 (LO) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF. DETAIL ON DWG #4.X.
 (ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	9746 VA	125.00%	12163 VA	
EXTERIOR LIGHTING	270 VA	125.00%	338 VA	
RECEPTACLES	79200 VA	56.31%	44600 VA	Total Conn. Load: 497.2 kVA
AC HEAT PUMP	205720 VA	98.03%	201670 VA	Total Est. Demand: 453.2 kVA
ELECTRIC HEAT	44469 VA	100.00%	44469 VA	Total Conn. Current: 598 A
KITCHEN	0 VA	0.00%	0 VA	Total Est. Demand... 545 A
MISCELLANEOUS	19000 VA	70.79%	13450 VA	

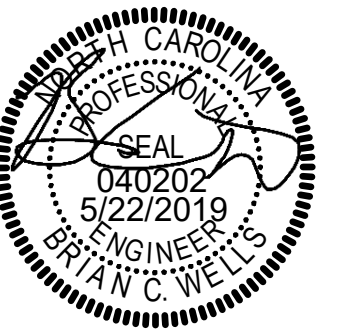


ONE LINE/RISER DIAGRAM

COPPER FEEDER SCHEDULE			
FEEDER ID	# OF SETS	BUILDING WIRE QUANTITY & SIZE TYPE THHN - DRY TYPE THWN - WET	MINIMUM CONDUIT SIZE
30	1	3#10,#10 G	3/4"
35	1	3#8,#10 G	3/4"
40	1	3#8,#10 G	3/4"
45	1	3#8,#10 G	1"
50	1	3#8,#10 G	1"
60	1	3#4,#10 G	1"
70	1	3#4,#8 G	1 1/4"
80	1	3#3,#8 G	1 1/4"
90	1	3#2,#8 G	1 1/4"
100	1	3#1,#8 G	1 1/4"
110	1	3#2,#6 G	1 1/2"
125	1	3#1,#6 G	1 1/2"
150	1	3#10,#6 G	2"
175	1	3#20,#6 G	2"
200	1	3#30,#6 G	2"
225	1	3#40,#4 G	2 1/2"
250	1	3-250KCM,#4 G	2 1/2"
300	1	3-350KCM,#4 G	2 1/2"
350	2	3#20,#3 G	2"
400	1	3-600KCM,#3 G	4"
450	2	3#40,#2 G	2 1/2"
500	2	3-250KCM,#2 G	2 1/2"
600	2	3-350KCM,#1 G	3"
700	2	3-500KCM,#10 G	4"
800	2	3-600KCM,#10 G	4"
1000	3	4-500KCM,#20 G	4"
1200	4	3-350KCM,#30 G	3"
1800	4	3-600KCM,#40 G	4"
2000	5	3-600KCM,#250 G	4"
2500	6	3-600KCM,#350 G	4"

TRANSFORMER SCHEDULE						
kVA	TYPE	PRIMARY	SECONDARY	COPPER PRIMARY FEEDER	COPPER SECONDARY FEEDER	BONDING CONDUCTOR
15 kVA	LINEAR	480V-3Ø	208Y/120V 3#10,#10G,3/4" C	4#4,#8G,1" C	#8	
30 kVA	LINEAR	480V-3Ø	208Y/120V 3#8,#10G,1" C	4#1,#8G,1 1/2" C	#6	
45 kVA	LINEAR	480V-3Ø	208Y/120V 3#4,#8G,1-1/4" C	4#10,#4G,2" C	#4	
75 kVA	LINEAR	480V-3Ø	208Y/120V 3#1,#6G,1-1/2" C	4-250KCM,#2G, 2-1/2" C	#2	
112.5 kVA	LINEAR	480V-3Ø	208Y/120V 3#20,#6G,2" C	4-500KCM,#10G,4" C	#10	
150 kVA	LINEAR	480V-3Ø	208Y/120V 3#40,#4G,2-1/2" C	(2 SETS) 4-250KCM,#30G, 2-1/2" C	#30	
225 kVA	LINEAR	480V-3Ø	208Y/120V (2 SETS) 3#20,# 3-G,2" C	(2 SETS) 4-600KCM,#30G, 4" C	#30	
300 kVA	LINEAR	480V-3Ø	208Y/120V (2 SETS) 3#40,# 2 G,2-1/2" C	(4 SETS) 4-350KCM,#30G, 4" C	#30	

