2/10/2023 4:04:58 PM
BIM 360://3-21037 SLE - ASC Expansion - Revit 2021/MEP21_21006783.00_SLH-East ASC Addition_C.rvt

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	DESCRIPTION:
GB	GB	GROUND BUS
E E	ECONN	ELECTRICAL CONNECTION
J J	JB	JUNCTION BOX
	FB-# or PT-#	FLOOR BOX or POKE THROUGH
C# ▼	TECH-C#	TECHNOLOGY OUTLET (WALL) # - INDICATED NUMBER OF JACKS
W ▼	TECH-W	TECHNOLOGY OUTLET WALL PHONE (WALL)
C#-TV ▼	TECH-TV	TECHNOLOGY OUTLET FOR TV (WALL) # - INDICATES NUMBER OF JACKS
C# ▼		TECHNOLOGY OUTLET (FLOOR) # - INDICATES NUMBER OF JACKS
AV ▼		TECHNOLOGY OUTLET FOR AUDIO VISUAL SYSTEM (FLOOR)
	WM-#	MULTI OUTLET SYSTEM
PB	PB	MOMENTARY PUSHBUTTON OPERATOR
	PANEL '###'	PANELBOARD - RECESS MOUNT
	PANEL '###'	PANELBOARD - SURFACE MOUNT
	MX-#/MS-# /CB-#/CS-#	MANUAL SWITCH / STARTER / COMBINATION STARTER/ CIRCUIT BREAKER. REFER TO DISC/STA SCHEDULE
	IPP-#	ISOLATED POWER PANEL
MG	MG	MASTER GROUND STATION MODULE
PM	PM	OPERATING ROOM POWER MODULE
RIM	RIM	REMOTE LINE ISOLATION MONITOR
RAS	RAS	REMOTE ANNUNCIATOR STATION
⊠	TR-#/DTR-#	TRANSFORMER
	CB-#	CIRCUIT BREAKER - SURFACE MOUNTED. REFER TO DISC/STA SCHEDULE
	CB-#	CIRCUIT BREAKER - FLUSH MOUNTED. REFER TO DISC/STA SCHEDULE
	DS-#/FDS-#/DSS-#	DISCONNECT. REFER TO DISC/STA SCHEDULE
	MD-SD-#	MOBILE DIAGNOSTICS SERVICE DISCONNECT. REFER TO DISC/STA SCHEDULE
		BUSSWAY RECEPTACLE UNIT. REFER TO DISC/STA SCHEDULE
GANN	GANN-#	GENERATOR ANNUNCIATOR PANEL
DC		DOOR CONTACT SWITCH
CR1		CREDENTIAL READER

ELECTRICAL EQUIPMENT TAGS

TAG:	DESCRIPTION:
ATS-#	AUTOMATIC TRANSFER SWITCH
CT-#	CABLE TRAY
DP-#	DISTRIBUTION PANEL
FAA-#	FIRE ALARM - ANNUNCIATOR
HT-#	HEAT TAPE
MTS-#	MANUAL TRANSFER SWITCH, REFER TO TRANSFER SWITCH SCHEDULE
NEP-#	FIRE ALARM - EXTENDER PANEL
SG-#	SWITCHGEAR
VFD-#	VARIABLE FREQUENCY DRIVE - REFER TO VFD SCHEDULE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	DESCRIPTION:
S	SW-1P	SWITCH - SINGLE POLE
S_T	SW-1P-ADJ	WATTSTOPPER DIGITAL TIME SWITCH: TS-400
S_2	SW-2P	SWITCH - TWO POLE
S_3	SW-3W	SWITCH - THREE WAY
S_4	SW-4W	SWITCH - FOUR WAY
S_O	SW-OC-P-O	WATTSTOPPER DUAL TECHNOLOGY LINE VOLTAGE WALL OCCUPANCY SENSOR: DSW-301
D_6	SW-D-6	DIMMER - 600 WATT
D_D	SW-D-LED	DIMMER - LED
D_{0-10V}	SW-D-0-10V	WATTSTOPPER 0-10V WALL DIMMER: RADIANT 0-10V
$D3_6$	SW-D3-6	DIMMER - 600 WATT - 3 WAY
D_{D3}	SW-D3-LED	DIMMER - LED - 3 WAY
D_O	SW-OD	WATTSTOPPER DUAL TECHNOLOGY LINE VOLTAGE WALL OCCUPANCY SENSOR DSW-311
LS D	SW-LS-D	DAYLIGHT LEVEL SENSOR - 1 ZONE DIMMING
PC	SW-LS-PC	WATTSTOPPER DIGITAL LIGHTING MANAGEMENT DUAL TECHNOLOGY PHOTOCELL: LMLS-500
OC D	SW-OC-D	WATTSTOPPER DIGITAL LIGHTING MANAGEMENT DUAL TECHNOLOGY OCCUPANCY SENSOR: LMDC-100
OC D	SW-OC-D-W	OCCUPANCY SENSOR - DUAL TECHNOLOGY - WALL MOUNTED
OC D	SW-OC-D	WATTSTOPPER DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR: LMDC-100
R D#		WATTSTOPPER DIGITAL LIGHTING MANAGEMENT ROOM CONTROLLER. # - REFERS TO NUMBER OF RELAYS D - REFERS TO 0-10V DIMMING CONTROLLER
#B ZZ	SW-DCS	WATTSTOPPER DIGITAL LIGHTING MANAGEMENT CONTROL STATION KEYPAD WITH PROGRAMMABLE FUNCTION BUTTONS . # INDICATES NUMBER OF SWITCHES. ZZ INDICATES TYPE: SX: BUTTON PAD - X NUMBER OF BUTTONS. BLANK: 1 BUTTON D1: ONE BUTTON DIMMING ROCKER SWITCH.
R BMS		WATTSTOPPER DIGITAL LIGHTING MANAGEMENT INPUT/OUTPUT INTERFACE FOR BMS CONTROL OF LIGHTING. PROVIDE ALL LOW VOLTAGE CABLING AS REQUIRED: LMIN-104
R DMX		2 INSIGHT DMX DISTRIBUTION KIT FOR CONTROL OF DMX LIGHTING. PROVIDE ALL DMX CABLING AS REQUIRED: RSN-OPTO-8
ALCR		AUTOMATIC LOAD CONTROL RELAY - WATT STOPPER EMERGENCY LIGHTING CONTROL UNIT. UPON LOSS OF NORMAL POWER, EMERGENCY LIGHTING SHALL BE BROUGHT TO FULL BRIGHTNESS REGARDLESS OF SWITCH POSITION. PROVIDE ALL LOW VOLTAGE CABLING AS REQUIRED: ELCU-200

ELECTRICAL SYMBOL LIST

SYMBOL:	DESCRIPTION:
▭	LINEAR LUMINAIRES
□	TROFFER
	WALL SCONCE LUMINAIRE
○	DOWNLIGHT LUMINAIRE
	AIMABLE OR WALL WASH LUMINAIRE
	INDUSTRIAL LUMINAIRE
	WALL BRACKET LUMINAIRE
	POLE MOUNTED LUMINAIRE
⊗	SINGLE FACE EXIT SIGN
⊗	DOUBLE FACE EXIT SIGN
	WALL/CEILING EMERGENCY EXIT SIGN
	EMERGENCY UNIT

LUMINAIRE SYMBOL KEY

SYMBOL:	DESCRIPTION:
□ ○	NORMAL BRANCH LUMINAIRE
▨ ⊙	CRITICAL BRANCH LUMINAIRE
◩ ⊘	EMERGENCY LIFE SAFETY BRANCH LUMINAIRE

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	DESCRIPTION:
	REC-DUP	DUPLEX RECEPTACLE, 125V
	REC-DUP-GFI	DUPLEX GFI RECEPTACLE, 125V
G	REC-DUP-GFI-R	GROUND FAULT DEVICE
W	REC-DUP-WP	DUPLEX GFI WEATHERPROOF RECEPTACLE 125V
	REC-ISO	ISOLATED GROUND RECEPTACLE, 125V
S	REC-ISO-SUR	ISOLATED GROUND RECEPTACLE WITH SURGE SUPPRESSION, 125V
S	REC-ISO-SUR-QUAD	ISOLATED GROUND QUAD RECEPTACLE WITH SURGE SUPPRESSION, 125V
U	REC-USB	DUPLEX RECEPTACLE, USB CHARGING
	REC-SIM-520R	SIMPLEX RECEPTACLE, 125V
	REC-SIM-530R	RECEPTACLE, 125V
	REC-SIM-550R	RECEPTACLE 125V, 50A, 125V
	REC-SIM-620R	RECEPTACLE, 6-20R, 250V
	REC-SIM-630R	RECEPTACLE, 6-30R, 250V
	REC-SIM-650R	RECEPTACLE, 6-50R, 250V
	REC-SIM-720R	RECEPTACLE, 7-20R, 277V
	REC-SIM-730R	RECEPTACLE, 7-30R, 277V
	REC-SIM-750R	RECEPTACLE, 7-50R, 277V
	REC-SIM-1420R	RECEPTACLE, 14-20R, 125/250V
	REC-SIM-1430R	RECEPTACLE, 14-30R, 125/250V
	REC-SIM-1450R	RECEPTACLE, 14-50R, 125/250V
	REC-SIM-1460R	RECEPTACLE, 14-60R, 125/250V
	REC-SIM-1520R	RECEPTACLE, 15-20R, 250V, 3PH
	REC-SIM-1530R	RECEPTACLE, 15-30R, 250V, 3PH
	REC-SIM-1550R	RECEPTACLE, 15-50R, 250V, 3PH
	REC-SIM-1560R	RECEPTACLE, 15-60R, 250V, 3PH
	REC-SIM-L520R	RECEPTACLE, LOCKING TYPE, L5-20R, 125V
	REC-SIM-L530R	RECEPTACLE, LOCKING TYPE, L5-30R, 125V
	REC-SIM-L620R	RECEPTACLE, LOCKING L6-20R, 250V
	REC-SIM-L630R	RECEPTACLE, LOCKING L6-30R, 250V
	REC-SIM-L720R	RECEPTACLE, LOCKING L7-20R, 277V
	REC-SIM-L730R	RECEPTACLE, LOCKING L7-30R, 277V
	REC-SIM-L1420R	RECEPTACLE, LOCKING L14-20R, 125/250V
	REC-SIM-L1430R	RECEPTACLE, LOCKING L14-30R, 125/250V
	REC-SIM-L1520R	RECEPTACLE, LOCKING L15-20R, 250V, 3PH
	REC-SIM-L1530R	RECEPTACLE, LOCKING L15-30R, 250V, 3PH
	REC-SIM-L1620R	RECEPTACLE, L16-20R, 480V, 3PH
	REC-SIM-L1630R	RECEPTACLE, L16-30R, 480V, 3PH
	REC-SIM-L2120R	RECEPTACLE, LOCKING L21-20R, 120/208V, 3PH
	REC-SIM-L2130R	RECEPTACLE, LOCKING L21-30R, 120/208V, 3PH
	REC-TAMP	DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	REC-TAMP-GFI	GFI DUPLEX RECEPTACLE, TAMPER RESISTANT, 125V
	REC-TAMP-QUAD	QUAD RECEPTACLE, TAMPER RESISTANT, 125V
	REC-QUAD	QUAD RECEPTACLE, 125V
	REC-QUAD-GFI	QUAD GFI RECEPTACLE, 125V
U	REC-QUAD-USB	QUAD RECEPTACLE, USB 125V
W	REC-QUAD-WP	QUAD GFI WEATHERPROOF RECEPTACLE, 125V
	PP#	POWER POLE

ELECTRICAL INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN.
2. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL PROVIDED. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS. BALANCE THE LOAD ON PANEL AS EVENLY AS POSSIBLE BETWEEN EACH PHASE.
3. LIFE SAFETY, CRITICAL, AND EQUIPMENT BRANCH WIRING FOR FEEDERS AND BRANCH CIRCUITS SHALL BE ROUTED IN SEPARATE RACEWAY, JUNCTION BOXES, PULL BOXES, AND CABINETS. WIRING FOR EACH BRANCH SHALL BE INDEPENDENT FROM OTHER BRANCHES, INCLUDING THE NORMAL BRANCH.
4. FLUSH MOUNT ALL LIGHTING CONTROL DEVICES AT +42" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. DEVICES MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
5. FLUSH MOUNT ALL DUPLEX RECEPTACLES AND TECHNOLOGY OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. RECEPTACLES AND OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.
6. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
7. CONNECTION FOR ELECTRIC WATER COOLERS (EWC) SHALL BE A JUNCTION BOX CONCEALED BEHIND WATER COOLER ACCESS PLATE OR BE A GFI RECEPTACLE LOCATED DIRECTLY BELOW AND CENTERED ON EWC. CONTRACTOR SHALL VERIFY TYPE OF EWC TO BE INSTALLED.
8. MOUNT ALL FIRE ALARM PULL STATIONS AT +42" FROM FLOOR (CENTERLINE DIMENSION) EXCEPT WHERE OTHERWISE NOTED.
9. INSTALL ALL WALL MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR OR 6" BELOW THE CEILING, WHICHEVER IS LOWER, EXCEPT WHERE OTHERWISE NOTED. HEIGHT SHALL BE MEASURED TO THE TOP OF THE DEVICE.
10. CONTRACTOR SHALL COORDINATE THE LOCATION OF ALL CEILING MOUNTED DEVICES AND EQUIPMENT WITH LUMINAIRES, SPRINKLER, AND CEILING DIFFUSERS. CENTER ALL DEVICES IN CEILING TILE PATTERN. SMOKE DETECTORS AND OCCUPANCY/VACANCY SENSORS SHALL BE LOCATED NO CLOSER THAN 3 FEET TO AN AIR SUPPLY DIFFUSER OR RETURN GRILLE.
11. CONTRACTOR SHALL VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL ELECTRICAL INSTALLATION, THIS CONTRACTOR SHALL ADJUST RECEPTACLES, OUTLETS, OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
12. ELECTRICAL AND TECHNOLOGY EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL AND TELECOMMUNICATIONS EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
13. ALL WELDING SHALL BE ACCORDING TO AMERICAN WELDING SOCIETY STANDARDS. CONTRACTOR SHALL FURNISH TO THE ARCHITECT/ENGINEER CERTIFICATES QUALIFYING EACH WELDER, PRIOR TO START OF WORK. THE ARCHITECT/ENGINEER RESERVES THE RIGHT TO REQUIRE QUALIFYING DEMONSTRATION, AT THE CONTRACTOR'S EXPENSE, OF ANY WELDERS ASSIGNED TO THE JOB.
14. CONTRACTOR SHALL REMOVE AND REINSTALL ALL CEILING TILES AS REQUIRED FOR THE EXECUTION OF ELECTRICAL WORK. CONTRACTOR SHALL REPLACE CEILING TILES WITH IDENTICAL MATERIAL WHERE DAMAGED BY THIS CONTRACTOR.
15. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL, TECHNOLOGY AUDIO/VISUAL, AND OTHER ELECTRICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
16. ELECTRICAL INDENTIFICATION. REFER TO SPECIFICATIONS FOR COLOR/LABEL REQUIREMENTS FOR CONDUIT, BOX, CABLE/WIRE, AND EQUIPMENT.

ELECTRICAL LIGHTING DEMOLITION NOTES:

1. THE ELECTRICAL LIGHTING DRAWINGS INDICATE EXISTING ELECTRICAL ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
2. EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.
3. BALLASTS MANUFACTURED PRIOR TO 1980 CONTAIN PCBs AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD AND IN ACCORDANCE WITH SPECIFICATIONS.
4. HID AND FLUORESCENT LAMPS CONTAIN MERCURY AND SHALL BE DISPOSED OF BY A FEDERAL OR STATE E.P.A. APPROVED METHOD.
5. REUSE EXISTING CONDUIT, CIRCUITS AND LIGHTING CONTROL WHERE POSSIBLE. PROVIDE NEW CONDUIT AND WIRE WHERE SHOWN, MISSING OR REQUIRED TO INSTALL THE NEW LIGHT FIXTURES.
6. VERIFY MANUFACTURERS INSTALLATION GUIDELINES WITH EXISTING FIELD CONDITIONS PRIOR TO BIDDING AND ORDERING NEW LIGHT FIXTURES AND INSTALLATION MATERIAL.
7. MATCH EXISTING PAINTED SURFACES. WHERE REPLACED LUMINAIRE DOES NOT FULLY COVER EXISTING JUNCTION BOX OR PAINTED SURFACE. PROVIDE CUSTOM BACK PLATE WHERE NECESSARY TO COVER ANY FIELD CONDITIONS THAT WOULD ALLOW INTRUSION OF WATER AND CAULK WHERE NECESSARY.
8. COORDINATE EXISTING LIGHTING CONTROL AS NECESSARY TO MEET EXISTING CONTROL SEQUENCES. VERIFY WITH OWNER ANY CHANGES.

ELECTRICAL RENOVATION NOTES:

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, LIGHTING, POWER, AND SYSTEMS.

1. EXISTING CONDITIONS ARE SHOWN BASED ON INFORMATION OBTAINED FROM FIELD SURVEYS, EXISTING BUILDING DOCUMENTS, AND STAFF. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS BEFORE PROCEEDING.
2. NOT ALL EXISTING EQUIPMENT, LUMINAIRES, AND CONDUIT ARE SHOWN. VERIFY EXISTING CONDITIONS AND REPORT ANY CONFLICTS WITH NEW WORK BEFORE STARTING WORK.
3. FIELD VERIFY THE AVAILABLE CLEARANCES FOR CONDUITS BEFORE FABRICATION. RISES AND DROPS MAY BE NECESSARY BECAUSE OF EXISTING FIELD CONDITIONS.
4. EACH CONTRACTOR SHALL FIELD VERIFY ACCESSIBILITY TO THE AREA OF THEIR WORK AND SHALL NOTIFY THE GENERAL CONTRACTOR PRIOR TO BIDDING IF OTHER UTILITIES ARE REQUIRED TO BE REMOVED OR RELOCATED TO ALLOW ACCESS TO THEIR AREA OF WORK.
5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR CUTTING, REMOVAL AND PATCHING OF WALLS AND FLOORS ASSOCIATED WITH WORK BY ALL CONTRACTORS. CONTRACTORS SHALL NOTIFY THE GC OF AFFECTED AREAS PRIOR TO BIDDING.
6. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND REPLACEMENT OF CEILINGS, CEILING TILES, AND CEILING GRIDS ASSOCIATED WITH AREAS OF WORK BY ALL CONTRACTORS. NOTIFY THE GENERAL CONTRACTOR OF AFFECTED AREAS PRIOR TO BIDDING.
7. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT CONFLICT WITH NEW EQUIPMENT, PIPING, OR DUCTWORK TO BE INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT, CONDUIT, OR DUCTWORK IN SUCH A FASHION THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS, OR REWORK EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PIPING, OR DUCTWORK.
8. COORDINATE ALL LUMINAIRE LOCATIONS WITH STRUCTURAL TRUSS AND BEAMS PRIOR TO ROUGH-IN.
9. FULLY SHADED FIXTURES INDICATE EMERGENCY LUMINAIRES.
10. WHERE LUMINAIRE QUANTITIES OR LAYOUT DIFFER BETWEEN ELECTRICAL LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS, HIGHER QUANTITY SHALL TAKE PRECEDENCE. CONTRACTOR SHALL CONFIRM QUANTITY AND LAYOUT WITH DESIGN TEAM.

TYPICAL REMODEL:

1. ALL LUMINAIRES SHOWN TO BE DEMOLISHED SHALL BE DISPOSED OF IF NOT REQUIRED BY OWNER FOR ATTIC STOCK. CONFIRM WITH OWNER PRIOR TO DISPOSAL IF THE LAMPS, LENS OR SUBSET OF LUMINAIRES SHOULD BE TURNED OVER FOR ATTIC STOCK.
2. REMOVE EXISTING LUMINAIRES AND WALL SWITCHES WHERE SHOWN. LOCATE AND IDENTIFY ELECTRICAL CIRCUIT SERVING REMOVED LUMINAIRES FOR REUSE WITH NEW DEVICES.
3. COORDINATE HOURS OF ACCESS WITH OWNER.
4. REMOVE EXISTING LUMINAIRE AND PREPARE FOR INSTALLATION OF NEW LUMINAIRE IN SAME LOCATION OR NEW LOCATION. REFER TO E201 FOR NEW WORK.
5. MATCH EXISTING FACEPLATE FINISH AND TYPE FOR ALL LOCATIONS WHERE NEW WALL CONTROL DEVICE IS BEING INSTALLED.
6. WHERE WALL SWITCH DEVICE IS REMOVED AND NOT REPLACED. PROVIDE WITH BLANK SWITCH PLATE.
7. EXPOSED 3/4" CONDUIT TO NEW OR EXISTING FIXTURES OR DEVICES IS ACCEPTABLE AS LONG AS IT IS INSTALLED IN A NEAT AND ORDERLY METHOD AND MEETS ADOPTED CODES. COORDINATE NEW RUNS WITH OWNER PRIOR TO INSTALLATIONS.
8. REUSE EXISTING CONDUIT, WIRE, CONTROL AND JUNCTION BOXES. PROVIDE NEW IF REQUIRED TO INSTALL THE NEW LUMINAIRE.
9. PROVIDE (1) UNSWITCHED LEG FROM PANEL SERVING THE EMERGENCY FIXTURES TO THE SENSOR LEG SERVING THE NEW BATTERY BACK UP IN NEW LUMINAIRES.
10. CONNECT NEW LUMINAIRES TO CIRCUIT THAT SERVED PREVIOUSLY REMOVED LUMINAIRE USING THE SAME SIZE WIRE AND CONDUIT. EXTEND CONDUIT AND CONDUCTORS AS REQUIRED TO MAKE CONNECTION. CONDUIT IN GOOD CONDITION SHALL BE REUSED IN PLACE.
11. NEW OCCUPANCY SENSORS TO BE INSTALLED IN A MANUAL ON/AUTO OFF' CONFIGURATION.
12. REPLACE CEILING TILES WITH LIKE IN AREAS WITH A REDUCTION IN LUMINAIRE. REUSE EXISTING CEILING TILES WHERE APPLICABLE. PROVIDE NEW TO MATCH EXISTING IF REQUIRED. ADJUST AND MOVE AIR RETURN GRILLS AS REQUIRED TO COORDINATE WITH REVISED LUMINAIRE LAYOUT IN AREAS WITH A LAYIN CEILING.
13. COORDINATE LOCATIONS OF NEW LUMINAIRES WITH EXISTING DUCT, PIPING, STRUCTURAL AND CEILING MOUNTED DEVICES.

TYPICAL NEW CONSTRUCTION:

1. HALF SHADED FIXTURES INDICATE LIFE SAFETY LUMINAIRES FOR EMEGERGNECY LIGHTING CONNECTED TO PANEL AS NOTED.
2. FULLY SHADED FIXTURES INDICATE EMERGENCY LUMINAIRES THAT ARE TO BE CONNECTED VIA AN EMERGENCY TRANSFER DEVICE (ETD) TO TURN LIGHTS ON UPON LOSS OF POWER. THE THIRD LEG OF THE ETD IS CONNECTED TO THE EMERGENCY LIGHTING PANEL.
3. SITE HAS UNDERGROUND UTILITIES, STEAM, WATER, ELECTRIC AND VAULTS. CONTRACTOR SHALL FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING ALL LIGHT POLES. HAND EXCAVATE IF NECESSARY, TO ASCERTAIN EXACT LOCATION OF UNDERGROUND UTILITIES PRIOR TO INSTALLING 'ANY' POLE.
4. WHERE LUMINAIRE QUANTITIES OR LAYOUT DIFFER BETWEEN ELECTRICAL LIGHTING PLANS AND ARCHITECTURAL REFLECTED CEILING PLANS, HIGHER QUANTITY SHALL TAKE PRECEDENCE. CONTRACTOR SHALL CONFIRM QUANTITY AND LAYOUT WITH DESIGN TEAM.
5. #B PUSH BUTTON REFERS TO SCENE QUANTITY. COORDINATE NUMBER OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER. CONTROL SHALL BE CAPABLE OF DIMMING UP/DOWN AND SWITCHING ON/OFF FOR MULTIPLE ZONES AS INDICATED AND PER LIGHTING SEQUENCE OF OPERATIONS.
6. Z## INDICATES ZONING AND REFLECTS A LIGHTING CONTROL GROUP. PROVIDE RELAYS AS REQUIRED TO ALLOW LUMINAIRES WITHIN THE DEFINED ZONE TO FUNCTION TOGETHER DURING NORMAL POWER.

ELECTRICAL GENERAL NOTES:

1. **##-###** INDICATES ELECTRICAL EQUIPMENT DEFINED IN ELECTRICAL SCHEDULES OR SPECIFICATION. REFER TO DRAWINGS CONTAINING ELECTRICAL SCHEDULES. PERMANENT NAMEPLATE SHALL MATCH FINAL EQUIPMENT NOMENCLATURE, NOT ELECTRICAL EQUIPMENT TAG NAME, REFER TO SPECIFICATIONS.
2. **{L###}** INDICATES THE LIGHTING SEQUENCE OF OPERATION FOR THE SPACE. REFER TO THE LIGHTING SEQUENCE OF OPERATION MATRIX ON SHEET E600.
3. ALL LIFE SAFETY LUMINAIRES ARE SWITCHED/CONTROLLED DURING NORMAL OPERATION AND OPERATES FROM EMERGENCY CIRCUIT UPON LOSS OF POWER.
4. SHADED LUMINAIRE OR DEVICE INDICATES LUMINAIRE OR DEVICE IS CONNECTED TO AN EMERGENCY CIRCUIT.
5. REFER TO SHEET E600 FOR LUMINAIRE SCHEDULE.
6. { Z###} INDICATES THE LIGHTING ZONES FOR THE SPACE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE. REFER TO SHEET E600.
7. { B#} PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF SWITCHING ON/OFF AND AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS {L##}. COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER. REFER TO SHEET E600.
8. VACANCY/OCCUPANCY SENSOR LAYOUT: SENSORS ARE SHOWN ON THE PLANS FOR DESIGN INTENT AND MAY NOT REPRESENT EVERY DEVICE. PROVIDE MANUFACTURER SPECIFIC FLOOR PLAN LAYOUTS SHOWING LOCATION, ORIENTATION, AND COVERAGE AREA OF EACH CONTROL DEVICE, SENSOR, AND CONTROLLER/INTERFACE. AREAS REQUIRING MULTIPLE SENSOR DEVICES FOR APPROPRIATE COVERAGE, SUBMIT SPECIFIC MANUFACTURER-APPROVED SENSOR LAYOUT AS AN OVERLAY DIRECTLY ON THE PROJECT DRAWINGS, EITHER IN PRINT OR APPROVED ELECTRONIC FORM.
9. CONTRACTOR SHALL REFER TO SAINT LUKE'S STANDARD SPECIFICATIONS FOR ALL SPECIFICATION REFRENCES.

LUMINAIRE KEY:

LUMINAIRE
F1 = FIXTURE TAG
1 = CIRCUIT NUMBER
a = SWITCH DESIGNATION
NL = SUBSCRIPT (IF APPLICABLE)
Z = ZONE DESIGNATION

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: F1 / 1 / a / NL

DEVICE KEY:

DEVICE
A = MOUNTING (IF APPLICABLE)
1 = CIRCUIT NUMBER

*IF LABEL IS ORIENTED HORIZONTALLY A SLASH WILL SEPARATE THIS INFORMATION. EX: A / 1

ELECTRICAL MOUNTING SUBSCRIPT KEY:

A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
C	MOUNT AT CEILING
H	MOUNT ORIENTED HORIZONTALLY
L	MOUNT IN CASEWORK
M	MOUNT IN MODULAR FURNITURE
R	MOUNT IN SURFACE RACEWAY
EWC	ELECTRIC WATER COOLER

ELECTRICAL ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
GFI	GROUND FAULT INTERRUPTER
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
SV	SOLENOID VALVE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED

BRUCE ELDON HART
NUMBER E-22817
1/16/2023
Bruce E. Hart - Engineer
License - Missouri #E-22817

ACI
BOLAND
ARCHITECTS

ACI/Boland, Inc.
Kansas City | St. Louis

1710 Wyandotte
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T: 816.763.9600

Licensee's Certificate of Authority Number:
Missouri: #000958

CONSTRUCTION DOCUMENTS

Saint Luke's
EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	01/16/2023
Job Number	3-21037
Drawn By	ZMB
Checked By	PLR

Revision

Number	Date	Description
2	2/10/23	Addendum 2

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REF. SCALE IN INCHES
PROJECT #21006783.00

E000

ELECTRICAL COVERSHEET

SYSTEM INPUTS / SEQUENCE OF OPERATION		PANEL/ANNUNCIATOR ALARM INDICATION	PANEL/ANNUNCIATOR SUPERVISORY INDICATION	PANEL/ANNUNCIATOR TROUBLE INDICATION	AUDIBLE ALARMS SEQUENCE	VISUAL ALARMS SEQUENCE	CM SMOKE DAMPER CONTROL SEQUENCE	CM AHU & MECHANICAL FAN SHUTDOWN SEQUENCE	CM ELEVATOR RECALL SEQUENCE	CM ELEVATOR SHUT DOWN SEQUENCE	CM FIREFIGHTER'S CAB VISUAL ALARM SEQUENCE	CM ELEVATOR HOISTWAY DAMPER SEQUENCE	CM DOOR HOLDER SEQUENCE	CM POWER-OPERATED FIRE DOORS	CM COILED FIRE DOOR RELEASE SEQUENCE	NURSE STATION ANNUNCIATION SEQUENCE	CM SOUND MASKING/ PAGING SYSTEMS SHUTDOWN SEQUENCE	CM ACCESS CONTROL OVERRIDE SEQUENCE
MANUAL PULL STATION	FT F	X			X	X	?	?					?	?			X	?
SMOKE DETECTOR	$S_{\#/\_}$ ⊢$S_{\#/\_}$	X			X	X	?	?					?	?			X	X
SMOKE DETECTOR FOR HVAC CONTROL	$S_{\#/\_}$ ⊢$S_{\#/\_}$	?	X	?	?	?	X	X					?	?			?	?
SMOKE DETECTOR FOR SMOKE DAMPER CONTROL	FSD	?	X	?	?	?	X	?					?	?			?	?
SMOKE DETECTORS IN ELEVATOR LOBBIES	S_E ⊢S_E	X			X	X	?	?	X			X	?	?			X	?
SMOKE DETECTORS IN ELEVATOR MACHINE ROOM & HOISTWAY	S_E ⊢S_E	X			X	X	?	?	X		X	X	?	?			X	?
HEAT DETECTOR NEAR ELEVATOR SPRINKLERS	H_E ⊢H_E	X			X	X	?	?		X							X	?
ELEVATOR SHUNT TRIP CIRCUIT POWER FAILURE	MM (1)		X															
ELEVATOR HOISTWAY DAMPER SWITCH	MM HD HDS		X									X						
ELEVATOR HOISTWAY DAMPER POWER FAILURE	MM		X									X						
SMOKE DETECTOR AT DOOR	CM_{DH} DH	X			X	X	?	?					X	X			X	?
SMOKE DETECTOR AT COILING FIRE DOOR	CM_{DH}	X			X	X	?	?					?	?	X		X	?
SMOKE DETECTOR IN ATRIUM	S_A ⊢S_A	X			X	X	?	?					?	?			X	?
SMOKE DETECTOR IN STAIRWELL OR STAIR VESTIBULE	S_{SW} ⊢S_{SW}	X			X	X	?	?					?	?			X	?
STAIRWELL PRESSURIZATION CIRCUIT POWER FAILURE	MM		X															
STAIRWELL PRESSURIZATION CONTROLLER TROUBLE	MM			X														
SMOKE DETECTOR IN MEDICAL PROCEDURE ROOM	S_M ⊢S_M		X															
SMOKE DETECTOR IN PATIENT SLEEPING ROOM	$\overset{P}{S}_S$ ⊢$\overset{P}{S}_S$	X			X	X										X	X	?

① FIRE ALARM OPERATION MATRIX

NO SCALE

NOTES:

1. ALL SYSTEM EVENTS SHALL BE LOGGED, PRINTED, AND DISPLAYED ON THE ANNUNCIATOR INTERFACE, IF APPLICABLE. SEE SPECIFICATIONS FOR MORE INFORMATION AND DESCRIPTIONS OF SEQUENCES OF OPERATION.
2. PARTIAL EVACUATION OR RELOCATION OF OCCUPANTS IS THE STANDARD OPERATING PROCEDURE FOR THIS FACILITY IN THE EVENT OF AN ALARM. THEREFORE, ALL NOTIFICATION APPLIANCE CIRCUITS MUST BE INSTALLED AND PROTECTED IN ACCORDANCE WITH THE CIRCUIT SURVIVABILITY REQUIREMENTS DESCRIBED IN NFPA 72. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

KEYNOTES:

1. UTILIZE A GENERAL PURPOSE RELAY TO MONITOR POWER LOSS. CONNECT THE CONTACTS OF THE RELAY TO A FIRE ALARM MONITOR MODULE.
2. UTILIZE (3) GENERAL PURPOSE RELAYS AS SHOWN ON DRAWINGS WITH A COIL VOLTAGE THAT MATCHES THE MOTOR VOLTAGE TO MONITOR POWER LOSS. CONNECT EACH RELAY COIL TO ONE PHASE OF THE MOTOR FEEDER DOWNSTREAM OF THE DISCONNECTING MEANS, BUT AHEAD OF THE CONTROL CONTACTOR. CONNECT THE CONTACTS OF THE RELAYS IN SERIES TO A FIRE ALARM MONITOR MODULE.

ELECTRICAL SYMBOL LIST

SYMBOL:	TAG:	DESCRIPTION:
COMMON AND SEQUENCE OF OPERATION SUBSCRIPTS		SUBSCRIPTS: TYPE / PROGRAMMING A = ATRIUM CR = COMPUTER ROOM E = ELEVATOR RECALL D = HVAC CONTROL DH = DOOR HOLD RELEASE FD = FIRE DOOR RELEASE MP = MEDICAL PROCEDURE S = SLEEPING / PATIENT ROOM SW = STAIRWELL # = 15, 30, 75, 110, 177 CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
S# S#	FA-120	FIRE ALARM SMOKE DETECTOR, CEILING OR WALL MOUNT BLANK - PHOTOELECTRIC CO = COMBINATION SMOKE / CARBON MONOXIDE COH = COMBINATION SMOKE / CARBON MONOXIDE / HEAT COS = COMBINATION SMOKE / CARBON MONOXIDE / STROBE H = COMBINATION SMOKE / HEAT DETECTOR ION = IONIZATION TYPE
H# H#	FA-140	FIRE ALARM HEAT DETECTOR BLANK = COMBINATION RATE OF RISE / FIXED TEMP AT = ATTIC (LOCATED IN) F = FIXED TEMP RC = RATE COMPENSATED X - EXPLOSION PROOF
S	FA-122	FIRE ALARM DUCT SMOKE DETECTOR # = EQUIP OR SYSTEM
F	FA-130	FIRE ALARM MANUAL PULL STATION
FT	FA-131	FIRE ALARM MANUAL PULL STATION W/ COVER
☒ ☒	FA-200	FIRE ALARM VISUAL ALARM DEVICE, CEILING OR WALL MOUNT # = CANDELA RATING. CD = CANDELA RATING SELECTED BY NICET DESIGNER
F# F#	FA-211	COMBINATION AUDIO HORN/CHIME AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED # = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
S# S#	FA-221	COMBINATION AUDIO (VOICE) AND VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED # = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
#M #M	FA-232	EMERGENCY VISUAL ALARM DEVICE, CEILING OR WALL MOUNTED # = CANDELA RATING CD = CANDELA RATING SELECTED BY NICET DESIGNER
MM	FA-160	FIRE ALARM ADDRESSABLE MONITOR MODULE BLANK = REFER TO PLANS KB = KNOX BOX MONITOR
CM	FA-161	FIRE ALARM ADDRESSABLE CONTROL MODULE BLANK = REFER TO PLANS LC = LIGHTING CONTROL OVERRIDE DH = DOOR HOLD OPEN PD = HOLD OPEN OVERRIDE
DH	FA-270	FIRE ALARM DOOR HOLD DEVICE (BY E.C.)
HD HDS	FA-253	ELEVATOR HOIST WAY DAMPER AND CONTROL SWITCH

TECHNOLOGY SYMBOL LIST

SYMBOL:	EQUIPMENT LIST ABBREV.:	DESCRIPTION:	NOTE:
S	N/A	FACILITY PAGING SPEAKER (CEILING)	.
NCC	NC-NCC-W	NURSE CALL ASSIST CALL CORD (WALL)	.
D	N/A	NURSE CALL DOME LIGHT (CEILING)	.
DTY	NC-DTY-W	NURSE CALL DUTY STATION (WALL)	.
MAS	NC-MAS-W	NURSE CALL MASTER STATION (WALL)	.
NT	NC-NT-W	NURSE CALL PULL CORD STATION - TOILET	.
N	N/A	NURSE CALL SINGLE PATIENT BED STATION (WALL)	.
STF	NC-STF-W	NURSE CALL STAFF STATION (WALL)	.
CM-2	VS-CM-2	VIDEO SURVEILLANCE CAMERA 180° FOV (CEILING/HORIZONTAL SURFACE)	.
CM-4	VS-CM-4	VIDEO SURVEILLANCE CAMERA 270° FOV (CEILING/HORIZONTAL SURFACE)	.
CM-5	VS-CM-5	VIDEO SURVEILLANCE CAMERA 360° FOV (CEILING/HORIZONTAL SURFACE)	.
CM-3	VS-CM-3	VIDEO SURVEILLANCE CAMERA DUAL LENS FOV (CEILING/HORIZONTAL SURFACE)	.
CM-1	VS-CM-1	VIDEO SURVEILLANCE CAMERA SINGLE LENS FOV (CEILING/HORIZONTAL SURFACE)	.
▼	N/A	INFORMATION OUTLET - 1 VOICE 1 DATA (WALL)	.
RI-AV1 ▼	SC-RI-W	TELEVISION ROUGH-IN OUTLET (WALL)	.
C# ▼	N/A	INFORMATION OUTLET (WALL)	.
PM ▼	N/A	PATIENT MONITORING (ORANGE JACK) WALL	.
CR1	AC-CR1-W	SECURITY CREDENTIAL READER (WALL) TYPE 1	.
DR	AC-DR-S	SECURITY DURESS/PANIC BUTTON (SURFACE)	.
IS	N/A	INTERCOM STATION (WALL)	.
WIDTH X HEIGHT		CABLE TRAY, CHANNEL TRAY, BASKET TRAY	

GENERAL NOTES:

1. ALL SYMBOLS AND ABBREVIATIONS LISTED MAY NOT BE APPLICABLE TO THIS PROJECT. REFER TO THE TECHNOLOGY EQUIPMENT SCHEDULE FOR MORE COMPLETE DESCRIPTION AND ITEMS.
2. ALL SYMBOLS AND ABBREVIATIONS REFER TO TECHNOLOGY SHEETS ONLY AS DEFINED ON THE SHEET INDEX. REFER TO THE GENERAL TECHNOLOGY NOTES FOR ADDITIONAL INFORMATION.
3. ALL SYMBOLS LISTED ABOVE ARE FOR REFERENCE ONLY. REFER TO PLANS AND LINE TYPE KEY FOR NEW, EXISTING TO REMAIN AND TO BE REMOVED ITEMS FOR ADDITIONAL INFORMATION.

TECHNOLOGY SYMBOL NOTES:

1. C# INDICATES QUANTITY OF JACKS AND CABLES TO REMOVE IN DEMOLITION.

TECHNOLOGY ABBREVIATION KEY

ABBR:	DESCRIPTION:
AFF	ABOVE FINISHED FLOOR
BFC	BELOW FINISHED CEILING
C	CONDUIT
J-BOX	JUNCTION BOX
SIM	SIMILAR
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
+#	MOUNTING HEIGHT ABOVE FINISHED FLOOR
EF-#	ENTRANCE FACILITY
MC-#	MAIN CROSS-CONNECT
TR-#	TELECOMMUNICATIONS ROOM

TELECOM ROOM REFERENCES

TELECOM ROOM	DETAIL / SHEET REFERENCE	FLOOR PLAN REFERENCE	ARCH ROOM NUMBER
TR-1		E221B	1E-217
TR-2		E222A	2E-110
TR-3		E223A	3E-207B

TECHNOLOGY DEMOLITION NOTES

1. THE DRAWINGS INDICATE EXISTING ITEMS TO BE REMOVED. THE DRAWINGS ARE INTENDED TO INDICATE THE SCOPE OF WORK REQUIRED AND DO NOT INDICATE EVERY BOX, CONDUIT, OR WIRE THAT MUST BE REMOVED. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO SUBMITTING A BID AND VERIFY EXISTING CONDITIONS.
2. ITEMS (i.e. SPEAKERS, SWITCHES, ETC.) REMOVED AND NOT RELOCATED REMAIN THE PROPERTY OF THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF MATERIAL THE OWNER DOES NOT WANT TO REUSE OR RETAIN. (i.e., FOR MAINTENANCE PURPOSES).
3. EXISTING TO REMAIN DEVICES WITHIN OR ADJACENT TO THE PATH OF CONSTRUCTION SHALL BE PROTECTED IN PLACE. DEVICES THAT MUST BE REMOVED SHALL BE TESTED PRIOR TO REMOVAL, PROTECTED FROM DAMAGE, AND RE-INSTALLED IN ITS ORIGINAL LOCATION DURING THE NEW CONSTRUCTION PHASE OF THE PROJECT.
4. OBTAIN APPROVAL FROM THE OWNER BEFORE TURNING OFF THE POWER TO EQUIPMENT, SYSTEMS, PANELS, ETC. COORDINATE ALL OUTAGES WITH OWNER. CONDUIT CONCEALED IN WALL CONSTRUCTION MAY BE ABANDONED IN PLACE IF NOT AFFECTED BY OTHER CONSTRUCTION.
5. ALL CONDUIT SHALL BE REMOVED WHERE WALLS ARE BEING REMOVED. WHERE CONDUIT IS IN THE CONCRETE SLAB, CUT OFF FLUSH, PULL OUT WIRE, AND PLUG. WHERE CONDUIT IS RUN EXPOSED, ALL ASSOCIATED CLAMPS, SUPPORTS, HANGERS, ETC., SHALL ALSO BE REMOVED.
6. COORDINATE ALL WORK WITH OTHER CONTRACTORS AT THE JOB SITE BEFORE REMOVING EXISTING EQUIPMENT AND INSTALLING NEW ITEMS.
7. EXISTING CONDUIT IN GOOD CONDITION, MAY BE REUSED IN PLACE. RELOCATING EXISTING CONDUIT SHALL NOT BE ALLOWED. BONDING CONDUCTORS SHALL BE INSTALLED IN ALL REUSED CONDUIT TO ASSURE PROPER GROUND PATH.
8. EQUIPMENT REMOVAL IN CERTAIN LOCATIONS MAY REQUIRE THE INSTALLATION OF A JUNCTION BOX TO RECONNECT CIRCUITS THAT REMAIN IN OPERATION. EXTEND CONDUIT AND WIRING AS REQUIRED TO MAINTAIN POWER TO REMAINING EQUIPMENT.
9. DEVICES TO BE REMOVED SHALL HAVE ALL CONNECTED WIRING REMOVED TO THE SOURCE.
10. DEVICES NOT TO BE REMOVED SHALL BE PROTECTED FROM THE ENVIRONMENT, AND ALL ASSOCIATED CABLE/RACEWAYS ARE TO REMAIN AND BE PROTECTED. T.C. SHALL BE RESPONSIBLE FOR REPAIR OF ANY INTERRUPTIONS TO PROTECTED DEVICES.
11. REFER TO SPECIFICATIONS SECTION 27 05 00 AND 27 05 05 FOR ADDITIONAL INFORMATION.

TECHNOLOGY GENERAL NOTES:

1. ##-###-# INDICATES TECHNOLOGY EQUIPMENT SCHEDULE ITEM LABELED AS "EQUIPMENT LIST ABBREVIATION"
2. REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR FULL DESCRIPTIONS AND MANUFACTURERS OF ALL DEVICES.

TECHNOLOGY MOUNTING SUBSCRIPT KEY:

A	MOUNT AT +6" TO CENTERLINE ABOVE COUNTER OR BACKSPLASH
H	MOUNT ORIENTED HORIZONTALLY
L	MOUNT IN CASEWORK
M	MOUNT IN MODULAR FURNITURE
S	MOUNT IN SURFACE RACEWAY

A SLASH IS USED BETWEEN TWO SUBSCRIPTS, E.G., A/H.

TECHNOLOGY INSTALLATION NOTES:

1. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADA STANDARDS FOR ACCESSIBLE DESIGN. REFER TO THE ADA GUIDELINES FOR ALL CONFIGURATION DETAILS ON THIS PAGE FOR ADDITIONAL INFORMATION.
2. CONCEAL ALL CONDUIT IN WALLS, PARTITIONS, ABOVE CEILING, IN FLOOR SLAB, ETC. UNLESS OTHERWISE INDICATED ON THE PLANS OR IN THE SPECIFICATIONS. CONDUIT IN MECHANICAL ROOMS AND STORAGE ROOMS WITHOUT CEILINGS MAY BE EXPOSED ON BUILDING STRUCTURE.
3. BOXES LOCATED ON OPPOSITE SIDES OF NON-RATED WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. BOXES ON OPPOSITE SIDES OF FIRE RATED WALLS SHALL BE OFFSET A MINIMUM OF 24" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
4. VERIFY ALL FURNITURE, MODULAR FURNITURE, AND EQUIPMENT LOCATIONS WITH ARCHITECTURAL PLANS, ELEVATIONS, AND REVIEWED SHOP DRAWINGS. PRIOR TO MAKING THE ACTUAL TELECOMMUNICATIONS INSTALLATION, ADJUST OUTLETS OR CONNECTION LOCATIONS TO ACCOMMODATE FURNITURE AND/OR EQUIPMENT.
5. TELECOMMUNICATIONS EQUIPMENT SHALL BE MOUNTED TO ALLOW ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF TELECOMMUNICATION DEVICES ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
7. ALL MATERIALS USED TO SEAL PENETRATIONS OF FIRE RATED WALLS AND FLOORS SHALL BE TESTED AND CERTIFIED AS A SYSTEM PER ASTM E814 STANDARDS FOR FIRE TESTS OF THROUGH-PENETRATION FIRESTOPS. REFER TO 27 05 03 AND 28 05 03 FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFIC TO FIRESTOPPING.
8. ALL LADDER RACK AND CABLE TRAY SIZES ARE AS DEFINED ON THE DRAWINGS. REFER TO SPECIFICATION SECTIONS 26 05 36 AND 27 11 00 FOR APPROVED MANUFACTURERS AND INSTALLATION REQUIREMENTS.
9. EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO THE WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
10. FLUSH MOUNT ALL TELECOMMUNICATION OUTLETS AT +18" FROM FLOOR (CENTERLINE DIMENSION), EXCEPT WHERE OTHERWISE NOTED. OUTLETS MAY BE SURFACE MOUNTED WHEN CONDUIT IS SPECIFIED EXPOSED.

SUGGESTED MATRIX OF RESPONSIBILITY

ITEM:	SHOWN ON:	FURNISHED BY:	INSTALLED BY:	NOTES:
TECHNOLOGY ROUGH-IN, REFER TO TECHNOLOGY EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR DEFINITION	T-SERIES	E.C.	E.C.	3. 4.
INFORMATION OUTLET FACEPLATES, JACKS, AND TERMINATIONS	T-SERIES	T.C.	T.C.	
CONDUIT SLEEVES (WHEN SHOWN ON DRAWINGS)	T-SERIES	E.C.	E.C.	
CONDUIT SLEEVES (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	T.C.	2. 4.
TELECOMMUNICATION SYSTEMS ROUGH-IN	T-SERIES	E.C.	E.C.	1.
TELECOMMUNICATION EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	T.C.	T.C.	2
NURSE CALL ROUGH-IN	T-SERIES	E.C.	E.C.	
NURSE CALL EQUIPMENT, CABLING, AND TERMINATIONS	T-SERIES	E.C.	E.C.	
CABLE TRAY (INCLUDING WIRE BASKET TRAY) REFER TO SPECIFICATION SECTION 27 05 28 FOR DEFINITION	T-SERIES	E.C.	E.C.	
LADDER RACK	T-SERIES	T.C.	T.C.	5.
GROUNDING LUGS ON TECHNOLOGY EQUIPMENT	T-SERIES	T.C.	E.C.	6.
BONDING SYSTEM FOR TECHNOLOGY SYSTEM, REFER TO SPECIFICATION SECTION 27 05 26 FOR DEFINITION	T-SERIES	E.C.	E.C.	7. 8.
CONNECTION OF TECHNOLOGY BONDING SYSTEM TO THE ELECTRICAL GROUND SYSTEM	T-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (+120V OR GREATER)	E-SERIES	E.C.	E.C.	
LINE VOLTAGE POWER (NOT SHOWN BUT REQUIRED FOR PROPER INSTALLATION OF SYSTEM)	N/A	T.C.	E.C.	2. 4.
LINE VOLTAGE POWER FOR DOOR HARDWARE POWER SUPPLIES	ARCH SPEC	E.C.	E.C.	
LOW VOLTAGE CABLING FOR TECHNOLOGY SYSTEMS	T-SERIES	T.C.	T.C.	
CABLE HANGERS AND SUPPORTS OR OTHER CABLE ROUTING METHODS (OTHER THAN CONDUIT AND CABLE TRAY)	T-SERIES	T.C.	T.C.	5.
TECHNOLOGY SERVICE ENTRANCE CONDUITS, HANDHOLES, AND MANHOLES	[E]T-SERIES	E.C.	E.C.	
FLOOR BOX (ROUGH-IN)	T & E SERIES	E.C.	E.C.	

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STATE OF MISSOURI
BRUCE ELDON HART
NUMBER E-22817
PROFESSIONAL ENGINEER
1/16/2023

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Drawn By	Author
Checked By	Checker

Revision

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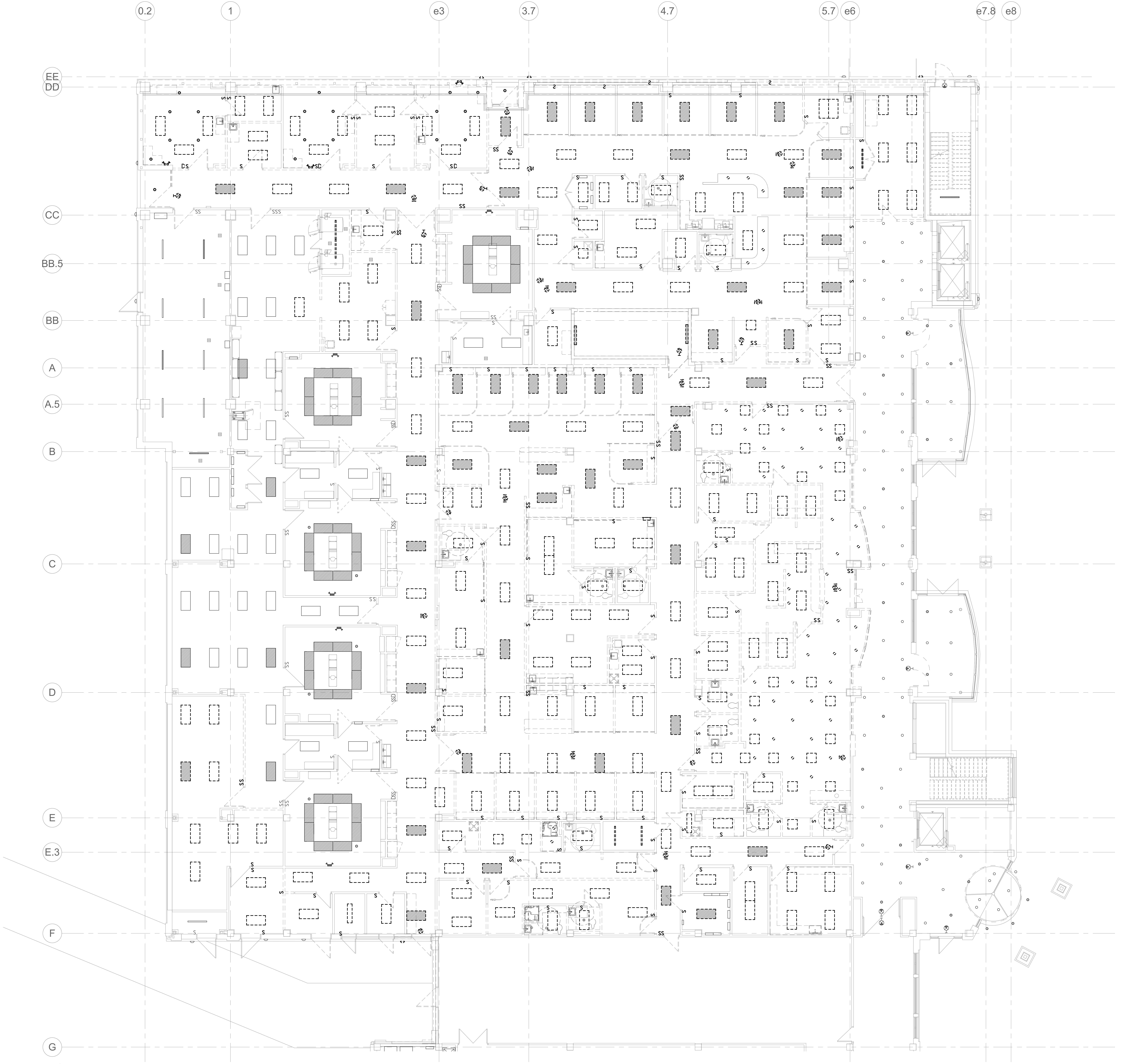
E001

ELECTRICAL SYSTEMS COVERSHEET



1 LEVEL 01 DEMOLITION PLAN - LIGHTING - AREA B

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

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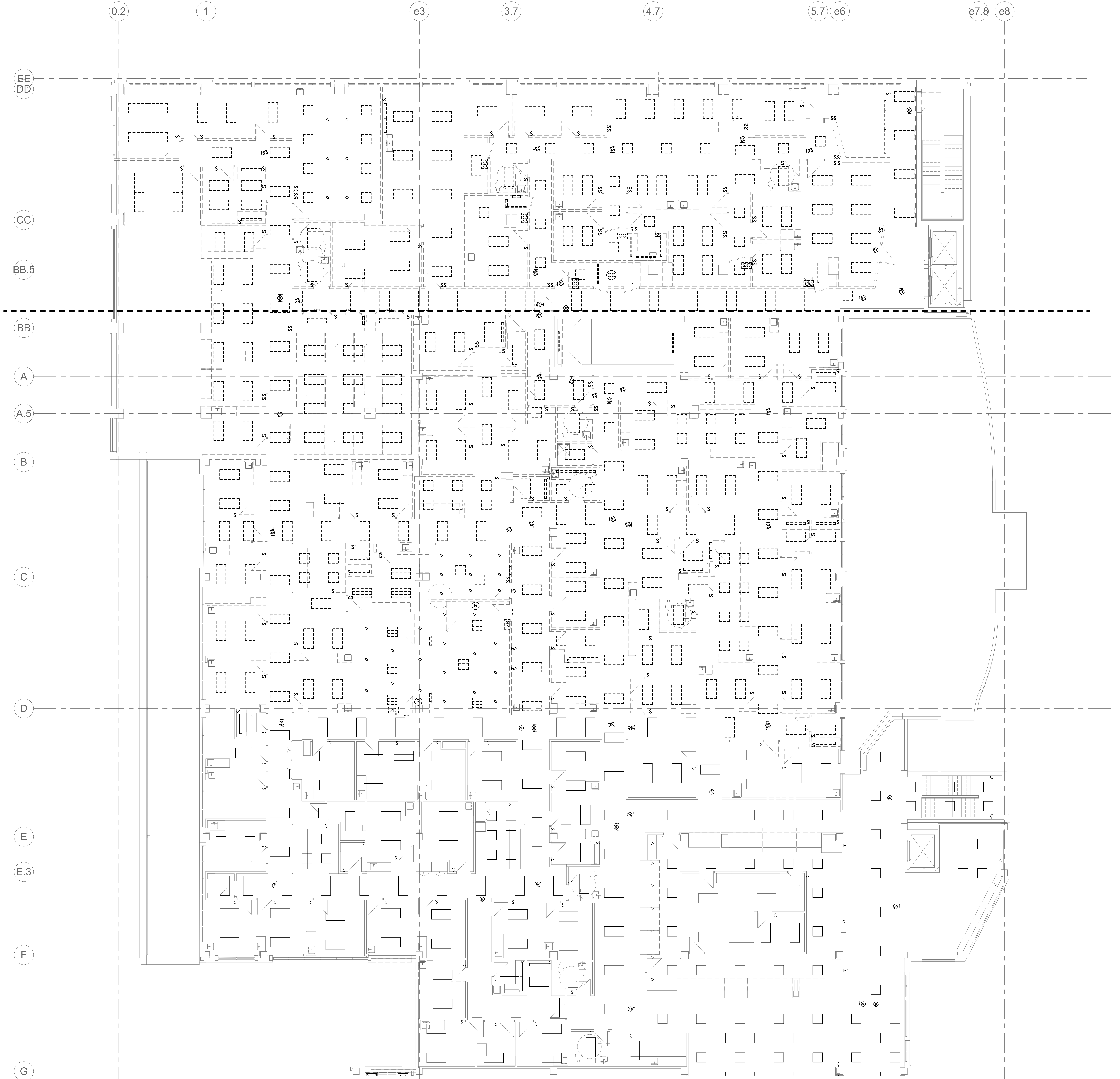
LEVEL 01 DEMOLITION PLAN - LIGHTING - AREA B



SHEET NOTES:

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5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

1 LEVEL 02 DEMOLITION PLAN - LIGHTING - AREA B

1/8" = 1'-0"

NORTH

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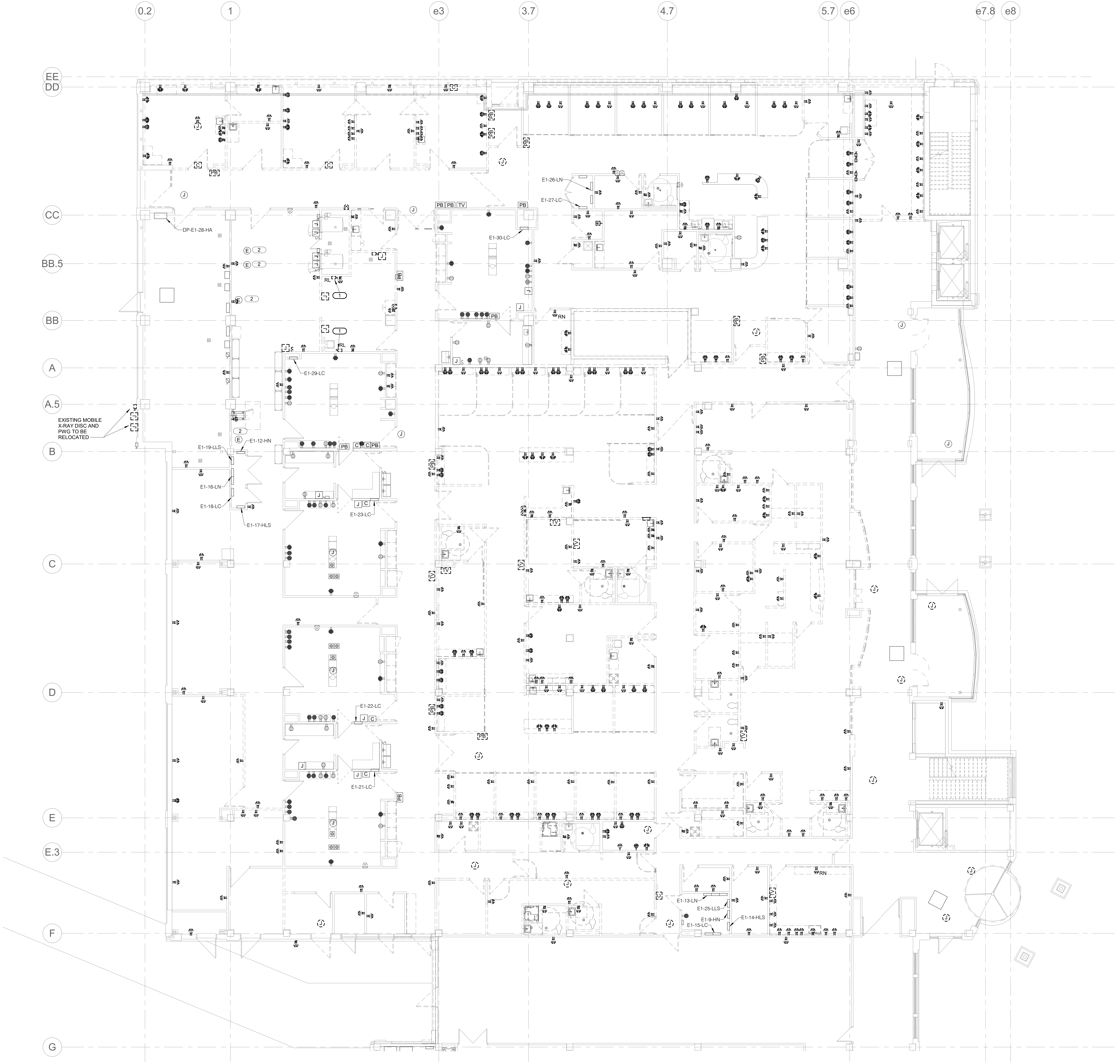
E102B

LEVEL 02 DEMOLITION PLAN - LIGHTING - AREA B



LEVEL 01 DEMOLITION PLAN - POWER - AREA B

1
1/8" = 1'-0"
NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
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3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

KEYED NOTES: #

1. EXISTING 60A DISCONNECT SWITCH SHALL BE DISCONNECTED AND SET ASIDE DURING DEMOLITION. DISCONNECT SWITCH SHALL BE RELOCATED FOR NEW STERILIZER LOCATIONS. REFER TO SHEET E211A FOR MORE INFORMATION.
2. ADAPT AND MODIFY EXISTING PACK WRAP EQUIPMENT CONNECTION TO NEW PACK WRAP LOCATION. COORDINATE LOCATION WITH ARCHITECT.

