

1. ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES TO AVOID INTERFERENCES AND CONFLICTS. REFER TO THE DRAWINGS OF THE RESPECTIVE SYSTEMS FOR SUBMISSION OF BIDS FOR ADDITIONAL WORK WHICH MAY BE REQUIRED AS PART OF THIS WORK. NO ALLOWANCES WILL BE MADE FOR THE LACK OF COORDINATION BETWEEN DISCIPLINES OR SYSTEMS AND EQUIPMENT.
2. THE WORK SHALL BE COORDINATED WITH THE ARCHITECTURAL DOCUMENTS FOR THE EXACT LOCATION OF LIGHT FIXTURES, EQUIPMENT, DEVICES, ETC. TO ASSURE PROPER PLACEMENT OF SAID DEVICES. IF CONFLICTS ARE ENCOUNTERED, THE CONTRACTOR SHALL BE REQUIRED TO MAKE OPENINGS. WHERE A CONFLICT EXISTS BETWEEN ANY TWO DOCUMENTS, NOTIFY THE ARCHITECT PRIOR TO ANY INSTALLATION FOR RESOLUTION.
3. THE CONTRACTOR SHALL VERIFY ALL EQUIPMENT BEING INSTALLED PRIOR TO INSTALLATION TO ASSURE THAT THE FEEDER, DISCONNECT, STARTER, OVERCURRENT PROTECTION, ETC. MATERIALS ARE IDENTICAL TO THE MATERIALS SPECIFIED BY THE MANUFACTURER. FULLY COORDINATE EQUIPMENT TO BE PROVIDED TO ASSURE NO ADDITIONAL COSTS TO THE CONTRACT.
4. CONDUIT HUMERUS MAY BE COMBINED TO INCLUDE UP TO FOUR (4) CIRCUITS. PROVIDE QUANTITY OF NEUTRALS INDICATED FOR EACH CIRCUIT.
5. SPECIFIC REQUIREMENTS REGARDING MATERIALS, WORKMANSHIP AND THE WORK TO BE DONE ARE PROVIDED IN THE SPECIFICATIONS. THE CONTRACTOR SHALL BE REQUIRED TO CALL FOR THE SPECIFICATIONS OR THE PLANS IS REQUIRED THE SAME AS IF REQUIRED BY BOTH. WHERE A CONFLICT EXISTS BETWEEN THE PLANS AND THE SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS OF THE TWO SHALL APPLY UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
6. COORDINATE ALL CUSTOM RECEPTACLES AND CIRCUITS WITH EQUIPMENT FURNISHED BY OWNER. PROVIDE OUTLETS COMPATIBLE WITH EQUIPMENT REQUIREMENTS.
7. PROVIDE FIRE ALARM CONTROL PANEL AT LOCATION SHOWN IN ACCORDANCE WITH NFPA 72. PROVIDE ADEQUATE ALARM RECEIVING AND OUTPUT MODULES TO ACCOMMODATE DEVICES SHOWN ON PLANS. ALL COMPONENTS OF THE FIRE ALARM SYSTEM SHALL CONFORM TO ADA GUIDELINES.
8. SUPPORT ALL ELECTRICAL CONDUIT, RACEWAY, OUTLET AND JUNCTION BOXES VIA THREADED RODS AND WEDGES. PROVIDE SUPPORTS TO BE APPROVED BY THE MANUFACTURER. SECURE ANY ITEM EXCEPT LIGHT FIXTURES TO CEILING CONDUIT OR SUPPORT WIRES. SUPPORT MULTIPLE CONDUITS FROM ADDITIONAL WIRES COMPLYING WITH NEC ART. 300.11.
9. ALL PANELS SHALL HAVE CORRECT BAKELITE NAMEPLATE ON THE COVER, LABELED CIRCUIT NUMBERING AND UPDATED, TYPEWRITTEN PANELBOARD DIRECTORY. DO NOT SIMPLY USE COPIES OF DESIGN PANEL SCHEDULES FROM DRAWINGS.
10. ALL CONDUIT PENETRATIONS OF FIRE RATED WALLS, FLOORS, AND PARTITIONS SHALL BE "FIRESTOP" PENETRATED WITH A U.L. RECOGNIZED PRODUCT RESTORING THE INTEGRITY OF THE BARRIER PENETRATED. UTILIZE NELSON "FSP" FIRESTOP PUTTY, "PCS" PIPE CHOKER SYSTEM, OR "CLC" FIRESTOP CAULK TO PROVIDE A U.L. LISTED ASSEMBLY, OR APPROVED ALTERNATE.
11. CONTRACTOR SHALL TEST EACH AND EVERY WIRING DEVICE AND LIGHT FIXTURE FOR CORRECT OPERATION AND DOCUMENT PROJECT VOLTAGE READINGS. PROVIDE COPY OF LIGHTING AND POWER FLOOR PLANS WITH DEVICES AND FIXTURES HIGHLIGHTED TO INDICATE SUCCESSFUL TESTING AND OPERATION. SUBMIT TO THE ARCHITECT PRIOR TO REQUEST FOR FINAL CONSTRUCTION REVIEW.
12. FIRE ALARM VISUAL SIGNALING DEVICES SHALL BE 75cd STROBES MINIMUM AND SHALL COMPLY WITH UL 1368.
13. REFER TO EQUIPMENT CUT SHEETS AND MANUFACTURER'S DATA FOR ROUGH IN LOCATIONS OF ELECTRICAL CONNECTIONS AND INTERCONNECTIONS OF ALL EQUIPMENT.
14. CONTRACTOR SHALL COORDINATE ELEVATIONS AND PIPING SYSTEM SLOPES SUCH THAT DUCTWORK, PIPING, RACEWAY, CABLE TRAY, AND ASSOCIATED EQUIPMENT IS INSTALLED AT UNIFORM ELEVATIONS WITH MINIMAL OFFSET. PROVIDE COORDINATION DRAWING TO ENGINEER FOR REVIEW PRIOR TO EQUIPMENT ORDERS AND ROUGH-IN.
15. COORDINATE WITH SPECIALTY SYSTEMS VENDORS TO PROVIDE RACEWAY AND CABLING, POWER AND CONTROL INTERFACES AS REQUIRED FOR COMPLETE, OPERABLE SYSTEMS.
16. AFTER INSTALLATION OF ALL NEW DISTRIBUTION EQUIPMENT, THE CONTRACTOR SHALL CONDUCT A FULL SHORT CIRCUIT COORDINATION STUDY TO CONFIRM REQUIRED CIRCUIT BREAKER TRIPPING SETTINGS AND TRIP TIMES FOR ALL EQUIPMENT TO BE PROVIDED. PROVIDE REPORT INDICATING RECOMMENDED SETTINGS AND TRIP CURVES.
17. ALL ELECTRICAL EQUIPMENT SHALL BE MARKED WITH ARC FLASH HAZARD WARNING LABELS IN ACCORDANCE WITH THE REQUIREMENTS OF NEC 110.16.
18. FOR 120V AND 277V BRANCH CIRCUITS RUNS OVER 100' AND 200' RESPECTIVELY PROVIDE #10 AWG CONDUCTORS.

- CONFIRM SERVICE ENTRY LOCATIONS, ROUTING, AND OTHER REQUIREMENTS WITH UTILITY COMPANIES.
- COORDINATE AND PROVIDE TEMPORARY POWER FOR THE COMPLETION OF THIS PROJECT AS REQUIRED.

REFER TO LOW VOLTAGE / TECHNOLOGY DRAWINGS FOR ADDITIONAL ELECTRICAL REQUIREMENTS.

VOICE/DATA SYSTEMS:
PROVIDE OUTLET BOXES AND CONDUIT STUB-UPS WITH PULL STRINGS ONLY. ALL DEVICES AND WIRING BY OTHERS.

SECURITY / ACCESS CONTROL SYSTEMS:
PROVIDE OUTLET BOXES AND CONDUIT STUB-UPS WITH PULL STRINGS ONLY. ALL DEVICES AND WIRING BY OTHERS.

- ALL RECEPTABLES IN PUBLIC AREAS, CORRIDORS, AND UNITS SHALL BE TAMPER-RESISTANT TYPE.
- IN SERVICE AREAS, THE COLOR SHALL BE WHITE WITH STAINLESS STEEL COVERPLATES, UNLESS NOTED OTHERWISE.
- IN PUBLIC AREAS, THE RECEPTACLE AND COVERPLATE COLORS SHALL BE COORDINATED WITH THE COLORS OF THE SURROUNDINGS. ARCHITECT AND INTERIOR DESIGNER TO PROVIDE FINAL APPROVAL BEFORE INSTALLATION.

- PROVIDE A COMPLETE UL LISTED, CLASS II, LIGHTNING PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 780 & UL 96A.
- OBTAIN A UL MASTER LABEL.
- CONCEAL CONDUCTORS IN CONDUIT WITHIN BUILDING WALLS.
- COORDINATE INSTALLATION WITH ROOFING CONTRACTOR TO AVOID VOIDING ROOF WARRANTY.

PROVIDE RECEPTEABLE AND DATA OUTLET FOR AREA OF REFUGE BASE STATION AT 60" AT LOCATION APPROVED BY AHJ. BASE STATION TO BE MOUNTED 60" AFF TO CENTER PER CODE.

PROVIDE DATA OUTLET FOR AREA OF REFUGE CALL BOX AT 48" AT EACH ELEVATOR OR STAIR LANDING, ABOVE AND BELOW LEVEL OF DISCHARGE. CALL BOX TO BE MOUNTED 48" AFF TO PUSH BUTTON. COORDINATE EXACT LOCATION WITH ARCHITECT, FINAL LOCATION APPROVAL BY AHJ.

TWO-WAY COMMUNICATIONS SYSTEM TO BE PROVIDED WITH BATTERY BACKUP.

- PROVIDE AN EMERGENCY RESPONDER / PUBLIC SAFETY RADIO ENHANCEMENT SYSTEM, ALSO KNOWN AS SDA / DAs (BI-DIRECTIONAL AMPLIFIER/DISTRIBUTED ANTENNA SYSTEM), FOR ALL AREAS OF THE BUILDING WHERE TESTING INDICATES THAT SIGNAL STRENGTH DOES NOT MEET MINIMUM CRITERIA.
- SYSTEM SHALL CONFORM TO NFPA 72, CH 24.3.13.8.
- COORDINATE WITH THE CITY OF JUNO BEACH INFORMATION TECHNOLOGY DEPARTMENT, JUNO BEACH DEPARTMENT OF CONSTRUCTION, INSPECTIONS AND THE JUNO BEACH FIRE DEPARTMENT FOR ALL NECESSARY REQUIREMENTS, SUBMITTALS, TESTING & DOCUMENTATION.
- WHERE REQUIRED, THERE SHALL BE ONE SYSTEM FOR THE BUILDING.

• **PROVIDE STANDBY POWER FOR SYSTEM (MIN. 12 HOURS) AS REQUIRED BY SECTION 917 OF FLORIDA FIRE PREVENTION CODE.**

BUILDING SHALL BE PROVIDED WITH SPEAKER/STROBES DEVICES THROUGHOUT THE BUILDING. THE SYSTEM SHALL BE CAPABLE OF BROADCASTING LIVE AND PRE-RECORDED MESSAGES THROUGH SPEAKERS IN ALL AREAS OF THE BUILDING.

ALL PUBLIC AREAS AND RESIDENTIAL UNITS TO HAVE FULLY ADDRESSABLE SMOKE DETECTOR / CARBON MONOXIDE DETECTOR COVERAGE.

ALL SMOKE/CARBON MONOXIDE DETECTOR DEVICES LOCATED IN INDEPENDENT LIVING DWELLING UNITS SHALL BE TIED TOGETHER SO THAT IF ONE GOES OFF, ALL GO OFF INSIDE THE DWELLING UNIT. SMOKE/CARBON MONOXIDE DETECTORS SHALL NOT ACTUATE THE BUILDING FIRE ALARM SYSTEM BUT SHALL BE TIED TO FIRE ALARM ANNUNCIATOR PANEL.

ALL FIRE ALARM DEVICES IN SLEEPING UNITS SHALL BE LOW FREQUENCY (520 HZ) TYPE.

PROVIDE POWER FROM LOCAL NON-DEDICATED 120V CIRCUIT TO MOTORIZED DOORS WHERE INDICATED BY ARCHITECTURAL DRAWINGS. REFER TO LOW VOLTAGE DRAWINGS FOR ADDITIONAL SCOPE.

PROVIDE ALLOWANCE FOR ADDITIONAL SITE LIGHTING NOT SHOWN ON THESE DRAWINGS. TBD IN FUTURE PHASE.

SYMBOL	DESCRIPTION	MTG HT UNO
	ARROWHEAD INDICATES HOMERUN, X-1,3, AND 5 ADJACENT TO HOMERUN ARROWHEADS INDICATES HOMERUN TO PANEL X, CIRCUIT NUMBERS 1, 3, AND 5.	
	INDICATES CIRCUIT CONTINUATION OF CIRCUITS 3 AND 5 OF PANEL X.	
	MARKS ACROSS RACEWAY SYMBOLS INDICATE THE NUMBER OF #12 CONDUCTORS, UNLESS OTHERWISE NOTED. NO MARKS INDICATE TWO #12 CONDUCTORS. EQUIPMENT GROUNDING CONDUCTORS ARE NOT INDICATED BY MARKS, BUT ARE REQUIRED.	
	RACEWAY INSTALLED CONCEALED IN WALL OR ABOVE CEILING / CONCEALED BELOW FLOOR	
	DUPLEX RECEPTACLE OUTLET / CEILING RECEPTACLE OUTLET	18"
	EMERGENCY DUPLEX RECEPT. OUTLET (ON GENERATOR POWER) - RED COLOR	18"
	WEATHERPROOF DUPLEX RECEPTACLE OUTLET	18"
	QUADRUPLX RECEPTACLE OUTLET	18"
	DUPLEX OR QUAD ON DEDICATED CIRCUIT - NOTE 6	18"
	GFCI DUPLEX / GFCI DUPLEX RECEPTACLE OUTLET - ABOVE COUNTER	18"/42"
	SPECIAL PURPOSE RECEPTACLE OUTLET, NEMA CONFIGURATION AS REQUIRED BY EQUIPMENT TO BE CONNECTED.	18"
	COMBINATION DATA/TELEPHONE OUTLET / CEILING MOUNTED - NOTE 5	18"
	PANEL AS NOTED	
	FUSIBLE / NON-FUSED DISCONNECT SWITCH	
	THREE-WAY TOGGLE SWITCH / FOUR-WAY TOGGLE SWITCH - NOTE 8	46"
	JUNCTION BOX - CEILING MOUNTED / WALL MOUNTED / FLOOR MOUNTED	
	TELEPHONE BACKBOARD	
	CEILING MOUNTED EXIT SIGN - NOTE 7	
	CEILING MOUNTED CARBON MONOXIDE-SMOKE DETECTOR COMBO UNIT / HEAT DETECTOR - NOTE 3	
	MAGNETIC DOOR HOLD DEVICE - NOTE 3	
	FIRE ALARM AUDIO/VISUAL SIGNALING DEVICE/WEATHER-PROOF - NOTE 3	80" TO BOTTOM
	FIRE ALARM WALL MOUNTED SPEAKER - NOTE 3	80" TO BOTTOM
	FIRE ALARM CEILING MOUNTED SPEAKER - NOTE 3	
	FIRE ALARM VISUAL SIGNALING DEVICE - NOTE 3	80" TO BOTTOM
	FIRE ALARM PULLSTATION DEVICE/WEATHER-PROOF - NOTE 3	46"
	FIRE ALARM CONTROL PANEL	
	FIRE ALARM ANNUNCIATOR	
	SECURITY CAMERA - NOTE 9	
	BADGE READER BY OWNER'S VENDOR	42"
	DOOR CONTACT BY OWNER'S VENDOR - NOTE 10	
	TV OUTLET - NOTE 11	
	POKE-THRU FITTING FOR POWER/COMM FURNITURE FEED - NOTE 12	
	FLOOR BOX - QUAD RECEPTACLE WITH DATA - NOTE 13	
	POKE-THRU - QUAD RECEPTACLE WITH DATA - NOTE 14	
	POKE-THRU - QUAD RECEPTACLE WITH DATA AND AV - NOTE 15	
	POKE-THRU - DUPLEX RECEPTACLE - NOTE 16	
	POKE-THRU - DUPLEX RECEPTACLE WITH DATA - NOTE 17	
	OUTDOOR GROUND BOX WITH DUPLEX RECEPTACLE - NOTE 18	
	OUTDOOR GROUND BOX WITH DATA - NOTE 19	
	DOOR BELL / DOOR BELL OFF SWITCH / DOOR BELL ANNUNCIATOR (HORN AND STROBE)	46"/46"80"

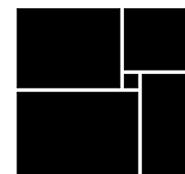
1. UNLESS NOTED OTHERWISE, MOUNTING HEIGHT DIMENSIONS ARE TO THE CENTERLINE OF THE DEVICE OR OUTLET ABOVE GRADE OR FINISHED FLOOR.
2. ALL SYMBOLS INDICATED IN THE LEGEND MAY NOT NECESSARILY BE USED ON THE PLANS.
3. EXTEND AND CONNECT TO BUILDING FIRE ALARM SYSTEM. DEVICE MOUNTING HEIGHTS SHALL COMPLY WITH NFPA 72. SEE GENERAL NOTE 7 ON THIS SHEET. ALL VISUAL DEVICES ARE 75CD UNLESS NOTED OTHERWISE. REFER TO "LOW FREQUENCY FIRE ALARM DEVICES" NOTE ON THIS PAGE.
4. THE LETTER "E" ADJACENT TO ANY SYMBOL INDICATES THAT IT IS EXISTING TO REMAIN. THE LETTER "ER" INDICATES EXISTING TO BE RELOCATED.
5. PROVIDE 4"x4" JUNCTION BOX WITH DOUBLE GANG PLASTER RING AND 1-1/4" CONDUIT WITH PULL-STRING UP TO ACCESSIBLE CEILING CAVITY. PROVIDE SMOOTH PLASTIC BUSHING AT OPEN END OF CONDUIT.
6. LABEL COVERPLATES OF ALL DEVICES ON DEDICATED CIRCUITS "DEDICATED."
7. FACE QUANTITY AND DIRECTIONAL ARROWS AS INDICATED.
8. PROVIDE INTERCONNECT CONDUCTORS AS REQUIRED TO PROVIDE MULTIPLE SWITCH POINTS IN EACH AREA SHOWN.
9. PROVIDE 4"x4" JUNCTION BOX WITH DOUBLE GANG PLASTER RING. PROVIDE SMOOTH PLASTIC BUSHING AT OPEN END OF CONDUIT.
10. PROVIDE 3/4" UP TO 6"X 6"X 4" D. JBOX IN ACCESSIBLE CEILING. COORDINATE EXACT REQUIREMENTS WITH LOW VOLTAGE DRAWINGS.
11. PROVIDE RECESSED 4-GANG TV BOX (ARLINGTON #TVB5619) FOR WALL MOUNTED TELEVISION. PROVIDE (1) QUAD RECEPTACLE, (1) DATA/CABLE COMBO OUTLET, AND (1) HDMI OUTLET. FINAL LOCATION TO BE DETERMINED WITH OWNER IN FIELD. PROVIDE 3/4" FOR POWER AND 1-1/4" FOR DATA TO EXTEND FROM TV BOX SUBBED UP 6" ABOVE ACCESSIBLE CEILING WITH INSULATED BUSHING WHERE REQUIRED.
12. PROVIDE WIREMOLD 4FCATC SERIES WITH BARRIERED RACEWAY, CONDUIT ADAPTER AND 3/4" FOR POWER, 1-1/2" FOR COMMUNICATIONS.
13. PROVIDE WIREMOLD RFB4-OG FLOOR BOX WITH QUAD RECEPTACLE AND BLANK PLATE FOR TWO (2) CAT6 JACKS. PROVIDE 3/4" TRENCHED IN SLAB FOR POWER AND 1-1/4" TRENCHED IN SLAB FOR DATA.
14. PROVIDE WIREMOLD EVOLUTION SERIES 6AT POKE-THRU WITH QUAD RECEPTACLE AND BLANK PLATE FOR TWO (2) CAT6 JACKS. PROVIDE 3/4" FOR POWER AND 1-1/4" FOR DATA.
15. PROVIDE WIREMOLD EVOLUTION SERIES 8AT POKE-THRU WITH QUAD RECEPTACLE, BLANK PLATE FOR TWO (2) CAT6 JACKS, AND AV PLATES AS CHOSEN BY AV VENDOR. PROVIDE 3/4" FOR POWER, 1-1/4" FOR DATA, 1-1/2" FOR AV. PROVIDE ADDITIONAL 1-1/4" FOR DATA AND 1-1/2" FOR AV TO TV OUTLET IN ROOM IF NOTED ON AV DRAWINGS.
16. PROVIDE WIREMOLD EVOLUTION SERIES 4AT POKE-THRU WITH DUPLEX RECEPTACLE. PROVIDE 3/4" FOR POWER.
17. PROVIDE WIREMOLD EVOLUTION SERIES 4AT POKE-THRU WITH DUPLEX RECEPTACLE AND BLANK PLATE FOR TWO (2) CAT6 JACKS. PROVIDE 3/4" FOR POWER AND 1-1/4" FOR DATA.
18. PROVIDE WIREMOLD OUTDOOR GROUND BOX WITH DUPLEX RECEPTACLE. PROVIDE 3/4" FOR POWER.
19. PROVIDE WIREMOLD OUTDOOR GROUND BOX WITH DATA. PROVIDE 1-1/4" FOR DATA.

- 2023 Florida Building Code (FBC), 8th Edition [based on 2020 NEC and 2021 I-Codes with state amendments]
- 2023 FBC, 8th Edition, Energy Conservation [based on 2021 IECC with state amendments]
- 2023 (8th Edition) Florida Fire Prevention Code
- Low Rise Building Classification

SHEET NUMBER	SHEET NAME
E-001	ELECTRICAL GENERAL - II.
E-002	LIGHTING GENERAL
E-100	ELECTRICAL FIRST FLOOR - AREA A
E-141A	ELECTRICAL FIRST FLOOR - AREA A
E-141B	ELECTRICAL FIRST FLOOR - AREA B
E-142A	ELECTRICAL SECOND FLOOR - AREA A
E-142B	ELECTRICAL SECOND FLOOR - AREA B
E-143A	ELECTRICAL THIRD FLOOR - AREA A
E-143B	ELECTRICAL THIRD FLOOR - AREA B
E-144A	ELECTRICAL FOURTH FLOOR - AREA A
E-144B	ELECTRICAL ROOF - AREA B
E-145A	ELECTRICAL ROOF - AREA A
E-241A	LIGHTING FIRST FLOOR - AREA A
E-241B	LIGHTING FIRST FLOOR - AREA B
E-242A	LIGHTING SECOND FLOOR - AREA A
E-242B	LIGHTING SECOND FLOOR - AREA B
E-243A	LIGHTING THIRD FLOOR - AREA A
E-243B	LIGHTING THIRD FLOOR - AREA B
E-244A	LIGHTING FOURTH FLOOR - AREA A
E-300	ELECTRICAL RISER - I.
E-470	ELECTRICAL - UNIT A
E-471	ELECTRICAL - UNIT A1
E-472	ELECTRICAL - UNIT B
E-473	ELECTRICAL - UNIT B1
E-474	ELECTRICAL - UNIT C
E-475	ELECTRICAL - UNIT D
E-476	ELECTRICAL - UNIT D1
E-477	ELECTRICAL - UNIT D2
E-478	ELECTRICAL - UNIT E
E-479	ELECTRICAL - UNIT E1
E-480	ELECTRICAL - UNIT E2
E-481	ELECTRICAL - UNIT F
E-482	ELECTRICAL - UNIT G
E-500	ELECTRICAL PANEL SCHEDULES
E-501	ELECTRICAL PANEL SCHEDULES
E-502	ELECTRICAL PANEL SCHEDULES
E-503	ELECTRICAL PANEL SCHEDULES
E-600	ELECTRICAL MECH CONNECTION SCHEDULE

[illegible]

**WATERFORD CAMPUS
IL BUILDING**
601 UNIVERSE BLVD. JUNO BEACH, FL 33408



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**ISSUED FOR
CONSTRUCTION**

Project No.: 2021009
Date: 12/01/2025

**ELECTRICAL
GENERAL - IL**

E-001

[illegible]

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LIGHTING

E-002

LIGHTING CONTROL LEGEND		
SYMBOL	DESCRIPTION	MTG (UNO)
\$ _R	REGULAR SINGLE-POLE, SINGLE-THROW TOGGLE SWITCH / ABOVE-COUNTER	46"/42"
\$	SMALLER AREAS AND ROOMS WHERE NO CEILING MOUNTED SENSOR IS USED: DUAL TECHNOLOGY DIMMING WALL SWITCH VACANCY SENSOR WATSTOPPER #DW-311-W	46"
\$	AREAS AND ROOMS WHERE A CEILING MOUNTED SENSOR IS USED: LOW VOLTAGE DIMMING WALL SWITCH WATSTOPPER #LMDM-101 (SINGLE, 3-WAY, AND 4-WAY APPLICATIONS)	46"
\$	AREAS THAT ARE TIMECLOCK CONTROLLED: LOW VOLTAGE DIMMING WALL SWITCH WATSTOPPER #LMDM-101 (SINGLE, 3-WAY, AND 4-WAY APPLICATIONS) WATSTOPPER #LMRC-210 DIMMING ROOM CONTROLLER (0-10V DIMMING/DAYLIGHT) WATSTOPPER #LMRC-220 DIMMING ROOM CONTROLLER (FORWARD PHASE DIMMING/DAYLIGHT)	
\$ _{OV}	LOW VOLTAGE OVERRIDE SWITCH WATSTOPPER #LVSW-101 (PROVIDE REALY FOR CONTROL)	46"
Ⓢ	CORRIDORS: NON-DIMMING LOADS: WATSTOPPER #WT-2250 ULTRASONIC (90' CORRIDOR COVERAGE) TWO WAY CEILING SENSOR WATSTOPPER #BZ-50 POWER PACK DIMMING LOADS: WATSTOPPER #LMUC-100 ULTRASONIC (59' CORRIDOR COVERAGE) TWO WAY CEILING SENSOR WATSTOPPER #LMRC-111 DIMMING ROOM CONTROLLER	
Ⓢ	ALL OTHER LOCATIONS: NON-DIMMING LOADS: WATSTOPPER #DT-300 DUAL TECH (16' RADIUS, 36"x36" COVERAGE) TWO WAY CEILING SENSOR WATSTOPPER #BZ-200 POWER PACK (LIGHTING AND PLUG LOADS) DIMMING LOADS: WATSTOPPER #LMUC-100 DUAL TECH (16' RADIUS, 32"x32" COVERAGE) TWO WAY CEILING SENSOR WATSTOPPER #LMRC-210 DIMMING ROOM CONTROLLER (0-10V DIMMING/DAYLIGHT) WATSTOPPER #LMRC-220 DIMMING ROOM CONTROLLER (FORWARD PHASE DIMMING/DAYLIGHT)	
Ⓢ	WATSTOPPER #MLS-500 CEILING PHOTO SENSOR	
GENERAL NOTES:		
- ABOVE SYSTEM IS BASIS OF DESIGN. CONTRACTOR TO SUBMIT AN EQUIVALENT SYSTEM THAT MEETS THE CRITERIA OF THE LIGHTING CONTROL NARRATIVE. - COORDINATE QUANTITY AND LOCATION OF SENSORS, SWITCHPACKS, AND/OR ROOM CONTROLLERS WITH MANUFACTURER'S FACTORY REPRESENTATIVE. - COORDINATE QUANTITY AND LOCATION OF ROOM CONTROLLERS AND SWITCHPACKS WITH MANUFACTURER'S FACTORY REPRESENTATIVE. - PROVIDE SUBMITTAL LAYOUT DRAWINGS FROM SUCCESSFUL BIDDER. - OCCUPANCY SENSOR LOCATIONS SHOWN ON THE LIGHTING DRAWINGS. - QUANTITIES AND LOCATIONS OF SWITCHPACKS AND/OR ROOM CONTROLLERS SHALL BE DETERMINED BY THE CONTRACTOR FOR A COMPLETE AND OPERABLE SYSTEM. - ALL NEW LED FIXTURES SHALL BE PROVIDED WITH 0-10V DIMMING. CONTROL DEVICES SHALL BE COMPATIBLE.		
OCCUPANCY SENSOR NOTES:		
- OCCUPANCY SENSOR CONTROLS SHALL BE MANUAL OR (VACANCY MODE) OR CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING ON TO NOT MORE THAN 50% OUTPUT, UNLESS NOTED OTHERWISE. - PROVIDE ROOM CONTROLLER(S) CAPABLE OF RECEIVING INPUT FROM SWITCH AND OCCUPANCY SENSOR. - ALL SENSORS SHOULD BE SET AT THE CODE-MAXIMUM SETTING OF 20 MINUTES. DISABLE AUTO ADAPTING TIME DELAY, WHERE APPLICABLE. - ALL ENCLOSED OFFICES AND ROOMS SHALL HAVE OCCUPANCY SENSOR COVERAGE. - ALL SENSOR WALL SWITCHES SHALL FUNCTION AS VACANCY SENSORS (MANUAL-ON, AUTO-OFF). - DEVICES TO BE SHIPPED FROM THE FACTORY WITH THE CORRECT TIME DELAY (20 MINUTES) AND VACANCY MODE SETTINGS.		
DAYLIGHTING CONTROL NOTES:		
- PROVIDE A ROOM CONTROLLER CAPABLE OF ACCEPTING INPUT FROM SWITCH, OCCUPANCY SENSORS AND PHOTOSENSOR. - LIGHTS SHALL TURN ON WHEN SWITCH IS PRESSED. LIGHTS SHALL SHUT OFF VIA VACANCY SENSOR CONTROL. PHOTOSENSOR SHALL PROVIDE AUTOMATIC DIMMING BASED ON AMBIENT LIGHT IN THE SPACE. - PHOTOSENSOR SHALL CONTROL FIXTURES INDICATED BY LOWERCASE LETTER ON DRAWINGS. - DURING LOSS OF NORMAL POWER, EMERGENCY FIXTURES SERVED BY GENERATOR SHALL BE AT FULL BRIGHTNESS.		
COMMISSIONING NOTE		
CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING LIGHTING SYSTEM FUNCTIONAL TESTING IN ACCORDANCE WITH THE REQUIREMENTS OF IECC CODE 3 (ASHRAE 9-4.3). AUTOMATIC LIGHT REDUCTIONS CONTROLS (VIA OCCUPANCY SENSORS AND/OR TIME-SWITCH CONTROL) AND DAYLIGHT RESPONSIVE CONTROL SHALL BE TESTED AS REQUIRED. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO CERTIFY THAT THE INSTALLED LIGHTING CONTROLS MEET THE REQUIREMENTS OF IECC CODE 3 (ASHRAE 9-4.3).		

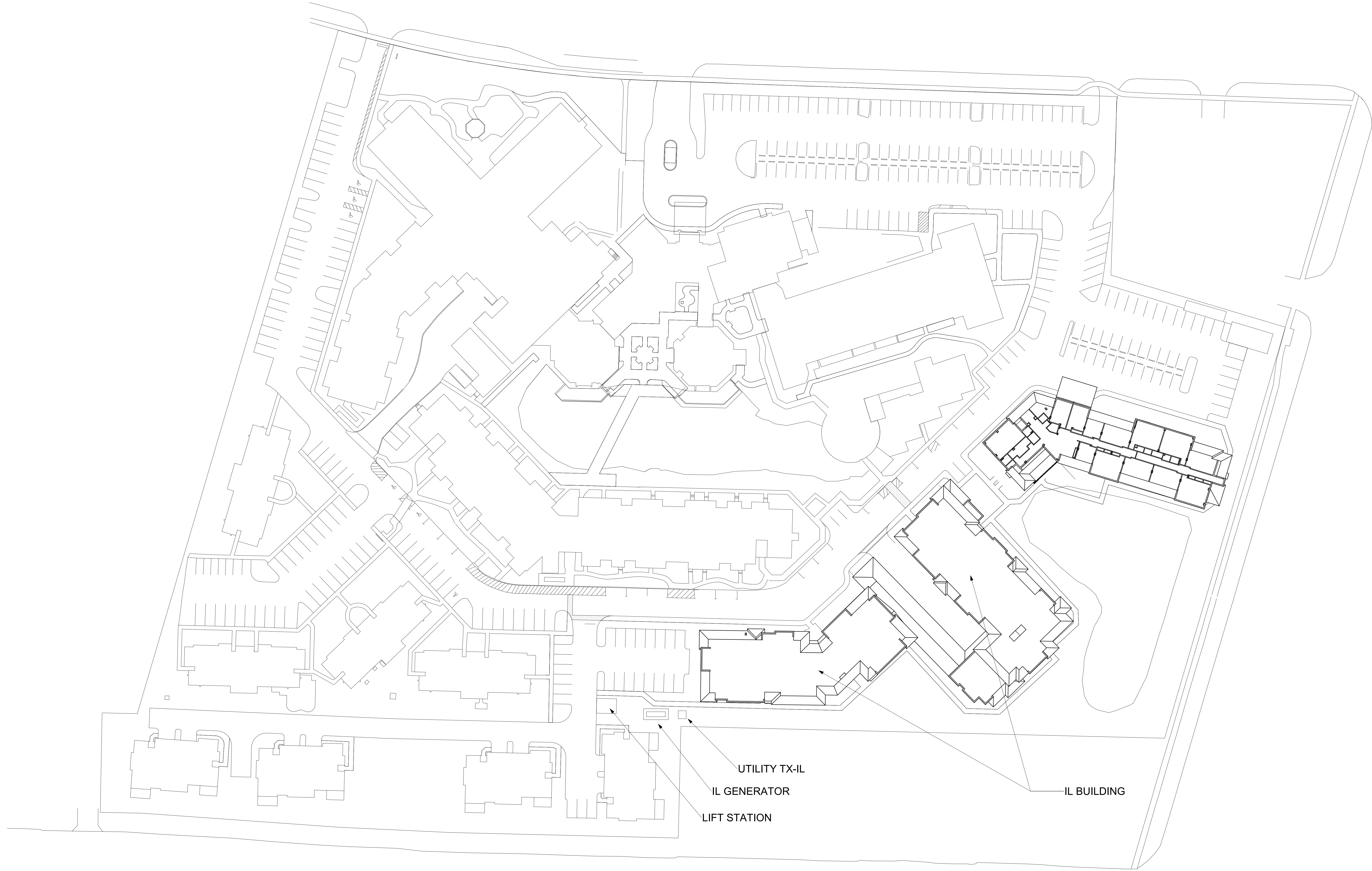


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1 ELECTRICAL SITE PLAN
E-100 1" = 40'-0"



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DATE		DESCRIPTION

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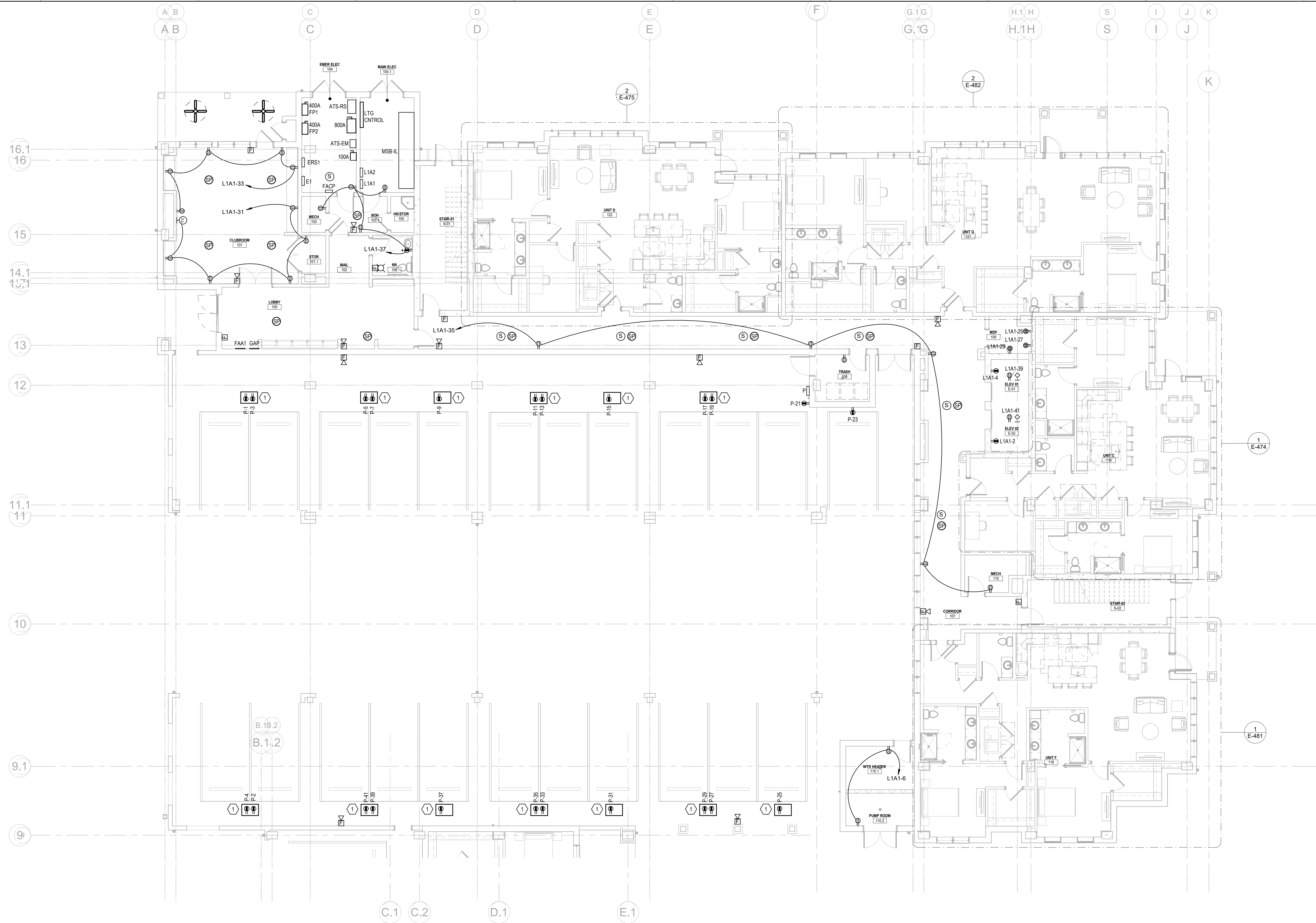
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Date: 12/01/2025

**ELECTRICAL
SITE PLAN**

E-100

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1 ELECTRICAL FIRST FLOOR - AREA A
E-141A
1/8" = 1'-0"

GENERAL NOTES

- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH NAMEPLATE DATA OF ACTUAL EQUIPMENT PROVIDED.
- SPECIFIC REQUIREMENTS REGARDING MATERIALS, WORKMANSHIP AND THE WORK TO BE DONE ARE COVERED BY THE SPECIFICATIONS WHICH COMPLEMENT THE PLANS. WORK CALLED FOR BY THE SPECIFICATIONS OR THE PLAN IS REQUIRED THE SAME AS IF REQUIRED BY BOTH. WHERE A CONFLICT EXISTS BETWEEN THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS OF THE TWO SHALL APPLY UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
- PROVIDE UL LISTED JUNCTION BOXES FOR POWER AND COMMUNICATION OUTLETS WITHIN FIRE RATED ASSEMBLIES.
- ALL EXTERIOR RECEPTACLES AND FIRE ALARM DEVICES SHALL BE WEATHER-PROOF TYPE. ALL EXTERIOR RECEPTACLES TO BE GFCI.
- CIRCUIT NUMBERS WITH ASTERISK (XXX-XX) INDICATE CIRCUIT TO BE ON GFCI CIRCUIT BREAKER.
- REFER TO E-400 SERIES SHEETS FOR INDEPENDENT LIVING UNIT PLANS.
- PROVIDE AFCI BREAKERS FOR ALL 120V, SINGLE-PHASE, 15A AND 20A CIRCUITS SERVING UNITS.

KEY NOTES

- PROVIDE LEGRAND #XCSLF-2G-R-R (OR BLANK) - XX OUTDOOR CHARGING STATION.

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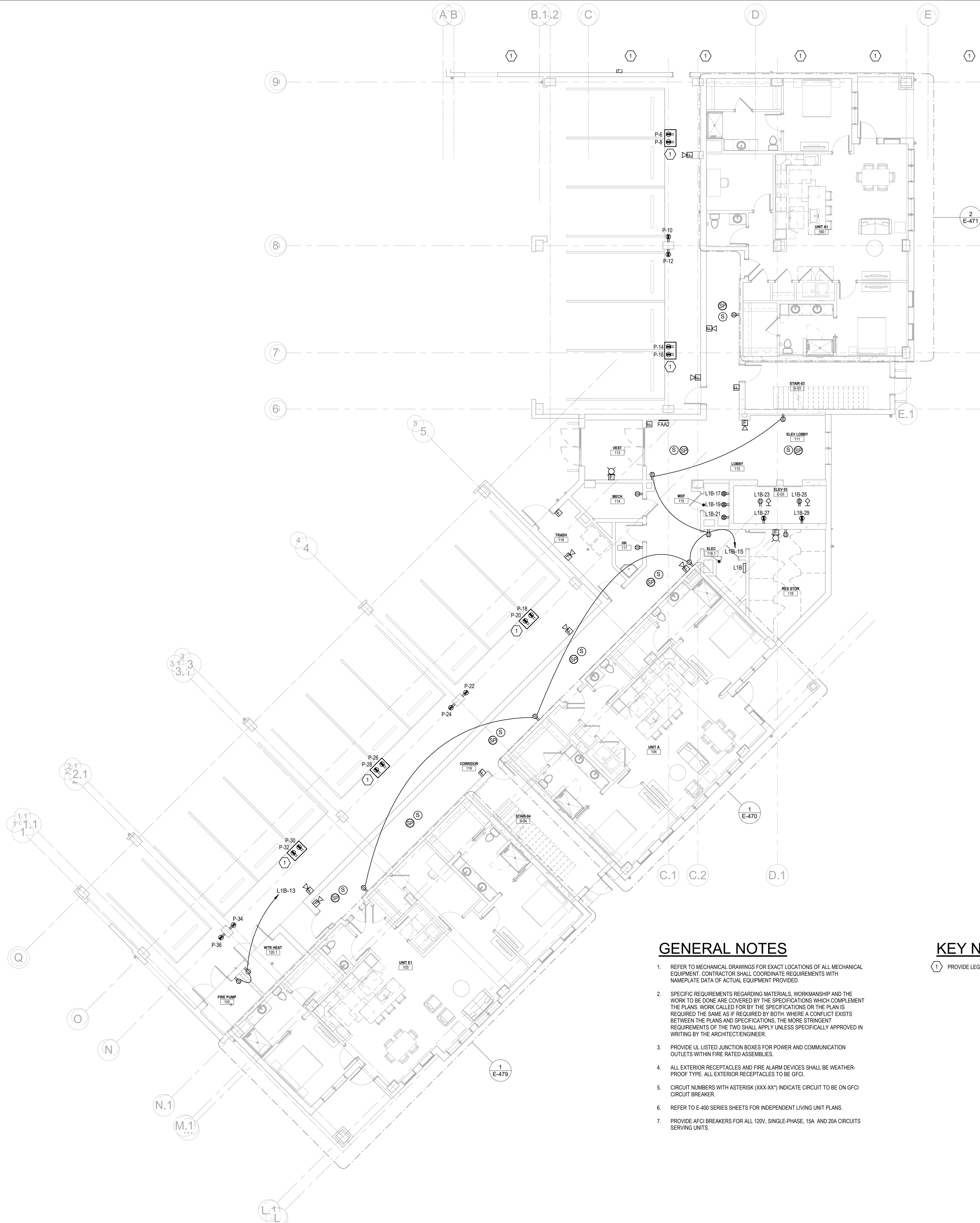
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**ELECTRICAL
FIRST FLOOR -
AREA A**

E-141A

Autodesk Docs://MCH - Stage 2 - MC_AL_LJ2024-03276 - MEP - ILvt

1 ELECTRICAL FIRST FLOOR - AREA B
E-141B 1/8" = 1'-0"



GENERAL NOTES

- REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATIONS OF ALL MECHANICAL EQUIPMENT. CONTRACTOR SHALL COORDINATE REQUIREMENTS WITH NAMEPLATE DATA OF ACTUAL EQUIPMENT PROVIDED.
- SPECIFIC REQUIREMENTS REGARDING MATERIALS, WORKMANSHIP AND THE WORK TO BE DONE ARE COVERED BY THE SPECIFICATIONS WHICH COMPLEMENT THE PLANS. WORK CALLED FOR BY THE SPECIFICATIONS OR THE PLANS IS REQUIRED THE SAME AS IF REQUIRED BY BOTH. WHERE A CONFLICT EXISTS BETWEEN THE PLANS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS OF THE TWO SHALL APPLY UNLESS SPECIFICALLY APPROVED IN WRITING BY THE ARCHITECT/ENGINEER.
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KEY NOTES

- PROVIDE LEGRAND #XCSLF-2G-R-R (OR BLANK) - XX OUTDOOR CHARGING STATION.

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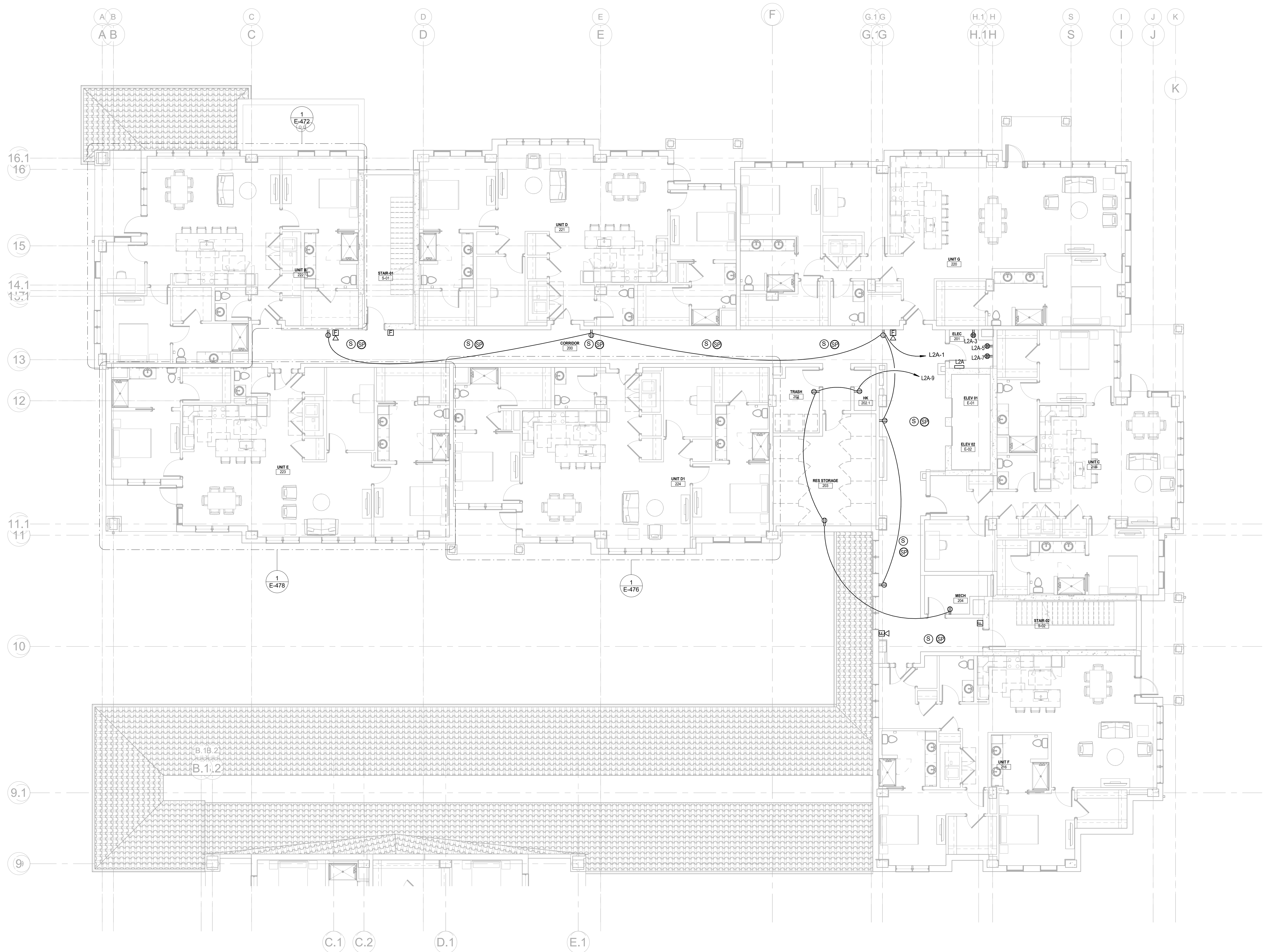
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**ELECTRICAL
FIRST FLOOR -
AREA B**

E-141B

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1 ELECTRICAL SECOND FLOOR - AREA A
E-142A 1/8" = 1'-0"

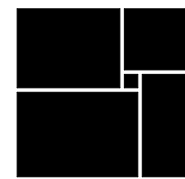
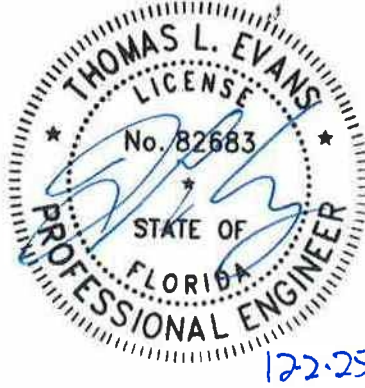
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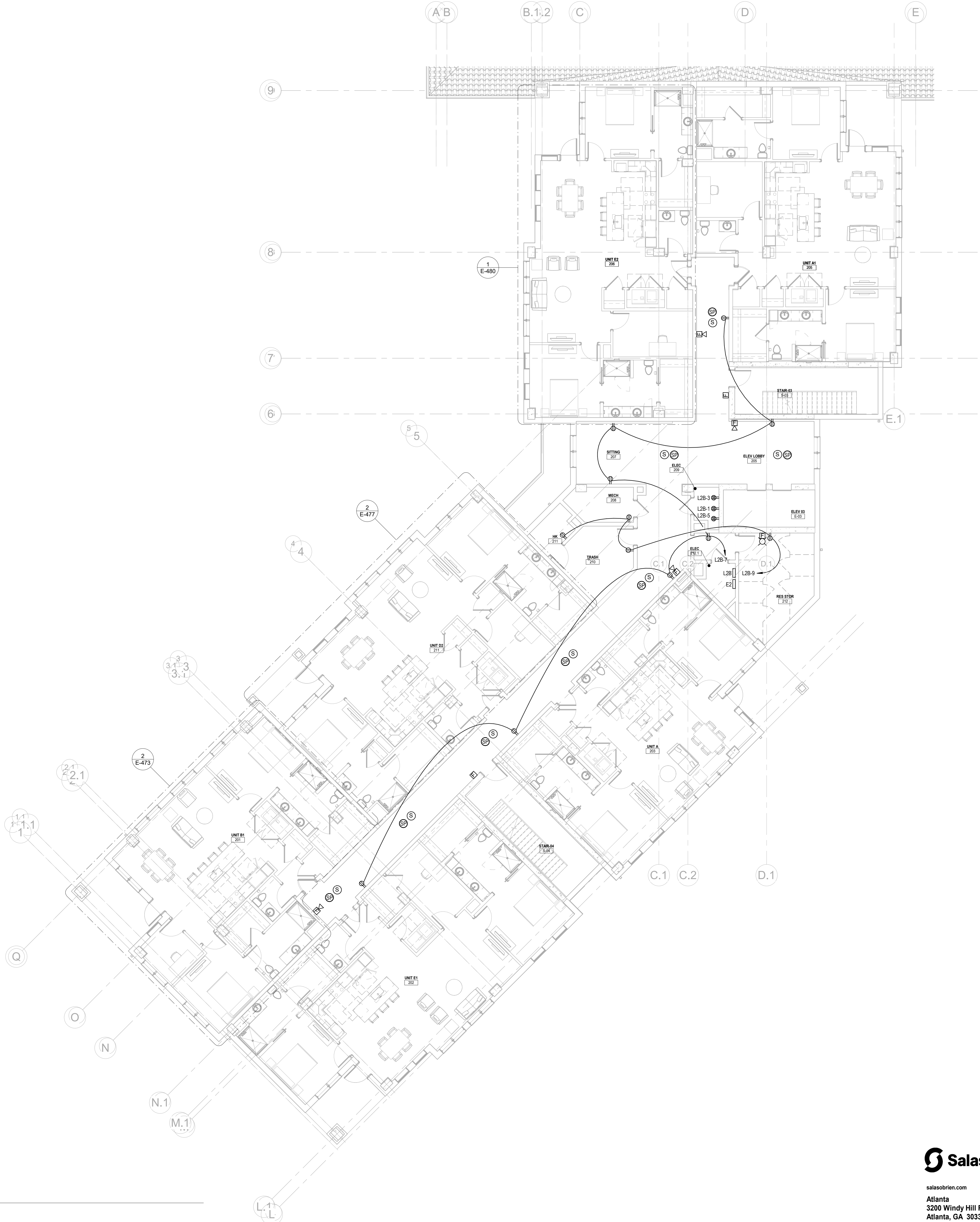
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**ELECTRICAL
SECOND
FLOOR - AREA
A**

E-142A

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1 ELECTRICAL SECOND FLOOR - AREA B
E-142B 1/8" = 1'-0"



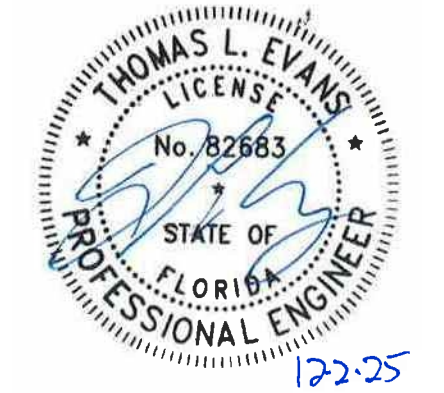
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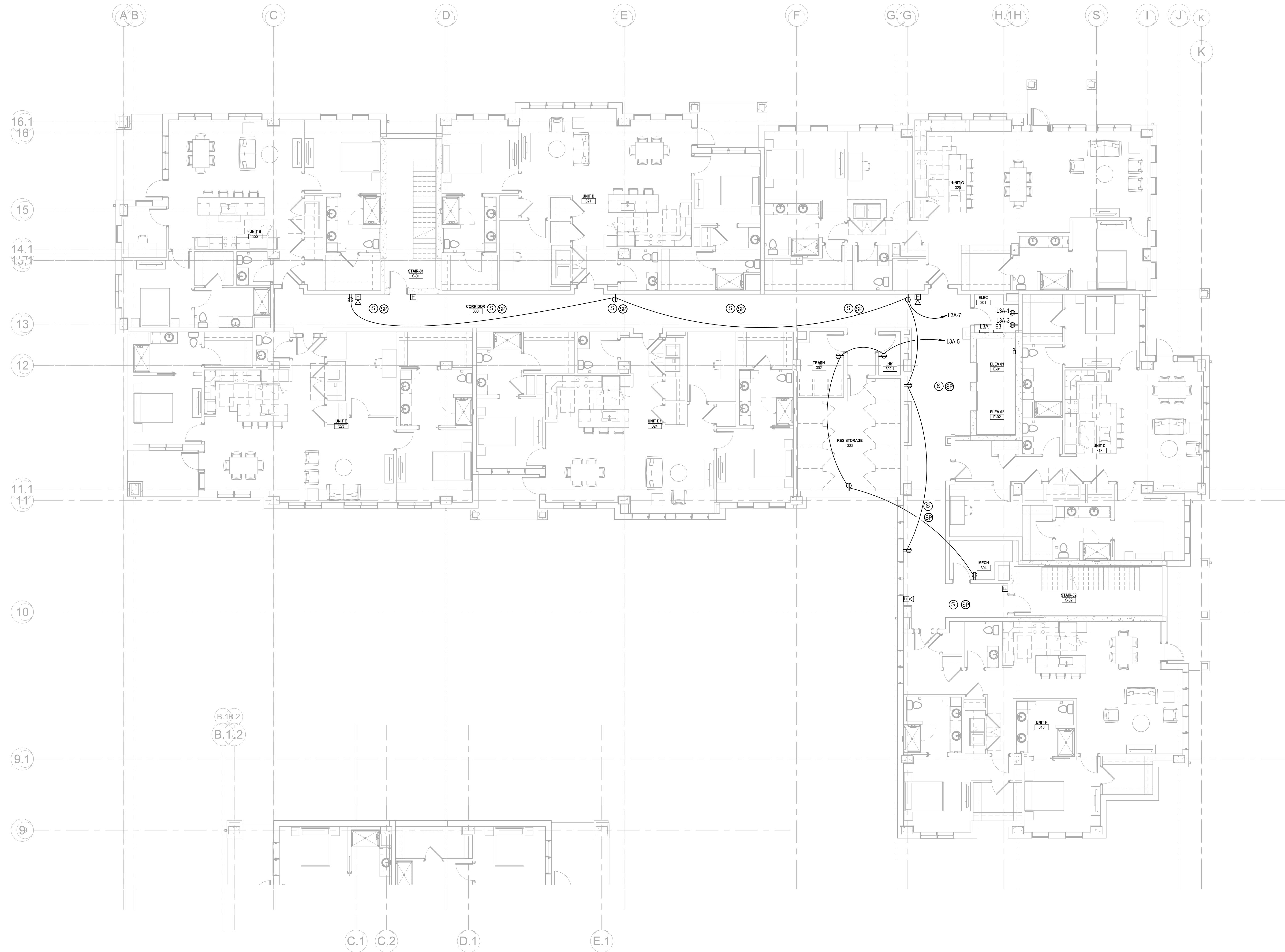
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ELECTRICAL
SECOND
FLOOR - AREA
B

E-142B

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1 ELECTRICAL THIRD FLOOR - AREA A
E-143A 1/8" = 1'-0"

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**ELECTRICAL
THIRD FLOOR
- AREA A**

E-143A

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1 ELECTRICAL THIRD FLOOR - AREA B
E-143B 1/8" = 1'-0"

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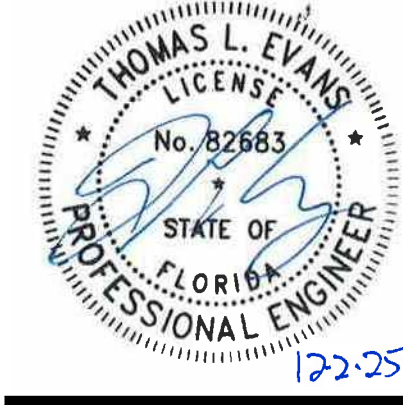
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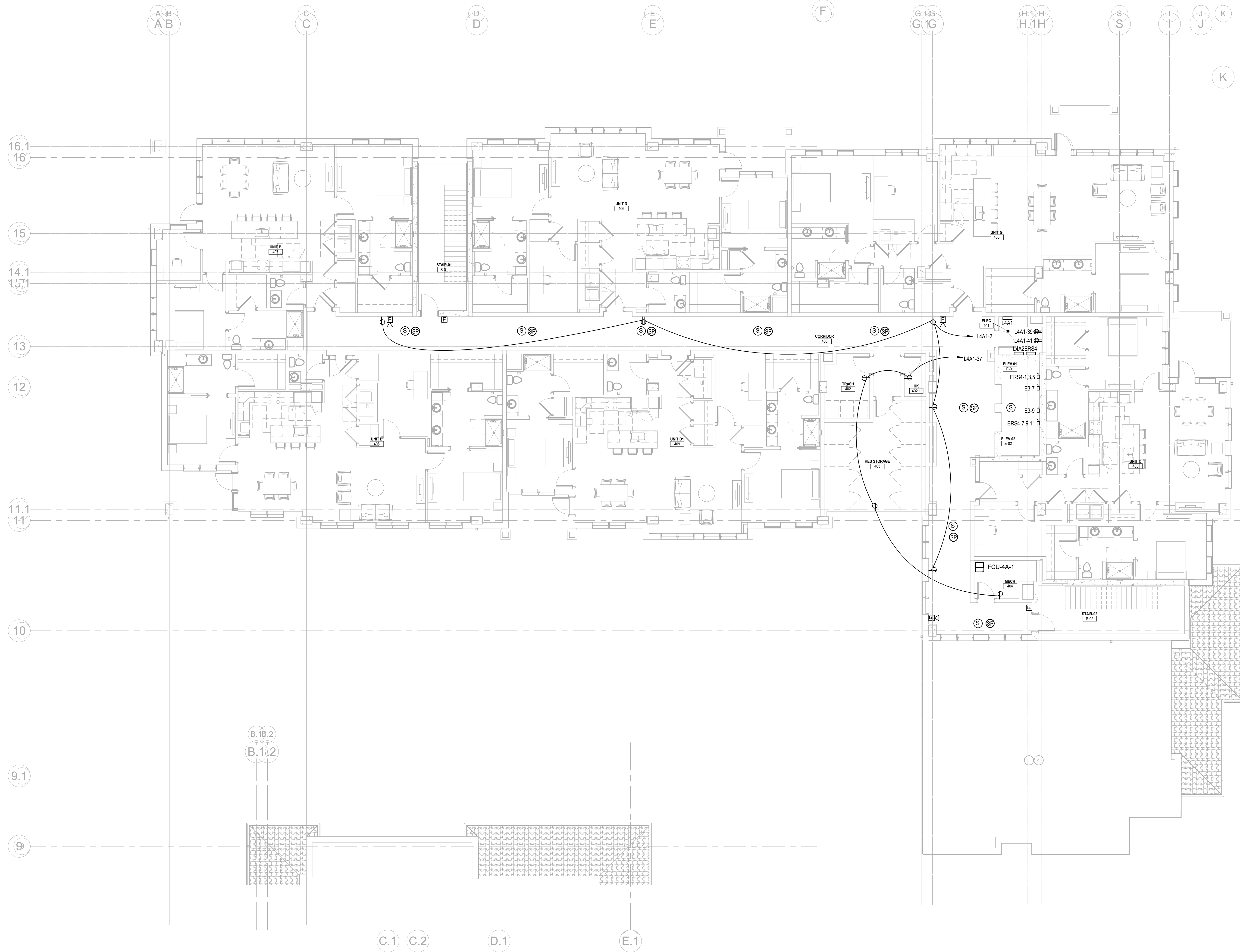
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**ELECTRICAL
THIRD FLOOR
- AREA B**

E-143B

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1 ELECTRICAL FOURTH FLOOR - AREA A
E-144A 1/8" = 1'-0"

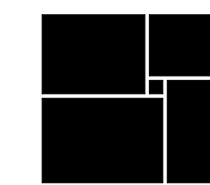
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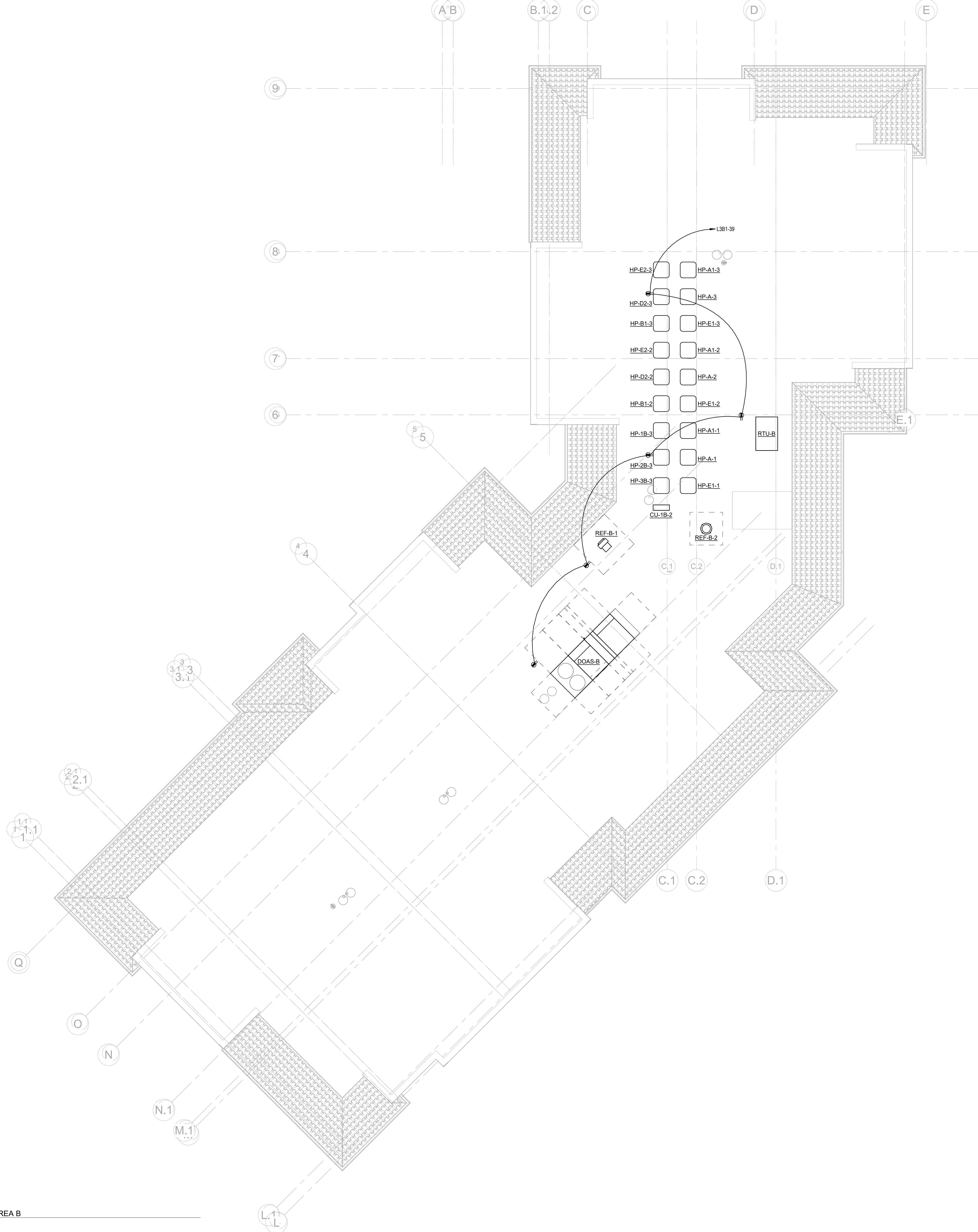
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**ELECTRICAL
FOURTH
FLOOR - AREA
A**

E-144A

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1 ELECTRICAL FOURTH FLOOR - AREA B
E-144B 1/8" = 1'-0"



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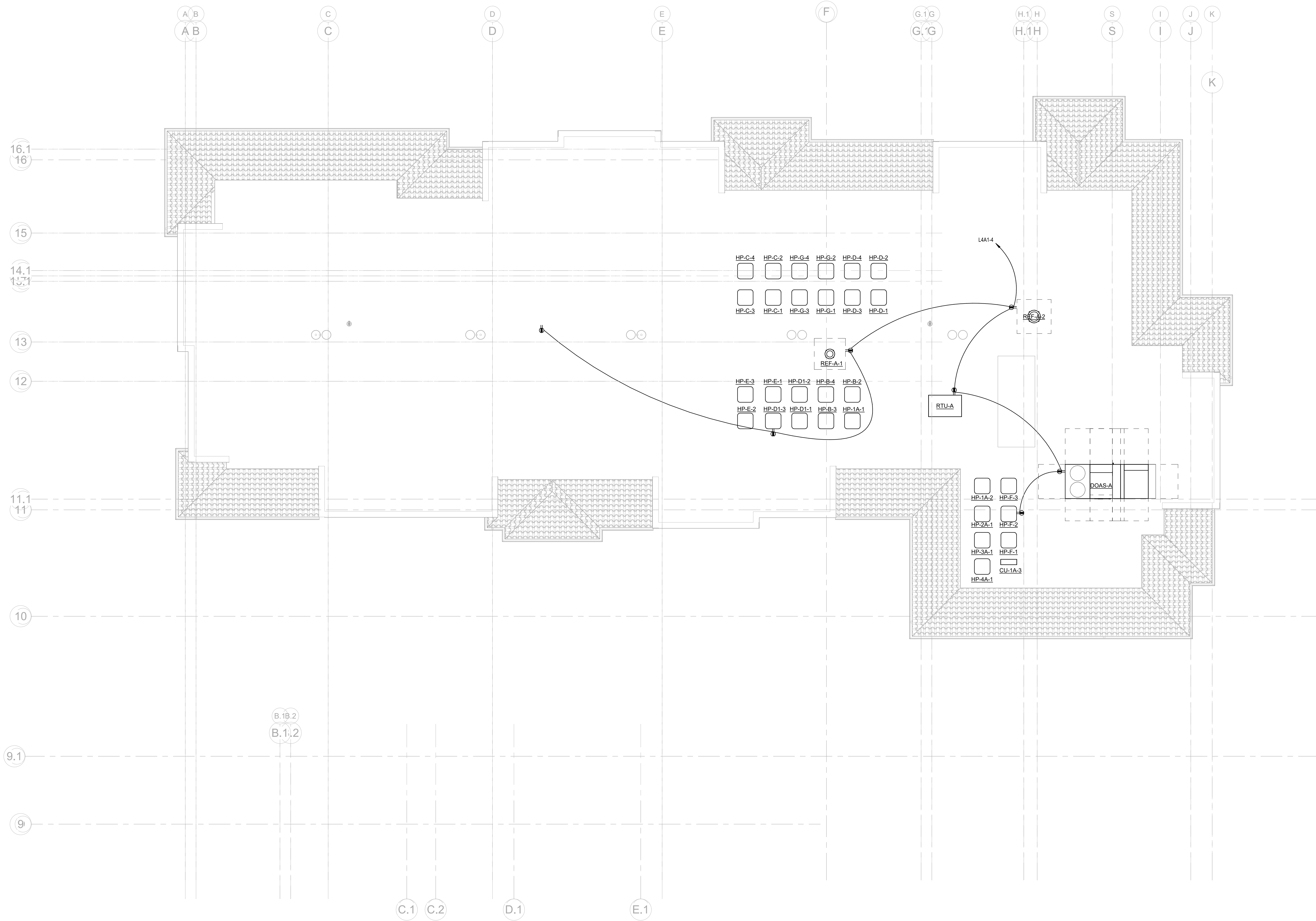
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ELECTRICAL
ROOF - AREA B

E-144B

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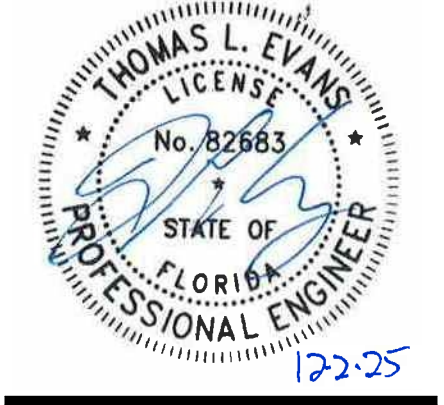
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**ELECTRICAL
ROOF - AREA
A**

E-145A

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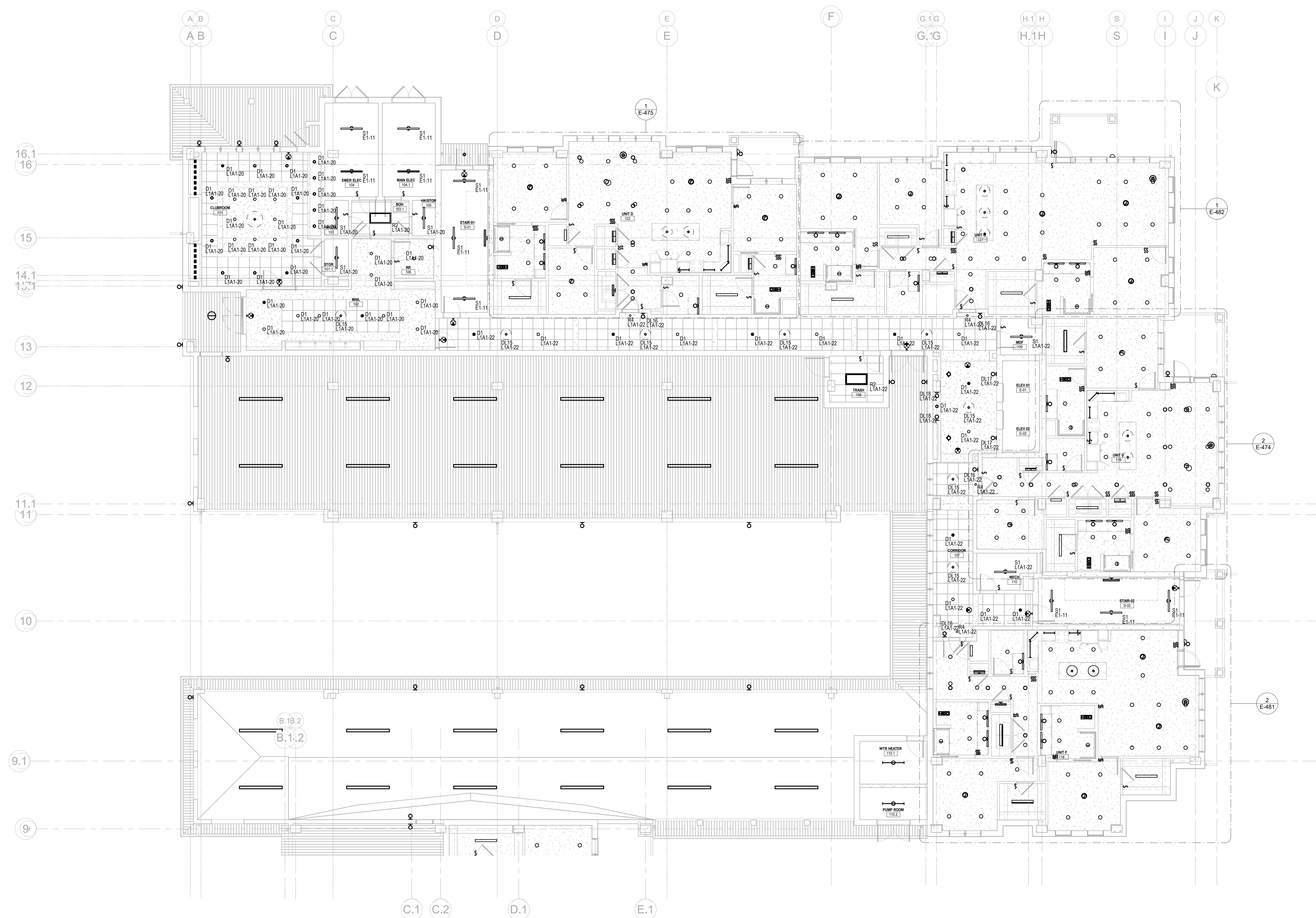
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**LIGHTING
FIRST FLOOR -
AREA A**

E-241A



1 LIGHTING FIRST FLOOR - AREA A
E-241A 1/8" = 1'-0"



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**LIGHTING
FIRST FLOOR -
AREA B**

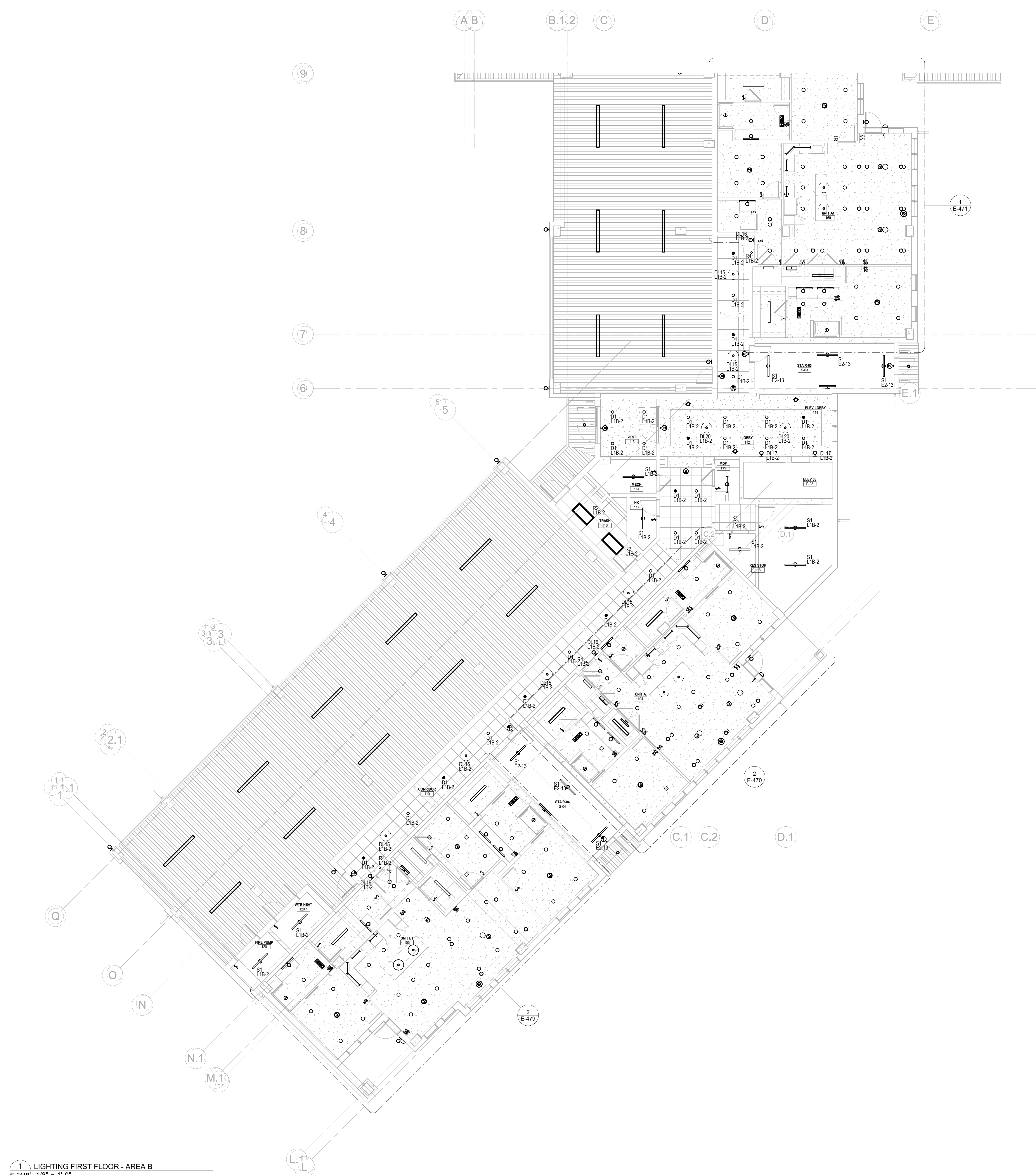
E-241B



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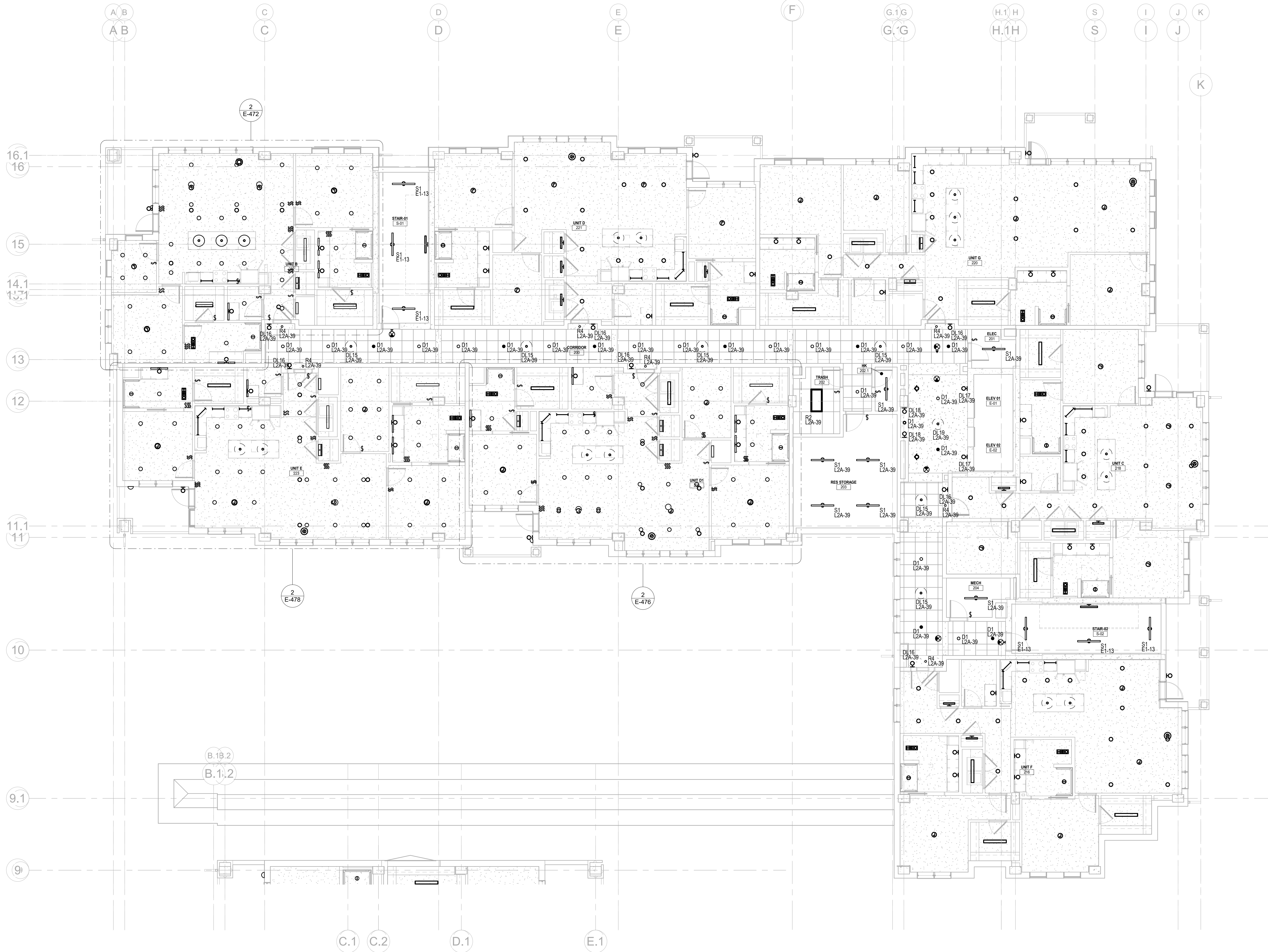
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1 LIGHTING SECOND FLOOR - AREA A
E-242A 1/8" = 1'-0"

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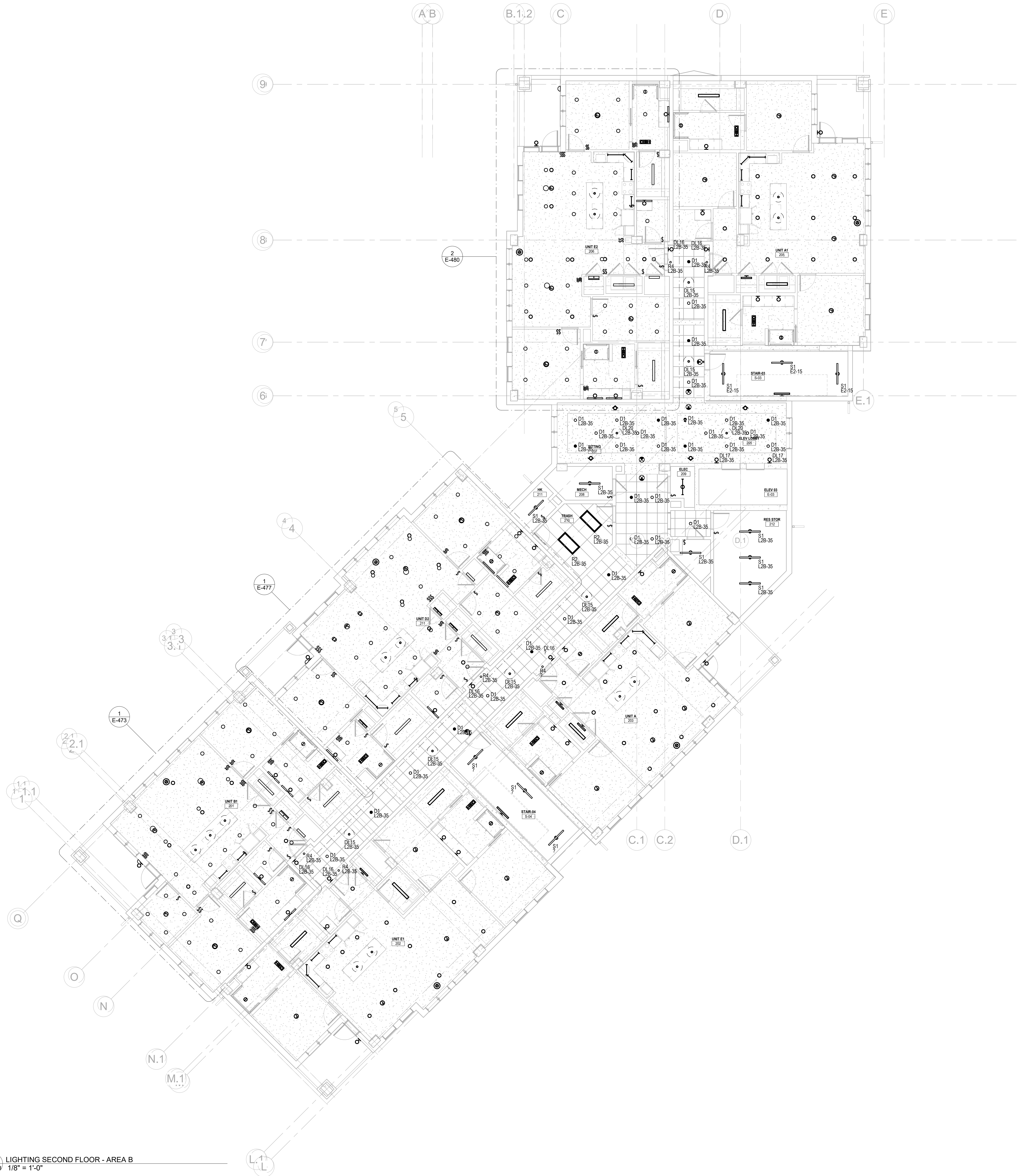
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**LIGHTING
SECOND
FLOOR - AREA
A**

E-242A

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1 LIGHTING SECOND FLOOR - AREA B
E-242B 1/8" = 1'-0"



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**LIGHTING
SECOND
FLOOR - AREA
B**

E-242B

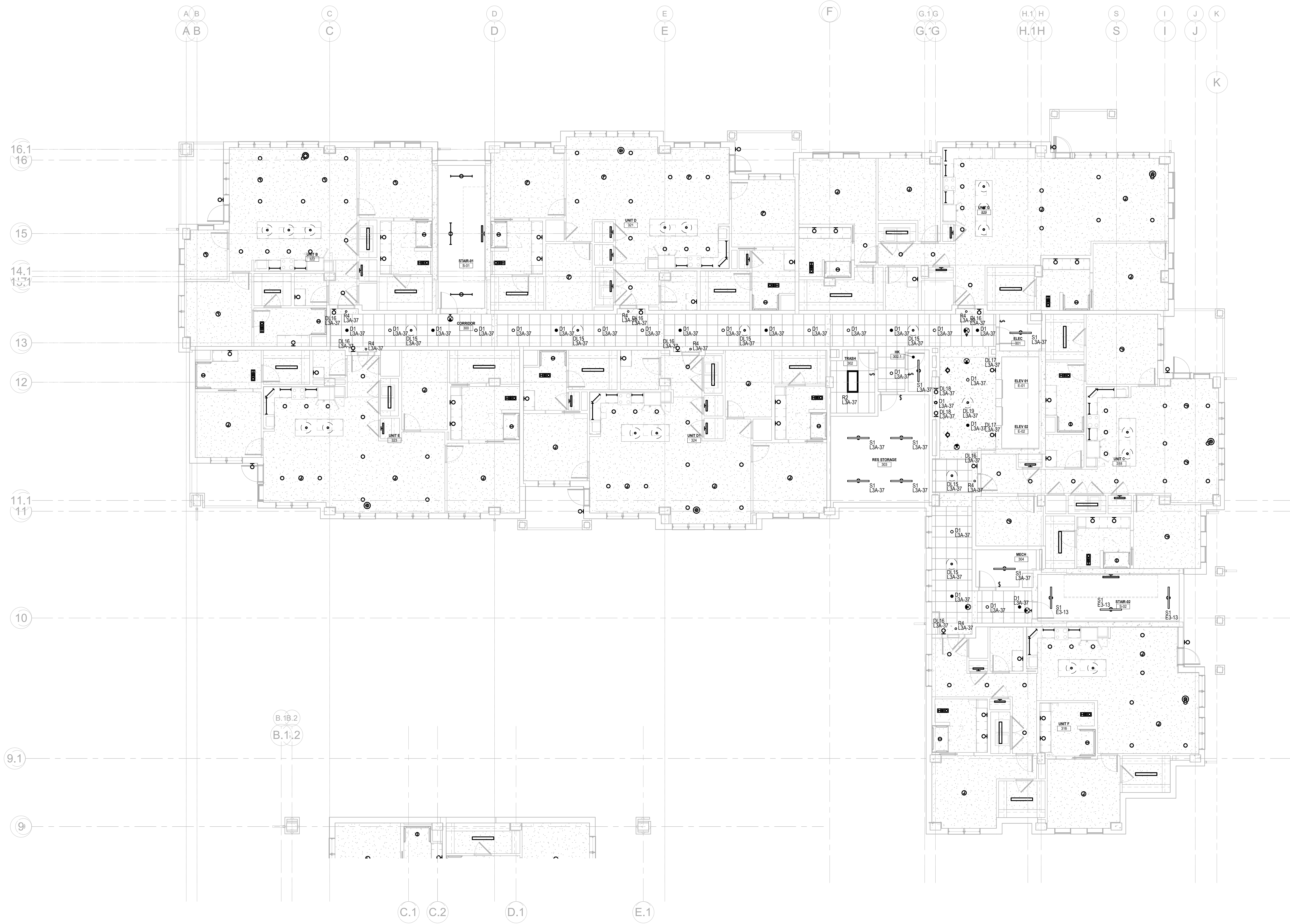


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1 LIGHTING THIRD FLOOR - AREA A
E-243A 1/8" = 1'-0"

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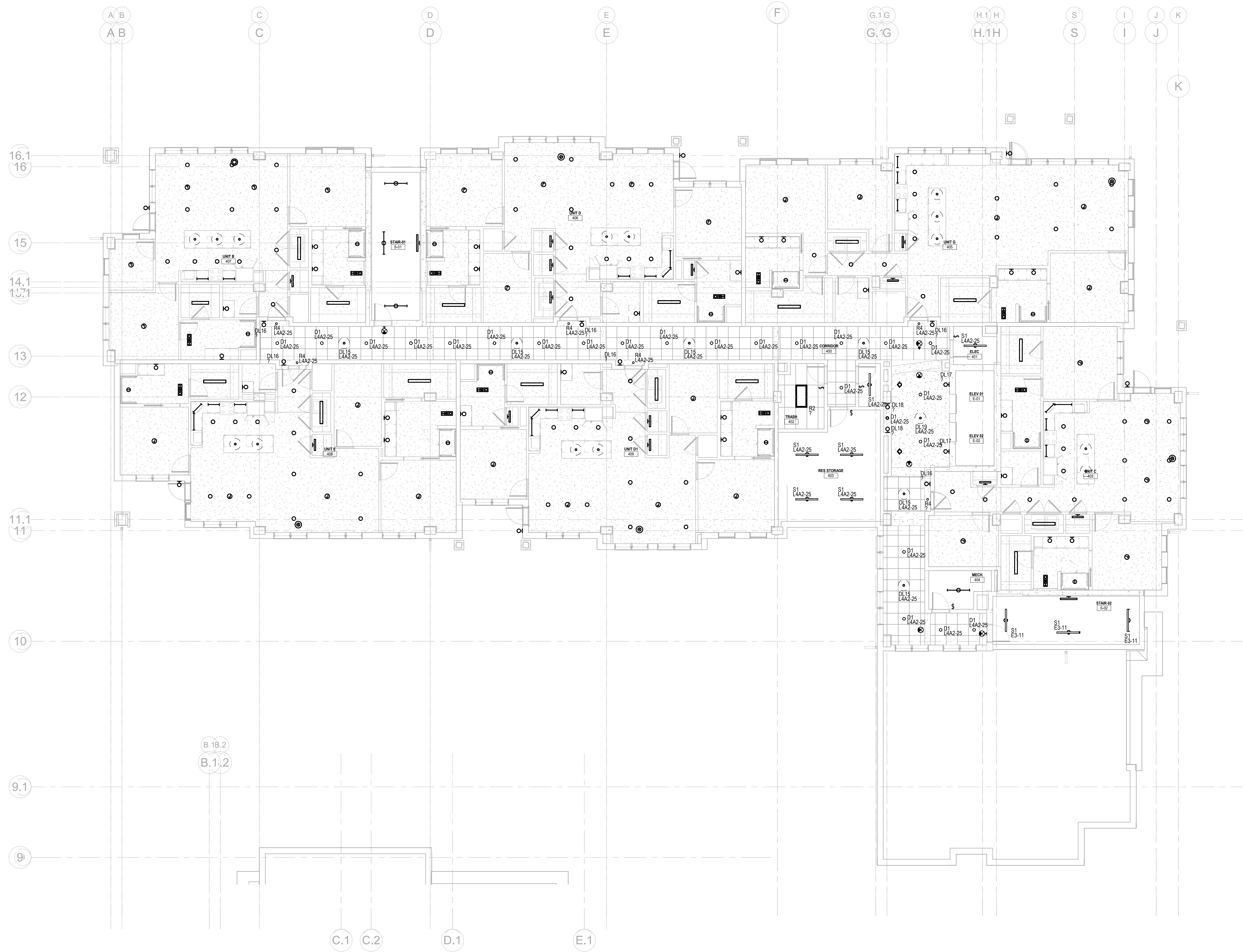
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**LIGHTING
THIRD FLOOR
- AREA A**

E-243A

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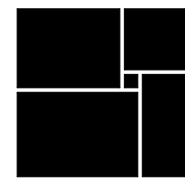
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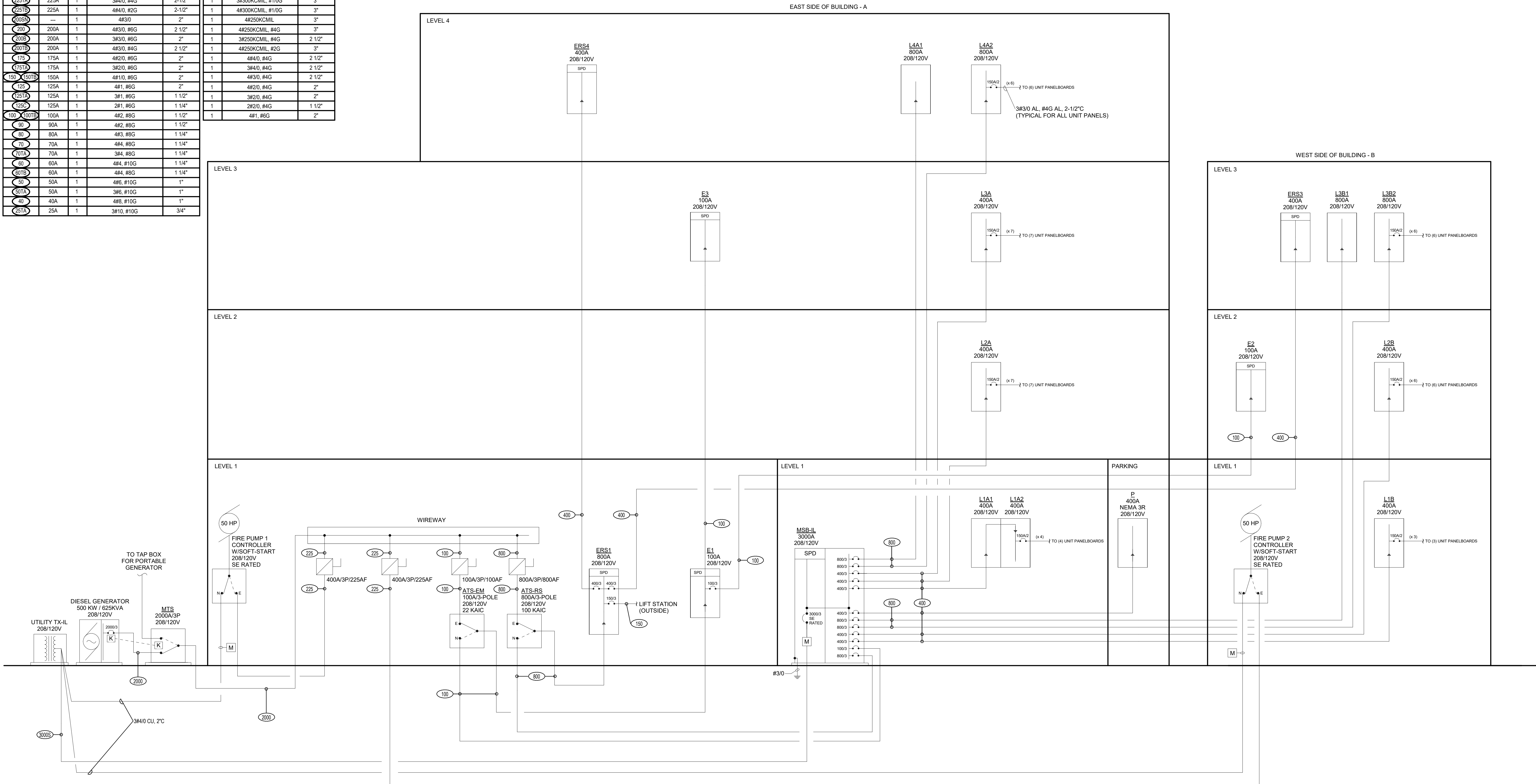
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**LIGHTING
FOURTH
FLOOR - AREA
A**

E-244A

ALL UNDERGROUND CONDUIT SHALL BE PVC 40 UNLESS NOTED OTHERWISE.

FEEDER SCHEDULE - COPPER				FEEDER SCHEDULE - ALUMINUM		
SYMBOL	CIRCUIT BREAKER	NO. SETS	WIRE & GROUND	CONDUIT	NO. SETS	WIRE & GROUND
(C00S)	400A	11	4#500KCML	4"	12	4#600KCML
(C00S)	300A	8	4#500KCML	3-1/2"	9	4#600KCML
(C00S)	300A	8	4#500KCML, #400KCML G	3-1/2"	9	4#600KCML, #600KCML G
(C00S)	250A	7	4#500KCML	3-1/2"	8	4#500KCML
(C00S)	250A	7	4#500KCML, #350KCML G	3-1/2"	8	4#600KCML, #600KCML G
(C00S)	200A	6	4#400KCML	3-1/2"	7	4#500KCML
(C00S)	200A	6	4#400KCML, #250KCML G	3-1/2"	7	4#500KCML, #400KCML G
(C00S)	160A	5	4#400KCML	3-1/2"	6	4#400KCML
(C00S)	160A	5	4#400KCML, #350KCML G	3-1/2"	6	4#400KCML, #350KCML G
(C00S)	120A	4	4#350KCML	3"	4	4#500KCML
(C00S)	120A	4	4#350KCML, #300G	3"	4	4#500KCML, #250KCML G
(C00S)	100A	3	4#400KCML	3-1/2"	3	4#600KCML
(C00S)	100A	3	4#400KCML, #200G	3-1/2"	3	4#600KCML, #400G
(C00S)	100A	3	4#400KCML, #300G	3-1/2"	3	4#600KCML, #250KCML G
(C00S)	800A	3	4#300KCML, #100G	3"	3	4#400KCML, #300G
(C00S)	800A	3	4#300KCML, #200G	3"	3	4#400KCML, #400G
(C00S)	700A	2	4#500KCML, #100G	3-1/2"	3	4#350KCML, #300G
(C00S)	600A	2	4#350KCML	3"	2	4#500KCML
(C00S)	---	2	4#350KCML	3"	2	4#500KCML
(C00S)	600A	2	4#350KCML, #100G	3"	2	4#500KCML, #200G
(C00S)	500A	2	4#250KCML, #200G	3"	2	4#350KCML, #100G
(C00S)	500A	2	4#250KCML, #100G	3"	2	4#350KCML, #300G
(C00S)	450A	2	4#400, 2#G	2-1/2"	2	4#300KCML, #100G
(C00S)	450A	2	3#400, 2#G	2-1/2"	2	3#300KCML, #100G
(C00S)	400A	2	4#300, #3G	2 1/2"	2	4#250KCML, #100G
(C00S)	400A	2	4#300, #2G	2 1/2"	2	4#250KCML, #100G
(C00S)	350A	1	4#500, #3G	3 1/2"	2	4#400, #1G
(C00S)	350A	1	3#500, #3G	3 1/2"	2	3#400, #1G
(C00S)	300A	1	4#350	3"	1	4#500KCML
(C00S)	300A	1	4#350, #4G	3"	1	4#500KCML, #200G
(C00S)	---	1	4#350, #4G	3"	1	4#500KCML
(C00S)	250A	1	4#250, #4G	3"	1	4#350KCML, #200G
(C00S)	225A	1	4#400, #4G	2-1/2"	1	4#300KCML, #200G
(C00S)	225A	1	3#400, #4G	2-1/2"	1	3#300KCML, #100G
(C00S)	225A	1	4#400, #2G	2-1/2"	1	4#300KCML, #100G
(C00S)	---	1	4#300	2"	1	4#250KCML
(C00S)	200A	1	4#300, #6G	2 1/2"	1	4#250KCML, #400G
(C00S)	200A	1	3#300, #6G	2"	1	3#250KCML, #400G
(C00S)	200A	1	4#300, #4G	2 1/2"	1	4#250KCML, #200G
(C00S)	175A	1	4#200, #6G	2"	1	4#400, #4G
(C00S)	175A	1	3#200, #6G	2"	1	3#400, #4G
(C00S)	150A	1	4#100, #6G	2"	1	4#300, #4G
(C00S)	125A	1	4#80, #6G	2"	1	4#200, #4G
(C00S)	125A	1	3#80, #6G	1 1/2"	1	3#200, #4G
(C00S)	125A	1	2#80, #6G	1 1/4"	1	2#200, #4G
(C00S)	100A	1	4#60, #6G	1 1/2"	1	4#100, #6G
(C00S)	90A	1	4#60, #6G	1 1/2"		
(C00S)	80A	1	4#60, #6G	1 1/4"		
(C00S)	70A	1	4#60, #6G	1 1/4"		
(C00S)	70A	1	3#60, #6G	1 1/4"		
(C00S)	60A	1	4#60, #10G	1 1/4"		
(C00S)	60A	1	4#60, #6G	1 1/4"		
(C00S)	50A	1	4#60, #10G	1"		
(C00S)	50A	1	3#60, #10G	1"		
(C00S)	40A	1	4#60, #10G	1"		
(C00S)	25A	1	3#10, #10G	3/4"		



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ELECTRICAL
RISER - IL

E-300

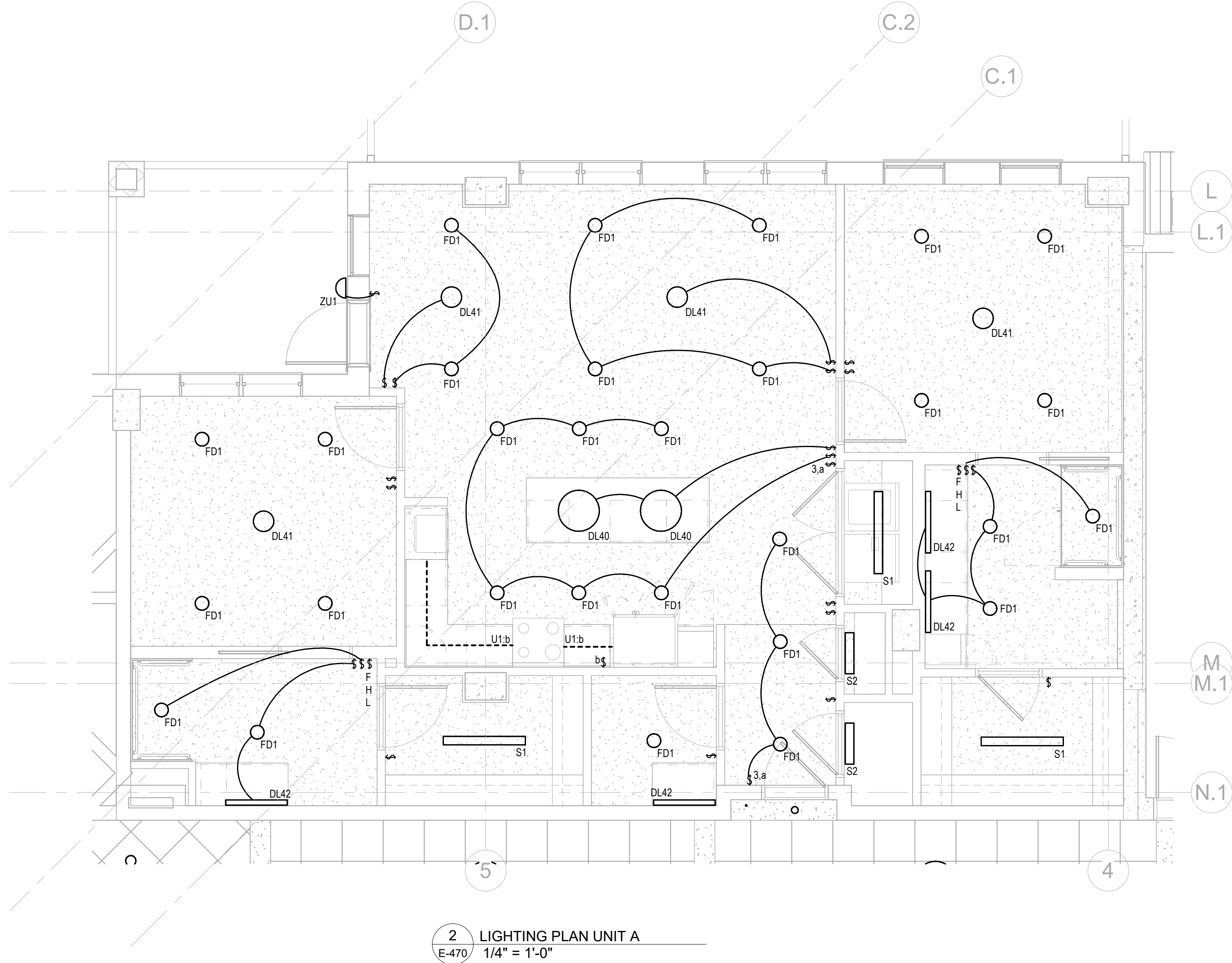


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Unit Load Center: ILP (Independent Living Panel)

Location:
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 120/208 Wye
Phases: 1
Wires: 3

A.I.C. Rating: 22 KAIC
Mains Type: MLO
Mains Rating: 150 A
MCB Rating: N/A
FEED THRU LUGS: NO

CKT	Circuit Description	Trip	Poles	A	B	Poles	Trip	Circuit Description	CKT
1	FCU-X**	45 A**	2	3494	3200		2	40 A RANGE	2
3	SPARE								4
5	BATHROOM RECEP	20 A	1	0	1500		1	20 A REFRIGERATOR [GFCI/AFCI]	6
7	BATHROOM RECEP	20 A	1		1500	1500	1	20 A DISHWASHER [GFCI/AFCI]	8
9	BATHROOM RECEP ***	20 A	1	1500	2500				10
11	BEDROOM RECEP	20 A	1		1620	2500	2	30 A DRYER	12
13	BEDROOM RECEP***	20 A	1	1620	1500		1	20 A WASHER [GFCI/AFCI]	14
15	LIVING ROOM	20 A	1		1620	500	1	20 A DISPOSER	16
17	DINING / KITCHEN	20 A	1	1500	1500		1	20 A KITCHEN RECEP	18
19	BALCONY RECEP	20 A	1		360	1500	1	20 A KITCHEN RECEP	20
21	BATHROOM FAN/HEATER/LIGHT COMBO UNIT	20 A	1	1600	800		1	20 A MICROWAVE	22
23	BATHROOM FAN/HEATER/LIGHT COMBO UNIT***	20 A	1		1600	800	1	20 A EXHAUST HOOD	24
25	SPARE	20 A	1	0	0		1	20 A SPARE	26
27	HP-X*	20 A	1		1414	0	1	20 A SPARE	28
29	HP-X*	25 A*	2	1414	0		1	20 A SPARE	30

Notes:

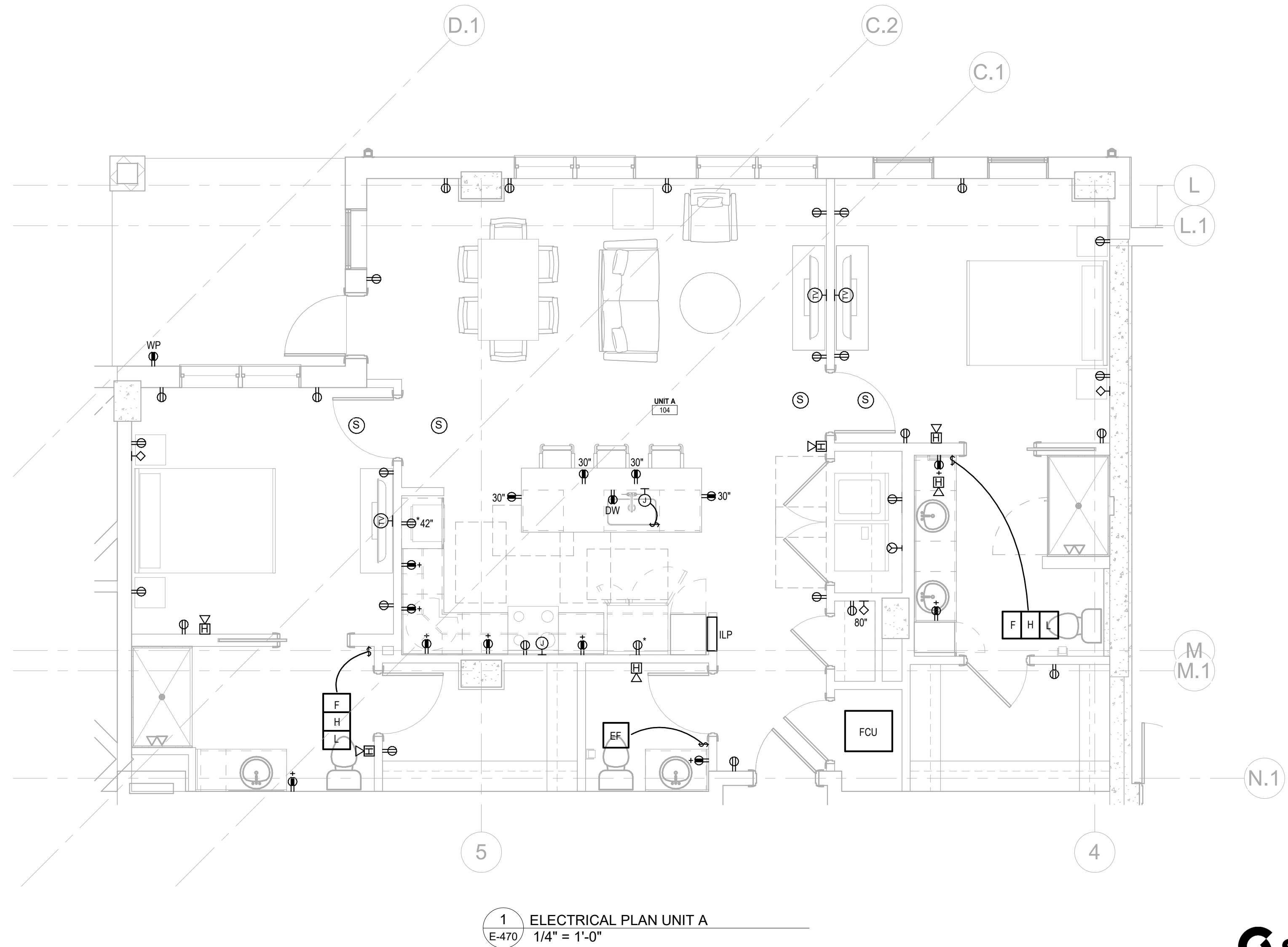
*PROVIDE AFCI BREAKERS FOR ALL 120V, SINGLE-PHASE, 15A, AND 20A CIRCUITS.
**PROVIDE AFCI/GFCI COMBINATION TYPE BREAKERS WHERE NOTED.
***CIRCUIT FOR TWO BEDROOM UNITS ONLY.

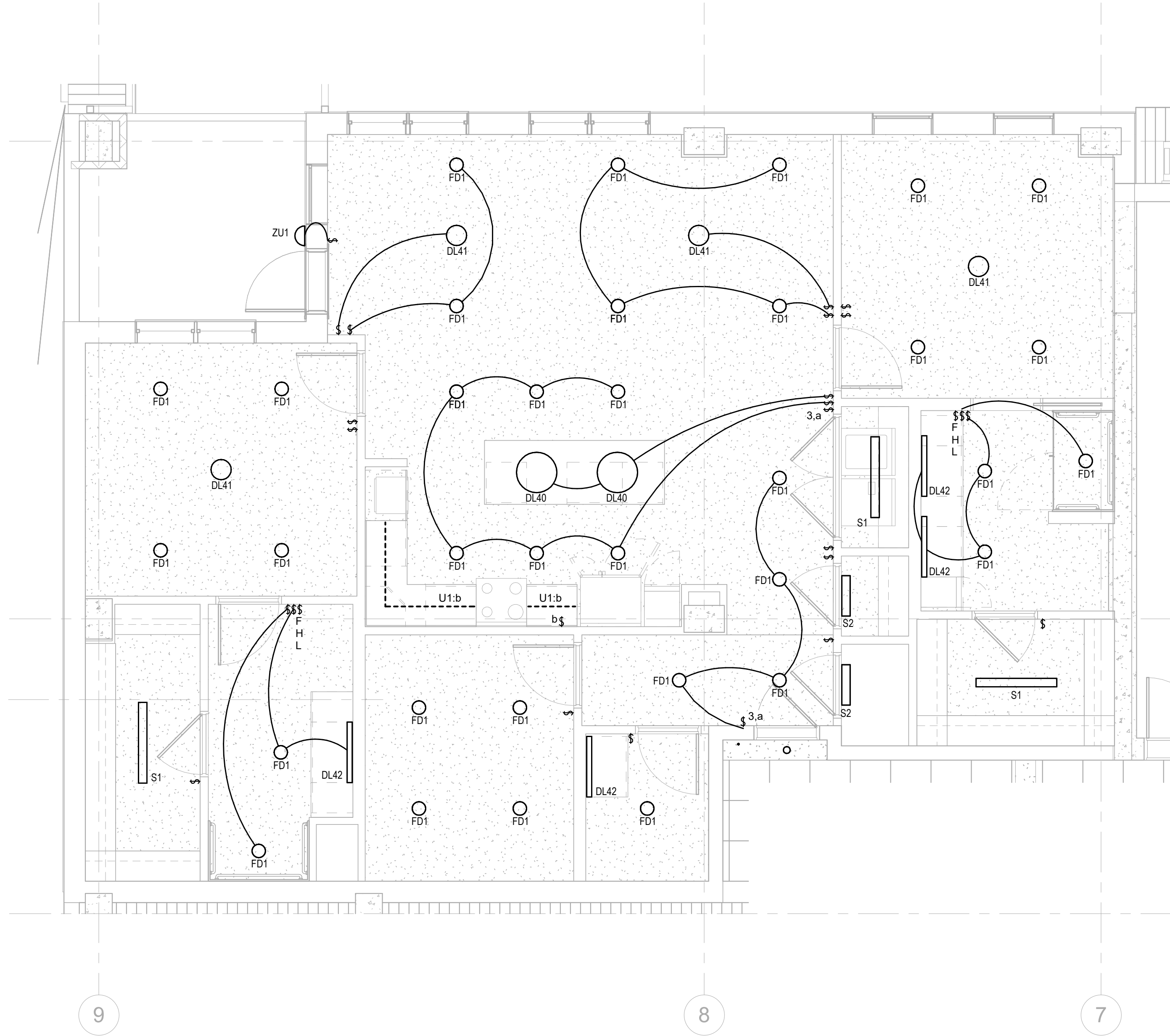
**FAN COIL FCU-A IN UNIT "A" TO HAVE 35A/2P. ALL OTHER UNITS TO HAVE 45A/2P.

*HEAT PUMP HP-G IN UNIT G TO HAVE 35A/2P. HEAT PUMP HP-A IN UNIT A TO HAVE 20A/2P. ALL OTHER UNITS TO HAVE 25A/2P.

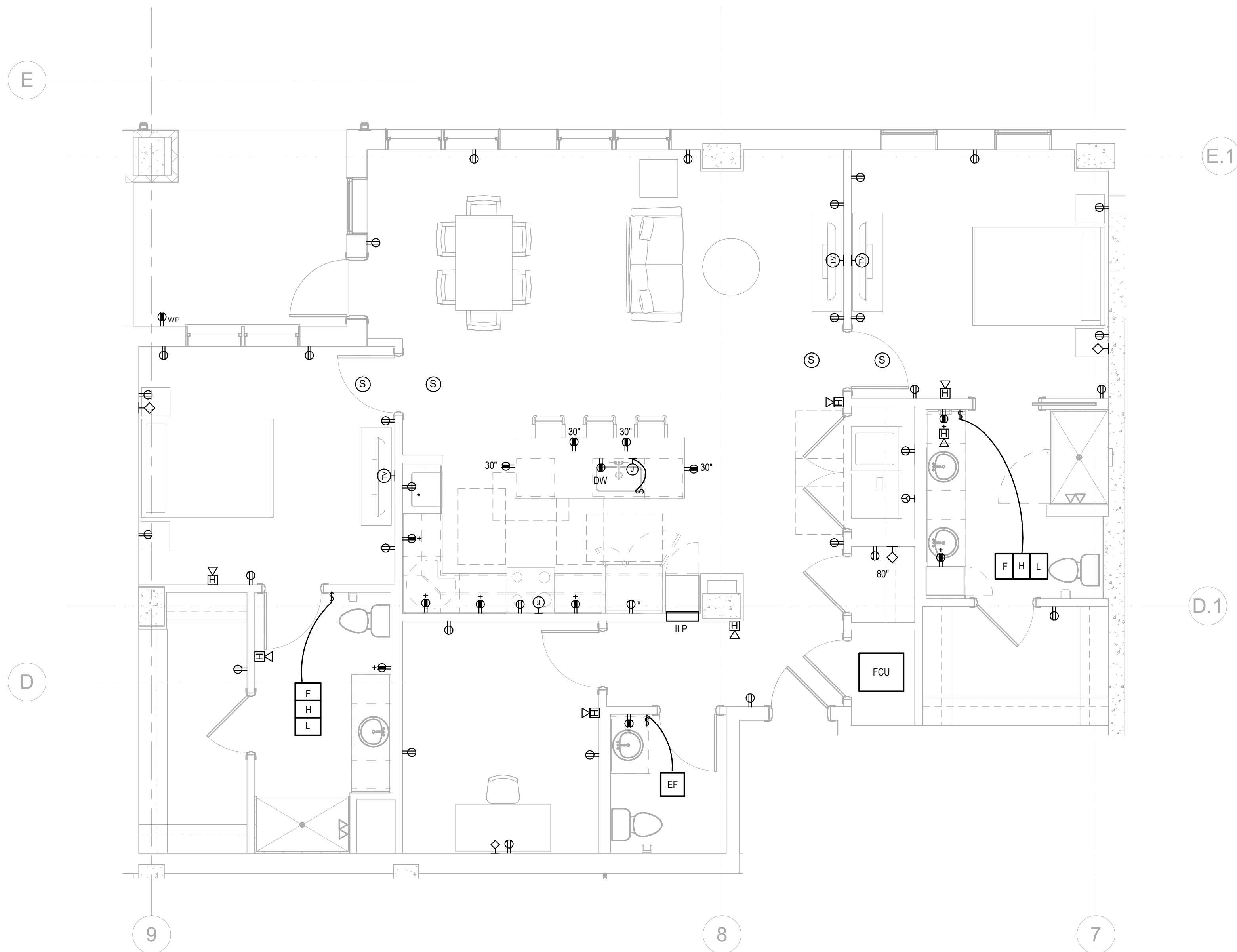
OPTIONAL FEEDER AND SERVICE LOAD CALCULATIONS (PER NEC 220 PART IV)

GENERAL LIGHTING AND RECEPTACLES: 1,540 FT ² x 3 VA/FT ²	4,620 VA
SMALL APPLIANCE CKTS (MIN 2 @ 1500 VA EA): DISHWASHER	1,500 VA
REFRIGERATOR	1,500 VA
MICROWAVE	800 VA
DISPOSAL	500 VA
LAUNDRY	1,500 VA
LARGE APPLIANCE CKTS: RANGE	6,400 VA
ELECTRIC DRYER	5,000 VA
ELECTRIC WATER HEATER	0 VA
DIVERSE TOTAL:	21,820 VA
HVAC	9,877 VA
UNIT TOTAL:	31,697 VA
	10K @ 100% = 10,000 VA
	>10K @ 40% = 4,729 VA
	HVAC @ 100% = 9,877 VA
	24,505 VA
	118A @ 208V/1PH





1 LIGHTING PLAN UNIT A1
E-471 1/4" = 1'-0"



2 ELECTRICAL PLAN UNIT A1
E-471 1/4" = 1'-0"

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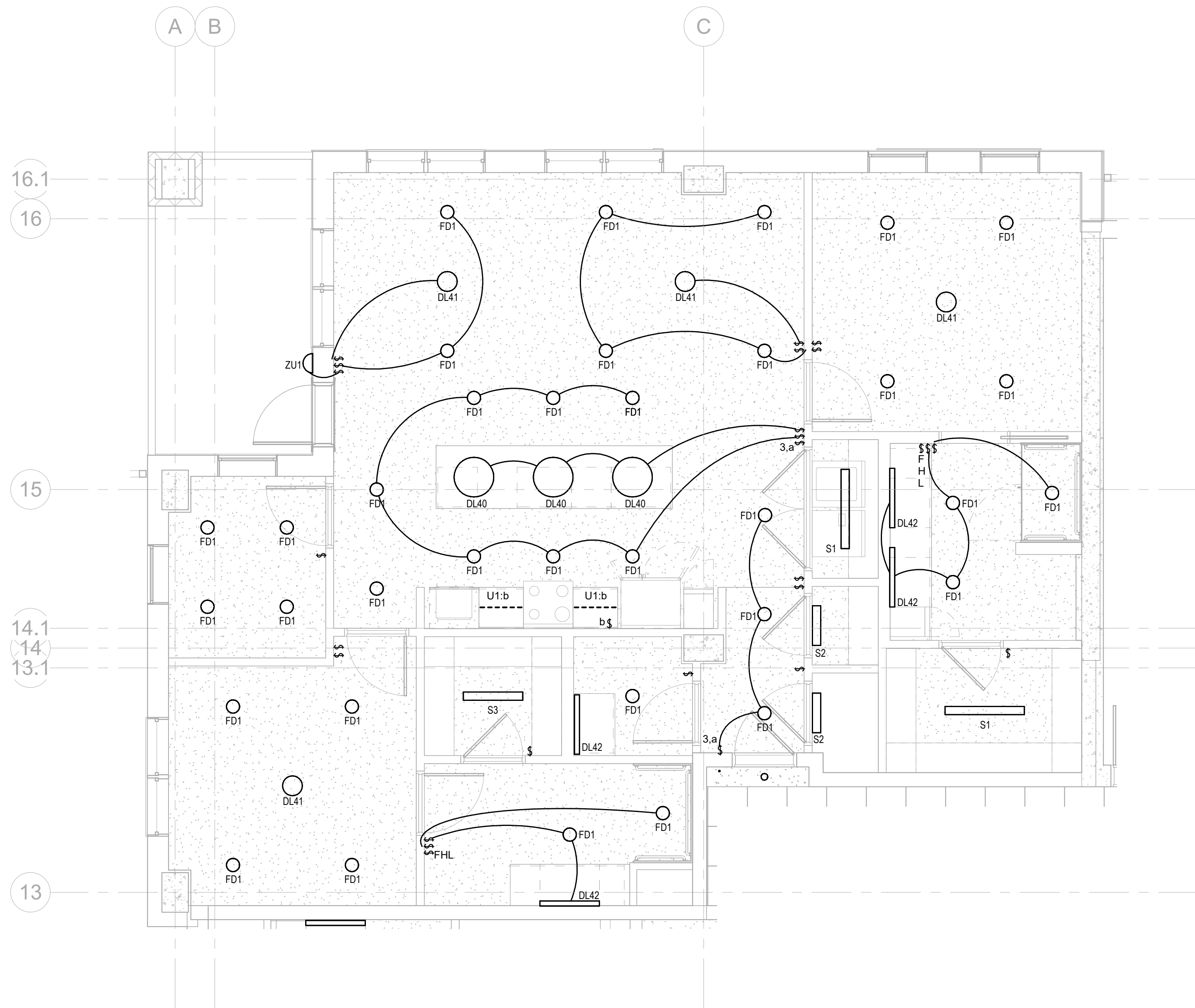
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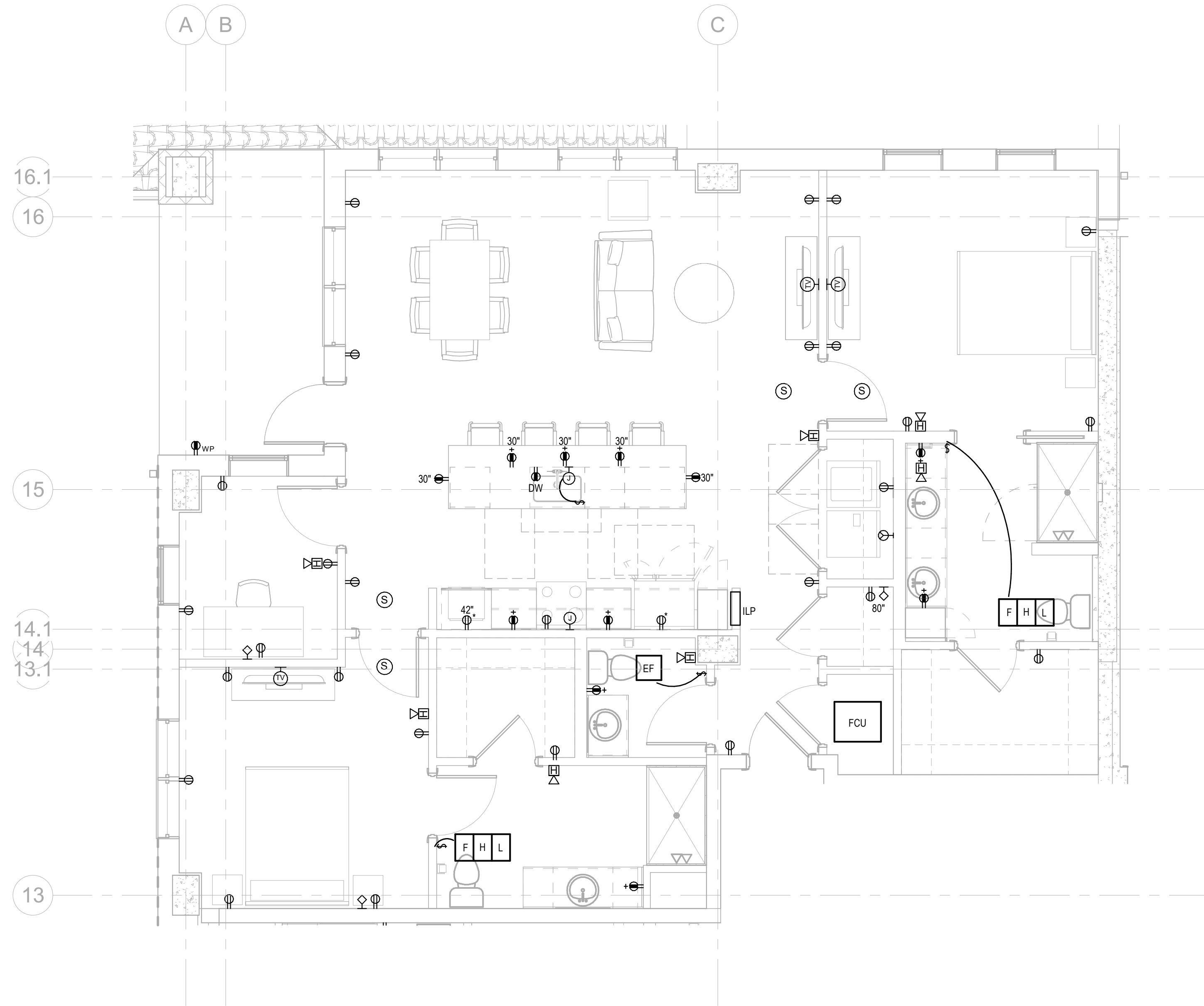
**ELECTRICAL -
UNIT A1**

E-471

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2 LIGHTING PLAN UNIT B
E-472 1/4" = 1'-0"



1 ELECTRICAL PLAN UNIT B
E-472 1/4" = 1'-0"

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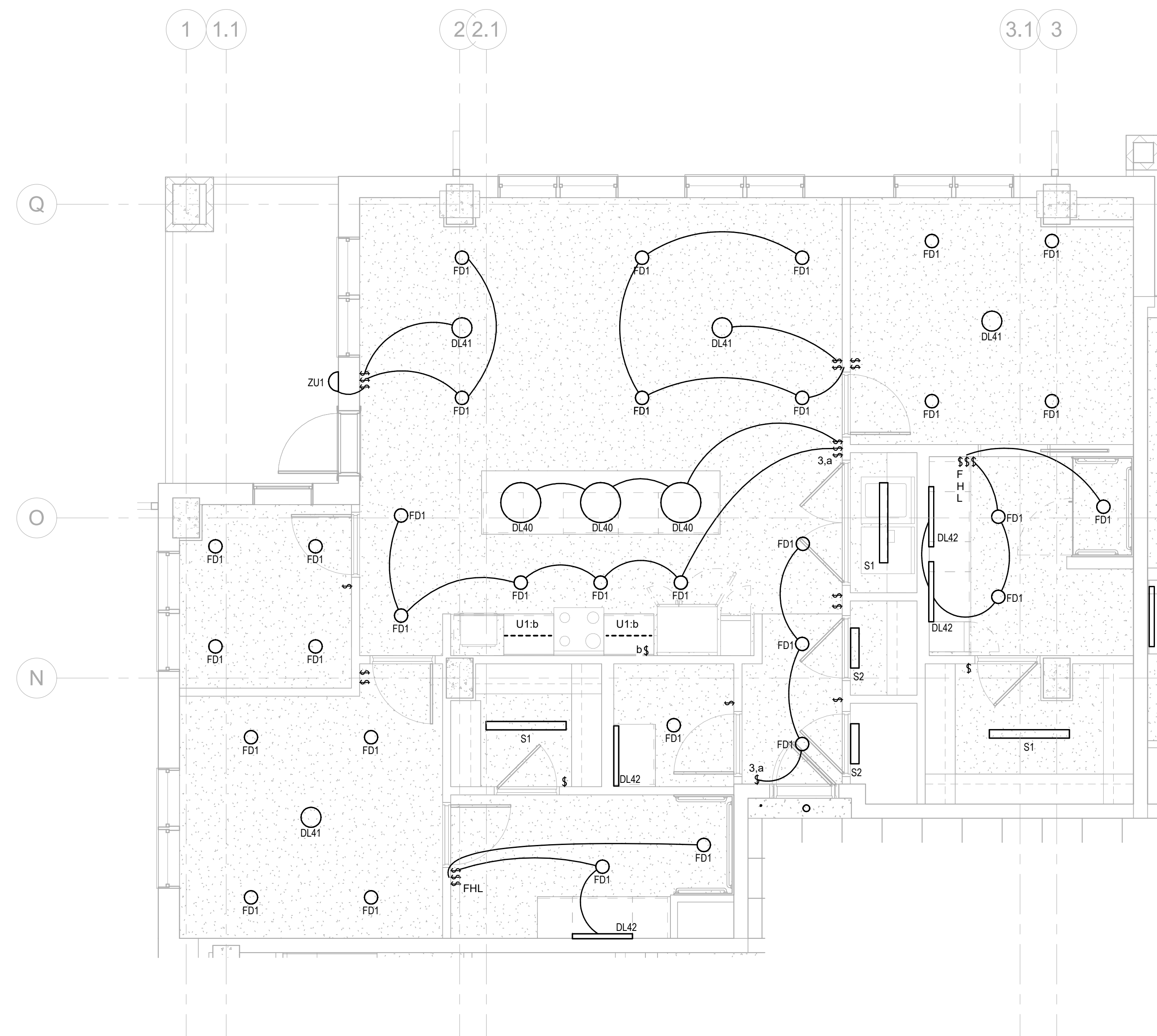
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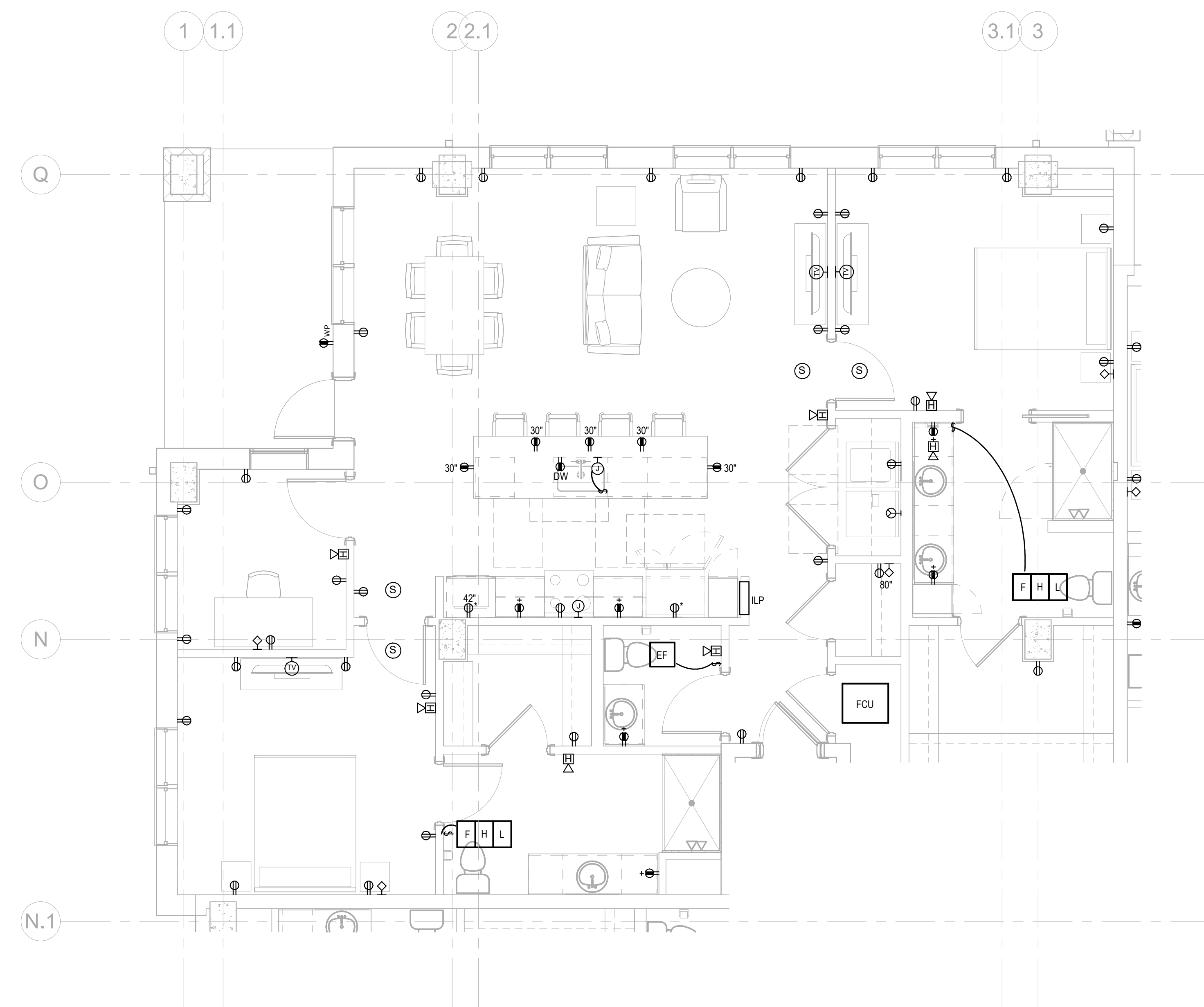
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**ELECTRICAL -
UNIT B**

E-472



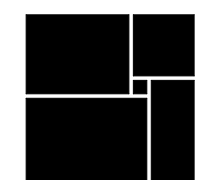
1 LIGHTING PLAN UNIT B1
E-473 1/4" = 1'-0"



2 ELECTRICAL PLAN UNIT B1
E-473 1/4" = 1'-0"

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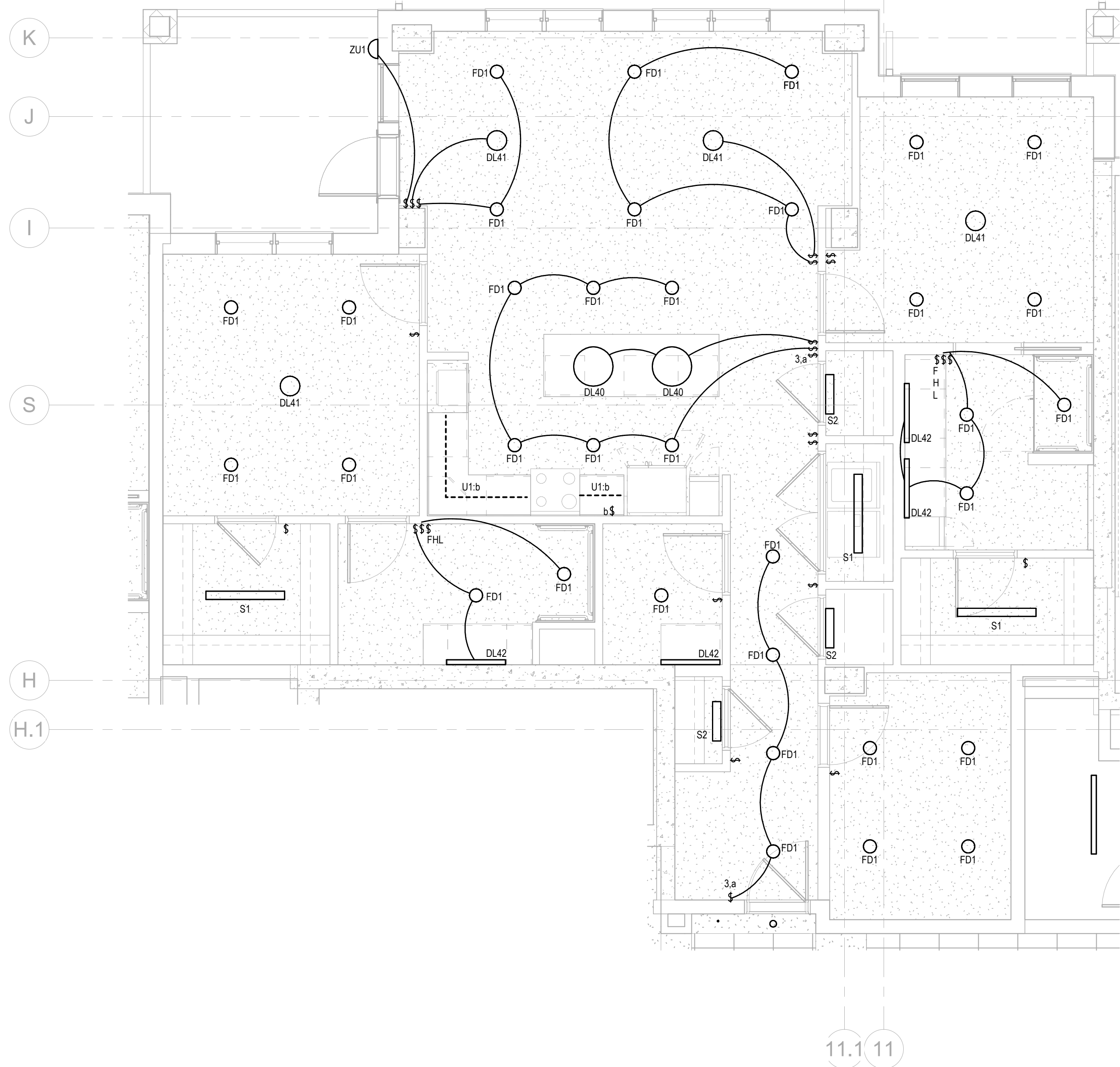
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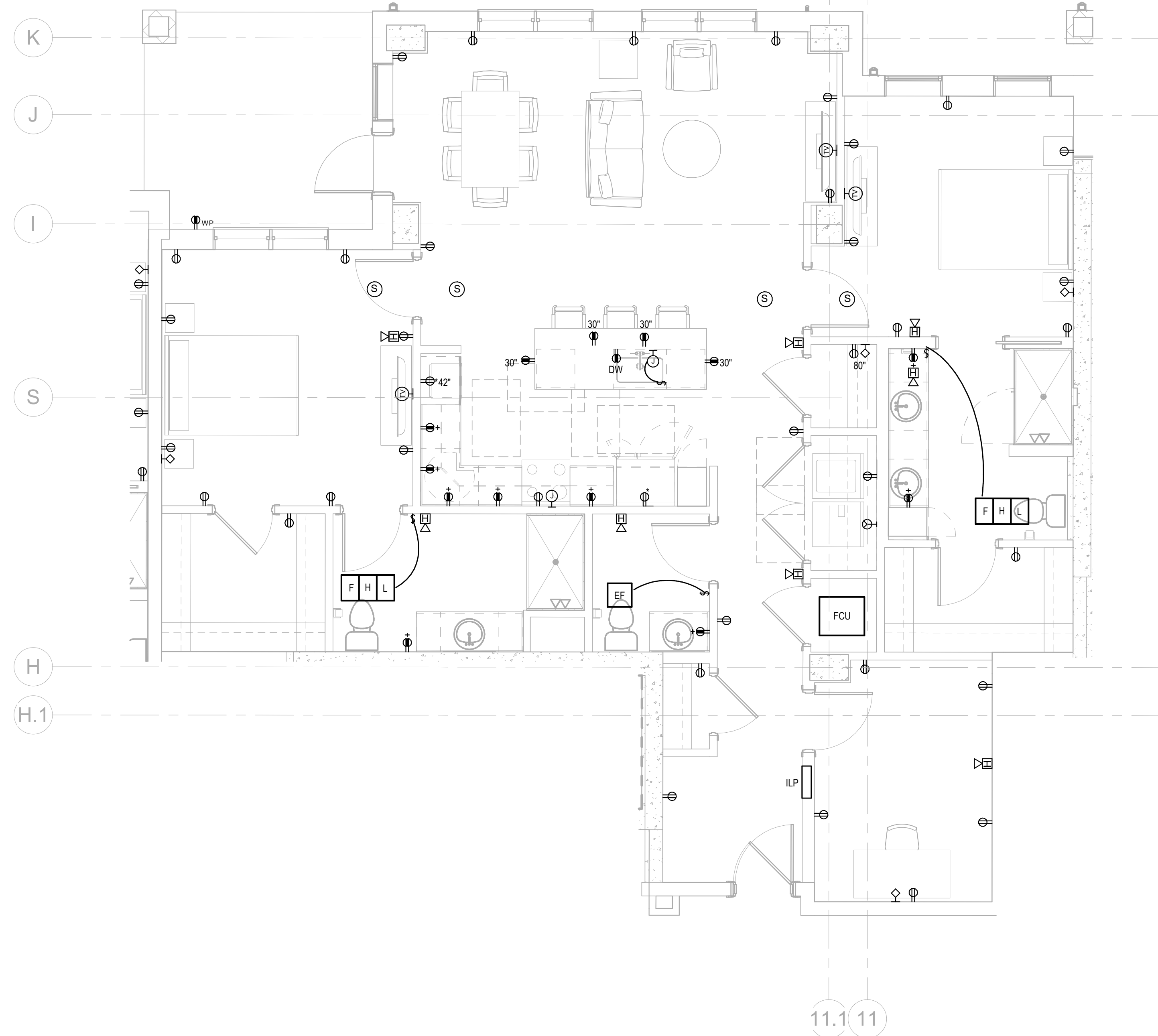
ELECTRICAL - UNIT B1

E-473

Autodesk Docs://MCP - Stage 2 - MC_AL_LU2024-03276 - MEP - ILvt



2 LIGHTING PLAN UNIT C
E-474 1/4" = 1'-0"



1 ELECTRICAL PLAN UNIT C
E-474 1/4" = 1'-0"

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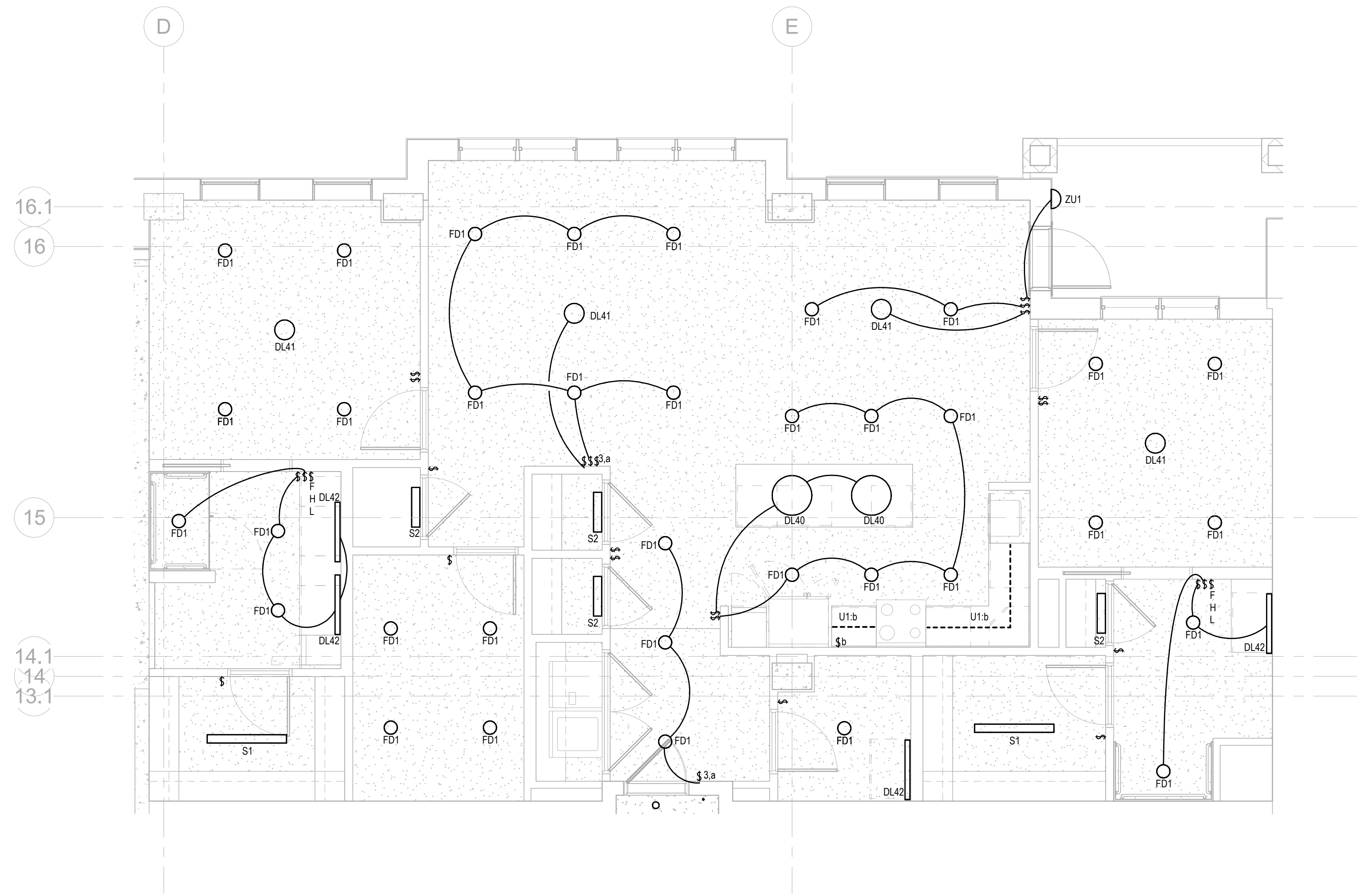
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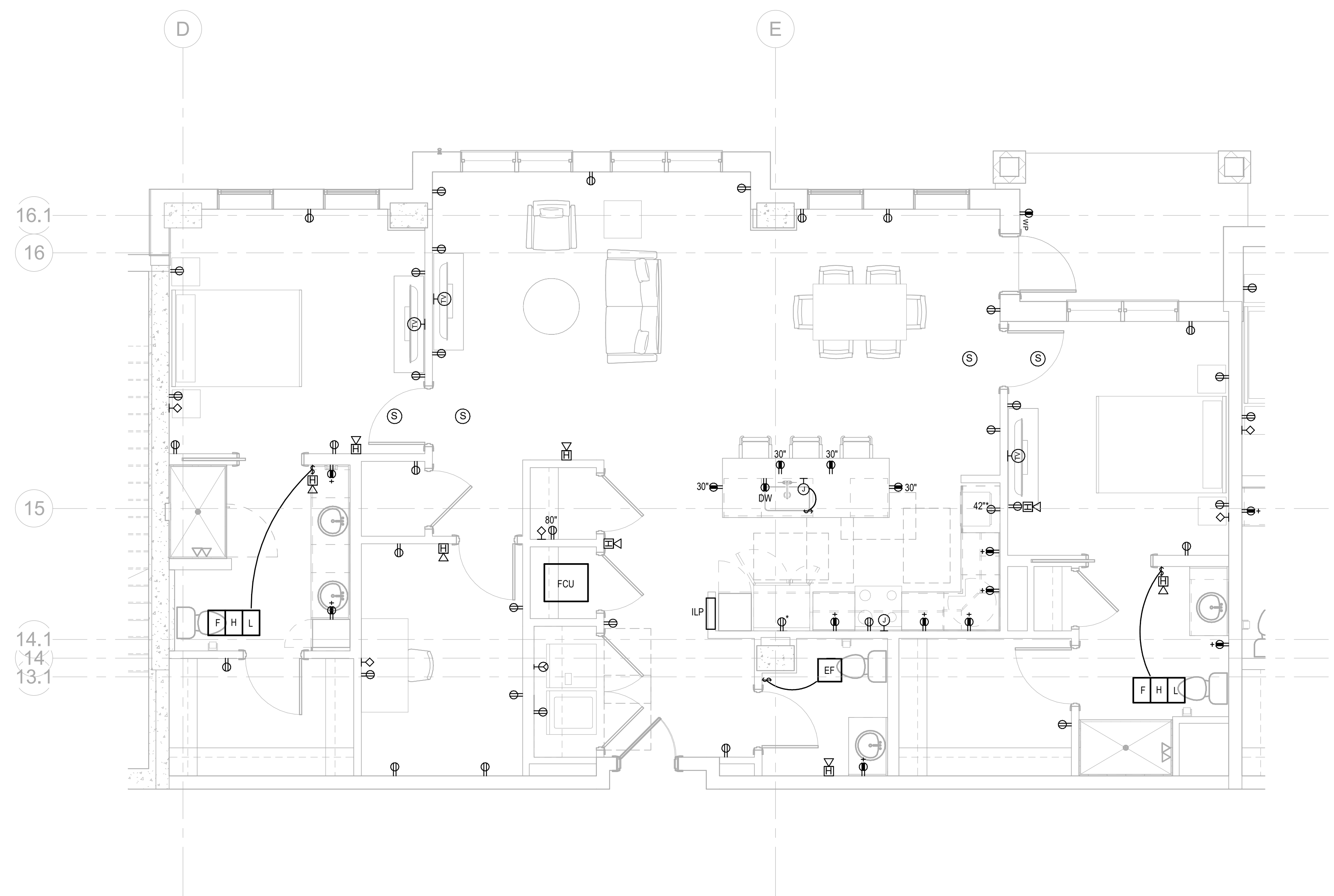
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**ELECTRICAL -
UNIT C**

E-474



1 LIGHTING PLAN UNIT D
E-475 1/4" = 1'-0"



2 ELECTRICAL PLAN UNIT D
E-475 1/4" = 1'-0"

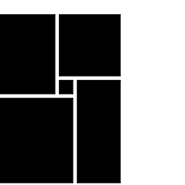
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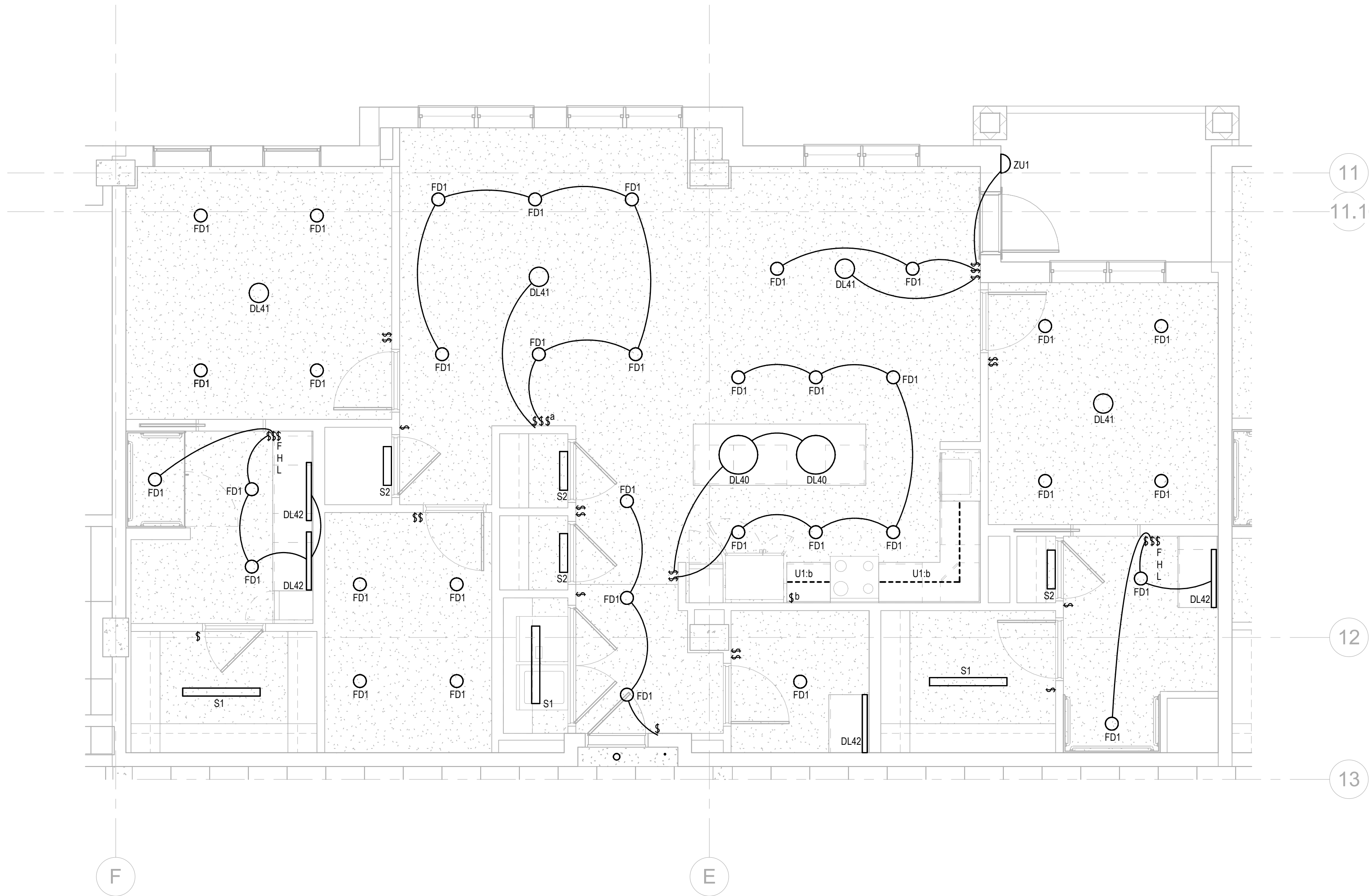
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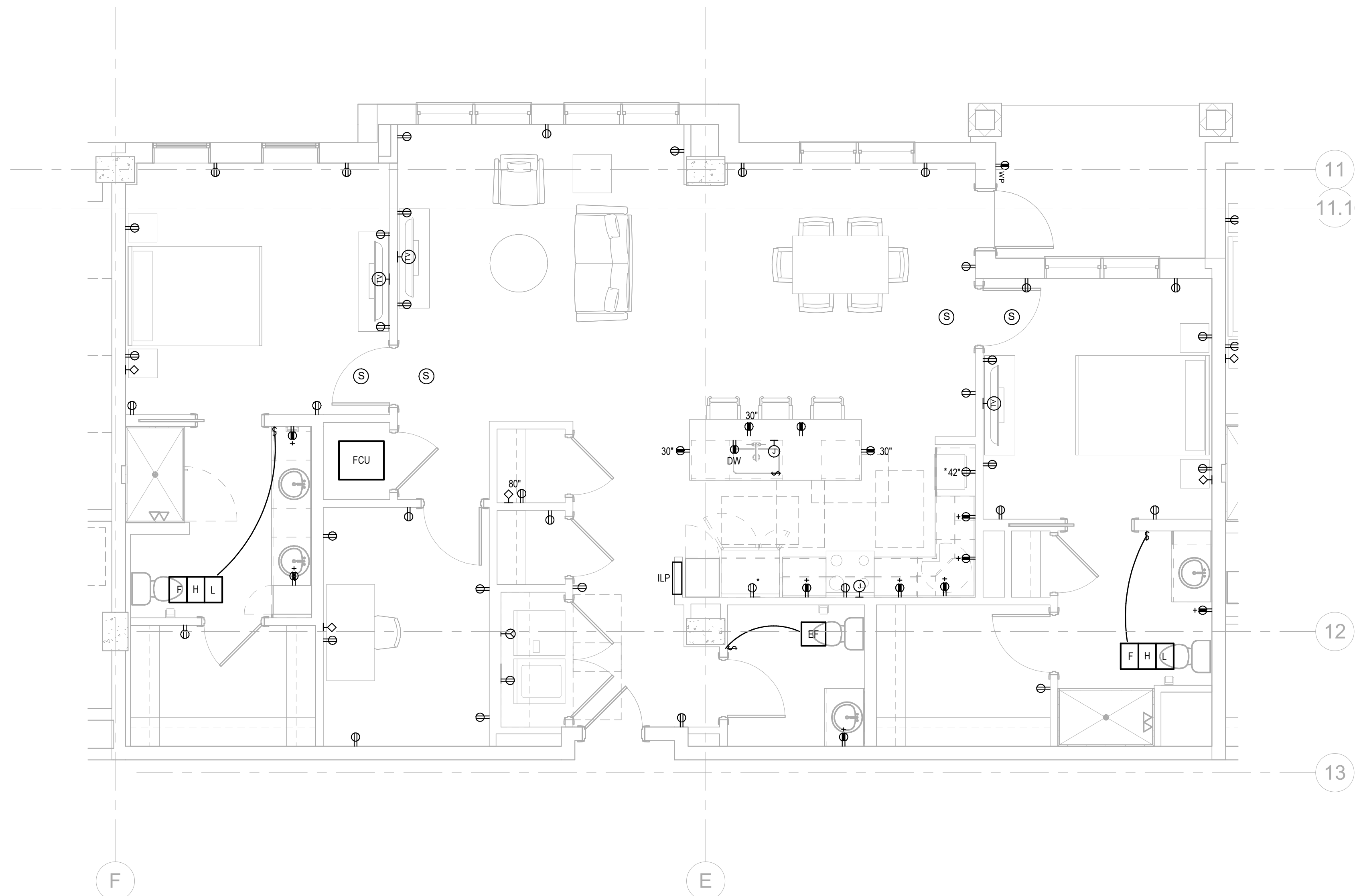
**ELECTRICAL -
UNIT D**

E-475

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2 LIGHTING PLAN UNIT D1
E-476 1/4" = 1'-0"



1 ELECTRICAL PLAN UNIT D1
E-476 1/4" = 1'-0"

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**ELECTRICAL -
UNIT D1**

E-476

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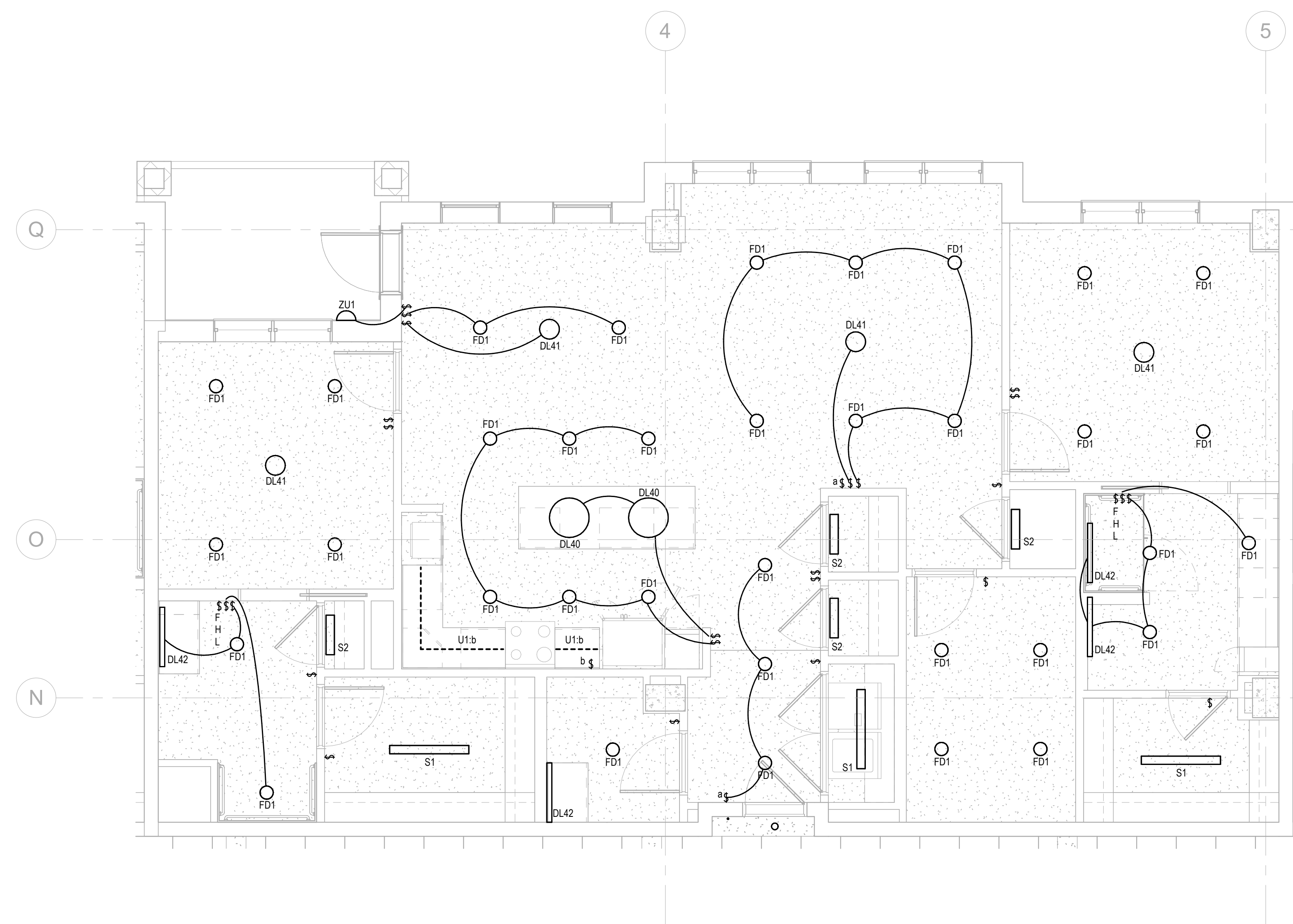
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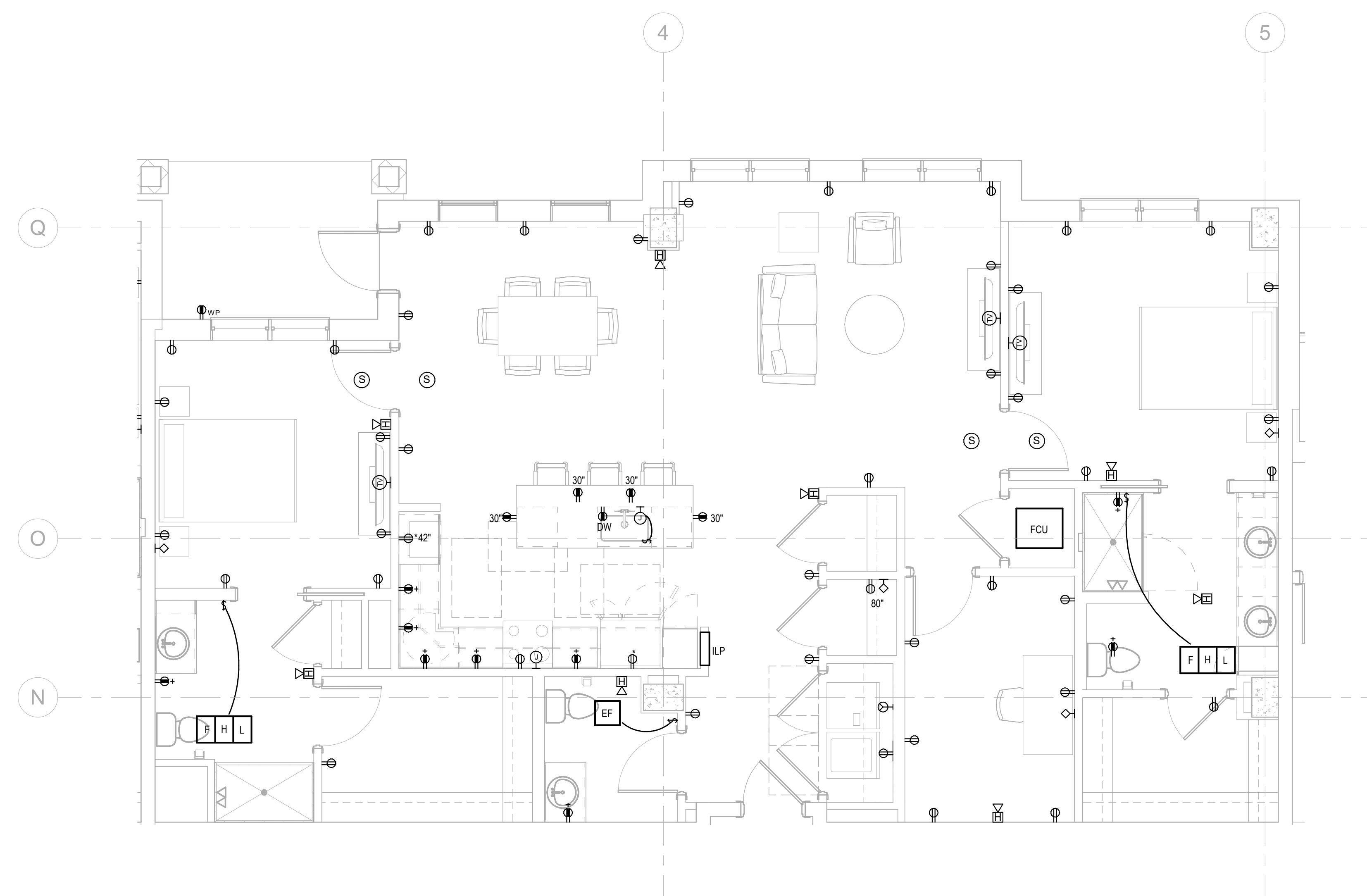
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**ELECTRICAL -
UNIT D2**

E-477



1 LIGHTING PLAN UNIT D2
E-477 1/4" = 1'-0"



2 ELECTRICAL PLAN UNIT D2
E-477 1/4" = 1'-0"

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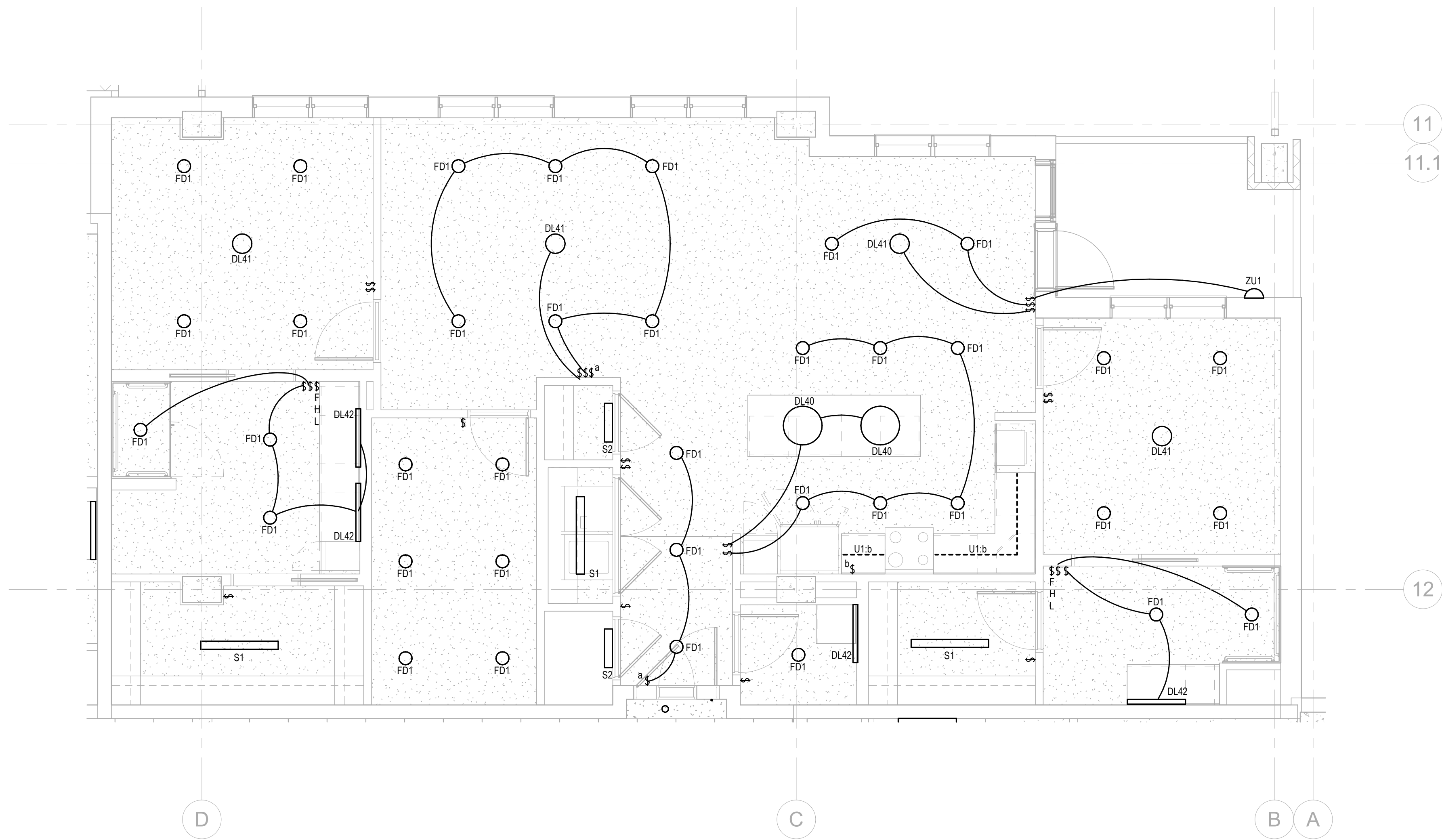
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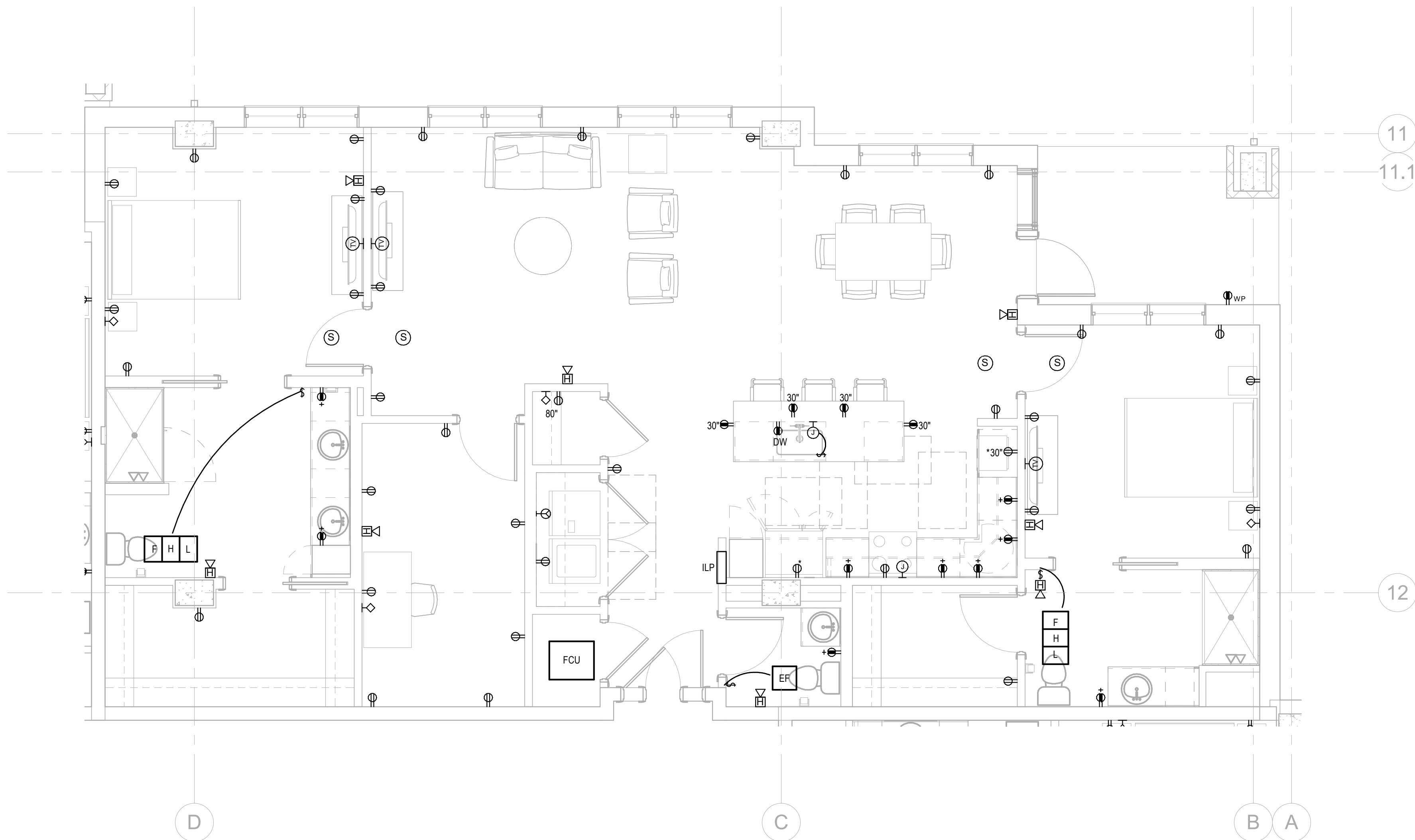
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Autodesk Docs://MCP - Stage 2 - MC_AL_LU2024-03276 - MEP - ILvt



2 LIGHTING PLAN UNIT E
E-478 1/4" = 1'-0"



1 ELECTRICAL PLAN UNIT E
E-478 1/4" = 1'-0"

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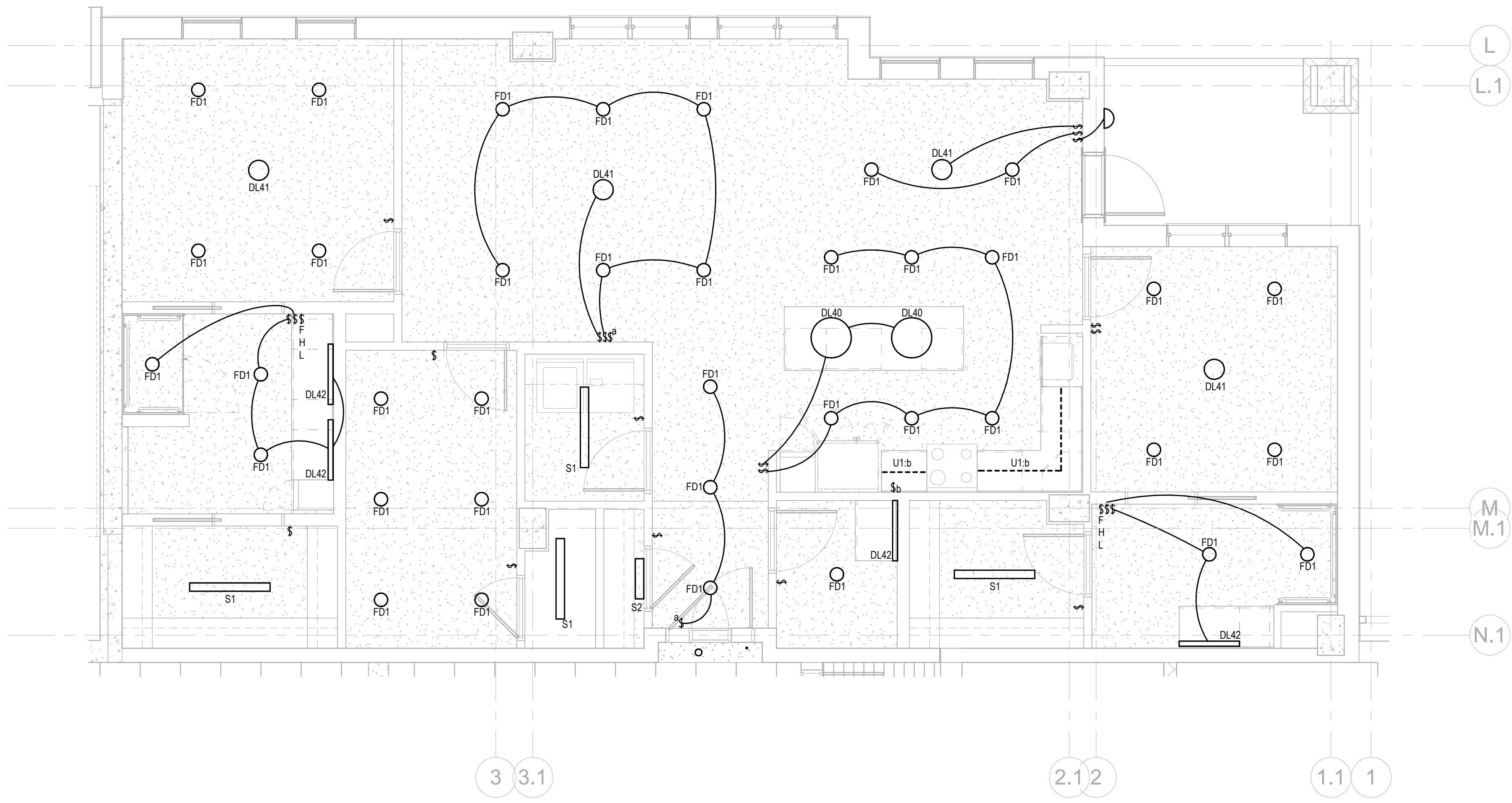
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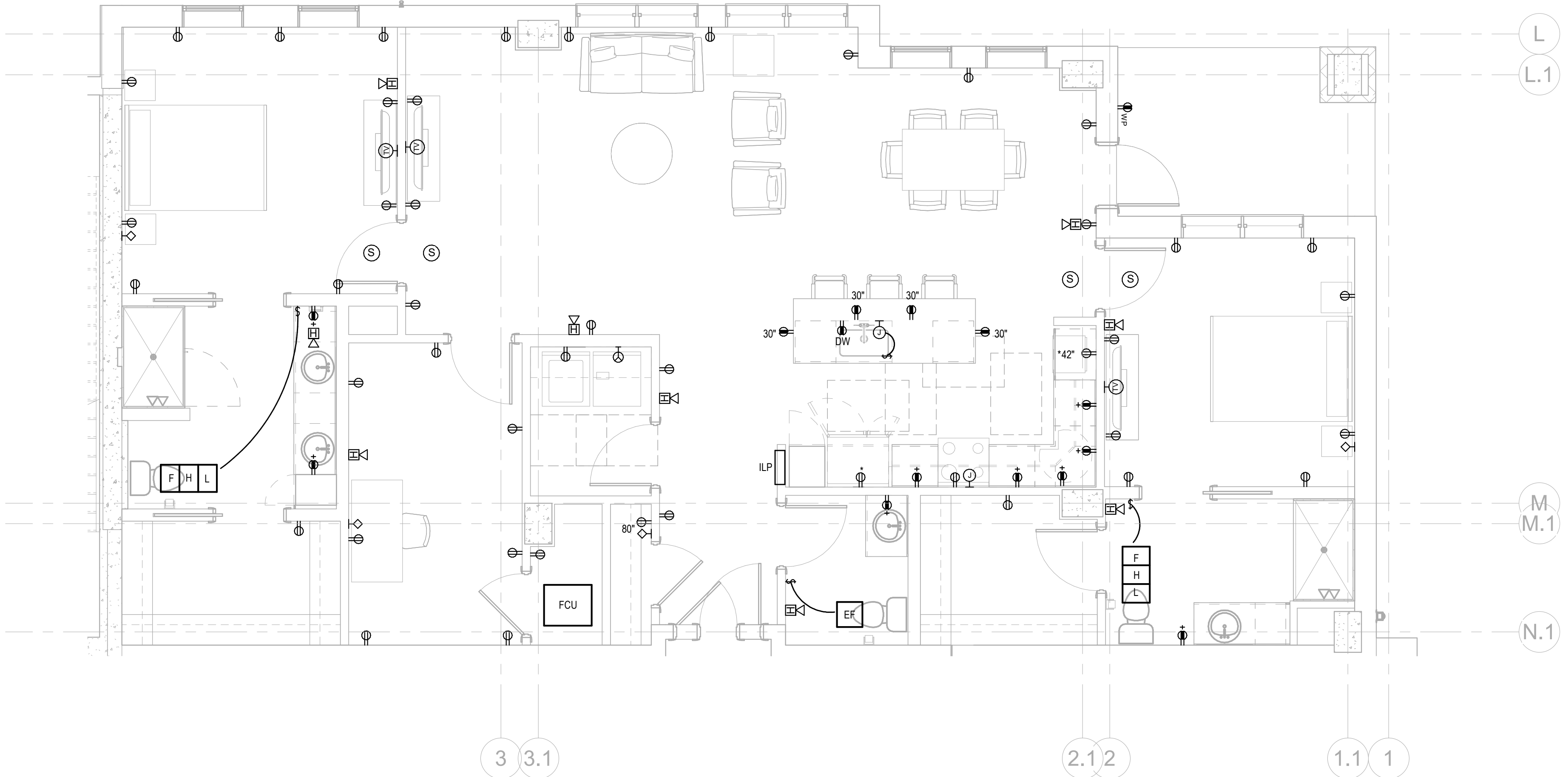
**ELECTRICAL -
UNIT E**

E-478

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2 LIGHTING PLAN UNIT E1
E-479 1/4" = 1'-0"



1 ELECTRICAL PLAN UNIT E1
E-479 1/4" = 1'-0"

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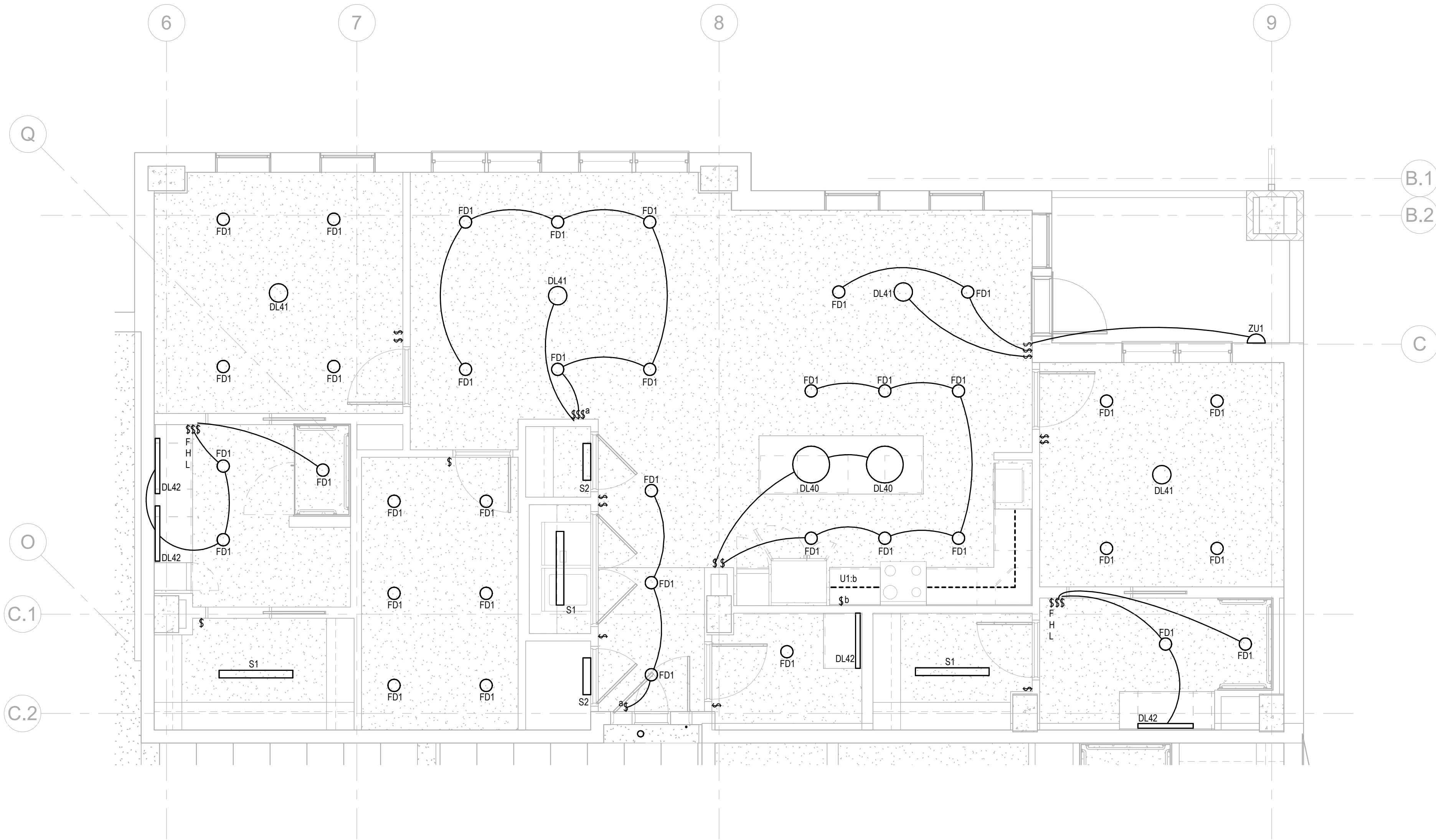
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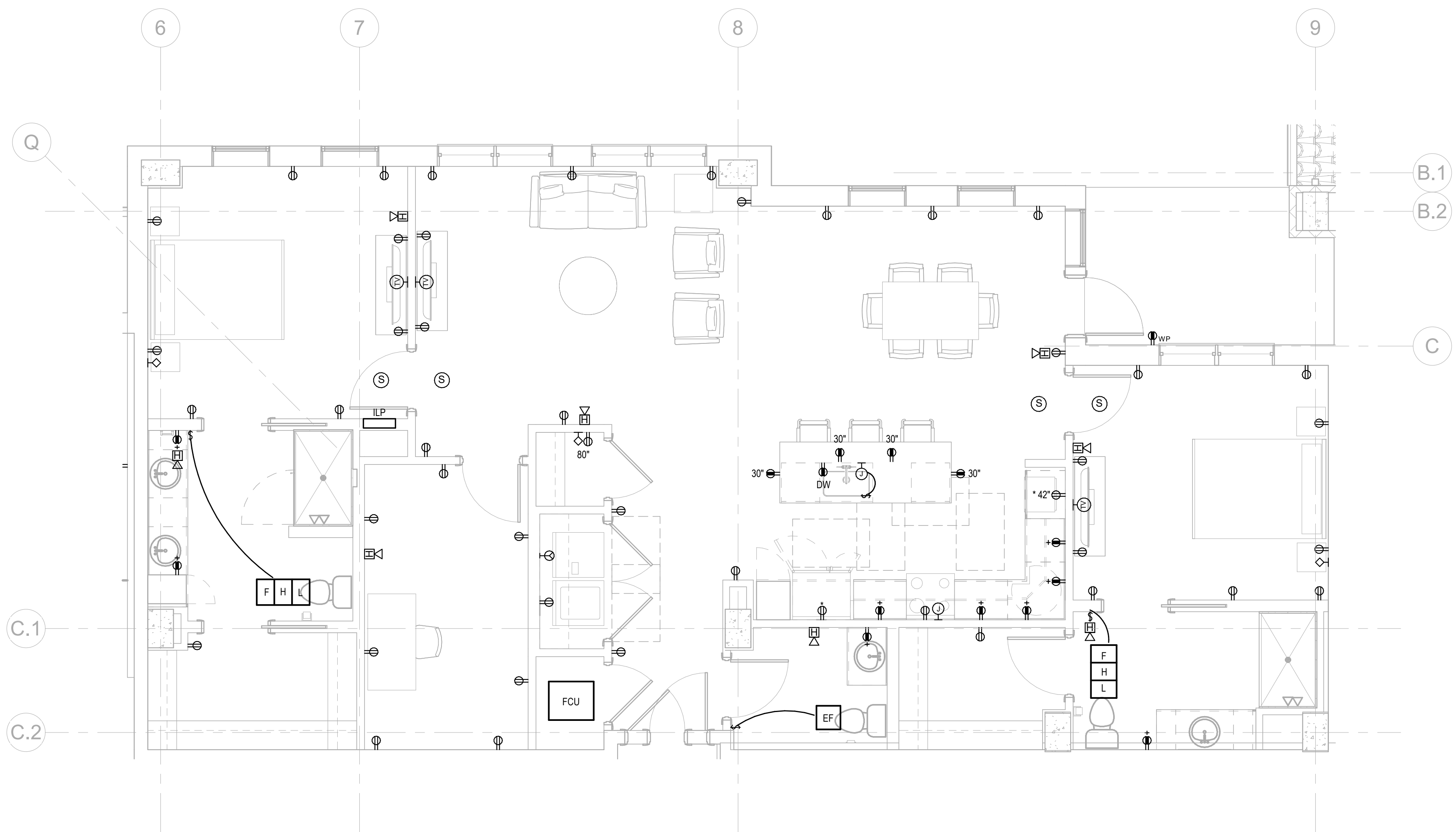
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**ELECTRICAL -
UNIT E1**

E-479



2 LIGHTING PLAN UNIT E2
E-480 1/4" = 1'-0"



1 ELECTRICAL PLAN UNIT E2
E-480 1/4" = 1'-0"

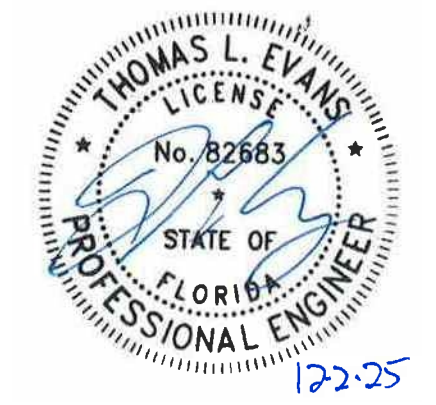
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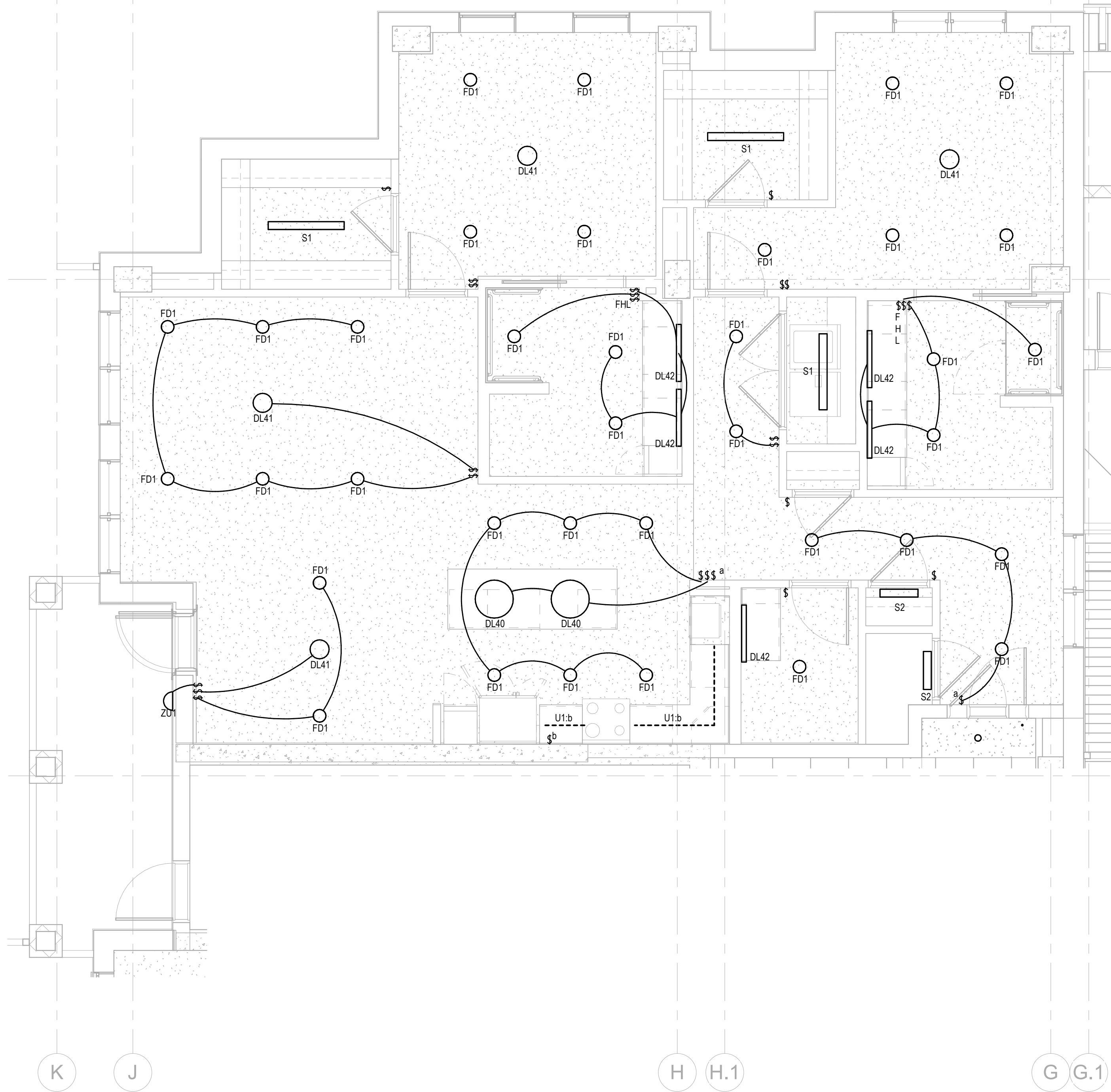
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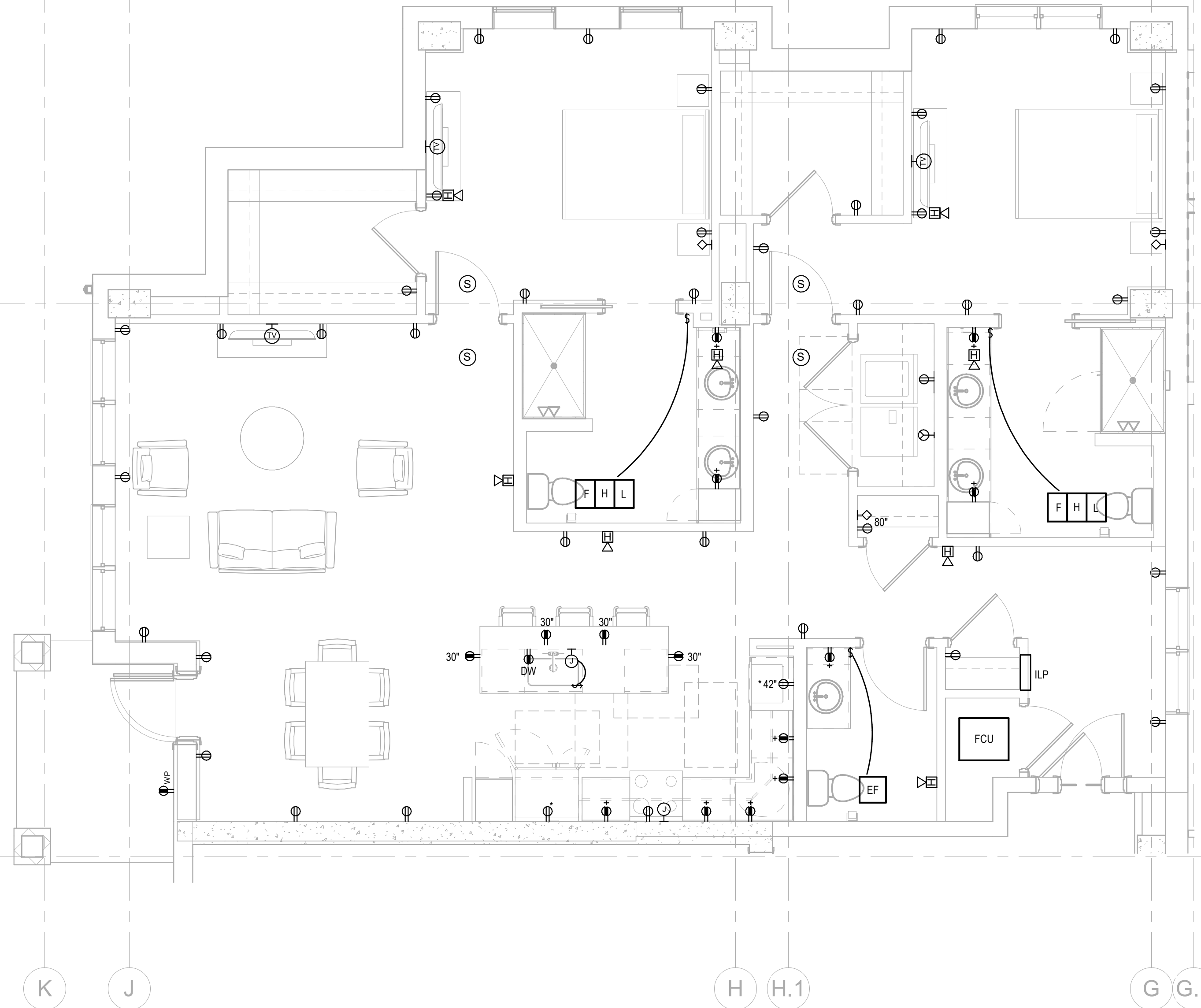
**ELECTRICAL -
UNIT E2**

E-480

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2 LIGHTING PLAN UNIT F
E-481 1/4" = 1'-0"



1 ELECTRICAL PLAN UNIT F
E-481 1/4" = 1'-0"

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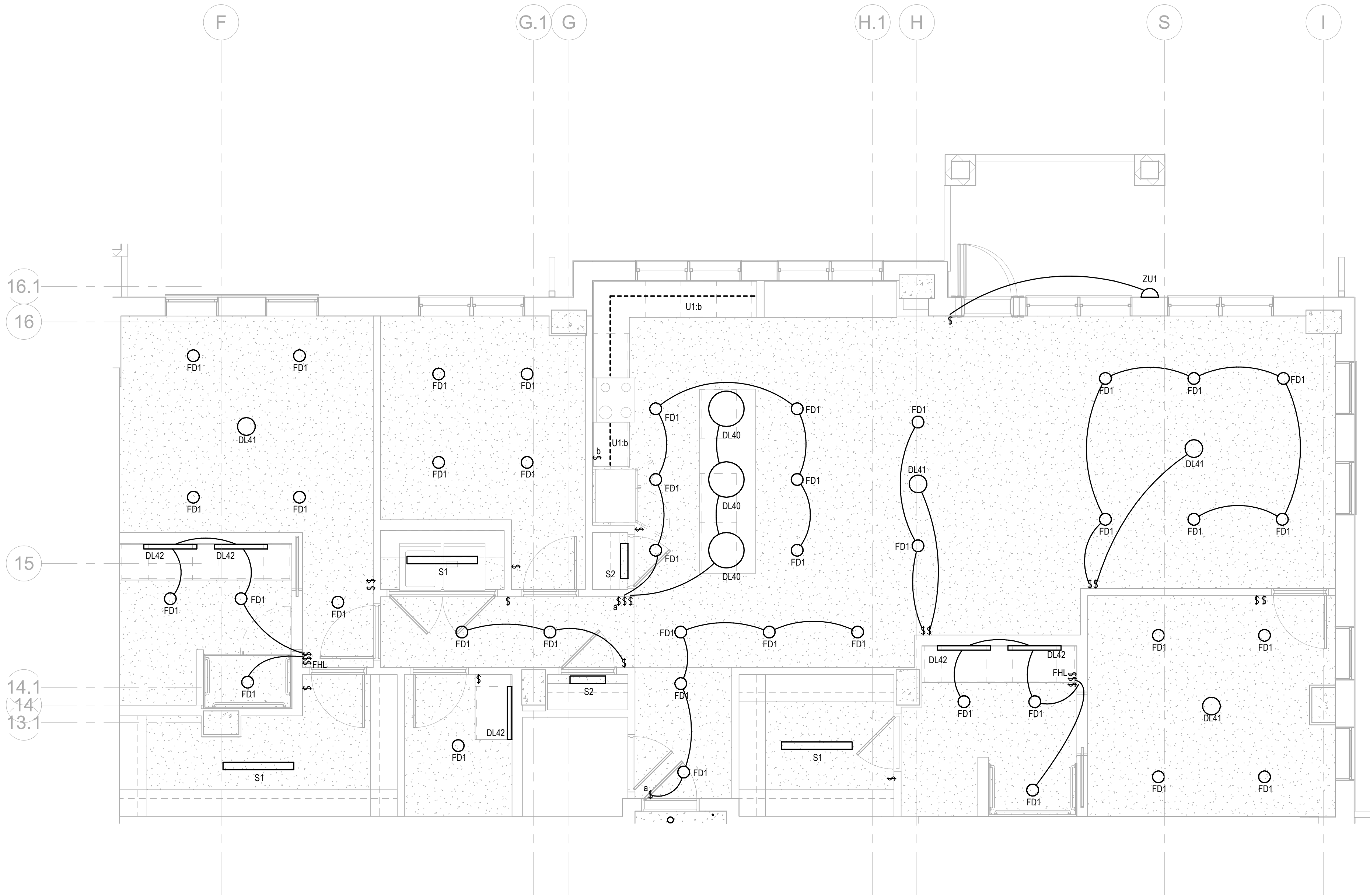
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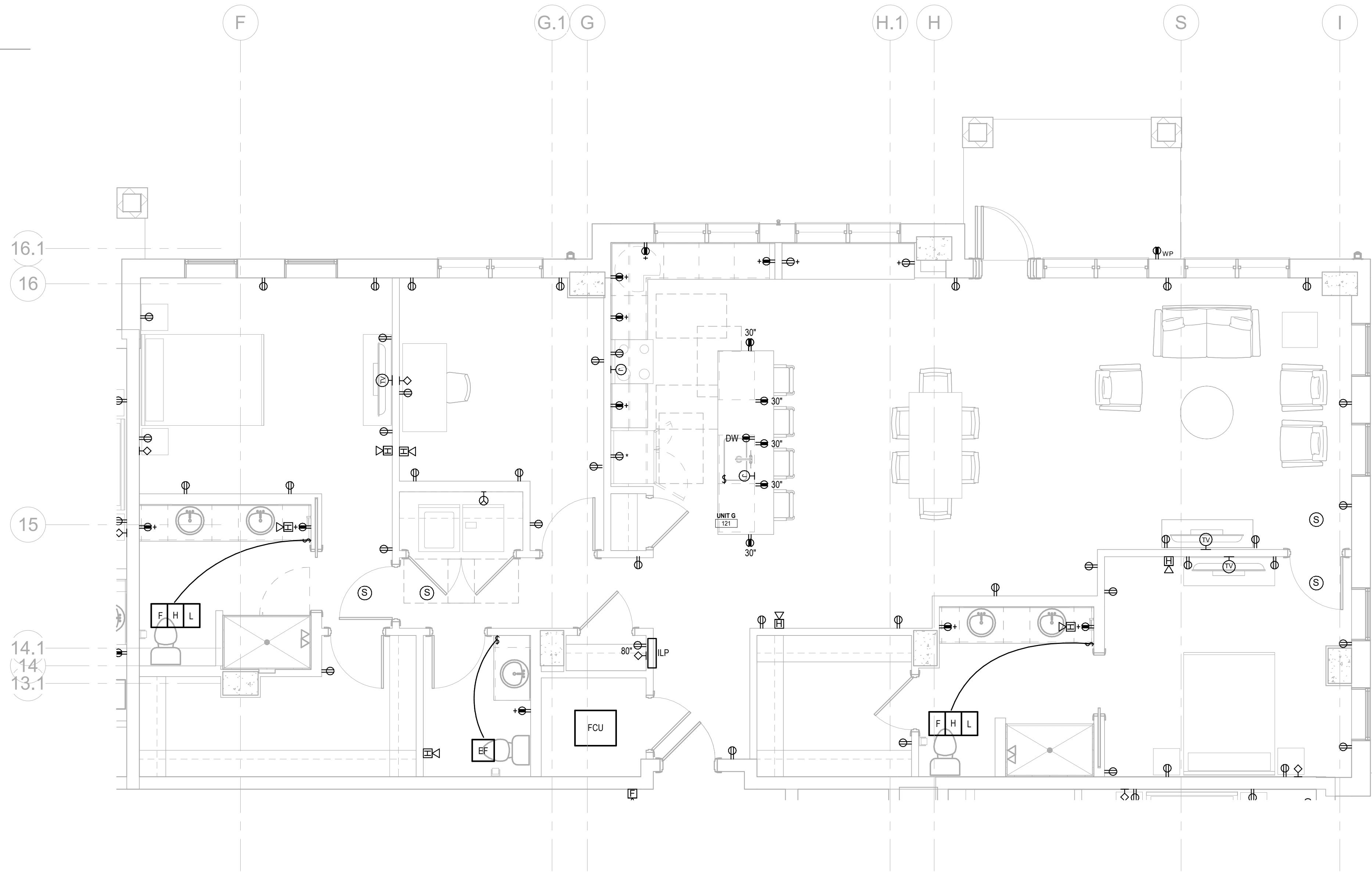
ELECTRICAL -
UNIT F

E-481

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1 LIGHTING PLAN UNIT G
E-482 1/4" = 1'-0"



2 ELECTRICAL PLAN UNIT G
E-482 1/4" = 1'-0"

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**ISSUED FOR
CONSTRUCTION**

Project No.: 2021009
Date: 12/01/2025

**ELECTRICAL -
UNIT G**

E-482

12/2/2025 3:38:52 PM

Autodesk Docs://MCH - Stage 2 - MC_AL_LU2024-03276 - MEP - ILvt

Switchboard: MSB-IL					
SUPPLY FROM:		VOLTS: 120/208 Wye		A.I.C. RATING: 65 KA/IC	
MOUNTING:		PHASES: 3		MAINS TYPE: MCB	
ENCLOSURE:		WIRES: 4		MAINS RATING: 3000 A	
				MCB RATING: 3000 A	
CKT	Circuit Description	# of Poles	Trip Rating	Load	Remarks
1	L1A1	3	400 A	149965	
2	P	3	400 A	46800	
3	L1B	3	400 A	102710	
4	E1 via ATS	3	100 A	7232	
5	ERS1 via ATS	3	800 A	150796	
6	L2A	3	400 A	176234	
7	L2B	3	400 A	152362	
8	L3A	3	400 A	177584	
9	L3B1	3	800 A	64334	
10	L3B2	3	800 A	147030	
11	L4A1	3	800 A	65258	
12	L4A2	3	800 A	148031	
13					
14					
15					
16					
17					
18					
19					
20					
			TOTAL CONN LOAD (VA): 1388336 VA		
Load Classification		Connected Load	Demand Factor	Estimated Demand	Panel Totals
HVAC		167394 VA	100.00%	167394 VA	
Motor		162334 VA	106.62%	173084 VA	TOTAL CONNECTED LOAD (KVA): 1388336 VA
Receptacle		994735 VA	50.50%	502368 VA	TOTAL DEMAND LOAD (KVA): 910987 VA
Lighting		17073 VA	125.00%	21341 VA	TOTAL CONNECTED LOAD (A): 3854 A
EV CHARGING RECEP		46800 VA	100.00%	46800 VA	TOTAL DEMAND LOAD (A): 2529 A
Notes:					

Branch Panel: L1A1										
SUPPLY FROM: MSB-IL				VOLTS: 120/208 Wye			A.I.C. RATING: 42 KAIC			
MOUNTING: Surface				PHASES: 3			MAINS TYPE: MLO			
ENCLOSURE: Type 1				WIRES: 4			MAINS RATING: 400 A			
CKT	CIRCUIT DESCRIPTION	TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT
1	FCU-1A-1	45	2	3495	500		1	20		2
3	--	--	--		3495	500		1	RECEPTACLE	2
5	FCU-1A-2	45	2			3495	360	1	RECEPTACLE	6
7	--	--	--	3495	36758			3		L1A2
9	FCU-2A-1	45	2		3495	36758		--		--
11	--	--	--			3495	24505	--		--
13	FCU-3A-1	45	2	3495	2546		3	40		DBP-1
15	--	--	--		3495	2546		--		--
17	FCU-4A-1	45	2			3495	2546	--		--
19	--	--	--	3495	1053			1	20	LIGHTING
21	EF-A-1	20	1		50	1309		1	20	LIGHTING
23	EF-A-2	20	1			50				22
25	REC MDF 109	20	1	360						24
27	REC MDF 109	20	1		360					26
29	REC MDF 109	20	1			360				30
31	REC CLUBROOM 101	20	1	1080						32
33	REC CLUBROOM 101	20	1		900					34
35	RECS CORRIDOR	20	1			900				36
37	RECEPTACLE	20	1	1220						38
39	RECEPTACLE	20	1		180					40
41	RECEPTACLE	20	1			180				42
TOTAL LOAD (VA):				57495 VA	53086 VA	39385 VA				
FEED THRU LOAD (VA):				0 VA	0 VA	0 VA				
PANEL TOTALS (VA):				57495 VA	53086 VA	39385 VA				
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED...		PANEL TOTALS		
HVAC		34945 VA		100.00%		34945 VA		TOTAL CONNECTED LOAD... 150		
Motor		7738 VA		124.68%		9648 VA		TOTAL DEMAND LOAD (KVA): 105		
Receptacle		104920 VA		54.77%		57460 VA		TOTAL CONNECTED LOAD (A): 416		
Lighting		2362 VA		125.00%		2953 VA		TOTAL DEMAND LOAD (A): 291		
NOTES:										

BRANCH PANEL: ERS1										
SUPPLY FROM: MSB-IL				VOLTS: 120/208 Wye			A.I.C. RATING: 42 KAIC			
MOUNTING: Surface				PHASES: 3			MAINS TYPE: MLO			
ENCLOSURE: Type 1				WIRES: 4			MAINS RATING: 800 A			
FEED THRU LUGS: NO										
CKT	CIRCUIT DESCRIPTION	TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT
3	ERS4	400	3	17966						2
5	--	--	--		17966					4
7	ERS3	400	3	17966		17966				6
9	--	--	--		17966					8
11	--	--	--			17966				10
13	LIFT STATION (ON SITE)	150	3	14333						12
15	--	--	--		14333					14
17	--	--	--			14333				16
19										18
21										20
23										22
25										24
27										26
29										28
31										30
33										32
35										34
37										36
39										38
41										40
42										42
TOTAL LOAD (VA):				50265	50265	50265				
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...	PANEL TOTALS					
Motor		150796 VA	107.13%	161546 VA	TOTAL CONNECTED LOAD... 151					
					TOTAL DEMAND LOAD (KVA): 162					
					TOTAL CONNECTED LOAD (A): 419					
					TOTAL DEMAND LOAD (A): 448					
NOTES:										

BRANCH PANEL: P											
SUPPLY FROM: MSB-IL			VOLTS: 120/208 Wye			A.I.C. RATING: 42 KAIC					
MOUNTING: Surface			PHASES: 3			MAINS TYPE: MLO					
ENCLOSURE: Type 1			WIRES: 4			MAINS RATING: 400 A					
FEED THRU LUGS: NO											
CKT	CIRCUIT DESCRIPTION	TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT	
1	EV CHARGING RECEP	20	1	1200	1200			1	20	EV CHARGING RECEP	2
3	EV CHARGING RECEP	20	1		1200	1200		1	20	EV CHARGING RECEP	4
5	EV CHARGING RECEP	20	1			1200	1200	1	20	EV CHARGING RECEP	6
7	EV CHARGING RECEP	20	1	1200	1200			1	20	EV CHARGING RECEP	8
9	EV CHARGING RECEP	20	1		1200	1200		1	20	EV CHARGING RECEP	10
11	EV CHARGING RECEP	20	1			1200	1200	1	20	EV CHARGING RECEP	12
13	EV CHARGING RECEP	20	1	1200	1200			1	20	EV CHARGING RECEP	14
15	EV CHARGING RECEP	20	1		1200	1200		1	20	EV CHARGING RECEP	16
17	EV CHARGING RECEP	20	1			1200	1200	1	20	EV CHARGING RECEP	18
19	EV CHARGING RECEP	20	1	1200	1200			1	20	EV CHARGING RECEP	20
21	EV CHARGING RECEP	20	1		1200	1200		1	20	EV CHARGING RECEP	22
23	EV CHARGING RECEP	20	1			1200	1200	1	20	EV CHARGING RECEP	24
25	EV CHARGING RECEP	20	1	1200	1200			1	20	EV CHARGING RECEP	26
27	EV CHARGING RECEP	20	1		1200	1200		1	20	EV CHARGING RECEP	28
29	EV CHARGING RECEP	20	1			1200	1200	1	20	EV CHARGING RECEP	30
31	EV CHARGING RECEP	20	1	1200	1200			1	20	EV CHARGING RECEP	32
33	EV CHARGING RECEP	20	1		1200	1200		1	20	EV CHARGING RECEP	34
35	EV CHARGING RECEP	20	1			1200	1200	1	20	EV CHARGING RECEP	36
37	EV CHARGING RECEP	20	1	1200							38
39	EV CHARGING RECEP	20	1		1200						40
41	EV CHARGING RECEP	20	1			1200					42
TOTAL LOAD (VA):				15600	15600	15600					
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED...		PANEL TOTALS			
EV CHARGING RECEP		46800 VA		100.00%		46800 VA					
								TOTAL CONNECTED LOAD: 47			
								TOTAL DEMAND LOAD (KVA): 47			
								TOTAL CONNECTED LOAD (A): 130			
								TOTAL DEMAND LOAD (A): 130			
NOTES:											

Autodesk Docs://MCP - Stage 2 - MC_AL_U/2024-03276 - MEP - IL.vrt

BRANCH PANEL: L2A												
SUPPLY FROM: MSB-IL				VOLTS: 120/208 Wye				A.I.C. RATING: 42 KAIC				
MOUNTING: Surface				PHASES: 3				MAINS TYPE: MLO				
ENCLOSURE: Type 1				WIRES: 4				MAINS RATING: 400 A				
FEED THRU LUGS: NO												
CKT	CIRCUIT DESCRIPTION			TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT
1	REC CORRIDOR 200			20	1	900						2
3	REC ELEC 201			20	1		360					4
5	REC ELEC 201			20	1			360				6
7	REC ELEC 201			20	1	360						8
9	REC MECH 204			20	1		720					10
11	ILP			150	2			12253				12
13	--			--	--	12253						14
15	ILP			150	2		12253					16
17	--			--	--			12253				18
19	ILP			150	2	12253						20
21	--			--	--		12253					22
23	ILP			150	2			12253	0	1	20	Spare 24
25	--			--	--	12253	0			1	20	Spare 26
27	ILP			150	2		12253	0		1	20	Spare 28
29	--			--	--			12253	0	1	20	Spare 30
31	ILP			150	2	12253	0			1	20	Spare 32
33	--			--	--		12253	0		1	20	Spare 34
35	ILP			150	2			12253	0	1	20	Spare 36
37	--			--	--	12253	0			1	20	Spare 38
39	LIGHTING			20	1		1999	0		1	20	Spare 40
41									0	1	20	Spare 42
TOTAL LOAD (VA):						62523	52089	61623				
LOAD CLASSIFICATION				CONNECTED LOAD		DEMAND FACTOR		ESTIMATED...		PANEL TOTALS		
Receptacle				174236 VA		52.87%		92118 VA		TOTAL CONNECTED LOAD... 176		
Lighting				1999 VA		125.00%		2499 VA		TOTAL DEMAND LOAD (KVA): 95		
										TOTAL CONNECTED LOAD (A): 489		
										TOTAL DEMAND LOAD (A): 263		
NOTES:												

BRANCH PANEL: E2										
SUPPLY FROM: E1				VOLTS: 120/208 Wye				A.I.C. RATING: 42 KAIC		
MOUNTING: Surface				PHASES: 3				MAINS TYPE: MLO		
ENCLOSURE: Type 1				WIRES: 4				MAINS RATING: 100 A		
FEED THRU LUGS: NO										
CKT	CIRCUIT DESCRIPTION	TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT
3	L1 - B SIDE FSDs	20	1	400						2
3	L2 - B SIDE FSDs	20	1		400					4
5	L3 - B SIDE FSDs	20	1			400				6
7	ROOF - B SIDE FSDs	20	1	400						8
9	ELEVATOR CAB LTG	20	1		500					10
11	ELEVATOR CAB LTG	20	1			500				12
13	LIGHTING	20	1	288						14
15	LIGHTING	20	1		144					16
17	LIGHTING	20	1			144				18
19										20
21										22
23							0	1	20	Spare 24
25				0				1	20	Spare 26
27					0			1	20	Spare 28
29							0	1	20	Spare 30
31				0				1	20	Spare 32
33					0			1	20	Spare 34
35							0	1	20	Spare 36
37				0				1	20	Spare 38
39					0			1	20	Spare 40
41							0	1	20	Spare 42
TOTAL LOAD (VA):				1088	1044	1044				
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED...		PANEL TOTALS		
Motor		1600 VA		106.25%		1700 VA		TOTAL CONNECTED LOAD... 3		
Lighting		1576 VA		125.00%		1970 VA		TOTAL DEMAND LOAD (KVA): 4		
								TOTAL CONNECTED LOAD (A): 9		
								TOTAL DEMAND LOAD (A): 10		
NOTES:										

BRANCH PANEL: L2B													
SUPPLY FROM: MSB-IL				VOLTS: 120/208 Wye				A.I.C. RATING: 42 KAIC					
MOUNTING: Surface				PHASES: 3				MAINS TYPE: MLO					
ENCLOSURE: Type 1				WIRES: 4				MAINS RATING: 400 A					
FEED THRU LUGS: NO													
CKT	CIRCUIT DESCRIPTION	TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT			
1	REC ELEC 209	20	1	360						2			
3	REC ELEC 209	20	1		360					4			
5	REC ELEC 209	20	1			360				6			
7	REC CORRIDOR	20	1	1440						8			
9	REC MECH 208	20	1		720					10			
11	ILP	150	2			12253				12			
13	--	--	--	12253						14			
15	ILP	150	2		12253					16			
17	--	--	--			12253				18			
19	ILP	150	2	12253						20			
21	--	--	--		12253					22			
23	ILP	150	2			12253	0	1	20	Spare 24			
25	--	--	--	12253	0			1	20	Spare 26			
27	ILP	150	2		12253	0		1	20	Spare 28			
29	--	--	--			12253	0	1	20	Spare 30			
31	ILP	150	2	12253	0			1	20	Spare 32			
33	--	--	--		12253	0		1	20	Spare 34			
35	LIGHTING	20	1			2092	0	1	20	Spare 36			
37					0			1	20	Spare 38			
39						0		1	20	Spare 40			
41							0	1	20	Spare 42			
TOTAL LOAD (VA):				50810	50090	51462							
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED...		PANEL TOTALS					
Receptacle		150270 VA		53.33%		80135 VA		TOTAL CONNECTED LOAD... 152					
Lighting		2092 VA		125.00%		2615 VA		TOTAL DEMAND LOAD (KVA): 83					
								TOTAL CONNECTED LOAD (A): 423					
								TOTAL DEMAND LOAD (A): 230					
NOTES:													

WATERFORD CAMPUS
IL BUILDING
601 UNIVERSE BLVD. JUNO BEACH, FL 33408



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ISSUED FOR
CONSTRUCTION

Project No.: 2021009
Date: 12/01/2025

ELECTRICAL
PANEL
SCHEDULES

E-501

Salas O'Brien
salasobrien.com
Atlanta
3200 Windy Hill Road, SE, Suite 200E
Atlanta, GA 30339

Project Number: 2024-03276

12/2/2025 3:38:53 PM

BRANCH PANEL: L3A													
SUPPLY FROM: MSB-IL				VOLTS: 120/208 Wye				A.I.C. RATING: 42 KAIC					
MOUNTING: Surface				PHASES: 3				MAINS TYPE: MLO					
ENCLOSURE: Type 1				WIRES: 4				MAINS RATING: 400 A					
FEED THRU LUGS: NO													
CKT	CIRCUIT DESCRIPTION	TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT			
1	REC ELEC 301	20	1	1200						2			
3	REC ELEC 301	20	1		1200					4			
5	REC MECH 304	20	1			720				6			
7	REC CORRIDOR 300	20	1	900						8			
9	ILP	150	2		12253					10			
11	--	--	--			12253				12			
13	ILP	150	2	12253						14			
15	--	--	--		12253					16			
17	ILP	150	2			12253				18			
19	--	--	--	12253						20			
21	ILP	150	2		12253					22			
23	--	--	--			12253				24			
25	ILP	150	2	12253						26			
27	--	--	--		12253	0		1	20	Spare 28			
29	ILP	150	2			12253	0	1	20	Spare 30			
31	--	--	--	12253	0			1	20	Spare 32			
33	ILP	150	2		12253	0		1	20	Spare 34			
35	--	--	--			12253	0	1	20	Spare 36			
37	LIGHTING	20	1	2029	0			1	20	Spare 38			
39					0			1	20	Spare 40			
41						0	1	20	Spare 42				
TOTAL LOAD (VA):				53139	62463	61983							
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED...		PANEL TOTALS					
Receptacle		175555 VA		52.85%		92778 VA		TOTAL CONNECTED LOAD...: 178					
Lighting		2029 VA		125.00%		2536 VA		TOTAL DEMAND LOAD (KVA): 95					
								TOTAL CONNECTED LOAD (A): 493					
								TOTAL DEMAND LOAD (A): 265					
NOTES:													

BRANCH PANEL: ERS3											
SUPPLY FROM: ERS1				VOLTS: 120/208 Wye				A.I.C. RATING: 42 KAIC			
MOUNTING: Surface				PHASES: 3				MAINS TYPE: MLO			
ENCLOSURE: Type 1				WIRES: 4				MAINS RATING: 400 A			
FEED THRU LUGS: NO											
CKT	CIRCUIT DESCRIPTION	TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT	
3	ELEVATOR 3 - B SIDE	100	3	8983						2	
5	--	--	--		8983					4	
7	ELEVATOR 4 - B SIDE	100	3	8983		8983				6	
9	--	--	--		8983					8	
11	--	--	--			8983				10	
13										12	
15										14	
17										16	
19										18	
21										20	
23										22	
25										24	
27										26	
29										28	
31										30	
33										32	
35										34	
37										36	
39										38	
41										40	
TOTAL LOAD (VA):				17966	17966	17966				42	
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED...		PANEL TOTALS			
Motor		53888 VA		112.50%		60635 VA		TOTAL CONNECTED LOAD...: 54			
								TOTAL DEMAND LOAD (KVA): 61			
								TOTAL CONNECTED LOAD (A): 150			
								TOTAL DEMAND LOAD (A): 168			
NOTES:											

Branch Panel: L3B1													
SUPPLY FROM: MSB-IL				VOLTS: 120/208 Wye				A.I.C. RATING: 42 KAIC					
MOUNTING: Surface				PHASES: 3				MAINS TYPE: MLO					
ENCLOSURE: Type 1				WIRES: 4				MAINS RATING: 800 A					
CKT	CIRCUIT DESCRIPTION	TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT			
1	DOAS-B	125	3	11808						2			
3	--	--	--		11808					4			
5	--	--	--			11808				6			
7	RTU-B	45	3	4243						8			
9	--	--	--		4243					10			
11	--	--	--			4243				12			
13	HP-1B-1	15	2	949						14			
15	--	--	--		949					16			
17	HP-2B-1	15	2			949				18			
19	--	--	--	949						20			
21	HP-3B-1	15	2		949					22			
23	--	--	--			949				24			
25	REF-B-1	20	1	50						26			
27	REF-B-2	20	1		50					28			
29	REC CORRIDOR 300	20	1			1440				30			
31	REC ELEV CON 309	20	1	1200						32			
33	REC ELEV CON 309	20	1		1200					34			
35	REC ELEV CON 309	20	1			1200				36			
37	REC MECH 308	20	1	720						38			
39	RECS ROOFTOP B	20	1		2500					40			
41	LIGHTING	20	1			2130				42			
TOTAL LOAD (VA):				19918 VA	21698 VA	22718 VA							
FEED THRU LOAD (VA):				0 VA	0 VA	0 VA							
PANEL TOTALS (VA):				19918 VA	21698 VA	22718 VA							
LOAD CLASSIFICATION		CONNECTED LOAD		DEMAND FACTOR		ESTIMATED...		PANEL TOTALS					
HVAC		53844 VA		100.00%		53844 VA		TOTAL CONNECTED LOAD...: 64					
Motor		100 VA		112.50%		113 VA		TOTAL DEMAND LOAD (KVA): 65					
Receptacle		8260 VA		100.00%		8260 VA		TOTAL CONNECTED LOAD (A): 179					
Lighting		2130 VA		125.00%		2663 VA		TOTAL DEMAND LOAD (A): 180					
NOTES:													

BRANCH PANEL: E3											
SUPPLY FROM: E1				VOLTS: 120/208 Wye				A.I.C. RATING: 42 KAIC			
MOUNTING: Surface				PHASES: 3				MAINS TYPE: MLO			
ENCLOSURE: Type 1				WIRES: 4				MAINS RATING: 100 A			
FEED THRU LUGS: NO											
CKT	CIRCUIT DESCRIPTION	TRIP	POL...	A	B	C	POL...	TRIP	CIRCUIT DESCRIPTION	CKT	
1	L3 - A SIDE FSDs	20	1	400						2	
3	L4 - A SIDE FSDs	20	1		400					4	
5	ROOF - A SIDE FSDs	20	1			400				6	
7	ELEVATOR CAB LTG	20	1	500						8	
9	ELEVATOR CAB LTG	20	1		500					10	
11	LIGHTING	20	1			144				12	
13	LIGHTING	20	1	144						14	
15										16	
17										18	
19										20	
21										22	
23						0	1	20	Spare	24	
25				0				1	20	Spare	26
27					0			1	20	Spare	28
29						0	1	20	Spare	30	
31				0				1	20	Spare	32
33					0			1	20	Spare	34
35						0	1	20	Spare	36	
37				0				1	20	Spare	38
39					0			1	20	Spare	40
41						0	1	20	Spare	42	
TOTAL LOAD (VA):				1044	900	544					
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED...		PANEL TOTALS					
Motor		1200 VA	108.33%	1300 VA		TOTAL CONNECTED LOAD... 2					
Lighting		1288 VA	125.00%	1610 VA		TOTAL DEMAND LOAD (KVA): 3					
						TOTAL CONNECTED LOAD (A): 7					
						TOTAL DEMAND LOAD (A): 8					
NOTES:											

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE - IL											
ITEM	QTY	DESCRIPTION	LOCATION	VOLTAGE/ PHASE	HP/FLA/KW/MCA	CIRCUIT BREAKER	WIRING	DISCONNECT	NOTES	CIRCUIT	
DOAS-A	1	DEDICATED OUTSIDE UNIT	ROOF A	208/3	123.8 MCA	150/3	3#10, #6G - 1-1/2"C	BY MECHANICAL	1	L4A1-1,3,5	
RTU-A	1	ROOF TOP UNIT	ROOF A	208/3	44.2 MCA	45/3	3#6, #10G - 3/4"C	BY MECHANICAL	1	L4A1-7,9,11	
DOAS-B	1	DEDICATED OUTSIDE UNIT	ROOF B	208/3	91.9 MCA	125/3	3#1, #6G - 1-1/4"C	BY MECHANICAL	1	L3B1-1,3,5	
RTU-B	1	ROOF TOP UNIT	ROOF B	208/3	44.2 MCA	45/3	3#6, #10G - 3/4"C	BY MECHANICAL	1	L3B1-7,9,11	
FCU-1A-1	1	VERTICAL FAN COIL UNIT	L1 - A SIDE	208/1	42.0 MCA	45/2	2#6, #10G - 3/4"C	MOTOR-RATED SWITCH		L1A1-1,3	
HP-1A-1	1	HEAT PUMP	ROOF A	208/1	11.4 MCA	15/2	2#12, #12G - 1/2"C	30A/2P/NF/3R		L4A1-13,15	
FCU-1A-2	1	VERTICAL FAN COIL UNIT	L1 - A SIDE	208/1	42.0 MCA	45/2	2#6, #10G - 3/4"C	MOTOR-RATED SWITCH		L1A1-5,7	
HP-1A-2	1	HEAT PUMP	ROOF A	208/1	11.4 MCA	15/2	2#12, #12G - 1/2"C	30A/2P/NF/3R		L4A1-17,19	
FCU-2A-1	1	VERTICAL FAN COIL UNIT	L1 - A SIDE	208/1	42.0 MCA	45/2	2#6, #10G - 3/4"C	MOTOR-RATED SWITCH		L1A1-9,11	
HP-2A-1	1	HEAT PUMP	ROOF A	208/1	11.4 MCA	15/2	2#12, #12G - 1/2"C	30A/2P/NF/3R		L4A1-21,23	
FCU-3A-1	1	VERTICAL FAN COIL UNIT	L1 - A SIDE	208/1	42.0 MCA	45/2	2#6, #10G - 3/4"C	MOTOR-RATED SWITCH		L1A1-13,15	
HP-3A-1	1	HEAT PUMP	ROOF A	208/1	11.4 MCA	15/2	2#12, #12G - 1/2"C	30A/2P/NF/3R		L4A1-25,27	
FCU-4A-1	1	VERTICAL FAN COIL UNIT	L1 - A SIDE	208/1	42.0 MCA	45/2	2#6, #10G - 3/4"C	MOTOR-RATED SWITCH		L1A1-17,19	
HP-4A-1	1	HEAT PUMP	ROOF A	208/1	11.4 MCA	15/2	2#12, #12G - 1/2"C	30A/2P/NF/3R		L4A1-29,31	
FCU-1B-1	1	VERTICAL FAN COIL UNIT	L1 - B SIDE	208/1	42.0 MCA	45/2	2#6, #10G - 3/4"C	MOTOR-RATED SWITCH		L1B-1,3	
HP-1B-1	1	HEAT PUMP	ROOF B	208/1	11.4 MCA	15/2	2#12, #12G - 1/2"C	30A/2P/NF/3R		L3B1-13,15	
FCU-2B-1	1	VERTICAL FAN COIL UNIT	L1 - B SIDE	208/1	42.0 MCA	45/2	2#6, #10G - 3/4"C	MOTOR-RATED SWITCH		L1B-5,7	
HP-2B-1	1	HEAT PUMP	ROOF A	208/1	11.4 MCA	15/2	2#12, #12G - 1/2"C	30A/2P/NF/3R		L3B1-17,19	
FCU-3B-1	1	VERTICAL FAN COIL UNIT	L1 - B SIDE	208/1	42.0 MCA	45/2	2#6, #10G - 3/4"C	MOTOR-RATED SWITCH		L1B-9,11	
HP-3B-1	1	HEAT PUMP	ROOF A	208/1	11.4 MCA	15/2	2#12, #12G - 1/2"C	30A/2P/NF/3R		L3B1-21,23	
REF-A-1	1	FAN	ROOF A	120/1	50 W	20/1	2#12, #12G - 1/2"C	30A/1P/NF/3R		L4A1-33	
REF-A-2	1	FAN	ROOF A	120/1	50 W	20/1	2#12, #12G - 1/2"C	30A/1P/NF/3R		L4A1-35	
REF-B-1	1	FAN	ROOF A	120/1	50 W	20/1	2#12, #12G - 1/2"C	30A/1P/NF/3R		L3B1-25	
REF-B-2	1	FAN	ROOF A	120/1	50 W	20/1	2#12, #12G - 1/2"C	30A/1P/NF/3R		L3B1-27	
EF-A-1	1	FAN	L1 - A SIDE	120/1	50 W	20/1	2#12, #12G - 1/2"C	BY MECHANICAL		L1A1-21	
EF-A-2	1	FAN	L1 - A SIDE	120/1	50 W	20/1	2#12, #12G - 1/2"C	BY MECHANICAL		L1A1-23	
FSD	4	FIRE SMOKE DAMPER	L1 - A SIDE	120/1	50 W	20/1	2#12, #12G - 1/2"C	MOTOR-RATED SWITCH	3	E1-1	
FSD	4	FIRE SMOKE DAMPER	L2 - A SIDE	120/1	50 W	20/1	2#12, #12G - 1/2"C	MOTOR-RATED SWITCH	3	E1-3	
FSD	4	FIRE SMOKE DAMPER	L3 - A SIDE	120/1	50 W	20/1	2#12, #12G - 1/2"C	MOTOR-RATED SWITCH	3	E3-1	
FSD	4	FIRE SMOKE DAMPER	L4 - A SIDE	120/1	50 W	20/1	2#12, #12G - 1/2"C	MOTOR-RATED SWITCH	3	E3-3	
FSD	2	FIRE SMOKE DAMPER	ROOF A	120/1	50 W	20/1	2#12, #12G - 1/2"C	MOTOR-RATED SWITCH	3	E3-5	
FSD	4	FIRE SMOKE DAMPER	L1 - B SIDE	120/1	50 W	20/1	2#12, #12G - 1/2"C	MOTOR-RATED SWITCH	3	E2-1	
FSD	4	FIRE SMOKE DAMPER	L2 - B SIDE	120/1	50 W	20/1	2#12, #12G - 1/2"C	MOTOR-RATED SWITCH	3	E2-3	
FSD	4	FIRE SMOKE DAMPER	L3 - B SIDE	120/1	50 W	20/1	2#12, #12G - 1/2"C	MOTOR-RATED SWITCH	3	E2-5	
FSD	4	FIRE SMOKE DAMPER	ROOF B	120/1	50 W	20/1	2#12, #12G - 1/2"C	MOTOR-RATED SWITCH	3	E2-7	
DBP-1	4	DUPLEX BOOSTER PUMP	L1 - A SIDE	208/3	(X2) 3 HP	40/3	3#8, #10G - 3/4"C	60A/3P/NF/3R		L1A1-14,16,18	
GENERAL NOTES:											
A. INSTALL OVERCURRENT PROTECTION AND BRANCH CIRCUITS PER UL LISTED REQUIREMENTS FOR EQUIPMENT SERVED. REFER TO EQUIPMENT CUT SHEETS AND MANUFACTURER'S DATA FOR ROUGH-IN LOCATIONS OF ELECTRICAL CONNECTIONS AND INTERCONNECTIONS FOR ALL EQUIPMENT. PROVIDE DISCONNECT SWITCH (NON-FUSED, UNLESS NOTED OTHERWISE). COORDINATE EXACT NAMEPLATE DATA OF EQUIPMENT TO BE USED WITH MECHANICAL CONTRACTOR. PROVIDE HACR CIRCUIT BREAKER OR FUSIBLE SWITCH FOR ALL MECHANICAL EQUIPMENT.											
NOTES:											
1. COORDINATE AND CONNECT DUCT SMOKE DETECTORS AND ASSOCIATED WIRING WHERE REQUIRED BY CODE. DETECTORS SHALL BE PROVIDED BY ELECTRICAL. INSTALLED BY MECHANICAL, AND WIRED BY ELECTRICAL.											
2. INDOOR UNIT POWERED BY OUTDOOR UNIT.											
3. INTERLOCK WITH FACP.											



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ELECTRICAL
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E-600