Mechanical Equipment - ELECTRICAL DATA												
Mark	Voltage	Pole	HP	FLA	MCA	MOCF	kVA	Disconnect	Branch Circuiting	Panel	Circuit Number	Comments
B-1	120 V	1		10.0 A	0.0 A		1.2 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R3	81	
B-2	120 V	1		10.0 A	0.0 A		1.2 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R3	83	
BAS PANEL	120 V	1					0.0 kVA	N/A	2#12, 1#12 G, 3/4" C	R3	79	
CU-1	208 V	2		13.0 A	2.0 A	2.7 kVA	30A2PNF, NEMA 3R	3#12, 1#12 G, 3/4" C	R3	66,68		
CU-2	208 V	2		13.0 A	2.0 A	2.7 kVA	30A2PNF, NEMA 3R	3#12, 1#12 G, 3/4" C	R3	70,72		
CU-3	208 V	2		13.0 A	2.0 A	2.7 kVA	30A2PNF, NEMA 3R	3#12, 1#12 G, 3/4" C	R3	74,76		
CU-4	208 V	2		13.0 A	2.0 A	2.7 kVA	30A2PNF, NEMA 3R	3#12, 1#12 G, 3/4" C	R3	78,80		
CU-5	208 V	2		13.0 A	2.0 A	2.7 kVA	30A2PNF, NEMA 3R	3#12, 1#12 G, 3/4" C	R3	82,84		
DSS-1	208 V	2	0.0 A	1.0 A	2.0 A	0.2 kVA	N/A	3#12, 1#12 G, 3/4" C				POWERED BY OUTDOOR UNIT
DSS-2	208 V	2	0.0 A	1.0 A	2.0 A	0.2 kVA	N/A	3#12, 1#12 G, 3/4" C				POWERED BY OUTDOOR UNIT
DSS-3	208 V	2	0.0 A	1.0 A	2.0 A	0.2 kVA	N/A	3#12, 1#12 G, 3/4" C				POWERED BY OUTDOOR UNIT
DSS-4	208 V	2	0.0 A	1.0 A	2.0 A	0.2 kVA	N/A	3#12, 1#12 G, 3/4" C				POWERED BY OUTDOOR UNIT
DSS-5	208 V	2	0.0 A	1.0 A	2.0 A	0.2 kVA	N/A	3#12, 1#12 G, 3/4" C				POWERED BY OUTDOOR UNIT
EF-1	120 V	1				1.2 kVA	30A2PNF, NEMA 3R	2#12, 1#12 G, 3/4" C	R3	71		
EF-2	120 V	1				0.5 kVA	30A2PNF, NEMA 3R	2#12, 1#12 G, 3/4" C	R3	73		
EF-299	120 V	1				0.7 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R2	83		
EF-BOILER	115 V	1				0.1 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R3	77		
EF-ELECT125	120 V	1				0.7 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R1	79		
EF-ELEC360	120 V	1				0.7 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R3	75		
EF-VSP	120 V	1				0.7 kVA	30A2PNF, NEMA 1	2#12, 1#12 G, 3/4" C	R1	81		
HWHU-1	120 V	1	9.0 A	15.0 A	15.0 A	1.1 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	83		
HWHU-2	120 V	1	0.8 A	1.0 A	1.8 A	0.1 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	69		
P-1	460 V	3	3	0.0 A	0.0 A	4.0 kVA	30A3PNF, NEMA 1	3#12, 1#12 G, 3/4" C	M1	2,4,6		
P-2	460 V	3	3	0.0 A	0.0 A	4.0 kVA	30A3PNF, NEMA 1	3#12, 1#12 G, 3/4" C	M1	8,10,12		
RTU-1	460 V	3	0.0 A	231.2 A	250.0 A	192.2 kVA	BY DIV. 23	4-350, 1#4 G, 3" C	MDP	38,40,42		
TU1-1	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	65		
TU1-2	120 V	1	0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	66		
TU1-2A	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	67		
TU1-2B	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	68		
TU1-3	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	69		
TU1-4	120 V	1	0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	70		
TU1-5	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	67		
TU1-6	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	67		
TU1-7	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	67		
TU1-8	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	71		
TU1-9	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	67		
TU1-10	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	72		
TU1-11	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	73		
TU1-12	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	75		
TU1-13	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	77		
TU2-1A	120 V	1	0.0 A	6.9 A	15.0 A	0.8 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	65		
TU2-1B	120 V	1	0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	67		
TU2-2	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	68		
TU2-3	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	69		
TU2-4	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R1	71		
TU2-5	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	73		
TU2-6	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	75		
TU2-7	120 V	1	0.0 A	2.0 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	77		
TU2-8	120 V	1	0.0 A	5.4 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	79		
TU2-9	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R2	81		
TU3-1	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	56		
TU3-2	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	57		
TU3-3	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	58		
TU3-4	120 V	1	0.0 A	2.0 A	15.0 A	0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	59		
TU3-5	120 V	1	0.0 A	5.4 A	15.0 A	0.7 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	60		
TU3-6	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	61		
TU3-7	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R3	61		
TU3-8	120 V	1				0.2 kVA	BY DIV. 23	2#12, 1#12 G, 3/4" C	R			



