

GENERAL NOTES

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 PRIOR TO SUBMISSION OF BIDS FOR ADDITIONAL WORK WHICH MAY BE REQUIRED AS PART OF THE PROJECT. ALL CONFLICTS MUST 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 AND EQUIPMENT. SWITCHES SHALL BE PLACED ON LATCH SIDE OF ALL DOOR OR WINDOW OPERATIONS. IF 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. MATCHES THE ACTUAL NAMEPLATE DATA AS SUPPLIED BY THE MANUFACTURER. FULLY COORDINATE EQUIPMENT TO BE PROVIDED TO ASSURE NO ADDITIONAL COSTS TO THE CONTRACT.
4. CONDUIT HOMERUNS 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 COVERED BY THE SPECIFICATIONS WHICH COMPLEMENT THE PLANS. WORK CALLED FOR BY THE SPECIFICATIONS OR THE PLANS IS REQUIRED THE SAME AS REQUIRED BY BOTH. THERE IS NO CONFLICT 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 SIGNAL 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 THREE-ROD RIG OR DEDICATED INDEPENDENT #12 GA GALVANIZED IR WIRE. **DO NOT** SECURE ANY TYPE OF CONDUIT OR RACEWAY TO LIGHT FIXTURES OR CONSTRUCTION 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 FIRESTOPPED WITH A U.L. RECOGNIZED PRODUCT RESTORING THE INTEGRITY OF THE BARRIER PENETRATED. UTILIZE NLS-800 PUTTY TO DEVICE CONSTRUCTION PUTTY, "PSS" PIPE CHOKER SYSTEM, OR "CLK" 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 PROPER OPERATION AND DOCUMENT ALL TESTING 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 THERE IS NO 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 ADJUSTABLE SETTINGS AND FIRE RATINGS FOR ALL EQUIPMENT TO BE PROVIDED. PROVIDE REPORT INDICATING RECOMMENDED SETTINGS AND TRIP CURVES.
17. ALL ELECTRICAL EQUIPMENT SHALL BE MARKED WITH CAR 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 CONDUITS.

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

SYSTEMS INFORMATION	
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.	

POWER RECEPTACLES NOTE	
•	ALL RECEPTACLES 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.

LIGHTNING PROTECTION SYSTEM	
• 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.	

AREA OF REFUGE / TWO-WAY COMMUNICATIONS SYSTEM

PROVIDE RECEPTACLE AND DATA OUTLET FOR AREA OF REFUGE BASE STATION 18" AT LOCATION APPROVED BY AUI. 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 APPROVED BY AUI.

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

EMERGENCY RESPONDER / PUBLIC SAFETY RADIO ENHANCEMENT SYSTEM

- PROVIDE AN EMERGENCY RESPONDER / PUBLIC SAFETY RADIO ENHANCEMENT SYSTEM, ALSO KNOWN AS BDA / 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 24.13.8.
- COORDINATE WITH THE CITY OF JUNO BEACH INFORMATION TECHNOLOGY DEPARTMENT, JUNO BEACH DEPARTMENT OF CONSTRUCTION AND 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.

VOICE/ALARM COMMUNICATION SYSTEM 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.

SMOKE DETECTOR / CARBON MONOXIDE DETECTORS

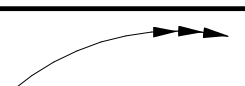
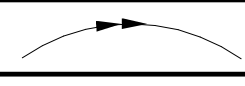
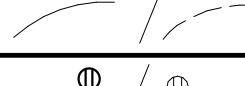
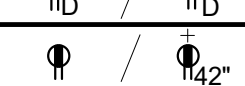
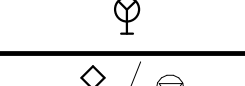
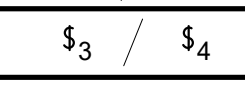
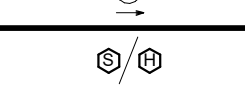
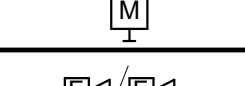
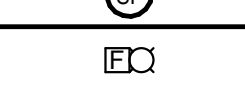
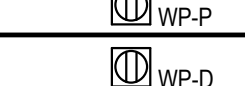
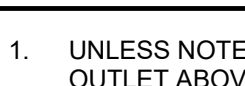
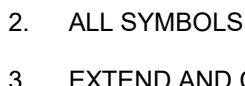
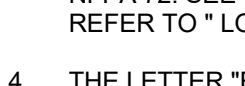
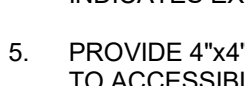
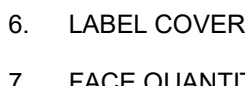
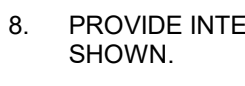
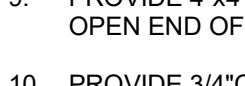
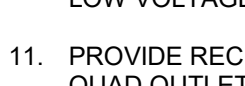
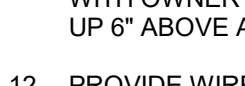
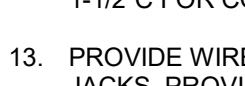
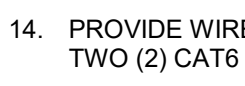
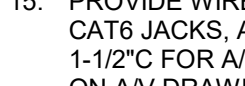
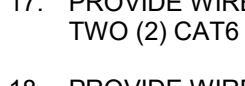
ALL PUBLIC AREAS AND RESIDENTIAL UNITS TO HAVE FULLY ADDRESSABLE SMOKE DETECTOR / CARBON MONOXIDE DETECTOR COVERAGE.

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.

LOW FREQUENCY FIRE ALARM DEVICES ALL FIRE ALARM DEVICES IN SLEEPING UNITS SHALL BE LOW FREQUENCY (520 HZ) TYPE.
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AUTO DOOR OPERATORS PROVIDE POWER FROM LOCAL NON-DEDICATED 120V CIRCUIT TO MOTORIZED DOORS WHERE INDICATED BY ARCHITECTURAL DRAWINGS. REFER TO LOW VOLTAGE DRAWINGS FOR ADDITIONAL SCOPE.

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

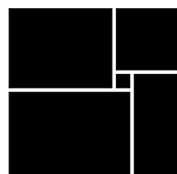
ELECTRICAL SYMBOL LEGEND		
SYMBOL	DESCRIPTION	MTG HT UNO
	ARROWHEAD INDICATES HOMERUN. X-1, 3, AND 5 ADJACENT TO HOMERUN ARROWHEADS INDICATES HOMERUN TO PANEL X, CIRCUIT NUMBERS 1, 3, AND 5.	
	INDICATES CIRCUIT CONTINUATION OF CIRCUITS 3 AND 5 OF PANEL X.	
	MARKS ACROSS RACEWAY SYMBOLS INDICATE THE NUMBER 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"
	QUADRUPLEX 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"

LEGEND NOTES:

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"x4" UP TO 6'H x 6"W x 4"D JBOX IN ACCESSIBLE CEILING. COORDINATE EXACT REQUIREMENTS WITH LOW VOLTAGE DRAWING.
11. PROVIDE RECESSED 4-GANG TV BOX (ARLINGTON #7B5613) FOR WALL MOUNTED TELEVISION. PROVIDE (1) QUAD OUTLET, (1) DATACABLE 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 STUBBED UP 6" ABOVE ACCESSIBLE CEILING WITH INSULATED BUSHING WHERE REQUIRED.
12. PROVIDE WIREMOLD AFFRATIC SERIES WITH BARRIERED RACEWAY, CONDUIT ADAPTER AND 3/4" FOR POWER, 1-1/2" FOR COMMUNICATIONS.
13. PROVIDE WIREMOLD RFB8-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 BAT 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 BAT 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, AND 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 AT4 POKE-THRU WITH DUPLEX RECEPTACLE. PROVIDE 3/4" FOR POWER.
17. PROVIDE WIREMOLD EVOLUTION SERIES AT4T 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.

APPLICABLE CODES, CYCLES, AND CLASSIFICATIONS	
• 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 LIST	
SHEET NUMBER	SHEET NAME
E-001	ELECTRICAL GENERAL - IL
E-002	LIGHTING GENERAL - IL
E-100	ELECTRICAL SITE PLAN
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 FOURTH FLOOR - 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 - IL
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

[illegible]

THW
DESIGN

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PRELIMINARY DRAWINGS.
NOT TO BE USED FOR
RECORDING,
IMPLEMENTATION,
REGULATORY APPROVAL,
PERMITTING, OR
CONSTRUCTION.

DESIGN DEVELOPMENT

Project No.: 2021009
Date: 08/22/2025

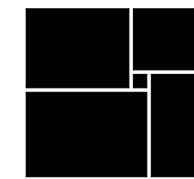
ELECTRICAL GENERAL - IL

E-001

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Project Number: 2024-03276

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DESIGN

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DESIGN DEVELOPMENT

Project No.: 2021009
Date: 08/22/2025

LIGHTING GENERAL

E-002

LIGHTING CONTROL LEGEND		
SYMBOL	DESCRIPTION	MTG (LINO)
\$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 WATTSTOPPER #DW-311-W	46"
\$	AREAS AND ROOMS WHERE A CEILING MOUNTED SENSOR IS USED: LOW VOLTAGE DIMMING WALL SWITCH WATTSTOPPER #LMDM-101 (SINGLE, 3-WAY, 4-WAY APPLICATIONS)	46"
\$	AREAS THAT ARE TIMECLOCK CONTROLLED: LOW VOLTAGE DIMMING WALL SWITCH WATTSTOPPER #LMDM-101 (SINGLE, 3-WAY, 4-WAY APPLICATIONS) WATTSTOPPER #LMRC-210 DIMMING ROOM CONTROLLER (0-10V DIMMING/DAYLIGHT) WATTSTOPPER #LMRC-220 DIMMING ROOM CONTROLLER (FORWARD PHASE DIMMING/DAYLIGHT)	
\$DV	LOW VOLTAGE OVERRIDE SWITCH WATTSTOPPER #LVSIV-101 (PROVIDE RELAY FOR CONTROL)	46"
	CORRIDORS:	
⊗	NON-DIMMING LOADS: WATTSTOPPER #WT-2250 ULTRASONIC (90' CORRIDOR COVERAGE) TWO WAY CEILING SENSOR WATTSTOPPER #BZ-50 POWER PACK	
	DIMMING LOADS: WATTSTOPPER #LMUC-100 ULTRASONIC (59' CORRIDOR COVERAGE) TWO WAY CEILING SENSOR WATTSTOPPER #LMRC-111 DIMMING ROOM CONTROLLER	
	ALL OTHER LOCATIONS:	
⊗	NON-DIMMING LOADS: WATTSTOPPER #DT-300 DUAL TECH (18" RADIUS, 36x36" COVERAGE) TWO WAY CEILING SENSOR WATTSTOPPER #BZ-200 POWER PACK (LIGHTING AND PLUG LOADS)	
	DIMMING LOADS: WATTSTOPPER #LMDC-100 DUAL TECH (18" RADIUS, 32x32" COVERAGE) TWO WAY CEILING SENSOR WATTSTOPPER #LMRC-210 DIMMING ROOM CONTROLLER (0-10V DIMMING/DAYLIGHT) WATTSTOPPER #LMRC-220 DIMMING ROOM CONTROLLER (FORWARD PHASE DIMMING/DAYLIGHT)	
⊗	WATTSTOPPER #MLS-500 CEILING PHOTO SENSOR	
GENERAL NOTES:		
1. ABOVE SYSTEM IS BASIS OF DESIGN. CONTRACTOR TO SUBMIT AN EQUIVALENT SYSTEM THAT MEETS THE CRITERIA OF THE LIGHTING CONTROL NARRATIVE.		
1. COORDINATE QUANTITY AND LOCATION OF SENSORS, SWITCHPACKS, AND/OR ROOM CONTROLLERS WITH MANUFACTURER'S FACTORY REPRESENTATIVE.		
2. COORDINATE QUANTITY AND LOCATION OF ROOM CONTROLLERS AND SWITCHPACKS WITH MANUFACTURER'S FACTORY REPRESENTATIVE.		
3. PROVIDE SUBMITTAL LAYOUT DRAWINGS FROM SUCCESSFUL BIDDER.		
4. OCCUPANCY SENSOR LOCATIONS SHOWN ON THE LIGHTING DRAWINGS.		
5. QUANTITIES AND LOCATIONS OF SWITCHPACKS AND/OR ROOM CONTROLLERS SHALL BE DETERMINED BY THE CONTRACTOR FOR A COMPLETE AND OPERABLE SYSTEM.		
6. ALL NEW LED FIXTURES SHALL BE PROVIDED WITH 0-10V DIMMING. CONTROL DEVICES SHALL BE COMPATIBLE.		
OCCUPANCY SENSOR NOTES:		
1. OCCUPANCY SENSOR CONTROLS SHALL BE MANUAL ON (VACANCY MODE) OR CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING ON TO NOT MORE THAN 50% OUTPUT, UNLESS NOTED OTHERWISE.		
2. PROVIDE ROOM CONTROLLER(S) CAPABLE OF RECEIVING INPUT FROM SWITCH AND OCCUPANCY SENSOR.		
3. ALL SENSORS SHALL BE SET AT THE CODE-MAXIMUM SETTING OF 20 MINUTES. DISABLE AUTO ADAPTING TIME DELAY, WHERE APPLICABLE.		
4. ALL ENCLOSED OFFICES AND ROOMS SHALL HAVE OCCUPANCY SENSOR COVERAGE.		
5. ALL SENSOR WALL SWITCHES SHALL FUNCTION AS VACANCY SENSORS (MANUAL-ON, AUTO-OFF).		
6. DEVICES TO BE SHIPPED FROM THE FACTORY WITH THE CORRECT TIME DELAY (20 MINUTES) AND VACANCY MODE SETTINGS.		
DAYLIGHTING CONTROL NOTES:		
1. PROVIDE A ROOM CONTROLLER CAPABLE OF ACCEPTING INPUT FROM SWITCH, OCCUPANCY SENSORS AND PHOTOSENSOR.		
2. 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.		
3. PHOTOSENSOR SHALL CONTROL FIXTURES INDICATED BY LOWERCASE LETTER ON DRAWINGS.		
4. 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 C408.3 (ASHRAE 94.3). AUTOMATIC LIGHT REDUCTIONS CONTROLS (VIA OCCUPANCY SENSORS AND/OR TIME-SWITCH CONTROLS) DAYLIGHT RESPONSIVE CONTROLS SHALL BE TESTED AS REQUIRED. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO CERTIFY THAT THE INSTALLED LIGHTING CONTROLS MEET THE REQUIREMENTS OF IECC C405 (ASHRAE 94.3).		



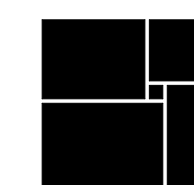
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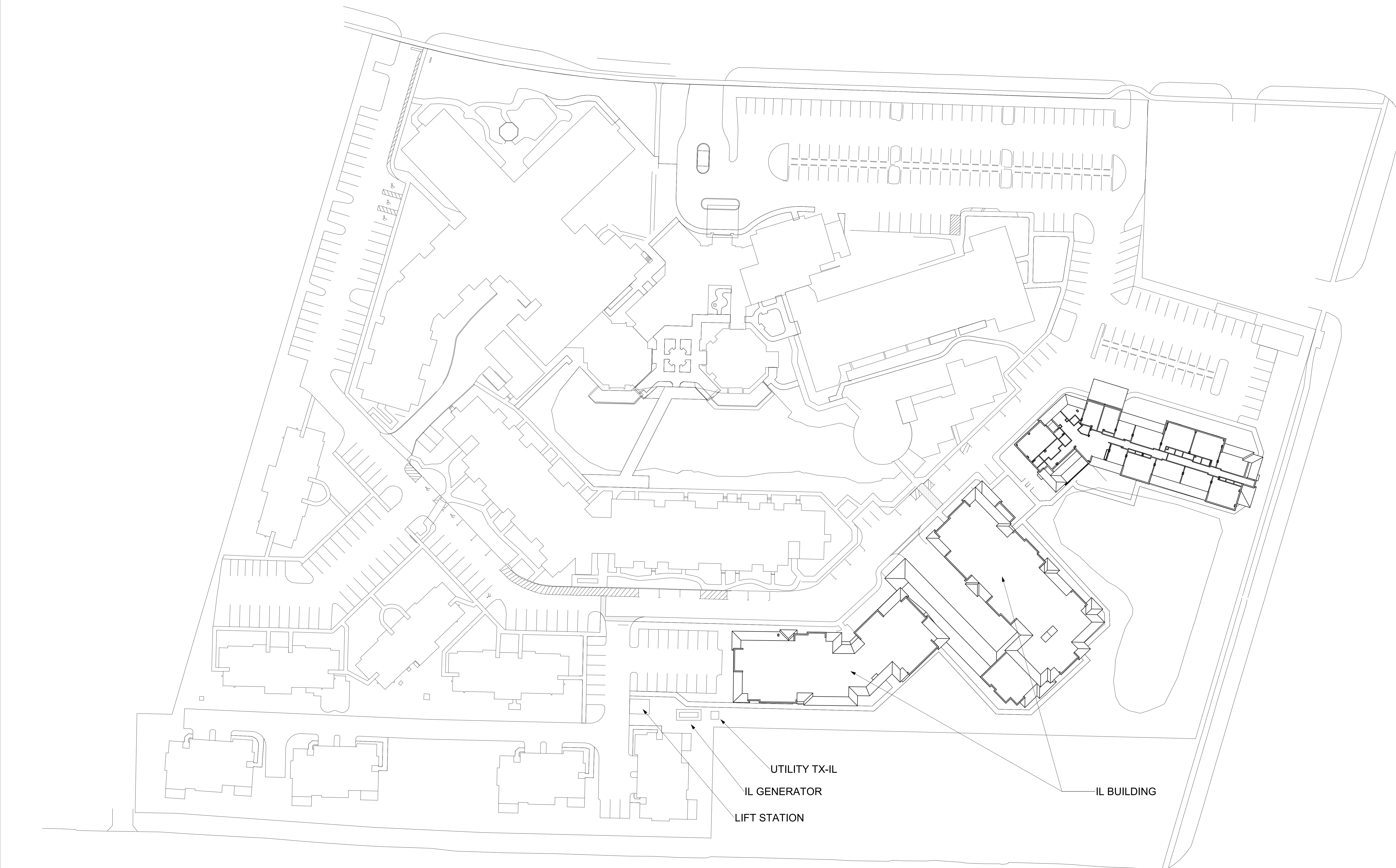
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ELECTRICAL SITE PLAN

E-100



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

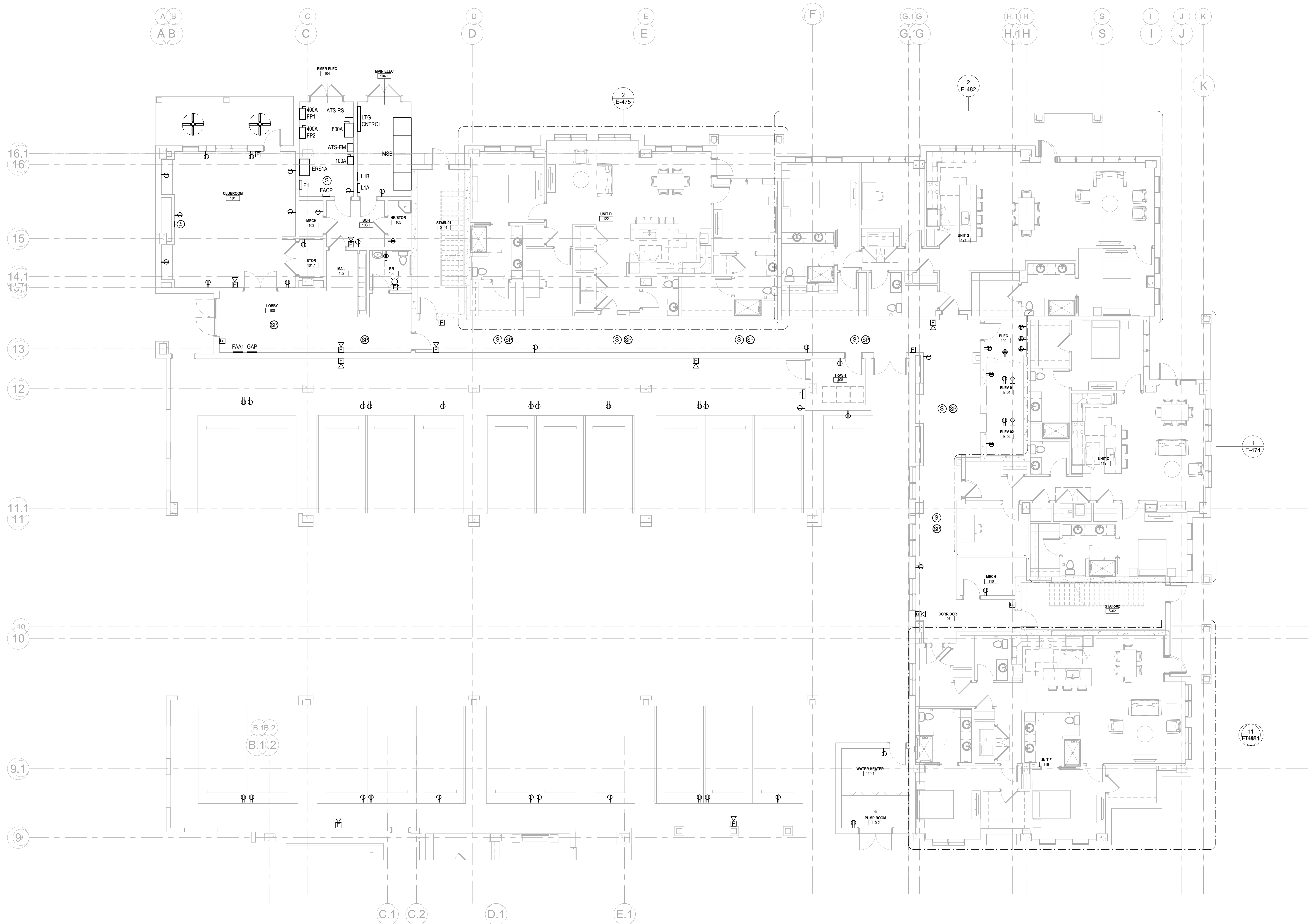


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1 ELECTRICAL FIRST FLOOR - AREA A
E-141A 1/8" = 1'-0"