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ACI/Boland, Inc.
Kansas City | St. Louis

1710 Wyandotte
Kansas City, MO 64108
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Licensee's Certificate of Authority Number:
Missouri: #000958

CONSTRUCTION DOCUMENTS

Saint Luke's
EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	01/16/2023
Job Number	3-21037
Drawn By	ZMB
Checked By	PLR

Revision

Number	Date	Description

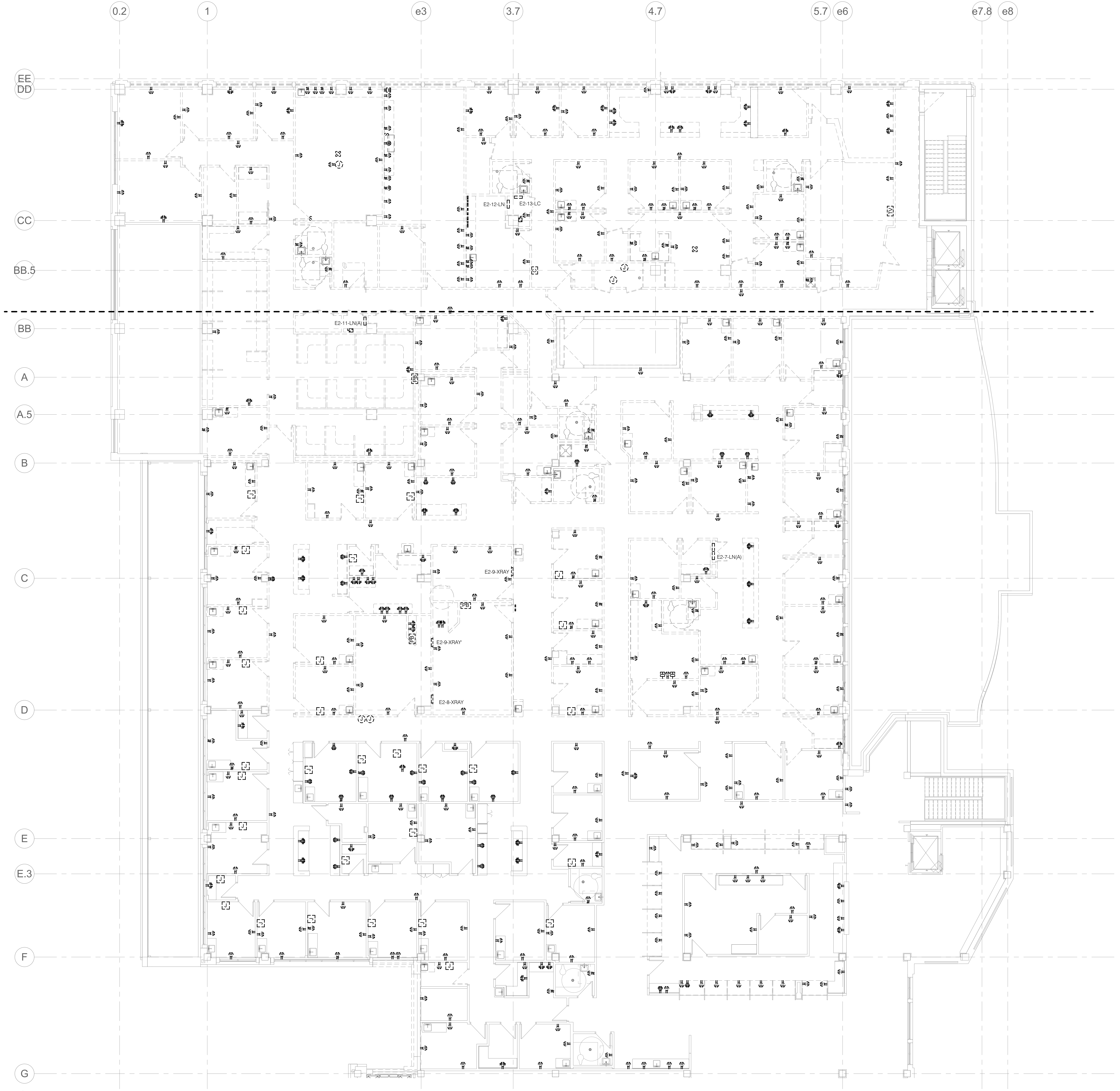
IMEG
1600 BALTIMORE
SUITE 300
KANSAS CITY, MO 64108
P: 816.842.8437
www.imegcorp.com

Missouri Certificate of Authority #F001325536

0 1 2 3
REF. SCALE IN INCHES
PROJECT #21006783.00

E111B

LEVEL 01 DEMOLITION PLAN - POWER - AREA B



1 **LEVEL 02 DEMOLITION PLAN - POWER - AREA B**
1/8" = 1'-0"

NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

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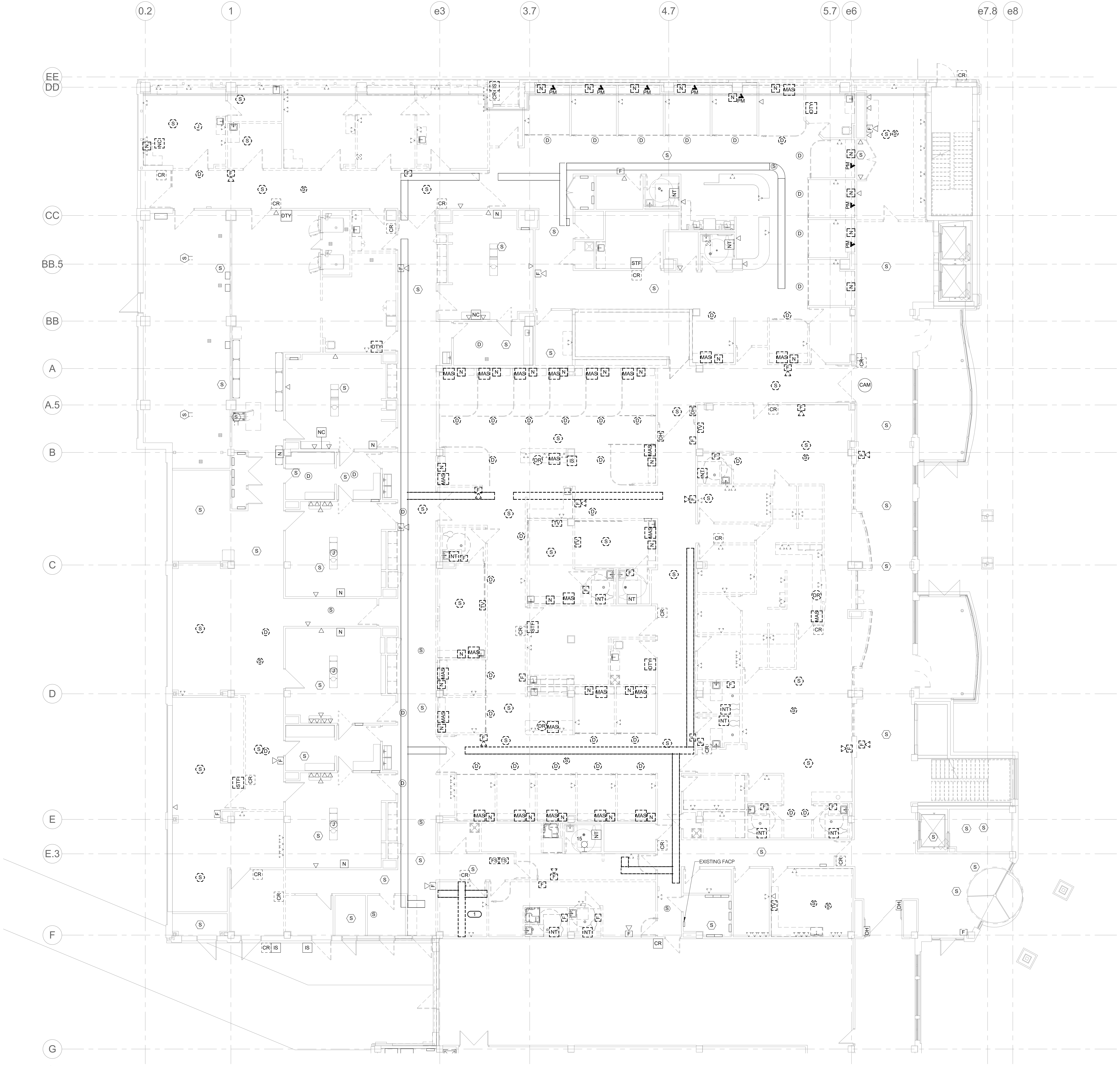
E112B

LEVEL 02 DEMOLITION PLAN - POWER - AREA B



1 LEVEL 01 DEMOLITION PLAN - SYSTEMS - AREA B

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
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3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

KEYNOTES: #

1. EXISTING RACK AND IT EQUIPMENT TO BE RELOCATED. REFER TO SHEET E221A FOR NEW LOCATION. IT ROOM SHALL REMAIN FUNCTIONAL UNTIL EXISTING EQUIPMENT GETS RELOCATED.

BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

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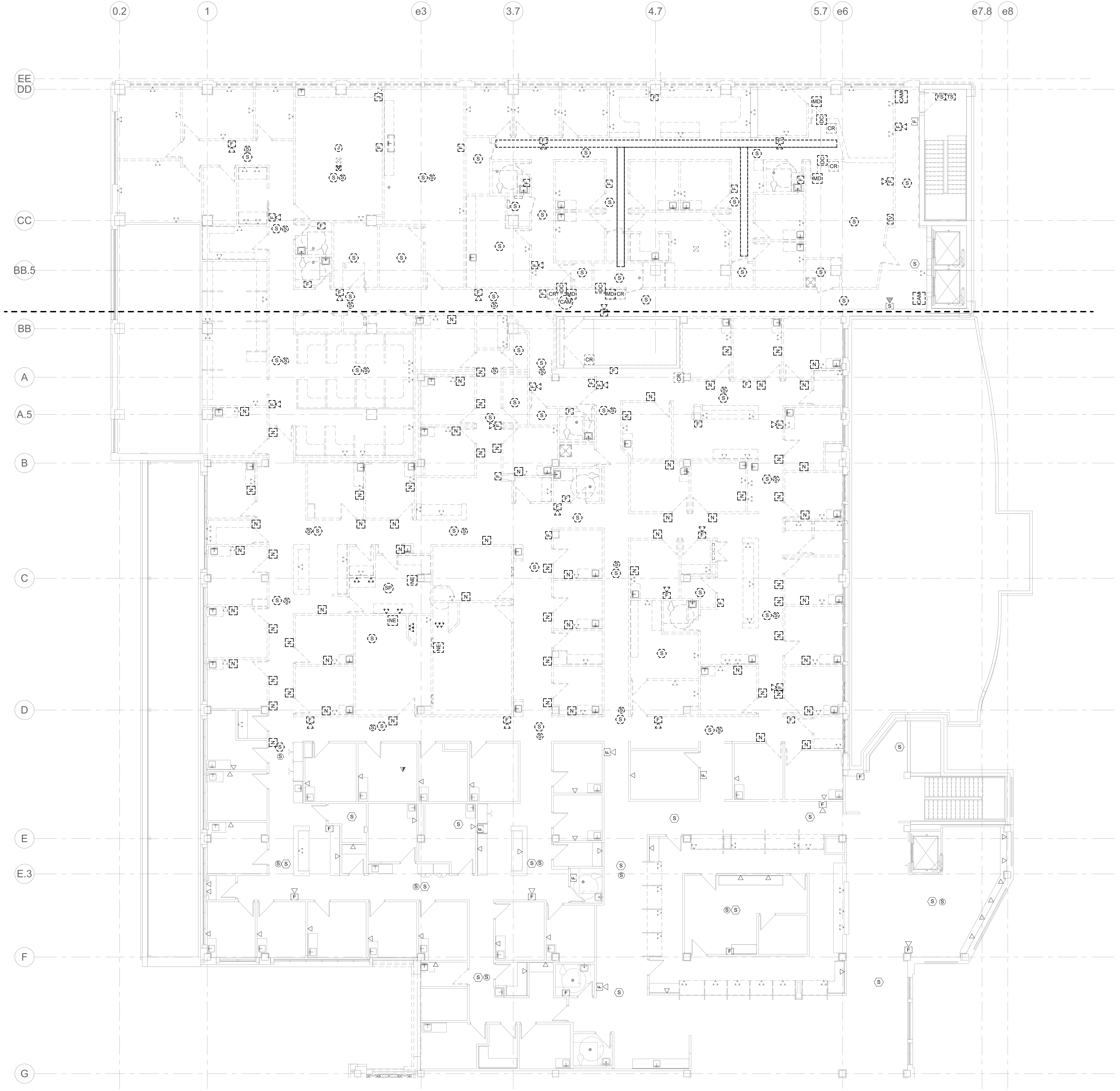
E121B

LEVEL 01 DEMOLITION PLAN - SYSTEMS - AREA B



LEVEL 02 DEMOLITION PLAN - SYSTEMS - AREA B

1/8" = 1'-0"

SHEET NOTES:

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3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

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E122B

LEVEL 02 DEMOLITION PLAN - SYSTEMS - AREA B

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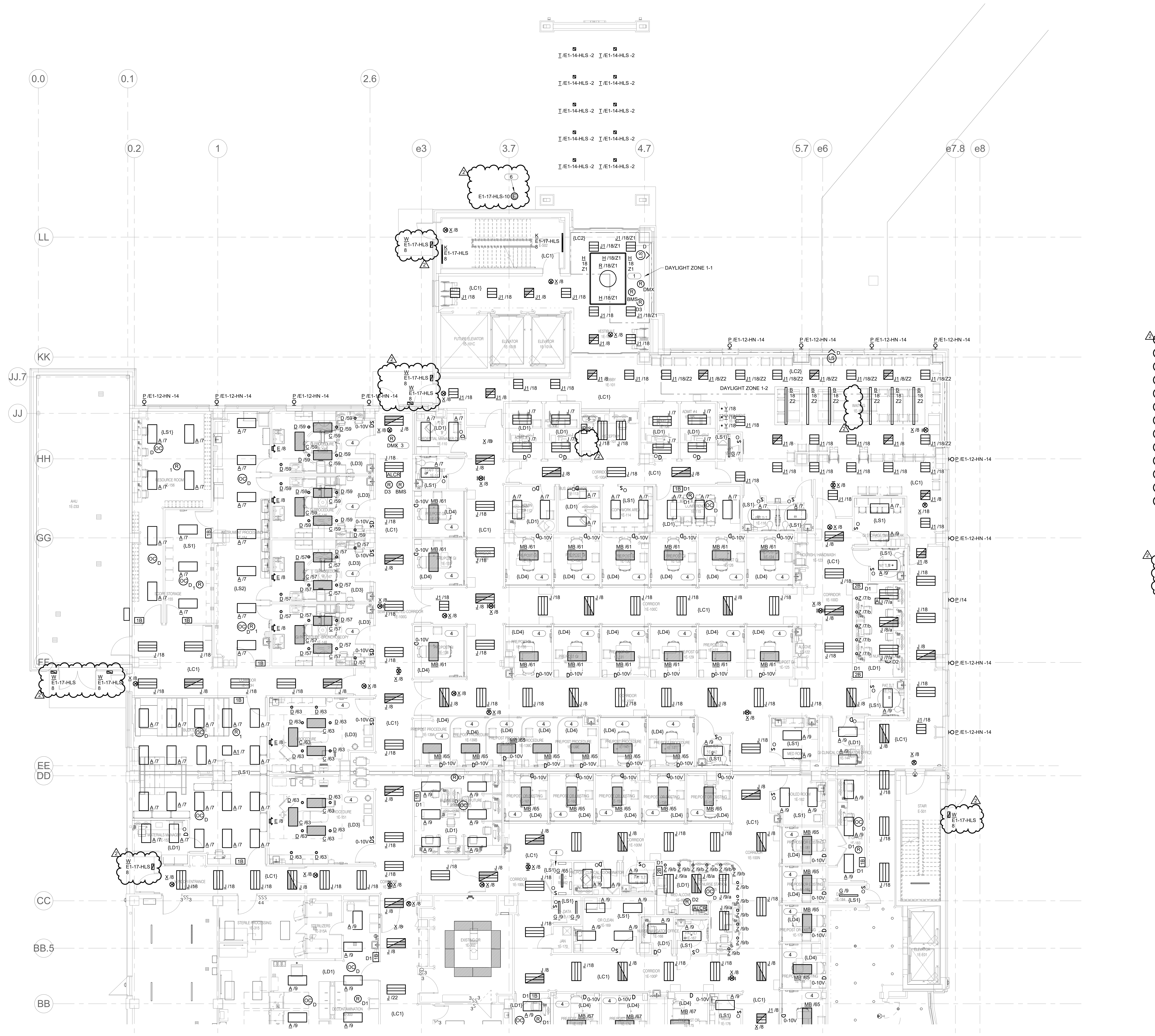

1 LEVEL 01 PLAN - LIGHTING - AREA A

1/8" = 1'-0"

SHEET NOTES:

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2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

LIGHTING CONTROLS:

1. PATIENT CARE SPACES SHALL HAVE LOCAL MANUAL ON/OFF OR DIMMING CONTROL, UNLESS SHOWN DIFFERENTLY ON PLAN.
2. NON-PATIENT CARE SPACES SHALL BE FURNISHED WITH AUTOMATIC LIGHTING CONTROL TO MEET IECC REQUIREMENTS. THE WATTSTOPPER DLM SYSTEM SHALL BE UTILIZED IN ANY ROOM THAT IS TOO LARGE FOR A WALL-MOUNTED OCCUPANCY SENSOR WITH DIMMING CONTROL.
3. CORRIDOR LIGHTING SHALL BE INTERFACED WITH BMS FOR TIME OF DAY CONTROL.
4. NEW EXTERIOR LIGHTS SHALL HAVE MANUAL CONTROL FOR DIMMING AND SHALL BE INTERFACED WITH BMS FOR TIME OF DAY CONTROL.

BRANCH CIRCUIT NOTES:

1. ALL NORMAL POWER LUMINAIRES ARE CONNECTED TO PANEL E1-9-HN UNLESS NOTED OTHERWISE. ALL NORMAL POWER LUMINARIES IN CORRIDORS ARE CONENCTED TO PANEL E1-12-HN, UNLESS OTHERWISE NOTED. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.
2. ALL SWITCHED LIFE SAFETY LUMINAIRES AND EXIT SIGNS ARE CONNECTED TO PANEL E1-17-HLS. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.

KEYNOTES: #

2

1. FURNISH RSN-OPTO-8 FOR CONTROL OF FIXTURE TYPE H. MOUNT RSN-OPTO-8 IN ACCESSIBLE LOCATION ABOVE CEILING. FIELD VERIFY EXACT LOCATION WITH OWNER AND ALL SYSTEMS IN THE AREA. FURISH AND INSTALL ALL WIRE, CABLE, AND CONDUIT BETWEEN FIXTURES, RSN-OPTO-8, AND ETC DMX TOUCH SCREEN CONTROLLER PER MANUFACTURER'S RECOMMENDATION AND INSTRUCTION. PROVIDE ALL EQUIPMENT AND CONNECTIONS AS REQUIRED FOR DAYLIGHT SENSOR TO PROVIDE DIMMING INPUTS AND BMS SYSTEM TO PROVIDE TIMECLOCK AND CONTROL INPUTS TO DMX CONTROLLED FIXTURES.
2. NOT USED.
3. FURNISH RSN-OPTO-8 FOR CONTROL OF FIXTURE TYPE P. MOUNT RSN-OPTO-8 IN ACCESSIBLE LOCATION ABOVE CEILING. FIELD VERIFY EXACT LOCATION WITH OWNER AND ALL SYSTEMS IN THE AREA. FURISH AND INSTALL ALL WIRE, CABLE, AND CONDUIT BETWEEN FIXTURES, RSN-OPTO-8, AND ETC DMX TOUCH SCREEN CONTROLLER PER MANUFACTURER'S RECOMMENDATION AND INSTRUCTION. PROVIDE ALL EQUIPMENT AND CONNECTIONS AS REQUIRED FOR DAYLIGHT SENSOR TO PROVIDE DIMMING INPUTS AND BMS SYSTEM TO PROVIDE TIMECLOCK AND CONTROL INPUTS TO DMX CONTROLLED FIXTURES.
4. ALL SWITCHED CRITICAL LUMINAIRES IN THIS ROOM ARE CONNECTED TO PANEL E1-15-LC. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.
5. 2 BUTTONS SHALL RAISE AND LOWER LIGHTS IN ZONE Z1. 2 BUTTONS SHALL RAISE AND LOWER LIGHTS IN ZONE Z2.
6. CIRCUITS PROVIDED FOR PARKING LOT. REFER TO CIVIL SITE LIGHTING PLANS ON SHEET C402 FOR FIXTURE SPECIFICATIONS AND QUANTITY. E.C. SHALL FURNISH AND INSTALL PARKING LOT LIGHT FIXTURES AND BASES.

2

BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

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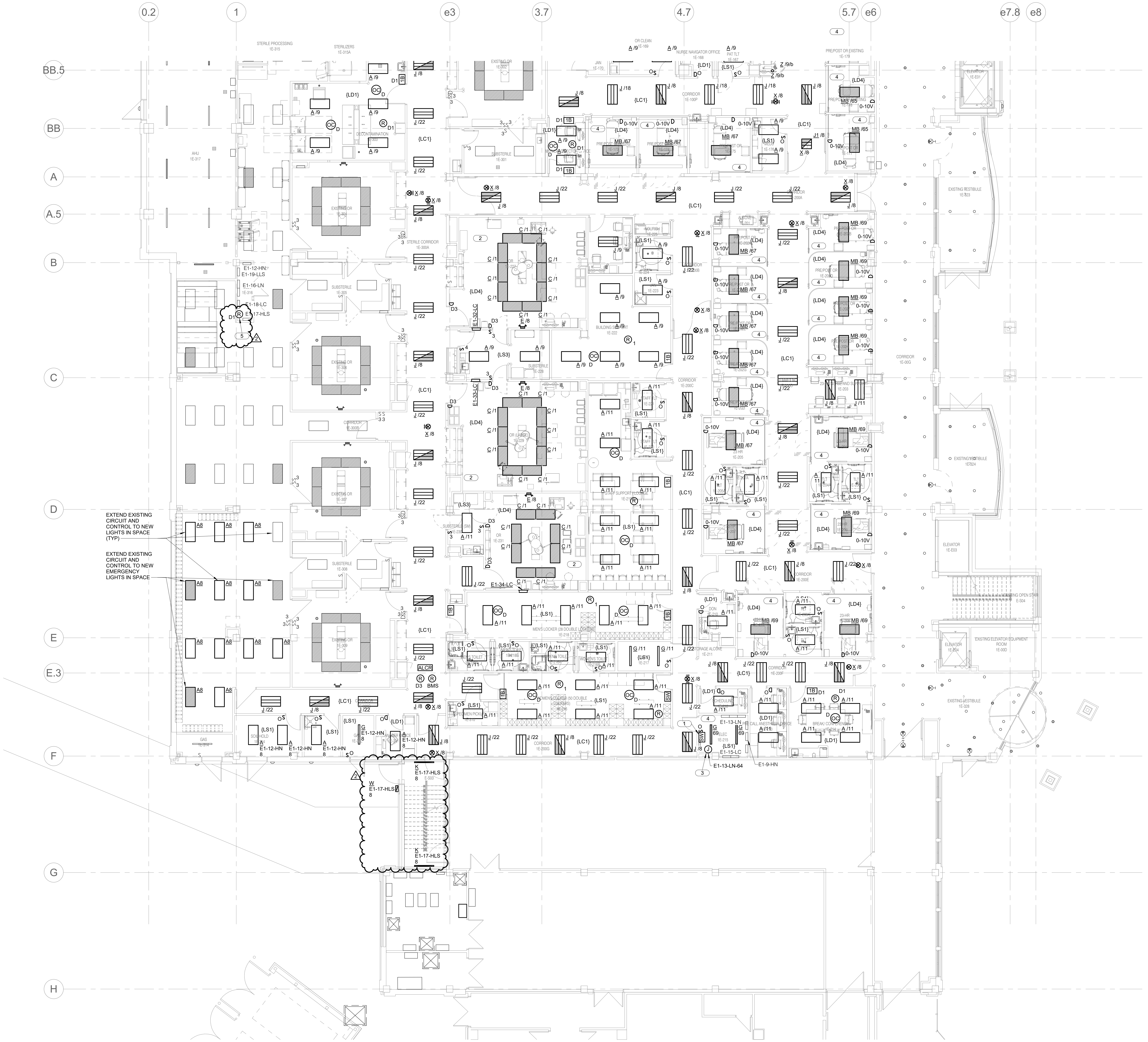
E201A

LEVEL 01 PLAN - LIGHTING - AREA A



LEVEL 01 PLAN - LIGHTING - AREA B

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

EXTERIOR LIGHTING SCOPE:

1. REFER TO SHEET C401 FOR SPEC AND LOCATION OF (29) NEW POLE-MOUNTED LIGHT FIXTURES IN EXPANDED PARKING LOTS. CONNECT FIXTURES TO SPARE 20A, 1P CIRCUIT BREAKERS IN EXISTING PANEL 'E1-12-HN'.

LIGHTING CONTROLS:

1. PATIENT CARE SPACES SHALL HAVE LOCAL MANUAL ON/OFF OR DIMMING CONTROL, UNLESS SHOWN DIFFERENTLY ON PLAN.
2. NON-PATIENT CARE SPACES SHALL BE FURNISHED WITH AUTOMATIC LIGHTING CONTROL TO MEET IECC REQUIREMENTS. THE WATTSTOPPER DLM SYSTEM SHALL BE UTILIZED IN ANY ROOM THAT IS TOO LARGE FOR A WALL-MOUNTED OCCUPANCY SENSOR WITH DIMMING CONTROL.
3. CORRIDOR LIGHTING SHALL BE INTERFACED WITH BMS FOR TIME OF DAY CONTROL.

BRANCH CIRCUIT NOTES:

1. ALL NORMAL POWER LUMINAIRES ARE CONNECTED TO PANEL E1-9-HN UNLESS NOTED OTHERWISE. ALL NORMAL POWER LUMINARIES IN CORRIDORS ARE CONENCTED TO PANEL E1-12-HN, UNLESS OTHERWISE NOTED. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.
2. ALL SWITCHED LIFE SAFETY LUMINAIRES, EXIT SIGNS, AND EMERGENCY UNITS ARE CONNECTED TO PANEL E1-17-HLS. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.

2 **KEYNOTES:** #

1. ETC DMX TOUCH SCREEN CONTROLLER. FIELD VERIFY EXACT LOCATION AND COORDINATE LOCATION OF CONTROLLER WITH OWNER.
2. ALL SWITCHED CRITICAL LUMINAIRES IN THIS ROOM ARE CONNECTED TO PANEL IN THIS ROOM. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.
3. ETC E-SPS-DIN DEVICE. FURNISH AND INSTALL DEVICE ABOVE CEILING AND CONNECT TO ETC DMX TOUCH SCREEN CONTROLLER.
4. ALL SWITCHED CRITICAL LUMINAIRES IN THIS ROOM ARE CONNECTED TO PANEL E1-15-LC. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.
5. FURNISH AND INSTALL NEW CONTROLLER AT EXISTING PANEL 'E1-17-HLS' TO CONNECT NEW CIRCUIT FOR PARKING LOT LIGHTS. ROOM CONTROLLER SHALL INTERFACE WITH EXISTING BMS SYSTEM TO CONTROL LIGHTS AT A SET TIME. COORDINATE TIME SCHEDULE OF PARKING LOT LIGHTS WITH OWNER. REFER TO SHEET E201A KEYNOTE 6 FOR MORE INFORMATION.

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BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

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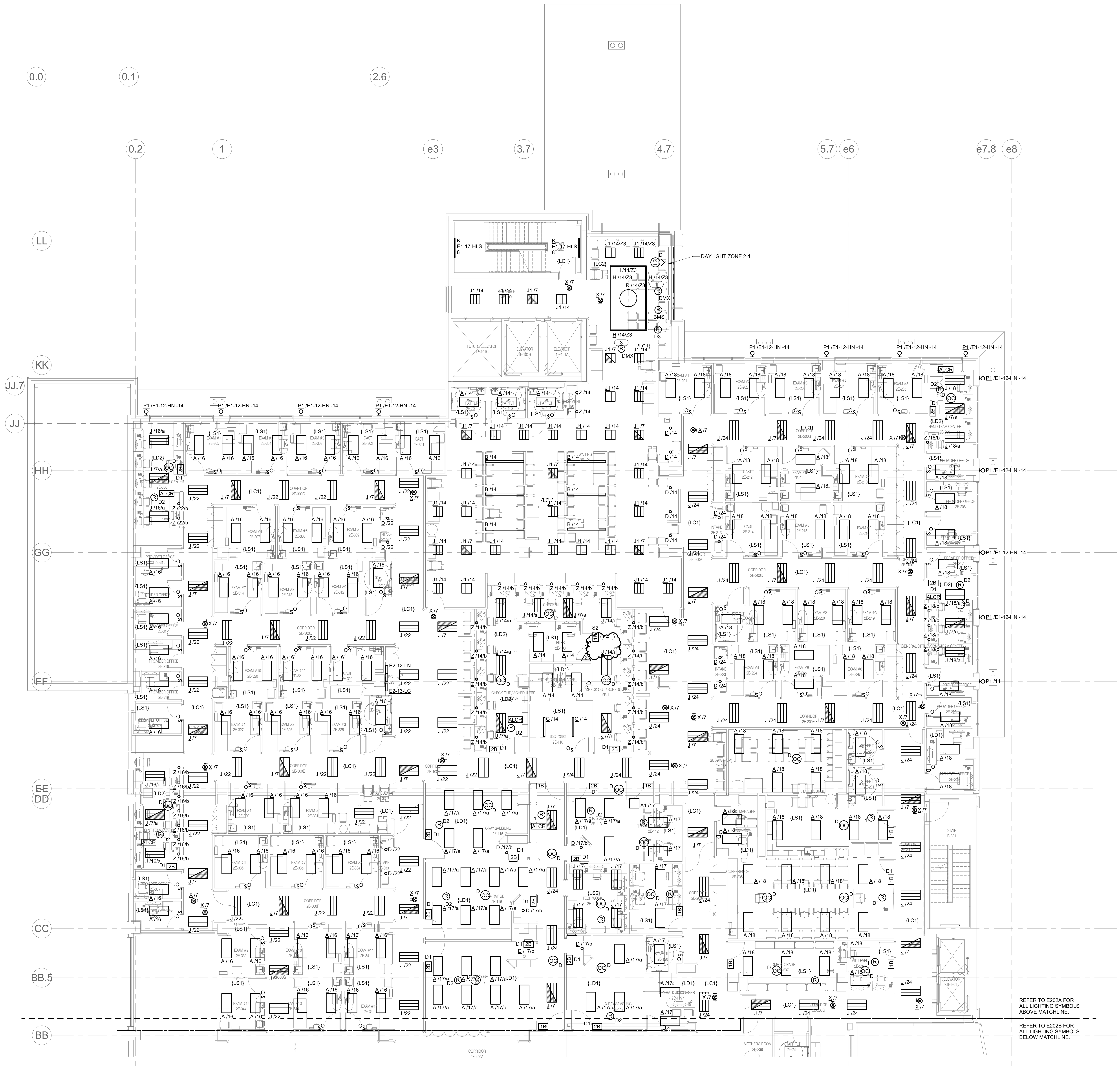
Revision

Number	Date	Description
2	2/10/23	Addendum 2

E201B

LEVEL 01 PLAN - LIGHTING - AREA B



REFER TO E202A FOR
ALL LIGHTING SYMBOLS
ABOVE MATCHLINE.

REFER TO E202B FOR
ALL LIGHTING SYMBOLS
BELOW MATCHLINE.

1 LEVEL 02 PLAN - LIGHTING - AREA A

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
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3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

LIGHTING CONTROLS:

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2. NON-PATIENT CARE SPACES SHALL BE FURNISHED WITH AUTOMATIC LIGHTING CONTROL TO MEET IECC REQUIREMENTS. THE WATTSTOPPER DLM SYSTEM SHALL BE UTILIZED IN ANY ROOM THAT IS TOO LARGE FOR A WALL-MOUNTED OCCUPANCY SENSOR WITH DIMMING CONTROL.
3. CORRIDOR LIGHTING SHALL BE INTERFACED WITH BMS FOR TIME OF DAY CONTROL.
4. NEW EXTERIOR LIGHTS SHALL HAVE MANUAL CONTROL FOR DIMMING AND RGB CONTROL AND SHALL BE INTERFACED WITH BMS FOR TIME OF DAY CONTROL.

BRANCH CIRCUIT NOTES:

1. ALL NORMAL POWER LUMINAIRES ARE CONNECTED TO PANEL E2-1-HN UNLESS NOTED OTHERWISE. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.
2. ALL SWITCHED LIFE SAFETY LUMINAIRES AND EXIT SIGNS ARE CONNECTED TO PANEL E2-3-HLS. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.

KEYNOTES: #

2

1. FURNISH RSN-OPTO-8 FOR CONTROL OF FIXTURE TYPE H. MOUNT RSN-OPTO-8 IN ACCESSIBLE LOCATION ABOVE CEILING. FIELD VERIFY EXACT LOCATION WITH OWNER AND ALL SYSTEMS IN THE AREA. FURISH AND INSTALL ALL WIRE, CABLE, AND CONDUIT BETWEEN FIXTURES, RSN-OPTO-8, AND ETC DMX TOUCH SCREEN CONTROLLER PER MANUFACTURER'S RECOMMENDATION AND INSTRUCTION. PROVIDE ALL EQUIPMENT AND CONNECTIONS AS REQUIRED FOR DAYLIGHT SENSOR TO PROVIDE DIMMING INPUTS AND BMS SYSTEM TO PROVIDE TIMECLOCK AND CONTROL INPUTS TO DMX CONTROLLED FIXTURES.
2. NOT USED.
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4. 2 BUTTONS SHALL RAISE AND LOWER LIGHTS IN ZONE Z3.

STATE OF MISSOURI
BRUCE ELDON HART
NUMBER E-22817
PROFESSIONAL ENGINEER
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

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E202A

LEVEL 02 PLAN - LIGHTING - AREA A

2/10/2023 4:05:40 PM

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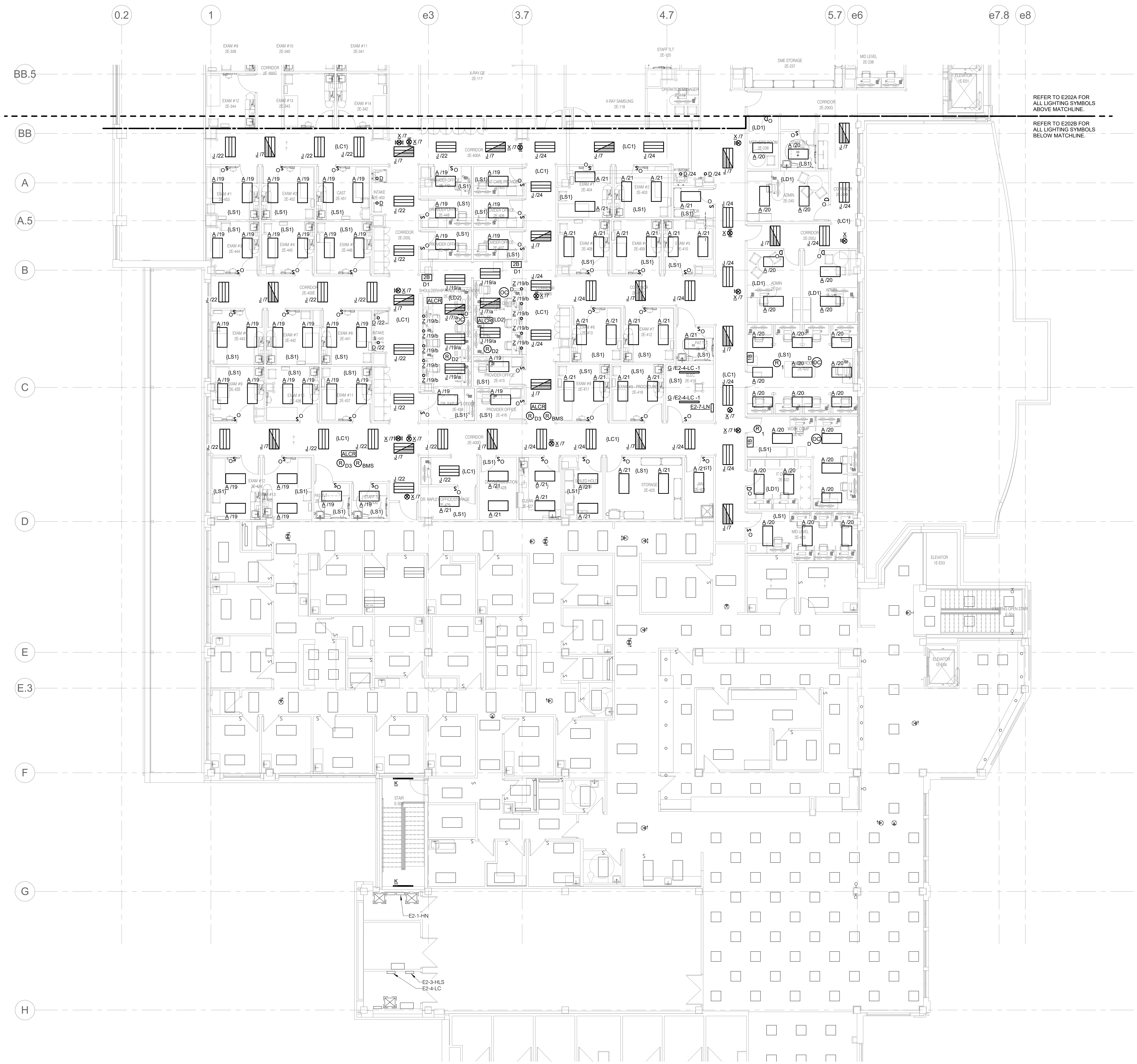
0.2
1
e3
3.7
4.7
5.7
e6
e7.8
e8
BB.5
BB
A
A.5
B
C
D
E
E.3
F
G
H
REFER TO E202A FOR ALL LIGHTING SYMBOLS ABOVE MATCHLINE.
REFER TO E202B FOR ALL LIGHTING SYMBOLS BELOW MATCHLINE.
E2-1-HN
E2-3-HLS
E2-4-LC
E2-4-LC-1
E2-7-LN
ALCR
BMS
{LS1}
{LC1}
{LD1}
{LD2}

1 LEVEL 02 PLAN - LIGHTING - AREA B

1/8" = 1'-0"

NORTH

SHEET NOTES:

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LIGHTING CONTROLS:

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3. CORRIDOR LIGHTING SHALL BE INTERFACED WITH BMS FOR TIME OF DAY CONTROL.

BRANCH CIRCUIT NOTES:

1. ALL NORMAL POWER LUMINAIRES ARE CONNECTED TO PANEL E2-1-HN UNLESS NOTED OTHERWISE. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.
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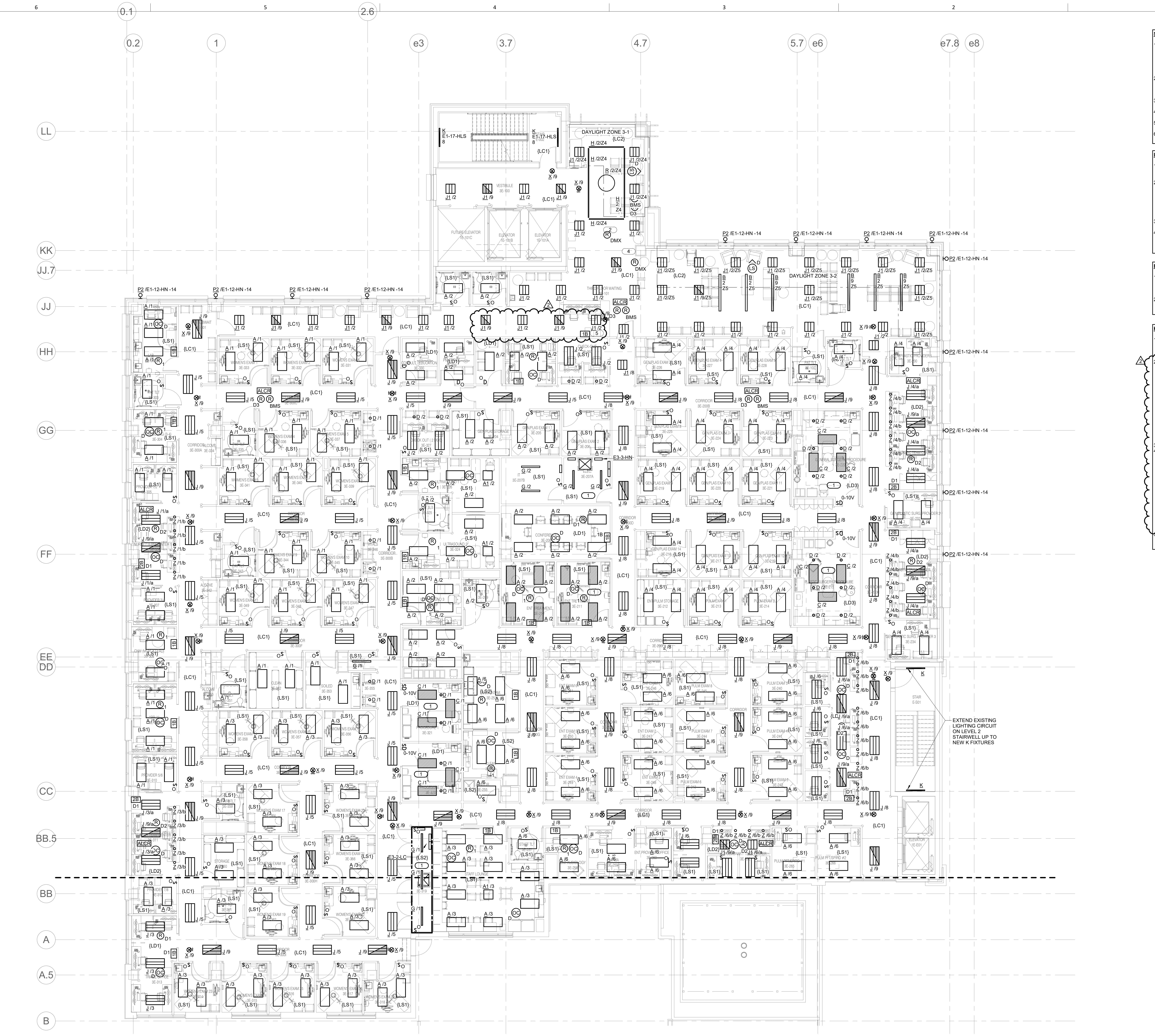
E202B

LEVEL 02 PLAN - LIGHTING - AREA B



LEVEL 03 PLAN - LIGHTING - AREA A

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

LIGHTING CONTROLS:

1. PATIENT CARE SPACES SHALL HAVE LOCAL MANUAL ON/OFF OR DIMMING CONTROL, UNLESS SHOWN DIFFERENTLY ON PLAN.
2. NON-PATIENT CARE SPACES SHALL BE FURNISHED WITH AUTOMATIC LIGHTING CONTROL TO MEET IECC REQUIREMENTS. THE WATTSTOPPER DLM SYSTEM SHALL BE UTILIZED IN ANY ROOM THAT IS TOO LARGE FOR A WALL-MOUNTED OCCUPANCY SENSOR WITH DIMMING CONTROL.
3. CORRIDOR LIGHTING SHALL BE INTERFACED WITH BMS FOR TIME OF DAY CONTROL.
4. NEW EXTERIOR LIGHTS SHALL HAVE MANUAL CONTROL FOR DIMMING AND RGB CONTROL AND SHALL BE INTERFACED WITH BMS FOR TIME OF DAY CONTROL.

BRANCH CIRCUIT NOTES:

1. ALL NORMAL POWER LUMINAIRES ARE CONNECTED TO PANEL E3-3-HN UNLESS NOTED OTHERWISE. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.
2. ALL SWITCHED LIFE SAFETY LUMINAIRES ARE CONNECTED TO PANEL E2-3-HLS. CIRCUIT NUMBER IS INDICATED AFTER LUMINAIRE TAG.

KEYNOTES: #

1. LUMINAIRES IN ROOM/CLOSET ARE CIRCUITED TO CRITICAL POWER PANEL E3-2-LC. NUMBER AFTER LUMINAIRE TAG DESIGNATES CIRCUIT NUMBER.
2. FURNISH RSN-OPTO-8 FOR CONTROL OF FIXTURE TYPE H. MOUNT RSN-OPTO-8 IN ACCESSIBLE LOCATION ABOVE CEILING. FIELD VERIFY EXACT LOCATION WITH OWNER AND ALL SYSTEMS IN THE AREA. FURISH AND INSTALL ALL WIRE, CABLE, AND CONDUIT BETWEEN FIXTURES, RSN-OPTO-8, AND ETC DMX TOUCH SCREEN CONTROLLER PER MANUFACTURER'S RECOMMENDATION AND INSTRUCTION. PROVIDE ALL EQUIPMENT AND CONNECTIONS AS REQUIRED FOR DAYLIGHT SENSOR TO PROVIDE DIMMING INPUTS AND BMS SYSTEM TO PROVIDE TIMECLOCK AND CONTROL INPUTS TO DMX CONTROLLED FIXTURES.
3. NOT USED.
4. FURNISH RSN-OPTO-8 FOR CONTROL OF FIXTURE TYPE P2. MOUNT RSN-OPTO-8 IN ACCESSIBLE LOCATION ABOVE CEILING. FIELD VERIFY EXACT LOCATION WITH OWNER AND ALL SYSTEMS IN THE AREA. FURISH AND INSTALL ALL WIRE, CABLE, AND CONDUIT BETWEEN FIXTURES, RSN-OPTO-8, AND ETC DMX TOUCH SCREEN CONTROLLER PER MANUFACTURER'S RECOMMENDATION AND INSTRUCTION. PROVIDE ALL EQUIPMENT AND CONNECTIONS AS REQUIRED FOR DAYLIGHT SENSOR TO PROVIDE DIMMING INPUTS AND BMS SYSTEM TO PROVIDE TIMECLOCK AND CONTROL INPUTS TO DMX CONTROLLED FIXTURES.
5. 2 BUTTONS SHALL RAISE AND LOWER LIGHTS IN ZONE Z4. 2 BUTTONS SHALL RAISE AND LOWER LIGHTS IN ZONE Z5.

2

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BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

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Drawn By	ZMB
Checked By	PLR

Revision

Number	Date	Description
2	2/10/23	Addendum 2

E203A

LEVEL 03 PLAN - LIGHTING - AREA A

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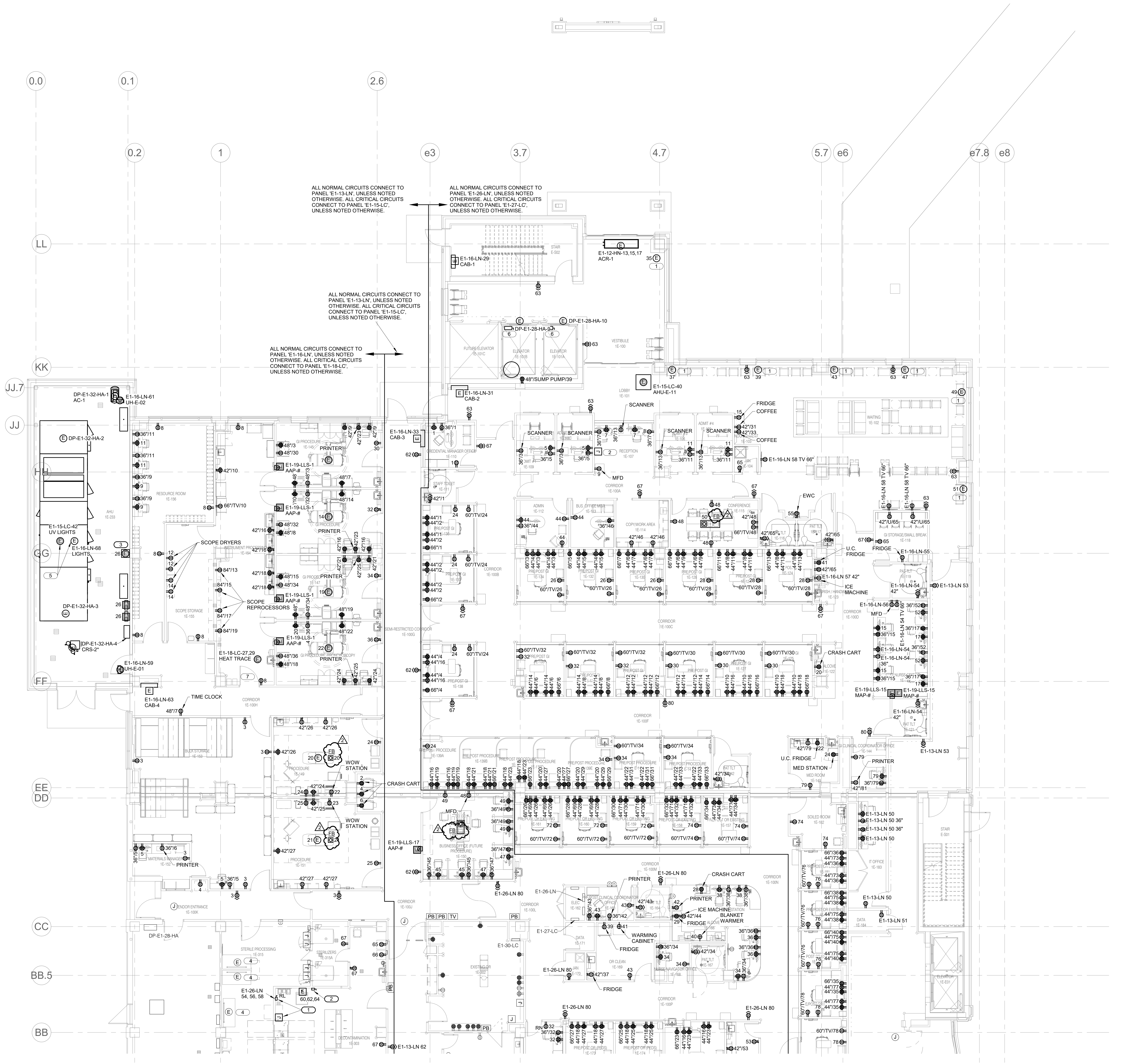

LEVEL 01 PLAN - POWER - AREA A

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

MECHANICAL EQUIPMENT:

1. REFER TO MECHANICAL AND PLUMBING PLANS FOR LOCATION OF EQUIPMENT AND VARIOUS EQUIPMENT SCHEDULES ON SHEETS M600 THROUGH M602 FOR ADDITIONAL INFORMATION ON EQUIPMENT.
2. AHU-E-8, AHU-E-9, LAB AIR COMPRESSOR, DUPLEX CONDENSATE PUMP, EXHAUST FANS EF-17 AND EF-18, AND TWO CONDENSING UNITS FURNISHED WITH I.T. IN-ROW COOLERS BY EC SHALL BE CONNECTED TO NEW DISTRIBUTION PANEL 'DP-E1-32-HA'.
3. EXHAUST FANS EF-15 AND EF-16 SHALL BE CONNECTED TO NEW PANEL 'E3-4-LN'.
4. EXISTING EXHAUST FANS EF-10 AND EF-11 ARE BEING REPLACED AND RELOCATED TO NEW HIGHER ROOF. NEW FANS SHALL BE RECONNECTED TO EXISTING CIRCUITS SERVING THEM - EXTEND CIRCUITS AS REQUIRED.
5. EXISTING EXHAUST FANS EF-1, 2, 3, 5, 6, 7, 8 AND 9 ARE BEING REPLACED IN SAME LOCATION. EXISTING CIRCUIT SERVING EACH SHALL BE RECONNECTED TO NEW FAN.
6. EXISTING EXHAUST FAN EF-4 IS BEING REMOVED.
7. VARIOUS FAN COIL UNITS, CABINET HEATERS, UNIT HEATERS AND AIR CURTAIN SHALL BE SERVED BY NEAREST 120/208V OR 277/480V NORMAL POWER PANEL.

KEYNOTES: (#)

1. MOTORIZED SHADE POWER. PROVIDE ALL MATERIAL NECESARY FOR COMPLETE INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. PROVIDE CONDUIT AND WIRING TO CONTROL STATION.
2. MOTORIZED SHADE CONTROL STATION. FIELD VERIFY EXACT LOCATION WITH OWNER AND ARCHITECT.
3. VAV BOX POWER SUPPLY CABINET LOCATED IN AHU 1E-233.
4. ADAPT AND MODIFY EXISTING PACK WRAP EQUIPMENT CONNECTION TO NEW PACK WRAP LOCATION. COORDINATE LOCATION WITH ARCHITECT.
5. CIRCUITS SHOWN FOR LIGHTS AND UV SYSTEM IN AIR HANDLING UNIT. COORDINATE WITH MECHANICAL CONTRACTOR.
6. COORDINATE PROVISION OF AND SIZE OF DISCONNECT SWITCH AND CONTROLLER WITH ELEVATOR MANUFACTURER.
7. PROVIDE HEAT TRACE CABLE ON HOT WATER LINE FOR HOSPITAL SCOPE CLEANER. COORDINATE HEAT TRACE LOCATION WITH PLUMBING CONTRACTOR.