PANELBOARD SCHEDULE L1										LOCATION: ELECTRICAL ROOM 125		FED FROM: MDP					
100 AMP MLO										480Y/277V		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): 22 KAIC	
CKT	BRKR	POLE	LOAD			A	B	C	LOAD			POLE	BRKR	CKT			
1	20 A	1	INTERIOR LIGHTING			0.9	1.2		INTERIOR LIGHTING TESTING/...			1	20 A	2			
3	20 A	1	INTERIOR LIGHTING WAITING...				1.4	0.7	INTERIOR LIGHTING GALLERY...			1	20 A	4			
5	20 A	1	INTERIOR LIGHTING CHIEF...					1.6	0.9	INTERIOR LIGHTING COURT...			1	20 A	6		
7	20 A	1	SPARE			0.0	0.0		SPARE			1	20 A	8			
9	--	--	SPACE ONLY				0.0	0.0	SPACE ONLY			--	--	10			
11	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY			--	--	12		
						2 kVA	2 kVA	3 kVA									
						7 A	8 A	9 A									

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.15 DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8 DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LO) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4-X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	6716 VA	125.00%	8395 VA	Total Conn. Load: 6.7 kVA Total Est. Demand: 8.4 kVA Total Conn. Current: 8 A Total Est. Demand... 10 A
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	0 VA	0.00%	0 VA	
AC / HEAT PUMP	0 VA	0.00%	0 VA	
ELECTRIC HEAT	0 VA	0.00%	0 VA	
KITCHEN	0 VA	0.00%	0 VA	
MISCELLANEOUS	0 VA	0.00%	0 VA	