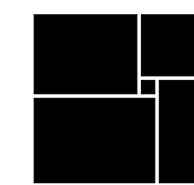


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ELECTRICAL
FIRST FLOOR -
AREA A

E-141A

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



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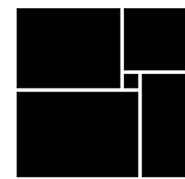
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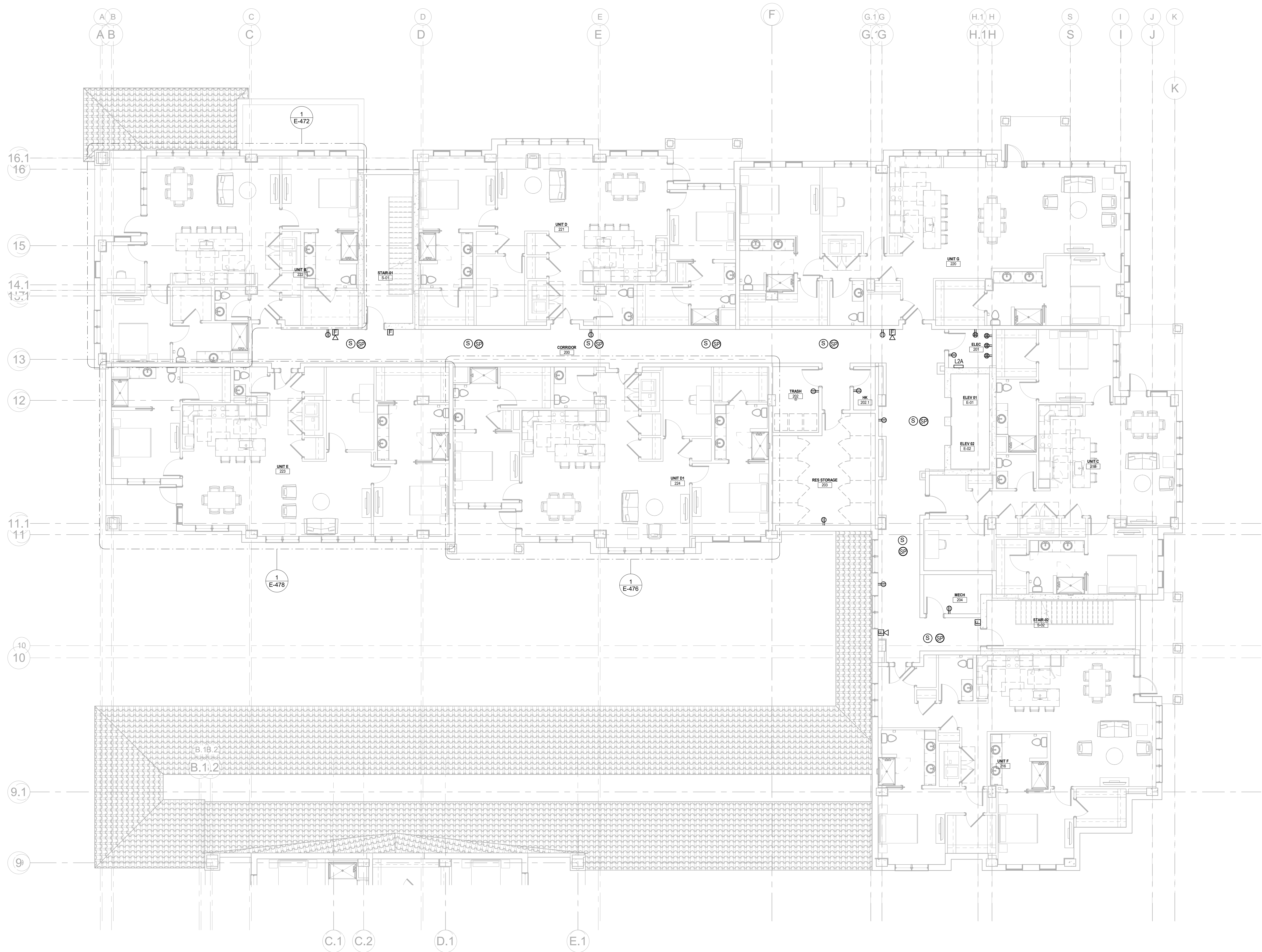
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**ELECTRICAL
FIRST FLOOR -
AREA B**

E-141B

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

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**ELECTRICAL
SECOND
FLOOR - AREA
A**

E-142A

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



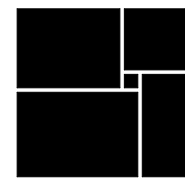
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ELECTRICAL
SECOND
FLOOR - AREA
B

E-142B

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

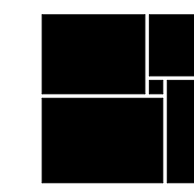
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**ELECTRICAL
THIRD FLOOR
- AREA A**

E-143A

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

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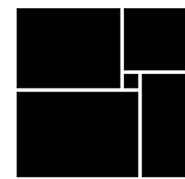
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**ELECTRICAL
THIRD FLOOR
- AREA B**

E-143B

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

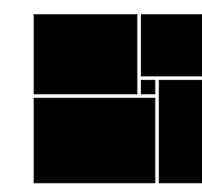
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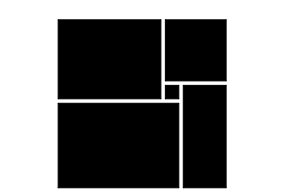
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**ELECTRICAL
FOURTH
FLOOR - AREA
A**

E-144A

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**ELECTRICAL
ROOF - AREA
B**

E-144B

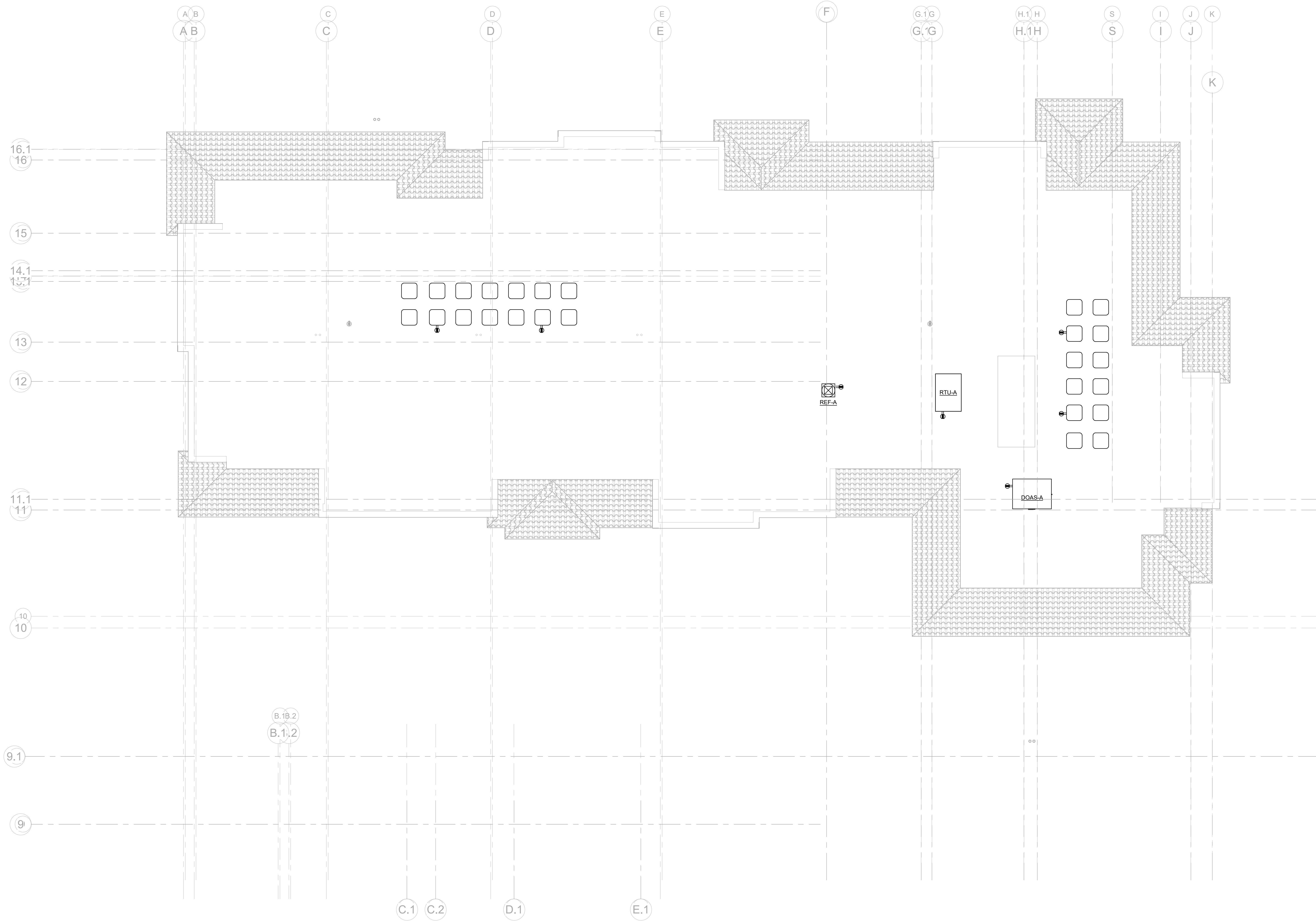
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1 ELECTRICAL ROOF - AREA A
E-145A 1/8" = 1'-0"

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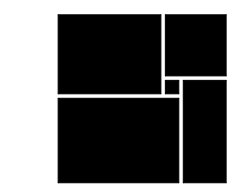
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**ELECTRICAL
ROOF - AREA
A**

E-145A

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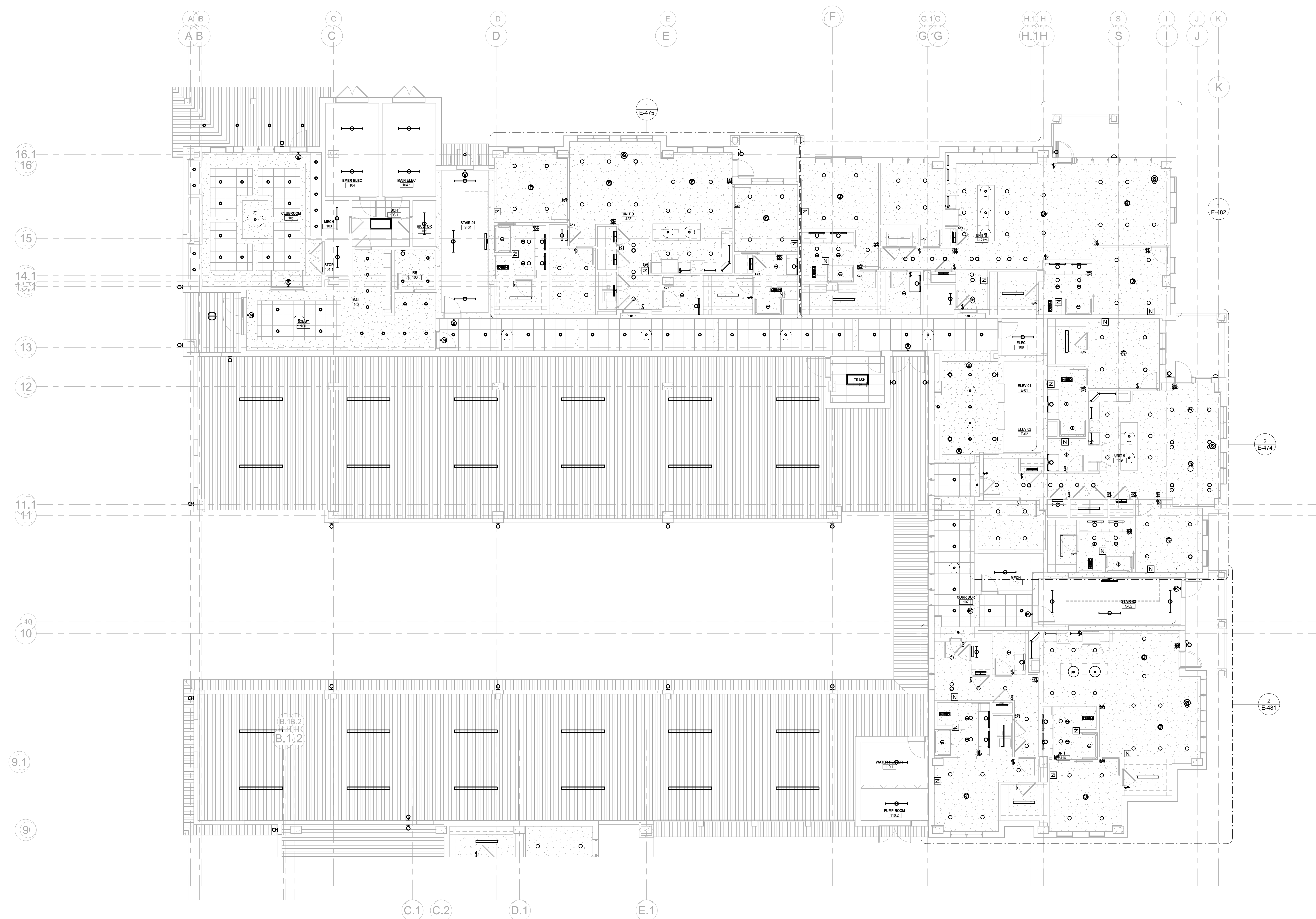
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LIGHTING FIRST FLOOR - AREA A

E-241A



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



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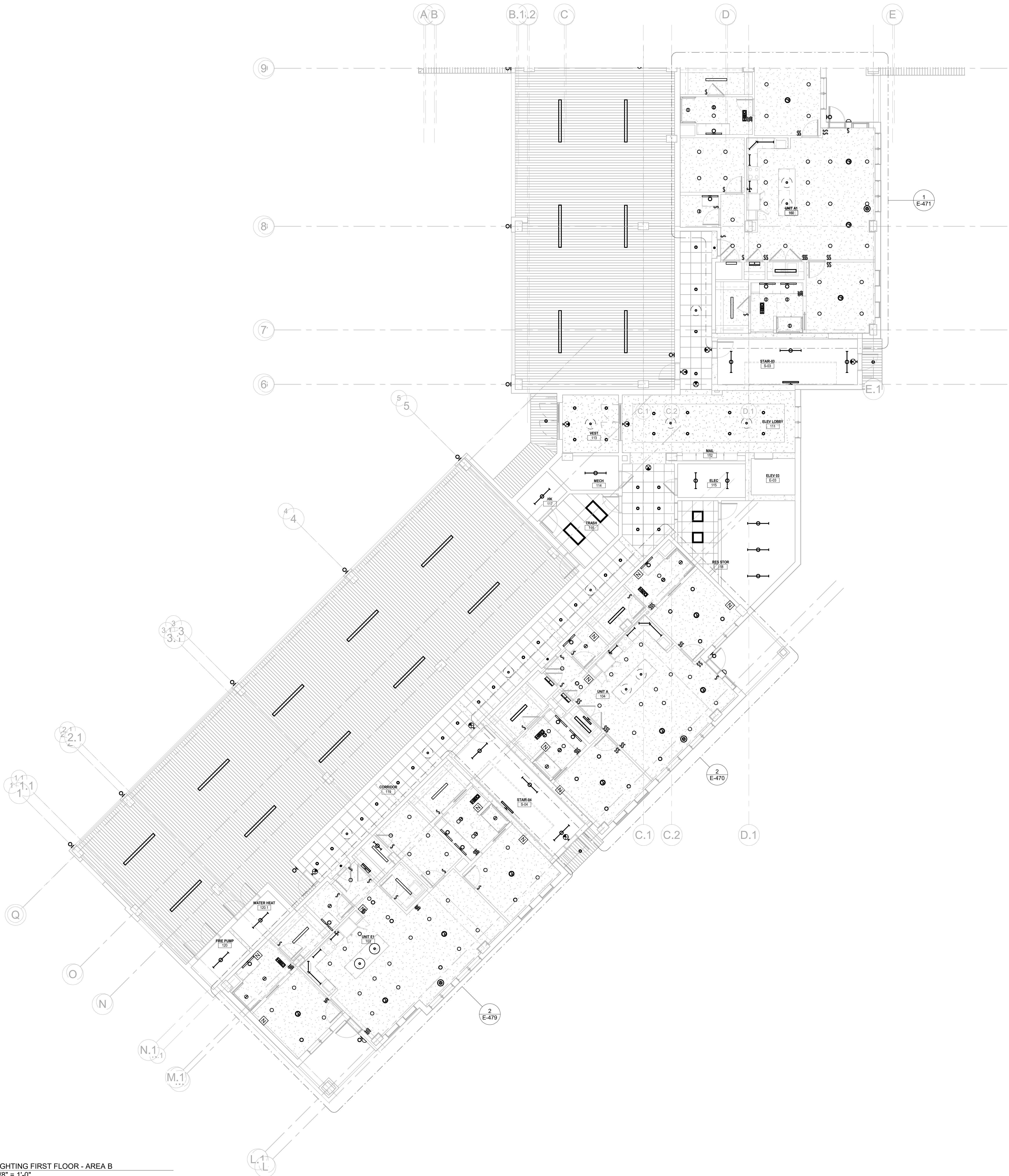
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1 LIGHTING FIRST FLOOR - AREA B
E-241B 1/8" = 1'-0"



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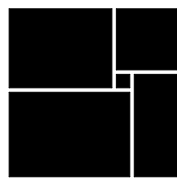
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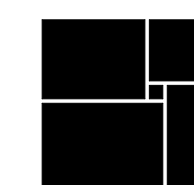
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**LIGHTING
FIRST FLOOR -
AREA B**

E-241B

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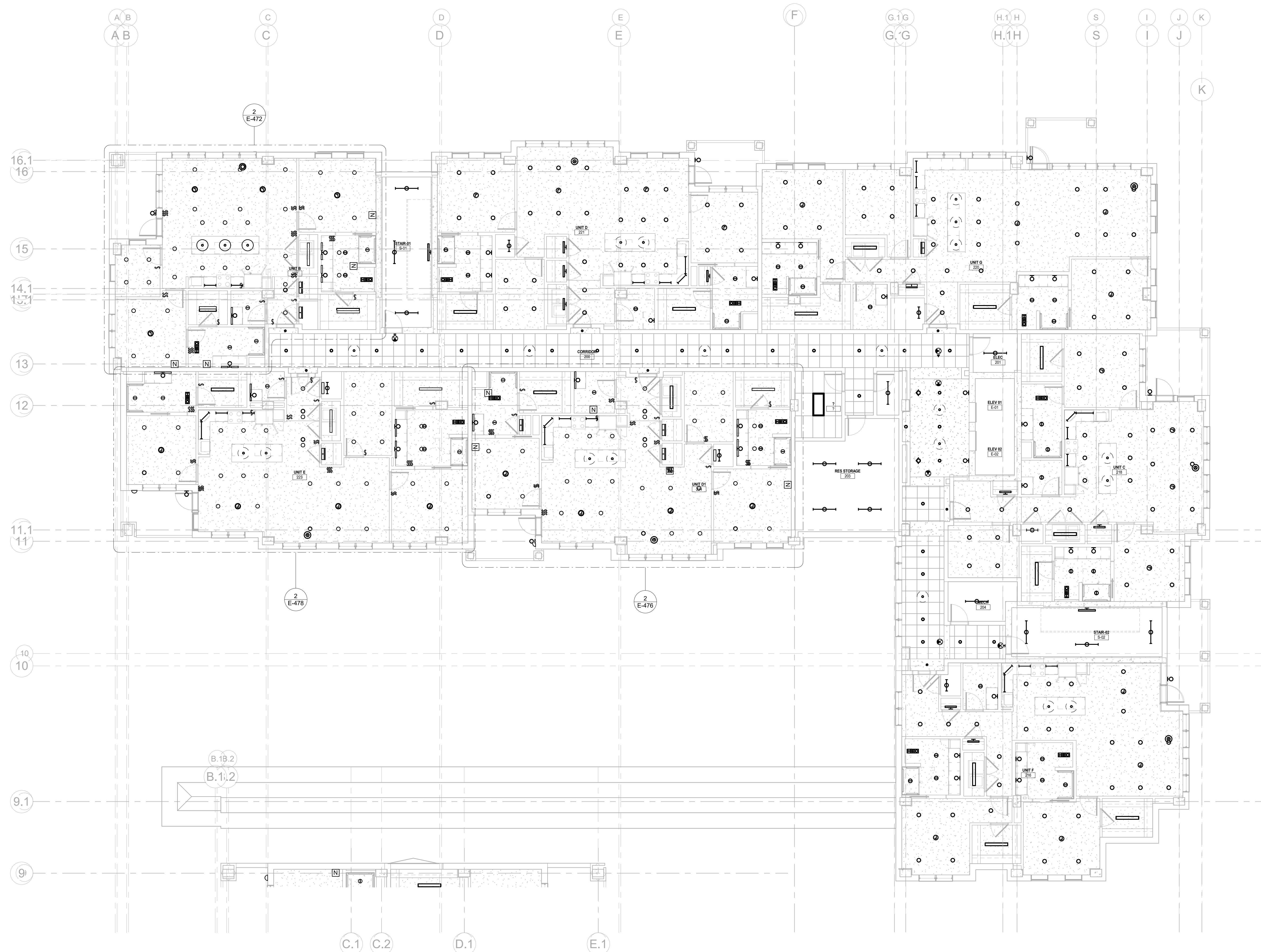
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**LIGHTING
SECOND
FLOOR - AREA
A**