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1/16/2023

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Checked By	PLR

Revision

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2	2/10/23	Addendum 2

E211A

LEVEL 01 PLAN - POWER - AREA A

2/10/2023 4:06:11 PM

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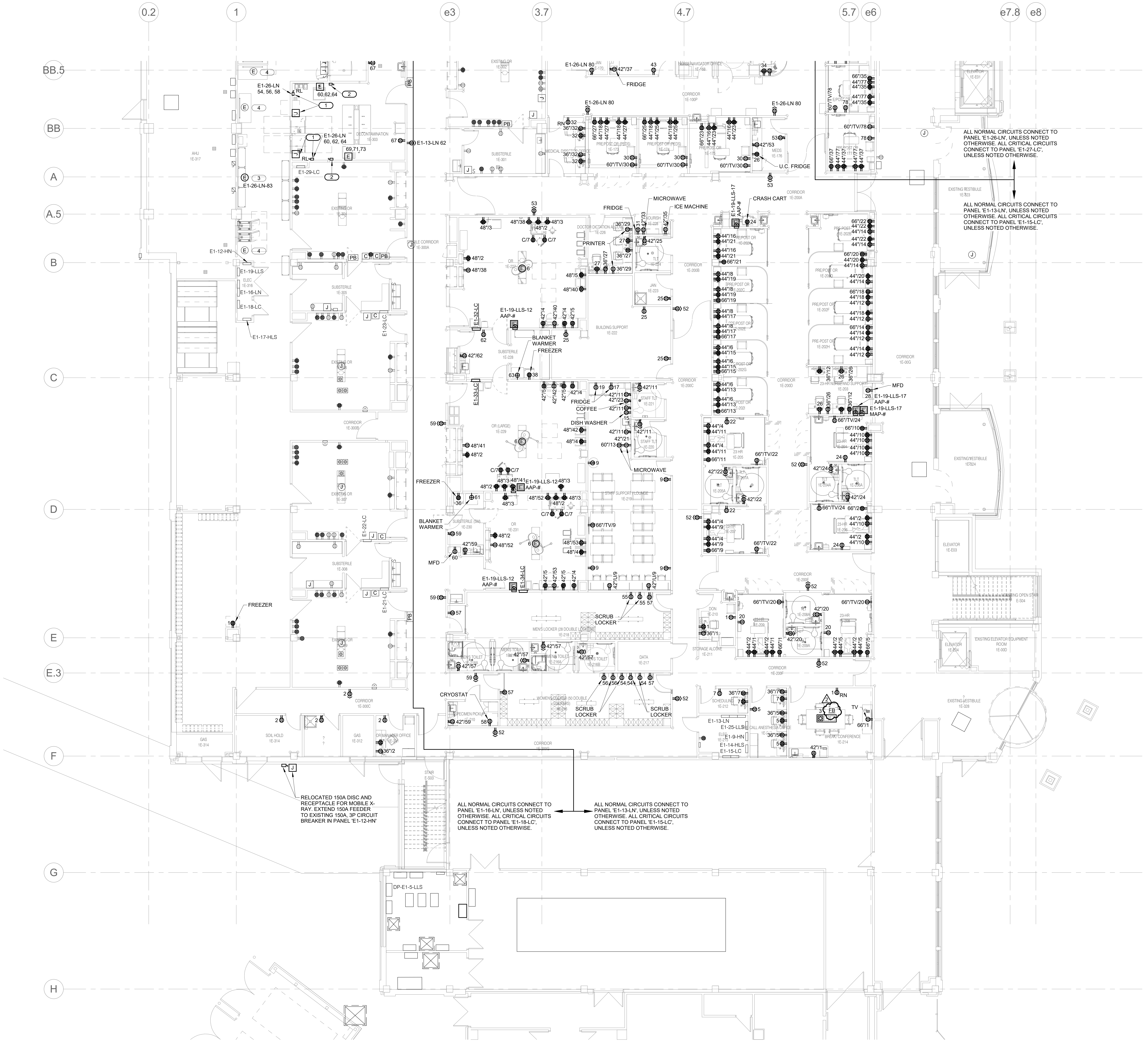

ALL NORMAL CIRCUITS CONNECT TO PANEL 'E1-26-LN', UNLESS NOTED OTHERWISE. ALL CRITICAL CIRCUITS CONNECT TO PANEL 'E1-27-LC', UNLESS NOTED OTHERWISE.

ALL NORMAL CIRCUITS CONNECT TO PANEL 'E1-13-LN', UNLESS NOTED OTHERWISE. ALL CRITICAL CIRCUITS CONNECT TO PANEL 'E1-15-LC', UNLESS NOTED OTHERWISE.

RELOCATED 150A DISC AND RECEPTACLE FOR MOBILE X-RAY. EXTEND 150A FEEDER TO EXISTING 150A, 3P CIRCUIT BREAKER IN PANEL 'E1-12-HN'

ALL NORMAL CIRCUITS CONNECT TO PANEL 'E1-16-LN', UNLESS NOTED OTHERWISE. ALL CRITICAL CIRCUITS CONNECT TO PANEL 'E1-18-LC', UNLESS NOTED OTHERWISE.

ALL NORMAL CIRCUITS CONNECT TO PANEL 'E1-13-LN', UNLESS NOTED OTHERWISE. ALL CRITICAL CIRCUITS CONNECT TO PANEL 'E1-15-LC', UNLESS NOTED OTHERWISE.

1 LEVEL 01 PLAN - POWER - AREA B

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

MECHANICAL EQUIPMENT:

1. REFER TO MECHANICAL AND PLUMBING PLANS FOR LOCATION OF EQUIPMENT AND VARIOUS EQUIPMENT SCHEDULES ON SHEETS M600 THROUGH M602 FOR ADDITIONAL INFORMATION ON EQUIPMENT.
2. AHU-E-8, AHU-E-9, LAB AIR COMPRESSOR, DUPLEX CONDENSATE PUMP, EXHAUST FANS EF-17 AND EF-18, AND TWO CONDENSING UNITS FURNISHED WITH I.T. IN-ROW COOLERS BY EC SHALL BE CONNECTED TO NEW DISTRIBUTION PANEL 'DP-E1-32-HA'.
3. EXHAUST FANS EF-15 AND EF-16 SHALL BE CONNECTED TO NEW PANEL 'E3-4-LN'.
4. EXISTING EXHAUST FANS EF-10 AND EF-11 ARE BEING REPLACED AND RELOCATED TO NEW HIGHER ROOF. NEW FANS SHALL BE RECONNECTED TO EXISTING CIRCUITS SERVING THEM - EXTEND CIRCUITS AS REQUIRED.
5. EXISTING EXHAUST FANS EF-1, 2, 3, 5, 6, 7, 8 AND 9 ARE BEING REPLACED IN SAME LOCATION. EXISTING CIRCUIT SERVING EACH SHALL BE RECONNECTED TO NEW FAN.
6. EXISTING EXHAUST FAN EF-4 IS BEING REMOVED.
7. VARIOUS FAN COIL UNITS, CABINET HEATERS, UNIT HEATERS AND AIR CURTAIN SHALL BE SERVED BY NEAREST 120/208V OR 277/480V NORMAL POWER PANEL.

KEYNOTES: (#)

1. RELOCATE AND RECONNECT EXISTING 60 AMP DISCONNECT SWITCH. CONNECT TO EXISTING CIRCUIT AND TO STERILIZER AS REQUIRED.
2. FURNISH AND INSTALL NEW 60 AMP, 3-POLE NON-FUSED DISCONNECT SWITCH FOR ULTRASONIC CLEANER.
3. PROVIDE CONNECTION TO NEW PACK WRAP EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT. COORDINATE PROVISION OF DISCONNECTING MEANS WITH PACK WRAP MANUFACTURER.
4. ADAPT AND MODIFY EXISTING PACK WRAP EQUIPMENT CONNECTION TO NEW PACK WRAP LOCATION. COORDINATE LOCATION WITH ARCHITECT.

BRUCE ELDON HART
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1/16/2023

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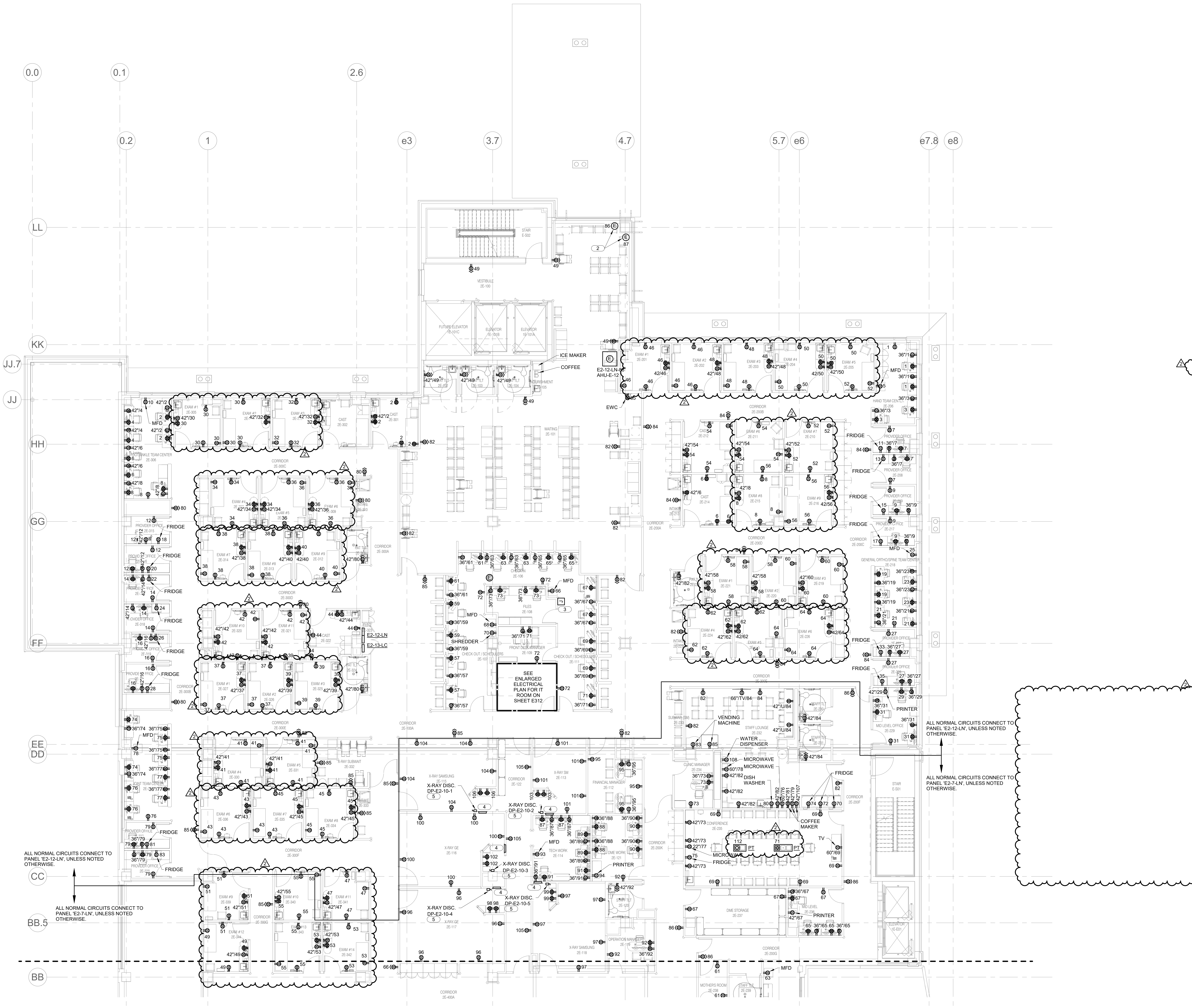
E211B

LEVEL 01 PLAN - POWER - AREA B



1 LEVEL 02 PLAN - POWER - AREA A

1/8" = 1'-0"

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

MECHANICAL EQUIPMENT:

1. REFER TO MECHANICAL AND PLUMBING PLANS FOR LOCATION OF EQUIPMENT AND VARIOUS EQUIPMENT SCHEDULES ON SHEETS M600 THROUGH M602 FOR ADDITIONAL INFORMATION ON EQUIPMENT.
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3. EXHAUST FANS EF-15 AND EF-16 SHALL BE CONNECTED TO NEW PANEL 'E3-4-LN'.
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6. EXISTING EXHAUST FAN EF-4 IS BEING REMOVED.
7. VARIOUS FAN COIL UNITS, CABINET HEATERS, UNIT HEATERS AND AIR CURTAIN SHALL BE SERVED BY NEAREST 120/208V OR 277/480V NORMAL POWER PANEL.

BRANCH CIRCUIT NOTES:

1. ALL CRITICAL CIRCUITS SHALL BE CONNECTED TO NEW PANEL 'E2-13-LC', UNLESS NOTED OTHERWISE.

KEYNOTES: #

2

1. NOT USED.
2. MOTORIZED SHADE POWER. PROVIDE ALL MATERIAL NECESARY FOR COMPLETE INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. PROVIDE CONDUIT AND WIRING TO CONTROL STATION.
3. MOTORIZED SHADE CONTROL STATION. FIELD VERIFY EXACT LOCATION WITH OWNER AND ARCHITECT.
4. RECESSED PANEL FURNISHED WITH XRAY EQUIPMENT. EXACT LOCATION OF PANEL TO BE COORDINATE WITH XRAY VENDOR.
5. COORDINATE WIRE, CONDUIT, AND OCPD SIZE WITH X-RAY EQUIPMENT PROVIDED.

BRUCE ELDON HART
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1/16/2023

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E212A

LEVEL 02 PLAN - POWER - AREA A

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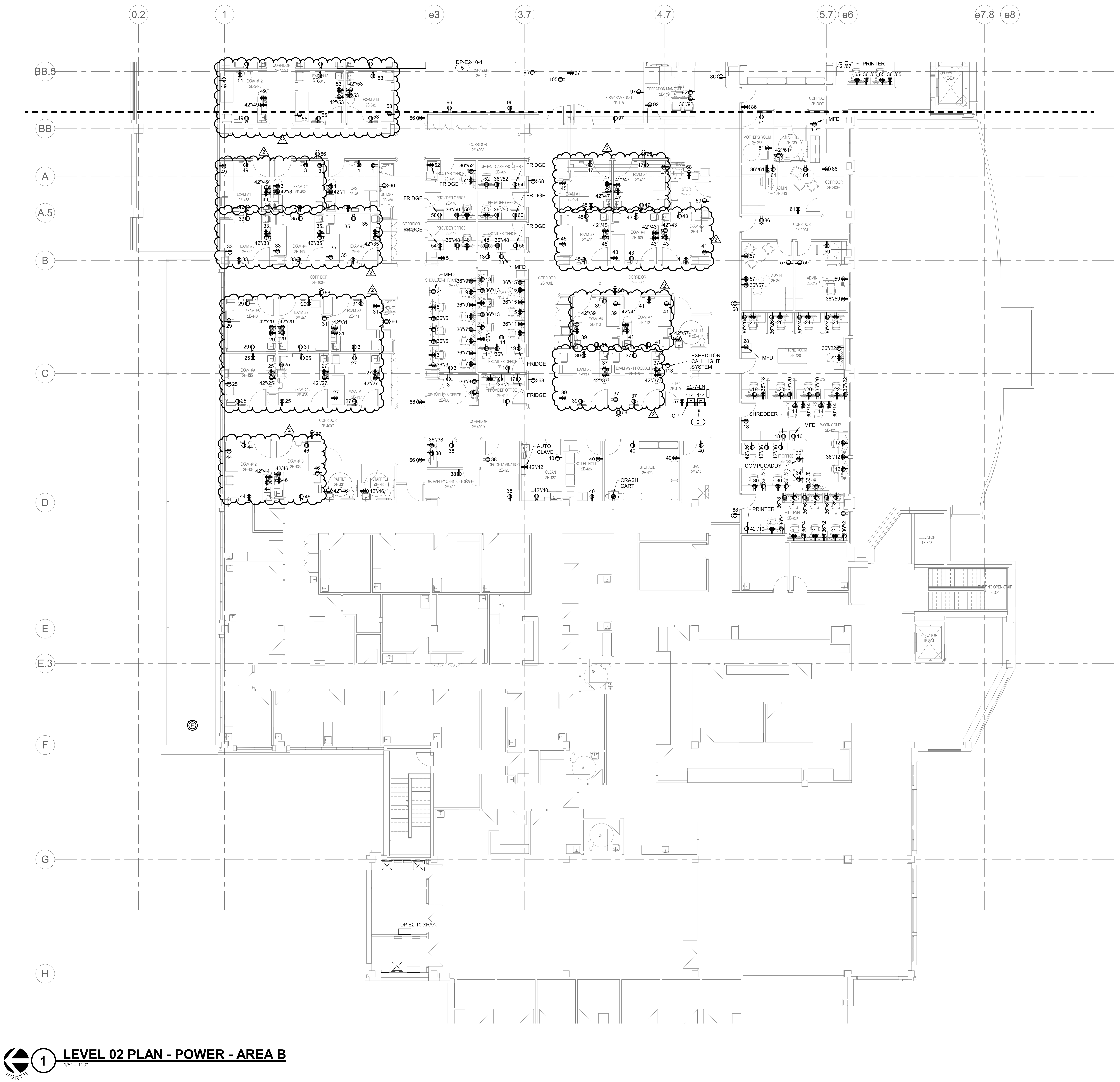

1 LEVEL 02 PLAN - POWER - AREA B

1/8" = 1'-0"

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
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3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

MECHANICAL EQUIPMENT:

1. REFER TO MECHANICAL AND PLUMBING PLANS FOR LOCATION OF EQUIPMENT AND VARIOUS EQUIPMENT SCHEDULES ON SHEETS M600 THROUGH M602 FOR ADDITIONAL INFORMATION ON EQUIPMENT.
2. AHU-E-8, AHU-E-9, LAB AIR COMPRESSOR, DUPLEX CONDENSATE PUMP, EXHAUST FANS EF-17 AND EF-18, AND TWO CONDENSING UNITS FURNISHED WITH I.T. IN-ROW COOLERS BY EC SHALL BE CONNECTED TO NEW DISTRIBUTION PANEL 'DP-E1-32-HA'.
3. EXHAUST FANS EF-15 AND EF-16 SHALL BE CONNECTED TO NEW PANEL 'E3-4-LN'.
4. EXISTING EXHAUST FANS EF-10 AND EF-11 ARE BEING REPLACED AND RELOCATED TO NEW HIGHER ROOF. NEW FANS SHALL BE RECONNECTED TO EXISTING CIRCUITS SERVING THEM - EXTEND CIRCUITS AS REQUIRED.
5. EXISTING EXHAUST FANS EF-1, 2, 3, 5, 6, 7, 8 AND 9 ARE BEING REPLACED IN SAME LOCATION. EXISTING CIRCUIT SERVING EACH SHALL BE RECONNECTED TO NEW FAN.
6. EXISTING EXHAUST FAN EF-4 IS BEING REMOVED.
7. VARIOUS FAN COIL UNITS, CABINET HEATERS, UNIT HEATERS AND AIR CURTAIN SHALL BE SERVED BY NEAREST 120/208V OR 277/480V NORMAL POWER PANEL.

BRANCH CIRCUIT NOTES:

1. ALL NORMAL CIRCUITS SHALL BE CONENCTED TO NEW PANEL 'E2-7-LN', UNLESS NOTED OTHERWISE.
2. ALL CRITICAL CIRCUITS SHALL BE CONNECTED TO NEW PANEL 'E2-13-LC', UNLESS NOTED OTHERWISE. REFER TO SHEET E212A FOR LOCATION OF PANEL 'E2-13-LC'.

2

KEYNOTES: #

1. NOT USED.
2. VAV BOX POWER SUPPLY CABINET LOCATED IN ELEC 2E-419.

1/16/2023

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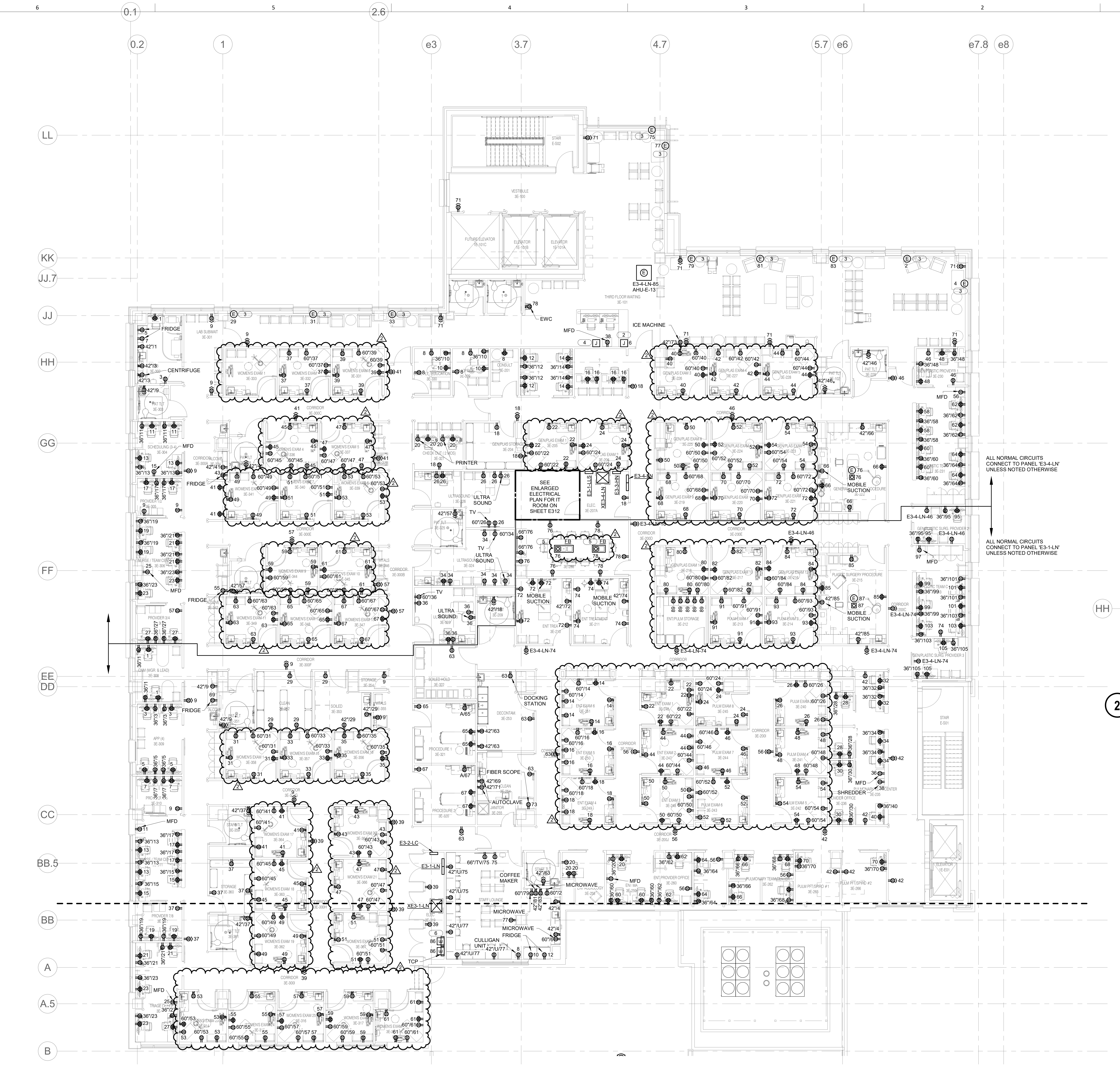
E212B

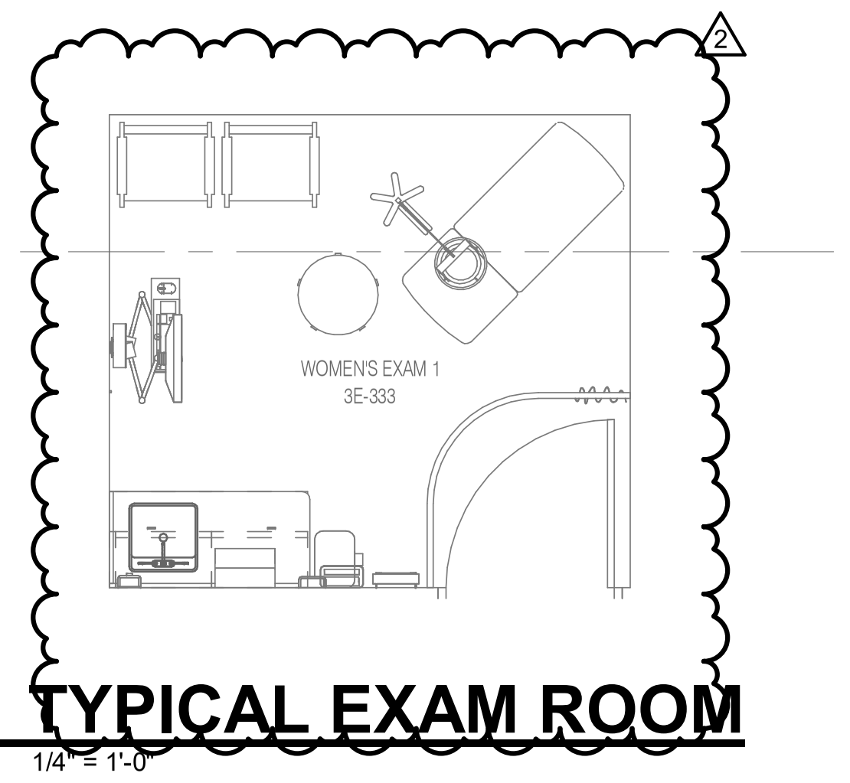
LEVEL 02 PLAN - POWER - AREA B

BIM 360://3-21037 SLE - ASC Expansion - Revit 2021/MEP21_21006783.00_SLH-East ASC Addition_C.rvt



1 LEVEL 03 PLAN - POWER - AREA A

1/8" = 1'-0"



2 TYPICAL EXAM ROOM

1/4" = 1'-0"

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEETS MPE234A AND MPE234B FOR ELECTRICAL REQUIREMENTS ON ROOF PLANS.
4. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
5. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
6. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
7. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.

MECHANICAL EQUIPMENT:

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2. AHU-E-8, AHU-E-9, LAB AIR COMPRESSOR, DUPLEX CONDENSATE PUMP, EXHAUST FANS EF-17 AND EF-18, AND TWO CONDENSING UNITS FURNISHED WITH I.T. IN-ROW COOLERS BY EC SHALL BE CONNECTED TO NEW DISTRIBUTION PANEL 'DP-E1-32-HA'.
3. EXHAUST FANS EF-15 AND EF-16 SHALL BE CONNECTED TO NEW PANEL 'E3-4-LN'.
4. EXISTING EXHAUST FANS EF-10 AND EF-11 ARE BEING REPLACED AND RELOCATED TO NEW HIGHER ROOF. NEW FANS SHALL BE RECONNECTED TO EXISTING CIRCUITS SERVING THEM - EXTEND CIRCUITS AS REQUIRED.
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6. EXISTING EXHAUST FAN EF-4 IS BEING REMOVED.
7. VARIOUS FAN COIL UNITS, CABINET HEATERS, UNIT HEATERS AND AIR CURTAIN SHALL BE SERVED BY NEAREST 120/208V OR 277/480V NORMAL POWER PANEL.

2 **KEYNOTES:** #

1. NOT USED.
2. PROVIDE FLUSH WALL MOUNTED J-BOX FOR OWNER SUPPLIED SYSTEMS FURNITURE. MAKE POWER CONNECTION TO FURNITURE AS REQUIRED.
3. MOTORIZED SHADE POWER. PROVIDE ALL MATERIAL NECESARY FOR COMPLETE INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. PROVIDE CONDUIT AND WIRING TO CONTROL STATION.
4. MOTORIZED SHADE CONTROL STATION. FIELD VERIFY EXACT LOCATION WITH OWNER AND ARCHITECT.
5. PROVIDE DATA CABLING AND SIZE CONDUIT(S) FROM FLUSH FLOOR COMBINATION POWER/DATA/AUDIO/VISUAL POKE-THROUGH TO NEAREST WALL AND STUB UP INTO ACCESSIBLE CEILING. ROUGH-IN AND CONNECT AS REQUIRED.
6. VAV BOX POWER SUPPLY CABINET LOCATED IN ELEC 3E-319.

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E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

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CONSTRUCTION
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Saint Luke's.
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Date	01/16/2023
Job Number	3-21037
Drawn By	ZMB
Checked By	PLR

Revision

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2	2/10/23	Addendum 2

E213A

LEVEL 03 PLAN - POWER - AREA A

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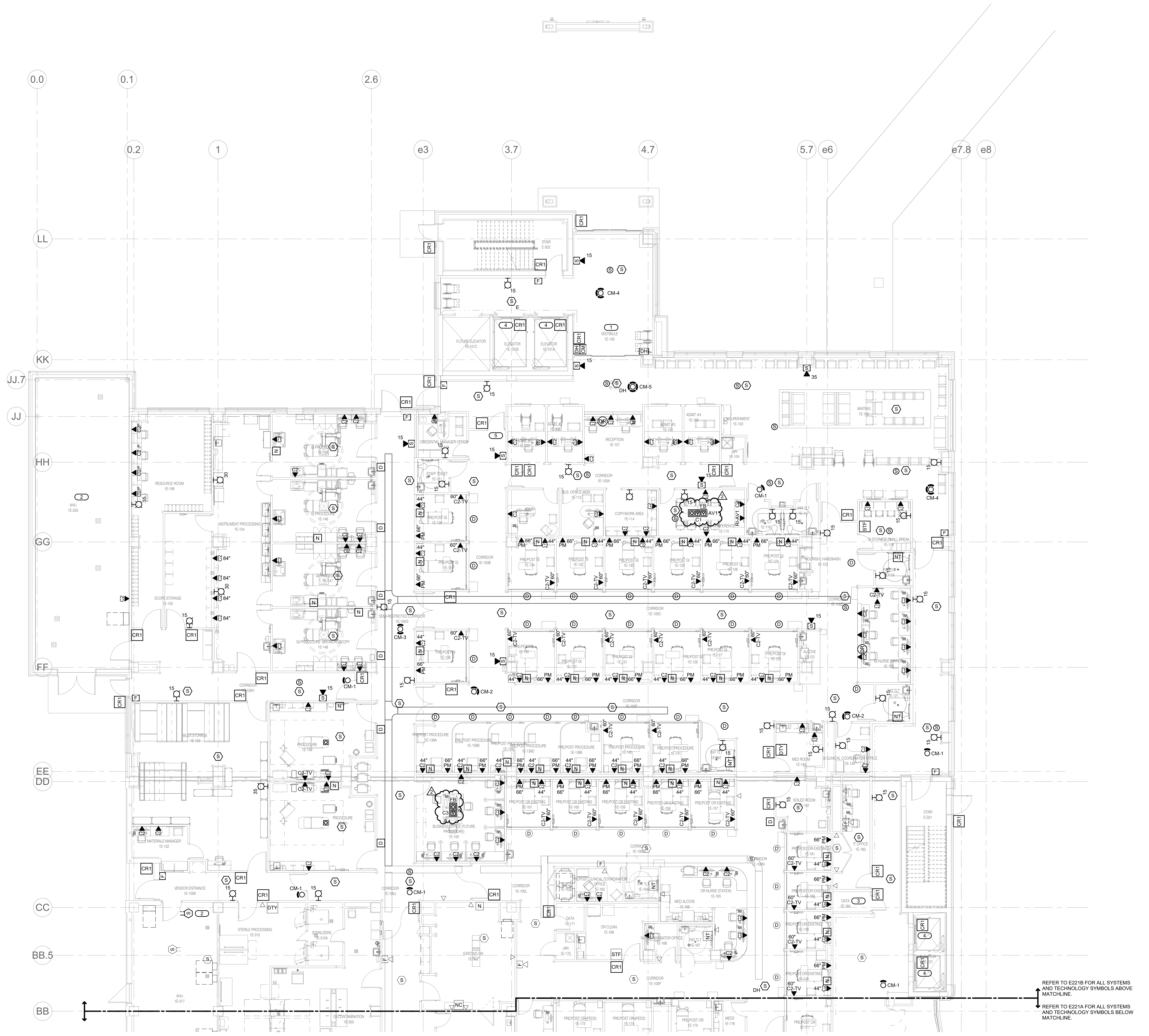

REFER TO E221B FOR ALL SYSTEMS AND TECHNOLOGY SYMBOLS ABOVE MATCHLINE.

REFER TO E221A FOR ALL SYSTEMS AND TECHNOLOGY SYMBOLS BELOW MATCHLINE.

① LEVEL 01 PLAN - SYSTEMS - AREA A

1/8" = 1'-0"

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.
7. SHEETS THAT SHOW TWO AREAS OF A FLOOR WILL CONTAIN OVERLAP OF SYMBOLS. REFER TO MATCHLINE FOR DIRECTIONS AS TO NOT DUPLICATE EQUIPMENT.

KEYNOTES: (#)

1. DOOR HOLDS TO BE POWERED VIA LOW VOLTAGE TRANSFORMER.
2. PROVIDE (1) DUCT SMOKE DETECTOR FOR EACH SUPPLY AND RETURN AIR BRANCHES THAT STEM FROM NEW AIR HANDLER UNIT.
3. EXISTING RACK AND IT EQUIPMENT SHALL BE RELOCATED TO NEW IT CLOSET. COORDINATE RELOCATION OF EQUIPMENT WITH OWNER AND REFER TO ARCHITECT'S PHASING PLAN.
4. INSTALL CARD READER INSIDE ELEVATOR FOR FLOOR ACCESS. COORDINATE ACCESS REQUIREMENTS WITH OWNER.
5. DOOR HOLD RELEASE BUTTON LOCATED AT RECEPTION. BUTTON SERVES DOORWAY TO PRE/POST GI CORRIDOR.

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1/16/2023

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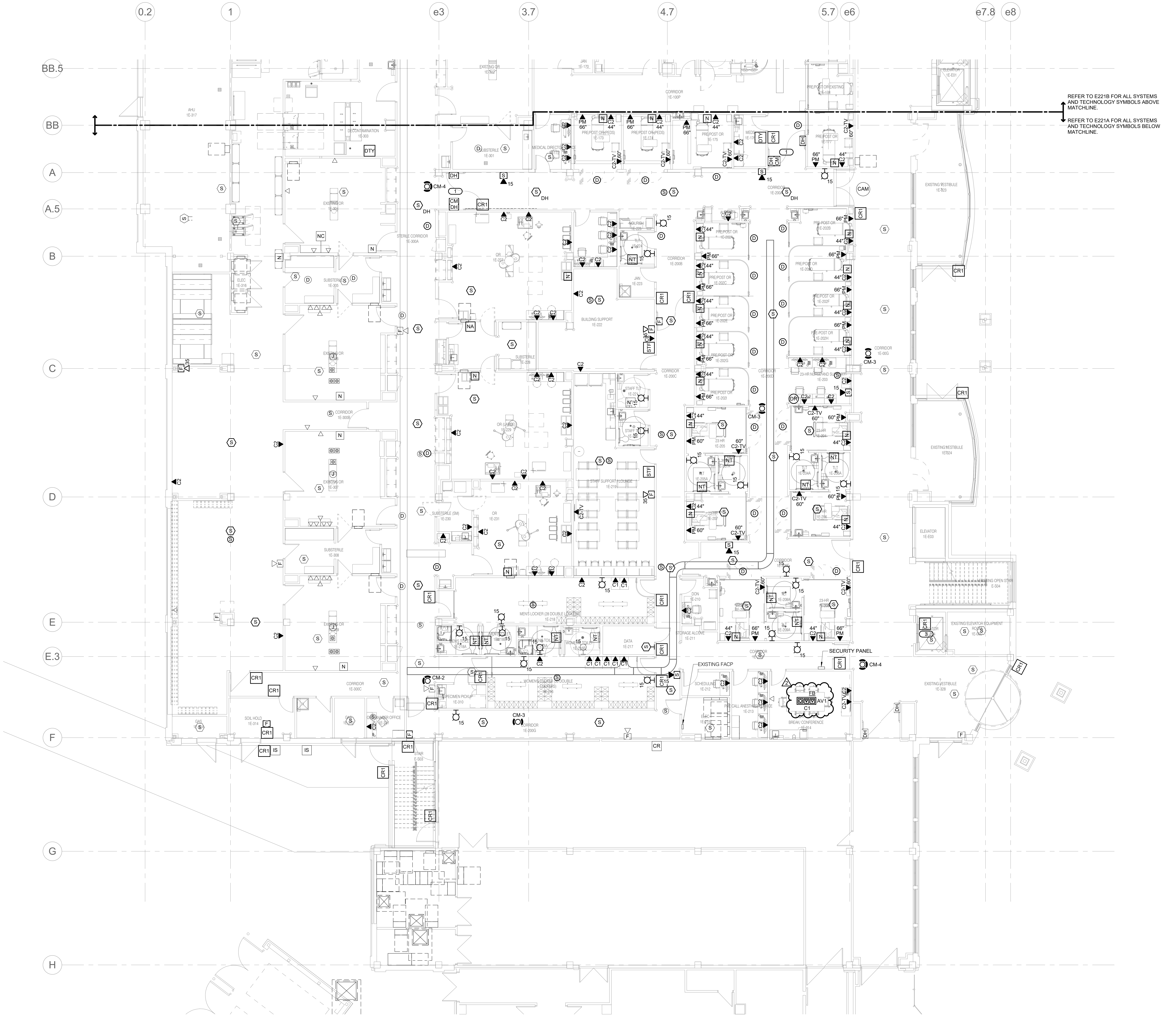
E221A

LEVEL 01 PLAN - SYSTEMS - AREA A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REFER TO E221B FOR ALL SYSTEMS AND TECHNOLOGY SYMBOLS ABOVE MATCHLINE.
REFER TO E221A FOR ALL SYSTEMS AND TECHNOLOGY SYMBOLS BELOW MATCHLINE.
SECURITY PANEL
EXISTING FACP
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CM-3
CM-4
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DTY
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C2
C2-TV
PM
NT
DH
DR
15
44"
60"
66"

LEVEL 01 PLAN - SYSTEMS - AREA B

1/8" = 1'-0"

NORTH

GENERAL SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.
7. SHEETS THAT SHOW TWO AREAS OF A FLOOR WILL CONTAIN OVERLAP OF SYMBOLS. REFER TO MATCHLINE FOR DIRECTIONS AS TO NOT DUPLICATE EQUIPMENT.

KEYNOTES: #

1. DOOR HOLDS TO BE POWERED VIA LOW VOLTAGE TRANSFORMER.
2. DUCT DETECTOR TO BE PLACED ON NEW SA DUCT PRIOR TO FIRE SMOKE DAMPER.
3. INSTALL CARD READER INSIDE ELEVATOR FOR FLOOR ACCESS. COORDINATE ACCESS REQUIREMENTS WITH OWNER.

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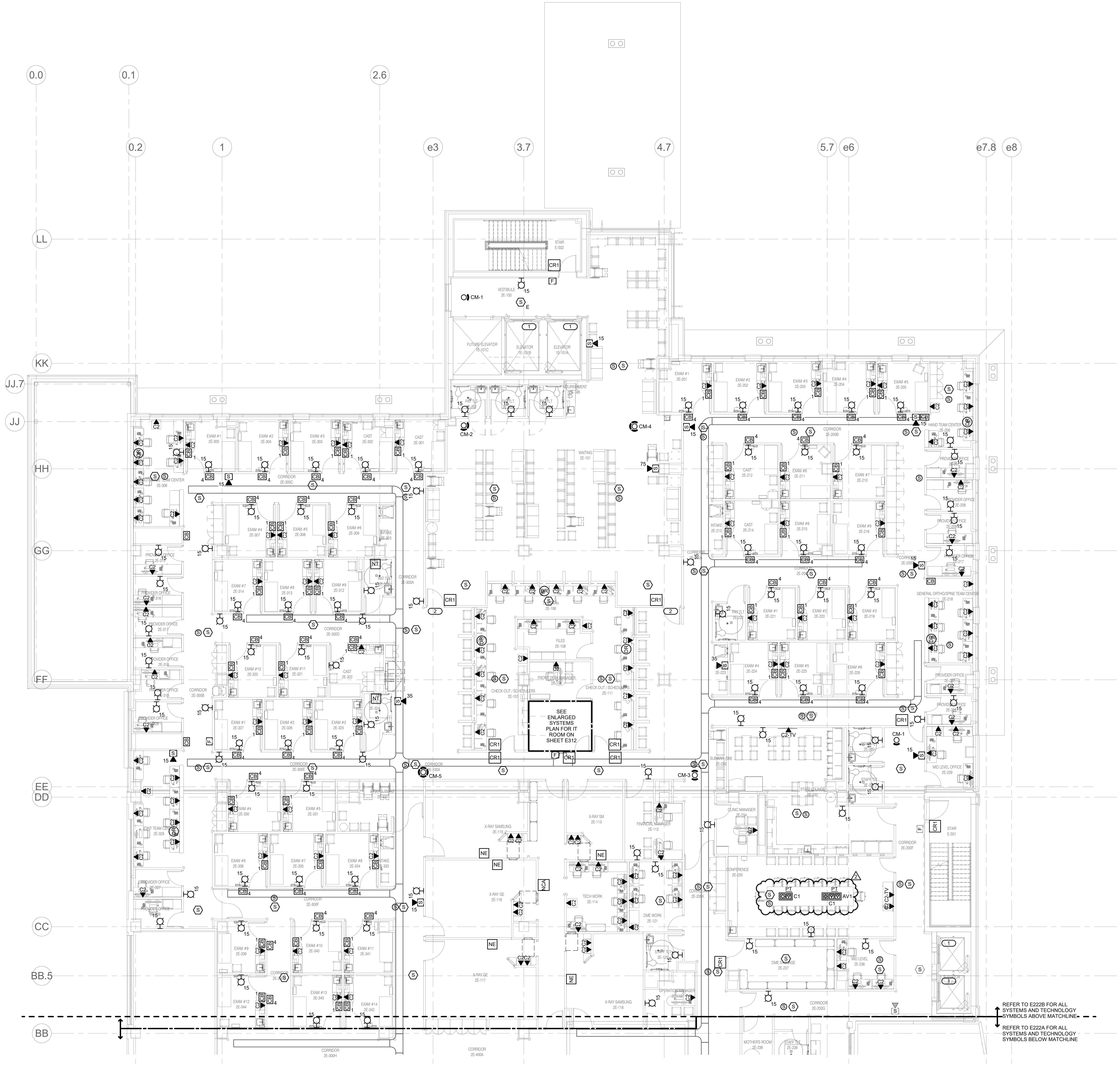
E221B

LEVEL 01 PLAN - SYSTEMS - AREA B



REFER TO E222B FOR ALL SYSTEMS AND TECHNOLOGY SYMBOLS ABOVE MATCHLINE

REFER TO E222A FOR ALL SYSTEMS AND TECHNOLOGY SYMBOLS BELOW MATCHLINE

1 LEVEL 02 PLAN - SYSTEMS - AREA A

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.
7. SHEETS THAT SHOW TWO AREAS OF A FLOOR WILL CONTAIN OVERLAP OF SYMBOLS. REFER TO MATCHLINE FOR DIRECTIONS AS TO NOT DUPLICATE EQUIPMENT.

KEYNOTES: #

1. REFER TO SHEET E221A FOR ELEVATOR CARD READER LOCATION AND ACCESS REQUIREMENTS.
2. DOOR HOLD RELEASE BUTTON LOCATED AT RECEPTION. BUTTON SERVES DOORWAYS TO EXAM AREAS.

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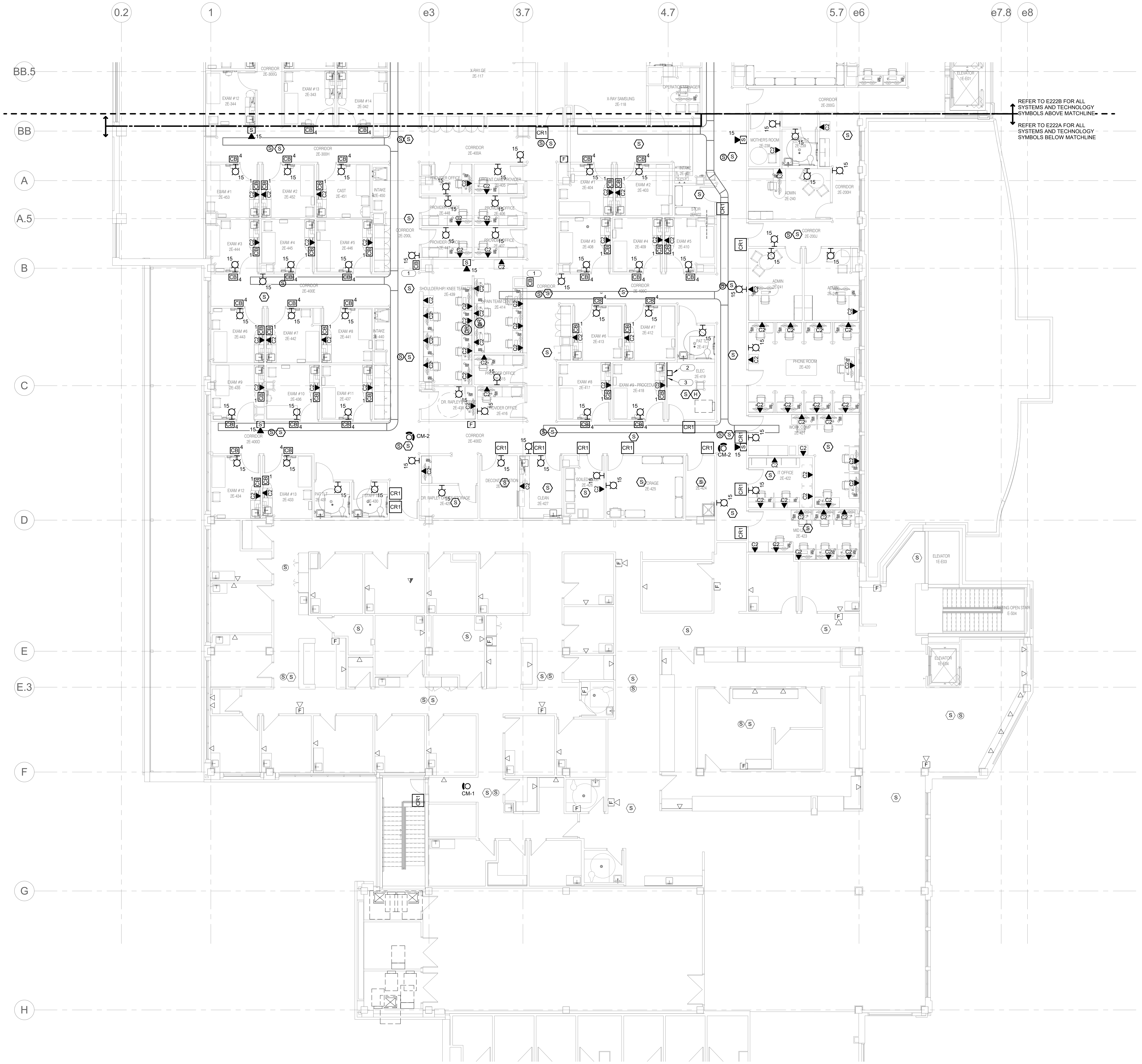
E222A

LEVEL 02 PLAN - SYSTEMS - AREA A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CM-1
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C2
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REFER TO E222B FOR ALL SYSTEMS AND TECHNOLOGY SYMBOLS ABOVE MATCHLINE
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1 LEVEL 02 PLAN - SYSTEMS - AREA B

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.
7. SHEETS THAT SHOW TWO AREAS OF A FLOOR WILL CONTAIN OVERLAP OF SYMBOLS. REFER TO MATCHLINE FOR DIRECTIONS AS TO NOT DUPLICATE EQUIPMENT.

KEYNOTES: (#)

1. FURNISH AND INSTALL MASTER STATION FOR CALL LIGHT SYSTEM. COORDINATE WITH OWNER FOR BUTTON QUANITITY.
2. FURNISH EXPEDITOR CALL LIGHT ANNUCIATOR BOX. BOX SHALL BE MOUNTED BELOW FIRE RETARDANT PLYWOOD.
3. 3/4" FIRE RETARDANT PLYWOOD, INSTALL AT 3'-6" AFF TO 7'-6" AFF, PAINT WITH TWO COATS TO MATCH ROOM. LEAVE FIRE RATING SEALS UNPAINTED.

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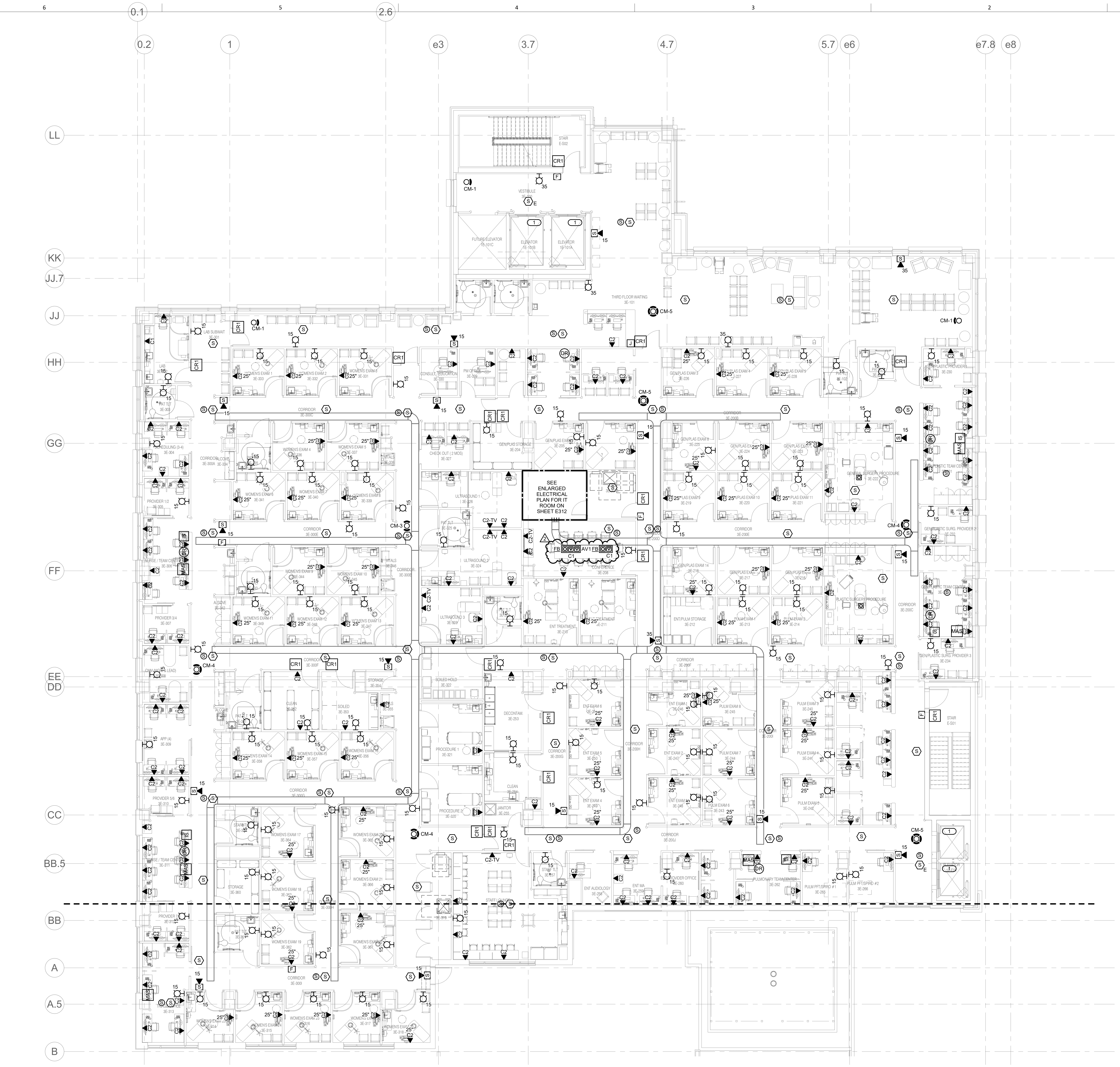
E222B

LEVEL 02 PLAN - SYSTEMS - AREA B



1 LEVEL 03 PLAN - SYSTEMS - AREA A

1/8" = 1'-0"

NORTH

SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
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3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL RISER DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.
7. SHEETS THAT SHOW TWO AREAS OF A FLOOR WILL CONTAIN OVERLAP OF SYMBOLS. REFER TO MATCHLINE FOR DIRECTIONS AS TO NOT DUPLICATE EQUIPMENT.
8. ALL CABLE TRAY SHOWN TO BE 18"Wx4"D WIRE MESH TYPE CABLE TRAY ABOVE CEILING.

KEYNOTES: #

1. REFER TO SHEET E2211A FOR ELEVATOR CARD READER LOCATION AND ACCESS REQUIREMENTS.

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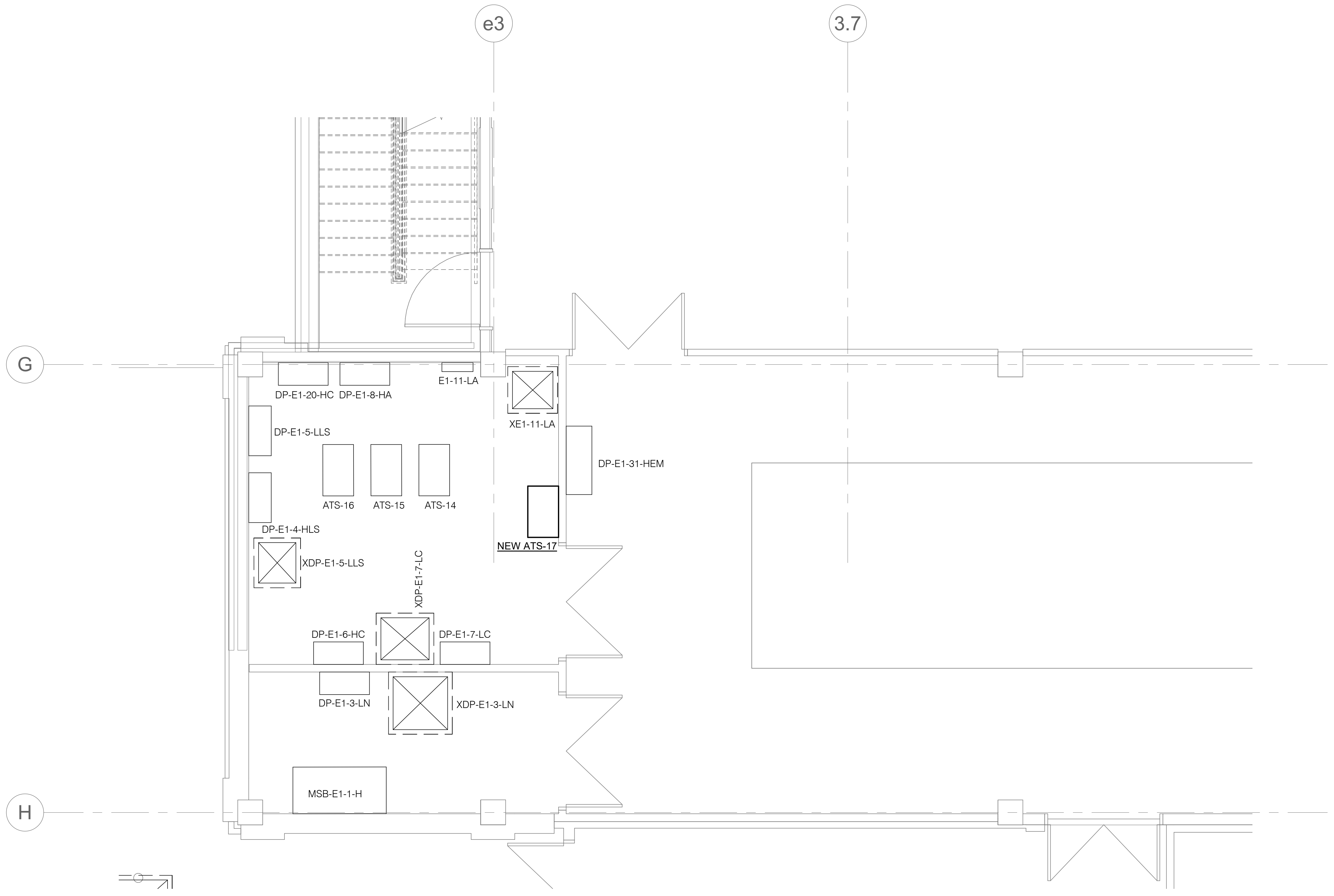
E223A

LEVEL 03 PLAN - SYSTEMS - AREA A

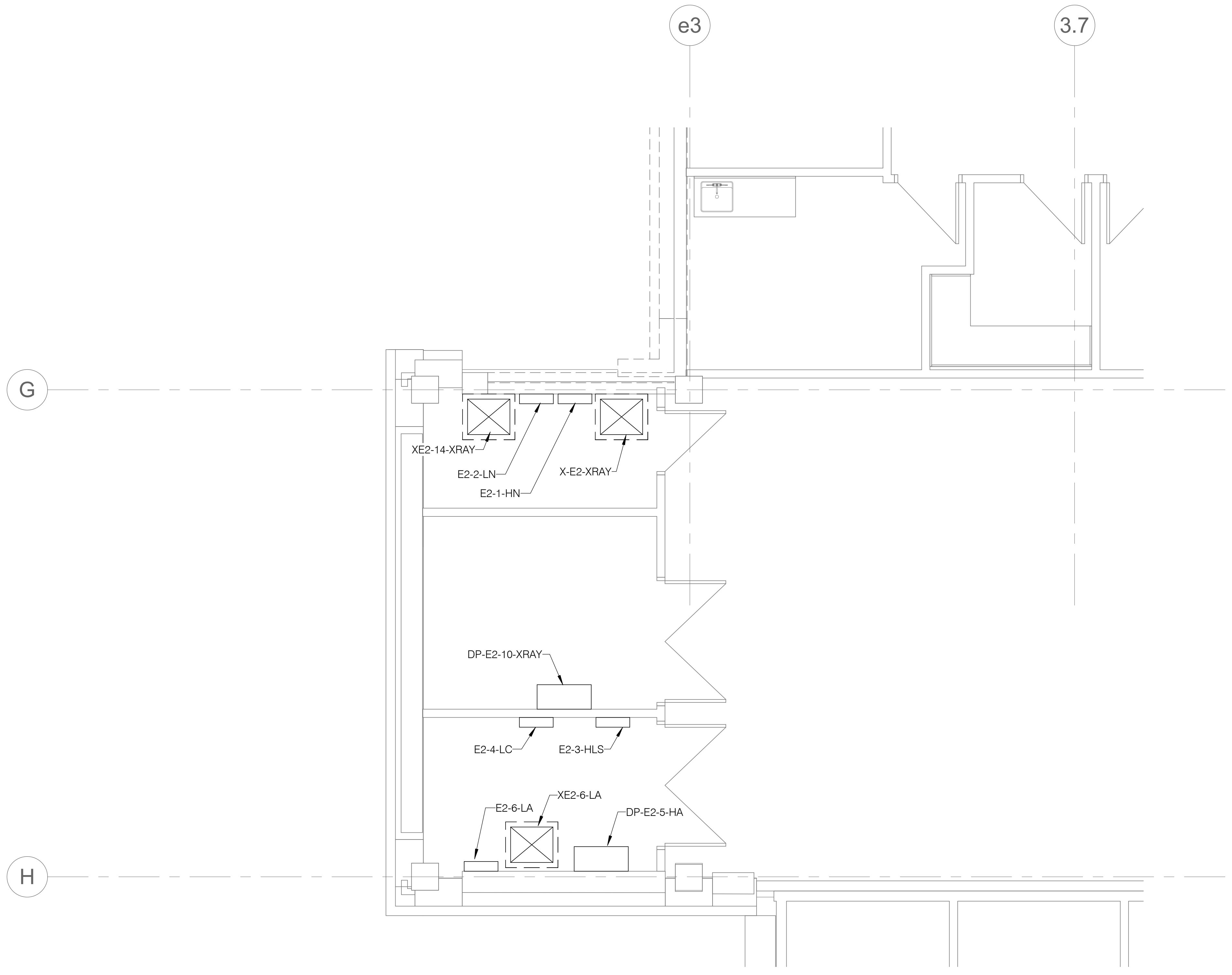
SHEET NOTES:

1. VERIFY DIMENSIONS FROM ARCHITECTURAL DRAWINGS AND PHYSICALLY AT SITE. READ ALL SPECIFICATIONS, REVIEW ALL DRAWINGS INCLUDING THOSE OF OTHER TRADES. ALL WORK SHALL BE COORDINATED WITH ALL TRADES ON THIS PROJECT.
2. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
3. REFER TO SHEET E400 FOR ELECTRICAL DETAILS.
4. REFER TO SHEET E500 FOR ELECTRICAL ONE LINE DIAGRAM.
5. REFER TO SHEET E600 FOR ELECTRICAL SCHEDULES.
6. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS SHOWN ON PLANS.