PANELBOARD SCHEDULE M1										LOCATION: ELECTRICAL ROOM 125		FED FROM: MDP					
250 AMP MLO										480Y/277V		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): 65 KAIC	
CKT	BRKR	POLE	LOAD			A	B	C	LOAD			POLE	BRKR	CKT			
1	45 A	3	ELEVATOR 1			11.0	1.3		ELEVATOR 1			3	20 A	2			
3	45 A	3	ELEVATOR 2			11.0	1.3		ELEVATOR 2			3	20 A	4			
5	45 A	3	ELEVATOR 3			11.0	1.3		ELEVATOR 3			3	20 A	6			
7	45 A	3	ELEVATOR 4			11.0	1.3		ELEVATOR 4			3	20 A	8			
9	45 A	3	ELEVATOR 5			11.0	1.3		ELEVATOR 5			3	20 A	10			
11	--	--	SPACE ONLY					11.0	3.3	EWH-1			3	20 A	12		
13	--	--	SPACE ONLY					11.0	3.3	EWH-1			3	20 A	14		
15	45 A	3	ELEVATOR 3			11.0	1.3		ELEVATOR 3			3	20 A	16			
17	--	--	SPACE ONLY					2.5	3.3	EWH-2			3	20 A	18		
19	--	--	SPACE ONLY					2.5	3.3	EWH-2			3	20 A	20		
21	20 A	3	DWBSP-1			0.0	0.0		DWBSP-1			3	20 A	22			
23	--	--	SPACE ONLY					0.0	3.3	EWH-3			3	20 A	24		
25	--	--	SPACE ONLY					0.0	3.3	EWH-3			3	20 A	26		
27	45 A	3	SPARE			0.0	0.0		SPARE			3	20 A	28			
29	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY			--	--	30		
31	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY			--	--	32		
33	20 A	3	SPARE			0.0	0.0		SPARE			--	--	34			
35	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY			--	--	36		
37	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY			--	--	38		
39	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY			--	--	40		
41	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY			--	--	42		
						48 kVA	48 kVA	48 kVA									
						174 A	174 A	174 A									

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.15 DED. NEUTRAL.
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(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LO) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4-X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	Total Conn. Load: 144.5 kVA Total Est. Demand: 146.4 kVA Total Conn. Current: 174 A Total Est. Demand... 176 A
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	0 VA	0.00%	0 VA	
AC / HEAT PUMP	0 VA	0.00%	0 VA	
ELECTRIC HEAT	30000 VA	100.00%	30000 VA	
KITCHEN	0 VA	0.00%	0 VA	
MISCELLANEOUS	0 VA	0.00%	0 VA	