E-242A



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



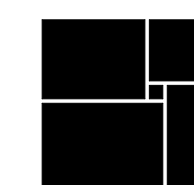
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**LIGHTING
SECOND
FLOOR - AREA
B**

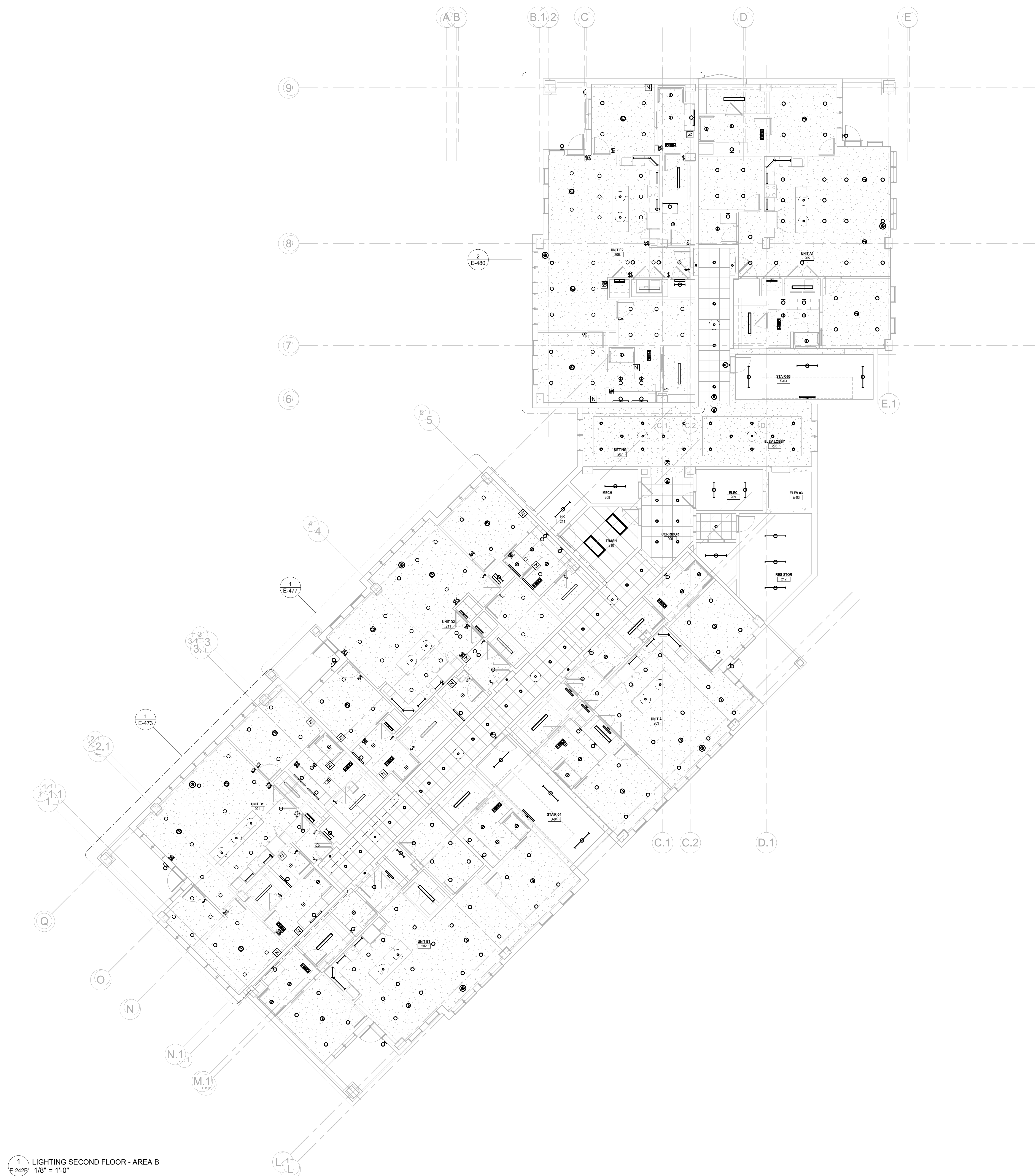
E-242B



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Project Number: 2024-03276

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

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NO.	DATE	DESCRIPTION

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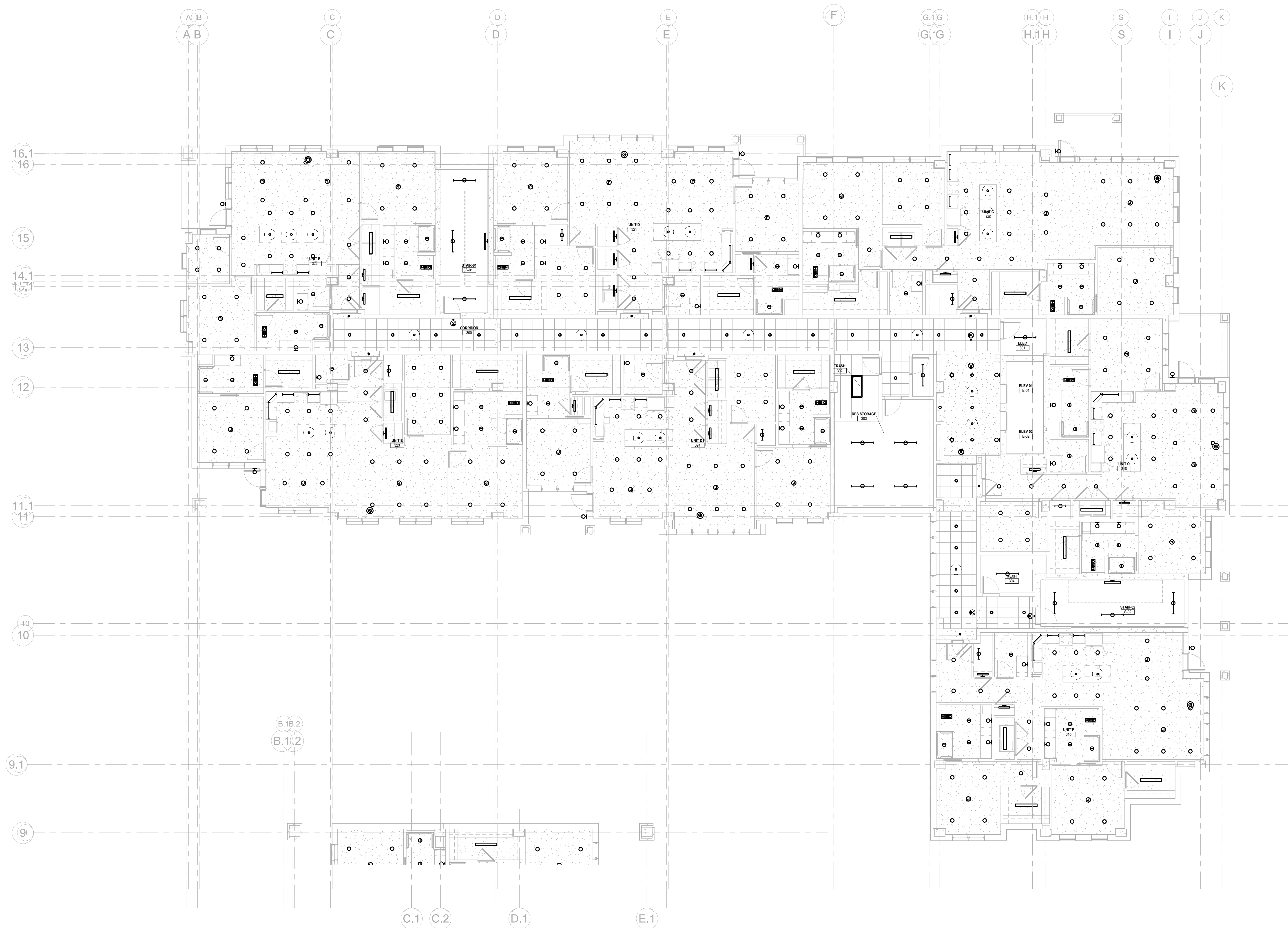
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Project No.: 202100
Date: 08/22/202

**LIGHTING
THIRD FLOOR
- AREA A**

E-243A



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

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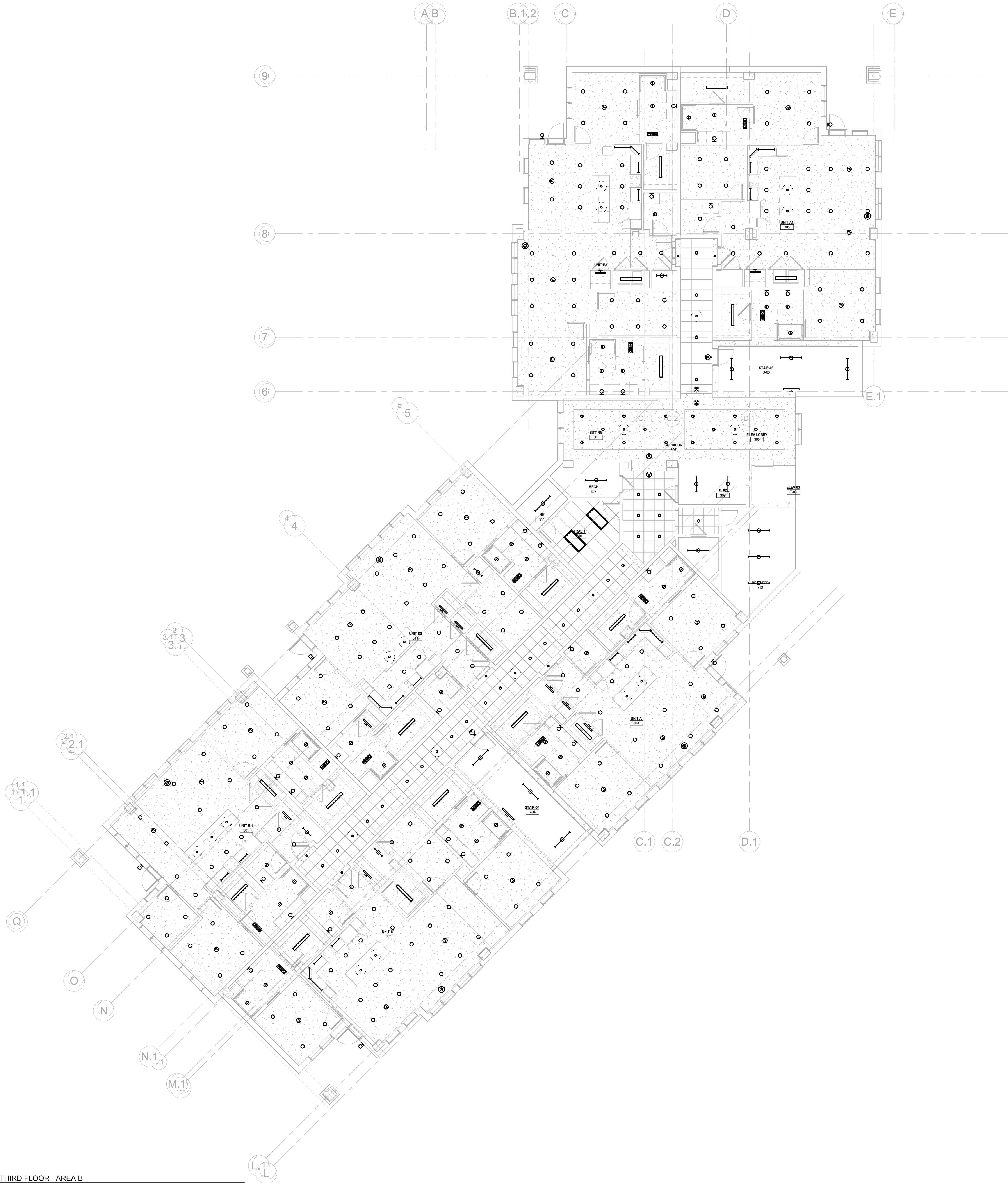
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1 LIGHTING THIRD FLOOR - AREA B
E-243B 1/8" = 1'-0"



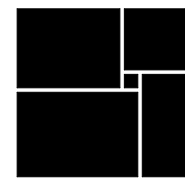
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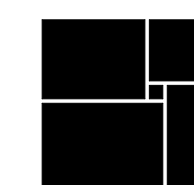
Project No.: 2021009
Date: 08/22/2025

**LIGHTING
THIRD FLOOR
- AREA B**

E-243B

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**LIGHTING
FOURTH
FLOOR - AREA
A**

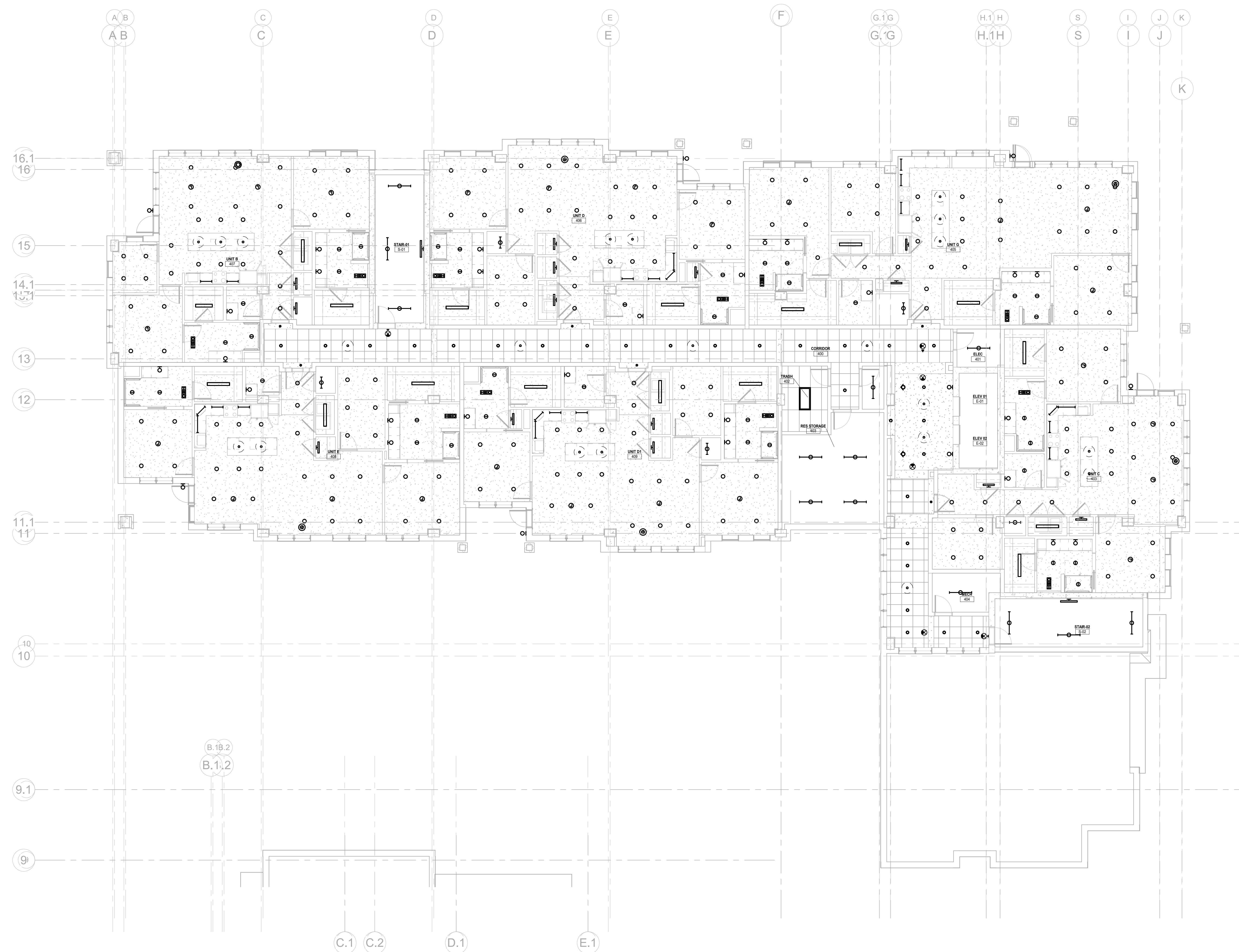
E-244A



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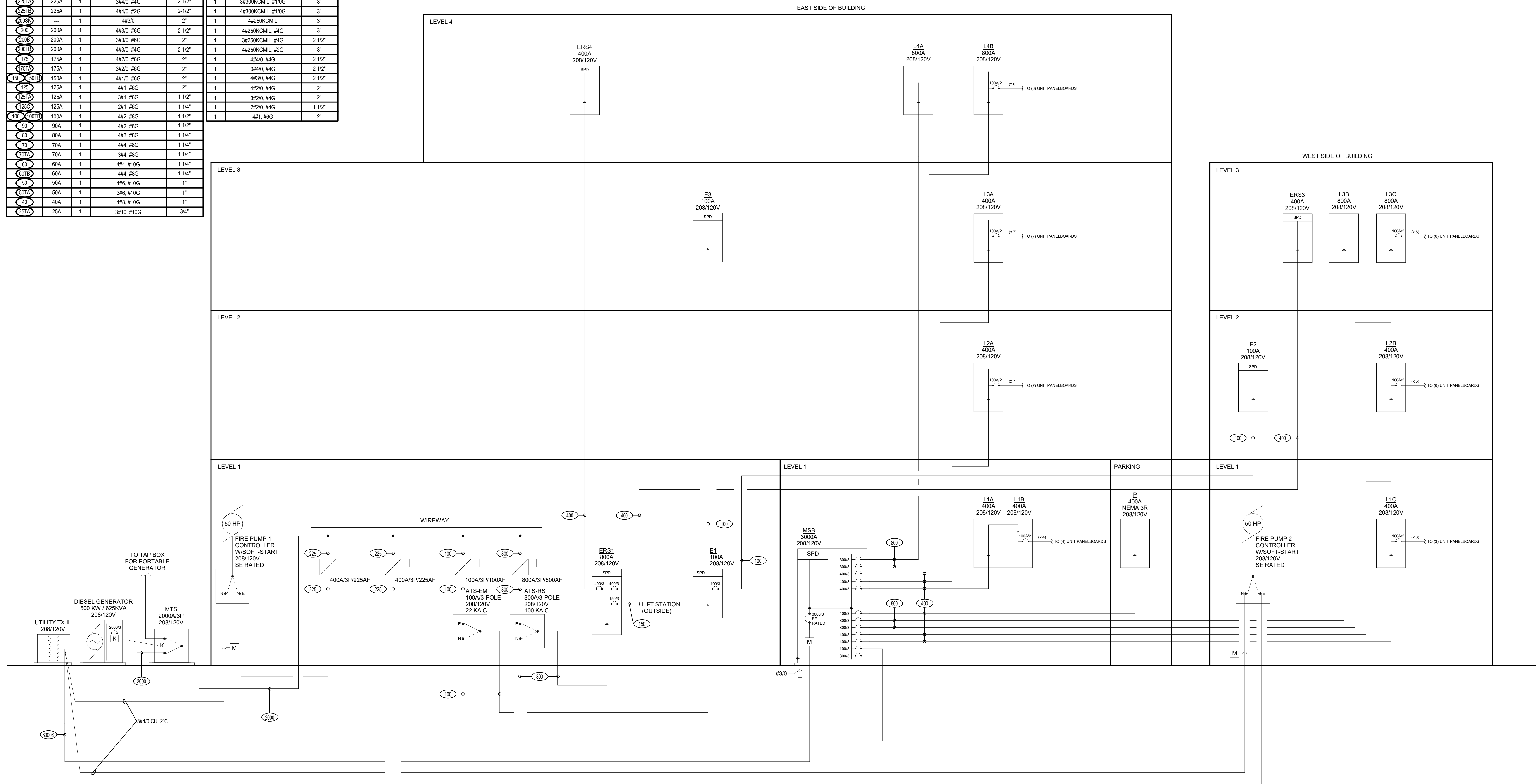


1 LIGHTING FOURTH FLOOR - AREA A
E-244A 1/8" = 1'-0"

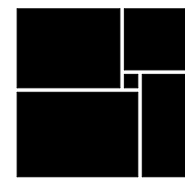
ALL UNDERGROUND CONDUIT SHALL BE PVC 40 UNLESS NOTED OTHERWISE.

FEEDER SCHEDULE - COPPER					FEEDER SCHEDULE - ALUMINUM				
SYMBOL	CIRCUIT BREAKER	NO. OF POLES	WIRE & GROUND	CONDUIT	NO. OF SETS	WIRE & GROUND	CONDUIT		
3000S	4000A	11	4#500KCML	4"	12	4#600KCML	4"		
3000S	3000A	8	4#500KCML	3-1/2"	9	4#600KCML	4"		
3000	3000A	8	4#500KCML, #400KCML/G	3-1/2"	9	4#600KCML, #500KCML/G	4"		
2500S	2500A	7	4#500KCML	3-1/2"	8	4#600KCML	4"		
2500	2500A	7	4#500KCML, #350KCML/G	3-1/2"	8	4#600KCML, #500KCML/G	4"		
2000S	2000A	6	4#400KCML	3-1/2"	7	4#500KCML	3-1/2"		
2000	2000A	6	4#400KCML, #250 KCML/G	3-1/2"	7	4#500KCML, #400KCML/G	3-1/2"		
1600S	1600A	5	4#400KCML	3-1/2"	6	4#400KCML	3-1/2"		
1600	1600A	5	4#400KCML, #40G	3-1/2"	6	4#400KCML, #350KCML/G	3-1/2"		
1200S	1200A	4	4#350KCML	3"	4	4#500KCML	3-1/2"		
1200	1200A	4	4#350KCML, #30G	3"	4	4#500KCML, #250KCML/G	3-1/2"		
1000S	1000A	3	4#400KCML	3-1/2"	3	4#600KCML	4"		
1000	1000A	3	4#400KCML, #20G	3-1/2"	3	4#600KCML, #40G	4"		
1000TS	1000A	3	4#400KCML, #30G	3-1/2"	3	4#600KCML, #250KCML/G	4"		
800	800A	3	4#300KCML, #10G	3"	3	4#400KCML, #30G	3-1/2"		
600TB	800A	3	4#300KCML, #20G	3"	3	4#400KCML, #40G	3-1/2"		
700	700A	2	4#500KCML, #10G	3-1/2"	3	4#350KCML, #30G	3"		
600S	600A	2	4#350KCML	3"	2	4#500KCML	3-1/2"		
600TS	---	2	4#350KCML	3"	2	4#500KCML	3-1/2"		
600	600A	2	4#350KCML, #1G	3"	2	4#500KCML, #20G	3-1/2"		
500	500A	2	4#250KCML, #2G	3"	2	4#350KCML, #10G	3"		
500TB	500A	2	4#250KCML, #10G	3"	2	4#350KCML, #30G	3"		
450	450A	2	4#40, 2#G	2-1/2"	2	4#300KCML, #10G	3"		
450TA	450A	2	3#40, 2#G	2-1/2"	2	3#300KCML, #10G	3"		
400	400A	2	4#30, #3G	2 1/2"	2	4#250KCML, #1G	3"		
400TB	400A	2	4#30, #2G	2 1/2"	2	4#250KCML, #10G	3"		
350S	350A	1	4#500, #3G	3 1/2"	2	4#40, #1G	2 1/2"		
350TA	350A	1	3#500, #3G	3 1/2"	2	3#40, #1G	2 1/2"		
300S	300A	1	4#350	3"	1	4#500KCML	3-1/2"		
300	300A	1	4#350, #4G	3"	1	4#500KCML, #2G	3-1/2"		
300S	---	1	4#350, #4G	3"	1	4#500KCML	3-1/2"		
250	250A	1	4#250, #4G	3"	1	4#350KCML, #2G	3"		
225	225A	1	4#40, #4G	2-1/2"	1	4#300KCML, #25	3"		
225TB	225A	1	3#40, #4G	2-1/2"	1	3#300KCML, #10G	3"		
225TB	225A	1	4#40, #2G	2-1/2"	1	4#300KCML, #10G	3"		
200S	---	1	4#30	2"	1	4#250KCML	3"		
200	200A	1	4#30, #6G	2 1/2"	1	4#250KCML, #4G	3"		
200TB	200A	1	3#30, #6G	2"	1	3#250KCML, #4G	2 1/2"		
200TB	200A	1	4#30, #4G	2 1/2"	1	4#250KCML, #2G	3"		
175	175A	1	4#20, #6G	2"	1	4#40, #4G	2 1/2"		
175TB	175A	1	3#20, #6G	2"	1	3#40, #4G	2 1/2"		
125	125A	1	4#10, #6G	2"	1	4#30, #4G	2 1/2"		
125	125A	1	4#1, #6G	2"	1	4#20, #4G	2"		
125TB	125A	1	3#1, #6G	1 1/2"	1	3#20, #4G	2"		
125S	125A	1	2#1, #6G	1 1/4"	1	2#20, #4G	1 1/2"		
100	100TB	100A	4#2, #6G	1 1/2"	1	4#1, #6G	2"		
80	90A	1	4#2, #6G	1 1/2"					
80	80A	1	4#3, #6G	1 1/4"					
70	70A	1	4#4, #6G	1 1/4"					
70TA	70A	1	3#4, #6G	1 1/4"					
60	60A	1	4#4, #10G	1 1/4"					
60TB	60A	1	4#4, #6G	1 1/4"					
50	50A	1	4#6, #10G	1"					
50TA	50A	1	3#6, #10G	1"					
40	40A	1	4#8, #10G	1"					
25TA	25A	1	3#10, #10G	3/4"					

LEVEL 3

[illegible]

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ELECTRICAL RISER - IL

E-300

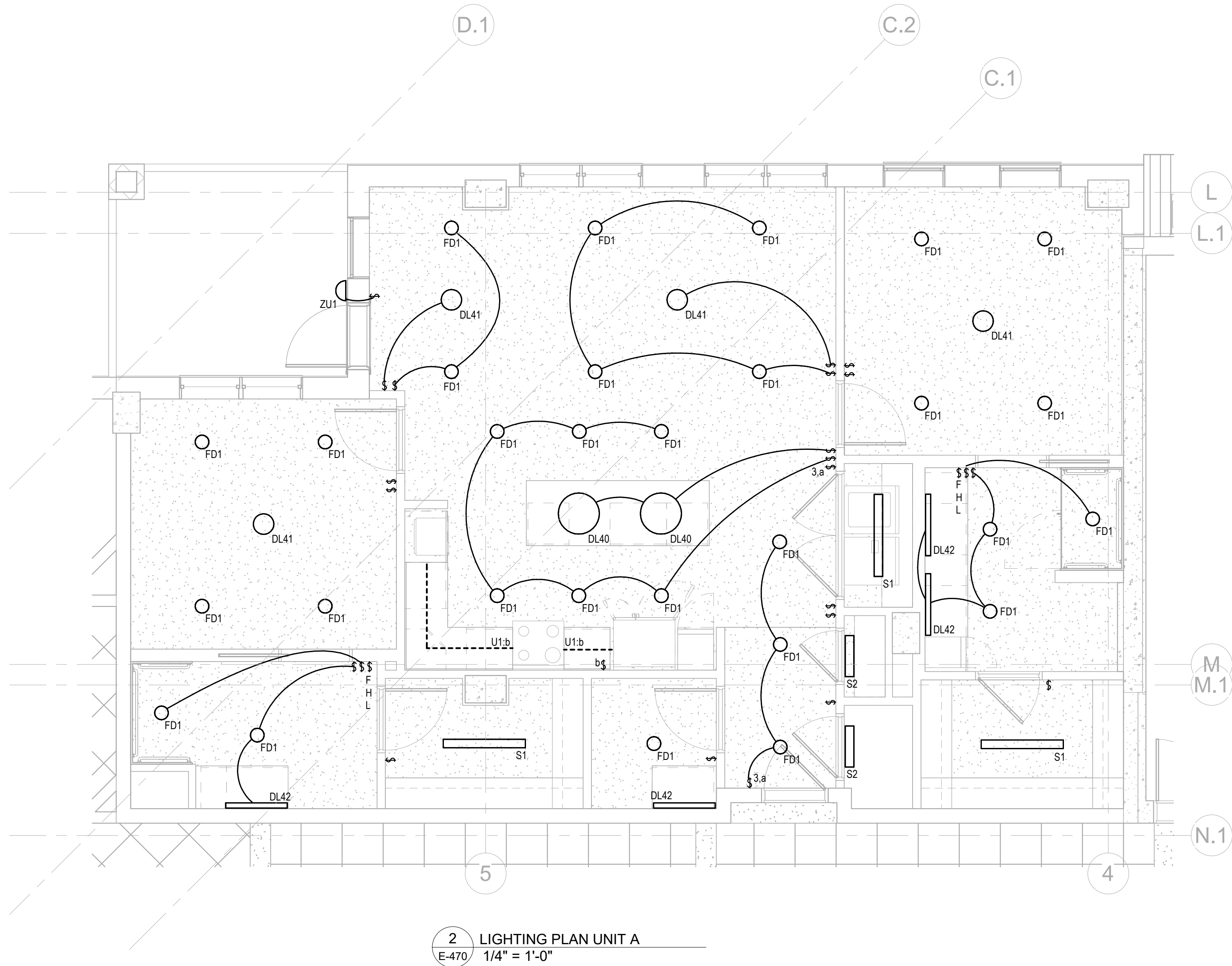


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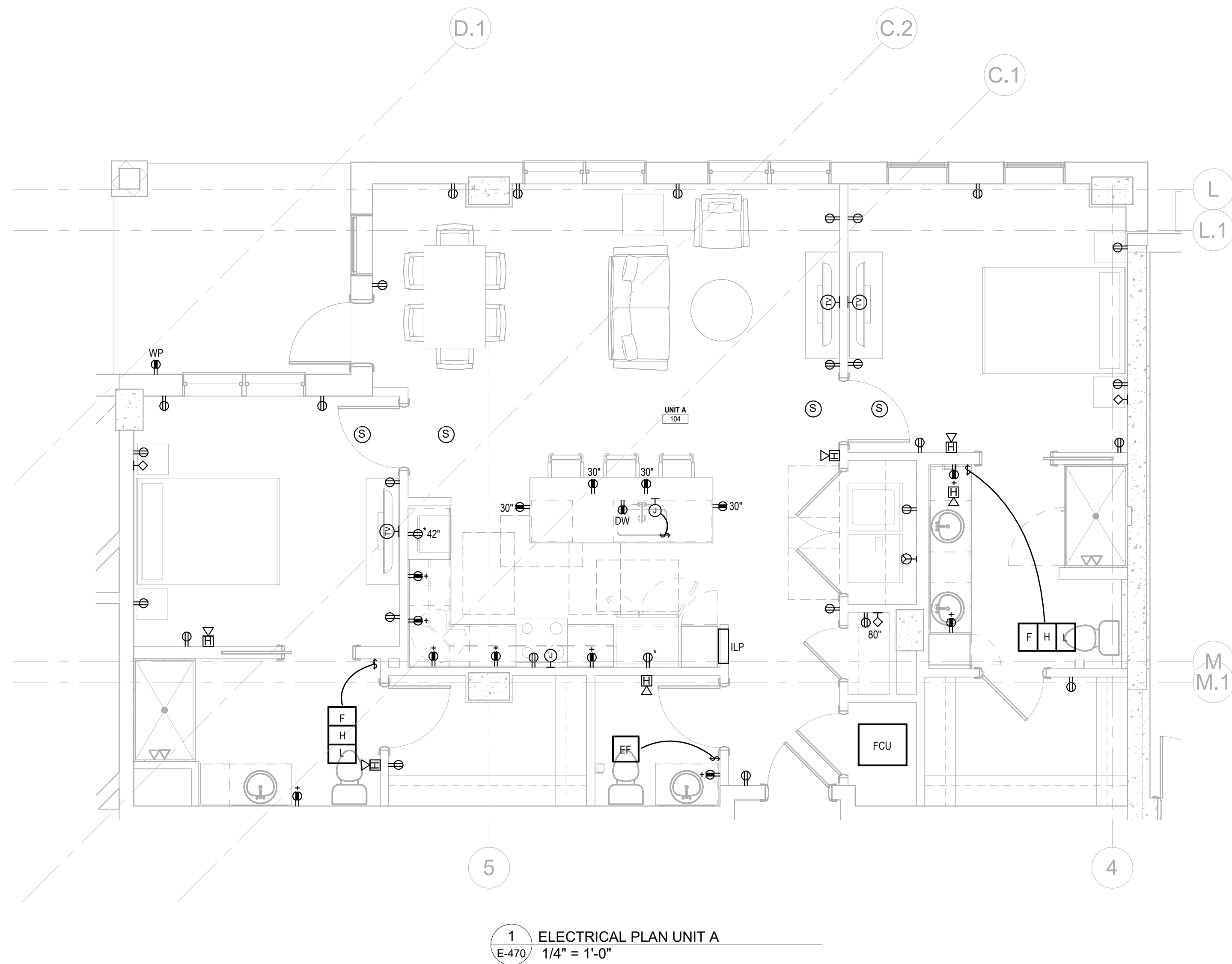
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2 LIGHTING PLAN UNIT A
E-470 1/4" = 1'-0"



1 ELECTRICAL PLAN UNIT A
E-470 1/4" = 1'-0"

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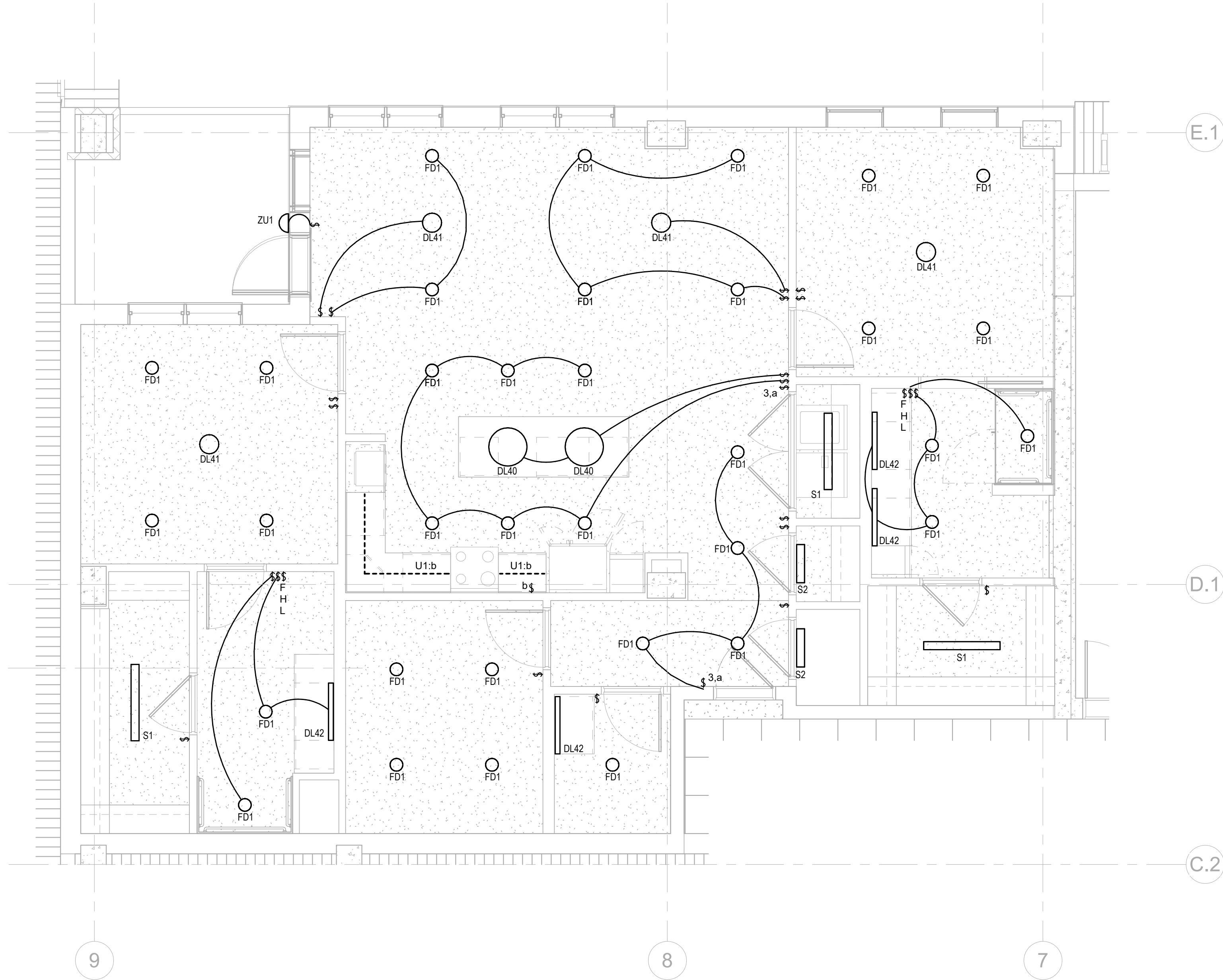
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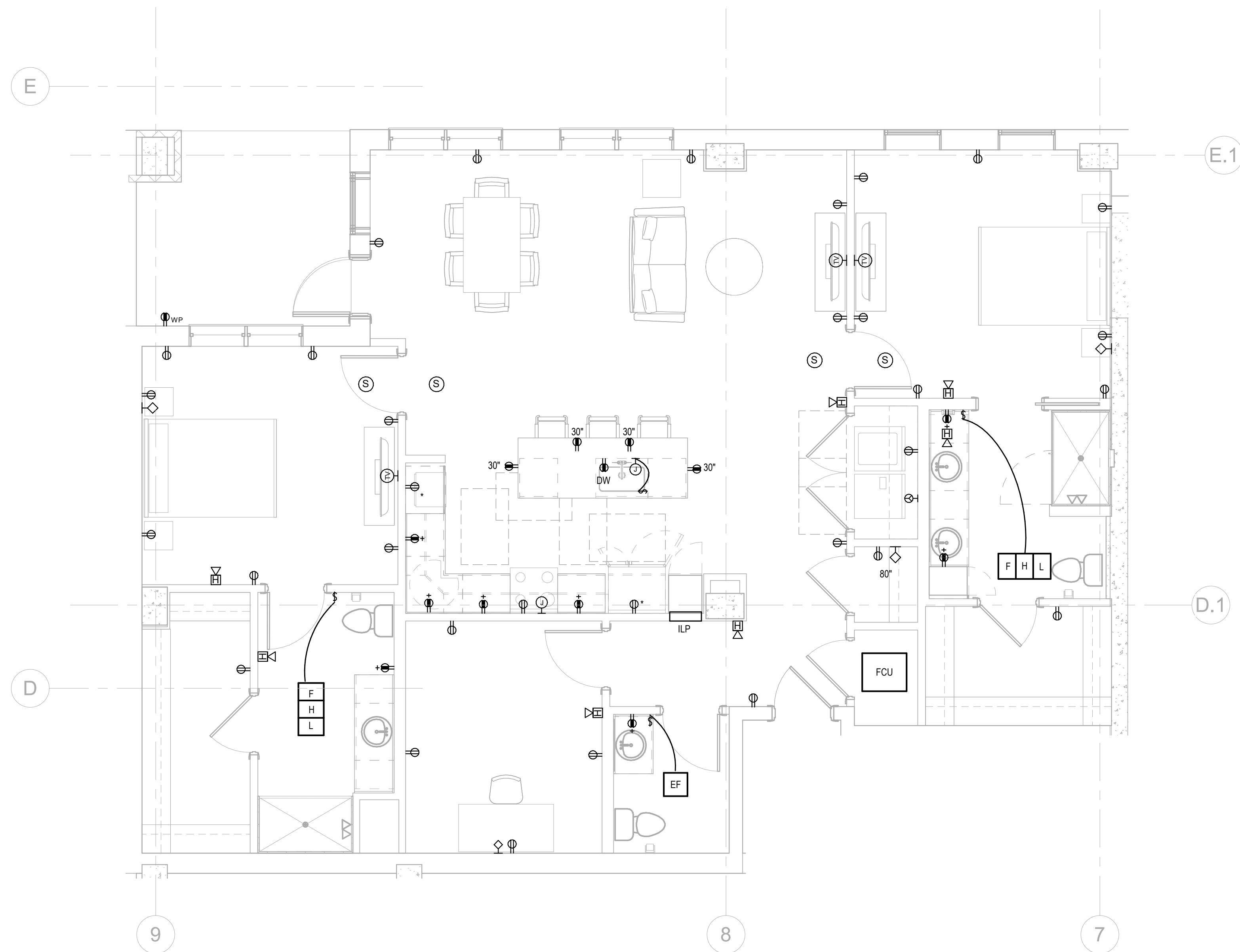
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**ELECTRICAL -
UNIT A**

E-470



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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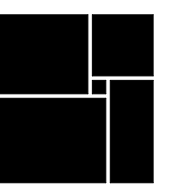
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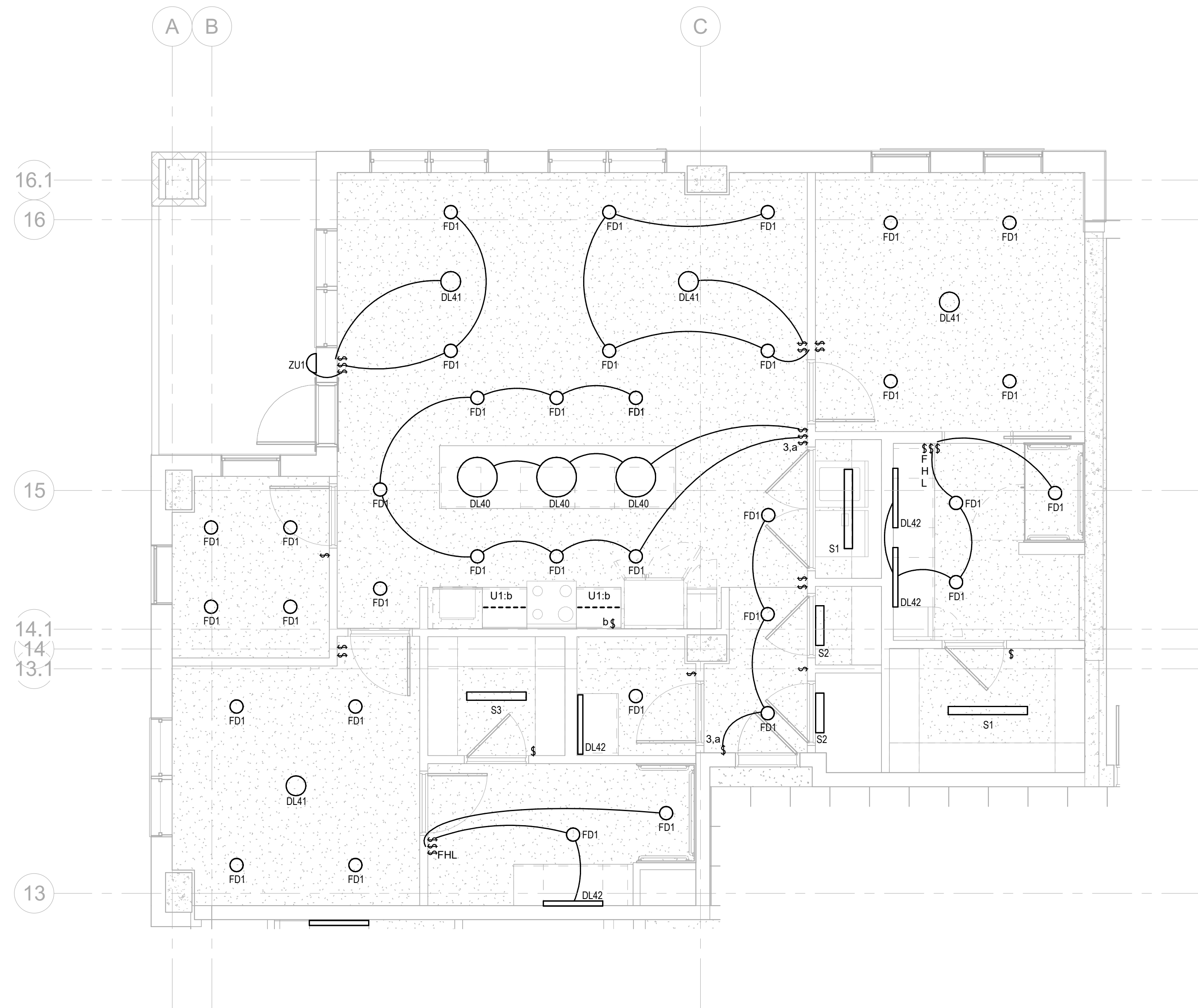
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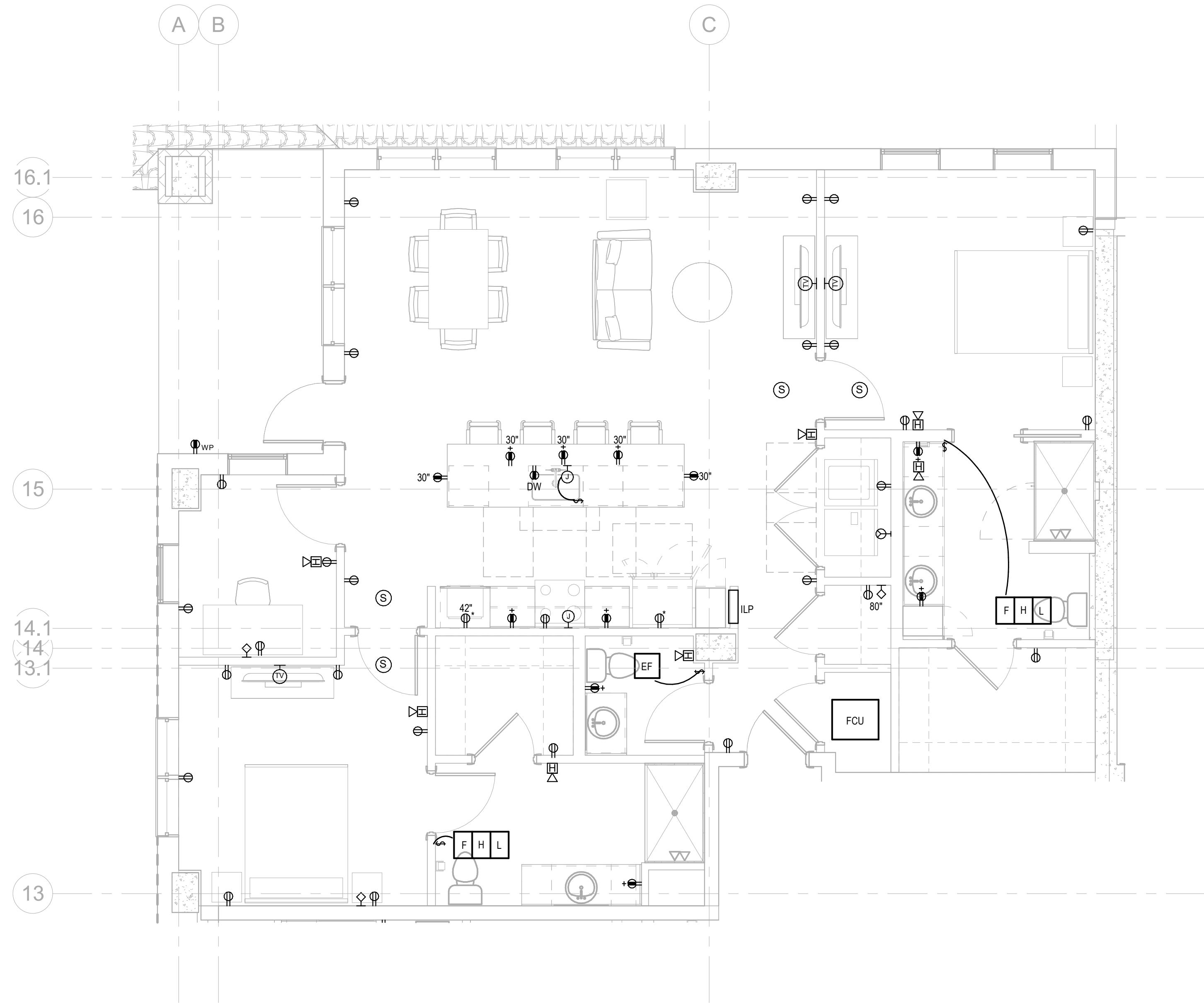
**ELECTRICAL -
UNIT A1**

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"

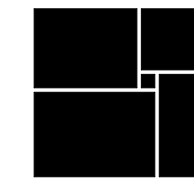
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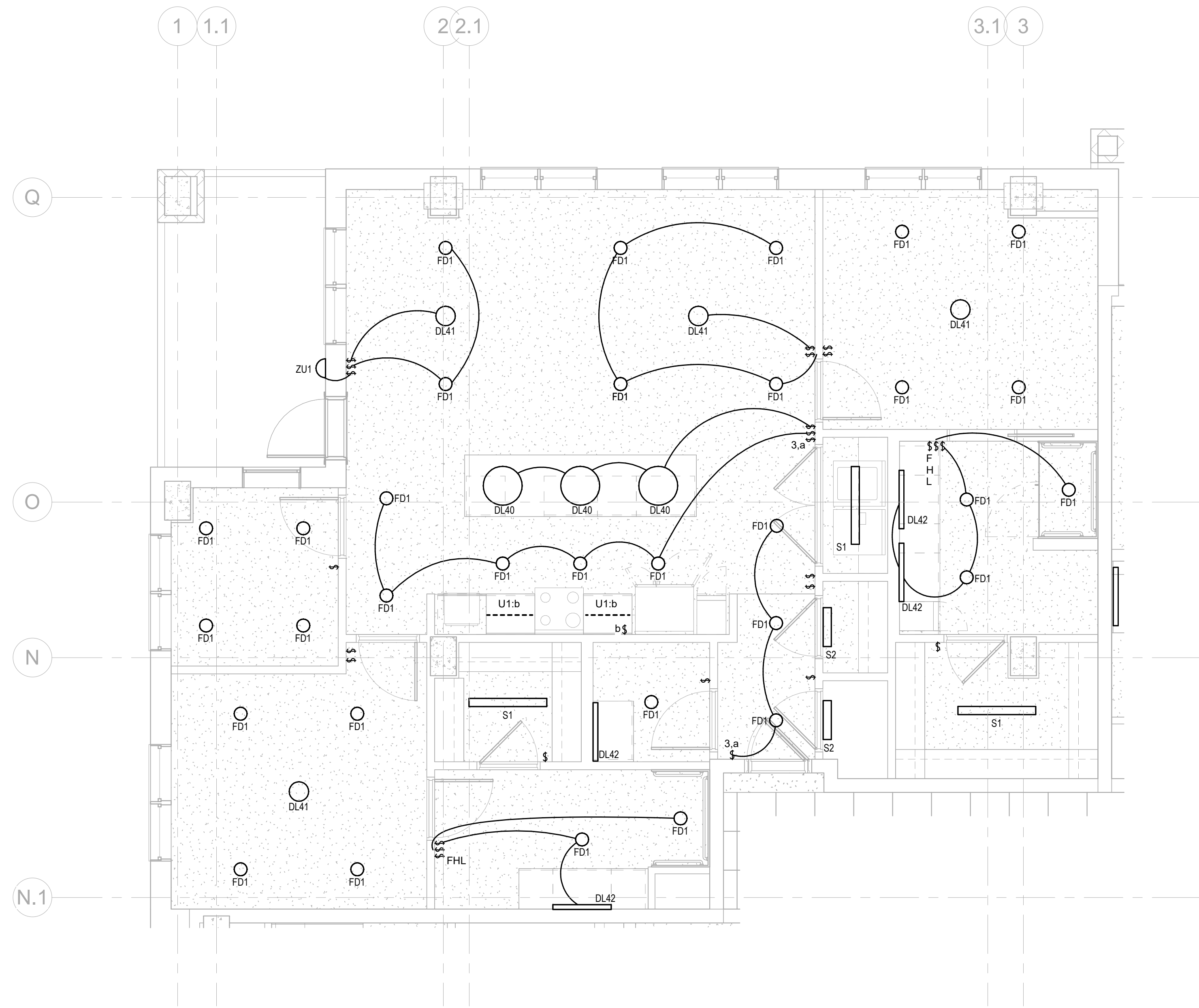
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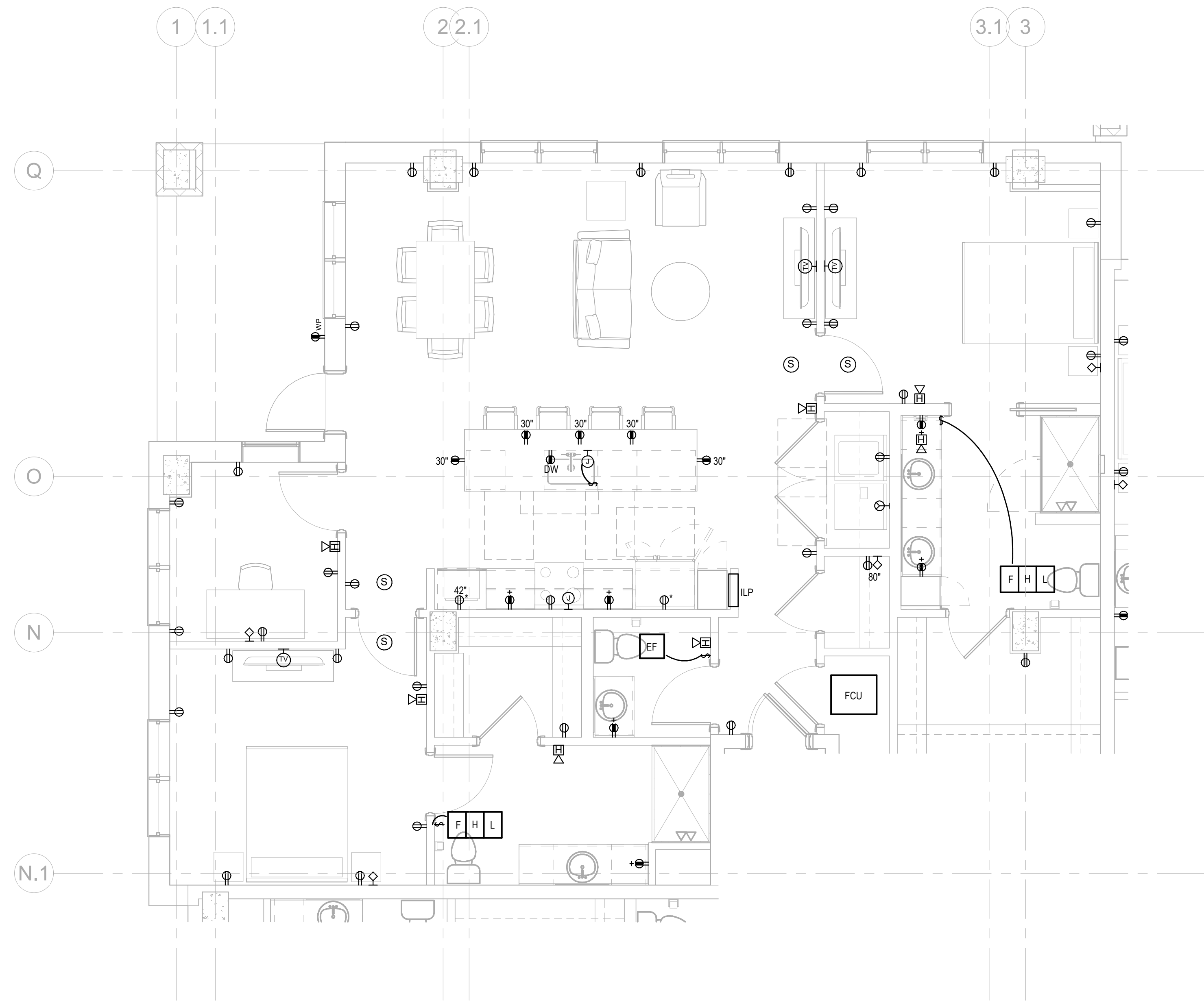
**ELECTRICAL -
UNIT B**

E-472

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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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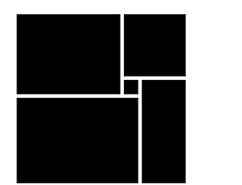
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**ELECTRICAL -
UNIT B1**

E-473

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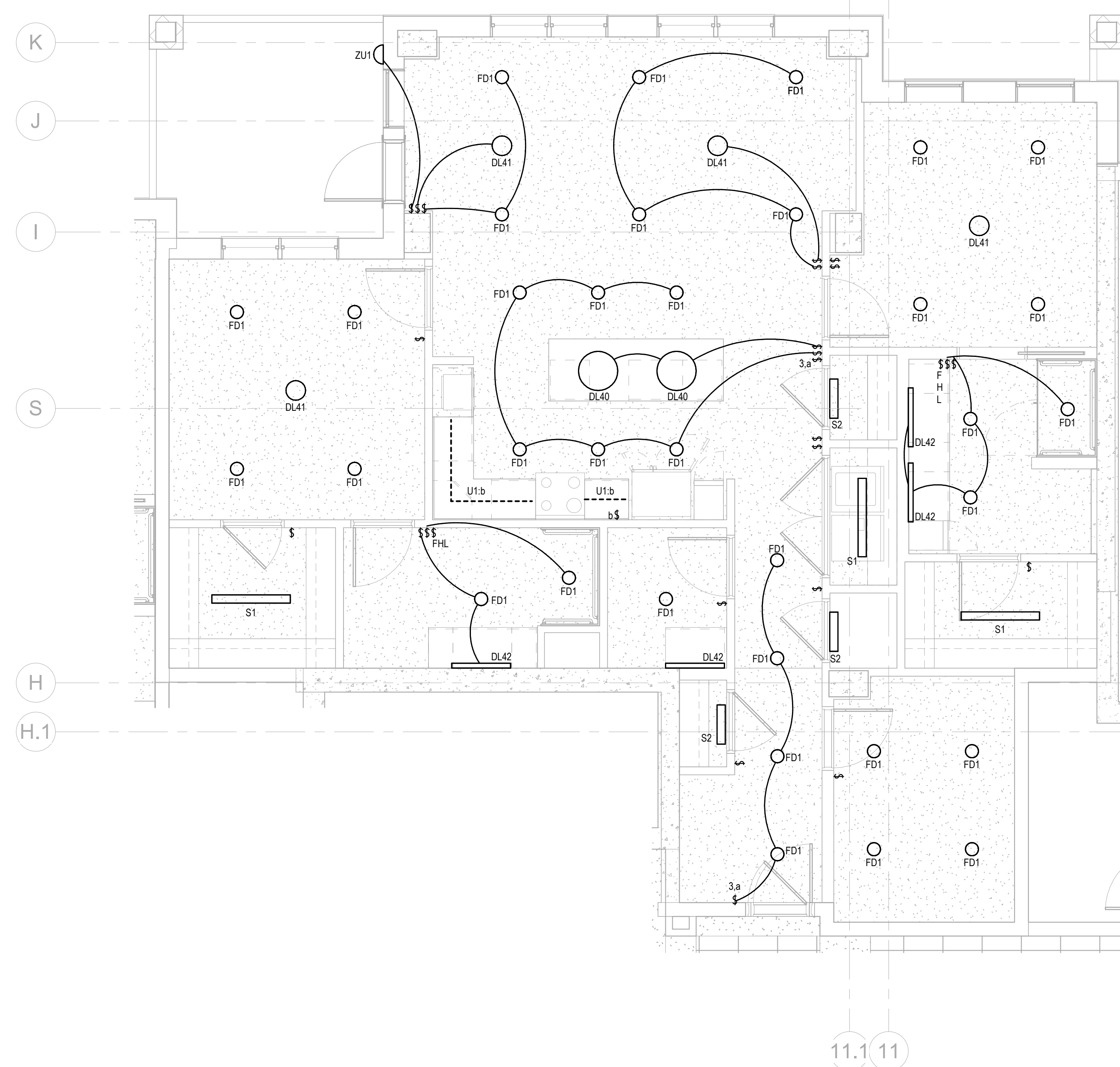
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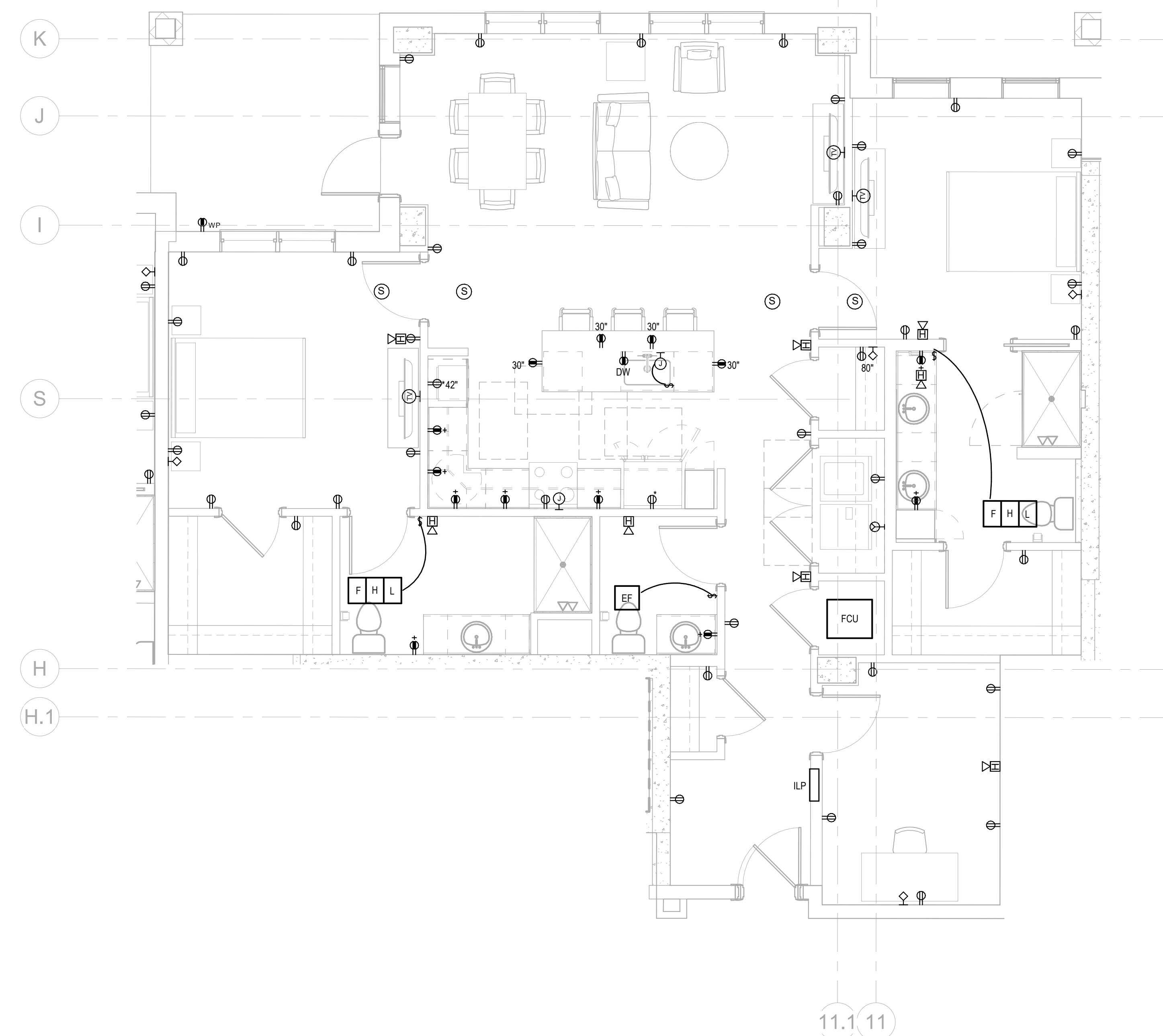
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ELECTRICAL - UNIT C

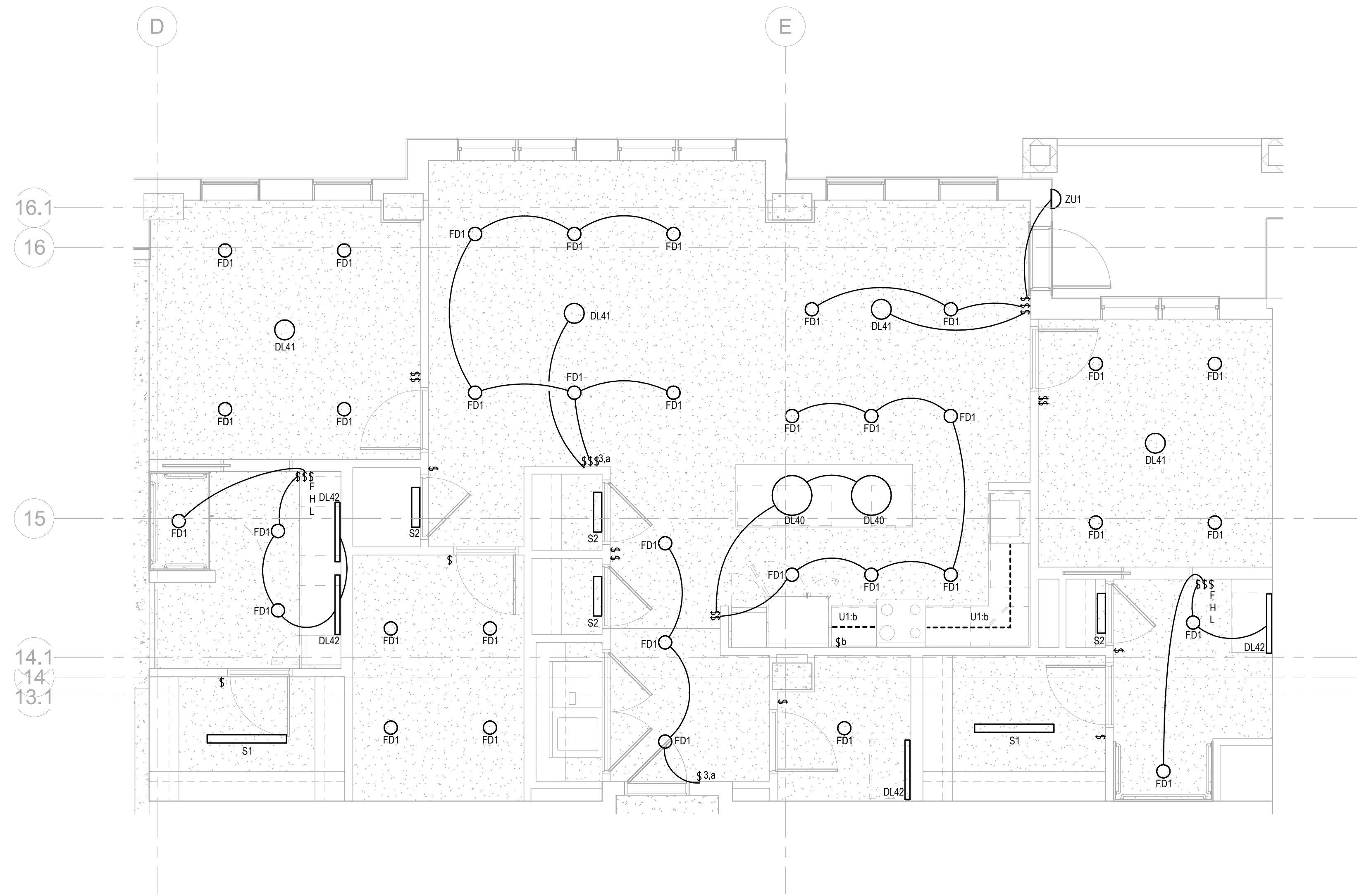
E-474



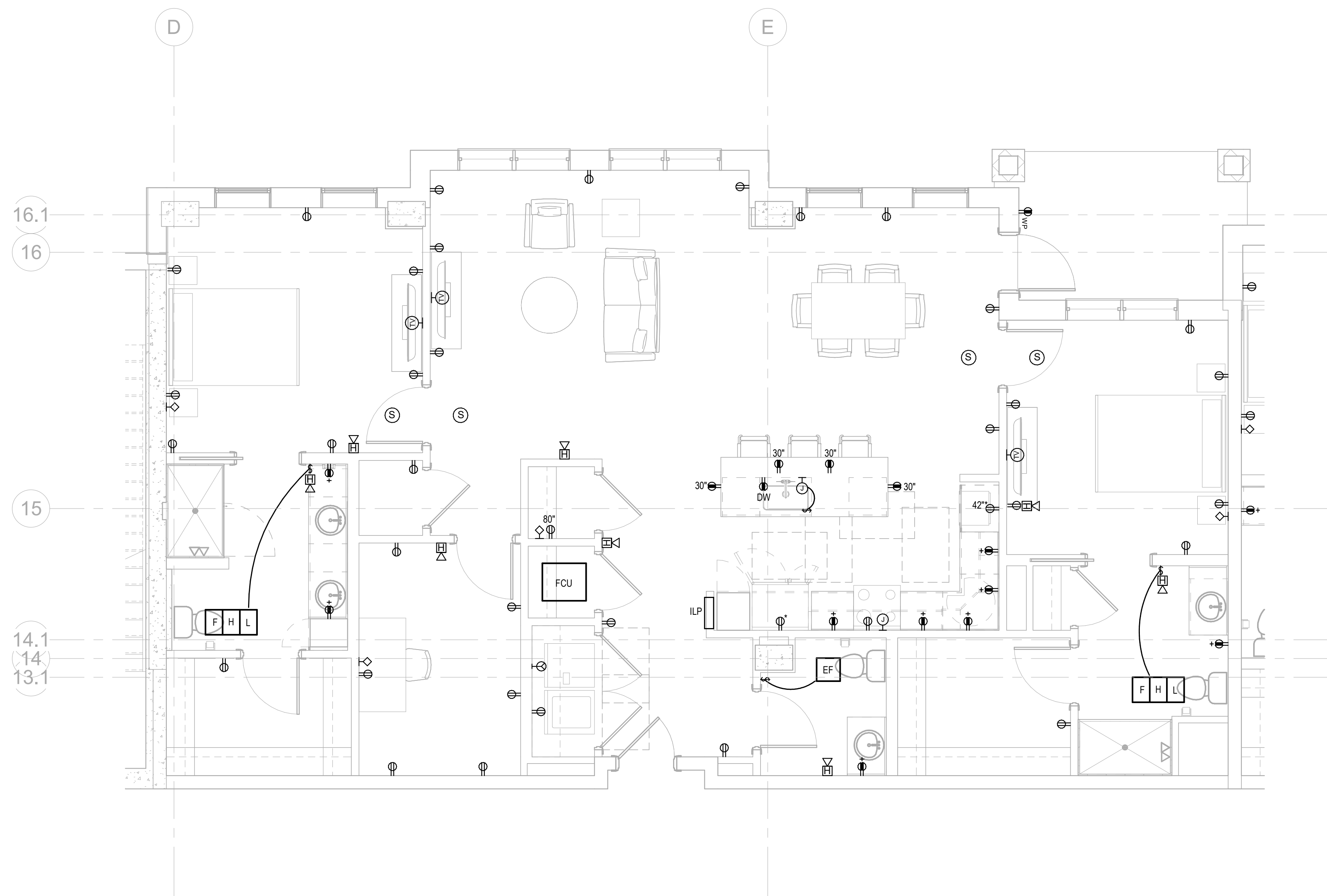
2 LIGHTING PLAN UNIT C
E-474 1/4" = 1'-0"



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



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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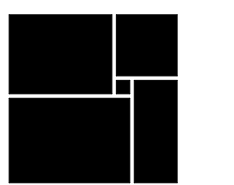
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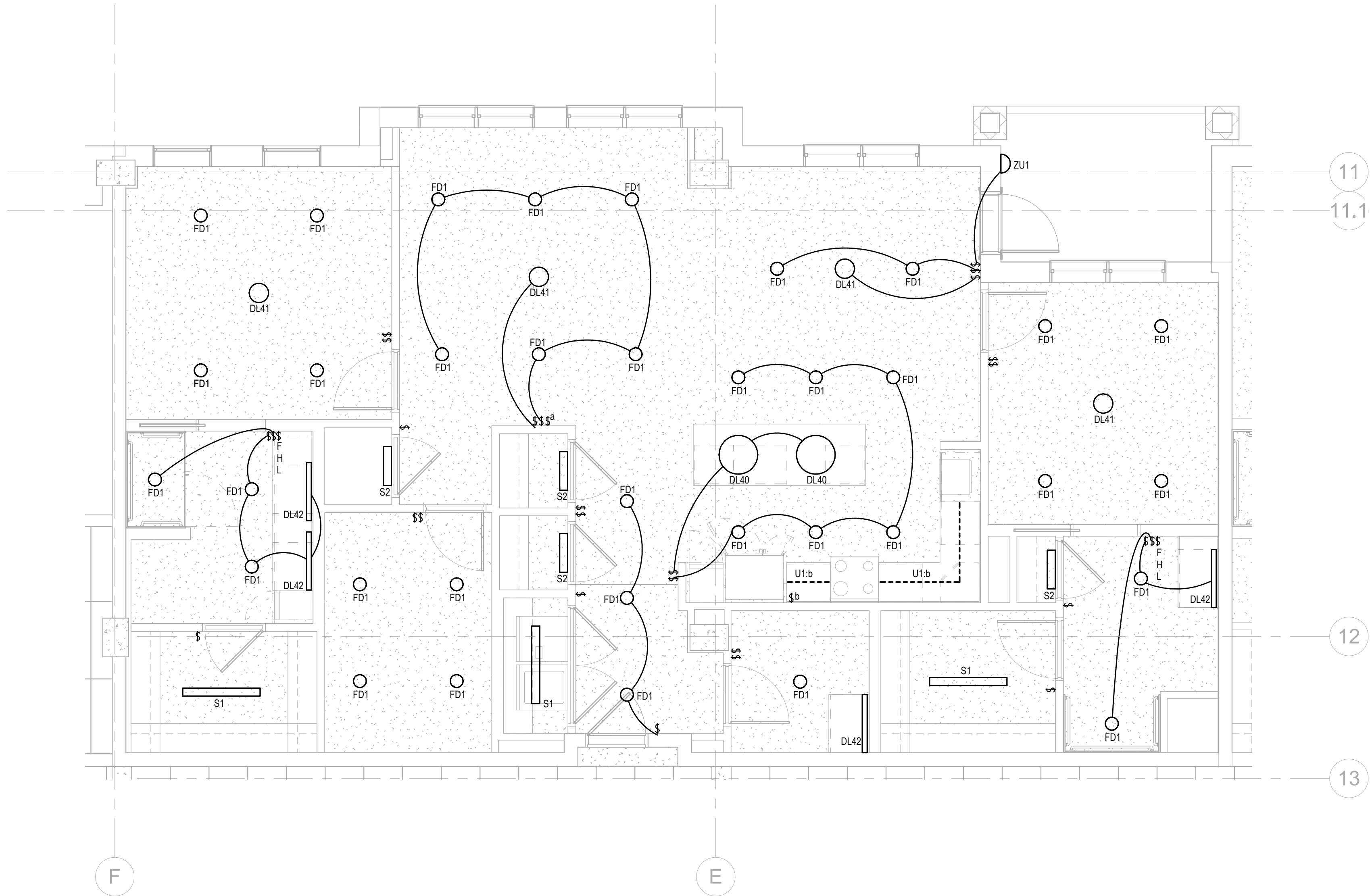
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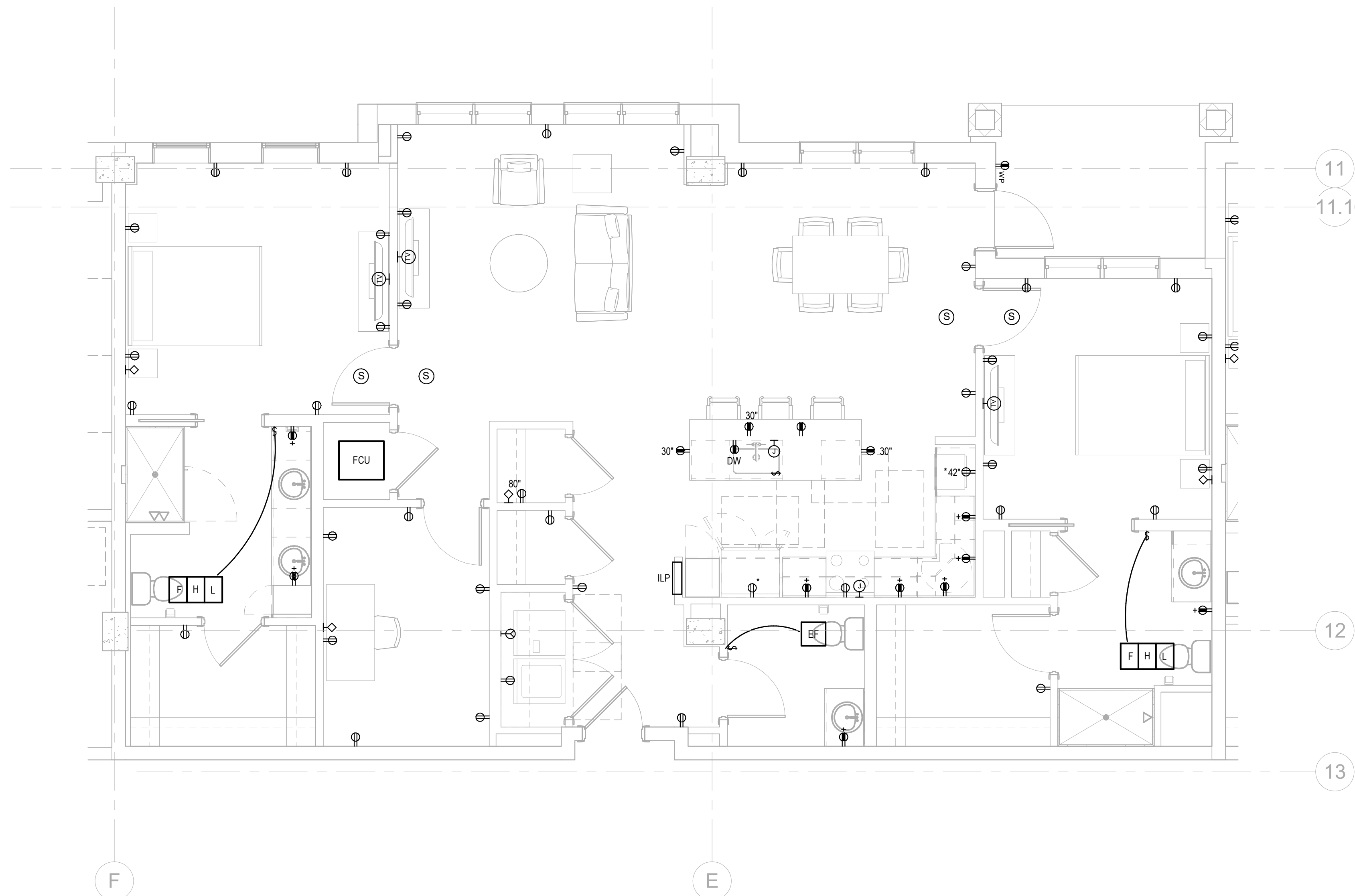
**ELECTRICAL -
UNIT D**

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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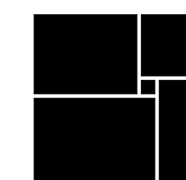
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**ELECTRICAL -
UNIT D1**

E-476

	08/22/25	DESIGN DEVELOPMENT
NO.	DATE	DESCRIPTION

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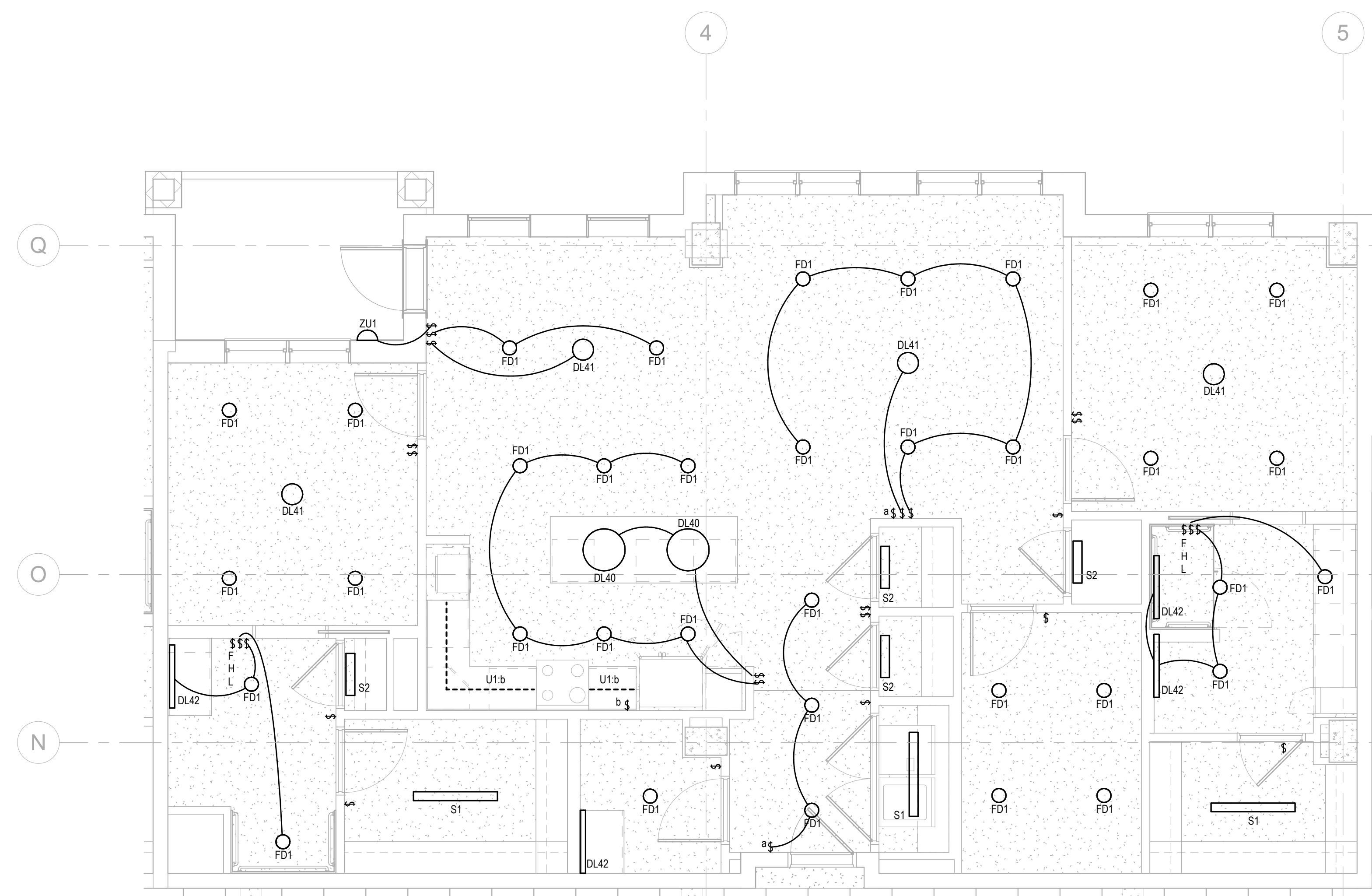
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DESIGN DEVELOPMENT

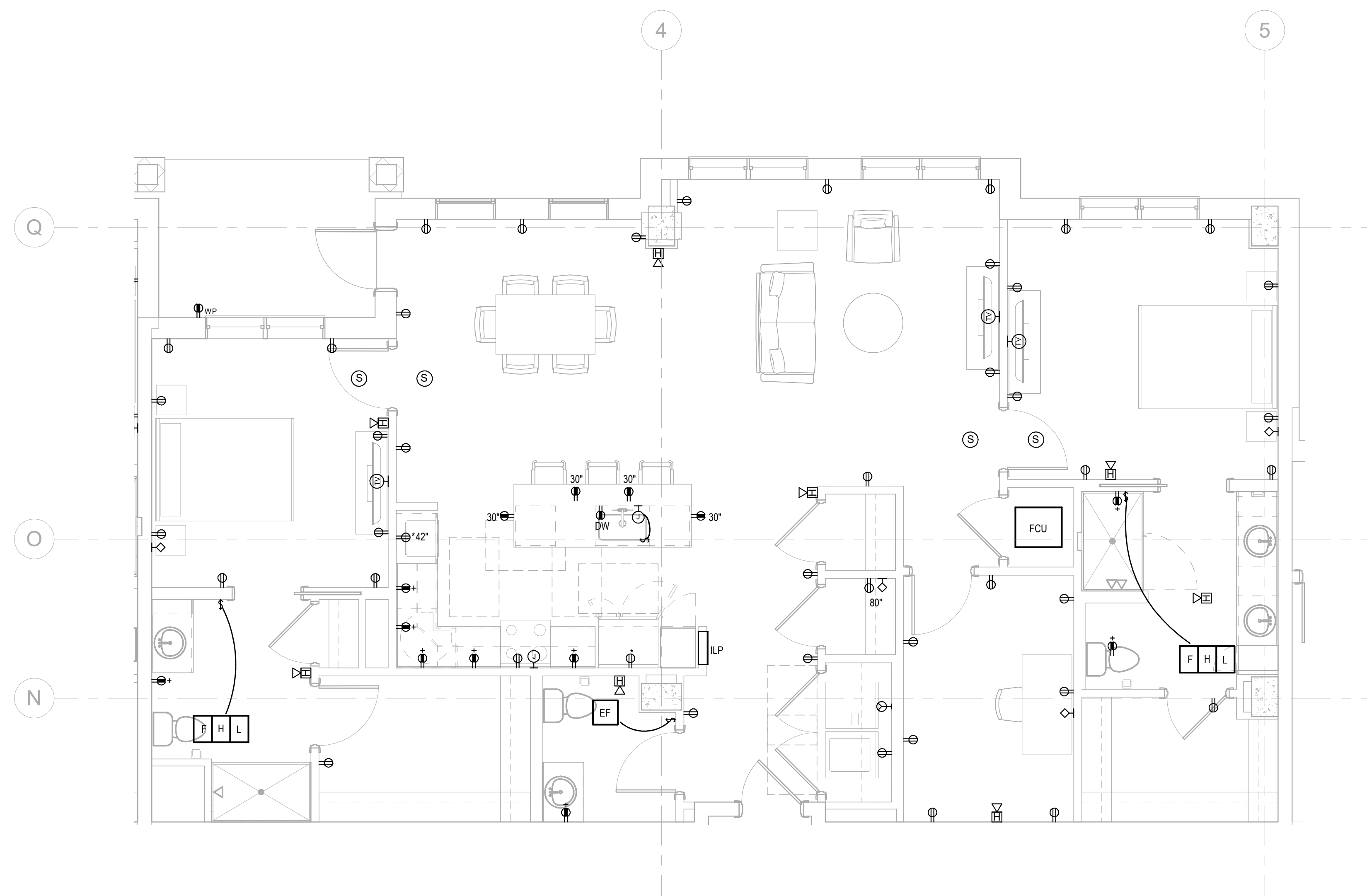
Project No.: 2021009
Date: 08/22/2025

ELECTRICAL - UNIT D2

E-477

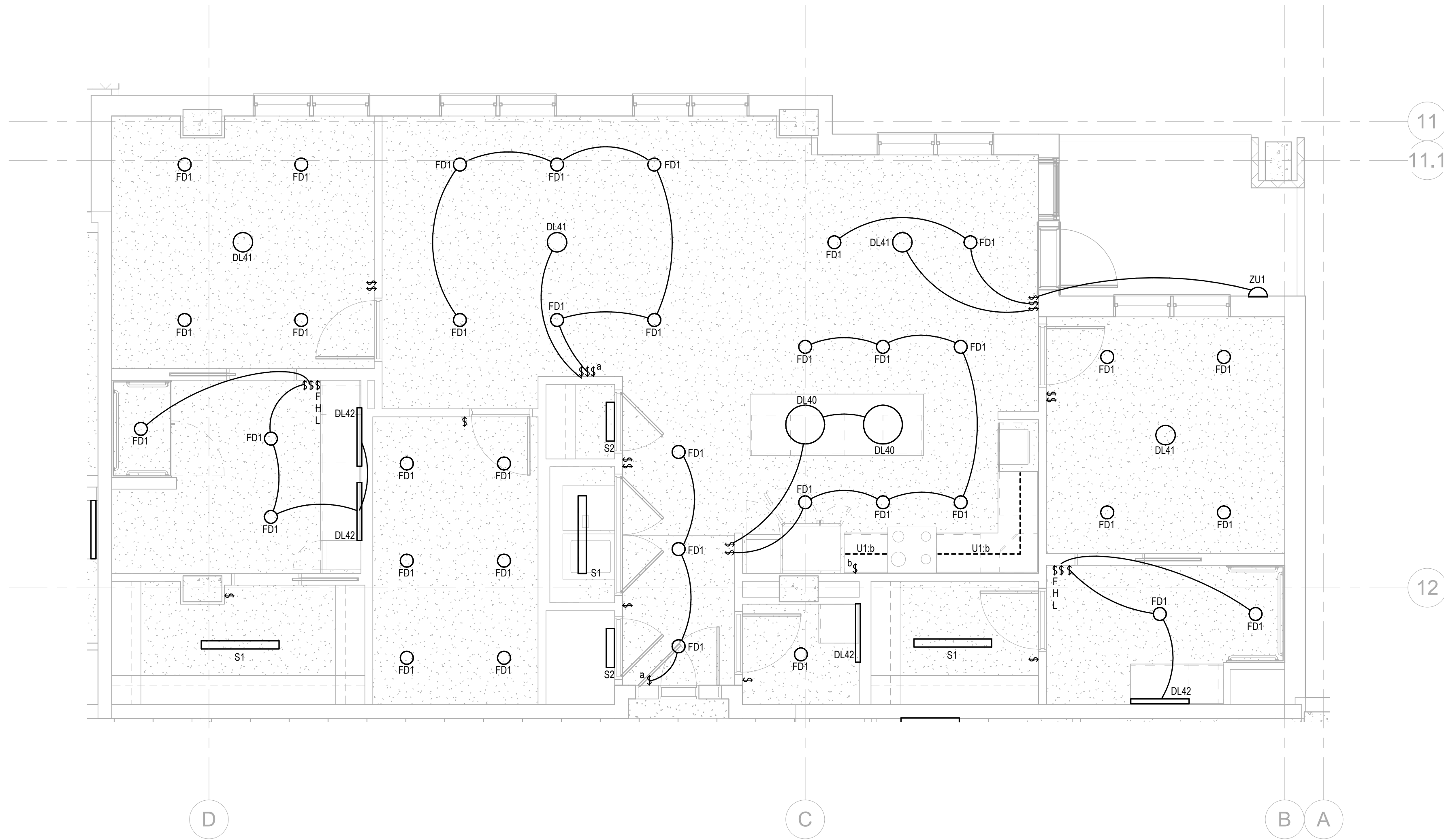


1 LIGHTING PLAN UNIT D2
E-477 1/4" = 1'-0"

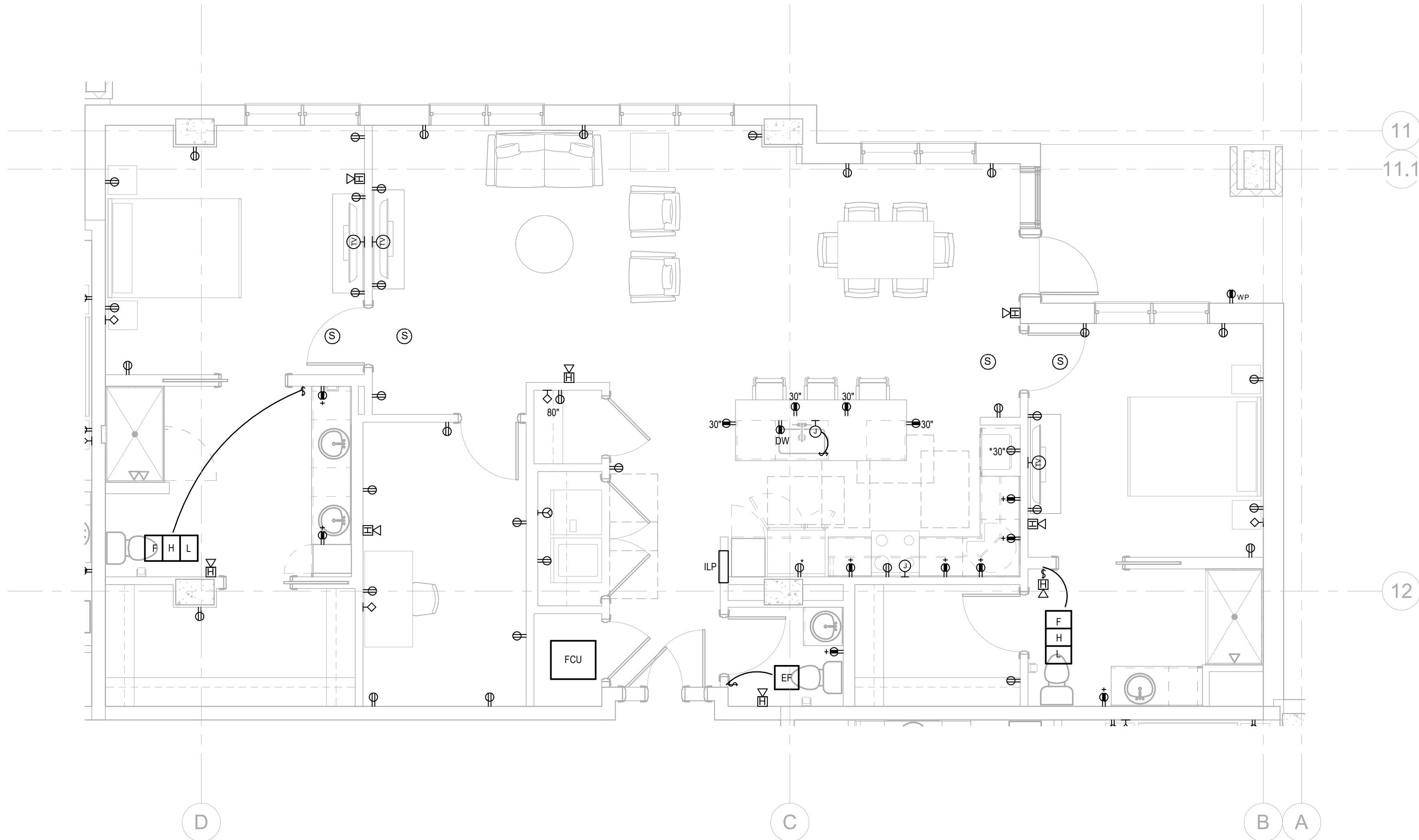


2 ELECTRICAL PLAN UNIT D2
E-477 1/4" = 1'-0"

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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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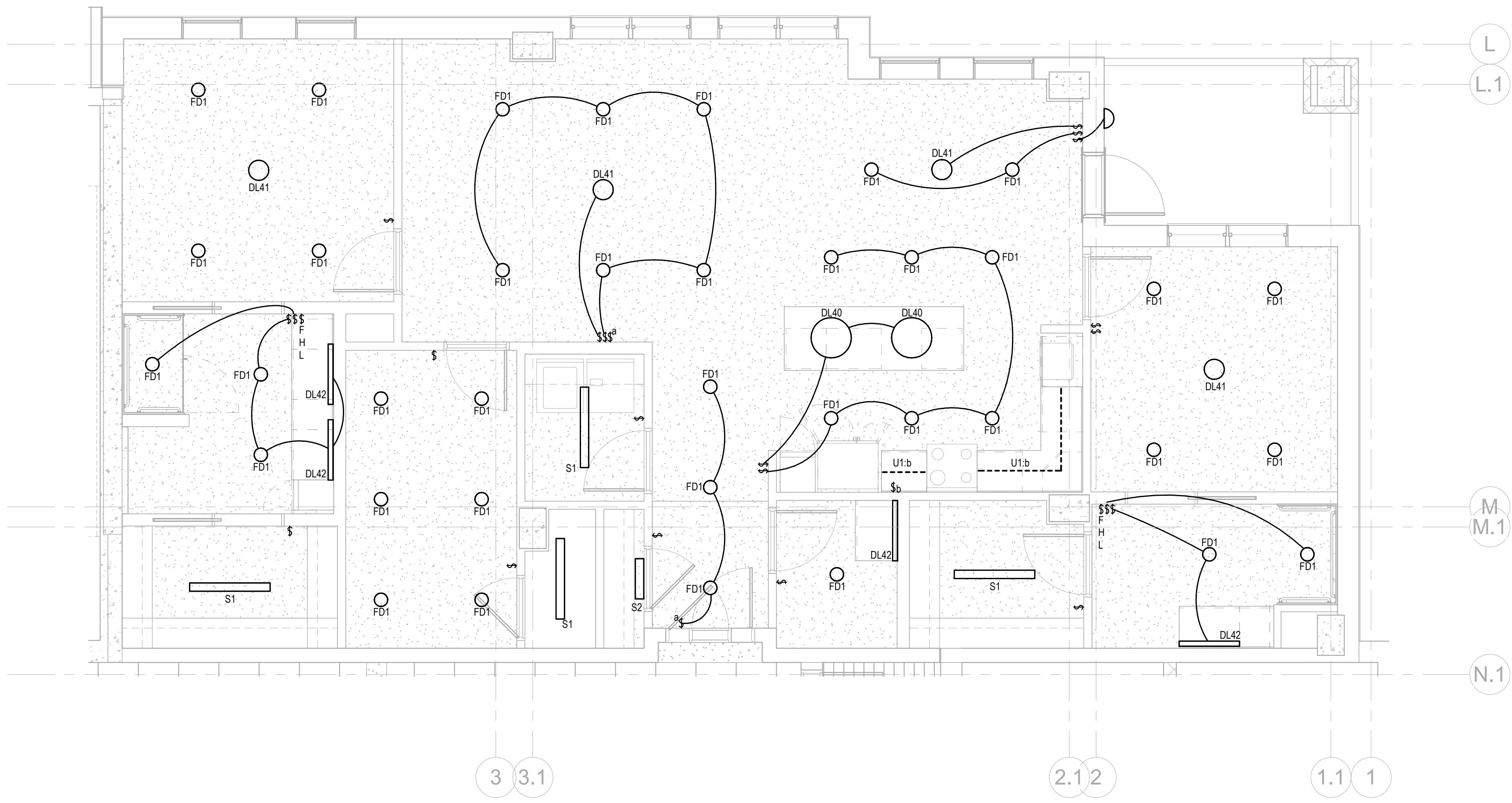
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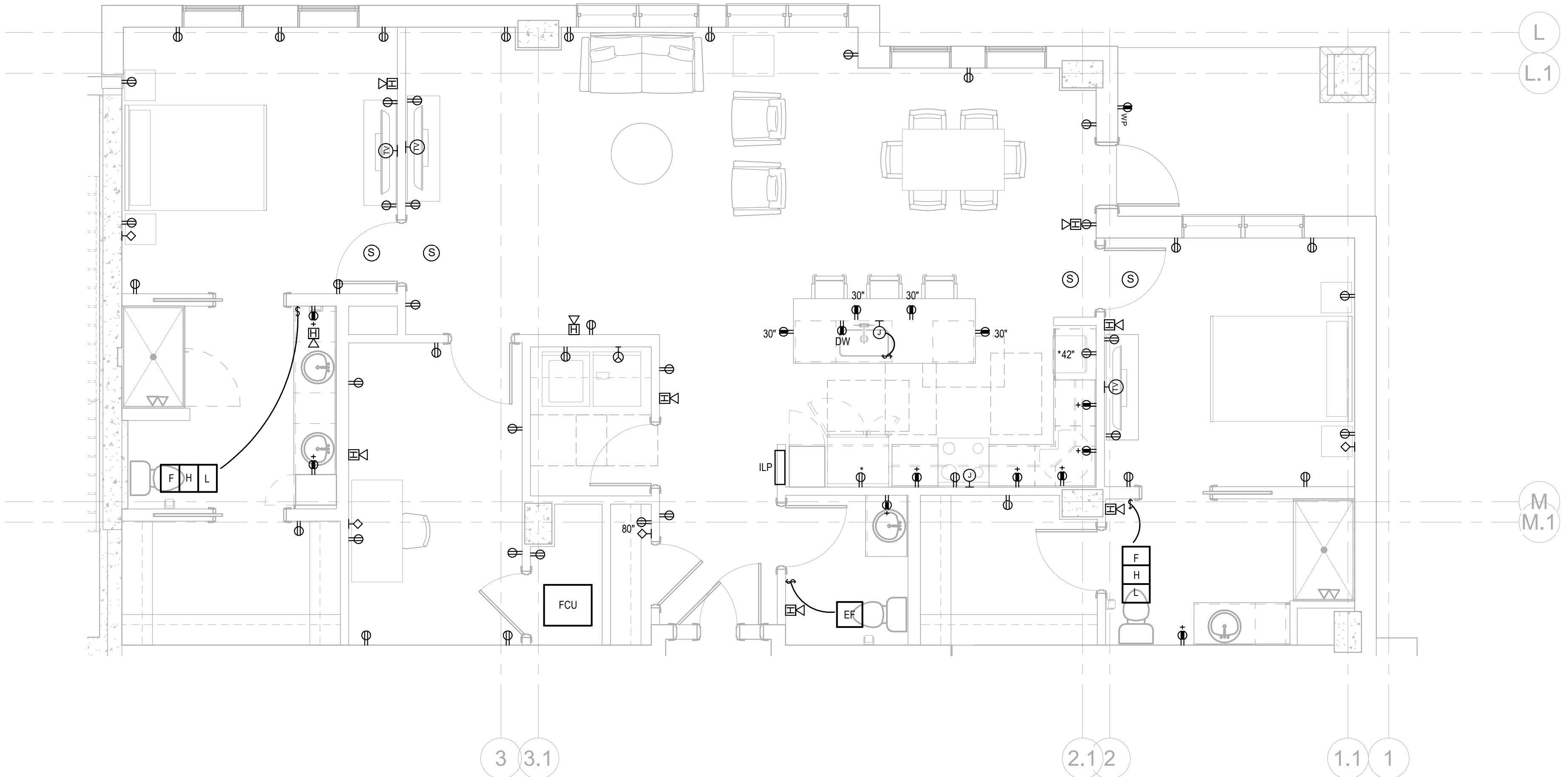
**ELECTRICAL -
UNIT E**

E-478

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



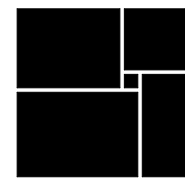
1 ELECTRICAL PLAN UNIT E1
E-479 1/4" = 1'-0"

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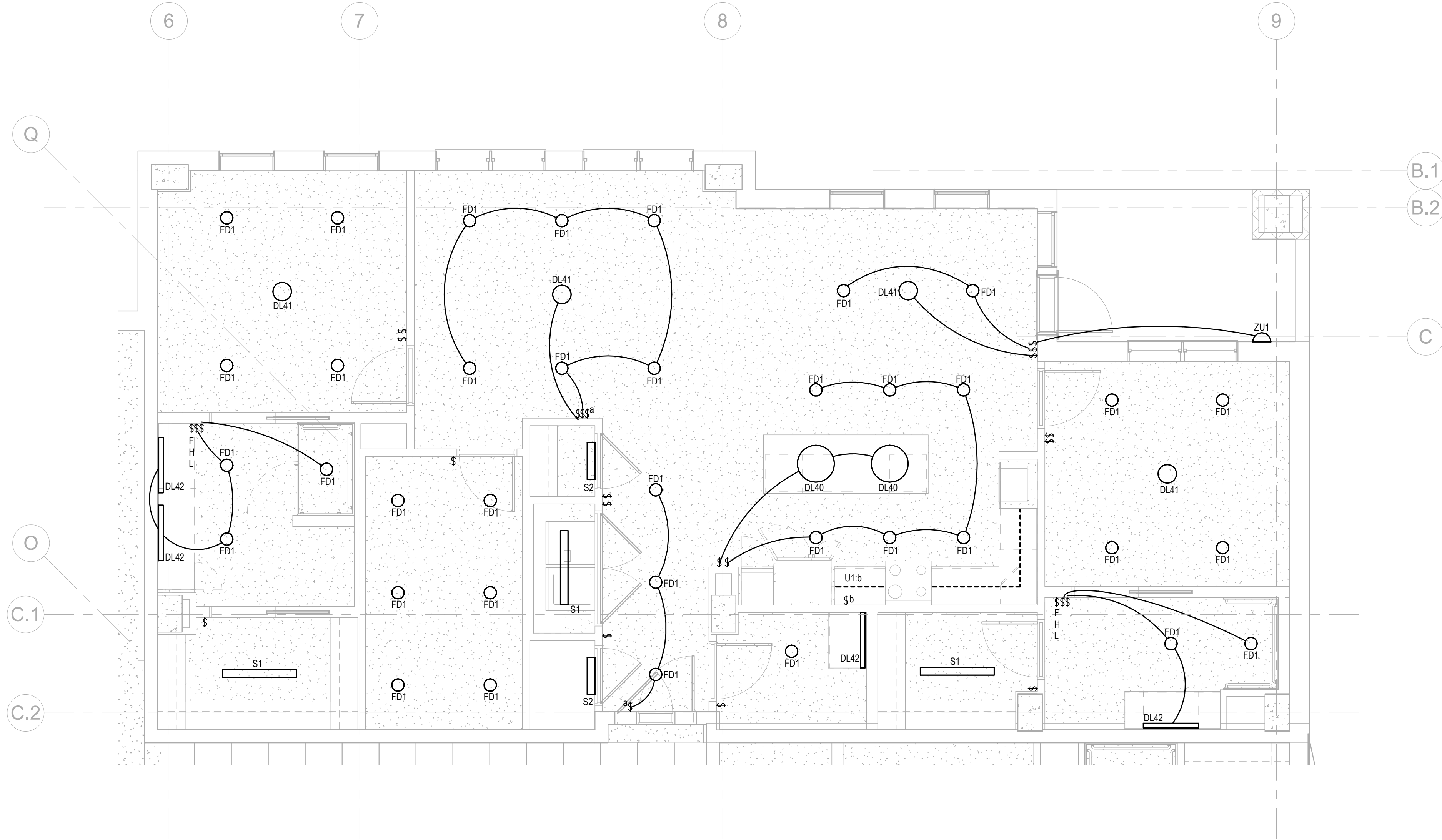
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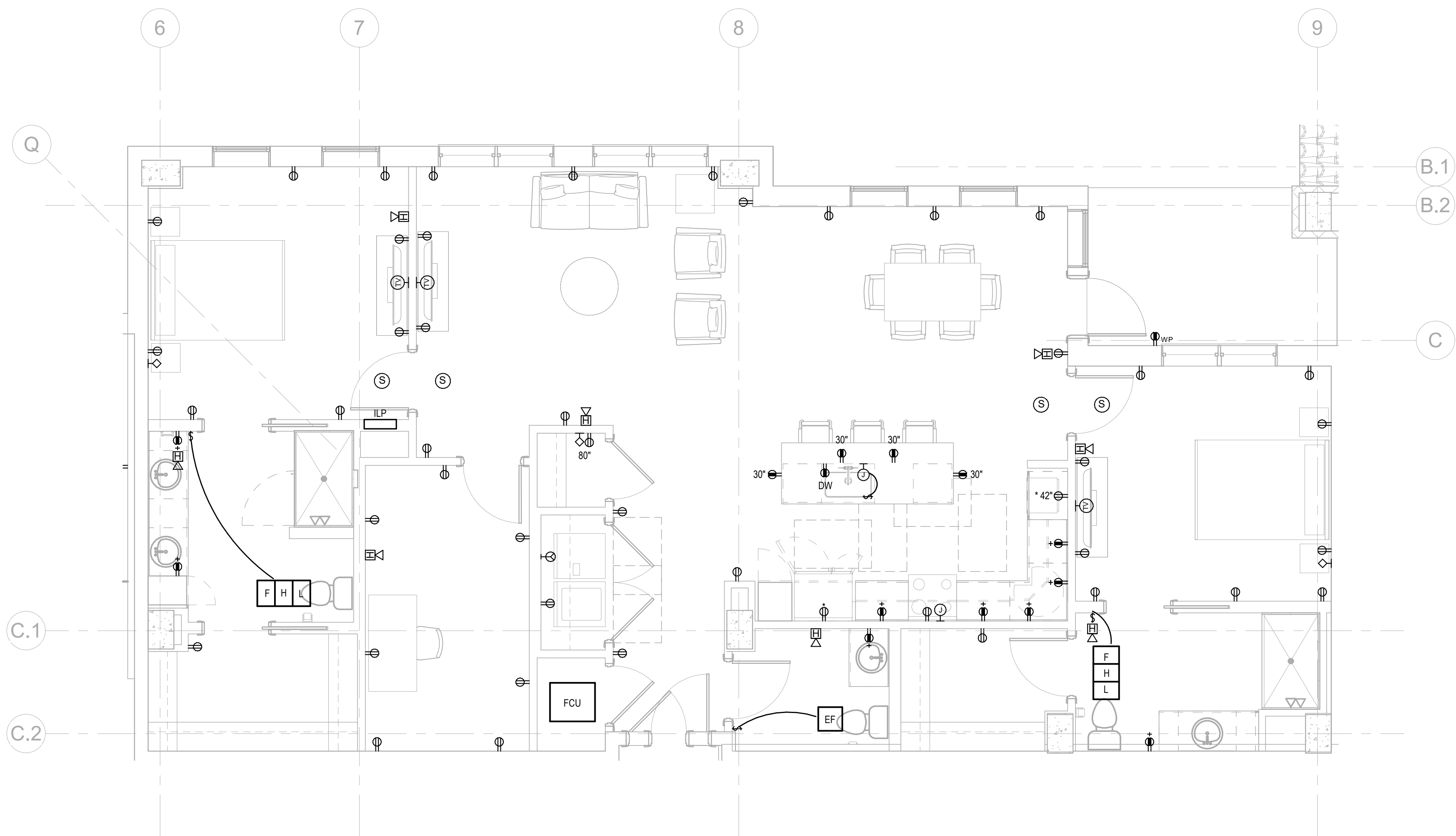
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**ELECTRICAL -
UNIT E1**

E-479



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



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

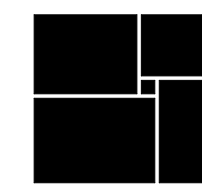
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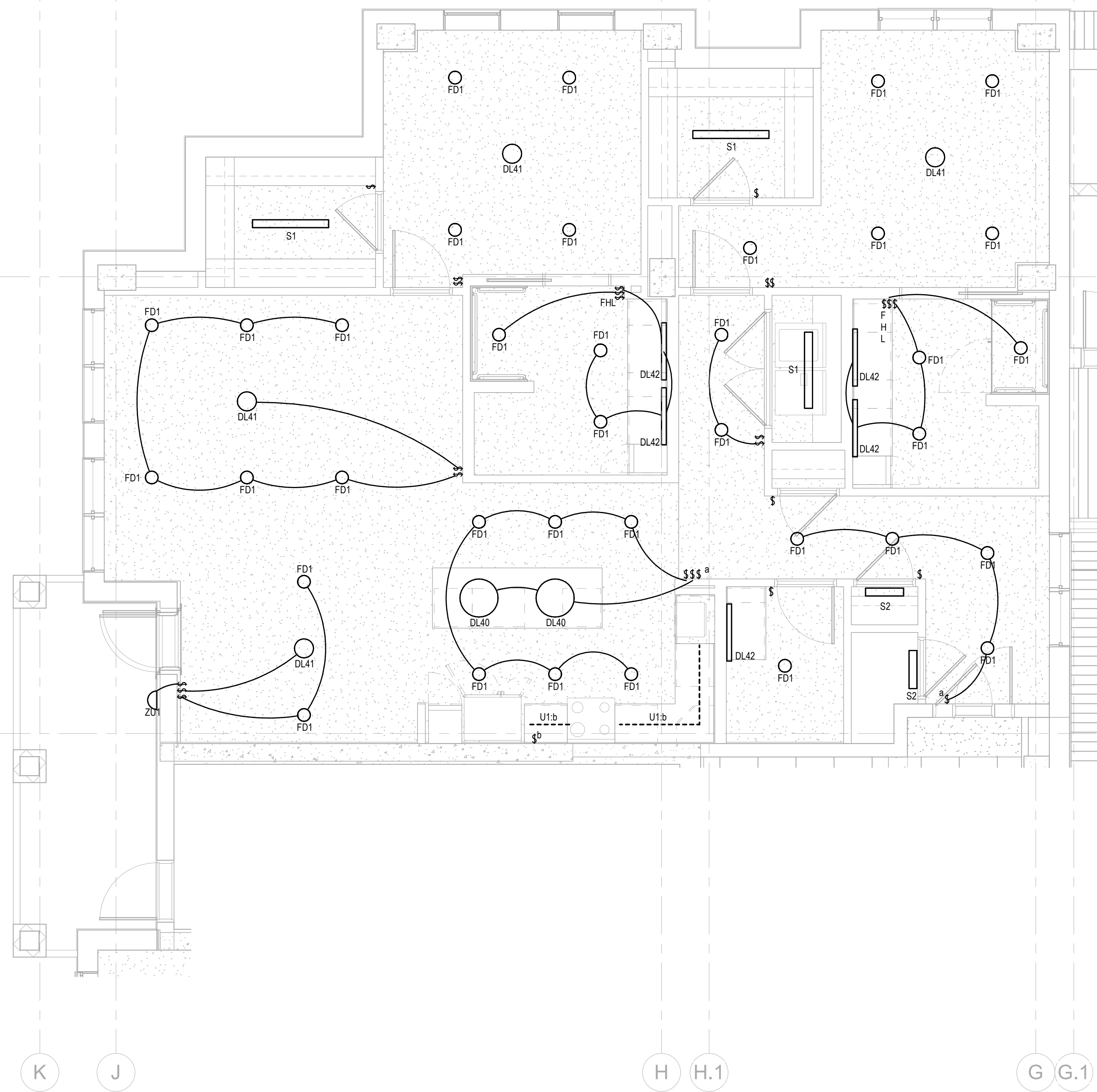
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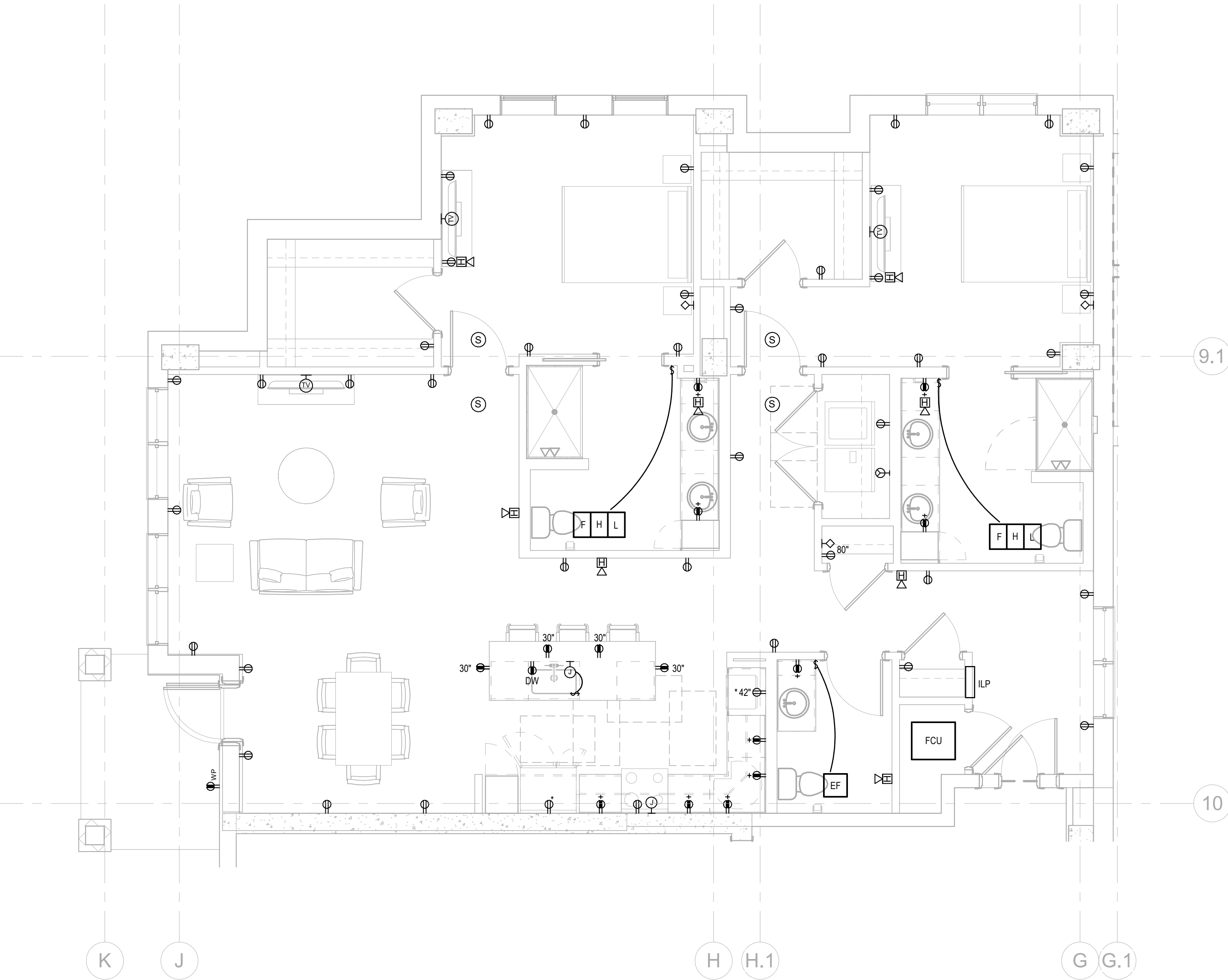
**ELECTRICAL -
UNIT E2**

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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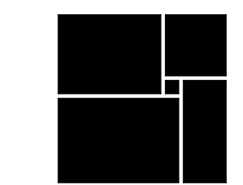
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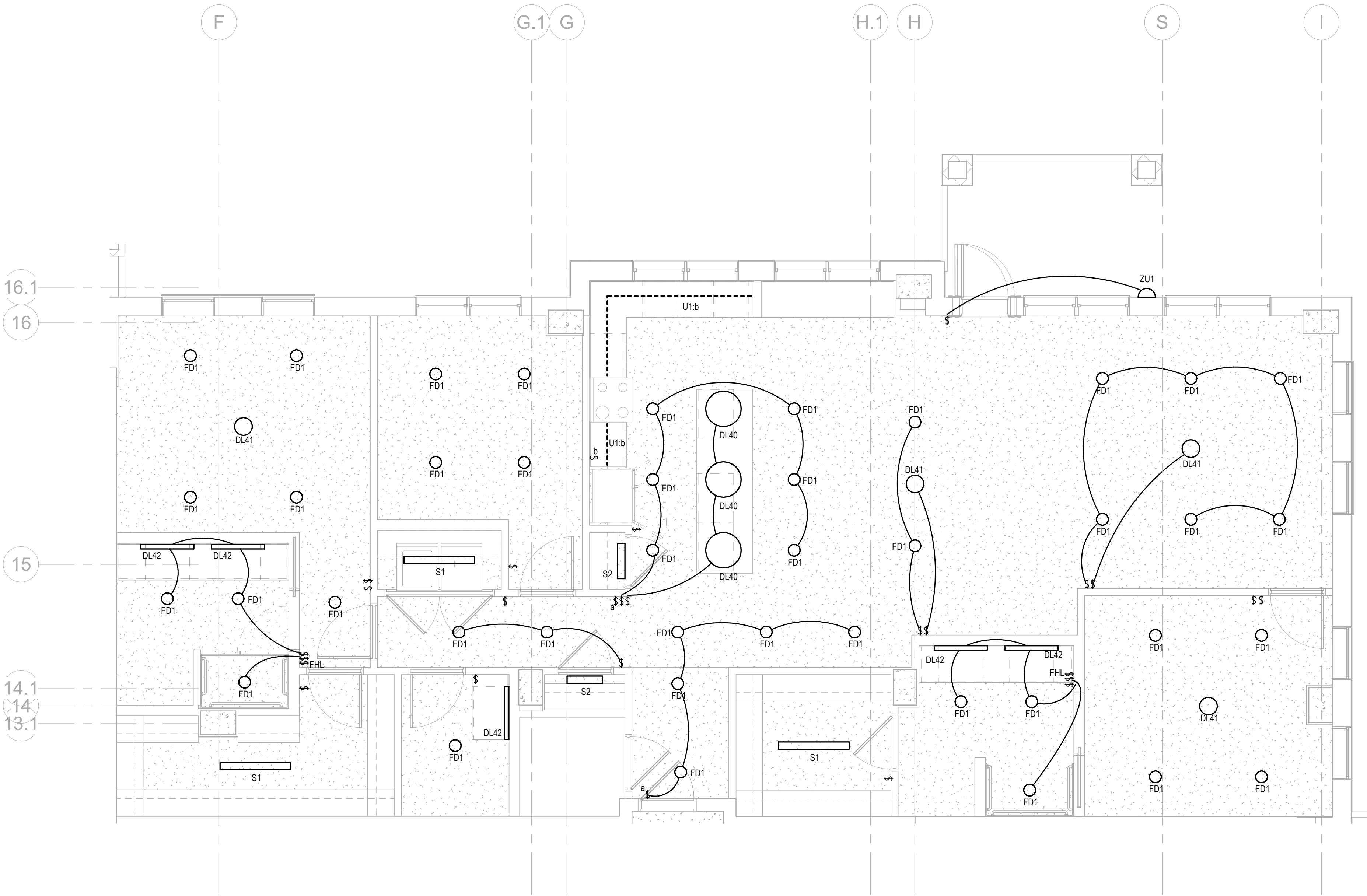
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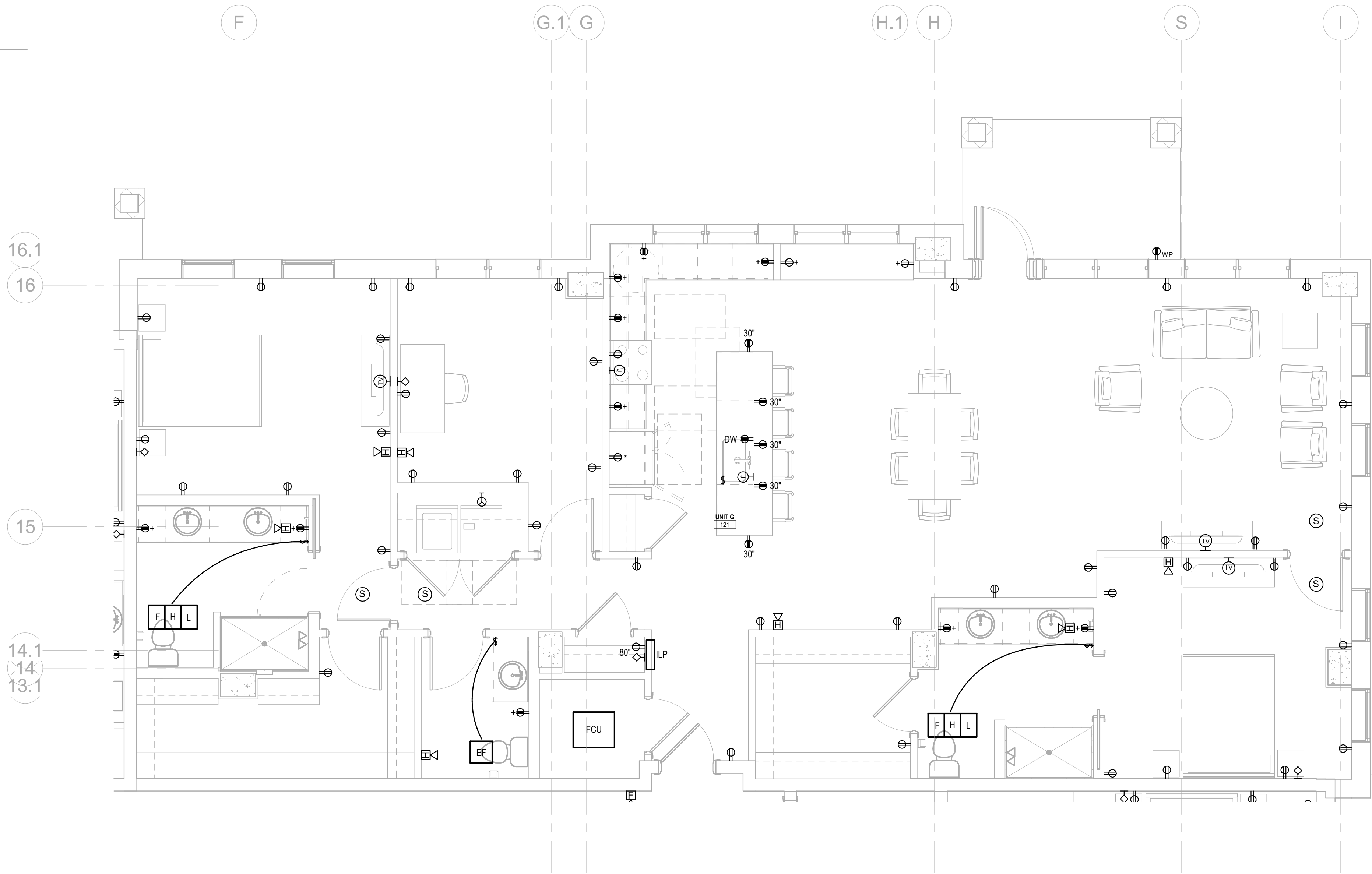
**ELECTRICAL -
UNIT F**

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"

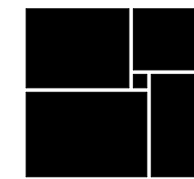
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**ELECTRICAL -
UNIT G**

E-482

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