1 LEVEL 01 PLAN - ELECTRICAL - ENLARGED MECHANICAL ROOM

1/4" = 1'-0"



2 LEVEL 02 PLAN - ELECTRICAL - ENLARGED MECHANICAL ROOM

1/4" = 1'-0"

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E311

LEVEL 01 PLAN - ENLARGED MECHANICAL ROOM

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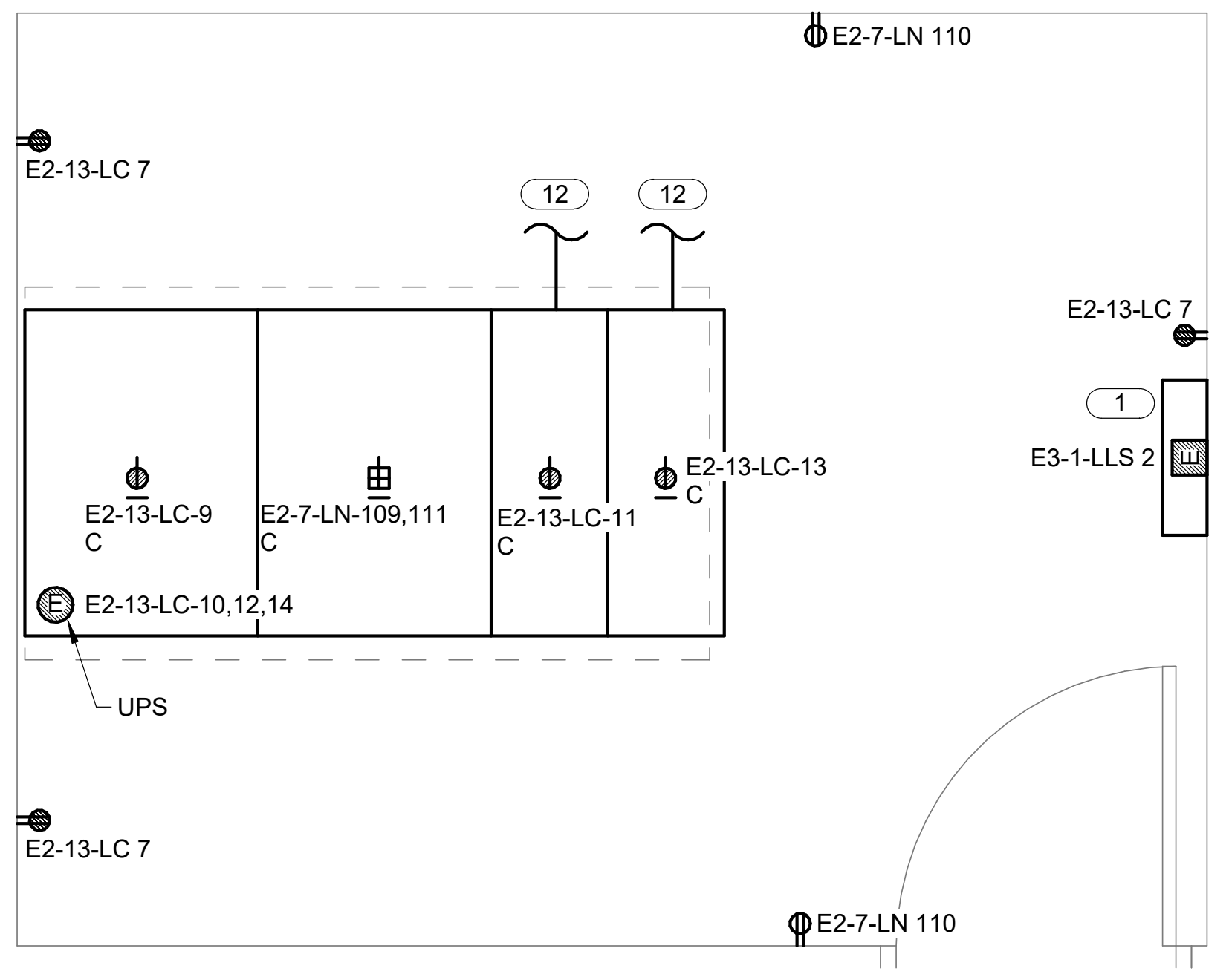
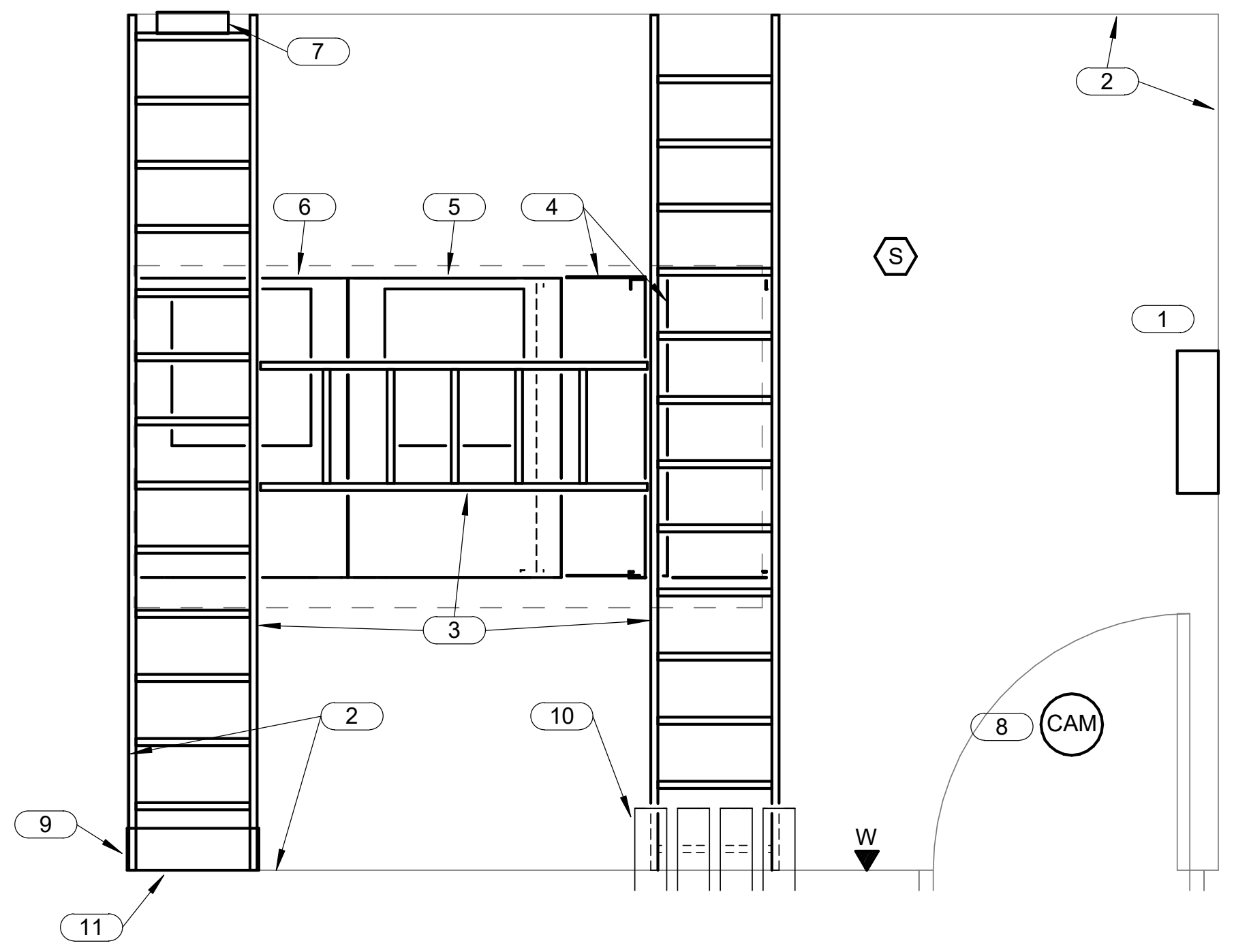


2 LEVEL 02 PLAN - IT ROOM - ENLARGED POWER PLAN

1/2" = 1'-0"

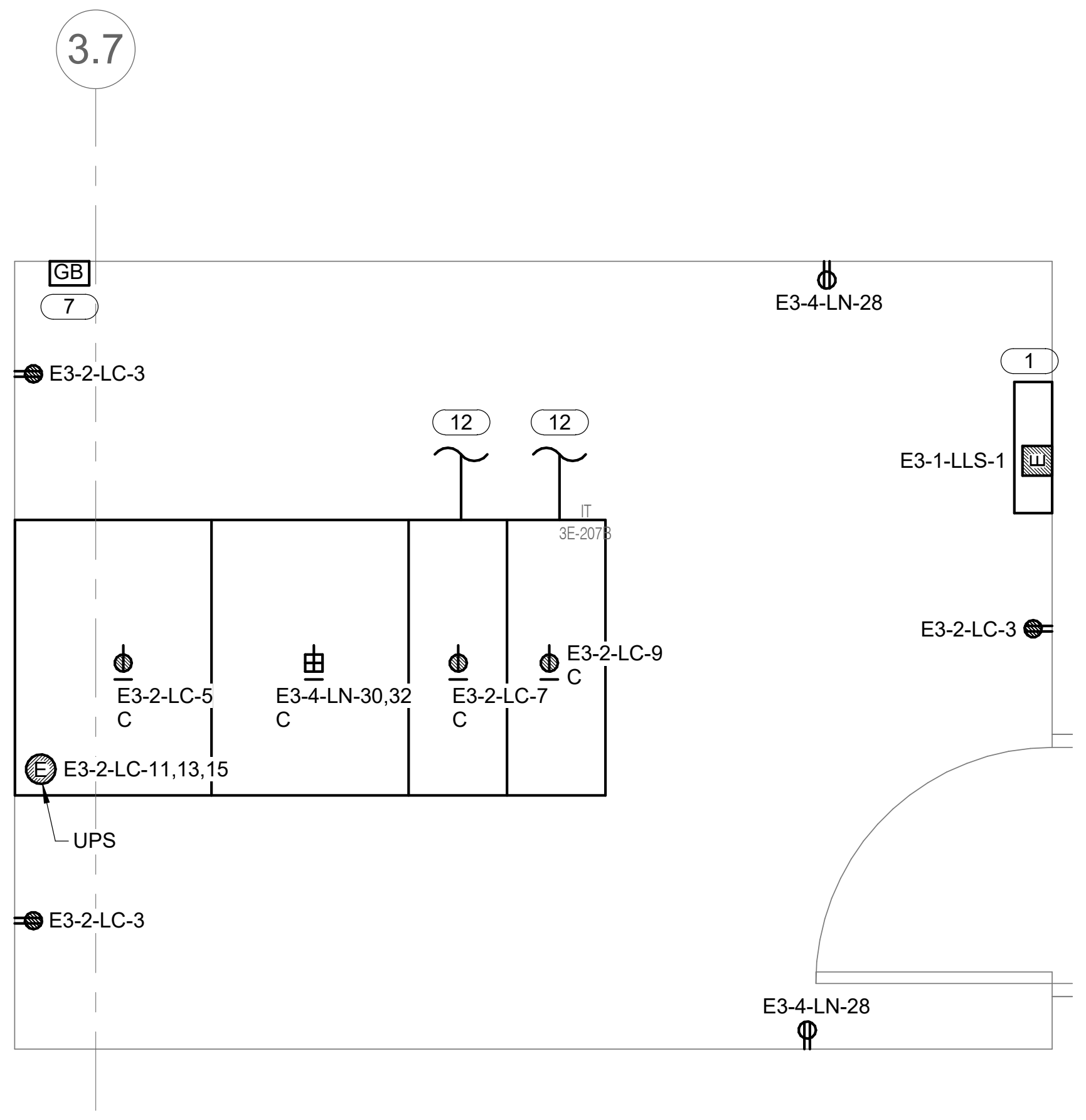
NORTH



1 LEVEL 02 PLAN - IT ROOM - ENLARGED SYSTEM PLAN

1/2" = 1'-0"

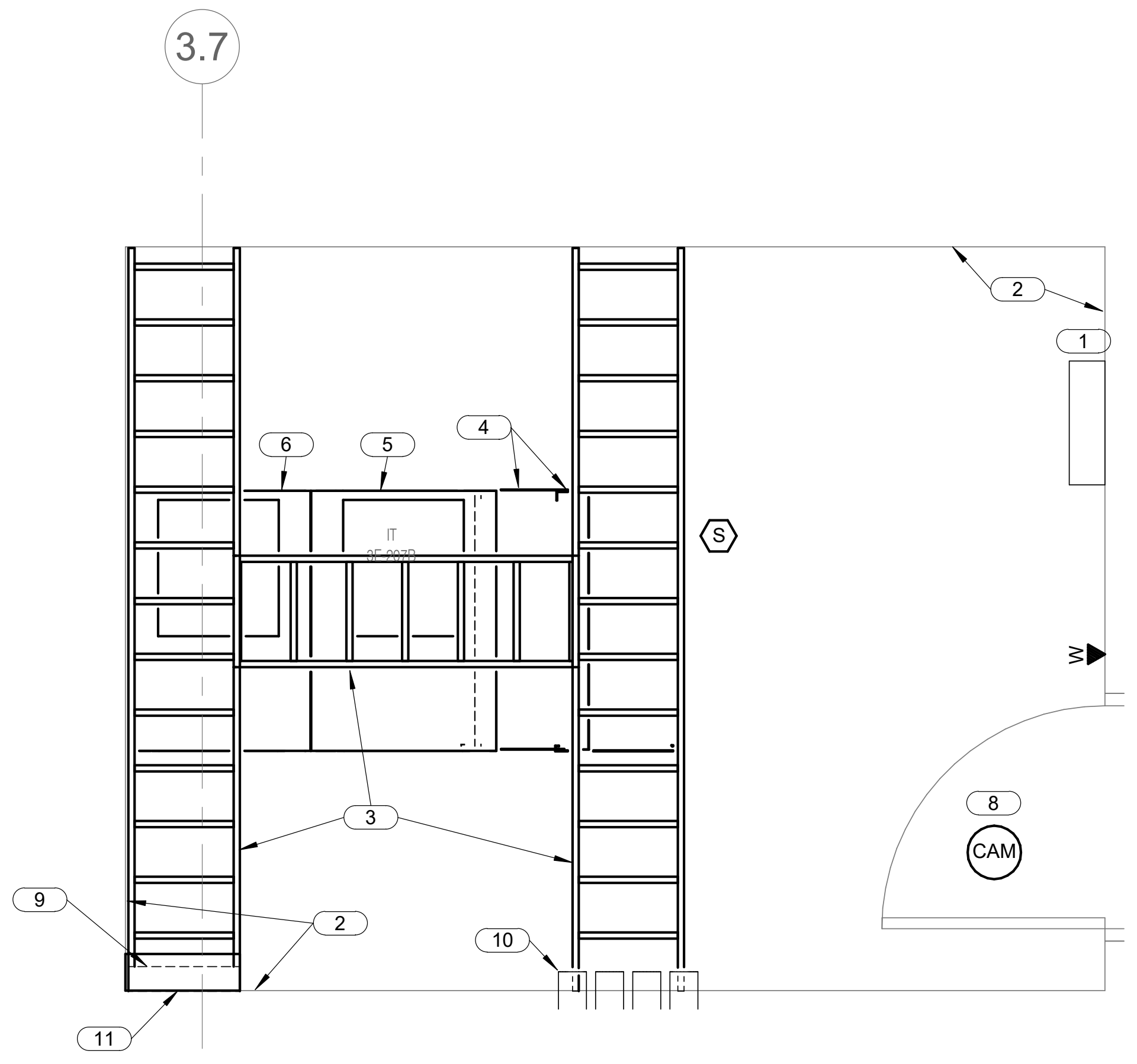
NORTH



3 LEVEL 03 - IT ROOM - ENLARGED POWER PLAN

1/2" = 1'-0"

NORTH



4 LEVEL 03 - IT ROOM - ENLARGED SYSTEMS PLAN

1/2" = 1'-0"

NORTH

SHEET NOTES:

1. REFER TO ELECTRICAL COVERSHEET E000 FOR SYMBOLS LIST, GENERAL ELECTRICAL NOTES AND ELECTRICAL INSTALLATION NOTES.
2. REFER TO RACK DETAIL 1/E402 FOR MORE INFORMATION.
3. REFER TO SHEET E403 FOR STRUCTURED CABLING ELEVATIONS AND DETAILS.
4. ALL CABINETS TO BE 42" APC NETSHELTER TYPE SX-42U CABINETS, UNLESS OTHERWISE NOTED, AS DISTRIBUTED BY ELECTRONIC SUPPLY COMPANY. COORDINATE EXACT LOCATIONS OF CABINETS WITH OWNER.
5. ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL ALL APC CABINETS, UPS, AND ALL APC PDU'S.
6. THE HORIZONTAL CROSS-CONNECT FOR DATA CIRCUITS SHALL CONSIST OF PATCH CORDS FROM PATCH PANELS TO THE NETWORK EQUIPMENT WITH THE SAME ADJACENT RACKS. THE HORIZONTAL CROSS-CONNECT SHALL BE AUGMENTED WITH HORIZONTAL MANAGEMENT HARDWARE, BY THE DATA/VOICE CONTRACTOR, AND UTILIZED INCLUDED/BUILT-IN VERTICAL MANAGEMENT HARDWARE, BOTH FRONT AND REAR TO PROPERLY DRESS HORIZONTAL CABLES AND PATCH CORDS. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
7. DATA/VOICE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY PATCH CORDS WITHIN TELECOMMUNICATION ROOMS, EQUIPMENT ROOMS, AND WORKSTATION AREAS. CORDS SHOULD TYPICALLY BE 10'-0" FOR ALL WORKSTATION AREAS. PROVIDE VARIED LENGTHS OF DATA AND VOICE PATCH CORDS AT EQUIPMENT CABINETS TO MINIMIZE SLACK AND CABLE MANAGEMENT FILL. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
8. ELECTRICAL CONTRACTOR SHALL PROVIDE TELECOM GROUNDING BUSBAR (TGB), AND COORESPONDING BONDING CONNECTIONS TO ELECTRCAL PANEL, NEAREST BUILDING STEEL, APC CABINETS, AND LADDER RUNWAY.
9. SUBMIT SHOP DRAWINGS SHOWING THE LOCATION OF NEW OPENING/CORED HOLES ON THE FLOOR FOR REVIEW. DO NOT CORE ANY HOLES UNTIL SHOP DRAWINGS ARE REVIEWED AND APPROVED BY THE STRUCTURAL ENGINEER.
10. BEFORE CORE DRILLING ANY HOLES, LOCATE REBAR IN THE SLAB BY X-RAY OR WITH R-METER. IF REBAR IS ENCOUNTERED WITHIN THE PROPOSED LOCATION OF THE HOLE, THEN EITHER RELOCATE THE HOLE TO MISS REBAR OR IF THE HOLE CANNOT BE RELOCATED, CONTACT STRUCTURAL ENGINEER FOR APPROVAL TO CORING/DRILLING. DO NOT CORE ANY HOLES THROUGH THE BEAM WITHOUT APPROVAL OF STRUCTURAL ENGINEER.

KEYNOTES: (#)

1. DOOR ACCESS CONTROL CABINET.
2. LINE WALL WITH 3/4" FIRE RETARDANT PLYWOOD, INSTALL AT 3'-6" AFF TO 7'-6" AFF, PAINT WITH TWO COATS TO MATCH ROOM. LEAVE FIRE RATING SEALS UNPAINTED.
3. 18" WIDE LADDER RUNWAY, MOUNT AT 7'-0" AFF AND ANCHOR TO WALL STRUCTURE AT MAXIMUM SPANS OF 8'-0". WHERE RUNWAY GOES OVER EQUIPMENT CABINETS, ANCHOR TO EACH CABINET USING MANUFACTURER RECOMMENDED HARDWARE.
4. IN-ROW DX COOLING UNIT.
5. NETWORK PATCH PANEL EQUIPMENT CABINET.
6. VOICE PATCH PANEL EQUIPMENT CABINET.
7. TELECOMMUNICATIONS GROUND BUSBAR (TGB), MOUNT AT 7'-0" AFF.
8. PROVIDE CAMERA WITH TEMPERATURE AND HUMIDITY MONITORING, AT 6'-10" AFF, WITH NETWORK CONNECTION WITHIN ROOM. COORDINATE EXACT LOCATION WITH OWNER IT, REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. PROVIDE 18" WIDE LADDER RUNWAY VERTICALLY ANCHORED TO WALL, FROM 6" AFF UP TO 7'-0" AFF. COORDINATE LOCATION WITH EZ-PATH FLOOR ASSEMBLY.
10. FOUR (4) SERIES 44 EZ-PATH SLEEVES MOUNTE ABOVE CEILING, BY FIRESTOP CONTRACTOR.
11. PROVIDE 6"X18" OPENING IN FLOOR SLAB FOR ONE (1) EZ-PATH ASSEMBLY. ASSEMBLY TO BE FURNISHED AND INSTALLED BY FIRESTOP CONTRACTOR.
12. PROVIDE NEW WIRE AND CONDUIT THAT CONNECTS TO NEW CONDENSING UNITS ON ROOF. REFER TO SHEET M234A FOR MORE INFORMATION.

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CONSTRUCTION
DOCUMENTS

Saint Luke's
EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	01/16/2023
Job Number	3-21037
Drawn By	ZMB
Checked By	PLR

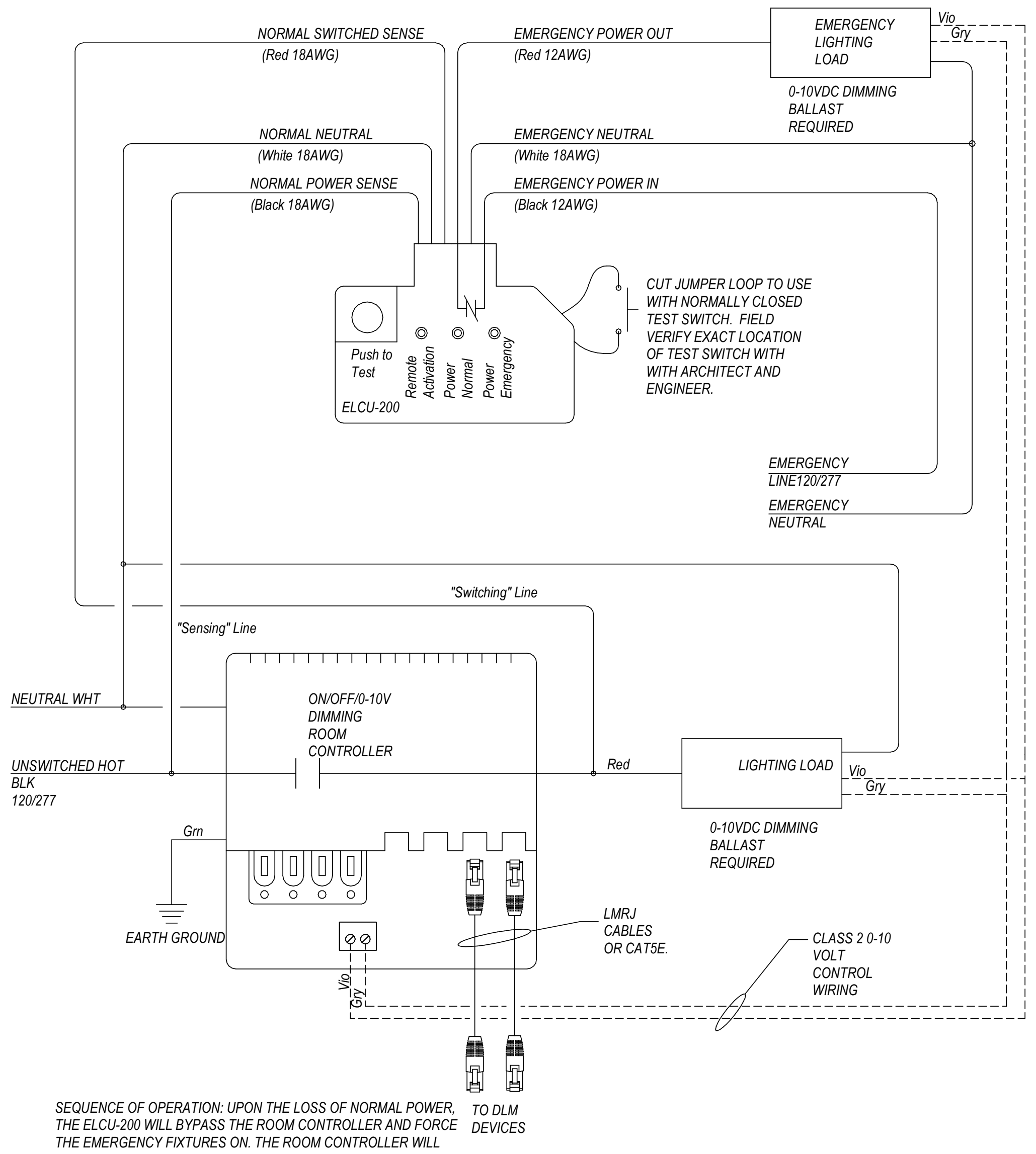
Revision

Number	Date	Description

E312

LEVEL 03 IT ROOM - ELECTRICAL

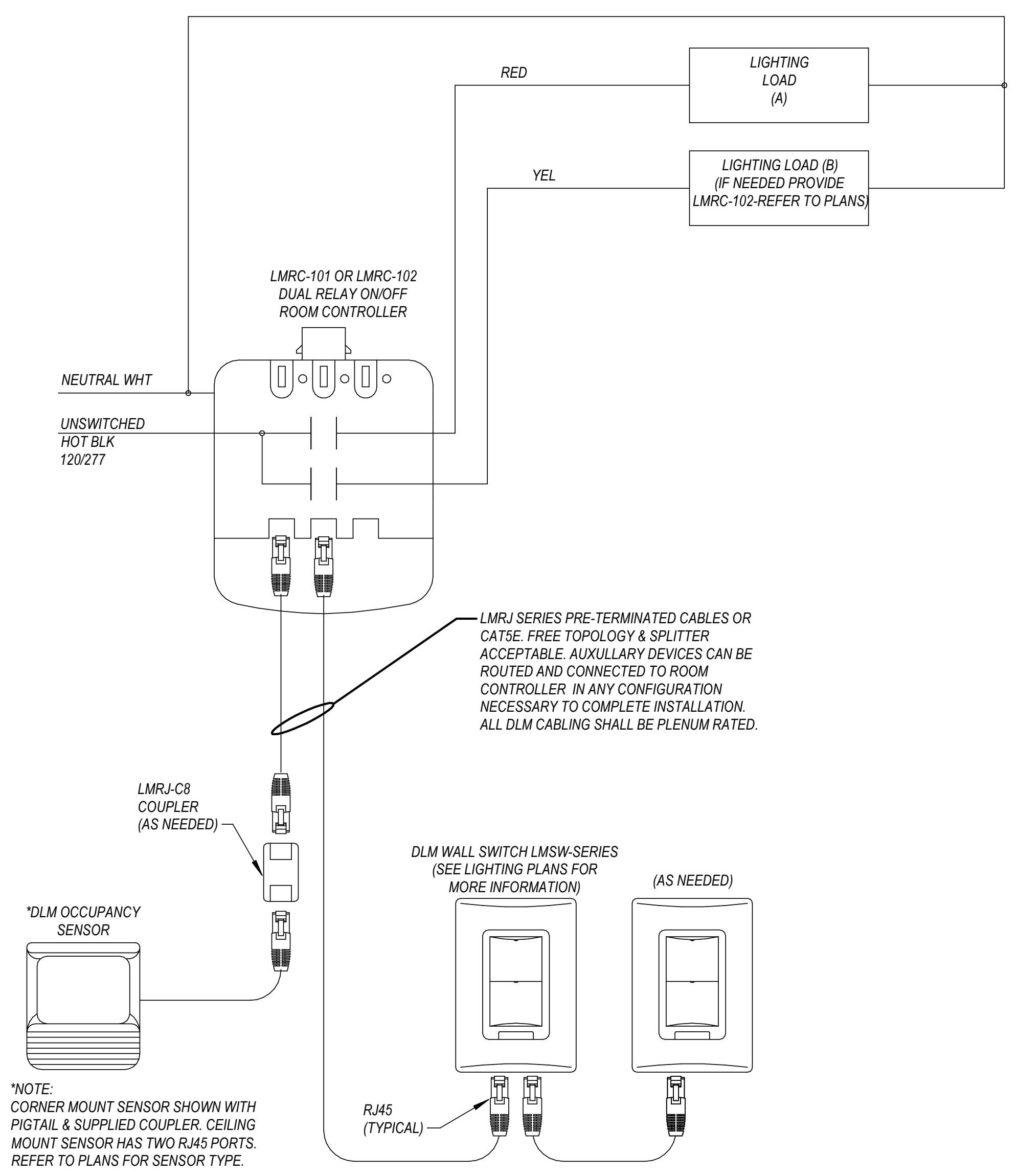
BIM 360://3-21037 SLE - ASC Expansion - Revit 2021/MEP21_21006783.00_SLH-East ASC Addition_C.rvt



SEQUENCE OF OPERATION: UPON THE LOSS OF NORMAL POWER, THE ELCU-200 WILL BYPASS THE ROOM CONTROLLER AND FORCE THE EMERGENCY FIXTURES ON. THE ROOM CONTROLLER WILL FORCE THE DIMMED EMERGENCY FIXTURE TO 100%. THE ELCU-200 IS UL924 LISTED.

1 DETAIL OF LMRC UNIT, DRIVER, AND ELCU-200 EMERGENCY BYPASS UNIT

NO SCALE


RED
LIGHTING LOAD (A)
YEL
LIGHTING LOAD (B) (IF NEEDED PROVIDE LMRC-102-REFER TO PLANS)
LMRC-101 OR LMRC-102 DUAL RELAY ON/OFF ROOM CONTROLLER
NEUTRAL WHT
UNSWITCHED HOT BLK 120/277
LMRJ SERIES PRE-TERMINATED CABLES OR CAT5E. FREE TOPOLOGY & SPLITTER ACCEPTABLE. AUXULLARY DEVICES CAN BE ROUTED AND CONNECTED TO ROOM CONTROLLER IN ANY CONFIGURATION NECESSARY TO COMPLETE INSTALLATION. ALL DLM CABLING SHALL BE PLENUM RATED.
LMRJ-C8 COUPLER (AS NEEDED)
*DLM OCCUPANCY SENSOR
DLM WALL SWITCH LMSW-SERIES (SEE LIGHTING PLANS FOR MORE INFORMATION)
(AS NEEDED)
*NOTE: CORNER MOUNT SENSOR SHOWN WITH PIGTAIL & SUPPLIED COUPLER. CEILING MOUNT SENSOR HAS TWO RJ45 PORTS. REFER TO PLANS FOR SENSOR TYPE.
RJ45 (TYPICAL)

LMRC-101

SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE LMRC-101 DEFAULTS TO MANUAL-ON/AUTOMATIC OFF.

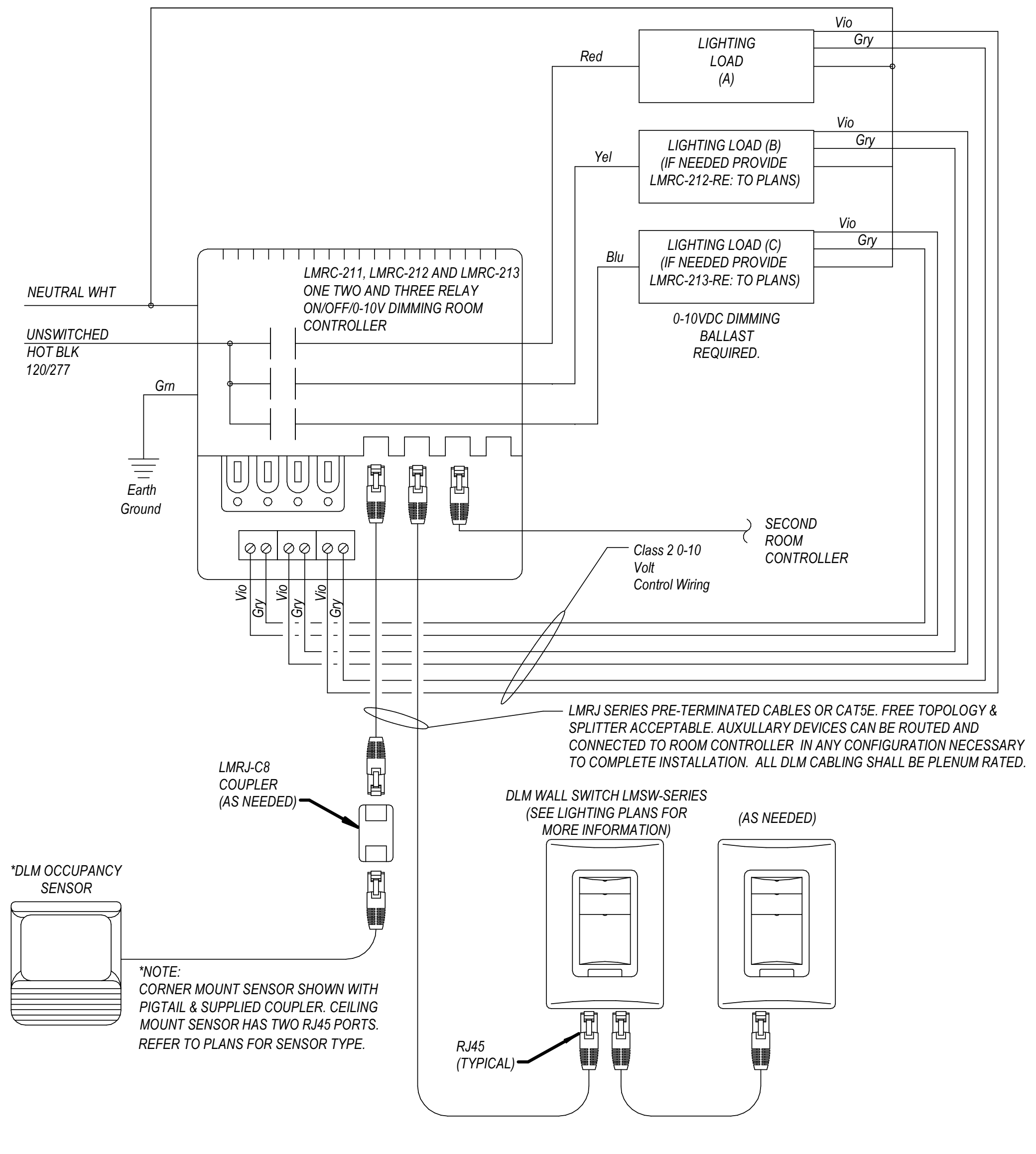
NOTE:
-FURNISH WITH TWO (2) LMCT-100 DIGITAL WIRELESS CONFIGURATION TOOLS.
-PROVIDE COMMISSIONING AND TRAINING FOR ALL INSTALLATIONS.
-PROVIDE ENGRAVING FOR BUTTONS ON ALL INSTALLATIONS.
-ALL SHIELDING FOR OCCUPANCY SENSORS SHALL BE TURNED OVER TO OWNER.

LMRC-102

SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE LMRC-102 DEFAULTS TO MULTI-LEVEL AUTOMATIC-ON/AUTOMATIC OFF. LOAD (A) TURNS ON AUTOMATICALLY AND LOAD (B) DEFAULTS TO MANUAL-ON CONTROL; BOTH LOADS TURN AUTOMATICALLY OFF.

2 DETAIL OF LMRC-101 AND LMRC-102 ROOM CONTROLLER CABLING

NO SCALE


LIGHTING LOAD (A)
Vio
Gry
Red
LIGHTING LOAD (B) (IF NEEDED PROVIDE LMRC-212-RE: TO PLANS)
Yel
LIGHTING LOAD (C) (IF NEEDED PROVIDE LMRC-213-RE: TO PLANS)
Blu
0-10VDC DIMMING BALLAST REQUIRED.
LMRC-211, LMRC-212 AND LMRC-213 ONE TWO AND THREE RELAY ON/OFF/0-10V DIMMING ROOM CONTROLLER
NEUTRAL WHT
UNSWITCHED HOT BLK 120/277
Grn
Earth Ground
SECOND ROOM CONTROLLER
Class 2 0-10 Volt Control Wiring
Vio
Gry
LMRJ SERIES PRE-TERMINATED CABLES OR CAT5E. FREE TOPOLOGY & SPLITTER ACCEPTABLE. AUXULLARY DEVICES CAN BE ROUTED AND CONNECTED TO ROOM CONTROLLER IN ANY CONFIGURATION NECESSARY TO COMPLETE INSTALLATION. ALL DLM CABLING SHALL BE PLENUM RATED.
LMRJ-C8 COUPLER (AS NEEDED)
*DLM OCCUPANCY SENSOR
DLM WALL SWITCH LMSW-SERIES (SEE LIGHTING PLANS FOR MORE INFORMATION)
(AS NEEDED)
*NOTE: CORNER MOUNT SENSOR SHOWN WITH PIGTAIL & SUPPLIED COUPLER. CEILING MOUNT SENSOR HAS TWO RJ45 PORTS. REFER TO PLANS FOR SENSOR TYPE.
RJ45 (TYPICAL)

LMRC-211

SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE LMRC-211 DEFAULTS TO MANUAL-ON/AUTOMATIC OFF.

LMRC-212

SEQUENCE OF OPERATION: IN THIS CONFIGURATION THE LMRC-212 DEFAULTS TO MULTI-LEVEL AUTOMATIC-ON/AUTOMATIC OFF. LOAD (A) TURNS ON AUTOMATICALLY AND LOAD (B) DEFAULTS TO MANUAL-ON CONTROL; BOTH LOADS TURN AUTOMATICALLY OFF.

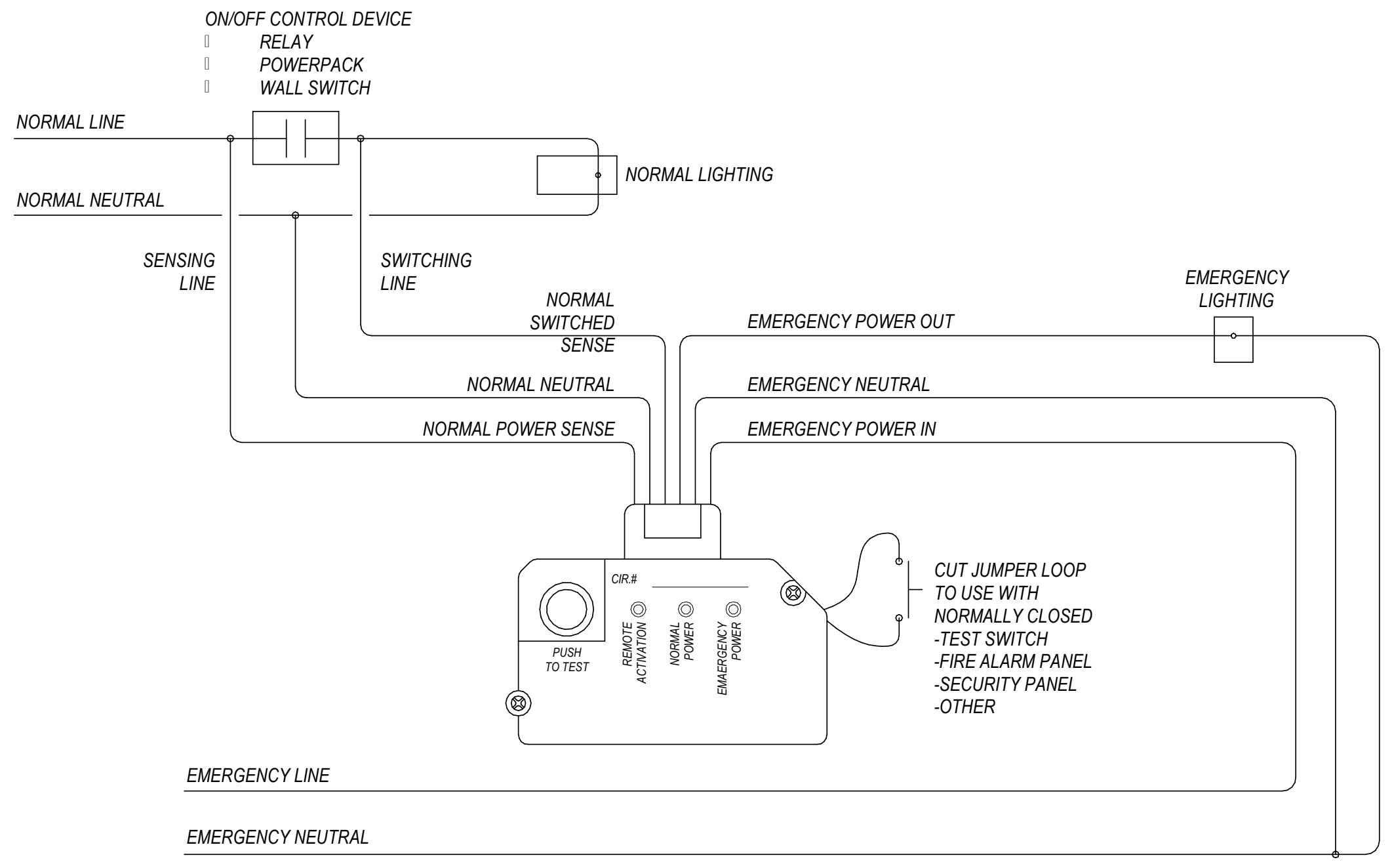
LMRC-213

IN THIS CONFIGURATION THE LMRC-213 SEQUENCE OF OPERATION: DEFAULTS TO MULTI-LEVEL AUTOMATIC-ON/AUTOMATIC-OFF OPERATION. LOAD (A) ON THE LMRC-213 TURNS ON AUTOMATICALLY, WHILE LOAD (B) AND (C) DEFAULTS ENHANCED ROOM TO MANUAL-ON CONTROL; ALL RELAYS TURN OFF AUTOMATICALLY.

NOTE:
-FURNISH WITH TWO (2) LMCT-100 DIGITAL WIRELESS CONFIGURATION TOOLS.
-PROVIDE COMMISSIONING AND TRAINING FOR ALL INSTALLATIONS.
-PROVIDE ENGRAVING FOR BUTTONS ON ALL INSTALLATIONS.
-ALL SHIELDING FOR OCCUPANCY SENSORS SHALL BE TURNED OVER TO OWNER.

3 Lighting Control System Detail - LMRC 200 Series

NO SCALE



4 DETAIL OF AUTOMATIC LIGHTING CONTROL RELAY - NORMAL AND EMERGENCY SWITCHED TOGETHER

NO SCALE

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0 1 2 3
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PROJECT #21006783.00

BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

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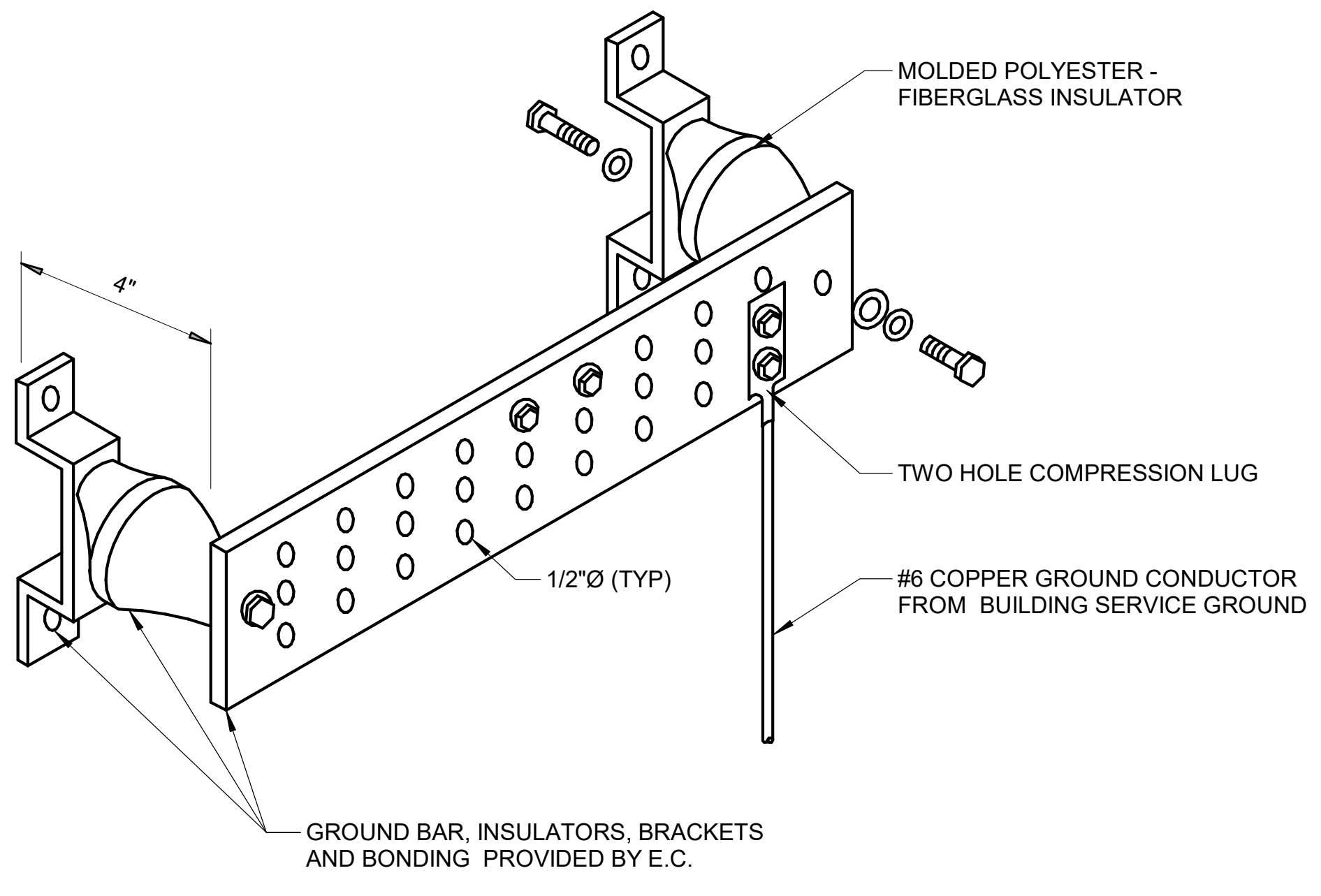
E400

ELECTRICAL LIGHTING DETAILS

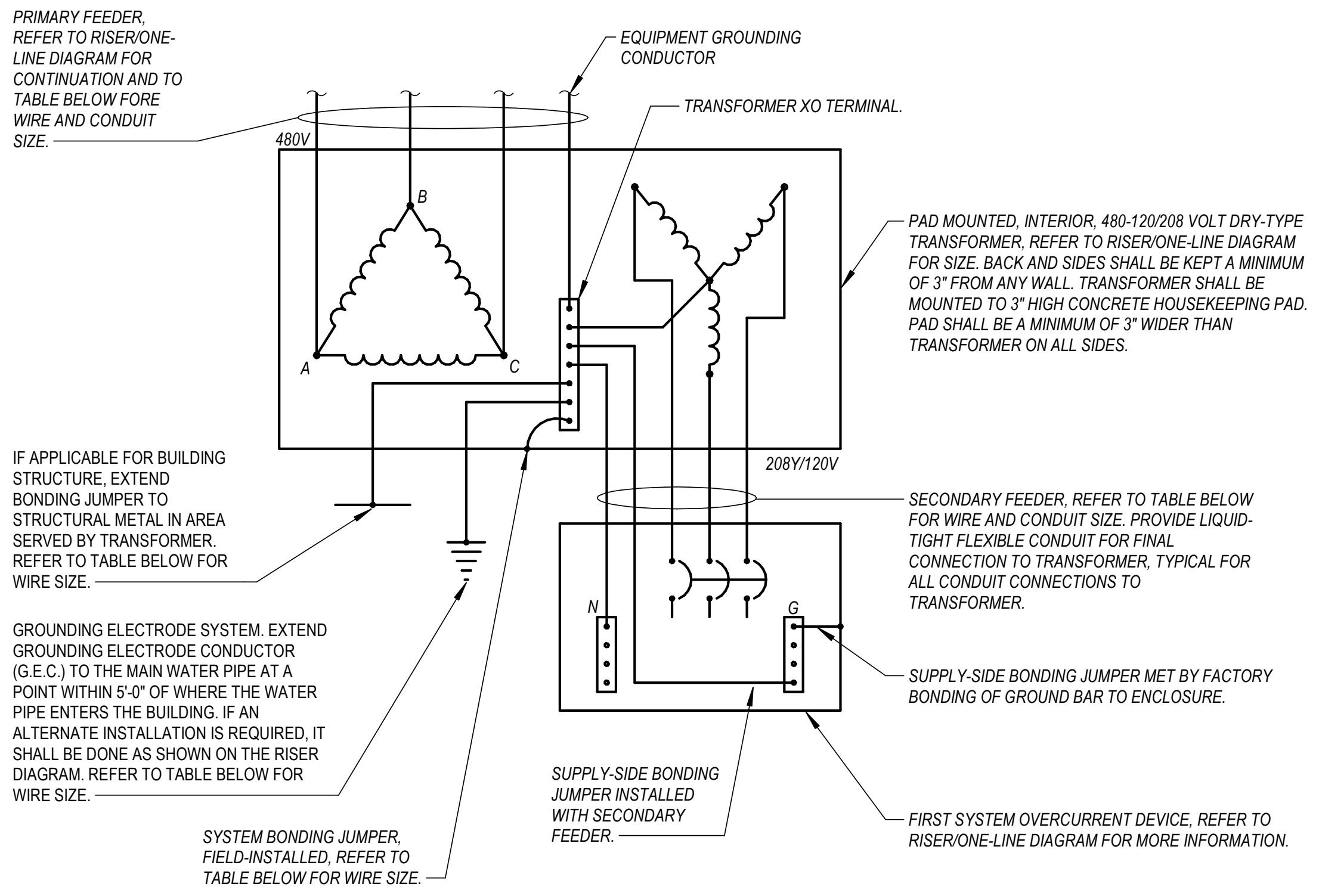

MOLDED POLYESTER - FIBERGLASS INSULATOR
4"
TWO HOLE COMPRESSION LUG
1/2"Ø (TYP)
#6 COPPER GROUND CONDUCTOR FROM BUILDING SERVICE GROUND
GROUND BAR, INSULATORS, BRACKETS AND BONDING PROVIDED BY E.C.

NOTES:

1. MOUNT BAR AT +6'-6" A.F.F.
2. STANDOFF INSULATORS MUST BE PROVIDED WHEN ZONING THE BAR.

1 GROUND BAR (GB) AND INTERSYSTEM BONDING TERMINAL (IBT) DETAIL

NO SCALE


PRIMARY FEEDER, REFER TO RISER/ONE-LINE DIAGRAM FOR CONTINUATION AND TO TABLE BELOW FORE WIRE AND CONDUIT SIZE.
EQUIPMENT GROUNDING CONDUCTOR
TRANSFORMER XO TERMINAL.
480V
B
A
C
PAD MOUNTED, INTERIOR, 480-120/208 VOLT DRY-TYPE TRANSFORMER, REFER TO RISER/ONE-LINE DIAGRAM FOR SIZE. BACK AND SIDES SHALL BE KEPT A MINIMUM OF 3" FROM ANY WALL. TRANSFORMER SHALL BE MOUNTED TO 3" HIGH CONCRETE HOUSEKEEPING PAD. PAD SHALL BE A MINIMUM OF 3" WIDER THAN TRANSFORMER ON ALL SIDES.
208Y/120V
IF APPLICABLE FOR BUILDING STRUCTURE, EXTEND BONDING JUMPER TO STRUCTURAL METAL IN AREA SERVED BY TRANSFORMER. REFER TO TABLE BELOW FOR WIRE SIZE.
SECONDARY FEEDER, REFER TO TABLE BELOW FOR WIRE AND CONDUIT SIZE. PROVIDE LIQUID-TIGHT FLEXIBLE CONDUIT FOR FINAL CONNECTION TO TRANSFORMER, TYPICAL FOR ALL CONDUIT CONNECTIONS TO TRANSFORMER.
N
G
GROUNDING ELECTRODE SYSTEM. EXTEND GROUNDING ELECTRODE CONDUCTOR (G.E.C.) TO THE MAIN WATER PIPE AT A POINT WITHIN 5'-0" OF WHERE THE WATER PIPE ENTERS THE BUILDING. IF AN ALTERNATE INSTALLATION IS REQUIRED, IT SHALL BE DONE AS SHOWN ON THE RISER DIAGRAM. REFER TO TABLE BELOW FOR WIRE SIZE.
SUPPLY-SIDE BONDING JUMPER MET BY FACTORY BONDING OF GROUND BAR TO ENCLOSURE.
SUPPLY-SIDE BONDING JUMPER INSTALLED WITH SECONDARY FEEDER.
SYSTEM BONDING JUMPER, FIELD-INSTALLED, REFER TO TABLE BELOW FOR WIRE SIZE.
FIRST SYSTEM OVERCURRENT DEVICE, REFER TO RISER/ONE-LINE DIAGRAM FOR MORE INFORMATION.

TRANSFORMER SIZE (kVA)	*PRIMARY O.C. (AMPS)* [1]	*PRIMARY FEEDER SIZE (WIRE, EQUIPMENT GROUND WIRE, CONDUIT)* [2]	*SECONDARY O.C. (AMPS)* [3]	*SECONDARY FEEDER SIZE (WIRE, SUPPLY-SIDE BOND'G JUMPER, CONDUIT)* [2]	*GROUNDING ELECTRODE CONDUCTOR (G.E.C.) SIZE (WIRE, CONDUIT)* [2]	*SYSTEM AND STRUCTURAL METAL BOND'G JUMPER SIZE (WIRE, CONDUIT)* [2]
15	25	3-#10 W, 1-#10 GND IN 3/4" C.	50	4-#6 W, 1-#8 GND IN 1" C.	#8 GND IN 3/4" C.	#8 GND IN 3/4" C.
30	50	3-#6 W, 1-#10 GND IN 1" C.	100	4-#1 W, 1-#6 GND IN 1-1/2" C.	#6 GND IN 3/4" C.	#6 GND IN 3/4" C.
45	70	3-#4 W, 1-#8 GND IN 1" C.	150	4-#1/0 W, 1-#6 GND IN 2" C.	#6 GND IN 3/4" C.	#6 GND IN 3/4" C.
75	125	3-#1 W, 1-#6 GND IN 1-1/2" C.	250	4-#250 MCM W, 1-#2 GND IN 3" C.	#2 GND IN 3/4" C.	#2 GND IN 3/4" C.
112.5	175	3-#2/0 W, 1-#6 GND IN 2" C.	400	2 SETS OF: 4-# 3/0 W, 1-#4 GND IN 2" C.	#1/0 GND IN 3/4" C.	#1/0 GND IN 3/4" C.
150	225	3-#4/0 W, 1-#4 GND IN 2" C.	500	2 SETS OF: 4-#250 MCM W, 1-#2 GND IN 3" C.	#1/0 GND IN 3/4" C.	#1/0 GND IN 3/4" C.
225	350	3-#500 MCM W, 1-#3 GND IN 4" C.	800	3 SETS OF: 4-#350 MCM W, 1-#2 GND IN 3" C.	#2/0 GND IN 3/4" C.	#2/0 GND IN 3/4" C.
300	450	2 SETS OF: 3-#4/0 W, 1-#2 GND IN 2 1/2" C.	1000	3 SETS OF: 4-#500 MCM W, 1-#1/0 GND IN 4" C.	#3/0 GND IN 3/4" C.	#4/0 GND IN 3/4" C.
500	700	2 SETS OF: 3-#500 MCM W, 1-#1/0 GND IN 4" C.	1600	5 SETS OF: 4-#500 MCM W, 1-#1/0 GND IN 4" C.	#3/0 GND IN 3/4" C.	#350 MCM GND IN 1" C.

TABLE NOTES:

1. *REFER TO RISER DIAGRAM FOR LOCATION OF THE PRIMARY OVER-CURRENT PROTECTION DEVICE.*
2. *MINIMUM WIRE, GROUND WIRE AND CONDUIT SIZES. LARGER SIZES, IF REQUIRED, SHALL BE NOTED ON RISER DIAGRAM.*
3. *THE SECONDARY OVER-CURRENT PROTECTION DEVICE SHALL BE LOCATED WITHIN 10'-0" OF THE TRANSFORMER PER THE NEC.*

2 480-120 208 VOLT TRANSFORMER INSTALLATION

NO SCALE

STATE OF MISSOURI
BRUCE ELDON HART
NUMBER E-22817
PROFESSIONAL ENGINEER
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

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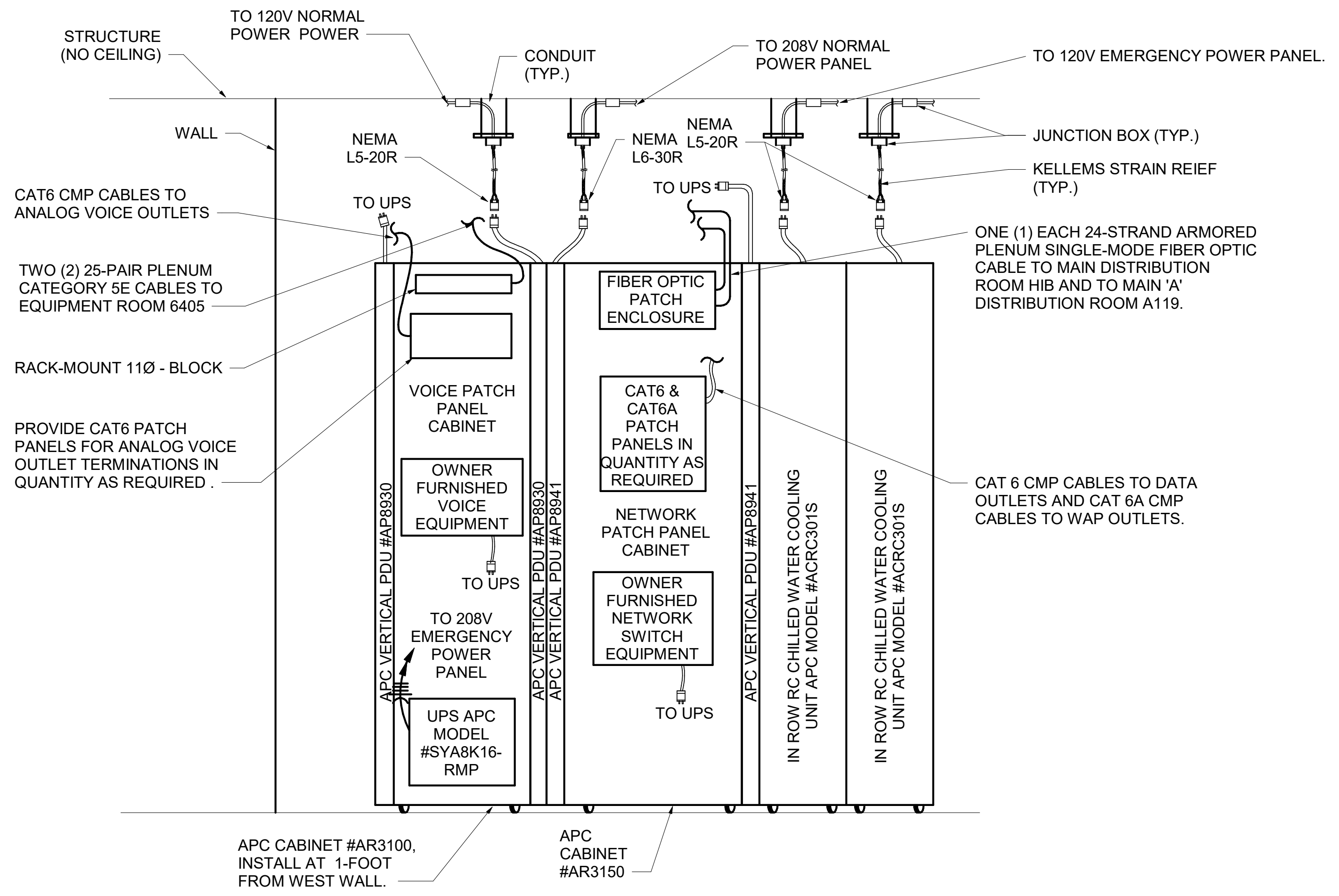
E401

ELECTRICAL DETAILS


STRUCTURE (NO CEILING)
TO 120V NORMAL POWER POWER
CONDUIT (TYP.)
TO 208V NORMAL POWER PANEL
TO 120V EMERGENCY POWER PANEL.
WALL
NEMA L5-20R
NEMA L6-30R
NEMA L5-20R
JUNCTION BOX (TYP.)
KELLEMS STRAIN REIEF (TYP.)
CAT6 CMP CABLES TO ANALOG VOICE OUTLETS
TO UPS
TO UPS
ONE (1) EACH 24-STRAND ARMORED PLENUM SINGLE-MODE FIBER OPTIC CABLE TO MAIN DISTRIBUTION ROOM HIB AND TO MAIN 'A' DISTRIBUTION ROOM A119.
TWO (2) 25-PAIR PLENUM CATEGORY 5E CABLES TO EQUIPMENT ROOM 6405
FIBER OPTIC PATCH ENCLOSURE
RACK-MOUNT 11Ø - BLOCK
VOICE PATCH PANEL CABINET
CAT6 & CAT6A PATCH PANELS IN QUANTITY AS REQUIRED
PROVIDE CAT6 PATCH PANELS FOR ANALOG VOICE OUTLET TERMINATIONS IN QUANTITY AS REQUIRED .
CAT 6 CMP CABLES TO DATA OUTLETS AND CAT 6A CMP CABLES TO WAP OUTLETS.
OWNER FURNISHED VOICE EQUIPMENT
NETWORK PATCH PANEL CABINET
APC VERTICAL PDU #AP8930
APC VERTICAL PDU #AP8930
APC VERTICAL PDU #AP8941
APC VERTICAL PDU #AP8941
IN ROW RC CHILLED WATER COOLING UNIT APC MODEL #ACRC301S
IN ROW RC CHILLED WATER COOLING UNIT APC MODEL #ACRC301S
TO UPS
OWNER FURNISHED NETWORK SWITCH EQUIPMENT
TO 208V EMERGENCY POWER PANEL
TO UPS
UPS APC MODEL #SYA8K16-RMP
APC CABINET #AR3100, INSTALL AT 1-FOOT FROM WEST WALL.
APC CABINET #AR3150

1 I.T. ROOM ELEVATION

NO SCALE

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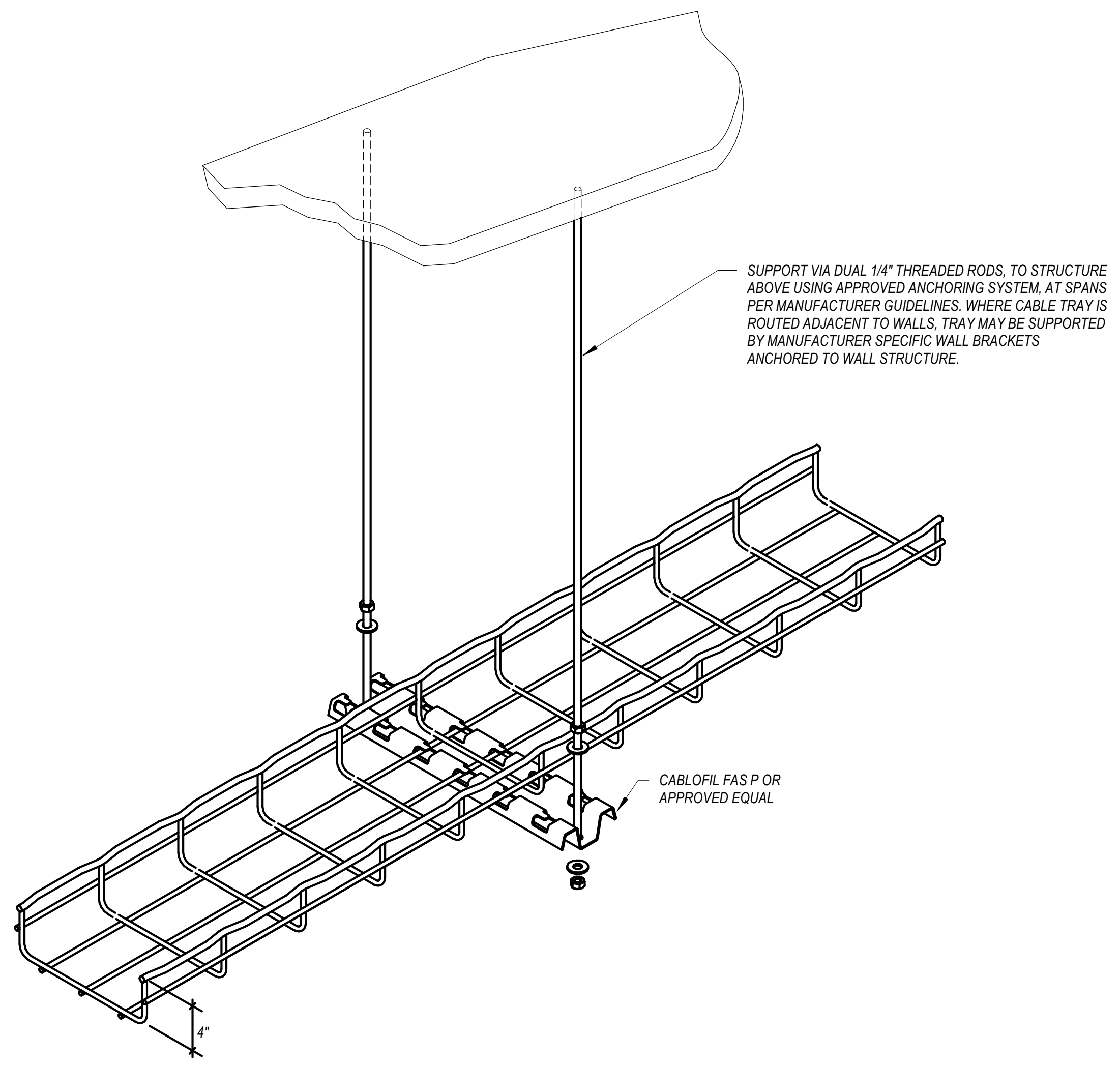
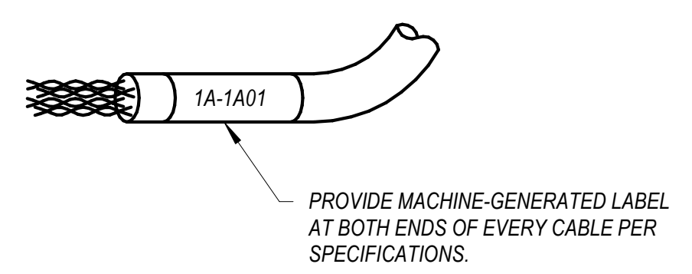
E402

ELECTRICAL SYSTEMS DETAILS


SUPPORT VIA DUAL 1/4" THREADED RODS, TO STRUCTURE ABOVE USING APPROVED ANCHORING SYSTEM, AT SPANS PER MANUFACTURER GUIDELINES. WHERE CABLE TRAY IS ROUTED ADJACENT TO WALLS, TRAY MAY BE SUPPORTED BY MANUFACTURER SPECIFIC WALL BRACKETS ANCHORED TO WALL STRUCTURE.
CABLOFIL FAS P OR APPROVED EQUAL
4"

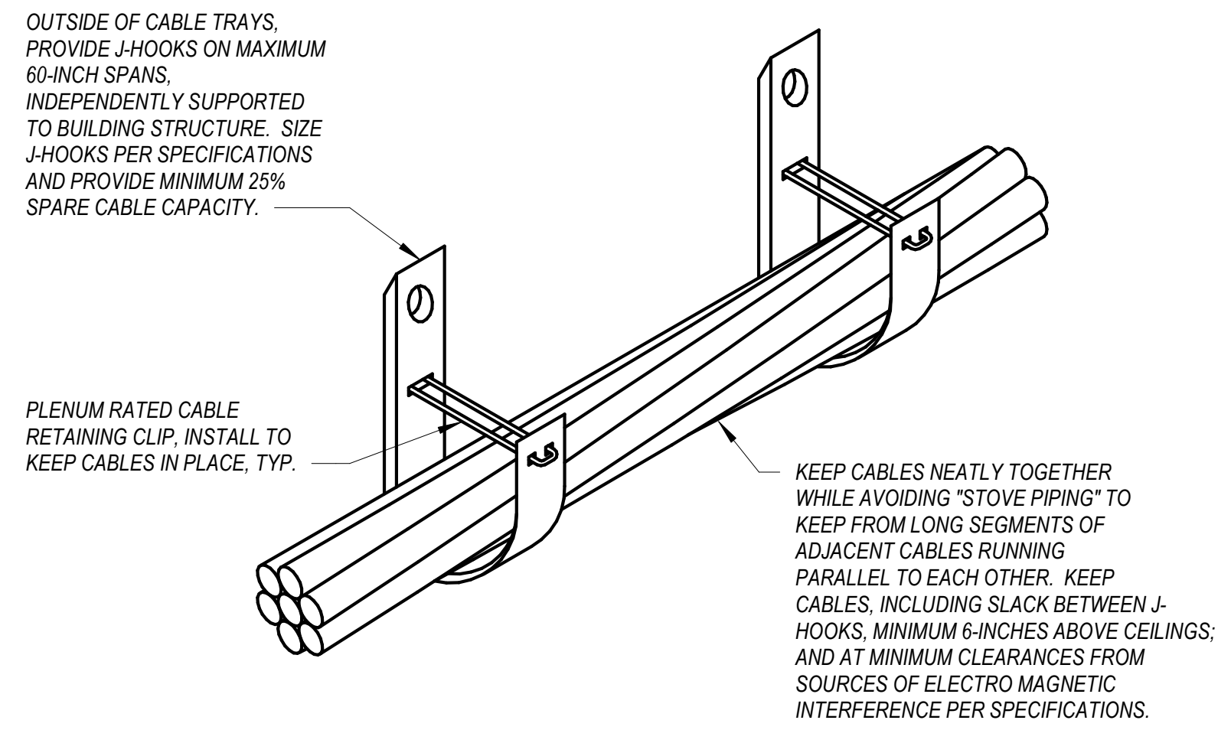
1 DETAIL OF CABLE TRAY SUPPORT

NO SCALE


1A-1A01
PROVIDE MACHINE-GENERATED LABEL AT BOTH ENDS OF EVERY CABLE PER SPECIFICATIONS.

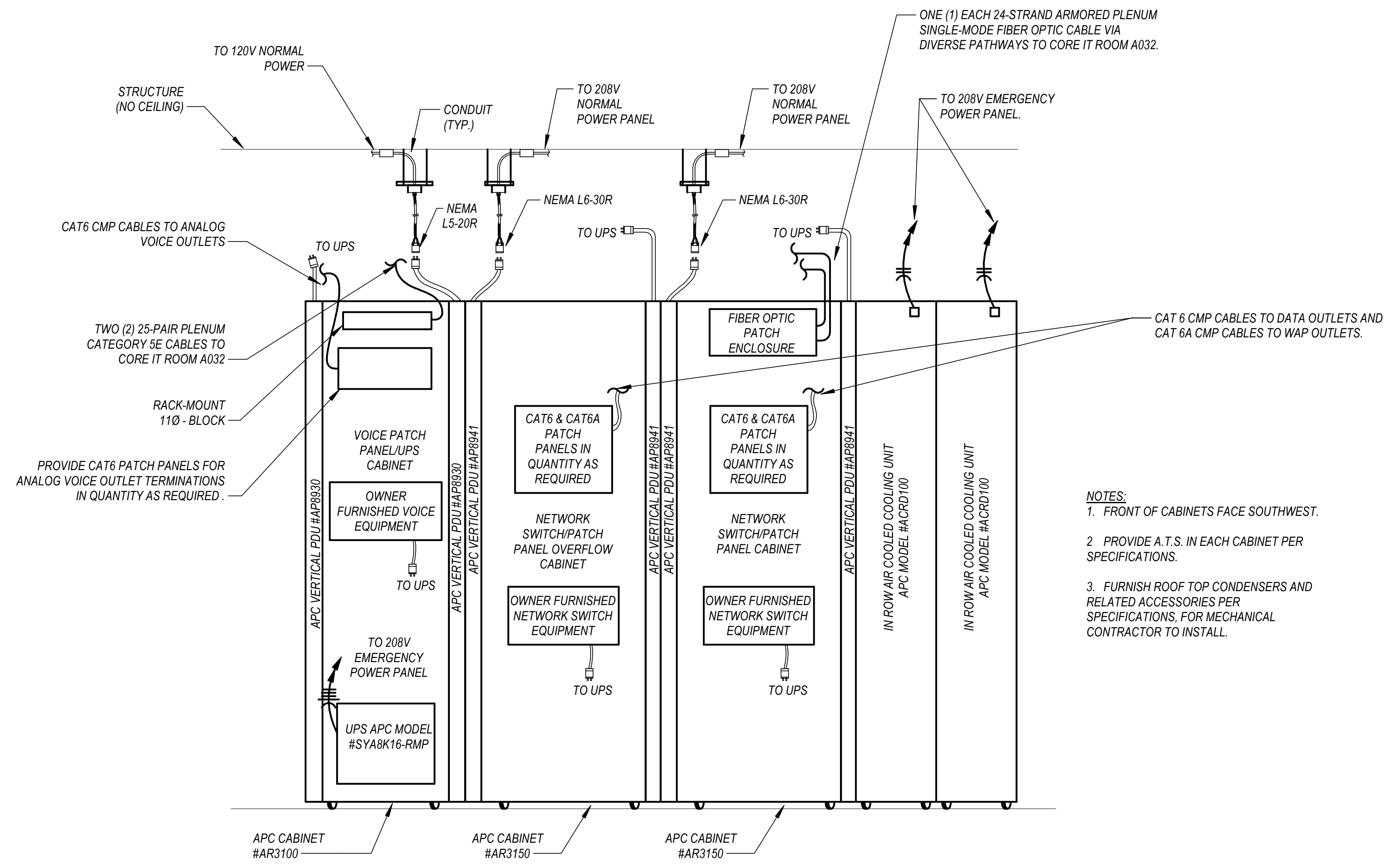
2 CABLE LABELING DETAIL

NO SCALE


OUTSIDE OF CABLE TRAYS, PROVIDE J-HOOKS ON MAXIMUM 60-INCH SPANS, INDEPENDENTLY SUPPORTED TO BUILDING STRUCTURE. SIZE J-HOOKS PER SPECIFICATIONS AND PROVIDE MINIMUM 25% SPARE CABLE CAPACITY.
PLENUM RATED CABLE RETAINING CLIP, INSTALL TO KEEP CABLES IN PLACE, TYP.
KEEP CABLES NEATLY TOGETHER WHILE AVOIDING "STOVE PIPING" TO KEEP FROM LONG SEGMENTS OF ADJACENT CABLES RUNNING PARALLEL TO EACH OTHER. KEEP CABLES, INCLUDING SLACK BETWEEN J-HOOKS, MINIMUM 6-INCHES ABOVE CEILINGS; AND AT MINIMUM CLEARANCES FROM SOURCES OF ELECTRO MAGNETIC INTERFERENCE PER SPECIFICATIONS.

3 CABLE SUPPORT DETAIL

NO SCALE


TO 120V NORMAL POWER
STRUCTURE (NO CEILING)
CONDUIT (TYP.)
TO 208V NORMAL POWER PANEL
TO 208V NORMAL POWER PANEL
ONE (1) EACH 24-STRAND ARMORED PLENUM SINGLE-MODE FIBER OPTIC CABLE VIA DIVERSE PATHWAYS TO CORE IT ROOM A032.
TO 208V EMERGENCY POWER PANEL.
NEMA L5-20R
NEMA L6-30R
NEMA L6-30R
CAT6 CMP CABLES TO ANALOG VOICE OUTLETS
TO UPS
TO UPS
TO UPS
TWO (2) 25-PAIR PLENUM CATEGORY 5E CABLES TO CORE IT ROOM A032
RACK-MOUNT 11Ø - BLOCK
PROVIDE CAT6 PATCH PANELS FOR ANALOG VOICE OUTLET TERMINATIONS IN QUANTITY AS REQUIRED .
FIBER OPTIC PATCH ENCLOSURE
CAT 6 CMP CABLES TO DATA OUTLETS AND CAT 6A CMP CABLES TO WAP OUTLETS.
VOICE PATCH PANEL/UPS CABINET
OWNER FURNISHED VOICE EQUIPMENT
TO UPS
TO 208V EMERGENCY POWER PANEL
UPS APC MODEL #SYA8K16-RMP
APC VERTICAL PDU #AP8930
APC VERTICAL PDU #AP8930
APC VERTICAL PDU #AP8941
CAT6 & CAT6A PATCH PANELS IN QUANTITY AS REQUIRED
NETWORK SWITCH/PATCH PANEL OVERFLOW CABINET
OWNER FURNISHED NETWORK SWITCH EQUIPMENT
TO UPS
APC VERTICAL PDU #AP8941
APC VERTICAL PDU #AP8941
CAT6 & CAT6A PATCH PANELS IN QUANTITY AS REQUIRED
NETWORK SWITCH/PATCH PANEL CABINET
OWNER FURNISHED NETWORK SWITCH EQUIPMENT
TO UPS
APC VERTICAL PDU #AP8941
IN ROW AIR COOLED COOLING UNIT APC MODEL #ACRD100
IN ROW AIR COOLED COOLING UNIT APC MODEL #ACRD100
APC CABINET #AR3100
APC CABINET #AR3150
APC CABINET #AR3150

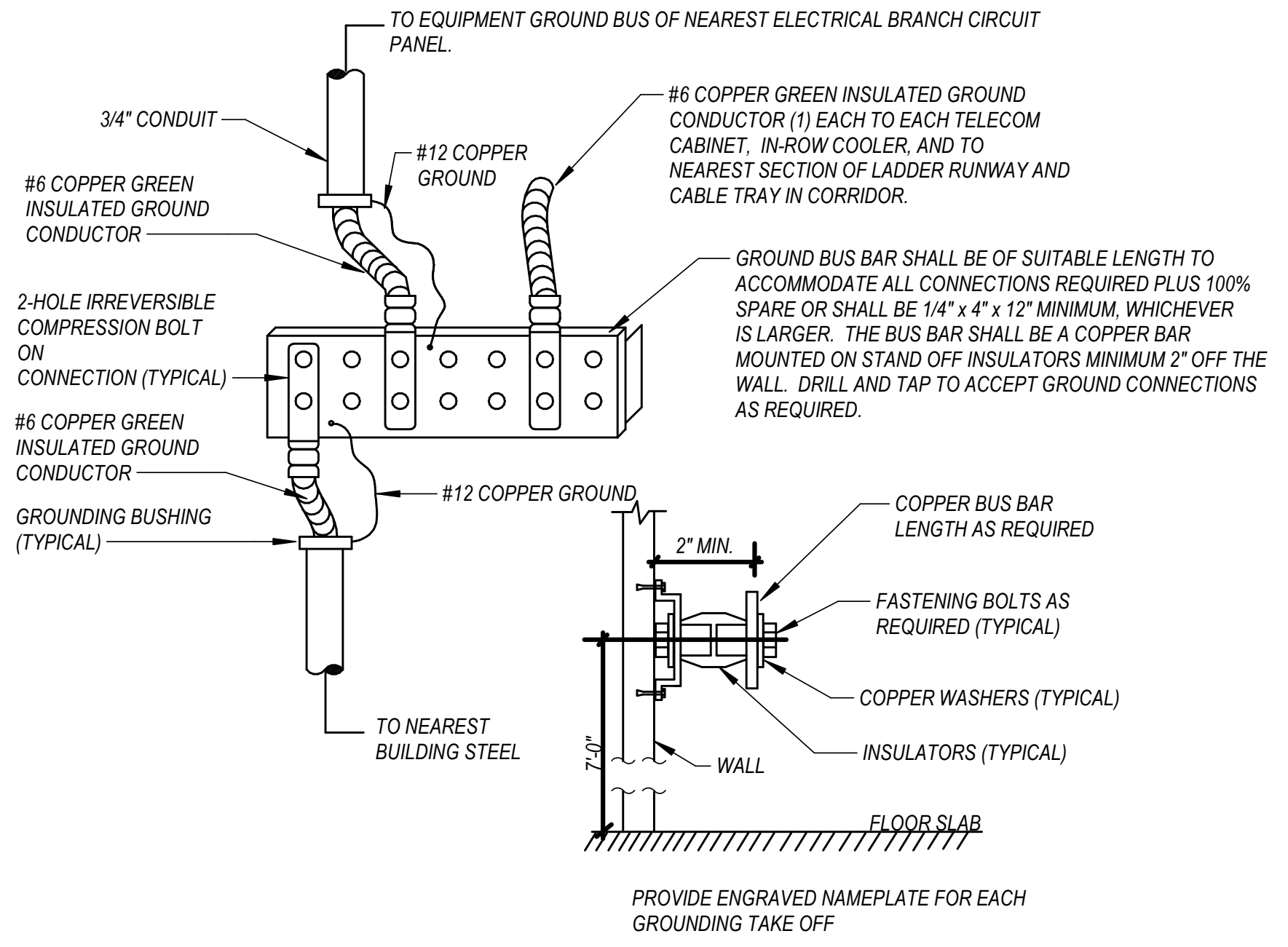
NOTES:
1. FRONT OF CABINETS FACE SOUTHWEST.

2 PROVIDE A.T.S. IN EACH CABINET PER SPECIFICATIONS.

3. FURNISH ROOF TOP CONDENSERS AND RELATED ACCESSORIES PER SPECIFICATIONS, FOR MECHANICAL CONTRACTOR TO INSTALL.

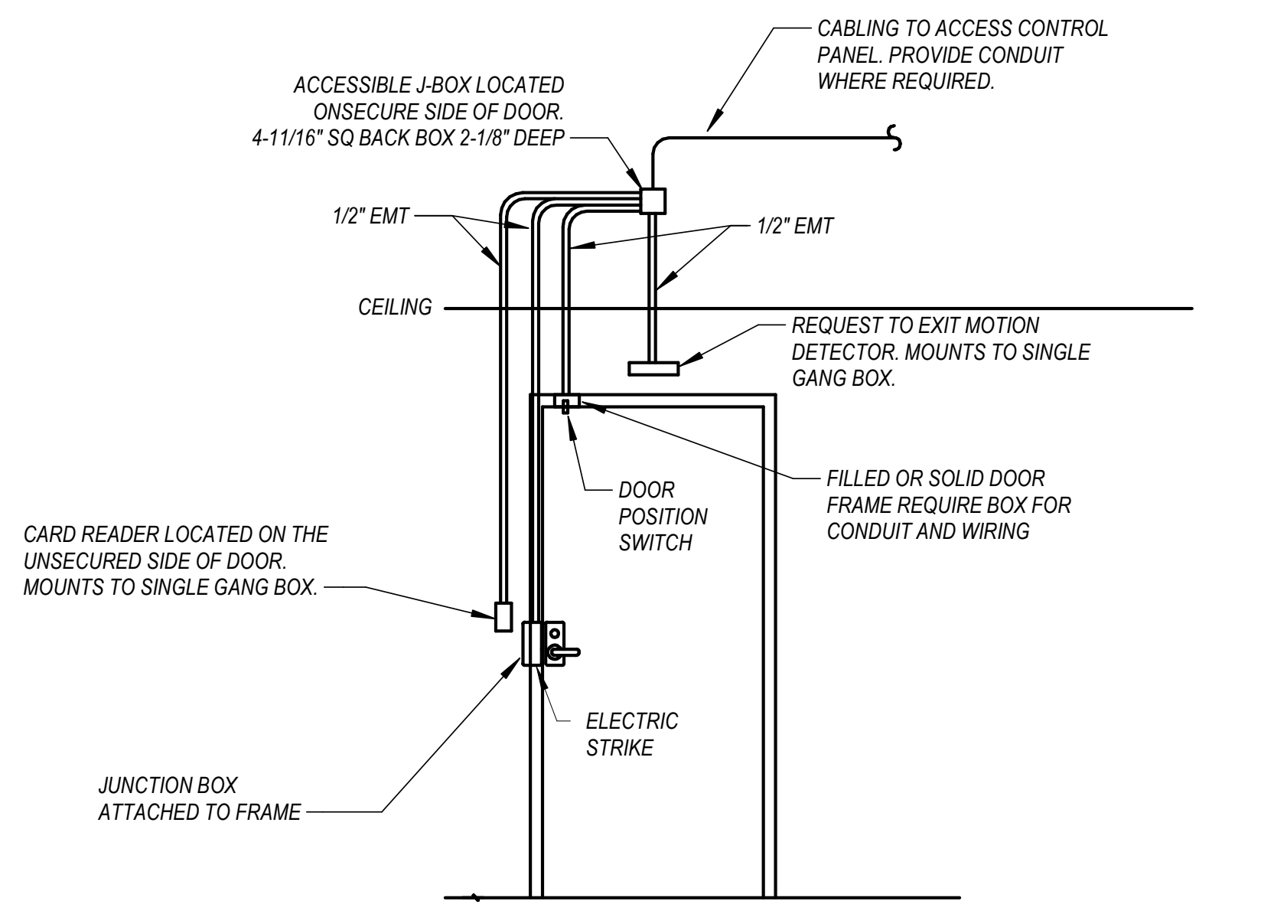
4 I.T. ROOM ELEVATION

NO SCALE


TO EQUIPMENT GROUND BUS OF NEAREST ELECTRICAL BRANCH CIRCUIT PANEL.
3/4" CONDUIT
#12 COPPER GROUND
#6 COPPER GREEN INSULATED GROUND CONDUCTOR (1) EACH TO EACH TELECOM CABINET, IN-ROW COOLER, AND TO NEAREST SECTION OF LADDER RUNWAY AND CABLE TRAY IN CORRIDOR.
#6 COPPER GREEN INSULATED GROUND CONDUCTOR
2-HOLE IRREVERSIBLE COMPRESSION BOLT ON CONNECTION (TYPICAL)
GROUND BUS BAR SHALL BE OF SUITABLE LENGTH TO ACCOMMODATE ALL CONNECTIONS REQUIRED PLUS 100% SPARE OR SHALL BE 1/4" x 4" x 12" MINIMUM, WHICHEVER IS LARGER. THE BUS BAR SHALL BE A COPPER BAR MOUNTED ON STAND OFF INSULATORS MINIMUM 2" OFF THE WALL. DRILL AND TAP TO ACCEPT GROUND CONNECTIONS AS REQUIRED.
#6 COPPER GREEN INSULATED GROUND CONDUCTOR
#12 COPPER GROUND
GROUNDING BUSHING (TYPICAL)
COPPER BUS BAR LENGTH AS REQUIRED
2" MIN.
FASTENING BOLTS AS REQUIRED (TYPICAL)
COPPER WASHERS (TYPICAL)
INSULATORS (TYPICAL)
WALL
7'-0"
TO NEAREST BUILDING STEEL
FLOOR SLAB
PROVIDE ENGRAVED NAMEPLATE FOR EACH GROUNDING TAKE OFF

5 TELECOMMUNICATION GROUND BUSBAR (TGB)

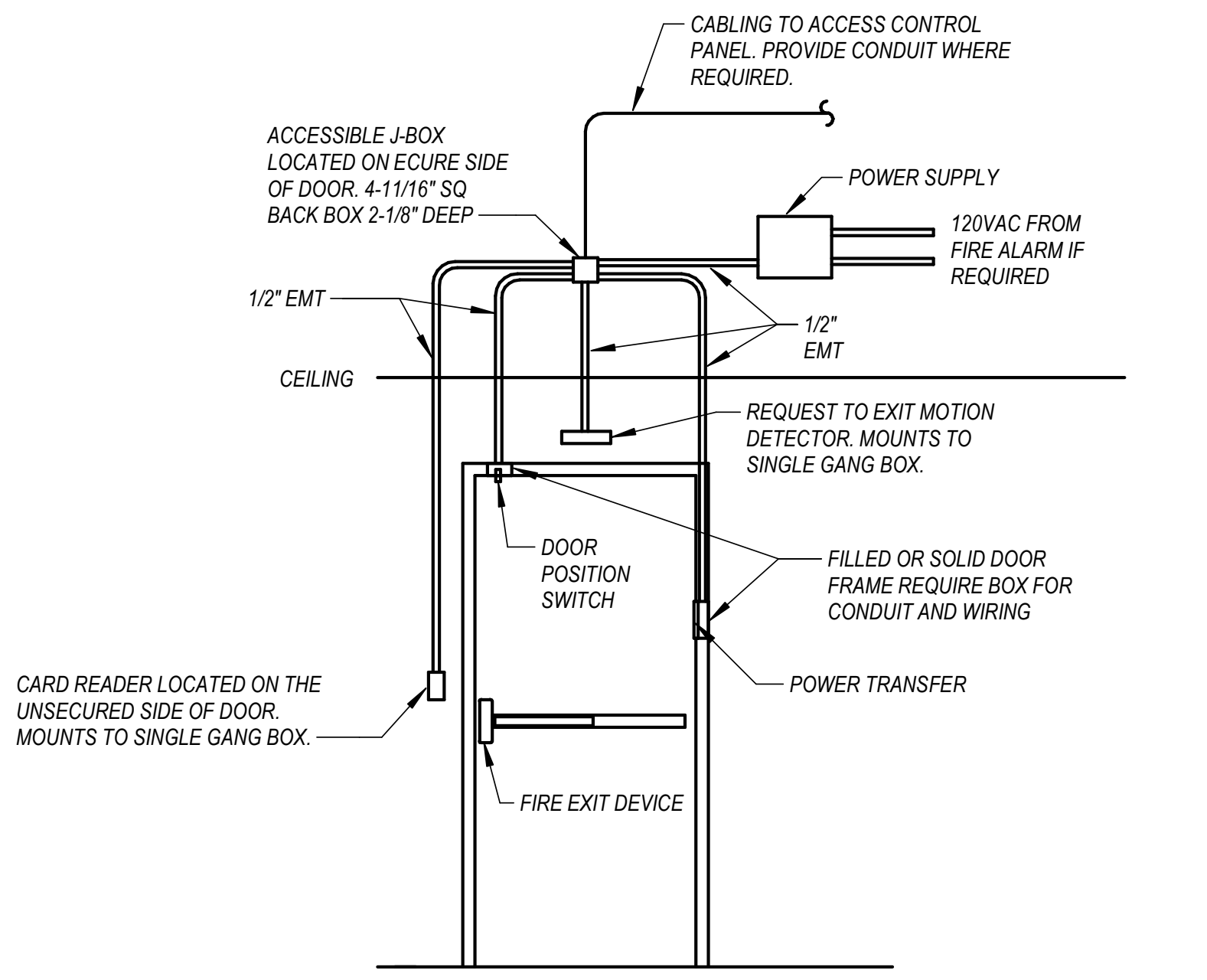
NO SCALE


CABLING TO ACCESS CONTROL PANEL. PROVIDE CONDUIT WHERE REQUIRED.
ACCESSIBLE J-BOX LOCATED ONSECURE SIDE OF DOOR. 4-11/16" SQ BACK BOX 2-1/8" DEEP
1/2" EMT
1/2" EMT
CEILING
REQUEST TO EXIT MOTION DETECTOR. MOUNTS TO SINGLE GANG BOX.
DOOR POSITION SWITCH
FILLED OR SOLID DOOR FRAME REQUIRE BOX FOR CONDUIT AND WIRING
CARD READER LOCATED ON THE UNSECURED SIDE OF DOOR. MOUNTS TO SINGLE GANG BOX.
ELECTRIC STRIKE
JUNCTION BOX ATTACHED TO FRAME

NOTE:
REFER TO DOOR HARDWEAR SCHEDULE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

6 DETAIL OF TYPICAL ACCESS CONTROL DOOR WITH ELECTRIC STRIKE

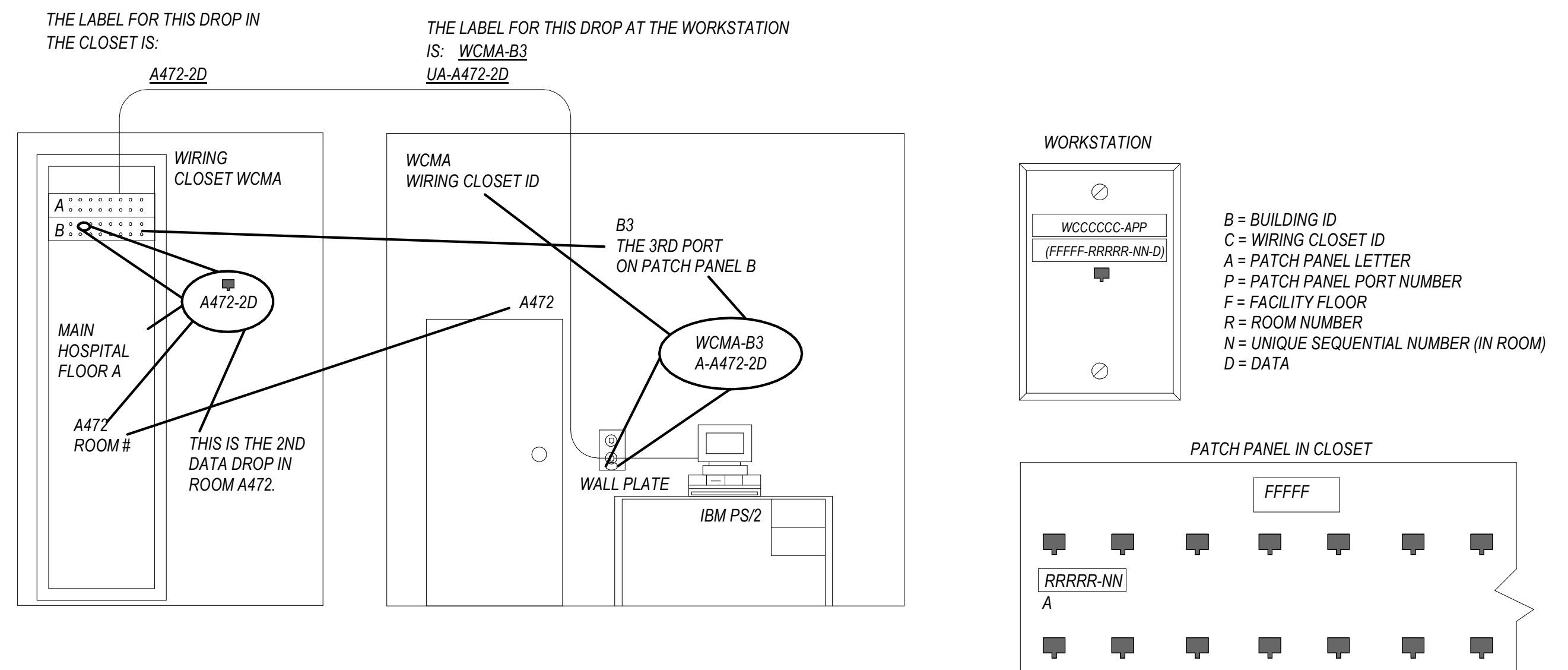
NO SCALE


CABLING TO ACCESS CONTROL PANEL. PROVIDE CONDUIT WHERE REQUIRED.
ACCESSIBLE J-BOX LOCATED ON ECURE SIDE OF DOOR. 4-11/16" SQ BACK BOX 2-1/8" DEEP
POWER SUPPLY
120VAC FROM FIRE ALARM IF REQUIRED
1/2" EMT
1/2" EMT
CEILING
REQUEST TO EXIT MOTION DETECTOR. MOUNTS TO SINGLE GANG BOX.
DOOR POSITION SWITCH
FILLED OR SOLID DOOR FRAME REQUIRE BOX FOR CONDUIT AND WIRING
POWER TRANSFER
CARD READER LOCATED ON THE UNSECURED SIDE OF DOOR. MOUNTS TO SINGLE GANG BOX.
FIRE EXIT DEVICE

NOTE:
REFER TO DOOR HARDWEAR SCHEDULE FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

7 DETAIL OF TYPICAL ACCESS CONTROL DOOR WITH FIRE EXIT DEVICE

NO SCALE



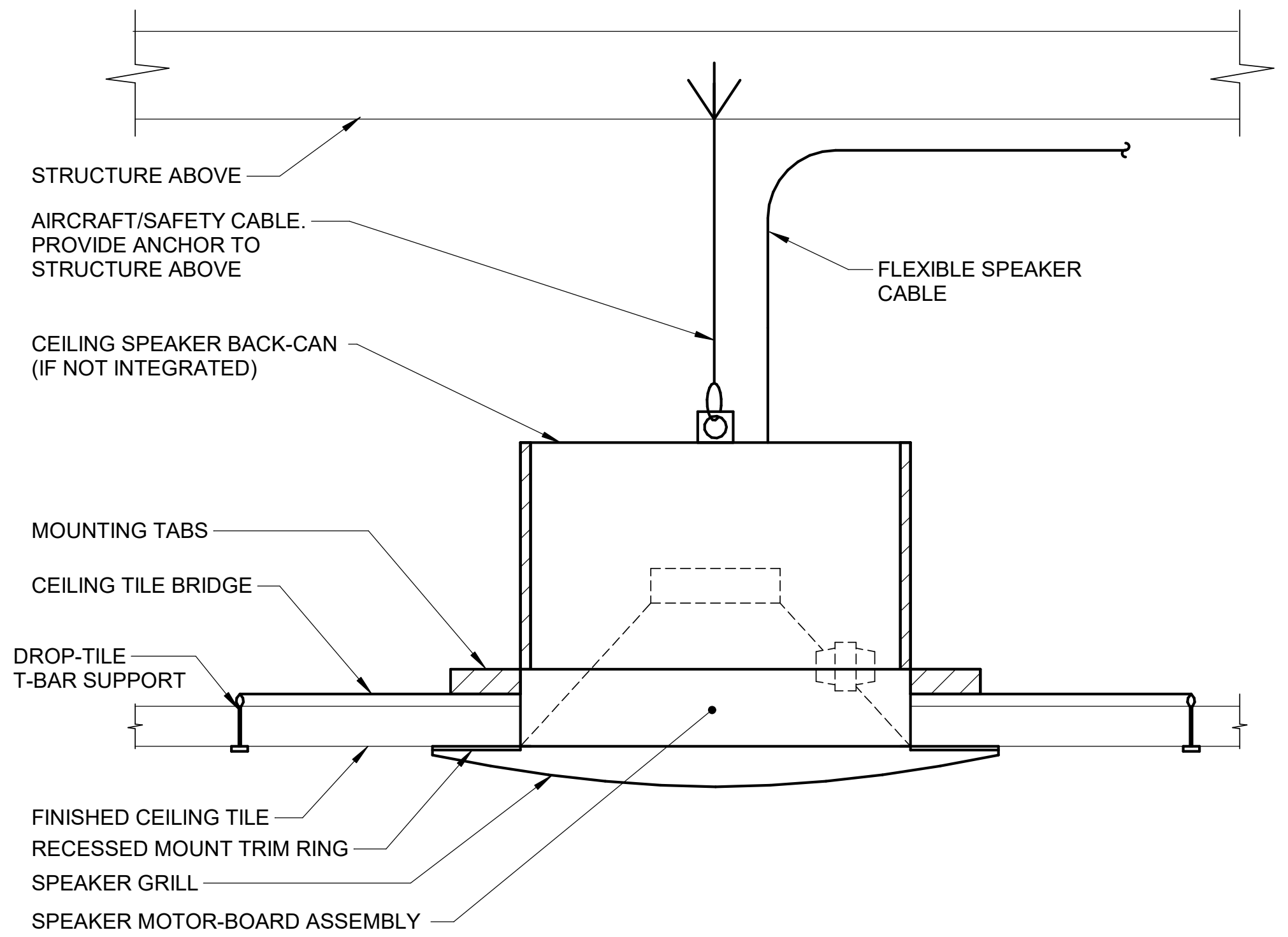
B = BUILDING ID
C = WIRING CLOSET ID
A = PATCH PANEL LETTER
P = PATCH PANEL PORT NUMBER
F = FACILITY FLOOR
R = ROOM NUMBER
N = UNIQUE SEQUENTIAL NUMBER (IN ROOM)
D = DATA

WORKSTATION
THE WORKSTATION LABEL WILL BE BASED ON THE LOCATION OF THE DESTINATION IN THE WIRING CLOSET. THE LABEL WILL BE PREFIXED WITH THE WIRING CLOSET IDENTIFICATION. THIS IDENTIFICATION IS CROSS REFERENCED IN AN ATTACHED DOCUMENT. A DASH WILL SEPARATE THE PREFIX FROM THE SUFFIX. THE SUFFIX WILL CONSIST OF THE DESTINATION PATCH PANEL LETTER. THE PATCH PANEL LETTER IS DETERMINED BY A LABEL ON THE PATCH PANEL IN THE WIRING CLOSET. THE REMAINDER OF THE SUFFIX WILL CORRESPOND WITH THE PORT NUMBER ON THE PATCH PANEL IN THE WIRING CLOSET.

WIRING CLOSET
THE WIRING CLOSET LABEL WILL BE BASED ON THE LOCATION OF THE DESTINATION ROOM. THE LABEL WILL BE PREFIXED WITH THE ROOM NUMBER. A DASH WILL SEPARATE THE PREFIX FROM THE SUFFIX. THE SUFFIX IS DETERMINED BY THE NUMBER OF DROPS IN THE ROOM. THIS NUMBER IS CONVERTED INTO AN ALPHABETIC REPRESENTATION I.E. A=1, B=2 AND C=3.

8 TYPICAL SLHS DATA CABLE LABELING STANDARD

NO SCALE

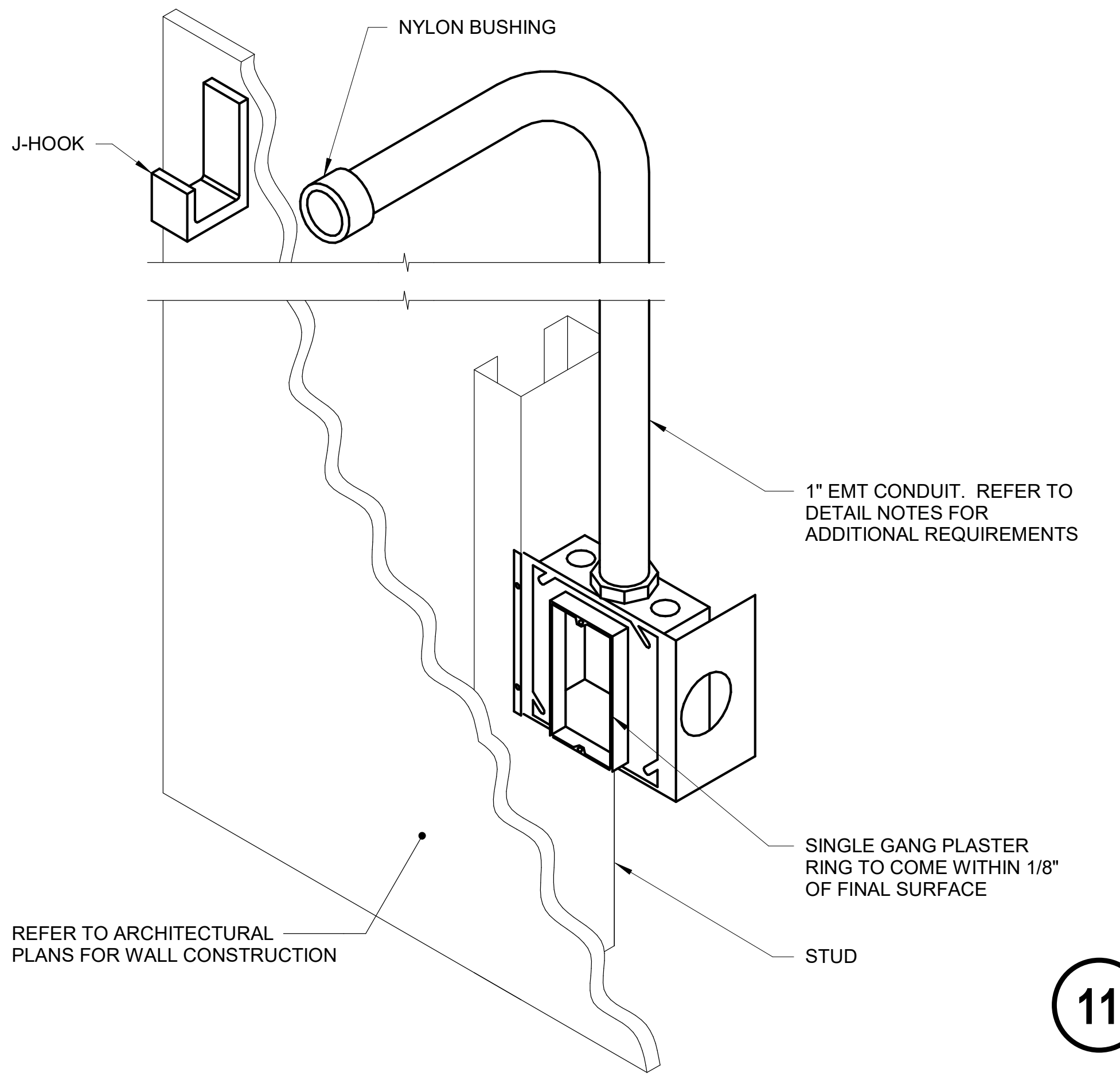

STRUCTURE ABOVE
AIRCRAFT/SAFETY CABLE. PROVIDE ANCHOR TO STRUCTURE ABOVE
FLEXIBLE SPEAKER CABLE
CEILING SPEAKER BACK-CAN (IF NOT INTEGRATED)
MOUNTING TABS
CEILING TILE BRIDGE
DROP-TILE T-BAR SUPPORT
FINISHED CEILING TILE
RECESSED MOUNT TRIM RING
SPEAKER GRILL
SPEAKER MOTOR-BOARD ASSEMBLY (IF NOT INTEGRATED WITH BACK-CAN)

NOTES:

1. WHERE SUPPORTS ATTACH TO METAL ROOF DECKING, EXCLUDING CONCRETE ON METAL DECKING, DO NOT EXCEED 25 LBS. PER HANGAR AND A MINIMUM SPACING OF 2'-0" ON CENTER. THIS 25 LB. LOAD AND 2'-0" SPACING INCLUDE ELECTRICAL AND MECHANICAL ITEMS HANGING FROM DECK. IF THE HANGER RESTRICTIONS CANNOT BE ACHIEVED, THE ADDITION OF SUPPLEMENTAL FRAMING OFF STEEL FRAMING WILL BE REQUIRED.

9 CEILING SPEAKER MOUNTING DETAIL

NO SCALE

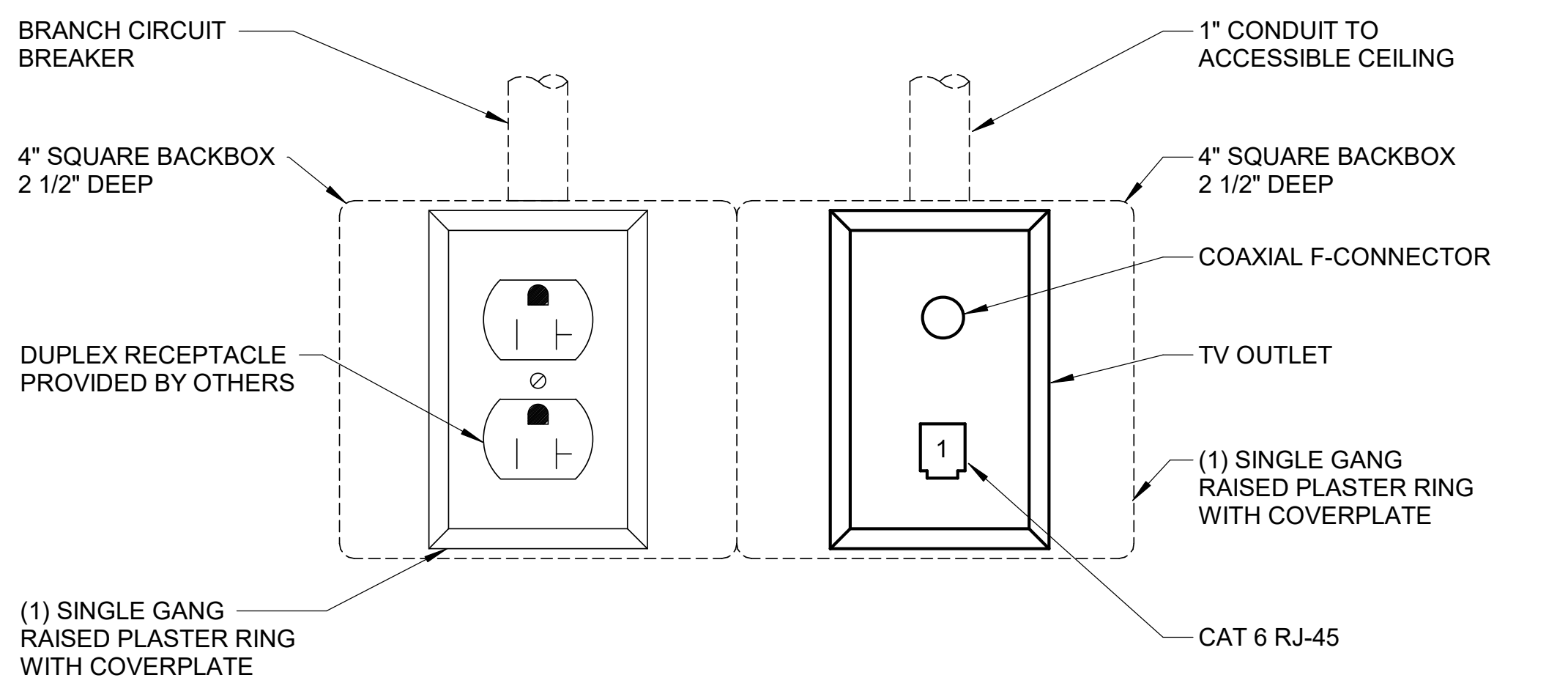

NYLON BUSHING
J-HOOK
1" EMT CONDUIT. REFER TO DETAIL NOTES FOR ADDITIONAL REQUIREMENTS
SINGLE GANG PLASTER RING TO COME WITHIN 1/8" OF FINAL SURFACE
REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION
STUD

NOTES:

1. 3/4" EMT CONDUIT SHALL STUB UP TO CEILING, OR BOTTOM OF DECK AS APPROPRIATE, AND TERMINATE ORIENTED HORIZONTALLY AT THE HEIGHT OF THE ASSOCIATED CONDUIT OR J-HOOK ROUTE. CONDUIT RUN SHALL NOT CONTAIN MORE THAN 180 DEGREES OF BEND BETWEEN ACCESSIBLE JUNCTION BOXES OR BETWEEN JUNCTION BOX AND END OF CONDUIT.
2. WHERE CONDUIT STUB IS LOCATED IN A ROOM WITH AN ACCESSIBLE CEILING AND IS NOT REQUIRED TO RUN TO CABLE ROUTE LOCATED OUTSIDE THE ROOM, STUB MUST TERMINATE ABOVE THE ACCESSIBLE CEILING WITH A 90-DEGREE BEND AT THE TOP ORIENTED IN TO THE ROOM AT THE HEIGHT OF THE ASSOCIATED CABLE TRAY OR J-HOOK ROUTE IN THE ROOM.
3. ALL STUBS MUST BE FITTED WITH A NYLON BUSHING ON EACH END OF THE CONDUIT.
4. INSTALLING CONTRACTOR SHALL FURNISH AND INSTALL PULL STRINGS AND FIRESTOP MATERIALS FOR TECHNOLOGY ROUGH-INS PER PROJECT REQUIREMENTS. REFER TO SPECIFICATIONS FOR FIRESTOP REQUIREMENTS.

10 TECHNOLOGY ROUGH-IN MOUNTING DETAIL

NO SCALE


BRANCH CIRCUIT BREAKER
4" SQUARE BACKBOX 2 1/2" DEEP
DUPLEX RECEPTACLE PROVIDED BY OTHERS
(1) SINGLE GANG RAISED PLASTER RING WITH COVERPLATE
1" CONDUIT TO ACCESSIBLE CEILING
4" SQUARE BACKBOX 2 1/2" DEEP
COAXIAL F-CONNECTOR
TV OUTLET
(1) SINGLE GANG RAISED PLASTER RING WITH COVERPLATE
1
CAT 6 RJ-45

11 DIGITAL SIGNAGE OUTLET CONFIGURATION DETAIL

NO SCALE

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BRUCE ELDON HART
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1/16/2023
Bruce E. Hart - Engineer
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CONSTRUCTION DOCUMENTS

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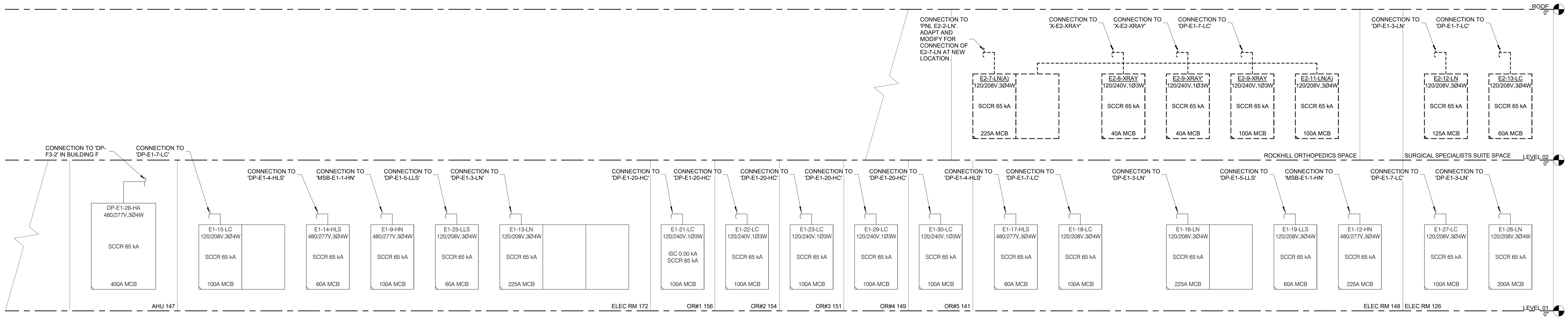
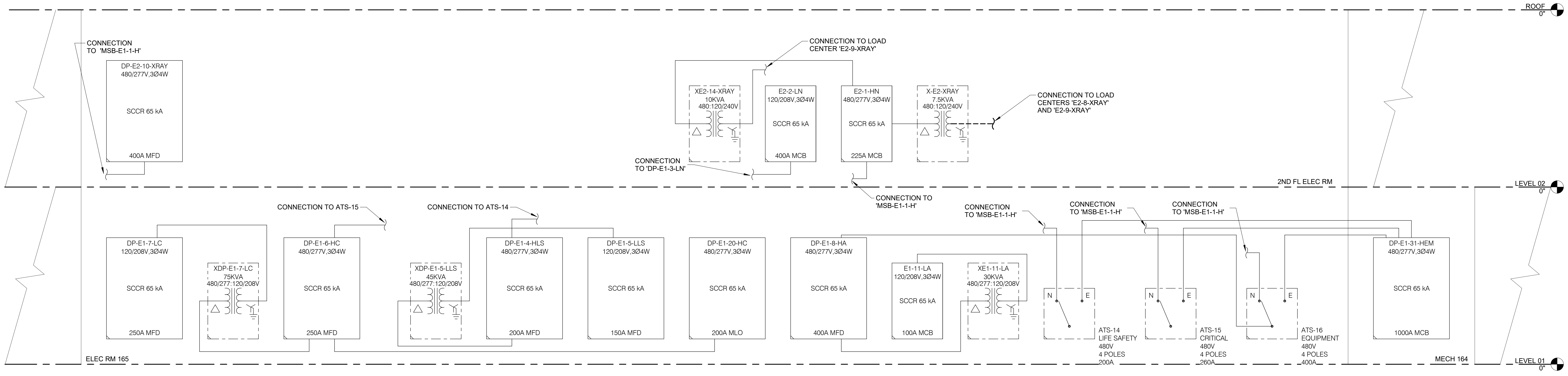
E403

ELECTRICAL SYSTEMS DETAILS


ROOF 0"
LEVEL 02 0"
LEVEL 01 0"
CONNECTION TO 'PNL E2-2-LN'. ADAPT AND MODIFY FOR CONNECTION OF E2-7-LN AT NEW LOCATION.
CONNECTION TO 'X-E2-XRAY'
CONNECTION TO 'X-E2-XRAY'
CONNECTION TO 'DP-E1-7-LC'
CONNECTION TO 'DP-E1-3-LN'
CONNECTION TO 'DP-E1-7-LC'
E2-7-LN(A) 120/208V,3Ø4W SCCR 65 kA 225A MCB
E2-8-XRAY 120/240V,1Ø3W SCCR 65 kA 40A MCB
E2-9-XRAY' 120/240V,1Ø3W SCCR 65 kA 40A MCB
E2-9-XRAY 120/240V,1Ø3W SCCR 65 kA 100A MCB
E2-11-LN(A) 120/208V,3Ø4W SCCR 65 kA 100A MCB
E2-12-LN 120/208V,3Ø4W SCCR 65 kA 125A MCB
E2-13-LC 120/208V,3Ø4W SCCR 65 kA 60A MCB
ROCKHILL ORTHOPEDICS SPACE
SURGICAL SPECIALISTS SUITE SPACE
CONNECTION TO 'DP-F3-2' IN BUILDING F
CONNECTION TO 'DP-E1-7-LC'
CONNECTION TO 'DP-E1-4-HLS'
CONNECTION TO 'MSB-E1-1-HN'
CONNECTION TO 'DP-E1-5-LLS'
CONNECTION TO 'DP-E1-3-LN'
CONNECTION TO 'DP-E1-20-HC'
CONNECTION TO 'DP-E1-20-HC'
CONNECTION TO 'DP-E1-20-HC'
CONNECTION TO 'DP-E1-20-HC'
CONNECTION TO 'DP-E1-20-HC'
CONNECTION TO 'DP-E1-4-HLS'
CONNECTION TO 'DP-E1-7-LC'
CONNECTION TO 'DP-E1-3-LN'
CONNECTION TO 'DP-E1-5-LLS'
CONNECTION TO 'MSB-E1-1-HN'
CONNECTION TO 'DP-E1-7-LC'
CONNECTION TO 'DP-E1-3-LN'
DP-E1-28-HA 480/277V,3Ø4W SCCR 65 kA 400A MCB
E1-15-LC 120/208V,3Ø4W SCCR 65 kA 100A MCB
E1-14-HLS 480/277V,3Ø4W SCCR 65 kA 60A MCB
E1-9-HN 480/277V,3Ø4W SCCR 65 kA 100A MCB
E1-25-LLS 120/208V,3Ø4W SCCR 65 kA 60A MCB
E1-13-LN 120/208V,3Ø4W SCCR 65 kA 225A MCB
E1-21-LC 120/240V,1Ø3W ISC 0.00 kA SCCR 65 kA 100A MCB
E1-22-LC 120/240V,1Ø3W SCCR 65 kA 100A MCB
E1-23-LC 120/240V,1Ø3W SCCR 65 kA 100A MCB
E1-29-LC 120/240V,1Ø3W SCCR 65 kA 100A MCB
E1-30-LC 120/240V,1Ø3W SCCR 65 kA 100A MCB
E1-17-HLS 480/277V,3Ø4W SCCR 65 kA 60A MCB
E1-18-LC 120/208V,3Ø4W SCCR 65 kA 100A MCB
E1-16-LN 120/208V,3Ø4W SCCR 65 kA 225A MCB
E1-19-LLS 120/208V,3Ø4W SCCR 65 kA 60A MCB
E1-12-HN 480/277V,3Ø4W SCCR 65 kA 225A MCB
E1-27-LC 120/208V,3Ø4W SCCR 65 kA 100A MCB
E1-26-LN 120/208V,3Ø4W SCCR 65 kA 200A MCB
AHU 147
ELEC RM 172
OR#1 156
OR#2 154
OR#3 151
OR#4 149
OR#5 141
ELEC RM 148
ELEC RM 126

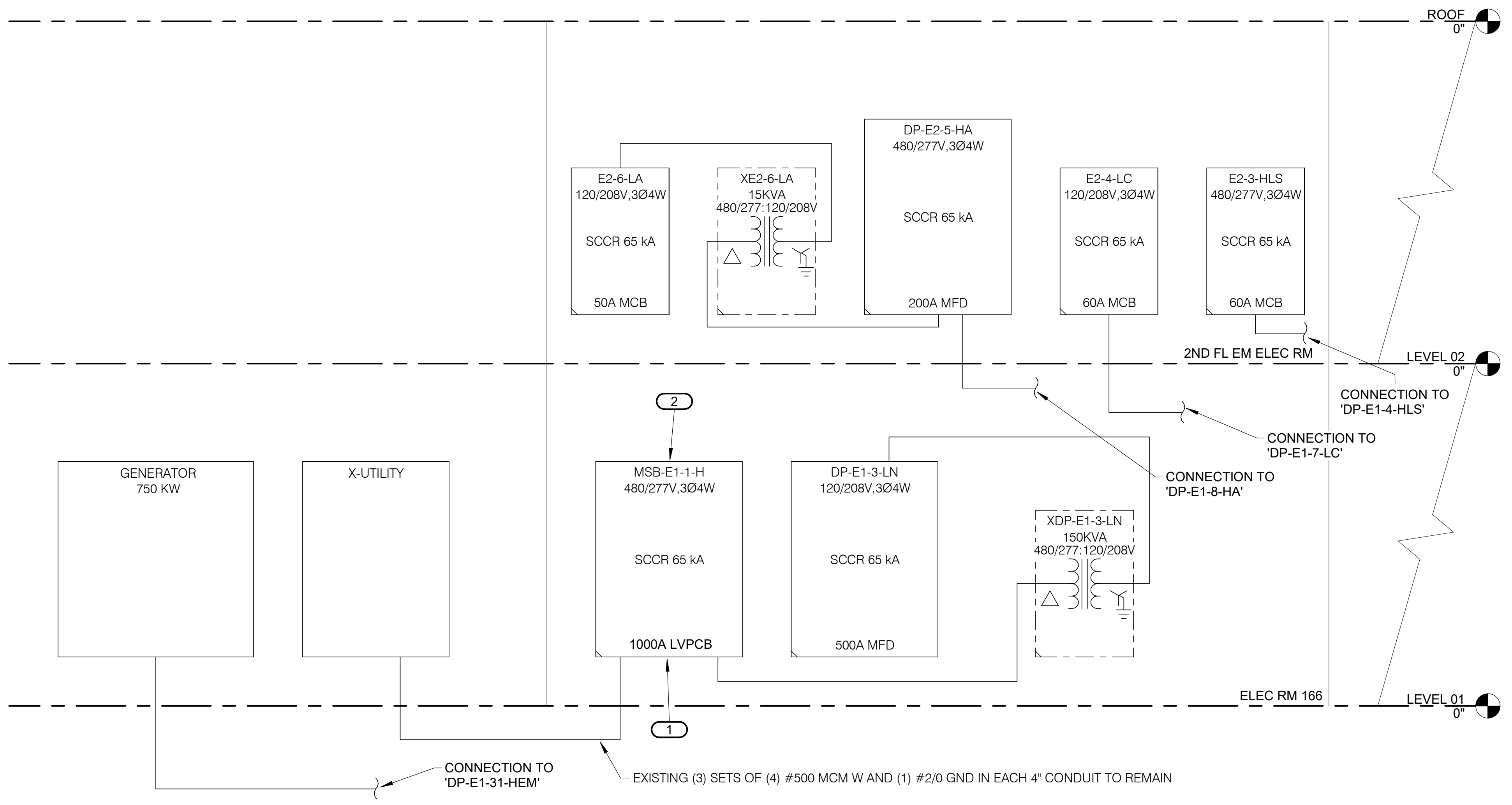
1 DEMO ELECTRICAL RISER DIAGRAM CONTINUED

NO SCALE


ROOF 0"
LEVEL 02 0"
LEVEL 01 0"
CONNECTION TO 'MSB-E1-1-H'
DP-E2-10-XRAY 480/277V,3Ø4W SCCR 65 kA 400A MFD
CONNECTION TO LOAD CENTER 'E2-9-XRAY'
XE2-14-XRAY 10KVA 480:120/240V
E2-2-LN 120/208V,3Ø4W SCCR 65 kA 400A MCB
E2-1-HN 480/277V,3Ø4W SCCR 65 kA 225A MCB
X-E2-XRAY 7.5KVA 480:120/240V
CONNECTION TO LOAD CENTERS 'E2-8-XRAY' AND 'E2-9-XRAY'
CONNECTION TO 'DP-E1-3-LN'
CONNECTION TO 'MSB-E1-1-H'
2ND FL ELEC RM
CONNECTION TO ATS-15
CONNECTION TO ATS-14
CONNECTION TO 'MSB-E1-1-H'
CONNECTION TO 'MSB-E1-1-H'
CONNECTION TO 'MSB-E1-1-H'
DP-E1-7-LC 120/208V,3Ø4W SCCR 65 kA 250A MFD
XDP-E1-7-LC 75KVA 480/277:120/208V
DP-E1-6-HC 480/277V,3Ø4W SCCR 65 kA 250A MFD
XDP-E1-5-LLS 45KVA 480/277:120/208V
DP-E1-4-HLS 480/277V,3Ø4W SCCR 65 kA 200A MFD
DP-E1-5-LLS 120/208V,3Ø4W SCCR 65 kA 150A MFD
DP-E1-20-HC 480/277V,3Ø4W SCCR 65 kA 200A MLO
DP-E1-8-HA 480/277V,3Ø4W SCCR 65 kA 400A MFD
E1-11-LA 120/208V,3Ø4W SCCR 65 kA 100A MCB
XE1-11-LA 30KVA 480/277:120/208V
N E
ATS-14 LIFE SAFETY 480V 4 POLES 200A
ATS-15 CRITICAL 480V 4 POLES 260A
ATS-16 EQUIPMENT 480V 4 POLES 400A
DP-E1-31-HEM 480/277V,3Ø4W SCCR 65 kA 1000A MCB
ELEC RM 165
MECH 164

2 DEMO ELECTRICAL RISER DIAGRAM - EMERGENCY POWER ELECTRICAL ROOM

NO SCALE


ROOF 0"
LEVEL 02 0"
LEVEL 01 0"
E2-6-LA 120/208V,3Ø4W SCCR 65 kA 50A MCB
XE2-6-LA 15KVA 480/277:120/208V
DP-E2-5-HA 480/277V,3Ø4W SCCR 65 kA 200A MFD
E2-4-LC 120/208V,3Ø4W SCCR 65 kA 60A MCB
E2-3-HLS 480/277V,3Ø4W SCCR 65 kA 60A MCB
2ND FL EM ELEC RM
CONNECTION TO 'DP-E1-4-HLS'
CONNECTION TO 'DP-E1-7-LC'
CONNECTION TO 'DP-E1-8-HA'
2
GENERATOR 750 KW
X-UTILITY
MSB-E1-1-H 480/277V,3Ø4W SCCR 65 kA 1000A LVPCB
DP-E1-3-LN 120/208V,3Ø4W SCCR 65 kA 500A MFD
XDP-E1-3-LN 150KVA 480/277:120/208V
ELEC RM 166
1
CONNECTION TO 'DP-E1-31-HEM'
EXISTING (3) SETS OF (4) #500 MCM W AND (1) #2/0 GND IN EACH 4" CONDUIT TO REMAIN

3 DEMO ELECTRICAL RISER DIAGRAM - NORMAL POWER ELECTRICAL ROOM

NO SCALE

KEYNOTES: #

1. AS PART OF BASE BID, REMOVE EXISTING 1000A TRIP SENSOR PLUG FROM EXISTING 1200A FRAME MAIN CIRCUIT BREAKER OF EXISTING 1200A BUSSED MAIN SWITCHBOARD.
2. AS AN ALTERNATE BID, DISCONNECT AND REMOVE EXISTING SWITCHBOARD TO ALLOW FOR INSTALLATION OF NEW LARGER SWITCHBOARD.

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BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
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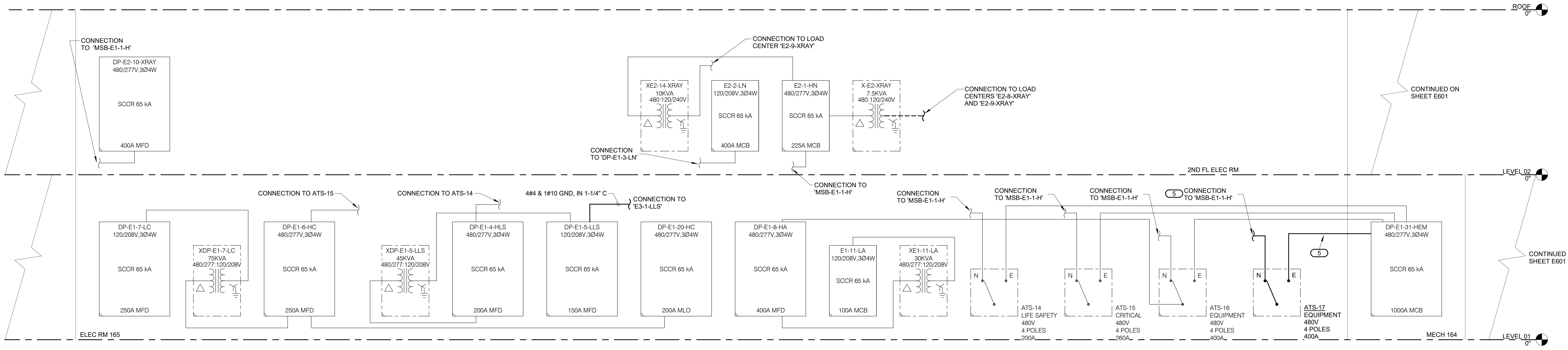
E500

ELECTRICAL DEMO RISER

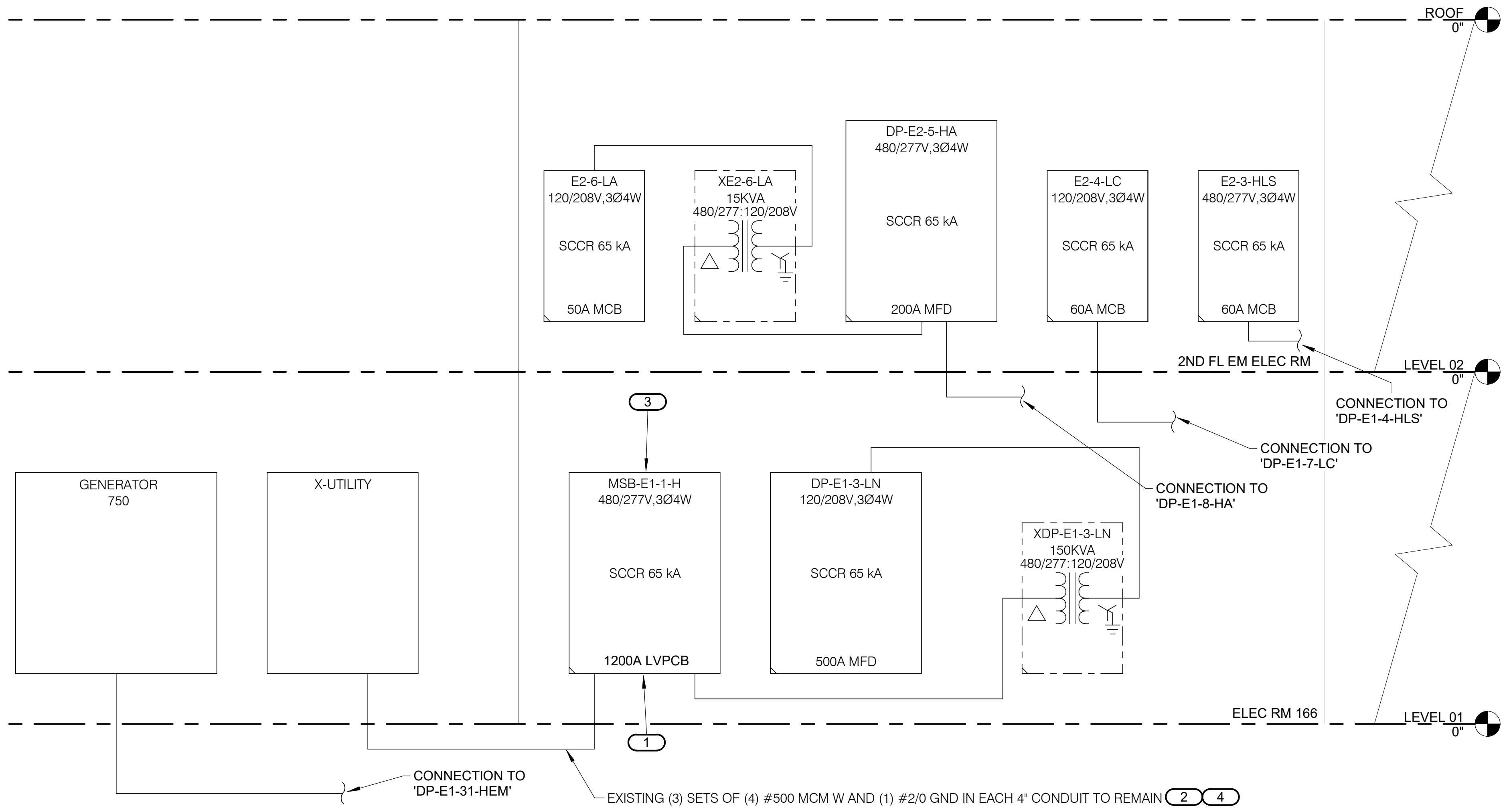
KEYNOTES: (#)

1. PROVIDE NEW 1200A TRIP SENSOR PLUG WITHIN EXISTING 1200A FFRAME MAIN CIRCUIT BREAKER OF EXISTING 1200A BUSSED MAIN SWITCHBOARD.
2. FURNISH AND INSTALL A FOURTH SET OF PARALLED CONDUCTORS FROM UTILITY TRANSFORMER TO MAIN SWITCHBOARD. THE FOURTH SET SHALL MATCH THE SIZE OF THE EXISTING THREE SETS.
3. AS AN ALTERNATE BID, FURNISH AND INSTALL A NEW 1600A MAIN SWITCHBOARD WITH A 1600A MAIN CIRCUIT BREAKER. FURNISH WITH BRANCH CIRCUIT BREAKERS OF QUANTITY AND SIZE TO MATCH EXISTING AND TO RE-FEED ALL EXISTING LOADS CURRENTLY SERVED BY SWITCHBOARD.
4. AS AN ALTERNATE BID, FURNISH AND INSTALL A FIFTH SET OF PARALLED CONDUCTORS FROM UTILITY TRANSFORMER TO NEW MAIN SWITCHBOARD. THE FIFTH SET SHALL MATCH THE SIZE OF THE EXISTING THREE SETS.
5. PROVIDE 4#500 & 1#3 GND, IN 3" C TO NEW 400A BRANCH CIRCUIT BREAKER IN INDICATED PANEL. NEW BREAKER SHALL BE INSTALLED IN EXISTING SPACE OF PANEL, SHALL BE ELECTRONIC TRIP, AND MATCH SHORT-CIRCUIT RATING AND TYPE OF EXISTING BREKAERS.



1 NEW ELECTRICAL RISER DIAGRAM - EMERGENCY POWER ELECTRICAL ROOM

NO SCALE



2 NEW ELECTRICAL RISER DIAGRAM - NORMAL POWER ELECTRICAL ROOM

NO SCALE

STATE OF MISSOURI
BRUCE ELDON HART
NUMBER E-22817
PROFESSIONAL ENGINEER
1/16/2023

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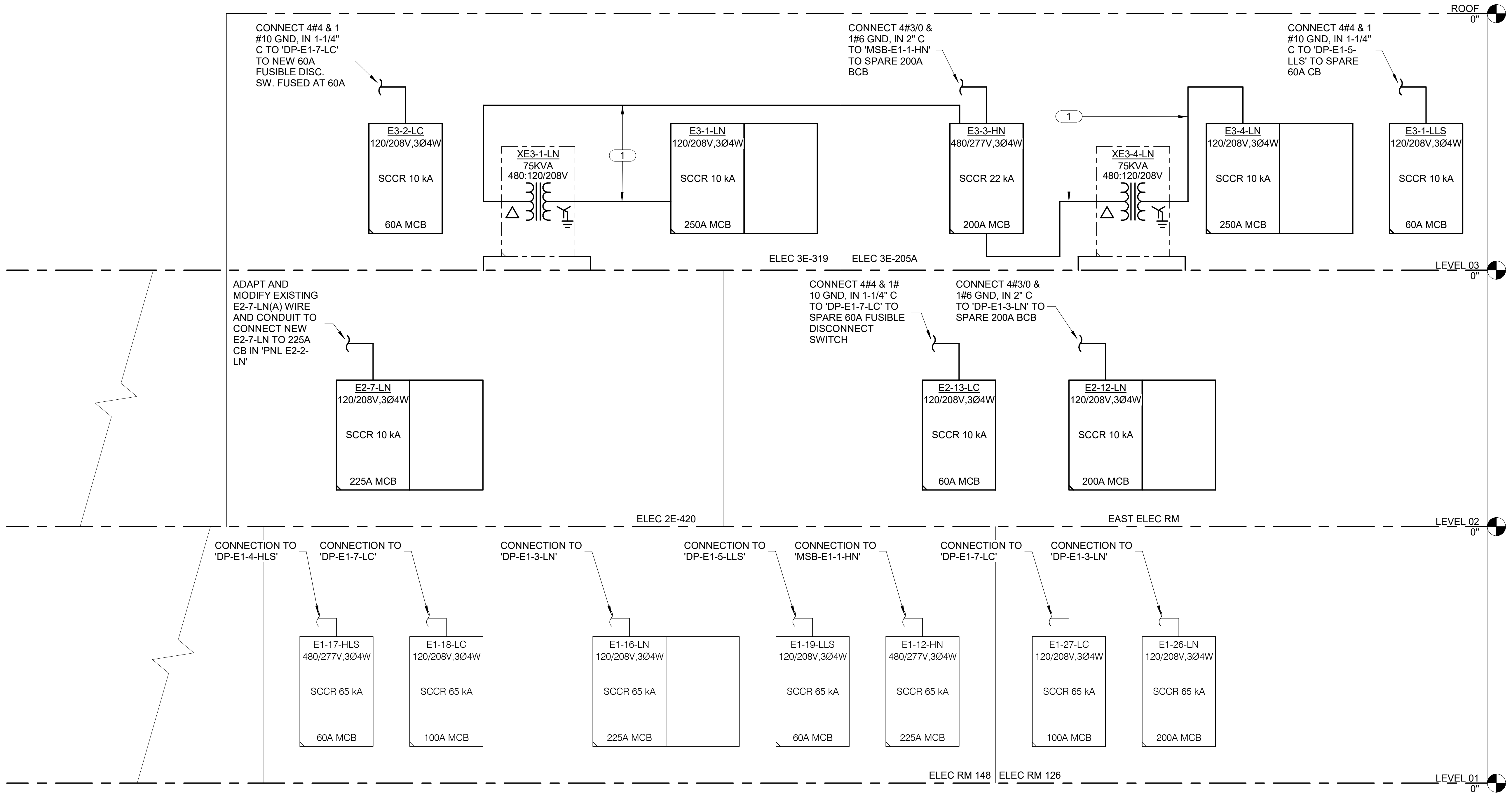
E501

ELECTRICAL NEW RISER

1/16/2023 7:21:33 PM

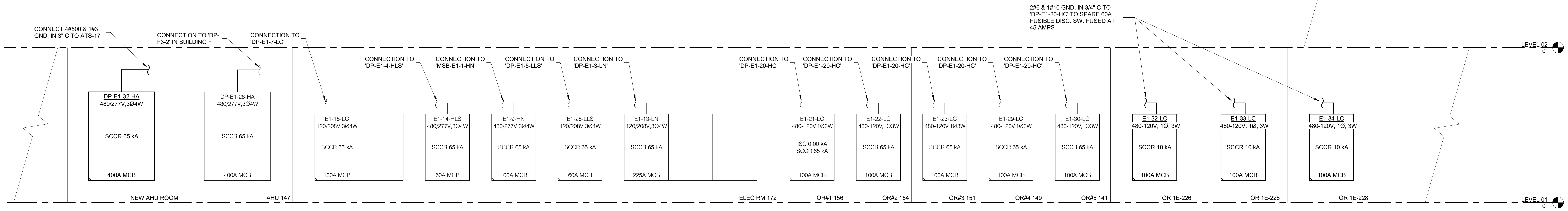
KEYNOTES: (#)

1. REFER TO TRANSFORMER WIRING DETAIL 2/E401 FOR WIRE SIZE, CONDUIT SIZE, AND MORE INFORMATION.



1 NEW ELECTRICAL RISER DIAGRAM CONTINUED

NO SCALE



2 NEW ELECTRICAL RISER DIAGRAM CONTINUED

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BIM 360://3-21037 SLE - ASC Expansion - Revit 2021/MEP21_21006783.00_SLH-East ASC Addition_C.rvt

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1/16/2023

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E502

ELECTRICAL NEW RISER CONT.

LED LUMINAIRE SCHEDULE

(DESC) DOOR:
FA - FLAT ALUMINUM
FS - FLAT STEEL
RA - REGRESSED ALUMINUM
RS - REGRESSED STEEL

FINISH:
PAF - PAINT AFTER FABRICATION
CFSA - COLOR-FINISH SELECTION BY ARCHITECT

DISTRIBUTION:
II - ANSI/IES TYPE 2 DISTRIBUTION
III - ANSI/IES TYPE 3 DISTRIBUTION
IV - ANSI/IES TYPE 4 DISTRIBUTION
V - ANSI/IES TYPE 5 DISTRIBUTION
A

BEAMWIDTH:
NSP - VERY NARROW SPOT
SP - SPOT
MD - MEDIUM
WD - WIDE
VWD - VERY WIDE
WW - WALL WASH

(L/L) LENS/LOUVER:
A - .125" ACRYLIC
B - BAFFLE/LOUVER
C - CLEAR ALZAK
F - FROSTED ACRYLIC
G - TEMPERED GLASS
K - KSH12 .125" ACRYLIC
K19 - KSH19 .156" ACRYLIC
M - MATTE DIFFUSE CLEAR
N - NONE
P - POLYCARBONATE
R - HIGH IMPACT DR ACRYLIC
SS - SEMI-SPECULAR CLEAR
O - OTHER (SEE DESCRIPTION)
[DESIGN SPECIFIC BLANKS]

(MTG) MOUNTING:
CL - CEILING SURFACE
CV - COVE
FR - FLANGED RECESSED
P - PERIMETER
PL - POLE
RE - RECESSED
SP - SUSPENDED
SU - SURFACE
UC - UNDER CABINET
WL - WALL
O - OTHER (SEE DESCRIPTION)

(WATT) PER: FIX - FIXTURE, FT - FOOT, LAMP

(TYPE) LED
LED - LIGHT EMITTING DIODE
TLED - TUBULAR LED LAMP
OLED - ORGANIC LED
DLED - DYNAMIC TUNABLE LED
RGB - COLOR CHANGING LED
RGBW - COLOR CHANGING + WHITE
RGBA - COLOR CHANGING + AMBER
RLED - RETROFIT LED
WLED - WARM DIM LED

(TYPE) DRIVER:
0-10V - 0-10V DIMMING
DALI - DIGITAL ADDRESSABLE
DMX - DIGITAL MULTIPLEX
EB - ELECTRONIC
ELV - ELECTRONIC LOW VOLTAGE
EM - EMERGENCY BATTERY
HL - HIGH/LOW (100%/50%) STEP DIM
LINE - LINE VOLTAGE DIMMING
ML - MULTI-LEVEL SWITCHING
MV - MULTI-VOLTAGE ELECTRONIC
REM - REMOTE
O - OTHER (SEE DESCRIPTION)

CATALOG NUMBER SHALL NOT BE CONSIDERED COMPLETE AND MATERIAL SHALL NOT BE ORDERED BY MANUFACTURER AND CATALOG NUMBER ONLY. THE COMPLETE DESCRIPTION AND THE SPECIFICATION SHALL BE COORDINATED WITH THE CATALOG NUMBER TO DETERMINE THE EXACT MATERIAL AND ACCESSORIES TO BE ORDERED. THE FIRST MANUFACTURER LISTED IS THE BASIS OF DESIGN.

VERIFY AND COORDINATE ALL CEILING TYPES WITH LUMINAIRE MOUNTING AND TRIM REQUIREMENTS PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
CONFIRM ALL COLORS AND FINISHES OF ALL LUMINAIRE COMPONENTS WITH ARCHITECT AND INTERIOR DESIGNER PRIOR TO THE RELEASE OF THE LUMINAIRE ORDER.
UNLESS INDICATED ON LIGHTING PLANS OR BELOW, REFER TO ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS, SECTIONS AND DETAILS FOR ALL SUSPENDED AND WALL MOUNTED LUMINAIRE MOUNTING HEIGHTS.

REFER TO SPECIFICATIONS ADDITIONAL INFORMATION AND REQUIREMENTS.
INTERIOR CORRELATED COLOR TEMPERATURE 3500K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.
EXTERIOR CORRELATED COLOR TEMPERATURE 3000K, COLOR RENDERING INDEX (CRI) AT OR ABOVE 80, UNLESS NOTED OTHERWISE.

				DIMENSIONS				WATT		LED			DRIVER		
ITEM	DESCRIPTION	L/L	MTG	L	W	H	DIA.	ANSI WATTS	PER	TYPE	QTY	DELIVERED LUMENS (MIN)	VOLTS	TYPE	MANUFACTURER AND MODEL
A	2'x4' TROFFER FIXTURE FOR LED SOURCE. 0.125" PRISMATIC ACRYLIC LENS. SPRING LOADED CAM ACTION LATCHED. FIXTURE STEEL DOOR WITH MITERED CORNERS. ALL FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL. FURNISH WITH ALL HARDWARE AS REQUIRED FOR MOUNTING.	A	RE	4'-0"	2'-0"	4 1/2"		48 W	FIX	LED	1	5900 LUMENS, 3500K CCT, 80 CRI	120-277 V	0-10V	WILLIAMS 50 LED SERIES
A1	SAME AS TYPE "A" BUT A 2'x2' TROFFER FIXTURE.	A	RE	2'-0"	2'-0"	4 1/2"		45 W	FIX	LED	1	5900 LUMENS, 3500K CCT, 80 CRI	277 V	0-10V	WILLIAMS 50 LED SERIES
A8	2'x4' FLANGE MOUNT LED TROFFER FIXTURE FOR MOUNTING IN HARD CEILING. 0.125" PRISMATIC ACRYLIC LENS. SPRING LOADED CAM ACTION LATCHED. FIXTURE STEEL DOOR WITH MITERED CORNERS. ALL FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL.	A	RE	4'-0"	2'-0"	4 1/2"		48 W	FIX	LED	1	5900 LUMENS, 3500K CCT, 80 CRI	277 V	0-10V	WILLIAMS 50 LED SERIES
B	5.25" RECESSED LED SLOT FIXTURE FOR USE IN WOOD WORK CEILING. OPAL COVER, CONTINUOUS LENGTH OF WOOD PANEL.	O	RE	8'-0"	5 1/4"	2"		5 W	FT	LED	1	550 LUMENS PER FOOT, 3500K CCT	277 V	REM, 0-10V	XAL PANO SERIES
C	DIRECT SURGICAL TROFFER WITH SYMMETRIC ACRYLIC SHIELDING AND TRIPLE GASKETING. SPRING LOADED CAM ACTION LATCHES. WHITE ANTI-MICROBIAL FINISH. PROVIDE CUSTOM LUMEN PACKAGE.	O	RE	4'-0"	2'-0"	4 1/2"		114 W	FIX	LED	1	14,000 LUMENS, 3500K CCT, 80 CRI	120-277 V	0-10V	WILLIAMS MDS
D	6" APERATURE DOWNLIGHT FOR LED SOURCE. WIDE DISTRIBUTION. FURNISH WITH SATIN GLOW ACCENT CONE AND FLUSH LENS. FURNISH WITH ALL REQUIRED MOUNTING HARDWARE.	O	RE				6"	37 W	FIX	LED	1	3000 LUMENS, 3500K CCT, 80 CRI	120-277V	0-10V	WILLIAMS 6DR SERIES
E	EMERGENCY UNIT, TWO ADJUSTABLE HEADS, WHITE THERMOPLASTIC HOUSING, WET LOCATION.	O	WL	1'-2"	6"	4 9/16"		2 W	FIX	LED	1	LED	277 V	EM	WILLIAMS EMER/MRW
G	NOMINAL 4' STRIP FIXTURE FOR LED SOURCE. ALL FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL. FURNISH WITH 14 GA WIREGUARD. SUSPEND FIXTURE AT 8'-0" A.F.F.	O	SP	4'-0"	4"	6"		36 W	FIX	LED	1	5300 LUMENS, 3500K CCT, 80 CRI	120-277 V	EB	WILLIAMS 76 LED SERIES
H	COVE LIGHT, 1" WIDE LED RGBCT TAPELIGHT WITH STADARD BRIGHTNESS, 90 CRI, 3500K. PROVIDE NON-CONTINUOUS LENGTHS FROM 5FT TO 8FT AS NEEDED, COMPLETE ILLUMINATED COVERAGE. PROVIDE EXTRUDED MOUNTING CHANNEL WITH FROSTED ACRYLIC ROUND LENS AND MOUNTING HARDWARE.	O	CL		1"	2"		4 W	FT	RGBW	1	340 LUMENS/FT	277 V	DMX	KELVIX - RGBCT COLOR CHANGING SERIES
J	2'x4' DIRECT/INDIRECT TROFFER FOR LED SOURCE. LINEAR SMOOTH CURVED PRISMATIC LENS WITH SURFACE RELIEF DIFFUSER. FIXTURE STEEL PAINTED BAKED WHITE ENAMEL. 1-1/2" TELESCOPING HOUSING. DLC LISTED. FURNISH WITH ALL HARDWARE AS REQUIRED FOR MOUNTING TYPE INDICATED.	O	RE	4'-0"	2'-0"	2 3/8"		25 W	FIX	LED	1	3000 LUMENS, 3500K CCT, 80 CRI	277 V	0-10V	WILLIAMS - PT SERIES
J1	SAME AS TYPE "J" BUT A 2'x2' TROFFER FIXTURE.	O	RE	2'-0"	2'-0"	2 3/8"		25 W	FIX	LED	1	3000 LUMENS, 3500K CCT, 80 CRI	277 V	0-10V	WILLIAMS - PT SERIES
K	ADA COMPLIANT WALL MOUNTED LIGHT FIXTURE. FLAT ACRYLIC LENS. PROVIDE OPTION LOWER LUMEN PACKAGE 1000 NOMINAL LUMENS PER FOOT.	O	WL	4'-0"	2 1/4"	4"		36 W	FIX	LED	1	1000 LUMENS PER FT, 3500K CCT, 80 CRI	277 V	EB	WILLIAMS WX2W SERIES
MB	2'x4' MULTI-FUNCTION PATIENT LIGHTING GRID MOUNT FIXTURE FOR 14800 LUMEN, 3500K, THREE FUNCTION LED PACKAGE AND AMBER NIGHT LIGHT. ALL FIXTURE STEEL POST PAINTED BAKED WHITE ENAMEL. OYSTER LINEN DIFFUSER. FURNISH WITH CONTROLLER TO ALLOW PATIENT CONTROL OF AMBIENT AND REDING LIGHT THRU PILLOW SPEAKER (FURNISHED BY NURSE CALL PROVIDER).	O	RE	4'-0"	2'-0"	4 1/2"		80 W	FIX	LED	1	3500 LUMENS, 3500K CCT, 80 CRI	120 V	EB	VISA LIGHTING UNITY SERIES LED
P	EXTERIOR DOWNLIGHT LED FIXTURE WITH 40 DEGREE OPTICS. EXTRUDED ALUMINUM HOUSING WITH TEMPERED GLASS LENS. FINISH TO BE SELECTED BY ARCHITECT. UL LISTED FOR WET LOCATIONS.	G	WL			1'-0"	6"	30 W	FIX	LED	1	858 LUMENS, 3000K CCT, 80 CRI	277 V	DMX	INSIGHT LIGHTING SCOPE LARGE SCONCE
P1	EXTERIOR RGB30 UPLIGHT LED FIXTURE WITH 40 DEGREE OPTICS. EXTRUDED ALUMINUM HOUSING WITH TEMPERED GLASS LENS. FINISH TO BE SELECTED BY ARCHITECT. UL LISTED FOR WET LOCATIONS.	G	WL			1'-0"	6"	30 W	FIX	RGB	1	858 LUMENS, 3000K CCT, 80 CRI	277 V	DMX	INSIGHT LIGHTING SCOPE LARGE SCONCE
P2	EXTERIOR RGB30 DOWNLIGHT LED FIXTURE WITH 40 DEGREE OPTICS. EXTRUDED ALUMINUM HOUSING WITH TEMPERED GLASS LENS. FINISH TO BE SELECTED BY ARCHITECT. UL LISTED FOR WET LOCATIONS.	G	WL			1'-0"	6"	30 W	FIX	RGB	1	858 LUMENS, 3000K CCT, 80 CRI	277 V	DMX	INSIGHT LIGHTING SCOPE LARGE SCONCE
R	THE PLANS AND INFORMATION SHOWN ARE REPRESENTATIVE OF OPTION A. THE INTENT IS FOR THE CONTRACTOR TO INCLUDE IN BID ALL LABOR AND MATERIALS FOR OPTION A. PRIOR TO PLACING FINAL ORDER FOR TYPE R LIGHT FIXTURES, COORDINATE OPTION A OR OPTION FIXTURE WITH THE ARCHITECT. OPTION A: 43" DIAMETER SLIM RING PENDANT FIXTURE FOR LED SOURCE. WHITE OPAL DIFFUSER. GESSO COLOR SHADE WITH WHITE DRESS PLATE FINISH. COORDINATE CEILING MOUNTING HARDWARE WITH ARCHITECT. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR STAINLESS STEEL CABLE LENGTHS. OPTION B: 4'-0" DIAMETER SLIM RING PENDANT FIXTURE FOR LED SOURCE. ACRYLIC DIFFUSER. WHITE FINISH. COORDINATE CEILING MOUNTING HARDWARE WITH ARCHITECT. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR CABLE LENGTHS.	O	SP			2 1/2"	3'-7"	50 W	FIX	LED	1	OPTION A: 4174 LUMENS OPTION B: 3,624 LUMENS	277 V	0-10V	OPTION A: LIGHT ART SLIM RING SERIES OPTION B: DELRAY UNO IO CIRCLES SERIES
T	6" APERATURE SQUARE DOWNLIGHT FOR LED SOURCE. COORDINATE FINISHES WITH ARCHITECT.	O	RE	6"	6"	0"		48 W	FIX	LED	1	4000 LUMENS, 3000K, 90 CRI	277 V	0-10V	PORTFOLIO LDSSQ6C SERIES
X	LED LIT EXIT SIGN. WHITE HOUSING WITH RED LETTERING. FURNISH WITH NECESSARY MOUNTING HARDWARE FOR CEILING OR WALL MOUNTING AND CONFIGURE FACES AND ARROWS AS SHOWN ON PLANS.	O	O		2"			5 W	FIX	LED	1	INTEGRAL LED	277 V	EB	WILLIAMS EXIT SERIES
Y	FROSTED CYLINDER OVER WHITE GLASS WITH A SATIN NICKEL FINISH PENDANT MOUNTED FIXTURE FOR LED SOURCE.	O	SP			9"	3"	5 W	FIX	LED	1	258 LUMENS, 3000K CCT, 90 CRI	277 V	ELV	TECH LIGHTING HORIZON
Z	CLEAR TRANSLUCENT CYLINDER OVER WHITE GLASS CYLINDER PENDANT FIXTURE WITH REPLACEABLE LED MODULE. SATIN NICKEL FINISH. FIELD CUTABLE SUSPENSION CABLE. FREEJACK MOUNTING WITH FLUSH CANOPY.	O	O				6"	16 W	FIX	LED	1	400 LUMENS, 3000K CCT, 90 CRI	277 V	0-10V	TECH LIGHTING ECHO

LIGHTING SEQUENCE OF OPERATION

NOTES:
1. {L##} DENOTES THE LIGHTING SEQUENCE OF OPERATIONS FOR THIS SPACE.
2. [#B] PUSH BUTTON REFERS TO SCENE QUANTITY. CONTROL STATION SHALL BE CAPABLE OF RAISE/LOWER AND SWITCHING ON/OFF AS INDICATED ON SHEETS AND THE LIGHTING SEQUENCE OF OPERATIONS {L##}. COORDINATE QUANTITIES OF BUTTONS FOR CONTROL STATIONS WITH LIGHTING CONTROL MANUFACTURER.
3. [Z#] DENOTES LIGHTING CONTROL ZONE. PROVIDE SEPARATE CONTROL OF EACH CONTROLLED ZONE. LUMINAIRES ASSOCIATED WITH THE SAME ZONE SHALL OPERATE TOGETHER WITHIN THE SAME PROGRAMMED SCENE.
4. a = SWITCH DESIGNATION FOR LIGHTING CONTROL
5. VERIFY AND COORDINATE ALL TIME CLOCK SETTINGS WITH OWNER PRIOR TO FINAL PROGRAMMING.
6. VERIFY AND COORDINATE ALL PUSH BUTTON WALL DEVICES AND QUANTITIES OF INDIVIDUAL BUTTONS WITH SCENES AND ZONES PER LOCATION.
7. VERIFY AND COORDINATE ALL PUSH BUTTON QUANTITIES AND SCENE NAMES WITH OWNER PRIOR TO SUBMITTING ENGRAVING TEMPLATE TO MANUFACTURER.

PLAN ID	LIGHTING SWITCHED
{LC1}	SEQUENCE: DIMMED LUMINAIRES ARE TIME CLOCK AND BMS SYSTEM CONTROLLED IN THIS SPACE. ON: THE LUMINAIRES TURN ON VIA TIME CLOCK AND BMS SYSTEM. UPON LOSS OF NORMAL POWER, THE SWITCHED EMERGENCY LUMINAIRES (AS SHOWN ON THE PLANS) SHALL TURN ON TO 100%. ADJUST: THE LUMINAIRES ARE RAISED / LOWERED VIA BMS SYSTEM. OFF: THE LUMINAIRES TURN OFF VIA TIME CLOCK AND BMS SYSTEM.
{LC2}	SEQUENCE: DAYLIGHT DIMMED LUMINAIRES ARE TIME CLOCK AND BMS SYSTEM CONTROLLED IN THIS SPACE. ON: THE LUMINAIRES TURN ON VIA TIME CLOCK AND BMS SYSTEM. UPON LOSS OF NORMAL POWER, THE SWITCHED EMERGENCY LUMINAIRES (AS SHOWN ON THE PLANS) SHALL TURN ON TO 100%. ADJUST: THE LUMINAIRES ARE RAISED / LOWERED VIA BMS SYSTEM, DAYLIGHT SENSOR, AND MANUAL WALL CONTROLLER(S). OFF: THE LUMINAIRES TURN OFF VIA TIME CLOCK AND BMS SYSTEM.
{LD1}	SEQUENCE: DIMMED LUMINAIRES ARE CONTROLLED IN THIS SPACE VIA WALL CONTROLLER(S). ON: THE LUMINAIRES TURN ON MANUALLY VIA WALL CONTROLLER(S). ADJUST: THE LUMINAIRES ARE RAISED / LOWERED MANUALLY VIA WALL CONTROLLER(S). OFF: THE LUMINAIRES TURN OFF MANUALLY VIA WALL CONTROLLER(S). AFTER THE SPACE HAS BEEN VACANT FOR 15 MINUTES, THE LUMINAIRES WILL AUTOMATICALLY TURN OFF VIA OCCUPANCY SENSOR.
{LD2}	SEQUENCE: DIMMED AND SWITCHED LUMINAIRES ARE CONTROLLED IN THIS SPACE VIA WALL CONTROLLER(S). ON: DIMMED AND SWITCHED LUMINAIRES ARE TURNED ON USING A WALL CONTROL. ADJUST: THE DIMMING LUMINAIRES ARE RAISED / LOWERED USING A WALL CONTROLLER. OFF: THE LUMINAIRES ARE TURNED OFF USING A WALL CONTROLLER. AFTER THE SPACE HAS BEEN VACANT FOR 30 MINUTES, THE LUMINAIRES WILL AUTOMATICALLY TURN OFF VIA OCCUPANCY SENSOR.
{LD3}	SEQUENCE: DIMMED AND SWITCHED LUMINAIRES ARE CONTROLLED IN THIS SPACE VIA WALL CONTROLLER(S). ON: DIMMED AND SWITCHED LUMINAIRES ARE TURNED ON VIA WALL CONTROLLER. ADJUST: THE DIMMING LUMINAIRES ARE RAISED/LOWERED VIA WALL CONTROLLER. OFF: THE LUMINAIRES ARE MANUALLY TURNED OFF VIA WALL CONTROLLER.
{LD4}	SEQUENCE: DIMMED LUMINAIRES ARE CONTROLLED IN THIS SPACE VIA WALL CONTROLLER(S). ON: THE LUMINAIRES TURN ON MANUALLY VIA WALL CONTROLLER(S). ADJUST: THE LUMINAIRES ARE RAISED / LOWERED MANUALLY VIA WALL CONTROLLER(S). OFF: THE LUMINAIRES TURN OFF MANUALLY VIA WALL CONTROLLER(S).
{LS1}	SEQUENCE: LUMINAIRES ARE VACANCY CONTROLLED IN THIS SPACE. ON: THE LUMINAIRES TURN ON MANUALLY VIA WALL CONTROLLER(S). OFF: THE LUMINAIRES TURN OFF MANUALLY VIA WALL CONTROLLER(S). AFTER THE SPACE HAS BEEN VACANT FOR 15 MINUTES, THE LUMINAIRES WILL AUTOMATICALLY TURN OFF VIA OCCUPANCY SENSOR.
{LS2}	SEQUENCE: LUMINAIRES ARE OCCUPANCY CONTROLLED IN THIS SPACE. ON: THE LIGHTS TURN ON WHEN OCCUPANCY IS DETECTED OR BY WALL CONTROLLERS. OFF: AFTER THE SPACE HAS BEEN VACANT FOR 5 MINUTES, THE LIGHTS WILL AUTOMATICALLY TURN OFF.
{LS3}	SEQUENCE: LUMINAIRES ARE CONTROLLED VIA WALL CONTROLLER(S) IN THIS SPACE. ON: THE LUMINAIRES TURN ON MANUALLY VIA WALL CONTROLLER(S). OFF: THE LUMINAIRES TURN OFF MANUALLY VIA WALL CONTROLLER(S).