PANELBOARD SCHEDULE R3										LOCATION: SUPPLY 360		FED FROM: TR3					
225 AMP MCB										208Y/120V		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): 22 KAIC	
CKT	BRKR	POLE	LOAD			A	B	C	LOAD			POLE	BRKR	CKT			
1	20 A	1	RECEPTACLES CHIEF COURT...			1.8	1.6		RECEPTACLES COURT...			1	20 A	2			
3	20 A	1	RECEPTACLES OPEN OFFICE/...				1.4	1.6	RECEPTACLES COURT...			1	20 A	4			
5	20 A	1	RECEPTACLES COURT...					1.6	1.8	RECEPTACLES SUPPLY 322			1	20 A	6		
7	20 A	1	RECEPTACLES CORRIDOR 309			1.8	1.6		RECEPTACLES SUPPLY 322			1	20 A	8			
9	20 A	1	RECEPTACLES WORK/ COPY/...				0.2	1.4	RECEPTACLES WORK/ COPY/...			1	20 A	10			
11	20 A	1	RECEPTACLES COURT...					0.7	1.1	RECEPTACLES WOMENS TLT 306			1	20 A	12		
13	20 A	1	RECEPTACLES CORRIDOR 334			1.3	1.3		RECEPTACLES DATA 349			1	20 A	14			
15	20 A	1	RECEPTACLES DATA 349				0.9	1.1	RECEPTACLES COURT...			1	20 A	16			
17	20 A	1	RECEPTACLES COURT...					1.1	1.4	RECEPTACLES COURT...			1	20 A	18		
19	20 A	1	RECEPTACLES			0.7	0.9		RECEPTACLES			1	20 A	20			
21	20 A	1	RECEPTACLES BREAK 332				0.4	0.2	REFRIGERATOR BREAK 332			1	20 A	22			
23	20 A	1	INTERIOR LIGHTING					0.1	0.4	REFRIGERATOR ROOM 301, 334			1	20 A	24		
25	20 A	1	INTERIOR LIGHTING			0.1	0.0		SPARE			1	20 A	26			
27	20 A	1	INTERIOR LIGHTING				0.1	0.0	SPARE			1	20 A	28			
29	20 A	1	SPARE					0.0	0.0	SPARE			1	20 A	30		
31	--	--	SPACE ONLY			0.0	0.0		SPACE ONLY			--	--	32			
33	--	--	SPACE ONLY				0.0	0.0	SPACE ONLY			--	--	34			
35	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY			--	--	36		
37	--	--	SPACE ONLY			0.0	0.0		SPACE ONLY			--	--	38			
39	--	--	SPACE ONLY				0.0	0.0	SPACE ONLY			--	--	40			
41	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY			--	--	42		
43	--	--	SPACE ONLY			0.0	0.0		SPACE ONLY			--	--	44			
45	--	--	SPACE ONLY				0.0	0.0	SPACE ONLY			--	--	46			
47	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY			--	--	48		
49	--	--	SPACE ONLY			0.0	0.0		SPACE ONLY			--	--	50			
51	--	--	SPACE ONLY				0.0	0.0	SPACE ONLY			--	--	52			
53	--	--	SPACE ONLY					0.0	0.0	SPACE ONLY			--	--	54		
55	--	--	SPACE ONLY			0.0	0.2		TU3-1 CHIEF COUNSELOR 313			1	15 A	56			
57	15 A	1	TU3-2 COURT COUNSELOR 311				0.2	0.2	TU3-3 OPEN OFFICE / WAITING...			1	15 A	58			
59	15 A	1	TU3-4 LOBBY 301					0.2	0.7	TU3-5 CORRIDOR 306			1	15 A	60		
61	15 A	1	TU3-4, 7, 8, 9, 12, 13			1.2	0.2		TU3-10 CORRIDOR 337B			1	15 A	62			
63	15 A	1	TU3-11 CORRIDOR 309				0.2	0.7	TU3-14 COURT COUNSELOR 330			1	15 A	64			
65	15 A	1	TU3-15 CORRIDOR 334					0.7	1.4	CU-1			2	20 A	66		
67	15 A	1	TU3-16 CORRIDOR 337C			0.2	1.4		CU-1			2	20 A	68			
69	20 A	1	HWUH-2 BOILER ROOM					0.1	1.4	CU-2			2	20 A	70		
71	20 A	1	EF-1					1.2	1.4	CU-2			2	20 A	72		
73	20 A	1	EF-2			0.5	1.4		CU-3			2	20 A	74			
75	20 A	1	EF-ELEC351				0.7	1.4	CU-3			2	20 A	76			
77	20 A	1	EF-BOILER					0.1	1.4	CU-4			2	20 A	78		
79	20 A	1	BAS PANEL BOILER ROOM			0.0	1.4		CU-4			2	20 A	80			
81	20 A	1	B-1				1.2	1.4	CU-5			2	20 A	82			
83	20 A	1	B-2					1.2	1.4	CU-5			2	20 A	84		
						17 kVA	15 kVA	18 kVA									
						148 A	122 A	150 A									

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.15 DED. NEUTRAL.
(GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8 DED. NEUTRAL.
(L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
(LO) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4-X.
(ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	192 VA	125.00%	240 VA	Total Conn. Load: 49.6 kVA Total Est. Demand: 37.4 kVA Total Conn. Current: 138 A Total Est. Demand... 104 A
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	28100 VA	69.16%	18050 VA	
AC / HEAT PUMP	13500 VA	76.00%	10260 VA	
ELECTRIC HEAT	0 VA	0.00%	0 VA	
KITCHEN	0 VA	0.00%	0 VA	
MISCELLANEOUS	0 VA	0.00%	0 VA	

PANELBOARD SCHEDULE R2										LOCATION: MECH 259		FED FROM: TR2					
225 AMP MCB										208Y/120V		3 PH 4 W		MOUNT: SURFACE		PANEL ASSEMBLY RATED (KAIC): 22 KAIC	
CKT	BRKR	POLE	LOAD			A	B	C	LOAD			POLE	BRKR	CKT			
1	20 A	1	RECEPTACLES			1.4	1.6		RECEPTACLES CORRIDOR 260C			1	20 A	2			
3	20 A	1	RECEPTACLES CONF 251				1.4	0.7	RECEPTACLES COURT ROOM A...			1	20 A	4			
5	20 A	1	RECEPTACLES COURT ROOM A...					0.7	1.3	RECEPTACLES COURT ROOM A...			1	20 A	6		
7	20 A	1	RECEPTACLES COURT ROOM A...			0.2	0.9		RECEPTACLES VESTIBULE 239			1	20 A	8			
9	20 A	1	RECEPTACLES WOMENS TLT 228				1.3	0.0	SHADE CONTROL RM 206A			2	20 A	10			
11	20 A	2	SHADE CONTROL RM 246					0.0	0.0	STORAGE 247			2	20 A	12		
13	20 A	1	STORAGE 247			0.0	0.9		RECEPTACLES STAIR 2 S202			1	20 A	14			
15	20 A	1	RECEPTACLES SECURITY...				1.3	1.8	RECEPTACLES CONF 229			1	20 A	16			
17	20 A	1	RECEPTACLES EVID 245					0.7	0.7	RECEPTACLES EVID 245			1	20 A	18		
19	20 A	1	RECEPTACLES CORRIDOR 219			1.1	0.7		RECEPTACLES COURT ROOM B...			1	20 A	20			
21	20 A	1	RECEPTACLES COURT ROOM B...				0.7	1.1	RECEPTACLES COURT ROOM B...			1	20 A	22			
23	20 A	1	RECEPTACLES COURT ROOM B...														

PANELBOARD SCHEDULE XL1										LOCATION	ELECTRICAL ROOM 125	FED FROM:	MDP			
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT	480Y/277V	3 PH 4 W	MOUNT	SURFACE	PANEL ASSEMBLY RATED (KAIC):	65 KAIC
1	20 A	1	INTERIOR LIGHTING - FIRST	0.9	0.6		ELEVATOR 1 CAB LIGHTS	1	20 A	2						
3	20 A	1	INTERIOR LIGHTING - SECOND		0.9	0.6	ELEVATOR 2 CAB LIGHTS	1	20 A	4						
5	20 A	1	INTERIOR LIGHTING CORRIDOR			0.7	0.6	ELEVATOR 3 CAB LIGHTS	1	20 A	6					
7	20 A	1	EXTERIOR LIGHTING	0.3	0.0			SPARE	1	20 A	8					
9	--	--	SPACE ONLY		0.0	0.0		SPACE ONLY	--	--	10					
11	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--	--	12					
				2 kVA	2 kVA	1 kVA					6 A	6 A	5 A			

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.15 DED. NEUTRAL.
 (GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8 DED. NEUTRAL.
 (L) = PROVIDE LOCKOUT BREAKER TO PREVENT UNAUTHORIZED SWITCHING.
 (LO) = ROUTE TO LOAD VIA LIGHTING CONTACTOR, REF DETAIL ON DWG E4.X.
 (ML) = PROVIDE BREAKER WITH MAINTENANCE LOCKOUT, LOCKABLE OFF.