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Missouri Certificate of Authority #F001325536

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STATE OF MISSOURI
BRUCE ELDON HART
NUMBER E-22817
PROFESSIONAL ENGINEER
1/16/2023

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CONSTRUCTION DOCUMENTS

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Date	01/16/2023
Job Number	3-21037
Drawn By	ZMB
Checked By	PLR

Revision

Number	Date	Description

E600

LIGHTING SCHEDULES

DISTRIBUTION PANEL DP-E1-28-HA

ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 400 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0 A

NOTES:

CKT	LOAD DESCRIPTION	Load	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	EX LOAD	237.27 kVA	1	150 A	150 A	--	--	--	--
2	EX LOAD	0 kVA	1	100 A	60 A	--	--	--	--
3	EX LOAD	0 kVA	1	60 A	20 A	--	--	--	--
4	EX LOAD	0 kVA	1	60 A	20 A	--	--	--	--
5	EX LOAD	0 kVA	1	60 A	20 A	--	--	--	--
6	EX LOAD	0 kVA	1	150 A	125 A	--	--	--	--
7	EX LOAD	0 kVA	1	150 A	125 A	--	--	--	--
8	EX LOAD	0 kVA	1	15 A	15 A	--	--	--	--
9	ELEVATOR 1E-101B	21.5 kVA	3	100 A	50 A			3#6 & 1#10 EGC IN 3/4" C.	
10	ELEVATOR 1E-101A	21.5 kVA	3	100 A	50 A			3#6 & 1#10 EGC IN 3/4" C.	
11									
12									
13									

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Spare	237.27 kVA	100.00%	237.27 kVA
Elevator	43 kVA	95.00%	40.85 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	280.27 kVA
TOTAL ESTIMATED DEMAND LOAD:	278.12 kVA
TOTAL CONNECTED AMPS:	337.11 A
TOTAL ESTIMATED DEMAND AMPS:	334.5 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

NEW DIST. PNL. DP-E1-32-HA

ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: AHU 1E-233

SOLID NEUTRAL
GROUND BUS

MAIN: 400 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0 A

NOTES:

CKT	LOAD DESCRIPTION	LOAD	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	AC-1 AHU 1E-233	7.48 kVA	3	100 A	20 A			3#12 & 1#12 EGC IN 3/4" C.	
2	AHU 1E-233 RETURN: 1E-233	46.95 kVA	3	100 A	80 A			3#e & 1#8 EGC IN 1 1/4" C.	
3	AHU 1E-233 SUPPLY: 1E-233	137.67 kVA	3	250 A	225 A			3#4/0 & 1#4 EGC IN 2 1/2" C.	
4	CRS-2 AHU 1E-233	0 kVA	3	150 A	0 A				
5	AHU E-9 RETURN: ROOF	24.11 kVA	3	50 A	40 A			3#8 & 1#10 EGC IN 1" C.	
6	AHU E-9 SUPPLY: ROOF	89.13 kVA	3	200 A	150 A			3#1/0 & 1#6 EGC IN 2" C.	
7									
8									
9									
10									
11									
12									

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	305.351 kVA	100.00%	305.351 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	305.35 kVA
TOTAL ESTIMATED DEMAND LOAD:	305.351 kVA
TOTAL CONNECTED AMPS:	367.28 A
TOTAL ESTIMATED DEMAND AMPS:	367.3 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

DISTRIBUTION PANEL DP-E2-10-XRAY

ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 400 A MFD
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0 A

NOTES:

CKT	LOAD DESCRIPTION	LOAD	POLES	FRAME	TRIP	TYPE	ACC.	WIRE AND RACEWAY	CIRCUIT KEY
1	X-RAY EQUIPMENT 2E-115	0 kVA	3	200 A	150 A			4#1/0 & 1#6 EGC IN 2" C.	
2	X-RAY EQUIPMENT 2E-113	0 kVA	3	200 A	150 A			4#1/0 & 1#6 EGC IN 2" C.	
3	X-RAY EQUIPMENT 2E-116	0 kVA	3	200 A	150 A			4#1/0 & 1#6 EGC IN 2" C.	
4	X-RAY EQUIPMENT 2E-117	0 kVA	3	200 A	150 A			4#1/0 & 1#6 EGC IN 2" C.	
5	X-RAY EQUIPMENT 2E-118	0 kVA	3	200 A	150 A			4#1/0 & 1#6 EGC IN 2" C.	
6	SPARE	0 kVA	1	200 A	150 A	--	--	--	--

LOAD SUMMARY (INCLUDES ALL TUBS IN THIS PANEL)

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND

TOTALS*	
TOTAL CONNECTED LOAD:	0.00 kVA
TOTAL ESTIMATED DEMAND LOAD:	0 kVA
TOTAL CONNECTED AMPS:	0.00 A
TOTAL ESTIMATED DEMAND AMPS:	0 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1-9-HN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 1E-215

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	C	A		B		C		WIRE SIZE C	G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EX LTS	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX LTS	2	--
--	3	EX LTS	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	EX LTS	4	--
--	5	EX LTS	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	EX LTS	6	--
	7	LTS: 1E-156, 1E-155, 1E-154,...	20 A	1	12	12	12	3/4"	3.12	0					--	--	--	--	1	20 A	EX LTS	8	--
	9	LTS: 1E-143, 1E-144, 1E-182,...	20 A	1	12	12	12	3/4"			3	0			--	--	--	--	1	20 A	EX LTS	10	--
	11	LTS: 1E-310, 1E-218A, 1E-216,...	20 A	1	12	12	12	3/4"					2.29	0	--	--	--	--	1	20 A	EX LTS	12	--
--	13	EX LTS	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX LTS	14	--
	15											0			--	--	--	--	1	20 A	EX LTS	16	--
	17																					18	
	19																					20	
	21																					22	
	23																					24	
	25																					26	
	27																					28	
	29																					30	
	31																					32	
	33																					34	
	35																					36	
	37																					38	
	39																					40	
	41																					42	

	A	B	C
Total Load:	3.12 kVA	3.00 kVA	2.29 kVA
Total Amps:	11.67	11.24	8.28

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	8.422 kVA	100.00%	8.422 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	8.42 kVA
TOTAL ESTIMATED DEMAND LOAD:	8.422 kVA
TOTAL CONNECTED AMPS:	10.13 A
TOTAL ESTIMATED DEMAND AMPS:	10.1 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1-12-HN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 1E-316

SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	C	A		B		C		WIRE SIZE C	G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EX STERILIZER	50 A	3	--	--	--	--	0	0					--	--	--	--	3	50 A	EX STERILIZER	2	--
--	3	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	4	--
--	5	--	--	--	--	--	--	--					0	0	--	--	--	--	--	--	--	6	--
--	7	EX STERILIZER	50 A	3	--	--	--	--	0	0.25					3/4"	12	12	12	1	20 A	LTS: 1E-313, 1E-311, 1E-312	8	
--	9	--	--	--	--	--	--	--			0	0			--	--	--	--	1	20 A	EX LTS	10	--
--	11	--	--	--	--	--	--	--					0	0	--	--	--	--	1	20 A	EX LTS: CANOPY	12	--
	13	ACR-1 VESTIBULE 1E-100	20 A	3	12	12	12	3/4"	0	1.3					3/4"	12	12	12	1	20 A	LTS: EXTERIOR	14	
--	15	--	--	--	--	--	--	--			0	0			--	--	--	--	1	20 A	EX LTS	16	--
--	17	--	--	--	--	--	--	--					0	2.66	3/4"	12	12	12	1	20 A	LTS: 1E-300C, 1E-300A, 1E-200...	18	
--	19	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX LTS	20	--
--	21	SPARE	20 A	1	--	--	--	--			0	0.97			3/4"	12	12	12	1	20 A	LTS: 1E-300A, 1E-200A, 1E-200...	22	
--	23	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	3	150 A	EX MRI TRUCK RECEPTACLE	24	--
--	25	EX LITHOTRIPER	150 A	3	--	--	--	--	0	0					--	--	--	--	--	--	--	26	--
--	27	--	--	--	--	--	--	--			0	0			--	--	--	--	--	--	--	28	--
--	29	--	--	--	--	--	--	--					0	--	--	--	--	--	1	--	SPACE	30	--
--	31	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	32	--
--	33	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	34	--
--	35	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	36	--
--	37	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	38	--
--	39	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	40	--
--	41	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	42	--

	A	B	C
Total Load:	1.55 kVA	0.97 kVA	2.66 kVA
Total Amps:	5.93	3.51	9.93

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	5.186 kVA	100.00%	5.186 kVA
Power	0 kVA	0.00%	0 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	5.19 kVA
TOTAL ESTIMATED DEMAND LOAD:	5.186 kVA
TOTAL CONNECTED AMPS:	6.24 A
TOTAL ESTIMATED DEMAND AMPS:	6.2 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1-13-LN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 1E-215

SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	C	A		B		C		WIRE SIZE C	G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	REC: RMS 1E-210, 1E-214	20 A	1	12	12	12	3/4"	1.08	1.44					3/4"	12	12	12	1	20 A	REC: RMS 1E-209, 1E-208	2	
	3	FB: BREAK/CONFERENCE...	20 A	1	12	12	12	3/4"			0.18	1.44			3/4"	12	12	12	1	20 A	REC: RMS 1E-207, 1E-205	4	
	5	REC: PRE CALL ANESTHESIA...	20 A	1	12	12	12	3/4"					1.26	1.44	3/4"	12	12	12	1	20 A	REC: RMS 1E-202G, 1E-202I	6	
	7	REC: RMS 1E-213, 1E-212	20 A	1	12	12	12	3/4"	1.26	1.44					3/4"	10	10	10	1	20 A	REC: RMS 1E-202E, 1E-202C	8	
	9	REC: STAFF SUPPORT /...	20 A	1	12	12	12	3/4"			1.26	1.44			3/4"	12	12	12	1	20 A	REC: RMS 1E-204, 1E-206	10	
	11	REC: RMS 1E-220, 1E-219,...	20 A	1	12	12	12	3/4"					0.9	1.44	3/4"	10	10	10	1	20 A	REC: RMS 1E-202F, 1E-202H	12	
	13	MICROWAVE: STAFF SUPPOR...	20 A	1	12	12	12	3/4"	1	1.44					3/4"	10	10	10	1	20 A	REC: RMS 1E-202B, 1E-202D	14	
	15	DISH WASHER: STAFF...	20 A	1	12	12	12	3/4"			1	1.44			3/4"	10	10	10	1	20 A	REC: RMS PRE/POST OR...	16	
	17	FRIDGE: STAFF SUPPORT /...	20 A	1	10	10	10	3/4"					1.5	1.44	3/4"	8	8	8	1	20 A	REC: RMS 1E-173, 1E-174	18	
	19	FRIDGE: STAFF SUPPORT /...	20 A	1	10	10	10	3/4"	1.5	1.08					3/4"	12	12	12	1	20 A	REC: RMS 1E-209, 1E-209A,...	20	
	21	MICROWAVE: STAFF SUPPOR...	20 A	1	12	12	12	3/4"			0.18	1.08			3/4"	12	12	12	1	20 A	REC: RMS 1E-207, 1E-205,...	22	
	23	COFFEE: STAFF SUPPORT /...	20 A	1	10	10	10	3/4"					1.5	1.08	3/4"	12	12	12	1	20 A	REC: RMS 1E-204, 1E-206,...	24	
	25	REC: RMS 1E-224, 1E-223,...	20 A	1	12	12	12	3/4"	0.9	0.72					3/4"	12	12	12	1	20 A	REC: 23-HR NURSE AND...	26	
	27	REC: 1E-226	20 A	1	10	10	10	3/4"			0.9	1			3/4"	12	12	12	1	20 A	MFD: 23-HR NURSE AND...	28	
	29	PRINTERS: 1E-226	20 A	1	12	12	12	3/4"					0.6	1.08	3/4"	10	10	10	1	20 A	REC: RMS 1E-173, 1E-174,...	30	
	31	FRIDGE: NOURISH 1E-225	20 A	1	12	12	12	3/4"	0.75	0.9					3/4"	10	10	10	1	20 A	REC: MEDICAL DIRECTOR...	32	
	33	MICROWAVE: NOURISH 1E-225	20 A	1	10	10	10	3/4"			1	1.44			3/4"	8	8	8	1	20 A	REC: RMS 1E-165, 1E-168	34	
	35	ICE MACHINE: NOURISH 1E-225	20 A	1	12	12	12	3/4"					0.5	1.08	3/4"	10	10	10	1	20 A	REC: OR NURSE STATION...	36	
	37	FRIDGE: OR CLEAN 1E-169	20 A	1	10	10	10	3/4"	0.75	1.08					3/4"	10	10	10	1	20 A	REC: OR NURSE STATION...	38	
	39	FRIDGE: OR CLEAN 1E-169	20 A	1	10	10	10	3/4"			0.75	0.2			3/4"	10	10	10	1	30 A	BLANK WARM: MED ALCOVE...	40	
	41	WARM CAB: OR CLEAN 1E-169	30 A	1	10	10	10	3/4"					0.3	0.6	3/4"	12	12	12	1	20 A	PRINTERS: 1E-165, 1E-163	42	
	43	REC: RMS 1E-163, 1E-164,...	20 A	1	10	10	10	3/4"	1.08	0.5					3/4"	12	12	12	1	20 A	ICE MACHINE: MED ALCOVE...	44	
	45	REC: BUSINESS OFFICE...	20 A	1	8	8	8	3/4"			1.08	0.3			3/4"	12	12	12	1	20 A	FB: BUSINESS OFFICE (FUTUR...	46	
	47	REC: BUSINESS OFFICE...	20 A	1	8	8	8	3/4"					1.08	1	3/4"	8	8	8	1	20 A	MFD: BUSINESS OFFICE...	48	
	49	REC: BUSINESS OFFICE...	20 A	1	8	8	8	3/4"	1.26	1.26					3/4"	8	8	8	1	20 A	REC: IT OFFICE 1E-183	50	
	51	REC: IT ROOM	20 A	1	12	12	12	3/4"			0.18	1.26			3/4"	10	10	10	1	20 A	REC: CORRIDORS 1E-200	52	
	53	REC: CORRIDORS 1E-176,...	20 A	1	8	8	8	3/4"					1.08	0.9	3/4"	12	12	12	1	20 A	SCRUBS: WOMEN'S LOCKER (...	54	
	55	SCRUBS: MEN'S LOCKER (28...	20 A	1	12	12	12	3/4"	0.6	0.6					3/4"	12	12	12	1	20 A	SCRUBS: WOMEN'S LOCKER (...	56	
	57	REC: RMS 1E-218, 1E-216,...	20 A	1	10	10	10	3/4"			1.44	0.5			3/4"	12	12	12	1	20 A	CRYOSTAT: SPECIMEN PICKU...	58	
	59	REC: RMS 1E-230, 1E-300A,...	20 A	1	10	10	10	3/4"					1.08	1	3/4"	12	12	12	1	20 A	MFD: STERILE CORRIDOR...	60	
	61	BLANKET WARM: SUBSTERILE...	30 A	1	10	10	10	3/4"	0.5	1.08					3/4"	8	8	8	1	20 A	REC: RMS 1E-228, 1E-100C,...	62	
	63	BLANKET WARM: SUBSTERILE...	20 A	1							0.5	0			3/4"	12	12	12	1	20 A	ETC CONVERTER: ELEC 1E-215	64	
--	65	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	66	--
--	67	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	68	--
--	69	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	70	--
--	71	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	72	--
--	73	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	74	--
--	75	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	76	--
--	77	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	EX IT RACKS	78	--
--	79	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX IT RACKS	80	--
--	81	EX TUNNEL	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	EX TUNNEL	82	--
--	83	EX TUNNEL	20 A	1	--	--	--	--					0									84	
--	85	EX ROOF	20 A	1	--	--	--	--	0													86	
--	87	EX ROOF	20 A	1	--	--	--	--			0											88	
	89																					90	
	91																					92	
	93											0			--	--	--	--	1	20 A	SPARE	94	--
	95																					96	
	97																					98	
	99																					100	
	101																					102	
	103																					104	
	105																					106	
	107																					108	
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	111																					112	
	113																					114	
	115																					116	
	117																					118	
	119																					120	
	121																					122	
	123																					124	
	125																					126	

2

	A	B	C
Total Load:	22.22 kVA	18.57 kVA	20.86 kVA
Total Amps:	188.10	154.75	176.77

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	0 kVA	0.00%	0 kVA
Receptacles	61.65 kVA	58.11%	35.825 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	61.65 kVA
TOTAL ESTIMATED DEMAND LOAD:	35.825 kVA
TOTAL CONNECTED AMPS:	171.12 A
TOTAL ESTIMATED DEMAND AMPS:	99.4 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

ACI
BOLAND
ARCHITECTS

ACI/Boland, Inc.
Kansas City | St. Louis

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

Licensee's Certificate of Authority Number:
Missouri: #000958

CONSTRUCTION
DOCUMENTS

Saint Luke's
EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	01/16/2023
Job Number	3-21037
Drawn By	Author
Checked By	Checker

Revision

Number	Date	Description
2	2/10/23	Addendum 2

IMEG
1600 BALTIMORE
SUITE 300
KANSAS CITY, MO 64108
P: 816.842.8437
www.imegcorp.com

Missouri Certificate of Authority #F001325536

0 1 2 3
REF. SCALE IN INCHES
PROJECT #21006783.00

E700

PANEL SCHEDULES

PANEL E1-14-HLS

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 1E-215

SOLID NEUTRAL
GROUND BUS

MAIN: 60 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	C	A		B		C		WIRE SIZE C	G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	SPARE	20 A	1	--	--	--	--	0	0.53					3/4"	12	12	12	1	20 A	LTS: CANOPY	2	
--	3	SPARE	20 A	1	--	--	--	--			0											4	
	5																					6	
	7																					8	
	9																					10	
	11																					12	
	13																					14	
	15																					16	
	17																					18	
	19																					20	
	21																					22	
	23																					24	
	25																					26	
	27																					28	
	29																					30	
	31																					32	
	33																					34	
	35																					36	
	37																					38	
	39																					40	
	41																					42	

Total Load:	0.53 kVA	0.00 kVA	0.00 kVA
Total Amps:	1.93	0.00	0.00

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	0.533 kVA	100.00%	0.533 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	0.53 kVA
TOTAL ESTIMATED DEMAND LOAD:	0.533 kVA
TOTAL CONNECTED AMPS:	0.64 A
TOTAL ESTIMATED DEMAND AMPS:	0.6 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1-17-HLS

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 1E-316

SOLID NEUTRAL
GROUND BUS

MAIN: 60 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	C	A		B		C		WIRE SIZE C	G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EX LTS	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX LTS	2	--
--	3	EX LTS	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	EX LTS	4	--
--	5	EX LTS	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	EX LTS	6	--
--	7	EX LTS	20 A	1	--	--	--	--	0	2.71					3/4"	12	12	12	1	20 A	LTS: 1E-100G, 1E-100N-1,...	8	
--	9	SPARE	20 A	1	--	--	--	--			0	2.24			3/4"	8	8	10	1	20 A	LTS: SITE LIGHTING	10	
--	11	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	12	--
--	13	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	14	--
--	15	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	16	--
--	17	SPARE	20 A	1	--	--	--	--					0									18	
	19																					20	
	21																					22	
	23																					24	
	25																					26	
	27																					28	
	29																					30	
	31																					32	
	33																					34	
	35																					36	
	37																					38	
	39																					40	
	41																					42	

2

Total Load:	2.71 kVA	2.24 kVA	0.00 kVA
Total Amps:	11.05	9.33	0.00

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	2.714 kVA	100.00%	2.714 kVA
Power	2.24 kVA	100.00%	2.24 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	4.95 kVA
TOTAL ESTIMATED DEMAND LOAD:	4.954 kVA
TOTAL CONNECTED AMPS:	5.96 A
TOTAL ESTIMATED DEMAND AMPS:	6 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1-15-LC

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 1E-215

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	C	A		B		C		WIRE SIZE C	G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	REC: 23-HR 1E-209	20 A	1	12	12	12	3/4"	0.9	0.9					3/4"	12	12	12	1	20 A	REC: 23-HR 1E-206	2	
--	3	EX ELEV CAB LTS	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	EX TEMP CONTROL XFMR	4	--
	5	REC: 23-HR 1E-208	20 A	1	12	12	12	3/4"					0.9	0	--	--	--	--	1	20 A	EX TEMP CONTROL XFMR	6	--
--	7	EX ELEV RECEPT	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX TEMP CONTROL XFMR	8	--
	9	REC: 23-HR 1E-207	20 A	1	12	12	12	3/4"			0.9	0.9			3/4"	12	12	12	1	20 A	REC: 23-HR 1E-204	10	
	11	REC: 23 HR 1E-205	20 A	1	12	12	12	3/4"					0.9	0.72	3/4"	12	12	12	1	20 A	REC: 23-HR NURSE AND...	12	
	13	REC: PRE/POST OR 1E-202I	20 A	1	12	12	12	3/4"	0.9	0.9					3/4"	12	12	12	1	20 A	REC: PRE-POST OR 1E-202H	14	
	15	REC: PRE/POST OR 1E-202G	20 A	1	12	12	12	3/4"			0.9	0			--	--	--	--	1	20 A	EX SUMP PUMP	16	--
	17	REC: PRE/POST OR 1E-202E	20 A	1	12	12	12	3/4"					0.9	0.9	3/4"	12	12	12	1	20 A	REC: PRE/POST OR 1E-202F	18	
	19	REC: PRE/POST OR 1E-202C	20 A	1	12	12	12	3/4"	0.9	0.9					3/4"	10	10	10	1	20 A	REC: PRE/POST OR 1E-202D	20	
	21	REC: PRE/POST OR 1E-202A	20 A	1	12	12	12	3/4"			0.9	0.9			3/4"	12	12	12	1	20 A	REC: PRE-POST OR 1E-202B	22	
	23	REC: PRE/POST OR 1E-175	20 A	1	12	12	12	3/4"					0.9	0.5	3/4"	12	12	12	1	20 A	CRASH CART: ALCOVE 1E-201	24	
	25	REC: PRE/POST OR 1E-174	20 A	1	12	12	12	3/4"	0.9	0.75					3/4"	12	12	12	1	20 A	FRIDGE: MEDS 1E-176	26	
	27	REC: PRE/POST OR 1E-173	20 A	1	12	12	12	3/4"			0.9	0.5			3/4"	12	12	12	1	20 A	CRASH CART: OR NURSE...	28	
	29	FRIDGE: MED ALCOVE 1E-166	20 A	1	12	12	12	3/4"					0.75	0	--	--	--	--	1	20 A	EX LOAD	30	--
--	31	EX LOAD	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX LOAD	32	--
--	33	EX LOAD	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	EX LOAD	34	--
--	35	EX LOAD	20 A	1	--	--	--	--					0	1	3/4"	12	12	12	1	20 A	FREEZER: SUBSTERILE (SM)...	36	
--	37	EX LOAD	20 A	1	--	--	--	--	0	1					3/4"	12	12	12	1	20 A	FREEZER: SUBSTERILE 1E-228	38	
--	39	EX LOAD	20 A	1	--	--	--	--			0	0							1	0 A	AHU-E-11	40	
--	41	EX LOAD	20 A	1	--	--	--	--					0	0					1	0 A	Power	42	
--	43	EX LOAD	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX IT	44	--
--	45	EX DOOR CONTROLLER	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	EX IT	46	--
--	47	EX IT	30 A	2	--	--	--	--					0	0	--	--	--	--	1	20 A	EX IT	48	--
--	49	--	--	--	--	--	--	--	0	0					--	--	--	--	1	20 A	EX IT RACK	50	--
--	51	EX LOAD	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	EX IT RACK	52	--
--	53	EX LOAD	20 A	1	--	--	--	--					0									54	
--	55	EX LOAD	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX ELEV EQUIP	56	--
	57	LTS: 1E-147, 1E-148	20 A	1	12	12	12	3/4"			1.25											58	
	59	LTS: 1E-145, 1E-146	20 A	1	12	12	12	3/4"					1.25									60	
	61	LTS: 1E-136, 1E-137, 1E-134,...	20 A	1	12	12	12	3/4"	1.33													62	
	63	LTS: 1E-149, 1E-151	20 A	1	12	12	12	3/4"			1.25											64	
	65	LTS: 1E-139A, 1E-139B, 1E-139...	20 A	1	12	12	12	3/4"					1.55									66	
	67	LTS: 1E-173, 1E-174, 1E-175,...	20 A	1	12	12	12	3/4"	0.89													68	
	69	LTS: 1E-209, 1E-208, 1E-206,...	20 A	1	12	12	12	3/4"			0.79											70	
	71																					72	
	73																					74	
	75																					76	
	77																					78	
	79																					80	
	81																					82	
	83																					84	

Total Load:	10.27 kVA	9.20 kVA	10.27 kVA
Total Amps:	86.98	76.65	87.00

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	8.324 kVA	100.00%	8.324 kVA
Power	0 kVA	0.00%	0 kVA
Receptacles	21.42 kVA	73.34%	15.71 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	29.74 kVA
TOTAL ESTIMATED DEMAND LOAD:	24.034 kVA
TOTAL CONNECTED AMPS:	82.56 A
TOTAL ESTIMATED DEMAND AMPS:	66.7 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1-18-LC

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 1E-316

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	C	A		B		C		WIRE SIZE C	G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	FREEZER: EXPANDED SPD...	20 A	1	12	12	12	3/4"	1	0.5					3/4"	12	12	12	1	20 A	CRASH CART:...	2	
	3	REC: ANESTHESIA GI...	20 A	1	12	12	12	3/4"			0.36	0.5			3/4"	12	12	12	1	20 A	CRASH CART:...	4	
	5	REC: ENDOSCOPY GI...	20 A	1	12	12	12	3/4"					0.36	0.5	3/4"	12	12	12	1	20 A	CRASH CART:...	6	
	7	REC & BOOM: GI PROCEDURE...	15 A	1	12	12	12	3/4"	0.48	0.36					3/4"	12	12	12	1	20 A	REC: ANESTHESIA GI...	8	
	9	REC: GI PROCEDURE 1E-145	20 A	1	12	12	12	3/4"			0.36	0.36			3/4"	12	12	12	1	20 A	REC: ENDOSCOPY GI...	10	
--	11	EX WARM SUB STERILE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	EX CUH	12	--
--	13	EX WARM SUB STERILE	20 A	1	--	--	--	--	0	0.48					3/4"	12	12	12	1	15 A	REC & BOOM: GI PROCEDURE...	14	
	15	REC: ANESTHESIA GI...	20 A	1	12	12	12	3/4"			0.36	0.36			3/4"	12	12	12	1	20 A	REC: GI PROCEDURE 1E-146	16	
	17	REC: ENDOSCOPY GI...	20 A	1	12	12	12	3/4"					0.36	0.36	3/4"	12	12	12	1	20 A	REC: ANESTHESIA GI...	18	
	19	REC & BOOM: GI PROCEDURE...	15 A	1	12	12	12	3/4"	0.48	0.36					3/4"	12	12	12	1	20 A	REC: ENDOSCOPY GI...	20	
	21	REC: GI PROCEDURE 1E-147	20 A	1	12	12	12	3/4"			0.36	0.48			3/4"	12	12	12	1	15 A	REC & BOOM: GI PROCEDURE...	22	
	23	PRINTERS: RMS 1E-146, 1E-145	20 A	1	12	12	12	3/4"					0.4	0.36	3/4"	12	12	12	1	20 A	REC: GI PROCEDURE...	24	
	25	PRINTERS: RMS 1E-147, 1E-148	20 A	1	12	12	12	3/4"	0.4	1.5					3/4"	12	12	12	1	20 A	TCP & LV-TFX: AHU 1E-233	26	
	27	HEAT TRACE: INSTRUMENT...	20 A	2							0											28	
--	29	--	--	--	--	--	--	--					0									30	
	31																					32	
	33																					34	
	35																					36	
	37																					38	
	39																					40	
	41																					42	

Total Load:	5.56 kVA	3.14 kVA	2.34 kVA
Total Amps:	47.36	27.19	19.50

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	2.7 kVA	100.00%	2.7 kVA
Receptacles	8.34 kVA	100.00%	8.34 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	11.04 kVA
TOTAL ESTIMATED DEMAND LOAD:	11.04 kVA
TOTAL CONNECTED AMPS:	30.64 A
TOTAL ESTIMATED DEMAND AMPS:	30.6 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1-16-LN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 1E-316

SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	C	A		B		C		WIRE SIZE C	G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EX STER	20 A	1	--	--	--	--	0	1.26									1	20 A	REC: RMS 1E-311, 1E-300C,...	2	
	3	REC: TMD 1E-152, 1E-176,...	20 A	1							1.26	0.3							1	20 A	REPTRAX: VENDOR ENTRANC...	4	
	5	REC: RMS 1E-152, 1E-176	20 A	1									0.9	0.2					1	20 A	PRINTER: MATERIALS...	6	
	7	TIMECLOCK: CORRIDOR...	20 A	1					0.18	1.26									1	20 A	REC: RMS 1E-156, 1E-155,...	8	
	9	REC: RESOURCE ROOM 1E-156	20 A	1							0.72	0.36							1	20 A	REC: INSTRUMENT...	10	
	11	REC: RESOURCE ROOM 1E-156	20 A	1									0.72	0.4					1	20 A	SCOPE DRYER: SCOPE...	12	
	13	SCOPE WASH: INSTRUMENT...	20 A	1					1.2	0.4									1	20 A	SCOPE DRYER: SCOPE...	14	
	15	SCOPE WASH: INSTRUMENT...	20 A	1							1.2	0.36							1	20 A	REC: INSTRUMENT...	16	
	17	SCOPE WASH: INSTRUMENT...	20 A	1									1.2	0.36					1	20 A	REC: INSTRUMENT...	18	
	19	SCOPE WASH: INSTRUMENT...	20 A	1					1.2	0.7									1	20 A	BOOM & CHAIR: PROCEDURE...	20	
	21	BOOM & CHAIR: PROCEDURE...	20 A	1							0.7	0.5							1	20 A	WOW STATION: PROCEDURE...	22	
	23	WOW STATION: PROCEDURE...	20 A	1									0.5	0.54					1	20 A	REC: PROCEDURE 1E-149	24	
	25	REC: PROCEDURE 1E-151	20 A	1					0.54	0.54									1	20 A	REC: PROCEDURE 1E-149	26	
	27	REC: PROCEDURE 1E-151	20 A	1							0.54	0			--	--	--	--	1	20 A	EX STR CONT	28	--
	29	CAB-1	20 A	1									0	0.54					1	20 A	REC: GI PROCEDURE 1E-145	30	
	31	CAB-2 CREDENTIAL MANAGER...	20 A	1					0	0.54									1	20 A	REC: GI PROCEDURE 1E-146	32	
	33	CAB-3 SEMI-RESTRICTED...	20 A	1							0	0.54							1	20 A	REC: GI PROCEDURE 1E-147	34	
--	35	EX STERILIZER	20 A	1	--	--	--	--					0	0.54					1	20 A	REC: GI PROCEDURE...	36	
--	37	EX OR #3	20 A	1	--	--	--	--	0	0.36									1	20 A	REC: OR 1E-227	38	
--	39	EX OR #3	20 A	1	--	--	--	--			0	0.36							1	20 A	REC: OR 1E-227	40	
	41	REC: OR (LARGE) 1E-229	20 A	1									0.36	0.36					1	20 A	REC: OR (LARGE) 1E-229	42	
--	43	EX OR #2	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX OR #1	44	--
--	45	EX OR #2	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	EX OR #1	46	--
--	47	EX #3 LIGHT CONT.	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	EX PLUG MOLD STER	48	--
--	49	EX #3 LIGHT CONT.	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX PLUG MOLD STER	50	--
--	51	EX #3 LIGHT CONT.	20 A	1	--	--	--	--			0	0.36							1	20 A	REC: OR 1E-231	52	
	53	REC: OR 1E-231	20 A	1									0.36	1.08					1	20 A	REC: RMS 1E-120, 1E-119,...	54	
	55	FRIDGE: GI STORAGE/BREAK...	20 A	1					1.5	1									1	20 A	MFD: GI NURSE STATION 1E-120	56	
	57	ICE MAKER: NOURISH 1E-123	20 A	1							0.5	0.6							1	20 A	TVS: WAITING 1E-102	58	
	59	UE E-01 AHU 1E-233	20 A	1									0	3.33					3	40 A	ULTRASONIC:...	60	
	61	UE E-02 AHU 1E-233	20 A	1					0	3.33					--	--	--	--	--	--	--	62	--
	63	CAB-4	20 A	1							0	3.33			--	--	--	--	--	--	--	64	--
	65	NEPTUNE:...	20 A	1									0.5	0.5					1	20 A	NEPTUNE:...	66	
	67	REC: RMS 1E-303-1, 1E-315A	20 A	1					0.54	0									1	20 A	AHU-E-8 LTS AHU 1E-233	68	
	69	ULTRASONIC:...	40 A	3							3.33											70	
--	71	--	--	--	--	--	--	--					3.33									72	
--	73	--	--	--	--	--	--	--	3.33													74	
	75																					76	
	77																					78	
	79																					80	
	81																					82	
	83																					84	

Total Load:	17.89 kVA	14.97 kVA	15.73 kVA
Total Amps:	150.03	124.72	132.03

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	21 kVA	100.00%	21 kVA
Receptacles	27.58 kVA	68.13%	18.79 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	48.58 kVA
TOTAL ESTIMATED DEMAND LOAD:	39.79 kVA
TOTAL CONNECTED AMPS:	134.84 A
TOTAL ESTIMATED DEMAND AMPS:	110.4 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1-19-LLS

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 1E-316

SOLID NEUTRAL
GROUND BUS

MAIN: 60 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	N	G	C	A		B		C		WIRE SIZE C	G	N	H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	MED GAS ALARM: GI...	20 A	1	12	12	12	3/4"	0.4	0					--	--	--	--	1	20 A	EX LOAD	2	--
--	3	EX LOAD	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	EX LOAD	4	--
--	5	EX LOAD	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	EX LOAD	6	--
--	7	EX LOAD	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX LOAD	8	--
--	9	EX LOAD	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	EX LOAD	10	--
--	11	EX LOAD	20 A	1	--	--	--	--					0	0.3	3/4"	12	12	12	1	20 A	MED GAS ALARM: OR	12	
--	13	EX LOAD	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	EX LOAD	14	--
	15	MED GAS MASTER ALARM:...	20 A	1	12	12	12	3/4"			0.2	0			--	--	--	--	1	20 A	EX LOAD	16	--
	17	MED GAS ALARM: 1E-100G,...	20 A	1	12	12	12	3/4"					0.3	0	--	--	--	--	1	20 A	EX LOAD	18	--
--	19	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	20	--
--	21	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	22	--
--	23	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	24	--
--	25	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	26	--
--	27	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	28	--
--	29	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	30	--
--	31	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	32	--
--	33	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	34	--
--	35	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	36	--
--	37	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	38	--
--	39	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	40	--
--	41	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	42	--

Total Load:	0.40 kVA	0.20 kVA	0.60 kVA
Total Amps:	3.59	1.67	5.26

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	1.2 kVA	100.00%	1.2 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	1.20 kVA
TOTAL ESTIMATED DEMAND LOAD:	1.2 kVA
TOTAL CONNECTED AMPS:	3.33 A
TOTAL ESTIMATED DEMAND AMPS:	3.3 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

IMEG
1600 BALTIMORE
SUITE 300
KANSAS CITY, MO 64108
P: 816.842.8437
www.imegcorp.com

Missouri Certificate of Authority #F001325536

0 1 2 3
REF. SCALE IN INCHES
PROJECT #21006783.00

BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

ACI
BOLAND
ARCHITECTS

ACI/Boland, Inc.
Kansas City | St. Louis

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

Licensee's Certificate of Authority Number:
Missouri: #000958

CONSTRUCTION DOCUMENTS

Saint Luke's
EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	01/16/2023
Job Number	3-21037
Drawn By	ZMB
Checked By	PLR

Revision

Number	Date	Description
2	2/10/23	Addendum 2

E701

PANEL SCHEDULES

2/10/2023 4:07:19 PM

BIM 360://3-21037 SLE - ASC Expansion - Revit 2021/MEP21_21006783.00_SLH-East ASC Addition_C.rvt

PANEL E1-26-LN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 1E-162

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE				A		B		C		WIRE SIZE				OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G	C							C	G	N	H	P	AMPS			
	1	REC: RMS 1E-110, 1E-111	20 A	1	12	12	12	3/4"	0.9	1.44					3/4"	12	12	12	1	20 A	REC: RMS 1E-137, 1E-136	2	
	3	SCANNERS: 1E-108-2, 1E-109-1	20 A	1	12	12	12	3/4"			0.6	1.44			3/4"	12	12	12	1	20 A	REC: RMS 1E-132, 1E-134	4	
	5	REC: RMS 1E-108-2, 1E-109-1	20 A	1	12	12	12	3/4"					1.08	1.44	3/4"	12	12	12	1	20 A	REC: RMS 1E-130, 1E-128	6	
	7	REC: RECEPTION 1E-107	20 A	1	12	12	12	3/4"	1.08	1.44					3/4"	12	12	12	1	20 A	REC: RMS 1E-126, 1E-124	8	
	9	MFD: RECEPTION 1E-107	20 A	1	12	12	12	3/4"			1	1.44			3/4"	12	12	12	1	20 A	REC: RMS 1E-127, 1E-125	10	
	11	REC: RMS 1E-106-2, 1E-103-2	20 A	1	12	12	12	3/4"					1.08	1.44	3/4"	12	12	12	1	20 A	REC: RMS 1E-131, 1E-129	12	
	13	SCANNERS: 1E-107, 1E-106-2,...	20 A	1	12	12	12	3/4"	0.9	1.44					3/4"	12	12	12	1	20 A	REC: RMS 1E-133, 1E-135	14	
	15	FRIDGE: NOURISHMENT 1E-103	20 A	1	12	12	12	3/4"			0.75	1.44			3/4"	12	12	12	1	20 A	REC: RMS 1E-138, 1E-139A	16	
--	17	EX. REC: STERILE PROC	20 A	1	--	--	--	--					0	1.44	3/4"	12	12	12	1	20 A	REC: RMS 1E-139B, 1E-139C	18	
--	19	EX. PLUG MOLD: STERILE PROC	20 A	1	--	--	--	--	0	1.44					3/4"	12	12	12	1	20 A	REC: RMS 1E-139D, 1E-139E	20	
--	21	EX. PLUG MOLD: STERILE PROC	20 A	1	--	--	--	--			0	1.44			3/4"	12	12	12	1	20 A	REC: RMS 1E-140, 1E-141	22	
--	23	EX. PLUG MOLD: STERILE PROC	20 A	1	--	--	--	--					0	1.26	3/4"	12	12	12	1	20 A	REC: RMS 1E-136, 1E-137,...	24	
--	25	EX. PLUG MOLD: STERILE PROC	20 A	1	--	--	--	--	0	1.08					3/4"	12	12	12	1	20 A	REC: RMS 1E-132, 1E-134,...	26	
--	27	EX. PLUG MOLD: STERILE PROC	20 A	1	--	--	--	--			0	1.08			3/4"	12	12	12	1	20 A	REC: RMS 1E-128, 1E-126,...	28	
--	29	EX. PLUG MOLD: STERILE PROC	20 A	1	--	--	--	--					0	1.08	3/4"	12	12	12	1	20 A	REC: RMS 1E-129, 1E-127,...	30	
	31	COFFEE: NOURISHMENT 1E-103	20 A	1	12	12	12	3/4"	1.5	1.08					3/4"	12	12	12	1	20 A	REC: RMS 1E-133, 1E-135,...	32	
	33	COFFEE: NOURISHMENT 1E-103	20 A	1	12	12	12	3/4"			1.5	1.08			3/4"	12	12	12	1	20 A	REC: RMS 1E-140, 1E-141,...	34	
	35	SHADES: VESTIBULE 1E-100	15 A	1	12	12	12	3/4"					0.8	0	--	--	--	--	1	20 A	EX REC: MECH RM	36	--
	37	SHADES: LOBBY 1E-101	15 A	1	12	12	12	3/4"	0.8	0					--	--	--	--	1	20 A	EX REC: SUB STERILE	38	--
	39	SHADES: WAITING 1E-102	15 A	1	12	12	12	3/4"			0.8	0			--	--	--	--	1	20 A	EX REC: OR #5	40	--
--	41	EX REC: SUB STERILE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	EX REC: OR #4	42	--
	43	SHADES: WAITING 1E-102	15 A	1	12	12	12	3/4"	0.8	1.08					3/4"	12	12	12	1	20 A	REC: RMS 1E-112, 1E-113	44	
--	45	EX REC: ROOF TOP	20 A	1	--	--	--	--			0	0.9			3/4"	12	12	12	1	20 A	REC: RMS 1E-113, 1E-114	46	
	47	SHADES: WAITING 1E-102	15 A	1	12	12	12	3/4"					0.8	0.9	3/4"	12	12	12	1	20 A	REC: CONFERENCE 1E-115	48	
	49	SHADES: WAITING 1E-102	15 A	1	12	12	12	3/4"	0.8	0.5					3/4"	12	12	12	1	20 A	FB: CONFERENCE 1E-115	50	
	51	SHADES: WAITING 1E-102	15 A	1	12	12	12	3/4"			0.8	1.08			3/4"	12	12	12	1	20 A	REC: GI NURSE STATION 1E-120	52	
--	53	EX CENTURY: SUB STERILE	20 A	1	--	--	--	--					0	0	1"	10	6	6	3	50 A	WASHER/DISINFECTOR...	54	A
	55	EWC: WAITING 1E-102	20 A	1	12	12	12	3/4"	0.3	0					--	--	--	--	--	--	--	56	--
--	57	EX VACUUM PMP: STERILE...	20 A	3	--	--	--	--			0	0			--	--	--	--	--	--	--	58	--
--	59	--	--	--	--	--	--	--					0	0	1"	10	6	6	3	50 A	WASHER/DISINFECTOR...	60	
--	61	--	--	--	--	--	--	--	0	0					--	--	--	--	--	--	--	62	--
	63	REC: RMS 1E-102, 1E-110,...	20 A	1	12	12	12	3/4"			1.44	0			--	--	--	--	--	--	--	64	--
	65	REC: RMS 1E-118, 1E-116,...	20 A	1	12	12	12	3/4"					1.26	0	--	--	--	--	3	20 A	EX VACUUM PMP: STERILE...	66	--
	67	REC: RMS 1E-102, 1E-100B,...	20 A	1	12	12	12	3/4"	1.26	0					--	--	--	--	--	--	--	68	--
	69	REC: RMS 1E-161, 1E-160	20 A	1	12	12	12	3/4"			1.44	0			--	--	--	--	--	--	--	70	--
	71	REC: RMS 1E-159, 1E-158	20 A	1	12	12	12	3/4"					1.44	1.08	3/4"	12	12	12	1	20 A	REC: RMS 1E-161, 1E-160,...	72	
	73	REC: RMS 1E-157, 1E-181	20 A	1	12	12	12	3/4"	1.44	1.08					3/4"	12	12	12	1	20 A	REC: RMS 1E-158, 1E-157,...	74	
	75	REC: RMS 1E-180, 1E-179	20 A	1	12	12	12	3/4"			1.44	1.08			3/4"	12	12	12	1	20 A	REC: RMS 1E-181, 1E-180,...	76	
	77	REC: RMS 1E-178, 1E-177	20 A	1	12	12	12	3/4"					1.44	0.72	3/4"	12	12	12	1	20 A	REC: RMS 1E-178, 1E-177	78	
	79	REC: RMS 1E-143, 1E-144	20 A	1	12	12	12	3/4"	1.08	1.26					3/4"	12	12	12	1	20 A	REC: CORRIDOR 100	80	
	81	PRINTER: GI CLINICAL...	20 A	1	12	12	12	3/4"			0.3	0			--	--	--	--	1	20 A	SPARE	82	--
	83	PACK WRAP: STERILE...	20 A	1	12	12	12	3/4"					0	0	--	--	--	--	1	20 A	SPARE	84	--
								Total Load:	22.70 kVA		21.05 kVA		17.26 kVA										
								Total Amps:	194.03		180.28		143.83										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	5.6 kVA	100.00%	5.6 kVA		
Receptacles	55.41 kVA	59.02%	32.705 kVA	**TOTAL CONNECTED LOAD:**	61.01 kVA
				TOTAL ESTIMATED DEMAND LOAD:	38.305 kVA
				TOTAL CONNECTED AMPS:	169.35 A
				TOTAL ESTIMATED DEMAND AMPS:	106.3 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: A - EXISTING 3P, 40AMP CIRCUIT BREAKER TO BE REPLACED NEW. MATCH EXISTING CIRCUIT BREAKER TYPE AND MANUFACTURER AS EXISTING CIRCUIT BREAKERS IN THIS PANEL.

PANEL E1-33-LC

MOUNTING: RECESSED
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: OR (LARGE) 1E-229

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MCB
VOLTS: 120 ISO SECONDARY
PHASE: 1
WIRE: 3
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE				A		B		WIRE SIZE				OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G	C					C	G	N	H	P	AMPS			
	1	LTS: OR (LARGE) 1E-229	20 A	1	12	12	12	3/4"	1.27	0.36			3/4"	12	12	12	1	20 A	REC: OR (LARGE) 1E-229	2	
	3	REC: OR (LARGE) 1E-229	20 A	1	12	12	12	3/4"			0.36	0.36	3/4"	12	12	12	1	20 A	REC: OR (LARGE) 1E-229	4	
	5	REC: OR (LARGE) 1E-229	20 A	1	12	12	12	3/4"	0.36	0.3			3/4"	12	12	12	1	20 A	BOOM: OR (LARGE) 1E-229	6	
	7	REC: OR (LARGE) 1E-229	20 A	1	12	12	12	3/4"			0.36									8	
	9																			10	
	11																			12	
	13																			14	
	15																			16	
	17																			18	
	19																			20	
	21																			22	
	23																			24	
	25																			26	
	27																			28	
	29																			30	
	31																			32	
	33																			34	
	35																			36	
	37																			38	
	39																			40	
	41																			42	
								Total Load:	2.29 kVA		1.08 kVA										
								Total Amps:	28.06		18.00										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	1.267 kVA	100.00%	1.267 kVA		
Power	0.3 kVA	100.00%	0.3 kVA	**TOTAL CONNECTED LOAD:**	3.37 kVA
Receptacles	1.8 kVA	100.00%	1.8 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	3.367 kVA
				TOTAL CONNECTED AMPS:	28.06 A
				TOTAL ESTIMATED DEMAND AMPS:	28.1 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1-27-LC

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 1E-162

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE				A		B		C		WIRE SIZE				OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G	C							C	G	N	H	P	AMPS			
	1	REC: PRE/POST GI 1E-136	20 A	1	12	12	12	3/4"	0.9	0.9					3/4"	12	12	12	1	20 A	REC: PRE/POST GI 1E-137	2	
	3	REC: PRE/POST GI 1E-134	20 A	1	12	12	12	3/4"			0.9	0.9			3/4"	12	12	12	1	20 A	REC: PRE/POST GI 1E-138	4	
	5	REC: PRE/POST GI 1E-132	20 A	1	12	12	12	3/4"					0.9	0.9	3/4"	12	12	12	1	20 A	REC: PRE/POST GI 1E-135	6	
	7	REC: PRE/POST GI 1E-130	20 A	1	12	12	12	3/4"	0.9	0.9					3/4"	12	12	12	1	20 A	REC: PRE/POST GI 1E-133	8	
	9	REC: PRE/POST GI 1E-128	20 A	1	12	12	12	3/4"			0.9	0			--	--	--	--	1	20 A	EX CAB WARMER: SUB STERILE	10	--
	11	REC: PRE/POST GI 1E-126	20 A	1	12	12	12	3/4"					0.9	0.9	3/4"	12	12	12	1	20 A	REC: PRE/POST GI 1E-131	12	
	13	REC: PRE/POST GI 1E-124	20 A	1	12	12	12	3/4"	0.9	0.9					3/4"	12	12	12	1	20 A	REC: PRE/POST GI 1E-129	14	
	15	REC: GI NURSE STATION 1E-120	20 A	1	10	10	10	3/4"			1.08	0.9			3/4"	12	12	12	1	20 A	REC: PRE/POST GI 1E-127	16	
	17	REC: GI NURSE STATION 1E-120	20 A	1	10	10	10	3/4"					1.08	0.9	3/4"	12	12	12	1	20 A	REC: PRE/POST GI 1E-125	18	
	19	REC: PRE/POST PROCEDURE...	20 A	1	12	12	12	3/4"	0.9	0.3					3/4"	12	12	12	1	20 A	CRASH CART: ALCOVE 1E-122	20	
	21	REC: PRE/POST PROCEDURE...	20 A	1	12	12	12	3/4"			0.9	0.75			3/4"	12	12	12	1	20 A	FRIDGE: MED ROOM 1E-143	22	
	23	REC: PRE/POST PROCEDURE...	20 A	1	12	12	12	3/4"					0.9	0.5	3/4"	12	12	12	1	20 A	MED TOWER: MED ROOM...	24	
--	25	EX REC: DATA CLOSET	20 A	1	--	--	--	--	0	0.9					3/4"	12	12	12	1	20 A	REC: PRE/POST OR EXISTING...	26	
	27	REC: PRE/POST PROCEDURE...	20 A	1	12	12	12	3/4"			0.9	0.9			3/4"	12	12	12	1	20 A	REC: PRE/POST OR EXISTING...	28	
	29	REC: PRE/POST PROCEDURE...	20 A	1	12	12	12	3/4"					0.9	0.9	3/4"	12	12	12	1	20 A	REC: PRE/POST OR EXISTING...	30	
	31	REC: PRE/POST PROCEDURE...	20 A	1	12	12	12	3/4"	0.9	0.9					3/4"	12	12	12	1	20 A	REC: PRE/POST OR EXISTING...	32	
	33	REC: PRE/POST PROCEDURE...	20 A	1	12	12	12	3/4"			0.9	0.9			3/4"	12	12	12	1	20 A	REC: PRE/POST OR EXISTING...	34	
	35	REC: PRE/POST OR EXISTING...	20 A	1	12	12	12	3/4"					0.9	0.9	3/4"	12	12	12	1	20 A	REC: PRE/POST OR EXISTING...	36	
	37	REC: PRE/POST OR 1E-177	20 A	1	12	12	12	3/4"	0.9	0.9					3/4"	12	12	12	1	20 A	REC: PRE/POST OR EXISTING...	38	
	39	SUMP PUMP: ELEVATOR PIT	20 A	1	10	10	10	3/4"			1	0.9			3/4"	12	12	12	1	20 A	REC: PRE/POST OR EXISTING...	40	
	41	FRIDGE: NOURISH 1E-123	20 A	1	12	12	12	3/4"					0.75	0	--	--	--	--	1	20 A	SPARE	42	--
								Total Load:	11.10 kVA		11.83 kVA		11.33 kVA										
								Total Amps:	92.50		98.88		94.71										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Receptacles	34.26 kVA	64.59%	22.13 kVA		
				TOTAL CONNECTED LOAD:	34.26 kVA
				TOTAL ESTIMATED DEMAND LOAD:	22.13 kVA
				TOTAL CONNECTED AMPS:	95.10 A
				TOTAL ESTIMATED DEMAND AMPS:	61.4 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1-34-LC

MOUNTING: RECESSED
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: OR 1E-231

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MCB
VOLTS: 120 ISO SECONDARY
PHASE: 1
WIRE: 3
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE				A		B		WIRE SIZE				OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G	C					C	G	N	H	P	AMPS			
	1	LTS: OR 1E-231	20 A	1	12	12	12	3/4"	1.01	0.36			3/4"	12	12	12	1	20 A	REC: OR 1E-231	2	
	3	REC: OR 1E-231	20 A	1	12	12	12	3/4"			0.36	0.36	3/4"	12	12	12	1	20 A	REC: OR 1E-231	4	
	5	REC: OR 1E-231	20 A	1	12	12	12	3/4"	0.36	0.3			3/4"	12	12	12	1	20 A	BOOM: OR 1E-231	6	
	7	REC: OR 1E-231	20 A	1	12	12	12	3/4"			0.36									8	
	9																			10	
	11																			12	
	13																			14	
	15																			16	
	17																			18	
	19																			20	
	21																			22	
	23																			24	
	25																			26	
	27																			28	
	29																			30	
	31																			32	
	33																			34	
	35																			36	
	37																			38	
	39																			40	
	41																			42	
								Total Load:	2.03 kVA		1.08 kVA										
								Total Amps:	25.94		18.00										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	1.013 kVA	100.00%	1.013 kVA		
Power	0.3 kVA	100.00%	0.3 kVA	**TOTAL CONNECTED LOAD:**	3.11 kVA
Receptacles	1.8 kVA	100.00%	1.8 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	3.113 kVA
				TOTAL CONNECTED AMPS:	25.94 A
				TOTAL ESTIMATED DEMAND AMPS:	25.9 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E1-32-LC

MOUNTING: RECESSED
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: OR 1E-227

SOLID NEUTRAL
GROUND BUS

MAIN: 100 A MCB
VOLTS: 120 ISO SECONDARY
PHASE: 1
WIRE: 3
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE				A		B		WIRE SIZE				OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G	C					C	G	N	H	P	AMPS			
	1	LTS: OR 1E-227	20 A	1	12	12	12	3/4"	1.27	0.36			3/4"	12	12	12	1	20 A	REC: OR 1E-227	2	
	3	REC: OR 1E-227	20 A	1	12	12	12	3/4"			0.36	0.36	3/4"	12	12	12	1	20 A	REC: OR 1E-227	4	
	5	REC: OR 1E-227	20 A	1	12	12	12	3/4"	0.36	0.3			3/4"	12	12	12	1	20 A	BOOM: OR 1E-227	6	
	7	REC: OR 1E-227	20 A	1	12	12	12	3/4"			0.36									8	
	9																			10	
	11																			12	
	13																			14	
	15																			16	
	17																			18	
	19																			20	
	21																			22	
	23																			24	
	25																			26	
	27																			28	
	29																			30	
	31																			32	
	33																			34	
	35																			36	
	37																			38	
	39																			40	
	41																			42	
								Total Load:	2.29 kVA		1.08 kVA										
								Total Amps:	28.06		18.00										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	1.267 kVA	100.00%	1.267 kVA		
Power	0.3 kVA	100.00%	0.3 kVA	**TOTAL CONNECTED LOAD:**	3.37 kVA
Receptacles	1.8 kVA	100.00%	1.8 kVA	**TOTAL ESTIMATED DEMAND LOAD:**	3.367 kVA
				TOTAL CONNECTED AMPS:	28.06 A
				TOTAL ESTIMATED DEMAND AMPS:	28.1 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E2-1-HN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE			A		B		C		WIRE SIZE			OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G							G	N	H	P	AMPS			
--	1	EXISTING LOAD	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EXISTING LTS 2E294, 296 VIA RC-1	2	--
--	3	EXISTING LTS 2E257-261, 265, 255	20 A	1	--	--	--			0	0			--	--	--	1	20 A	EXISTING LTS 2E207A-207C, 208 VIA RC-1	4	--
--	5	EXISITNG LTS 2E208-212, 214, 216-218	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EXISTING LTS 2E297-299, 295 VIA RC-1	6	--
--	7	EXISTING LTS 2E237-241, 243-246, 249-253	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EXISITNG LTS CENTER AREA	8	--
--	9	EXISTING SIGNAGE	20 A	1	--	--	--			0	0			--	--	--	1	20 A	EXISTING LTS 2E280-281, 2E286-293	10	--
--	11	EXISTING LTS 2E65, 144, 146, 148 & 151-155	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EXISTING LTS 2E275-279, 2E282-285, 2E219, 2E224	12	--
--	13	EXISTING LTS 2E141, 137, 149, 138, 136 &135	20 A	1	--	--	--	0	**2.21**					**10**	**10**	**10**	**1**	**20 A**	**LTS WAITING, ADMIN AREA**	**14**	***E**
--	15	EXISTING LTS; EXPANSION CORRIDOR	20 A	1	--	--	--			0	**3.76**			**10**	**10**	**10**	**1**	**20 A**	**LTS 2ND FLR ROOMS 301-344**	**16**	***E**
***E**	**17**	**LTS 2ND FLR IMAGING 112-121**	**20 A**	**1**	**10**	**10**	**10**					**2.07**	**3.88**	**10**	**10**	**10**	**1**	**20 A**	**LTS 2ND FLR ROOMS 201-237**	**18**	***E**
***N**	**19**	**LTS 2ND FLR ROOMS 405-407, 414-416,...**	**20 A**	**1**	**10**	**10**	**10**	**2.4**	**1.39**					**10**	**10**	**10**	**1**	**20 A**	**LTS 2ND FLR 238-242, 420-423**	**20**	***E**
***N**	**21**	**LTS 2ND FLR 402-404, 408-413, 417-418, 424-429**	**20 A**	**1**	**10**	**10**	**10**			**1.6**	**1.73**			**10**	**10**	**10**	**1**	**20 A**	**LTS 2ND FLR NORTH CORRIDORS**	**22**	***N**
--	23	SPARE	20 A	1	--	--	--					0	**1.61**	**10**	**10**	**10**	**1**	**20 A**	**LTS 2ND FLR SOUTH CORRIDORS**	**24**	***N**
	25																			26	
	27																			28	
	29																			30	
	31																			32	
	33																			34	
	35																			36	
	37																			38	
--	39	EXISTING TRANSFORMER X-E2-9-XRAY	40 A	2	--	--	--			0	0			--	--	--	2	30 A	EXISTING TRANSFORMER X-E2-14-XRAY	40	--
--	41	--	--	--	--	--	--					0	0	--	--	--	--	--	--	42	--
							Added Load:	5.99 kVA		7.08 kVA		7.56 kVA									
							Added Amps:	21.64		26.17		27.90									

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	20.637 kVA	100.00%	20.637 kVA		
				ADDED CONNECTED LOAD:	20.64 kVA
				ADDED ESTIMATED DEMAND LOAD:	20.637 kVA
				ADDED CONNECTED AMPS:	24.82 A
				ADDED ESTIMATED DEMAND AMPS:	24.8 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

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BOLAND
ARCHITECTS

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CONSTRUCTION
DOCUMENTS

Saint Luke's™
EAST HOSPITAL
ASC EXPANSION & RENOVATION
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Lee's Summit, MO 64086

Date	01/16/2023
Job Number	3-21037
Drawn By	ZMB
Checked By	PLR

Revision

Number	Date	Description

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PROJECT #21006783.00

E702

PANEL SCHEDULES

PANEL E2-3-HLS

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 60 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	WIRE SIZE N	WIRE SIZE G	A	A	B	B	C	C	WIRE SIZE G	WIRE SIZE N	WIRE SIZE H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
--	1	EXISTING LOAD	20 A	1	--	--	--	0	0					--	--	--	1	20 A	EXISTING LOAD	2	--
--	3	EXISTING LOAD	20 A	1	--	--	--			0	0			--	--	--	1	20 A	EXISTING LOAD	4	--
--	5	EXISTING 2ND FLR TEMPORARY LIGHTS	20 A	1	--	--	--					0	0	--	--	--	1	20 A	EXISTING NURSE'S STATIONS & 2E143	6	--
***E**	**7**	**2ND FLR EGRESS LIGHTS, EXIT SIGNS**	**20 A**	**1**	**10**	**10**	**10**	**1.98**	0					--	--	--	1	20 A	EXPANSION CORRIDOR LIGHTS	8	--
***E**	**9**	**3RD FLR EGRESS LIGHTS, EXIT SIGNS**	**20 A**	**1**	**10**	**10**	**10**			**1.66**	0			--	--	--	1	20 A	SPARE	10	--
--	11	SPARE	20 A	1	--	--	--					0	0	--	--	--	1	20 A	SPARE	12	--
--	13	SPACE	--	1	--	--	--	--	0					--	--	--	1	20 A	SPARE	14	--
--	15	SPACE	--	1	--	--	--			--	--			--	--	--	1	--	SPACE	16	--
--	17	SPACE	--	1	--	--	--					--	--	--	--	--	1	--	SPACE	18	--
--	19	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	20	--
--	21	SPACE	--	1	--	--	--			--	--			--	--	--	1	--	SPACE	22	--
--	23	SPACE	--	1	--	--	--					--	--	--	--	--	1	--	SPACE	24	--
--	25	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	26	--
--	27	SPACE	--	1	--	--	--			--	--			--	--	--	1	--	SPACE	28	--
--	29	SPACE	--	1	--	--	--					--	--	--	--	--	1	--	SPACE	30	--
--	31	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	32	--
--	33	SPACE	--	1	--	--	--			--	--			--	--	--	1	--	SPACE	34	--
--	35	SPACE	--	1	--	--	--					--	--	--	--	--	1	--	SPACE	36	--
--	37	SPACE	--	1	--	--	--	--	--					--	--	--	1	--	SPACE	38	--
--	39	SPACE	--	1	--	--	--			--	--			--	--	--	1	--	SPACE	40	--
--	41	SPACE	--	1	--	--	--					--	--	--	--	--	1	--	SPACE	42	--

	A	B	C
Total Load:	1.98 kVA	1.66 kVA	0.00 kVA
Total Amps:	8.06	6.90	0.00

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	3.633 kVA	100.00%	3.633 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	3.63 kVA
TOTAL ESTIMATED DEMAND LOAD:	3.633 kVA
TOTAL CONNECTED AMPS:	4.37 A
TOTAL ESTIMATED DEMAND AMPS:	4.4 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E2-4-LC

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION:

SOLID NEUTRAL
GROUND BUS

MAIN: 60 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 65 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	WIRE SIZE N	WIRE SIZE G	WIRE SIZE C	A	A	B	B	C	C	WIRE SIZE C	WIRE SIZE G	WIRE SIZE N	WIRE SIZE H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	LTS 2ND FLR ELECTRICAL...	20 A	1	12	12	12	3/4"	0.08													2	
	3																					4	
	5																					6	
	7																					8	
	9																					10	
	11																					12	
	13																					14	
	15																					16	
	17																					18	
	19																					20	
	21																					22	
	23																					24	
	25																					26	
	27																					28	
	29																					30	
	31																					32	
	33																					34	
	35																					36	
	37																					38	
	39																					40	
	41																					42	

	A	B	C
Total Load:	0.08 kVA	0.00 kVA	0.00 kVA
Total Amps:	0.67	0.00	0.00

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Lighting	0.08 kVA	100.00%	0.08 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	0.08 kVA
TOTAL ESTIMATED DEMAND LOAD:	0.08 kVA
TOTAL CONNECTED AMPS:	0.22 A
TOTAL ESTIMATED DEMAND AMPS:	0.2 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E2-7-LN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 2E-419

SOLID NEUTRAL
GROUND BUS

MAIN: 225 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	WIRE SIZE N	WIRE SIZE G	WIRE SIZE C	A	A	B	B	C	C	WIRE SIZE C	WIRE SIZE G	WIRE SIZE N	WIRE SIZE H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	REC: RMS 2E-439, 2E-417	20 A	1	12	12	12	3/4"	1.44	1.08					3/4"	12	12	12	1	20 A	REC: MID LEVEL 2E-424	2	
	3	REC: RMS 2E-439, 2E-440	20 A	1	12	12	12	3/4"			1.44	1.08			3/4"	12	12	12	1	20 A	REC: MID LEVEL 2E-424	4	
	5	REC: SHOULDER/HIP/ KNEE T...	20 A	1	12	12	12	3/4"					1.26	1.26	3/4"	12	12	12	1	20 A	REC: MID LEVEL 2E-424	6	
	7	REC: SHOULDER/HIP/ KNEE T...	20 A	1	12	12	12	3/4"	1.08	1.08					3/4"	12	12	12	1	20 A	REC: RMS 2E-422, 2E-424	8	
	9	REC: SHOULDER/HIP/ KNEE T...	20 A	1	12	12	12	3/4"			1.08	0.75			3/4"	12	12	12	1	20 A	PRINTER: MID LEVEL 2E-424	10	
	11	REC: PAIN TC 2E-415	20 A	1	12	12	12	3/4"					1.26	1.08	3/4"	12	12	12	1	20 A	REC: WORK COMP 2E-422	12	
	13	REC: PAIN TC 2E-415	20 A	1	12	12	12	3/4"	1.26	1.08					3/4"	12	12	12	1	20 A	REC: WORK COMP 2E-422	14	
	15	REC: PAIN TC 2E-415	20 A	1	12	12	12	3/4"			1.08	1			3/4"	12	12	12	1	20 A	MFD: WORK COMP 2E-422	16	
	17	FRIDGE: PROVIDER OFFICE...	20 A	1	12	12	12	3/4"					0.75	1.02	3/4"	12	12	12	1	20 A	REC & SHREDDER: RMS 2E-42...	18	
	19	FRIDGE: PROVIDER OFFICE...	20 A	1	12	12	12	3/4"	0.75	1.08					3/4"	12	12	12	1	20 A	REC: PHONE ROOM 2E-421	20	
	21	MFD: SHOULDER/HIP/ KNEE T...	20 A	1	12	12	12	3/4"			1	1.08			3/4"	12	12	12	1	20 A	REC: PHONE ROOM 2E-421	22	
	23	MFD: PAIN TC 2E-415	20 A	1	12	12	12	3/4"					1	1.08	3/4"	12	12	12	1	20 A	REC: PHONE ROOM 2E-421	24	
	25	REC: RMS 2E-435, 2E-436	0 A	1					1.62	1.08					3/4"	12	12	12	1	20 A	REC: PHONE ROOM 2E-421	26	
	27	REC: RMS 2E-437, 2E-436	0 A	1							1.62	1			3/4"	12	12	12	1	20 A	MFD: PHONE ROOM 2E-421	28	
	29	REC: RMS 2E-444, 2E-443	0 A	1									1.62	1.08	3/4"	12	12	12	1	20 A	REC: IT OFFICE 2E-423	30	
	31	REC: RMS 2E-442, 2E-443	0 A	1					1.62	0.75					3/4"	12	12	12	1	20 A	COMPUCADDY: IT OFFICE...	32	
	33	REC: RMS 2E-445, 2E-446	0 A	1							1.62	0.75			3/4"	12	12	12	1	20 A	COMPUCADDY: IT OFFICE...	34	
	35	REC: RMS 2E-447, 2E-446	0 A	1									1.62	0.54	3/4"	12	12	12	1	20 A	REC: IT OFFICE 2E-423	36	
	37	REC: RMS 2E-419, 2E-418	0 A	1					1.62	1.26					3/4"	12	12	12	1	20 A	REC: RMS 2E-430, 2E-429	38	
	39	REC: RMS 2E-418, 2E-413	0 A	1							1.62	1.26			3/4"	12	12	12	1	20 A	REC: RMS 2E-428, 2E-427,...	40	
	41	REC: RMS 2E-412, 2E-410	0 A	1									1.62	0.5	3/4"	12	12	12	1	20 A	AUTOCLAVE: SOILED HOLD...	42	
	43	REC: RMS 2E-409, 2E-410	0 A	1					1.62	1.08					3/4"	10	10	10	1	15 A	REC: 2E-434	44	
	45	REC: RMS 2E-408, 2E-404	0 A	1							1.62	1.44			3/4"	10	10	10	1	15 A	REC: 2E-433 & TLT 430 & 431	46	
	47	REC: RMS 2E-403, 2E-404	0 A	1									1.62	1.08	3/4"	12	12	12	1	20 A	REC: RMS 2E-407, 2E-449	48	
	49	REC: RMS 2E-455, 2E-347	0 A	1					1.62	1.08					3/4"	12	12	12	1	20 A	REC: RMS 2E-406, 2E-450	50	
	51	REC: RMS 2E-342, 2E-347	0 A	1							1.62	1.08			3/4"	12	12	12	1	20 A	REC: RMS 2E-405, 2E-451	52	
	53	REC: RMS 2E-345, 2E-346	0 A	1									1.62	0.75	3/4"	12	12	12	1	20 A	FRIDGE: PROVIDER OFFICE...	54	
	55	REC: RMS 2E-343, 2E-346	0 A	1					1.62	0.75					3/4"	12	12	12	1	20 A	FRIDGE: PROVIDER OFFICE...	56	
	57	REC: RMS 2E-420, 2E-245,...	20 A	1	12	12	12	3/4"			1.26	0.75			3/4"	12	12	12	1	20 A	FRIDGE: PROVIDER OFFICE...	58	
	59	REC: RMS 2E-246, 2E-402	20 A	1	12	12	12	3/4"					1.08	0.75	3/4"	12	12	12	1	20 A	FRIDGE: PROVIDER OFFICE...	60	
	61	REC: RMS 2E-241, 2E-244,...	20 A	1	12	12	12	3/4"	1.44	0.75					3/4"	12	12	12	1	20 A	FRIDGE: PROVIDER OFFICE...	62	
	63	MFD: ADMIN WORK AREA 2E-243	20 A	1	12	12	12	3/4"			1	0.75			3/4"	12	12	12	1	20 A	FRIDGE: URGENT CARE...	64	
	65	REC: MID LEVEL 2E-239	20 A	1	12	12	12	3/4"					1.08	1.44	3/4"	8	8	8	1	20 A	REC: CORRIDOR 2E-400	66	
	67	REC: RMS 2E-240, 2E-239	20 A	1	10	10	10	3/4"	1.44	1.44					3/4"	10	10	10	1	20 A	REC: CORRIDOR 2E-400	68	
	69	REC: CONFERENCE 2E-238	20 A	1	10	10	10	3/4"			1.08	1.5			3/4"	8	8	8	1	20 A	FRIDGE: STAFF LOUNGE 2E-235	70	
	71	FB: CONFERENCE 2E-238	20 A	1	12	12	12	3/4"					0.5	1.5	3/4"	8	8	8	1	20 A	FRIDGE: STAFF LOUNGE 2E-235	72	
	73	REC: RMS 2E-238, 2E-236	20 A	1	10	10	10	3/4"	1.26	1.5					3/4"	8	8	8	1	20 A	FRIDGE: STAFF LOUNGE 2E-235	74	
	75	FRIDGE: CONFERENCE 2E-238	20 A	1	12	12	12	3/4"			0.75	1			3/4"	10	10	10	1	20 A	MICROWAVE: STAFF LOUNGE...	76	
	77	MICROWAVE: CONFERENCE...	20 A	1	12	12	12	3/4"					1	1	3/4"	10	10	10	1	20 A	MICROWAVE: STAFF LOUNGE...	78	
	79	COFFEE: STAFF LOUNGE 2E-235	20 A	1	8	8	8	3/4"	1.5	1					3/4"	10	10	10	1	20 A	DISH WASHER: STAFF LOUNG...	80	A
	81	COFFEE & WATER DISP. SL...	20 A	1	8	8	8	3/4"			1.5	1.26			3/4"	8	8	8	1	20 A	REC: STAFF LOUNGE 2E-235	82	
	83	VENDING: STAFF LOUNGE...	20 A	1	10	10	10	3/4"					1.5	1.1	3/4"	10	10	10	1	20 A	REC: RMS 2E-235, 2E-233,...	84	
	85	VENDING: STAFF LOUNGE...	20 A	1	8	8	8	3/4"	1.5	1.08					3/4"	10	10	10	1	20 A	REC: CORRIDOR 200	86	
	87	REC: TECH WORK 2E-116	20 A	1	10	10	10	3/4"			1.08	1.08			3/4"	12	12	12	1	20 A	REC: DME WORK 2E-124	88	
	89	REC: TECH WORK 2E-116	20 A	1	12	12	12	3/4"					1.08	1.08	3/4"	12	12	12	1	20 A	REC: DME WORK 2E-124	90	
	91	REC: TECH WORK 2E-116	20 A	1	12	12	12	3/4"	0.9	1.08					3/4"	12	12	12	1	20 A	REC: RMS 2E-124, 2E-123,...	92	
	93	MFD: TECH WORK 2E-116	20 A	1	10	10	10	3/4"			1	0.3			3/4"	12	12	12	1	20 A	PRINTER: DME WORK 2E-124	94	
	95	REC: FINANCIAL MANAGER...	20 A	1	10	10	10	3/4"					1.44	0.9	3/4"	10	10	10	1	20 A	REC: X-RAY GE 2E-119	96	
	97	REC: X-RAY SAMSUNG 2E-121	20 A	1	12	12	12	3/4"	0.9	0.72					3/4"	12	12	12	1	20 A	REC: X-RAY GE 2E-119	98	
	99	REC: X-RAY SAMSUNG 2E-121	20 A	1	12	12	12	3/4"			0.72	0.9			3/4"	10	10	10	1	20 A	REC: X-RAY GE 2E-118	100	
	101	REC: X-RAY SM 2E-115	20 A	1	10	10	10	3/4"					0.9	0.72	3/4"	12	12	12	1	20 A	REC: X-RAY GE 2E-118	102	
	103	REC: X-RAY SM 2E-115	20 A	1	12	12	12	3/4"	0.72	0.9					3/4"	10	10	10	1	20 A	REC: X-RAY SAMSUNG 2E-117	104	
	105	REC: CORRIDOR 2E-122	20 A	1	12	12	12	3/4"			0.54	0.72			3/4"	12	12	12	1	20 A	REC: X-RAY SAMSUNG 2E-117	106	
	107	COFFEE: STAFF LOUNGE 2E-235	20 A	1	8	8	8	3/4"					1.5	0.3	3/4"	12	12	12	1	20 A	WATER DISP: STAFF LOUNGE...	108	
	109	IT RACK: IT CLOSET 2E-111	30 A	2	10	--	10	3/4"	1	0.36					3/4"	12	12	12	1	20 A	REC: IT CLOSET 2E-111	110	
--	111	--	--	--	--	--	--	--			1	0.5			3/4"	12	12	12	1	20 A	FB: CONFERENCE 2E-238	112	
	113	EXPEDITOR SYSTEM: ELEC...	20 A	1	12	12	12	3/4"					0.5	0.5	3/4"	12	12	12	1	20 A	VAV BOX XFMR: ELEC 2E-419	114	
--	115	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	116	--
--	117	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	118	--
--	119	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	120	--
--	121	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	122	--
--	123	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	124	--
--	125	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	126	--
--	127	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	128	--
--	129	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	130	--
--	131	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	132	--
--	133	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	134	--
--	135	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	136	--
--	137	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	138	--
--	139	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	140	--
--	141	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	142	--
--	143	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	144	--
--	145	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	146	--
--	147	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	148	--
--	149	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	150	--
--	151	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	152	--
--	153	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	154	--
--	155	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	156	--
--	157	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	158	--
--	159	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	160	--
--	161	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	162	--
--	163	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	164	--
--	165	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	166	--
--	167	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	168	--

	A	B	C
Total Load:	44.06 kVA	40.83 kVA	40.63 kVA
Total Amps:	367.42	340.51	338.58

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	2.5 kVA	100.00%	2.5 kVA
Receptacles	123.02 kVA	54.06%	66.51 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	125.52 kVA
TOTAL ESTIMATED DEMAND LOAD:	69.01 kVA
TOTAL CONNECTED AMPS:	348.41 A
TOTAL ESTIMATED DEMAND AMPS:	191.6 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES: A - PROVIDE GFCI CIRCUIT BREAKER.

PANEL E2-12-LN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC. 2E-323

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD AMPS	P	WIRE SIZE H	WIRE SIZE N	WIRE SIZE G	WIRE SIZE C	A	A	B	B	C	C	WIRE SIZE C	WIRE SIZE G	WIRE SIZE N	WIRE SIZE H	P	OCPD AMPS	LOAD DESCRIPTION	CKT NO.	KEY
	1	REC: HAND TC 2E-206	20 A	1	8	8	8	3/4"	1.26	1.08					3/4"	12	12	12	1	20 A	REC: FOOT/ANKLE TC 2E-306	2	
	3	REC: HAND TC 2E-206	20 A	1	10	10	10	3/4"			1.08	1.08			3/4"	12	12	12	1	20 A	REC: FOOT/ANKLE TC 2E-306	4	
	5	MFD: HAND TC 2E-206	20 A	1	10	10	10	3/4"					1	1.08	3/4"	12	12	12	1	20 A	REC: FOOT/ANKLE TC 2E-306	6	
	7	REC: RMS 2E-207, 2E-208	20 A	1	8	8	8	3/4"	1.44	1.26					3/4"	12	12	12	1	20 A	REC: FOOT/ANKLE TC 2E-306	8	
	9	REC: RMS 2E-209, 2E-219	20 A	1	8	8	8	3/4"			1.44	0.18			3/4"	12	12	12	1	20 A	REC: FOOT/ANKLE TC 2E-306	10	
	11	FRIDGE: PROVIDER OFFICE...	20 A	1	10	10	10	3/4"					0.75	1.44	3/4"	12	12	12	1	20 A	REC: RMS 2E-316, 2E-317	12	
	13	FRIDGE: PROVIDER OFFICE...	20 A	1	10	10	10	3/4"	0.75	1.44					3/4"	12	12	12	1	20 A	REC: RMS 2E-318, 2E-319	14	
	15	FRIDGE: PROVIDER OFFICE...	20 A	1	10	10	10	3/4"			0.75	1.44			3/4"	12	12	12	1	20 A	REC: RMS 2E-329, 2E-330	16	
	17	FRIDGE: PROVIDER OFFICE...	20 A	1	12	12	12	3/4"					0.75	0.75	3/4"	12	12	12	1	20 A	FRIDGE: PROVIDER OFFICE...	18	
	19	REC: GENERAL ORTHO/SPINE...	20 A	1	10	10	10	3/4"	1.08	0.75					3/4"	12	12	12	1	20 A	FRIDGE: PROVIDER OFFICE...	20	
	21	REC: GENERAL ORTHO/SPINE...	20 A	1	10	10	10	3/4"			1.26	0.75			3/4"	12	12	12	1	20 A	FRIDGE: PROVIDER OFFICE...	22	
	23	REC: GENERAL ORTHO/SPINE...	20 A	1	10	10	10	3/4"					1.08	0.75	3/4"	12	12	12	1	20 A	FRIDGE: PROVIDER OFFICE...	24	
	25	REC: GENERAL ORTHO/SPINE...	20 A	1	10	10	10	3/4"	1	0.75					3/4"	12	12	12	1	20 A	FRIDGE: PROVIDER OFFICE...	26	
	27	REC: RMS 2E-231, 2E-230	20 A	1	10	10	10	3/4"			1.44	0.75			3/4"	12	12	12	1	20 A	FRIDGE: PROVIDER OFFICE...	28	
	29	REC & PRINTER: MID LEVEL...	20 A	1	12	12	12	3/4"					0.72	1.62					1	0 A	REC: RMS 2E-304, 2E-305	30	
	31	REC: MID LEVEL OFFICE 2E-232	20 A	1	10	10	10	3/4"	1.26	1.62									1	0 A	REC: RMS 2E-303, 2E-304	32	
	33	FRIDGE: PROVIDER OFFICE...	20 A	1	12	12	12	3/4"			0.75	1.62							1	0 A	REC: RMS 2E-308, 2E-309	34	
	35	FRIDGE: PROVIDER OFFICE...	20 A	1	12	12	12	3/4"					0.75	1.62					1	0 A	REC: RMS 2E-310, 2E-309	36	
	37	REC: RMS 2E-328, 2E-327	0 A	1					1.62	1.62									1	0 A	REC: RMS 2E-315, 2E-314	38	
	39	REC: RMS 2E-326, 2E-327	0 A	1							1.62	1.62							1	0 A	REC: RMS 2E-313, 2E-314	40	
	41	REC: RMS 2E-333, 2E-334	0 A	1									1.62	1.62					1	0 A	REC: RMS 2E-321, 2E-322	42	
	43	REC: RMS 2E-339, 2E-333	0 A	1					1.62	1.62									1	0 A	REC: RMS 2E-322, 2E-323	44	
	45	REC: RMS 2E-338, 2E-337	0 A	1							1.62	1.62							1	0 A	REC: RMS 2E-201, 2E-202	46	
	47	REC: RMS 2E-344, 2E-337	0 A	1									1.62	1.62					1	0 A	REC: RMS 2E-203, 2E-202	48	
	49	REC: RMS 2E-102, 2E-103,...	20 A	1	10	10	10	3/4"	1.26	1.62									1	0 A	REC: RMS 2E-204, 2E-205	50	
	51	ICE MAKER: NOURISH 2E-105	20 A	1	12	12	12	3/4"			0.8	1.62							1	0 A	REC: RMS 2E-211, 2E-205	52	
	53	COFFEE: NOURISH 2E-105	20 A	1	12	12	12	3/4"					1	1.62					1	0 A	REC: RMS 2E-212, 2E-213	54	
	55	EWC: WAITING 2E-101	20 A	1	12	12	12	3/4"	0.3	1.62									1	0 A	REC: RMS 2E-218, 2E-212	56	
	57	REC: CHECK OUT 2E-106	20 A	1	12	12	12	3/4"			1.08	1.62							1	0 A	REC: RMS 2E-223, 2E-222	58	
	59	REC: CHECK OUT 2E-106	20 A	1	12	12	12	3/4"					1.08	1.62					1	0 A	REC: RMS 2E-221, 2E-222	60	
	61	REC: CHECK IN 2E-107 & CHE...	20 A	1	12	12	12	3/4"	1.08	1.62									1	0 A	REC: RMS 2E-226, 2E-227	62	
	63	REC: CHECK IN 2E-107	20 A	1	12	12	12	3/4"			1.08	1.62							1	0 A	REC: RMS 2E-228, 2E-227	64	
	65	REC: CHECK IN 2E-107	20 A	1	12	12	12	3/4"					1.08	0.18	3/4"	12	12	12	1	20 A	MFD: 2E-111	66	
	67	REC: CHECK OUT 2E-111	20 A	1	12	12	12	3/4"	1.08	0.18					3/4"	12	12	12	1	20 A	MFD: CHECK OUT 2E-106	68	
	69	REC: CHECK OUT 2E-111	20 A	1	12	12	12	3/4"			1.08	0.3			3/4"	12	12	12	1	20 A	REC: CHECK OUT 2E-106	70	
	71	REC: RMS 2E-111, 2E-109	20 A	1	12	12	12	3/4"					1.08	0.72	3/4"	12	12	12	1	20 A	REC: RMS 2E-106, 2E-110,...	72	
	73	REC: FILES 2E-108	20 A	1	12	12	12	3/4"	1.08	1.08					3/4"	12	12	12	1	20 A	REC: JOINT TC 2E-331	74	
	75	REC: JOINT TC 2E-331	20 A	1	12	12	12	3/4"			1.08	1.08			3/4"	12	12	12	1	20 A	REC: JOINT TC 2E-331	76	
	77	REC: JOINT TC 2E-331	20 A	1	12	12	12	3/4"					1.08	1	3/4"	12	12	12	1	20 A	MFD: JOINT TC 2E-331	78	
	79	REC: RMS 2E-340, 2E-341	20 A	1	10	10	10	3/4"	1.44	1.44					3/4"	10	10	10	1	20 A	REC: CORRIDOR 300	80	
	81	FRIDGE: PO 2E-340	20 A	1	12	12	12	3/4"			0.75	1.44			3/4"	10	10	10	1	20 A	REC: LOBBY & CORRIDOR 200	82	
	83	FRIDGE: PO 2E-341	20 A	1	12	12	12	3/4"					0.75	1.26	3/4"	8	8	8	1	20 A	REC: CORRIDOR 200	84	
	85	REC: CORRIDOR 300	20 A	1	10	10	10	3/4"	1.44	0.8					3/4"	10	10	10	1	15 A	POWER SHADES: LOBBY	86	
	87	POWER SHADES: LOBBY	15 A	1	10	10	10	3/4"			0.8	0							1	0 A	AHU-E-12	88	
--	89	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	90	--
--	91	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	92	--
--	93	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	94	--
--	95	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	96	--
--	97	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	98	--
--	99	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	100	--
--	101	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	102	--
--	103	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	104	--
--	105	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	106	--
--	107	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	108	--
--	109	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	110	--
--	111	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	112	--
--	113	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	114	--
--	115	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	116	--
--	117	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	118	--
--	119	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	120	--
--	121	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	122	--
--	123	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	124	--
--	125	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	126	--
--	127	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	128	--
--	129	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	130	--
--	131	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	132	--
--	133	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	134	--
--	135	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	136	--
--	137	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	138	--
--	139	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	140	--
--	141	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	142	--
--	143	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	144	--
--	145	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	146	--
--	147	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	148	--
--	149	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	150	--
--	151	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	152	--
--	153	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	154	--
--	155	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	156	--
--	157	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	158	--
--	159	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	160	--
--	161	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	162	--
--	163	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	164	--
--	165	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	166	--
--	167	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	168	--

	A	B	C
Total Load:	36.21 kVA	33.37 kVA	31.26 kVA
Total Amps:	304.46	280.79	260.50

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND
Power	1.6 kVA	100.00%	1.6 kVA
Receptacles	99.24 kVA	55.04%	54.62 kVA

TOTALS*	
TOTAL CONNECTED LOAD:	100.84 kVA
TOTAL ESTIMATED DEMAND LOAD:	56.22 kVA
TOTAL CONNECTED AMPS:	279.90 A
TOTAL ESTIMATED DEMAND AMPS:	156.1 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

IMEG
1600 BALTIMORE
SUITE 300
KANSAS CITY, MO 64108
P: 816.842.8437
www.imegcorp.com

Missouri Certificate of Authority #F001325536

0 1 2 3
REF. SCALE IN INCHES
PROJECT #21006783.00

BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

ACI
BOLAND
ARCHITECTS

ACI/Boland, Inc.
Kansas City | St. Louis

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

Licensee's Certificate of Authority Number:
Missouri: #000958

CONSTRUCTION DOCUMENTS

Saint Luke's
EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	01/16/2023
Job Number	3-21037
Drawn By	ZMB
Checked By	PLR

Revision

Number	Date	Description

E703

PANEL SCHEDULES

1/16/2023 7:34:15 PM

BIM 360://3-21037 SLE - ASC Expansion - Revit 2021/MEP21_21006783.00_SLH-East ASC Addition_C.rvt

PANEL E2-13-LC

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC. 2E-323

SOLID NEUTRAL
GROUND BUS

MAIN: 60 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE				A		B		C		WIRE SIZE				OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G	C							C	G	N	H	P	AMPS			
	1	REC: CAST 2E-453	20 A	1	12	12	12	3/4"	1.08	0.9					3/4"	12	12	12	1	20 A	REC: CAST 2E-301	2	
	3	REC: EXAM #2 2E-454	20 A	1	10	10	10	3/4"			1.08	0.9			3/4"	12	12	12	1	20 A	REC: CAST 2E-302	4	
	5	CRASH CART: STORAGE 2E-426	20 A	1	12	12	12	3/4"					0.3	0.9	3/4"	12	12	12	1	20 A	REC: CAST 2E-216	6	
	7	REC: IT CLOSET 2E-111	20 A	1	12	12	12	3/4"	0.54	0.9					3/4"	10	10	10	1	20 A	REC: EXAM #8 2E-217	8	
	9	RACK: IT CLOSET 2E-111	20 A	1	12	12	12	3/4"			1	0.5			3/4"	12	--	12	3	20 A	UPS: IT CLOSET 2E-111	10	
	11	IN-ROW COOELR: IT CLOSET...	20 A	1	12	12	12	3/4"					1	0.5	--	--	--	--	--	--	--	12	--
	13	IN-ROW COOLER: IT CLOSET...	20 A	1	12	12	12	3/4"	1	0.5					--	--	--	--	--	--	--	14	--
--	15	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	16	--
--	17	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	18	--
--	19	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	20	--
--	21	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	22	--
--	23	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	24	--
--	25	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	26	--
--	27	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	28	--
--	29	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	30	--
--	31	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	32	--
--	33	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	34	--
--	35	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	36	--
--	37	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	38	--
--	39	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	40	--
--	41	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	42	--
			Total Load:						4.92 kVA		3.48 kVA		2.70 kVA										
			Total Amps:						42.00		30.00		22.50										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	4.5 kVA	100.00%	4.5 kVA		
Receptacles	6.6 kVA	100.00%	6.6 kVA	TOTAL CONNECTED LOAD:	11.10 kVA
				TOTAL ESTIMATED DEMAND LOAD:	11.1 kVA
				TOTAL CONNECTED AMPS:	30.81 A
				TOTAL ESTIMATED DEMAND AMPS:	30.8 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E3-1-LLS

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 60 A/3P @
LOCATION: ELEC. 3E-207A

SOLID NEUTRAL
GROUND BUS

MAIN: 60 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE				A		B		C		WIRE SIZE				OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G	C							C	G	N	H	P	AMPS			
	1	DOOR ACCESS PNL IT 3E-205B	20 A	1	12	12	12	3/4"	0.5	0.5					3/4"	12	12	12	1	20 A	DOOR ACCESS PNL: IT 2E-111	2	
--	3	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	4	--
--	5	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	6	--
--	7	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	8	--
--	9	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	10	--
--	11	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	12	--
--	13	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	14	--
--	15	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	16	--
--	17	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	18	--
--	19	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	20	--
--	21	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	22	--
--	23	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	24	--
--	25	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	26	--
--	27	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	28	--
--	29	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	30	--
--	31	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	32	--
--	33	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	34	--
--	35	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	36	--
--	37	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	38	--
--	39	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	40	--
--	41	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	42	--
			Total Load:						1.00 kVA		0.00 kVA		0.00 kVA										
			Total Amps:						8.33		0.00		0.00										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	1 kVA	100.00%	1 kVA		
				TOTAL CONNECTED LOAD:	1.00 kVA
				TOTAL ESTIMATED DEMAND LOAD:	1 kVA
				TOTAL CONNECTED AMPS:	2.78 A
				TOTAL ESTIMATED DEMAND AMPS:	2.8 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E3-2-LC

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC 3E-319

SOLID NEUTRAL
GROUND BUS

MAIN: 60 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE				A		B		C		WIRE SIZE				OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G	C							C	G	N	H	P	AMPS			
	1	LTS 3RD FLR ELEC CLST, RMS...	20 A	1	10	10	10	3/4"	1.04	1.76					3/4"	10	10	10	1	20 A	LTS 3RD FLR ELEC CLST,...	2	
	3	REC: IT 3E-205B	20 A	1	12	12	12	3/4"			0.54	0			3/4"	12	12	12	1	20 A	UV LIGHTS: AHU-E-9	4	
	5	RACK: IT 3E-205B	20 A	1	12	12	12	3/4"					1	1.25	3/4"	10	--	10	2	30 A	CU: ROOF	6	
	7	IN-ROW COOLER: IT 3E-205B	20 A	1	12	12	12	3/4"	1	1.25					--	--	--	--	--	--	--	8	--
	9	IN-ROW COOLER: IT 3E-205B	20 A	1	12	12	12	3/4"			1	1.25			3/4"	10	--	10	2	30 A	CU: ROOF	10	
	11	UPS: IT 3E-205B	20 A	3	12	--	12	3/4"					0.5	1.25	--	--	--	--	--	--	--	12	--
--	13	--	--	--	--	--	--	--	0.5	0					3/4"	12	12	12	1	20 A	HEAT TRACE: ROOF	14	
--	15	--	--	--	--	--	--	--			0.5	0			--	--	--	--	1	20 A	SPARE	16	--
	17	CU: ROOF	30 A	2	10	--	10	3/4"					1.25	0	--	--	--	--	1	20 A	SPARE	18	--
--	19	--	--	--	--	--	--	--	1.25	0					--	--	--	--	1	20 A	SPARE	20	--
	21	CU: ROOF	30 A	2	10	--	10	3/4"			1.25	0			--	--	--	--	1	20 A	SPARE	22	--
--	23	--	--	--	--	--	--	--					1.25	0	--	--	--	--	1	20 A	SPARE	24	--
--	25	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	26	--
--	27	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	28	--
--	29	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	30	--
--	31	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	32	--
--	33	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	34	--
--	35	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	36	--
--	37	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	38	--
--	39	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	40	--
--	41	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	42	--
			Total Load:						6.80 kVA		4.54 kVA		6.50 kVA										
			Total Amps:						59.22		37.83		56.68										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	2.804 kVA	100.00%	2.804 kVA		
Power	14.5 kVA	100.00%	14.5 kVA	TOTAL CONNECTED LOAD:	17.84 kVA
Receptacles	0.54 kVA	100.00%	0.54 kVA	TOTAL ESTIMATED DEMAND LOAD:	17.844 kVA
				TOTAL CONNECTED AMPS:	49.53 A
				TOTAL ESTIMATED DEMAND AMPS:	49.5 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E3-1-LN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 250 A/3P @ XE3-1-LN
LOCATION: ELEC 3E-319

SOLID NEUTRAL
GROUND BUS

MAIN: 250 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE				A		B		C		WIRE SIZE				OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G	C							C	G	N	H	P	AMPS			
	1	REC: CNM (MGR. & LEAD) 3E-308	20 A	1	12	12	12	3/4"	1.08	1.5									1	20 A	MICRO: STAFF LOUNGE 3E-250	2	
	3	REC: APP (4) 3E-309	20 A	1	12	12	12	3/4"			1.08	1.68							1	20 A	REC: STAFF LOUNGE 3E-250	4	
	5	REC: APP (4) 3E-309	20 A	1	12	12	12	3/4"					1.08	0.18					1	20 A	MICRO: STAFF LOUNGE 3E-250	6	
	7	REC: PROVIDER 5/6 3E-310	20 A	1	12	12	12	3/4"	1.08	1									1	20 A	CULL: STAFF LOUNGE 3E-250	8	
	9	REC: 3E-300F, 3E-300G, 3E-307...	20 A	1	10	10	10	3/4"			1.44	1.5							1	20 A	REF: STAFF LOUNGE 3E-250	10	
	11	MFD: NURSE / TEAM CENTER...	20 A	1	10	10	10	3/4"					1.5	1.5					1	20 A	REF: STAFF LOUNGE 3E-250	12	
	13	REC: NURSE / TEAM CENTER...	20 A	1	12	12	12	3/4"	1.08	1.26									1	20 A	REC: ENT EXAM 6 3E-251	14	
	15	REC: NURSE / TEAM CENTER...	20 A	1	12	12	12	3/4"			1.08	1.26							1	20 A	REC: ENT EXAM 5 3E-250	16	
	17	REC: NURSE / TEAM CENTER...	20 A	1	12	12	12	3/4"					1.08	1.26					1	20 A	REC: ENT EXAM 4 3E-249	18	
	19	REC: PROVIDER 7/8 3E-312	20 A	1	12	12	12	3/4"	1.08	1.62									1	20 A	REC: 3E-258, 3E-259	20	
	21	REC: TRIAGE 3E-313	20 A	1	12	12	12	3/4"			1.08	1.26							1	20 A	REC:ENT EXAM 1 3E-246	22	
	23	REC: TRIAGE 3E-313	20 A	1	12	12	12	3/4"					1.08	1.26					1	20 A	REC: PULM EXAM 8 3E-245	24	
	25	MFD: TRIAGE 3E-313	20 A	1	10	10	10	3/4"	1.5	1.26									1	20 A	REC:PULM EXAM 3 3E-240	26	
	27	REC: TRIAGE 3E-313	20 A	1	12	12	12	3/4"			0.54	1.08							1	20 A	REC: 3E-238, 3E-239	28	
	29	REC: 3E-352, 3E-353	20 A	1	12	12	12	3/4"					1.08	1.08					1	20 A	REC: 3E-236, 3E-237	30	
	31	REC: WOMEN'S EXAM 14 3E-357	20 A	1	12	12	12	3/4"	1.26	1.08									1	20 A	REC: PULMONARY TEAM...	32	
	33	REC: WOMEN'S EXAM 15 3E-356	20 A	1	12	12	12	3/4"			1.26	1.08							1	20 A	REC: PULMONARY TEAM...	34	
	35	REC: WOMEN'S EXAM 16 3E-355	20 A	1	12	12	12	3/4"					1.26	1.5					1	20 A	MFD: PULMONARY TEAM...	36	
	37	REC: 3E-300I, 3E-359, 3E-360,...	20 A	1	12	12	12	3/4"	1.26	1									1	20 A	SHRED: PULMONARY TEAM...	38	
	39	REC: 3E-319, 3E-300H, 3E-300I	20 A	1	12	12	12	3/4"			1.08	0.54							1	20 A	REC: PULMONARY TEAM...	40	
	41	REC: WOMEN'S EXAM 17 3E-363	20 A	1	12	12	12	3/4"					1.26	1.26					1	20 A	REC: 3E-235, 3E-265, 3E-266	42	
	43	REC: WOMEN'S EXAM 20 3E-364	20 A	1	12	12	12	3/4"	1.26	1.26									1	20 A	REC: ENT EXAM 2 3E-247	44	
	45	REC: WOMEN'S EXAM 18 3E-362	20 A	1	12	12	12	3/4"			1.26	1.26							1	20 A	REC: PULM EXAM 7 3E-244	46	
	47	REC: WOMEN'S EXAM 21 3E-365	20 A	1	12	12	12	3/4"					1.26	1.26					1	20 A	REC: PULM EXAM 4 3E-241	48	
	49	REC: WOMEN'S EXAM 19 3E-361	20 A	1	12	12	12	3/4"	1.26	1.26									1	20 A	REC: ENT EXAM 3 3E-248	50	
	51	REC: WOMEN'S EXAM 22 3E-366	20 A	1	12	12	12	3/4"			1.26	1.26							1	20 A	REC: PULM EXAM 6 3E-243	52	
	53	REC: WOMEN'S EXAM 23 3E-314	20 A	1	12	12	12	3/4"					1.26	1.26					1	20 A	REC: PULM EXAM 5 3E-242	54	
	55	REC: WOMEN'S EXAM 24 3E-315	20 A	1	12	12	12	3/4"	1.26	1.08									1	20 A	REC: 3E-200H, 3E-200I, 3E-200J...	56	
	57	REC: WOMEN'S EXAM 25 3E-316	20 A	1	12	12	12	3/4"			1.26	1.5							1	20 A	MFD: ENT MA 3E-259	58	
	59	REC: WOMEN'S EXAM 26 3E-317	20 A	1	12	12	12	3/4"					1.26	1.08					1	20 A	REC: ENT MA 3E-259	60	
	61	REC: WOMEN'S EXAM 27 3E-318	20 A	1	12	12	12	3/4"	1.26	1.08									1	20 A	REC: ENT PROVIDER OFFICE...	62	
	63	REC: 3E-200G, 3E-253, 3E-254,...	20 A	1	10	10	10	3/4"			1.62	1.08							1	20 A	REC: NURSE OFFICE/ FLEX...	64	
	65	REC: PROCEDURE 1 3E-321	20 A	1	12	12	12	3/4"					1.08	1.08					1	20 A	REC: PULMONARY TEAM...	66	
	67	REC: PROCEDURE 2 3E-320	20 A	1	12	12	12	3/4"	1.08	1.08									1	20 A	REC: SHARED TEAM CENTER...	68	
	69	AUTOCLAVE: CLEAN 3E-248	20 A	1	12	12	12	3/4"			0.18	1.08							1	20 A	REC: PULM PFT/SPIRO #1...	70	
	71	AUTOCLAVE: CLEAN 3E-248	20 A	1	12	12	12	3/4"					0.18	1.44					1	20 A	REC: ENT TREATMENT 3E-208	72	
	73	FIBER SCOPE: CLEAN 3E-248	20 A	1	12	12	12	3/4"	1	1.44									1	20 A	REC: ENT TREATMENT 3E-207	74	
	75	REC: STAFF LOUNGE 3E-250	20 A	1	12	12	12	3/4"			0.72	1.08							1	20 A	REC: CONFERENCE 3E-206	76	
	77	REC: STAFF LOUNGE 3E-250	20 A	1	12	12	12	3/4"					0.72	0.72					1	20 A	REC: CONFERENCE 3E-206	78	
	79	MICRO: STAFF LOUNGE 3E-250	20 A	1	12	12	12	3/4"	1.5	1.26									1	20 A	REC: GEN/PLAS EXAM 14 3E-218	80	
	81	COFFEE: STAFF LOUNGE 3E-250	20 A	1	12	12	12	3/4"			1.5	1.26							1	20 A	REC: GEN/PLAS EXAM 13 3E-217	82	
	83	COFFEE: STAFF LOUNGE 3E-250	20 A	1	12	12	12	3/4"					1.5	1.26					1	20 A	REC: GEN/PLAS EXAM 12 3E-216	84	
	85	REC: PLASTIC SURGERY...	20 A	1	10	10	10	3/4"	0.9	0.5									1	20 A	VAV BOX XFMR: ELEC 3E-319	86	
	87	BED & OH LT: PLASTIC...	20 A	1	12	12	12	3/4"			0.68	0.5							1	20 A	AHU E-9: REC & LTS ROOF	88	
	89	REC: ENT/PULM STORAGE...	20 A	1	12	12	12	3/4"					0.9	0	--	--	--	--	1	20 A	SPARE	90	--
	91	REC: PULM EXAM 1 3E-213	20 A	1	10	10	10	3/4"	1.26	0					--	--	--	--	1	20 A	SPARE	92	--
	93	REC: PULM EXAM 2 3E-214	20 A	1	10	10	10	3/4"			1.26	0			--	--	--	--	1	20 A	SPARE	94	--
	95	REC: GEN/PLASTIC SURG....	20 A	1	8	8	8	3/4"					1.08	0	--	--	--	--	1	20 A	SPARE	96	--
	97	MFD: GEN/PLASTIC TEAM...	20 A	1	8	8	8	3/4"	1.5	0					--	--	--	--	1	20 A	SPARE	98	--
	99	REC: GEN/PLASTIC TEAM...	20 A	1	10	10	10	3/4"			1.08	0			--	--	--	--	1	20 A	SPARE	100	--
	101	REC: GEN/PLASTIC TEAM...	20 A	1	10	10	10	3/4"					1.08	0	--	--	--	--	1	20 A	SPARE	102	--
	103	REC: GEN/PLASTIC TEAM...	20 A	1	10	10	10	3/4"	1.08	0					--	--	--	--	1	20 A	SPARE	104	--
	105	REC: GEN/PLASTIC SURG....	20 A	1	10	10	10	3/4"			1.08	0			--	--	--	--	1	20 A	SPARE	106	--
--	107	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	108	--
--	109	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	110	--
--	111	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	112	--
--	113	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	114	--
--	115	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	116	--
--	117	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	118	--
--	119	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	120	--
--	121	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	122	--
--	123	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	124	--
--	125	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	126	--
--	127	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	128	--
--	129	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	130	--
--	131	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	132	--
--	133	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	134	--
--	135	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	136	--
--	137	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	138	--
--	139	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	140	--
--	141	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	142	--
--	143	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	144	--
--	145	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	146	--
--	147	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	148	--
--	149	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	150	--
--	151	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	152	--
--	153	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	154	--
--	155	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	156	--
--	157	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	158	--
--	159	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	160	--
--	161	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	162	--
--	163	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	164	--
--	165	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	166	--
--	167	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	168	--
			Total Load:						39.38 kVA		36.88 kVA		34.80 kVA										
			Total Amps:						330.83		310.00		290.00										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	1.5 kVA	100.00%	1.5 kVA		
Receptacles	109.56 kVA	54.56%	59.78 kVA	TOTAL CONNECTED LOAD:	111.06 kVA
				TOTAL ESTIMATED DEMAND LOAD:	61.28 kVA
				TOTAL CONNECTED AMPS:	308.27 A
				TOTAL ESTIMATED DEMAND AMPS:	170.1 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

IMEG
1600 BALTIMORE
SUITE 300
KANSAS CITY, MO 64108
P: 816.842.8437
www.imegcorp.com

Missouri Certificate of Authority #F001325536

0 1 2 3
REF. SCALE IN INCHES
PROJECT #21006783.00

BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

ACI
BOLAND
ARCHITECTS

ACI/Boland, Inc.
Kansas City | St. Louis

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

Licensee's Certificate of Authority Number:
Missouri: #000958

CONSTRUCTION
DOCUMENTS

Saint Luke's
EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	01/16/2023
Job Number	3-21037
Drawn By	ZMB
Checked By	PLR

Revision

Number	Date	Description

E704

PANEL SCHEDULES

1/16/2023 7:34:32 PM

BIM 360://3-21037 SLE - ASC Expansion - Revit 2021/MEP21_21006783.00_SLH-East ASC Addition_C.rvt

PANEL E3-3-HN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 0 A/0P @
LOCATION: ELEC. 3E-207A

SOLID NEUTRAL
GROUND BUS

MAIN: 200 A MCB
VOLTS: 480/277 Wye
PHASE: 3
WIRE: 4
SCCR: 22 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE				A		B		C		WIRE SIZE				OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G	C							C	G	N	H	P	AMPS			
	1	LTG. 3RD FLR NORTHEAST...	20 A	1	10	10	10	3/4"	3.1	3.76					3/4"	10	10	10	1	20 A	LTG. 3RD FLR WAITING, ADMIN...	2	
	3	LTG. 3RD FLR NORTHWEST...	20 A	1	10	10	10	3/4"			2.57	2.36			3/4"	10	10	10	1	20 A	LTG. 3RF FLR SOUTHEAST...	4	
	5	LTG. NORTH SIDE CORRIDORS	20 A	1	10	10	10	3/4"					0.81	2.79	3/4"	10	10	10	1	20 A	LTG. 3RD FLR SOUTHWEST...	6	
--	7	SPARE	20 A	1	--	--	--	--	0	0.92					3/4"	10	10	10	1	20 A	LTG. SOUTH SIDE CORRIDORS	8	
--	9	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	10	--
	11	XE3-1-LN	125 A	3	1	1	6	2"					39.38	0	--	--	--	--	1	20 A	SPARE	12	--
--	13	--	--	--	--	--	--	--	36.88	0					--	--	--	--	1	20 A	SPARE	14	--
--	15	--	--	--	--	--	--	--			34.8	0			--	--	--	--	1	20 A	SPARE	16	--
	17	XE3-4-LN	125 A	3	1	1	6	2"					30.92	0	--	--	--	--	1	20 A	SPARE	18	--
--	19	--	--	--	--	--	--	--	31.39	0					--	--	--	--	1	20 A	SPARE	20	--
--	21	--	--	--	--	--	--	--			31.29	0			--	--	--	--	1	20 A	SPARE	22	--
--	23	SPARE	20 A	1	--	--	--	--					0	--	--	--	--	--	1	--	SPACE	24	--
--	25	SPARE	20 A	1	--	--	--	--	0	--					--	--	--	--	1	--	SPACE	26	--
--	27	SPARE	20 A	1	--	--	--	--			0	--			--	--	--	--	1	--	SPACE	28	--
--	29	SPARE	20 A	1	--	--	--	--					0	--	--	--	--	--	1	--	SPACE	30	--
--	31	SPARE	20 A	1	--	--	--	--	0	--					--	--	--	--	1	--	SPACE	32	--
--	33	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	34	--
--	35	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	36	--
--	37	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	38	--
--	39	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	40	--
--	41	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	42	--
								Total Load:	76.05 kVA		71.03 kVA		73.90 kVA										
								Total Amps:	276.13		256.41		268.37										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Lighting	16.309 kVA	100.00%	16.309 kVA		
Power	16.56 kVA	100.00%	16.56 kVA	TOTAL CONNECTED LOAD:	220.97 kVA
Receptacles	188.1 kVA	52.66%	99.05 kVA	TOTAL ESTIMATED DEMAND LOAD:	131.919 kVA
				TOTAL CONNECTED AMPS:	265.78 A
				TOTAL ESTIMATED DEMAND AMPS:	158.7 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

PANEL E3-4-LN

MOUNTING: SURFACE
ENCLOSURE: NEMA PB 1
FED FROM: 250 A/3P @ XE3-4-LN
LOCATION: ELEC. 3E-207A

SOLID NEUTRAL
GROUND BUS

MAIN: 250 A MCB
VOLTS: 120/208 Wye
PHASE: 3
WIRE: 4
SCCR: 10 kA
ISC UNKNOWN 0.00 kA

NOTES:

KEY	CKT NO.	LOAD DESCRIPTION	OCPD		WIRE SIZE				A		B		C		WIRE SIZE				OCPD		LOAD DESCRIPTION	CKT NO.	KEY
			AMPS	P	H	N	G	C							C	G	N	H	P	AMPS			
	1	REC: LAB 3E-302	20 A	1	12	12	12	3/4"	0.54	0.8					3/4"	12	12	12	1	20 A	MTRZD SHD: WAITING 3E-101	2	
	3	REC: LAB 3E-302	20 A	1	12	12	12	3/4"			0.54	0.8			3/4"	12	12	12	1	20 A	MTRZD SHD: WAITING 3E-101	4	
	5	REF: LAB 3E-302	20 A	1	12	12	12	3/4"					0.75	1.08	3/4"	12	12	12	1	20 A	FURN: WAITING 3E-101	6	
	7	REF: LAB 3E-302	20 A	1	12	12	12	3/4"	0.75	1.08					3/4"	12	12	12	1	20 A	REC: 3E-201, 3E-329, 3E-330	8	
	9	REC: 3E-300A, 3E-301, 3E-305	20 A	1	10	10	10	3/4"			1.26	1.08			3/4"	12	12	12	1	20 A	REC: 3E-329, 3E-330	10	
	11	REC: SCHEDULING (3-4) 3E-304	20 A	1	10	10	10	3/4"					1.08	1.08	3/4"	12	12	12	1	20 A	REC:	12	
	13	REC: SCHEDULING (3-4) 3E-304	20 A	1	12	12	12	3/4"	1.08	1.08					3/4"	12	12	12	1	20 A	REC:	14	
	15	MFD: SCHEDULING (3-4) 3E-304	20 A	1	10	10	10	3/4"			1.5	1.08			3/4"	12	12	12	1	20 A	REC: CHECK IN 3E-201	16	
	17	REC: PROVIDER 1/2 3E-305	20 A	1	12	12	12	3/4"					1.08	1.44	3/4"	12	12	12	1	20 A	REC: 3E-200B, 3E-200D, 3E-204...	18	
	19	REC: NURSE / TEAM CENTER 1...	20 A	1	10	10	10	3/4"	1.08	1.08					3/4"	12	12	12	1	20 A	REC: CHECK OUT 3E-327	20	
	21	REC: NURSE / TEAM CENTER 1...	20 A	1	10	10	10	3/4"			1.08	1.26			3/4"	12	12	12	1	20 A	REC: GEN/PLAS EXAM 1 3E-205	22	
	23	REC: NURSE / TEAM CENTER 1...	20 A	1	10	10	10	3/4"					1.08	1.26	3/4"	12	12	12	1	20 A	REC: GEN/PLAS EXAM 2 3E-206	24	
	25	MFD: NURSE / TEAM CENTER ...	20 A	1	8	8	8	3/4"	1.5	1.44					3/4"	12	12	12	1	20 A	REC: ULTRASOUND 1 3E-326	26	
	27	REC: PROVIDER 3/4 3E-307	20 A	1	10	10	10	3/4"			1.08	0.36			3/4"	12	12	12	1	20 A	REC: IT 3E-205B	28	
	29	MTRZD SHD: WAITING 3E-101	20 A	1	12	12	12	3/4"					0.8	1	3/4"	10	--	10	2	30 A	RACK: IT 3E-205B	30	
	31	MTRZD SHD: WAITING 3E-101	20 A	1	12	12	12	3/4"	0.8	1					--	--	--	--	--	--	--	32	--
	33	MTRZD SHD: WAITING 3E-101	20 A	1	12	12	12	3/4"			0.8	1.44			3/4"	12	12	12	1	20 A	REC: ULTRASOUND 2 3E-324	34	
	35	REC: WOMEN'S EXAM 1 3E-333	20 A	1	10	10	10	3/4"					1.26	1.26	3/4"	12	12	12	1	20 A	REC: ULTRASOUND 3 3E-323	36	
	37	REC: WOMEN'S EXAM 2 3E-332	20 A	1	10	10	10	3/4"	1.26	1.5					3/4"	12	12	12	1	20 A	MFD: WAITING 3E-101	38	
	39	REC: WOMEN'S EXAM 3 3E-331	20 A	1	12	12	12	3/4"			1.26	1.26			3/4"	12	12	12	1	20 A	REC: GEN/PLAS EXAM 3 3E-226	40	
	41	REC: 3E-300A, 3E-300C, 3E-334...	20 A	1	8	8	8	3/4"					1.62	1.26	3/4"	12	12	12	1	20 A	REC: GEN/PLAS EXAM 4 3E-227	42	
	43	REF: ALCOVE 3E-334	20 A	1	12	12	12	3/4"	0.75	1.26					3/4"	12	12	12	1	20 A	REC: GEN/PLAS EXAM 5 3E-228	44	
	45	REC: WOMEN'S EXAM 4 3E-336	20 A	1	12	12	12	3/4"			1.26	1.62			3/4"	10	10	10	1	20 A	REC: 3E-102, 3E-200B, 3E-200E...	46	
	47	REC: WOMEN'S EXAM 5 3E-337	20 A	1	12	12	12	3/4"					1.26	1.08	3/4"	12	12	12	1	20 A	REC: GEN/PLASTIC SURG....	48	
	49	REC: WOMEN'S EXAM 6 3E-341	20 A	1	10	10	10	3/4"	1.26	1.26					3/4"	12	12	12	1	20 A	REC: GEN/PLAS EXAM 8 3E-225	50	
	51	REC: WOMEN'S EXAM 7 3E-340	20 A	1	12	12	12	3/4"			1.26	1.26			3/4"	12	12	12	1	20 A	REC: GEN/PLAS EXAM 7 3E-224	52	
	53	REC: WOMEN'S EXAM 8 3E-339	20 A	1	12	12	12	3/4"					1.26	1.26	3/4"	12	12	12	1	20 A	REC: GEN/PLAS EXAM 6 3E-223	54	
	55	REF: ALCOVE 3E-342	20 A	1	12	12	12	3/4"	0.75	1.5					3/4"	10	10	10	1	20 A	MFD: GEN/PLASTIC TEAM...	56	
	57	REC: 3E-300F, 3E-346, 3E-350,...	20 A	1	10	10	10	3/4"			1.08	1.44			3/4"	12	12	12	1	20 A	REC: GEN/PLASTIC TEAM...	58	
	59	REC: WOMEN'S EXAM 9 3E-344	20 A	1	10	10	10	3/4"					1.26	1.44	3/4"	12	12	12	1	20 A	REC: GEN/PLASTIC TEAM...	60	
	61	REC: WOMEN'S EXAM 10 3E-345	20 A	1	12	12	12	3/4"	1.26	1.08					3/4"	12	12	12	1	20 A	REC: GEN/PLASTIC TEAM...	62	
	63	REC: WOMEN'S EXAM 11 3E-349	20 A	1	10	10	10	3/4"			1.26	1.08			3/4"	12	12	12	1	20 A	REC: GEN/PLASTIC TEAM...	64	
	65	REC: WOMEN'S EXAM 12 3E-348	20 A	1	10	10	10	3/4"					1.26	1.08	3/4"	12	12	12	1	20 A	REC: GENERAL SURGERY...	66	
	67	REC: WOMEN'S EXAM 13 3E-347	20 A	1	10	10	10	3/4"	1.26	1.26					3/4"	12	12	12	1	20 A	REC: GEN/PLAS EXAM 9 3E-219	68	
	69	REF: ALCOVE 3E-350	20 A	1	12	12	12	3/4"			0.75	1.26			3/4"	12	12	12	1	20 A	REC: GEN/PLAS EXAM 10 3E-220	70	
	71	REC: 3E-100, 3E-101	20 A	1	8	8	8	3/4"					1.44	1.26	3/4"	12	12	12	1	20 A	REC: GEN/PLAS EXAM 11 3E-221	72	
	73	ICE: WAITING 3E-101	20 A	1	12	12	12	3/4"	0.75	1.08					3/4"	10	10	10	1	20 A	REC: 3E-200C, 3E-200F, 3E-234	74	
	75	MTRZD SHD: WAITING 3E-101	20 A	1	12	12	12	3/4"			0.8	0.68			3/4"	12	12	12	1	20 A	BED & OH LT: GENERAL...	76	
	77	MTRZD SHD: WAITING 3E-101	20 A	1	12	12	12	3/4"					0.8	0.18	3/4"	12	12	12	1	20 A	EWC: WAITING 3E-101	78	
	79	MTRZD SHD: WAITING 3E-101	20 A	1	12	12	12	3/4"	0.8	0					--	--	--	--	1	20 A	SPARE	80	--
	81	MTRZD SHD: WAITING 3E-101	20 A	1	12	12	12	3/4"			0.8	0			--	--	--	--	1	20 A	SPARE	82	--
	83	MTRZD SHD: WAITING 3E-101	20 A	1	12	12	12	3/4"					0.8	0	--	--	--	--	1	20 A	SPARE	84	--
	85	AHU-E-13	20 A	1	12	12	12	3/4"	0	0					--	--	--	--	1	20 A	SPARE	86	--
	87	EF-15: ROOF	20 A	1	12	12	12	3/4"			0.86	0			--	--	--	--	1	20 A	SPARE	88	--
	89	EF-16: ROOF	20 A	1	12	12	12	3/4"					0.86	0	--	--	--	--	1	20 A	SPARE	90	--
	91	EF-17: ROOF	25 A	1	8	8	8	3/4"	1.66	0					--	--	--	--	1	20 A	SPARE	92	--
	93	EF-18: ROOF	20 A	1	12	12	12	3/4"			1.18	0			--	--	--	--	1	20 A	SPARE	94	--
--	95	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	96	--
--	97	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	98	--
--	99	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	100	--
--	101	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	102	--
--	103	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	104	--
--	105	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	106	--
--	107	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	108	--
--	109	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	110	--
--	111	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	112	--
--	113	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	114	--
--	115	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	116	--
--	117	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	118	--
--	119	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	120	--
--	121	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	122	--
--	123	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	124	--
--	125	SPARE	20 A	1	--	--	--	--					0	0	--	--	--	--	1	20 A	SPARE	126	--
--	127	SPARE	20 A	1	--	--	--	--	0	0					--	--	--	--	1	20 A	SPARE	128	--
--	129	SPARE	20 A	1	--	--	--	--			0	0			--	--	--	--	1	20 A	SPARE	130	--
--	131	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	132	--
--	133	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	134	--
--	135	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	136	--
--	137	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	138	--
--	139	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	140	--
--	141	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	142	--
--	143	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	144	--
--	145	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	146	--
--	147	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	148	--
--	149	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	150	--
--	151	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	152	--
--	153	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	154	--
--	155	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	156	--
--	157	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	158	--
--	159	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	160	--
--	161	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	162	--
--	163	SPACE	--	1	--	--	--	--	--	--					--	--	--	--	1	--	SPACE	164	--
--	165	SPACE	--	1	--	--	--	--			--	--			--	--	--	--	1	--	SPACE	166	--
--	167	SPACE	--	1	--	--	--	--					--	--	--	--	--	--	1	--	SPACE	168	--
								Total Load:	30.92 kVA		31.39 kVA		31.29 kVA										
								Total Amps:	257.63		262.07		261.27										

LOAD SUMMARY

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	TOTALS*	
Power	15.06 kVA	100.00%	15.06 kVA		
Receptacles	78.54 kVA	56.37%	44.27 kVA	TOTAL CONNECTED LOAD:	93.60 kVA
				TOTAL ESTIMATED DEMAND LOAD:	59.33 kVA
				TOTAL CONNECTED AMPS:	259.81 A
				TOTAL ESTIMATED DEMAND AMPS:	164.7 A

*TOTAL DEMAND CALCS SUBTRACT ANY REDUNDANT LOAD AND THE SMALLER OF ANY NONCOINCIDENT HVAC LOADS. THIS CALC IS DONE AT EACH PANEL.

CIRCUIT KEY NOTES:

BRUCE ELDON HART
NUMBER E-22817
1/16/2023

Bruce E. Hart - Engineer
License - Missouri #E-22817

ACI/Boland, Inc.
Kansas City | St. Louis

1710 Wyandotte
Kansas City, MO 64108
T: 816.763.9600

Licensee's Certificate of Authority Number:
Missouri: #000958

CONSTRUCTION
DOCUMENTS

EAST HOSPITAL
ASC EXPANSION & RENOVATION
100 NE Saint Luke's Blvd
Lee's Summit, MO 64086

Date	01/16/2023
Job Number	3-21037
Drawn By	ZMB
Checked By	PLR

Revision

Number	Date	Description

1600 BALTIMORE
SUITE 300
KANSAS CITY, MO 64108
P: 816.842.8437
www.imegcorp.com

Missouri Certificate of Authority #F001325536

0 1 2 3
REF. SCALE IN INCHES
PROJECT #21006783.00

E705

PANEL SCHEDULES