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	2454 VA	125.00%	3068 VA	Total Conn. Load: 4.5 kVA Total Est. Demand: 5.2 kVA Total Est. Current: 5 A
EXTERIOR LIGHTING	270 VA	125.00%	338 VA	
RECEPTACLES	0 VA	0.00%	0 VA	
AC / HEAT PUMP	0 VA	0.00%	0 VA	
ELECTRIC HEAT	0 VA	0.00%	0 VA	
KITCHEN	0 VA	0.00%	0 VA	
MISCELLANEOUS	0 VA	0.00%	0 VA	

PANELBOARD SCHEDULE ER1										LOCATION	ELECTRICAL ROOM 125	FED FROM:	TER1			
CKT	BRKR	POLE	LOAD	A	B	C	LOAD	POLE	BRKR	CKT	208Y/120V	3 PH 4 W	MOUNT	SURFACE	PANEL ASSEMBLY RATED (KAIC):	22 KAIC
1	20 A	1	FIRE / SMOKE DAMPERS FIRST	0.2	0.2		RECEPTACLES DEPUTY 122	1	20 A	2						
3	20 A	1	FIRE / SMOKE DAMPERS		0.2	1.0	ACCESS CONTROL	1	20 A	4						
5	20 A	1	FIRE / SMOKE DAMPERS THIRD			0.2	1.5	ACCESS CONTROL CORRIDOR	1	20 A	6					
7	20 A	1	ACCESS CONTROL STAFF VES.	1.5	0.7			RECEPTACLES SEC ELEC 112B	1	20 A	8					
9	20 A	1	ACCESS CONTROL CORRIDOR		1.0	1.0		ACCESS CONTROL FILE	1	20 A	10					
11	20 A	1	RECEPTACLES ELECTRICAL				0.5	0.7	RECEPTACLES DATA 228	1	20 A	12				
13	20 A	1	RECEPTACLES SEC ELEC 112B	0.7	1.0			ACCESS CONTROL	1	20 A	14					
15	20 A	1	ACCESS CONTROL ASST. 147		1.0	1.5		ACCESS CONTROL	1	20 A	16					
17	20 A	1	RECEPTACLES DATA 228				0.7	1.0	ACCESS CONTROL SECURITY	1	20 A	18				
19	20 A	1	ACCESS CONTROL	1.5	0.7			RECEPTACLES COURT	1	20 A	20					
21	20 A	1	ACCESS CONTROL			1.5	1.0	ACCESS CONTROL CORRIDOR	1	20 A	22					
23	20 A	1	RECEPTACLES SEC ELEC 244				0.7	0.5	ACCESS CONTROL	1	20 A	24				
25	20 A	1	ACCESS CONTROL	0.5	0.7			RECEPTACLES COURT	1	20 A	26					
27	20 A	1	ACCESS CONTROL		0.5	0.0		SPARE	1	20 A	28					
29	20 A	1	ACCESS CONTROL COURT				1.0	0.0	SPARE	1	20 A	30				
31	20 A	1	SPARE	0.0	0.0			SPARE	1	20 A	32					
33	20 A	1	SPARE		0.0	0.0		SPARE	1	20 A	34					
35	20 A	1	SPARE				0.0	0.0	SPARE	1	20 A	36				
37	--	--	SPACE ONLY	0.0	0.0			SPACE ONLY	--	--	38					
39	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--	--	40					
41	--	--	SPACE ONLY			0.0	0.0	SPACE ONLY	--	--	42					
				8 kVA	9 kVA	7 kVA					65 A	74 A	57 A			

(GE) = PROVIDE GFCI BREAKER FOR EQUIPMENT, 6-50mA PER NEC 427.15 DED. NEUTRAL.
 (GP) = PROVIDE GFCI BREAKER FOR PERSONNEL, 4-6mA PER NEC 210.8 DED. NEUTRAL.
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Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
INTERIOR LIGHTING	0 VA	0.00%	0 VA	Total Conn. Load: 23.3 kVA Total Est. Demand: 18.2 kVA Total Est. Current: 65 A
EXTERIOR LIGHTING	0 VA	0.00%	0 VA	
RECEPTACLES	5760 VA	100.00%	5760 VA	
AC / HEAT PUMP	0 VA	0.00%	0 VA	
ELECTRIC HEAT	0 VA	0.00%	0 VA	
KITCHEN	0 VA	0.00%	0 VA	
MISCELLANEOUS	17500 VA	70.86%	12400 VA	



PROJECT NO:	DATE:
571990	MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION