

**Addendum No. 1**  
To the Plans and Specifications of  
**Spanish Fort Community Center Elevator Addition**  
May 24, 2024

This addendum, in conjunction with the original issue of Contract Documents, dated March 14, 2024, hereby constitute the current documents for the construction project. This addendum consists of:

**GENERAL:**

None Noted

**PROJECT MANUAL:**

- 1. Section 275129 – Emergency Communications Systems:**  
INSERT Section 275129 – Emergency Communications Systems.

**DRAWINGS:**

- 1. Refer to Sheet T001, Title Sheet / Index to Drawings:**  
DELETE Sheet T001, Title Sheet / Index to Drawings, in its entirety and INSERT attached revised Sheet T001.
- 2. Refer to Sheet A102-1, Floor Plan Level 2:**  
DELETE Sheet A102-1, Floor Plan Level 2, in its entirety and INSERT attached revised Sheet A102-1.
- 3. Refer to Sheet E101, Main Panel Schedule:**  
DELETE Sheet E101, Main Panel Schedule, in its entirety and INSERT attached revised Sheet E101.
- 4. Refer to Sheet E102, Power Panel Schedule:**  
DELETE Sheet E102, Power Panel Schedule, in its entirety and INSERT attached revised Sheet E102.
- 5. Refer to Sheet E104, Lighting Panel Schedule:**  
DELETE Sheet E104, Lighting Panel Schedule, in its entirety and INSERT attached revised Sheet E104.
- 6. Refer to Sheet E202, Power Plan:**  
DELETE Sheet E202, Power Plan, in its entirety and INSERT attached revised Sheet E202.
- 7. Refer to Sheet E207, Mezzanine Power Plan:**  
DELETE Sheet E207, Mezzanine Power Plan, in its entirety and INSERT attached revised Sheet E207.
- 8. Refer to Sheet E302, Lighting Plan:**  
DELETE Sheet E302, Lighting Plan, in its entirety and INSERT attached revised Sheet E302.

**9. Refer to Sheet E303, Lighting Plan:**

DELETE Sheet E303, Lighting Plan, in its entirety and INSERT attached revised Sheet E303.

**10. Refer to Sheet E307, Mezzanine Lighting Plan:**

DELETE Sheet E307, Mezzanine Lighting Plan, in its entirety and INSERT attached revised Sheet E307.

**11. Refer to Sheet E308, Mezzanine Lighting Plan:**

DELETE Sheet E308, Mezzanine Lighting Plan, in its entirety and INSERT attached revised Sheet E308.

**12. Refer to Sheet E402, Fire Alarm Plan:**

DELETE Sheet E402, Fire Alarm Plan, in its entirety and INSERT attached revised Sheet E402.

**13. Refer to Sheet E406, Fire Alarm Plan:**

DELETE Sheet E406, Fire Alarm Plan, in its entirety and INSERT attached revised Sheet E406.

**14. Refer to Sheet E407, Mezzanine Fire Alarm Plan:**

DELETE Sheet E407, Mezzanine Fire Alarm Plan, in its entirety and INSERT attached revised Sheet E407.

**15. Refer to Sheet E409, Notes and Legend:**

DELETE Sheet E409, Notes and Legend, in its entirety and INSERT attached revised Sheet E409.

END OF ADDENDUM #1

ATTACHMENTS:

Specification Section 275129 – Emergency Communications Systems

Sheet T001, Title Sheet / Index to Drawings, Revised May 20, 2024

Sheet A102-1, Floor Plan Level 2, Revised May 20, 2024

Sheet E101, Main Panel Schedule, Revised May 20, 2024

Sheet E102, Power Panel Schedule, Revised May 20, 2024

Sheet E104, Lighting Panel Schedule, Revised May 20, 2024

Sheet E202, Power Plan, Revised May 20, 2024

Sheet E207, Mezzanine Power Plan, Revised May 20, 2024

Sheet E302, Lighting Plan, Revised May 20, 2024

Sheet E303, Lighting Plan, Revised May 20, 2024

Sheet E307, Mezzanine Lighting Plan, Revised May 20, 2024

Sheet E308, Mezzanine Lighting Plan, Revised May 20, 2024

Sheet E402, Fire Alarm Plan, Revised May 20, 2024

Sheet E406, Fire Alarm Plan, Revised May 20, 2024

Sheet E407, Mezzanine Fire Alarm Plan, Revised May 20, 2024

Sheet E409, Notes and Legend, Revised May 20, 2024

**AOR-5 / AOR-10 SERIES  
5- AND 10-STATION  
ANALOG AREA OF REFUGE COMMAND UNIT  
TECHNICAL SPECIFICATIONS**

**SECTION 27 51 29  
EMERGENCY COMMUNICATIONS SYSTEMS**

**PART 1 GENERAL**

**1.01 SUMMARY**

- A. Equipment and materials used shall be standard components that are manufactured and available for purchase as standard replacement parts as long as the product is commercially available from the manufacturer.

**1.02 QUALITY ASSURANCE**

- A. All command unit installation, configuration, setup, programming, and related work shall be performed by electronic technicians thoroughly trained by the manufacturer in the installation and service of the equipment provided.
- B. All equipment shall be warrantied against any defects in material and workmanship under normal use for a period of sixty (60) months beginning on the earlier of (1) sale to an end customer, or (2) six (6) months after the equipment leaves the manufacturer's facility.

**1.03 CERTIFICATIONS AND STANDARDS**

- A. The command unit shall be designed to meet the following standards:
  - 1. NFPA 72: National Fire Alarm and Signaling Code (2022), §24.10
  - 2. International Building Code (IBC) (2021), §1009.8
  - 3. Accessibility
    - a. ADA Accessibility Guidelines (ADAAG) (2010), Ch. 7
    - b. ANSI ICC A117.1 (2017): Accessible and Usable Buildings and Facilities, Ch. 7
  - 4. Safety
    - a. UL 62368-1

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**PART 2 PRODUCTS**

**2.01 GENERAL**

A. The command unit shall:

1. Be an indoor-rated emergency communications system device comprised of an operating panel with dedicated buttons and LEDs for each analog call station and sub-command unit, a handset with volume control, a keyed reset switch, and a battery backup.
2. Have an available configuration where all operable components are secured behind a door for use by authorized personnel.
3. Provide analog call stations with the ability to establish communication with either an attendant at the local command unit handset, at up to two (2) sub-command units (i.e. secondary and tertiary on-premise answering points), or through a PSTN connection.
4. Support and provide power to each analog call station for either up to five (5) or up to ten (10) units as an area of refuge (or area of rescue assistance) station used for emergency communications.
5. Be half duplex in operation.
6. Be programmable from either:
  - a. A touch-tone telephone or a sub-command unit connected locally;
  - b. Or a remote location if a connection to the public switched telephone network (PSTN) is made available.
7. Provide an audible indicator for the following fault conditions:
  - a. Open faults and short faults that occur on an analog call station conductive pathway.
  - b. PSTN connection fault.
  - c. System ground fault.
  - d. Low or disconnected battery backup.
  - e. Loss in primary power.
8. Provide a visual indicator for the following fault conditions:
  - a. Open faults and short faults that occur on each individual analog call station conductive pathway.
  - b. PSTN connection fault.
  - c. System ground fault.
  - d. Low or disconnected battery backup.
  - e. Loss in primary power.

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9. Provide a relay output for the following fault conditions:
  - a. Any open fault or short fault that occurs on an analog call station conductive pathway.
  - b. System ground fault.
  - c. Low or disconnected battery backup.
  - d. Loss in primary power.
10. Provide the following audible and visual indicators for operation of the system.
  - a. Audible indicators for:
    1. Receiving an inbound call from an analog call station.
    2. Receiving an inbound call from a sub-command unit.
  - b. Visual indicators for:
    1. Line status of the PSTN connection.
    2. Activation and call status for each individual analog call station.
    3. Activation and call status for each individual sub-command unit.
    4. Powered on status for the command unit.
11. Provide a relay output for any analog call station activation.

**2.02 HARDWARE**

- A. The command unit enclosure shall:
  1. Be constructed of 16 Ga. cold-rolled steel (CRS).
  2. Be powder coated black or white.
  3. Measure approximately:
    - a. 13.30 in. W x 18.00 in. H x 6.90 in. D for the configuration without a door.
    - b. 14.60 in. W x 19.30 in. H x 7.60 in. D for the configuration with a door.
  4. Have mounting holes on the rear and two sides of the enclosure.
  5. Have multiple 0.5 in., 0.75 in., 1.0 in., and 1.25 in. conduit knockouts for wiring access.
  6. Have a faceplate that shall:
    - a. Provide a means for internal component servicing.
    - b. Be held in place by six (6) 10-24 screws.

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- B. The command unit enclosure with a door shall:
  - 1. Have a door with a keyed latch.
  - 2. Have a door with an acrylic window so that the operating panel light-emitting diodes (LEDs) are visible.
- C. The command unit shall weigh approximately:
  - 1. 25 lbs. for the configuration without a door.
  - 2. 35 lbs. for the configuration with a door.
- D. The command unit shall have an operating panel to provide a visual indication on the status of individual analog call stations. The operating panel shall:
  - 1. Have one (1) LED for each analog call station to indicate activation status—for a total of either five (5) or ten (10) LEDs.
  - 2. Have one (1) LED for each analog call station to indicate fault status in the event an open fault or a short fault occurs on an analog call station conductive pathway—for a total of either five (5) or ten (10) LEDs.
  - 3. Have one (1) LED to indicate an activation status on the PSTN connection.
  - 4. Have one (1) LED to indicate a fault status on the PSTN connection.
  - 5. Have one (1) LED for each sub-command unit to indicate activation status—for a total of two (2) LEDs.
  - 6. Have one (1) LED to indicate a system ground fault.
  - 7. Have one (1) LED to indicate whether the battery backup is in a fully charged state or in a state of being charged.
  - 8. Have one (1) LED to indicate a low or disconnected battery backup.
  - 9. Have one (1) LED to indicate a normal status for primary power input.
  - 10. Have one (1) LED to indicate a fault status for primary power input.
- E. The local command unit handset shall:
  - 1. Have a handset with a coiled cord.
  - 2. Have a built-in volume control.

**2.03 FUNCTIONALITY**

- A. Local Command Unit Handset
  - 1. Receive calls from one (1) of the five (5) or ten (10) analog call stations.
  - 2. When an incoming call has been received, the command unit shall audibly ring.
  - 3. Originate calls selectively to one (1) of the five (5) or ten (10) analog call stations.

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**B. Sub-Command Unit**

1. Serve as a secondary or tertiary on-premise answering point.
2. Receive calls from one (1) of the five (5) or ten (10) analog call stations.
3. When an incoming call has been received, the sub-command unit shall audibly ring.
4. Originate calls selectively to one (1) of the five (5) or ten (10) analog call stations.

**C. Call Routing**

1. The command unit shall be configurable with one of the following call routing procedures:
  - a. Only route calls to the local command unit handset;
  - b. Only route calls through a PSTN connection;
  - c. Simultaneously call the local command unit handset and the sub-command unit(s)—the first attendant to answer the call on-premise establishes two-way communication with the analog call station.
  - d. Route calls to the local command unit handset as primary, PSTN connection as secondary—the command unit will continue routing the call in round robin fashion until the call is answered or the call conversation timer expires;
  - e. Route calls to the PSTN connection as primary, local command unit handset as secondary—the command unit will continue routing the call in round robin fashion until the call is answered or the call conversation timer expires;
  - f. Route calls to some combination of local command unit handset, sub-command unit, and PSTN connection in round robin fashion until the call is answered or the call conversation timer expires.
2. The command unit shall be capable of queueing calls on a “first in, first out” (FIFO) basis.
  - a. When a call is in session, subsequent calls shall be placed into a FIFO queue.
  - b. When a call is completed, the next call in queue shall be, as configured during installation, automatically placed to an attendant at the local command unit handset, at a sub-command unit, or through a PSTN connection.
3. When the attendant terminates a call, the analog call station shall automatically return to an on-hook condition.
4. Automatic Call Merging
  - a. The command unit can be configured so that any inbound phone call through the PSTN connection can automatically join a call in progress with an analog call station, local command unit handset, and/or sub-command unit.
  - b. The local command unit handset shall automatically join a call in progress when taken off-hook.
  - c. Either sub-command unit shall automatically join a call in progress when taken off-hook.

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5. All-Call to Analog Call Stations

- a. The command unit shall allow a one-way audio page to be sent to every analog call station via an inbound call through a PSTN connection.
- b. The command unit shall allow a one-way audio page to be sent to every analog call station through a sub-command unit.
- c. The all-call shall only be initiated when a DTMF command is issued by the attendant at a sub-command unit or a call through a PSTN connection.

D. Push Buttons (Operating Panel)

1. Analog Call Stations Push Buttons

- a. The operating panel shall provide a dedicated push button for each analog call station.
- b. Each analog call station push button will service as a hold/talk button—pressing the respective button will place an active call on hold and a subsequent press will reengage the call for two-way communication.
- c. Each analog call station push button shall also allow dialing from the command unit into any available analog call station.

2. PSTN Disconnect Push Button

- a. The operating panel shall provide a PSTN disconnect push button.
- b. The PSTN disconnect push button shall allow the PSTN connection to be disconnected once emergency services have arrived on-site, established communication with the attendant through the PSTN connection, and assumed control of the on-premise situation.

3. Sub-Command Unit Push Button

- a. The operating panel shall provide a dedicated push button for each sub-command unit.
- b. Each sub-command unit push button shall allow dialing from the command unit into any available sub-command unit.



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E. Visual Indicators (Operating Panel)

1. Analog Call Station Status LEDs

- a. When an analog call station has been activated but is not connected to an attendant at the local command unit handset, at a sub-command unit, or through a PSTN connection, the respective analog call station status LED shall flash.
- b. When an analog call station has been activated and the call has been answered by an attendant at the local command unit handset, at a sub-command unit, or through a PSTN connection, the respective analog call station status LED shall be solidly illuminated.
- c. Queued calls shall be indicated through the respective flashing analog call station status LED.
- d. Calls on hold shall be indicated through the respective flashing analog call station status LED.

2. PSTN Connection Status LEDs

- a. When there is a call connection attempt or an active call through the PSTN connection, the PSTN connection status LED shall be solidly illuminated.

3. Sub-Command Unit Status LEDs

- a. When a sub-command unit has placed a call but is not active in a call, the respective sub-command unit status LED shall flash.
- b. When a sub-command unit is active in a call, the respective sub-command unit status LED shall be solidly illuminated.

4. Battery Backup Status LED

- a. When the battery backup is fully charged, the battery backup status LED shall be solidly illuminated.
- b. When the battery backup is in the process of being charged, the battery backup status LED shall flash.

5. Primary Power Input Status LED

- a. When the command unit is powered, the primary power input status LED shall be solidly illuminated.
- b. When there is a loss in primary power, the primary power input status LED shall disengage.

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6. Fault LEDs

- a. When an open fault or short fault occurs on an analog call station conductive pathway, the respective fault LED(s) shall flash.
- b. When the PSTN connection has an open or a short, its dedicated fault LED shall flash.
- c. When a system ground fault occurs, its dedicated fault LED shall flash.
- d. When the battery backup is disconnected or is low on voltage, its dedicated fault LED shall flash.
- e. When there is a loss in primary power, its dedicated fault LED shall flash.

F. Audible Indicator (Analog Call Station Prerecorded Voice Message)

1. An attendant at the local command unit handset, at a sub-command unit, or through a PSTN connection shall be capable of receiving a prerecorded voice message from the analog call station.
2. This prerecorded voice message shall notify the attendant of the analog call station location by playing at the beginning of the phone conversation.

G. Audible Fault Indicator

1. The command unit shall emit a steady tone when one of the following faults occur:
  - a. Open faults and short faults that occur on an analog call station conductive pathway.
  - b. PSTN connection fault.
  - c. System ground fault.
  - d. Low or disconnected battery backup.
  - e. Loss in primary power.

H. Fault Reset Key Switch

1. The command unit shall have a fault reset key switch that can only be used by authorized personnel through a key.
2. The fault reset key switch can be used to:
  - a. Temporarily silence the audible fault indicator for 23 hours or until the next timed supervisory test occurs. If the fault remains during the next timed supervisory test, the audible fault indicator will be provided again.  
  
Any LED fault indicators will remain in their trouble condition until the faults have been fully corrected.  
  
An audible double beep will also be heard when the fault reset key switch is toggled to silence the audible fault indicator.
  - b. Deactivate the audible fault indicator when all faults have been corrected.

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c. Deactivate fault LEDs when all have been corrected.

**2.04 INTERFACES**

**A. Analog Call Station Interface**

1. The command unit shall be equipped with five (5) or ten (10) analog call station ports in order to support up to five (5) or ten (10) analog call stations.
2. Each analog call station interface port shall provide power to one (1) analog call station through one (1) twisted, shielded pair.
3. The command unit shall be equipped with a terminal block for the analog call station interface.

**B. Sub-Command Unit Interfaces**

1. The command unit shall be equipped with two (2) sub-command unit ports in order to support up to two (2) sub-command units.
2. The sub-command unit ports shall interface through a terminal block.

**C. Public Switched Telephone Network (PSTN) Interface**

1. The command unit shall be equipped with one (1) PSTN port.
2. The PSTN port shall interface through a terminal block.

**D. Relay Output Interfaces**

1. The command unit shall be equipped with five (5) relay output ports—each port is dedicated to indicate:
  - a. Call station active – this relay output (normally open, NO) will provide a contact closure when any call station is activated.
  - b. Power fault – this relay output (normally open, NO) will provide a contact closure when there is a loss in 24VDC power.
  - c. Battery fault – this relay output (normally open, NO) will provide a contact closure when the backup battery is disconnected or providing a low voltage output.
  - d. Ground fault – this relay output (normally open, NO) will provide a contact closure when a system ground fault is present.
  - e. Phone fault – this relay output (normally open, NO) will provide a contact closure when a short or open is present on any call station interface or PSTN connection.
2. The relay output ports shall interface through a terminal block.

**E. Battery Backup Interface**

1. The command unit shall be equipped with one (1) battery backup port.
2. The battery backup port shall interface through a terminal block.

**F. Primary Power Input Interface**

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1. The command unit shall be equipped with one (1) 24VDC input port.
2. The primary power input port shall interface through a terminal block.

**2.05 POWER REQUIREMENTS**

- A. The command unit shall be powered by one of the following power sources:
  1. Model AOR-PSU-5-10, an external Class 2 power supply with an input of 115VAC, 3.5A and an output of 24VDC, 2.5A;
  2. Or an external, regulated power supply providing an output of 24VDC, 2.5A.
- B. The command unit shall have a built-in battery backup.
  1. In the event of a power source failure, the built-in battery backup shall provide the entire system with up to twenty-four (24) hours of standby time followed by up to four (4) hours of full system operation.

**2.06 ENVIRONMENTAL**

- A. The command unit shall:
  1. Operate in a temperature range of +32°F (0°C) to +120°F (+49°C).
  2. Operate in a humidity range up to 95% RH (non-condensing).

**2.07 MANUFACTURED UNITS**

- A. The command unit shall be one of the following models:
  1. AOR-5, 5-Station Area of Refuge Command Unit;
  2. AOR-CSE-FM – Area of refuge analog station for landings
  3. AOR-PSU-5-10 - External power supply unit, 120vac/24vdc, 3.5Amp max.

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**4. PART 3 EXECUTION**

**3.01 INSTALLATION**

- A. The installer shall carefully follow instructions in documentation provided by the manufacturer to ensure all steps have been taken to provide a reliable, easy-to-operate system.
- B. All equipment shall be tested and configured in accordance with instructions provided by the manufacturer prior to installation.
- C. The command unit shall support surface mounting.
- D. The command unit shall be capable of supporting flush mounting through one of the following available trim ring models:
  - 1. AOR-TR10, flush mount trim ring for 5- or 10-Station Area of Refuge Command Units without door;
  - 2. Or AOR-TR10-D, flush mount trim ring for 5- or 10-Station Area of Refuge Command Units with door.

**END OF SECTION**

# Spanish Fort Community Center Elevator Addition

## Spanish Fort, Alabama

### Consultants

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### Code Information

**APPLICABLE CODES:**  
 2018 - INTERNATIONAL BUILDING CODE  
 2018 - INTERNATIONAL MECHANICAL CODE  
 2018 - INTERNATIONAL PLUMBING CODE  
 2018 - INTERNATIONAL FUEL GAS CODE  
 2015 - INTERNATIONAL ENERGY CONSERVATION CODE  
 2018 - INTERNATIONAL EXISTING BUILDING CODE  
 2020 NATIONAL ELECTRIC CODE  
 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN  
 ICC/ANSI A117.1 - 2009 EDITION

**PROJECT TYPE:** ELEVATOR ADDITION IN EXISTING BUILDING.  
 NO CHANGE IN EXISTING SQUARE FOOTAGE OR OCCUPANCY TYPE.  
**OCCUPANCY GROUP:** MIXED OCCUPANCY, NON SEPARATED:  
 BUSINESS, GROUP B (OFFICE)  
 ASSEMBLY, GROUP A-3 (LIBRARY)

**CONSTRUCTION CLASSIFICATION:** II-B, SPRINKLERED  
**ALLOWABLE BUILDING STORIES:** 2 STORIES      ACTUAL: 2 STORIES  
 (INCLUDES EXISTING LIBRARY MEZZANINE)  
**ALLOWABLE BUILDING HEIGHT:** 55'      ACTUAL: +/- 43'-0" EXISTING


1-HOUR RATED ELEVATOR SHAFT ENCLOSURE PER SECTION 713.4.

**TWO-WAY COMMUNICATION SYSTEM - SECTION 1009.8 - A TWO-WAY COMMUNICATION SYSTEM COMPLYING WITH SECTIONS 1009.8.1 AND 1009.8.2 SHALL BE PROVIDED AT THE LANDING SERVING EACH ELEVATOR OR BANK OF ELEVATORS ON EACH ACCESSIBLE FLOOR THAT IS ONE OR MORE STORIES ABOVE OR BELOW THE LEVEL OF EXIT DISCHARGE.**

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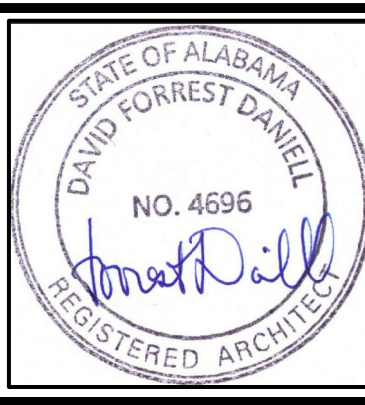
No.	Sheet Description
T001	Title Sheet / Index to Drawings
<b>ARCHITECTURAL</b>	
A101-1	Floor Plan - Level 1
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Spanish Fort Community Center  
 Elevator Addition  
 Spanish Fort, Alabama

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DATA	
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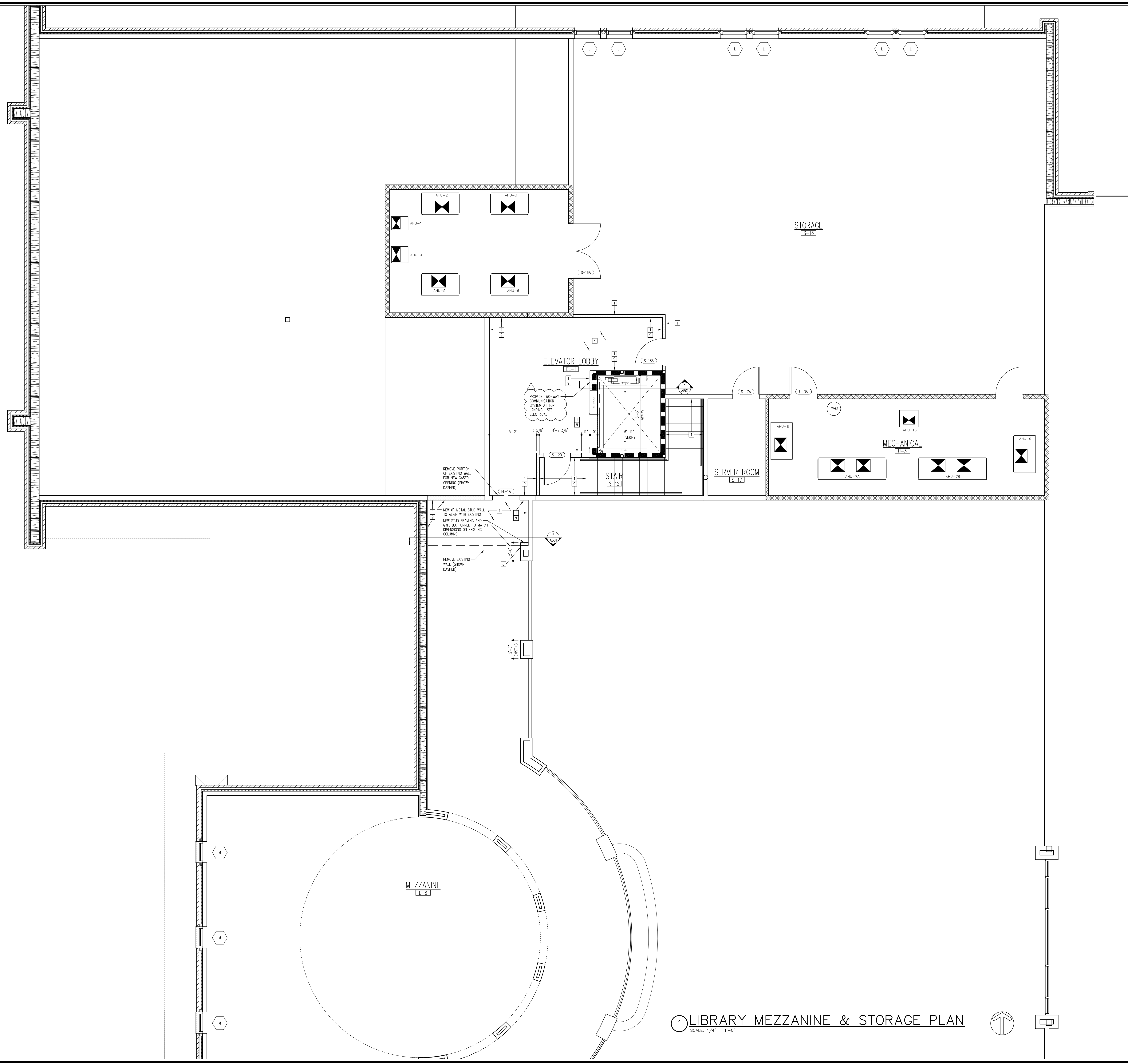
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FILE: FD23015  
 DATE: MARCH 14, 2024

**T001**  
 TITLE SHEET  
 INDEX TO DRAWINGS

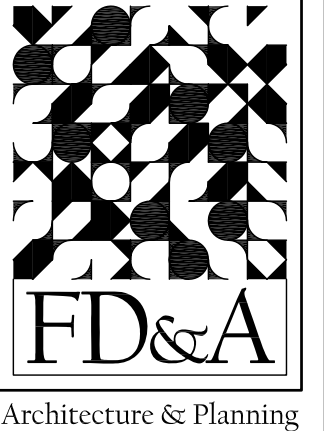




1 LIBRARY MEZZANINE & STORAGE PLAN  
 SCALE: 1/4" = 1'-0"

Spanish Fort Community Center  
 Elevator Addition  
 Spanish Fort, Alabama

FORREST DANIELL & Associates, P.C.

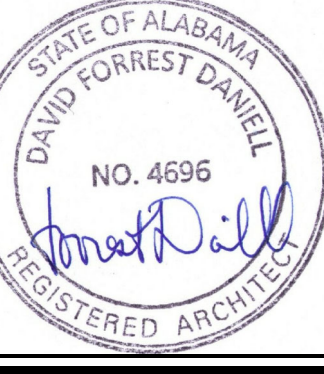


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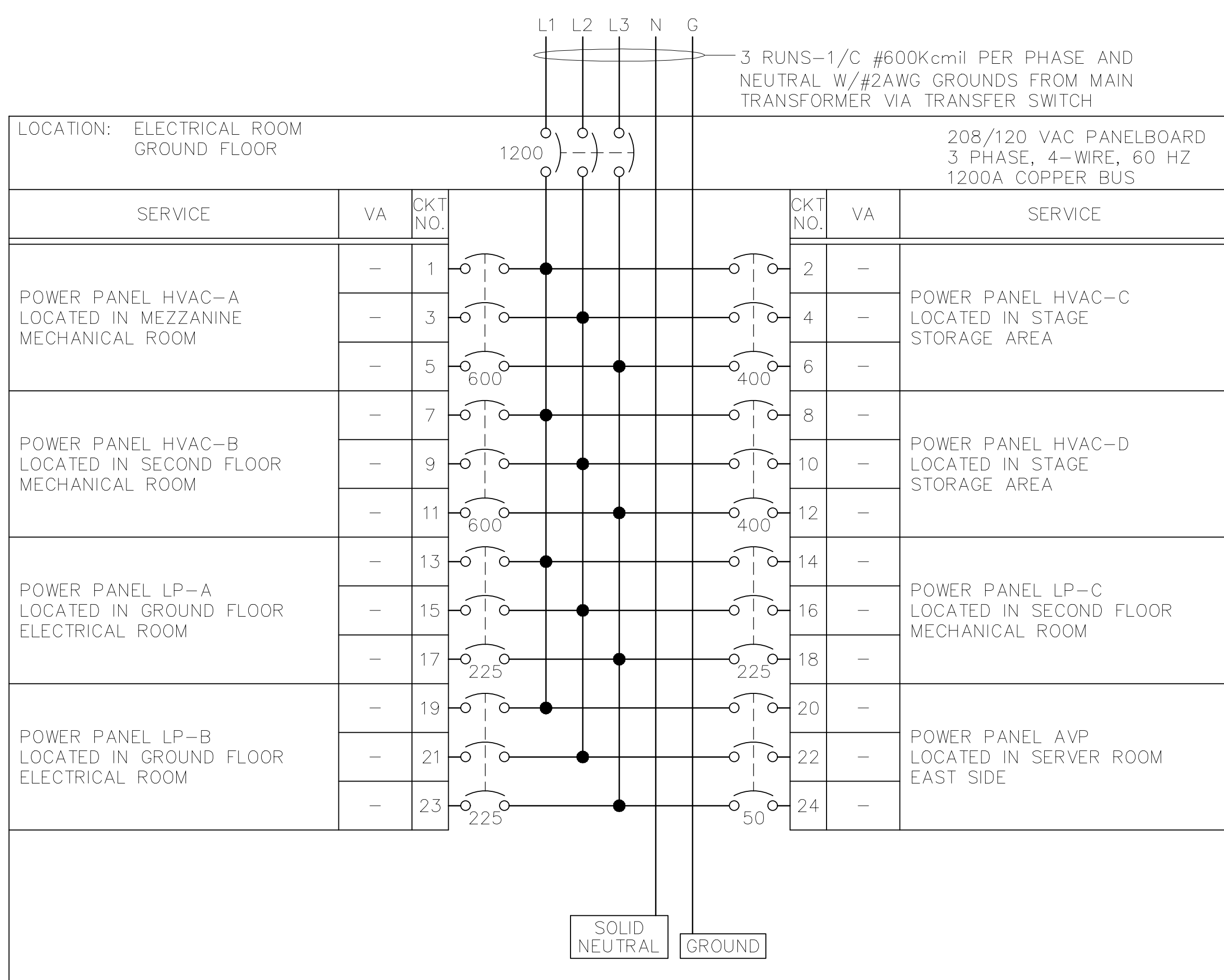
REVISIONS
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FILE: FD23015  
 DATE: MARCH 14, 2024

A102-1  
 FLOOR PLAN  
 LEVEL 2





PANEL IS NEMA 1, FREE-STANDING, 120/208VAC, 3-PHASE, 4-WIRE, BOTTOM FEED, 1200 AMP BUS, 1200 AMP MAIN BREAKER; GROUND BAR & SOLID NEUTRAL, COPPER BUS, 65K AIC, NAMEPLATE, FACTORY ASSEMBLED WITH BREAKERS AS SHOWN ABOVE.

### MAIN DISTRIBUTION PANEL SCHEDULE "MDP"

#### LEGEND

- |  |  |
|--|--|
| AHL AIR HANDLING UNIT (SEE MECHANICAL DWGS)        | RECEPTACLE, DUPLEX, 120V                                     |
| COS CO2 SENSOR (SEE MECHANICAL DWGS)               | RECEPTACLE, DUPLEX, 120V, FLOOR                              |
| CU CONDENSER UNIT (SEE MECHANICAL DWGS)            | RECEPTACLE, DUPLEX, 120V, GFI                                |
| DW DUMBWAITER (SEE ARCHITECTURAL DWGS)             | RECEPTACLE, DUPLEX, 120V, GFI, WEATHER-PROOF                 |
| FR FREEZER (SEE ARCHITECTURAL DWGS)                | DISCONNECT SWITCH, 120V                                      |
| EF1 EXHAUST FAN (SEE MECHANICAL DWGS)              | CAT 5 ETHERNET CABLE AND TELEPHONE OUTLET COMBINATION        |
| EF2 EXHAUST FAN (SEE MECHANICAL DWGS)              | CAT 5 ETHERNET CABLE AND TELEPHONE OUTLET COMBINATION, FLOOR |
| EWC ELECTRIC WATER COOLER (SEE PLUMBING DWGS)      | CAT 5 ETHERNET CABLE DUPLEX OUTLET                           |
| FD FOOD DISPOSER (SEE PLUMBING DWGS)               | CAT 5 ETHERNET CABLE DUPLEX OUTLET, FLOOR                    |
| GP GRINDER PUMP (SEE CIVIL DWGS)                   | LIGHT SWITCH, SINGLE   |
| RH RANGE EXHAUST HOOD (SEE ARCHITECTURAL DWGS)     | LIGHT SWITCH, THREE-WAY                                      |
| IM ICE MAKER (SEE ARCHITECTURAL DWGS)              | LIGHT SWITCH, FOUR-WAY                                       |
| MOD MOTOR OPERATED DAMPER (SEE MECHANICAL DWGS)    | LIGHT SWITCH, SINGLE W/DIMMER, LEVITON OR EQUAL              |
| RD MOTORIZED ROLL-UP DOOR (SEE ARCHITECTURAL DWGS) | LIGHT SWITCH, THREE-WAY W/DIMMER, LEVITON OR EQUAL           |
| RF REFRIGERATOR (SEE ARCHITECTURAL DWGS)           |  |
| RG RANGE (SEE ARCHITECTURAL DWGS)                  |  |
| WD WARMING DRAWER (SEE ARCHITECTURAL DWGS)         |  |
| WH WATER HEATER (SEE MECHANICAL DWGS)              |  |
| SP SUMP PUMP (SEE MECHANICAL DWGS)                 |  |

#### 1.03 GENERAL SPECIFICATIONS

- The electrical contractor shall install, wire and terminate all electrical devices per the drawings and this specification.
- The work covered by this section of the specifications consists of furnishing all labor, equipment, tools, materials not furnished by others, insurance and permits, performing all operations and paying all costs in connection with the electrical installation in strict accordance with these specifications and the applicable drawings and subject to the terms and conditions of the contract.
- The electrical contractor shall install a complete operable system within his scope of work including all required parts whether or not they are called out in this specification or shown on the drawings.
- The electrical contractor shall install a complete system of wiring for the all power distribution. Power distribution includes all devices, etc. as called out on the drawings.
- The electrical contractor shall install a complete system of wiring for the grounding system. The new electrical grounding system shall be tied into the existing ground grid system.

#### 1.04 DRAWINGS

- The drawings indicate a general arrangement of all equipment and appurtenances and shall be followed as closely as possible. The electrical contractor shall coordinate with other contractors for exact location of devices.

#### 1.05 CODES AND STANDARDS

- All materials and workmanship shall comply with all applicable codes and industry standards.

- The following codes, specifications and standards form a part of these specifications.

- National Electrical Code (2020 Edition)
- Local, City and State Codes and Ordinances
- National Electrical Safety Code
- Underwriters Laboratories (UL)
- National Electrical Manufacturers Association (NEMA)
- American National Standards Institute (ANSI)
- Insulated Power Cable Engineers Association (IPCEA)
- Local Utilities Requirements
- Occupational Safety and Health Act (OSHA)

- If the electrical contractor performs any work that does not comply with the requirements of the applicable building codes, State laws, local ordinances, industry standards, and utility company regulations, he shall bear all costs arising in correcting the deficiencies.

#### 1.06 COORDINATION OF WORK

- The electrical contractor shall compare the electrical drawings and specifications with the drawings and specifications for other trades and report any discrepancies between them to architect. Discrepancies shall be called to the attention of the architect/engineer before work is installed. No work, which is to be installed, shall be laid out according to figured dimensions when work already installed may govern these dimensions. Contractor shall coordinate his work with other trades to avoid interference's and shall bring these interference's to the attention of the architect/engineer before installation progresses.
- The electrical contractor shall install all materials and equipment to allow access and clearances for equipment operation and in accordance with Codes and Standards (space requirements). The installation shall be made in such a manner that the many components will function as a completely operable system including any accessories required to accomplish such installation. Equipment shall be left properly adjusted and in good working order. Work shall be executed in conformity with the best acceptable standard practices, with equipment being installed to be readily accessible for operating, servicing, maintaining, and repairing. The installation shall be such that future installations and expansions may be made with a minimum of expenditure. Contractor shall utilize only competent, skilled workmen in handling and/or installing all equipment and materials specified.

#### 1.07 INSPECTIONS PERMITS AND FEES

- The Contractor shall give all necessary notices, obtain and pay for all permits, including taxes, fees or other costs pertaining to his work; obtain and prepare all documents and secure all necessary approvals required by Governmental Departments and obtain all certificates of final inspection. All material, labor, services, apparatus, drawings, etc., required for the necessary approvals shall be furnished.

#### 1.08 SUPERVISION OF WORK

- All Electrical construction work shall be installed under the direction of a competent supervisor who will be at the job site at all times when electrical installations are being made.

#### PART 2 - EQUIPMENT AND MATERIALS

##### 2.01 GENERAL

- All equipment and materials shall be new and shall bear the manufacturers name, trade name and UL label.
- Equipment and materials shall be delivered to the site and stored in original containers until installed. All equipment and materials shall be protected from the elements.
- The electrical contractor shall be responsible for insuring that all equipment and materials to be furnished can be properly installed in the space provided.
- The manufacturers printed instructions shall be followed in installing all equipment and materials. The electrical contractor shall notify the engineer if the plans and specifications and the manufacturers printed instructions conflict on installation instructions.
- The electrical contractor shall provide proper structural support for all equipment if required.

##### 2.02 EQUIPMENT DATA AND SHOP DRAWINGS

- The engineer shall approve all equipment and materials. No substitutions to the specifications are allowed unless approved by the engineer.

- Any deviations approved by the engineer shall be coordinated with other trades that may be affected by the deviations.

##### 2.03 CONDUCTORS, CONDUIT AND FITTINGS

- All conductors shall be copper.
- No aluminum conductors will be allowed.
- All conduits shall comply with ANSI Standard C80.

##### 2.04 WIRING DEVICES

- See drawings for wiring device specifications.
- All convenience receptacles if installed shall be rated for 20 Amps and be UL listed. If convenience receptacles are located outdoors then they shall be protected by a GFCI circuit breaker and be waterproof.

##### 2.05 SAFETY SWITCHES

- Safety switches if installed for equipment shall be NEMA 12 (general duty type) if mounted indoors and NEMA 3R if mounted outdoors.

##### 2.06 PANEL BOARDS

- All panel boards shall be UL listed with the ratings specified on the drawings.
- Panel directories shall be provided on the inside door of the Panel board. Directory shall be neatly typed with description of service.

- Panel boards shall have copper bus bars. All panel boards shall have a neutral bus bar and ground bus bar. All panel boards shall be NEMA 12 (general duty type) if mounted indoors unless noted otherwise on Panel Schedules and NEMA 3R if mounted outdoors.

#### PART 3 - INSTALLATION

##### 3.01 GENERAL

- All installations shall be in accordance with the National Electrical Code (NFPA Latest Edition).
- All installations shall be in accordance with local and state codes.
- All devices shall be securely mounted per the manufacturer's instructions.

##### 3.02 WIRING METHODS

- Wiring shall be installed in accordance with the National Electrical Code, Chapter 3.

##### 3.03 CONDUIT

- Rigid PVC Coated Galvanized Steel Conduit shall be used for all outdoor overhead circuits, underground in areas with heavy vehicular traffic, and where conduit elbows turn up from underground if necessary. EMT Conduit shall be used for all indoor circuits.

- All underground circuits shall be installed in accordance with NEC, Article 300-5.
- Schedule 80 PVC conduits shall be used in all underground locations unless noted otherwise.

- All conduits shall be properly supported utilizing pipe straps or hangers.
- All conduits shall be installed in a neat and workmanlike manner. Multiple conduits shall be run in parallel.
- Conduits shall be securely fastened to all devices (lights, receptacles, outlet boxes, junction boxes, etc) utilizing double locknuts and bushings.

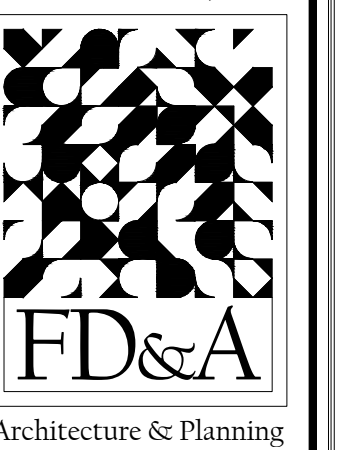
- Short pieces of flexible conduit shall be used for connection to motors and similar equipment subject to vibrations.

##### 3.04 GROUNDING

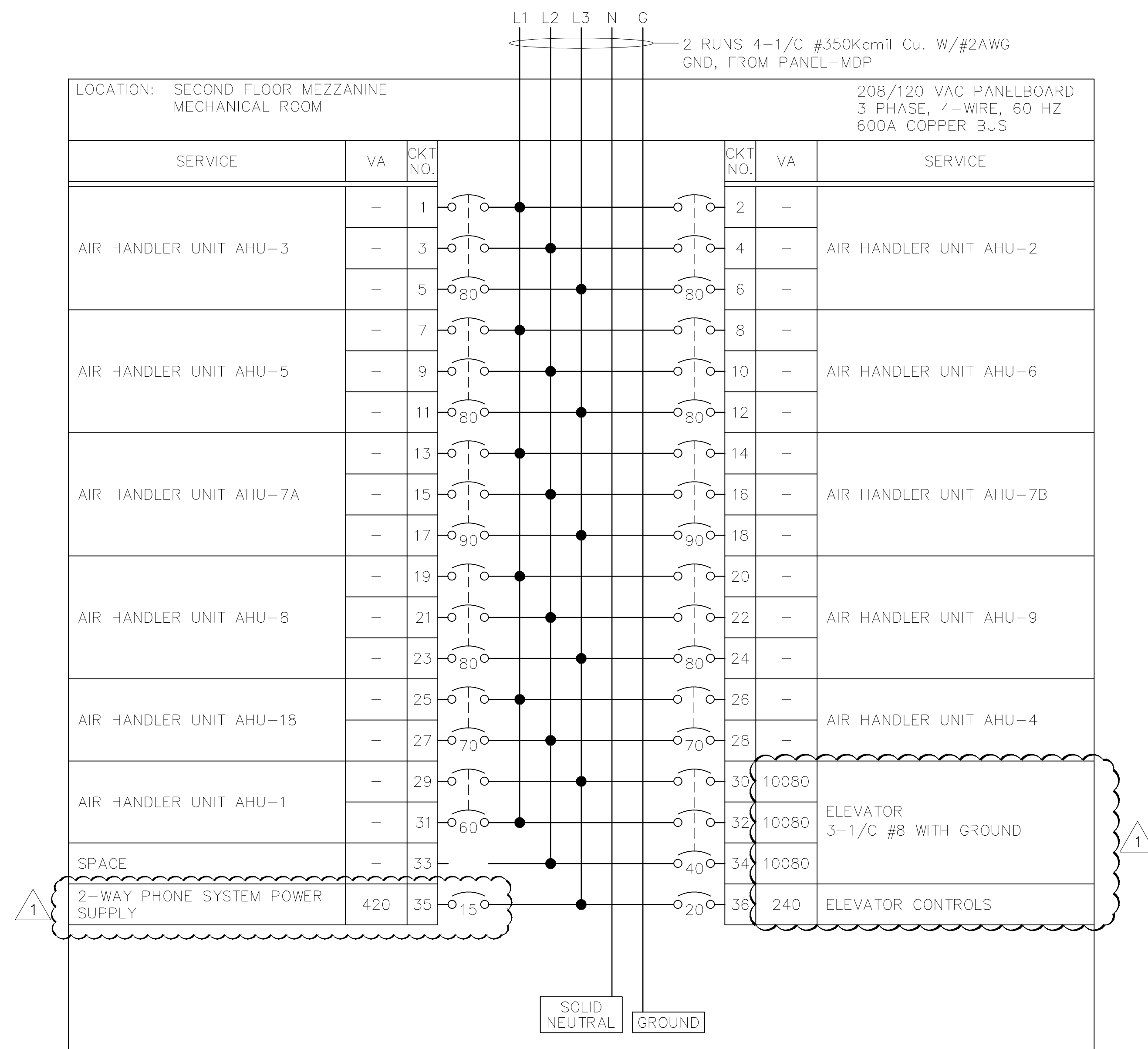
- A complete ground system shall be installed.
- Grounding shall be in accordance with Article 250 of the National Electrical Code.
- Grounding shall be in accordance with all local and state codes.

##### 3.05 TESTS

- The electrical contractor shall test the ground system. The resistance to ground shall not exceed five ohms.
- All AC wiring shall be tested to verify that no short circuits or accidental grounds exist.
- The electrical contractor shall operate all devices called out in this specification or on the drawings for proper operation. Any device not operating properly shall be reported to the engineer.

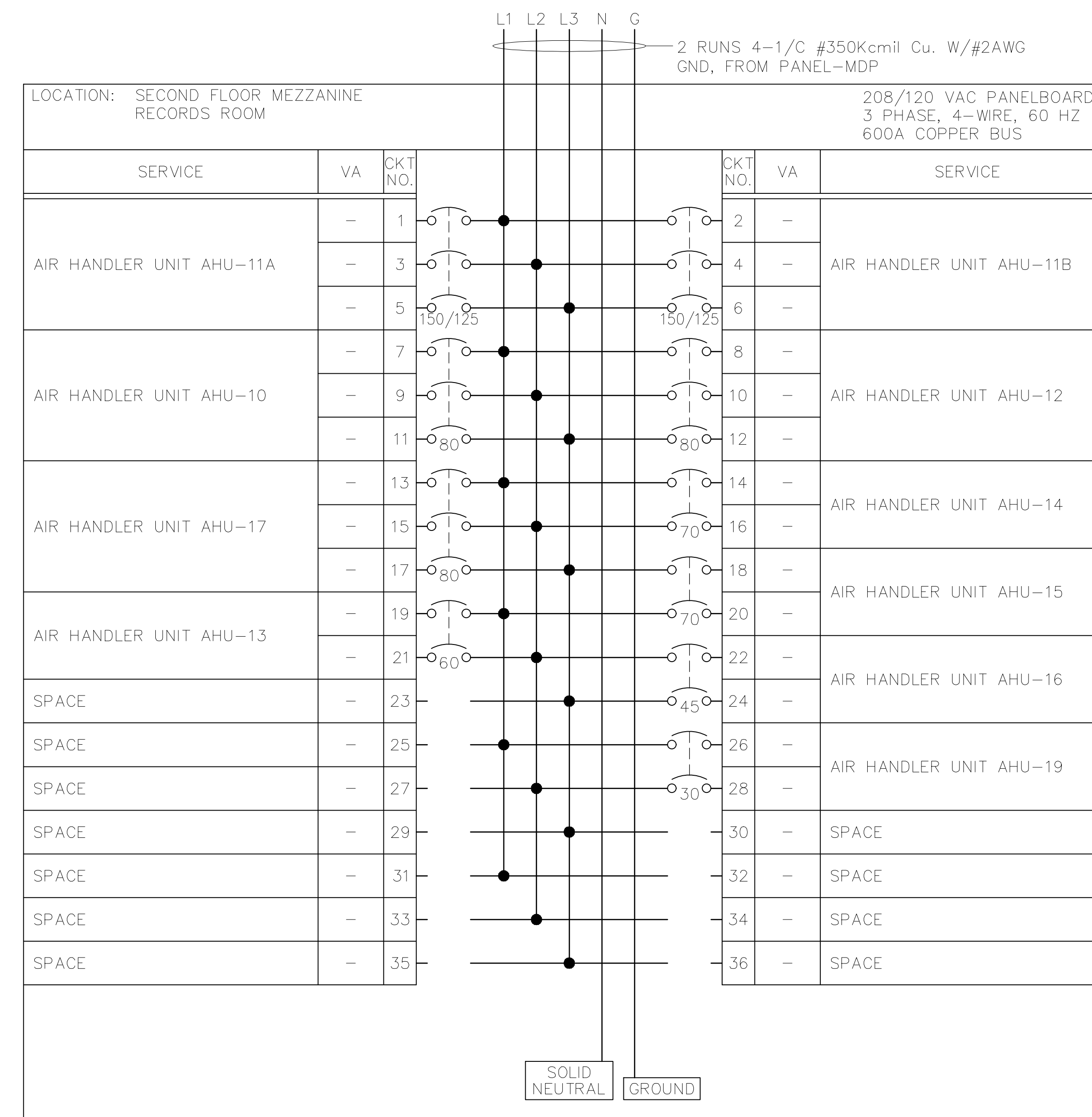






PANEL IS NEMA 1, SURFACE MOUNT, 120/208V, 3-PHASE, 4-WIRE, 36 SPACES, WITH TOP FEED 600 AMP BUS, MAIN LUG ONLY; GROUND BAR & SOLID NEUTRAL, COPPER BUS, 65K AIC, NAMEPLATE, FACTORY ASSEMBLED WITH BREAKERS AS SHOWN ABOVE.  
 \* NOTE: ALL BREAKERS SHALL BE HVAC RATED TYPE HACR.

POWER PANEL SCHEDULE "HVAC-A"



PANEL IS NEMA 1, SURFACE MOUNT, 120/208V, 3-PHASE, 4-WIRE, 36 SPACES, WITH TOP FEED 600 AMP BUS, MAIN LUG ONLY; GROUND BAR & SOLID NEUTRAL, COPPER BUS, 65K AIC, NAMEPLATE, FACTORY ASSEMBLED WITH BREAKERS AS SHOWN ABOVE.  
 \* NOTE: ALL BREAKERS SHALL BE HVAC RATED TYPE HACR.

POWER PANEL SCHEDULE "HVAC-B"

NOTES AND POWER CONDUCTOR SIZES

1. ALL DEVICES FOR THIS PROJECT SHALL BE RATED 75 DEGREES C.

2. ALL CONDUCTORS FOR THIS PROJECT SHALL BE SIZE #12 AWG CU MINIMUM AND HAVE A MINIMUM TEMPERATURE RATING OF 75 DEGREES C.

3. ELECTRICAL CONTRACTOR SHALL PROVIDE GROUNDING FOR THE PANELBOARDS AND THE ENTIRE PROJECT PER ARTICLE 250 OF THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE.

4. CONTRACTOR TO PROVIDE GFI RECEPTACLES IN BATHROOM, KITCHENS AND PORCHES.

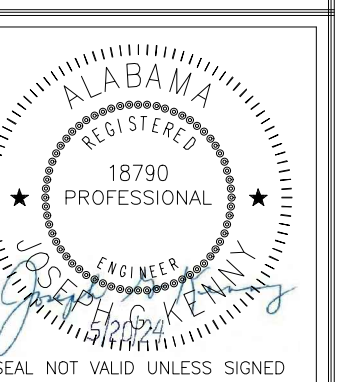
5. ELECTRICAL CONTRACTOR SHALL INSTALL ALL PANELBOARDS, DISCONNECT SWITCHES, AND METERING UNITS IN ACCORDANCE WITH ARTICLE 110 OF THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE. A MINIMUM OF 3'-1/2' OF WORKING SPACE SHALL BE MAINTAINED IN FRONT OF ALL ELECTRICAL EQUIPMENT.

1. CLOUDED AREAS SHOWN ON DRAWING ARE ASSOCIATED WITH ELEVATOR ADDITION PROJECT

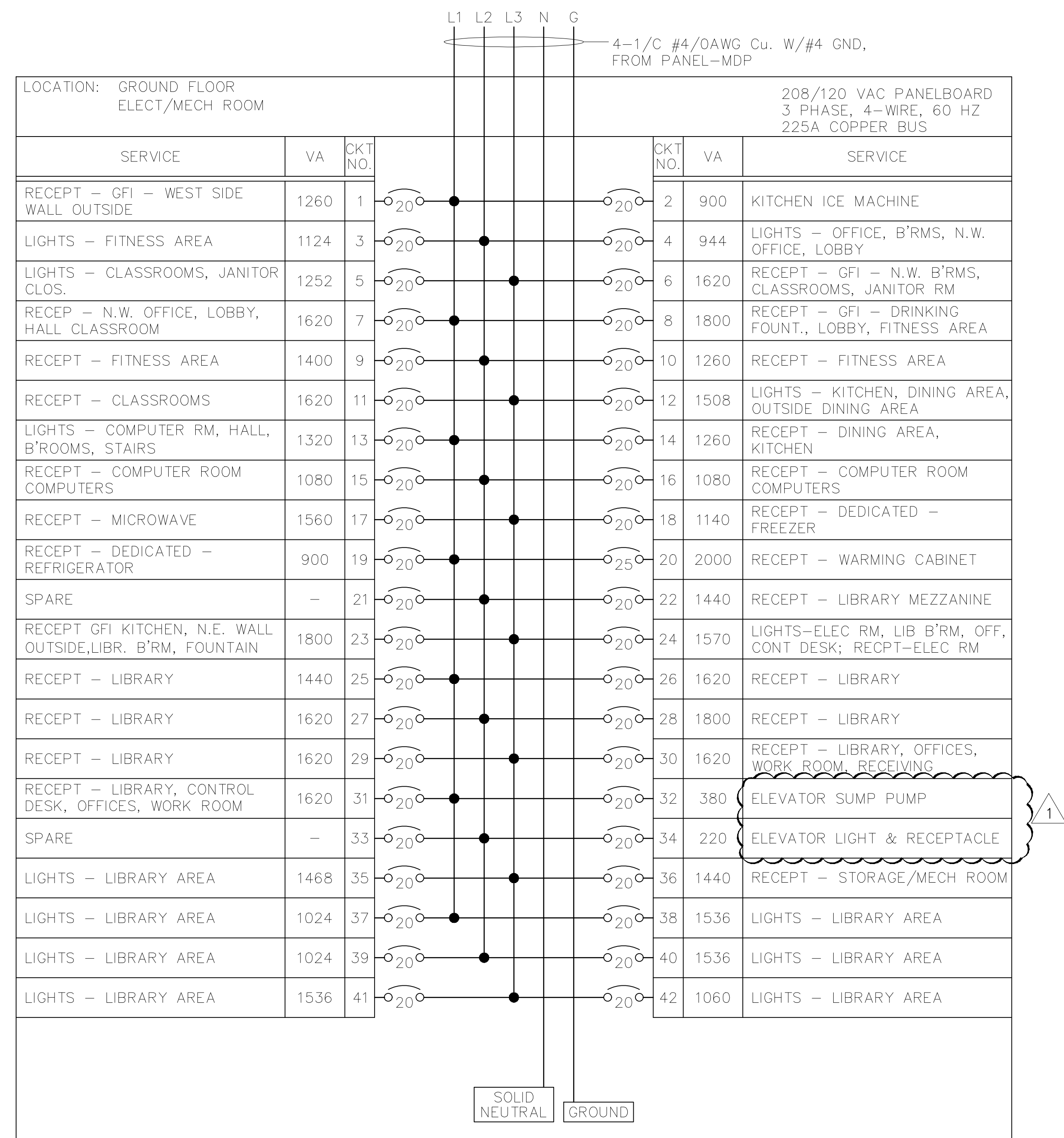
FORREST DANIELL & Associates, P.C.  
  
 Architecture & Planning  
 8007 American Way  
 Daphne, AL 36526  
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 (251) 625-6494 fax  
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3/14/24 REVISED FOR ELEVATOR ADDITION
3/20/24 ADA REVISIONS

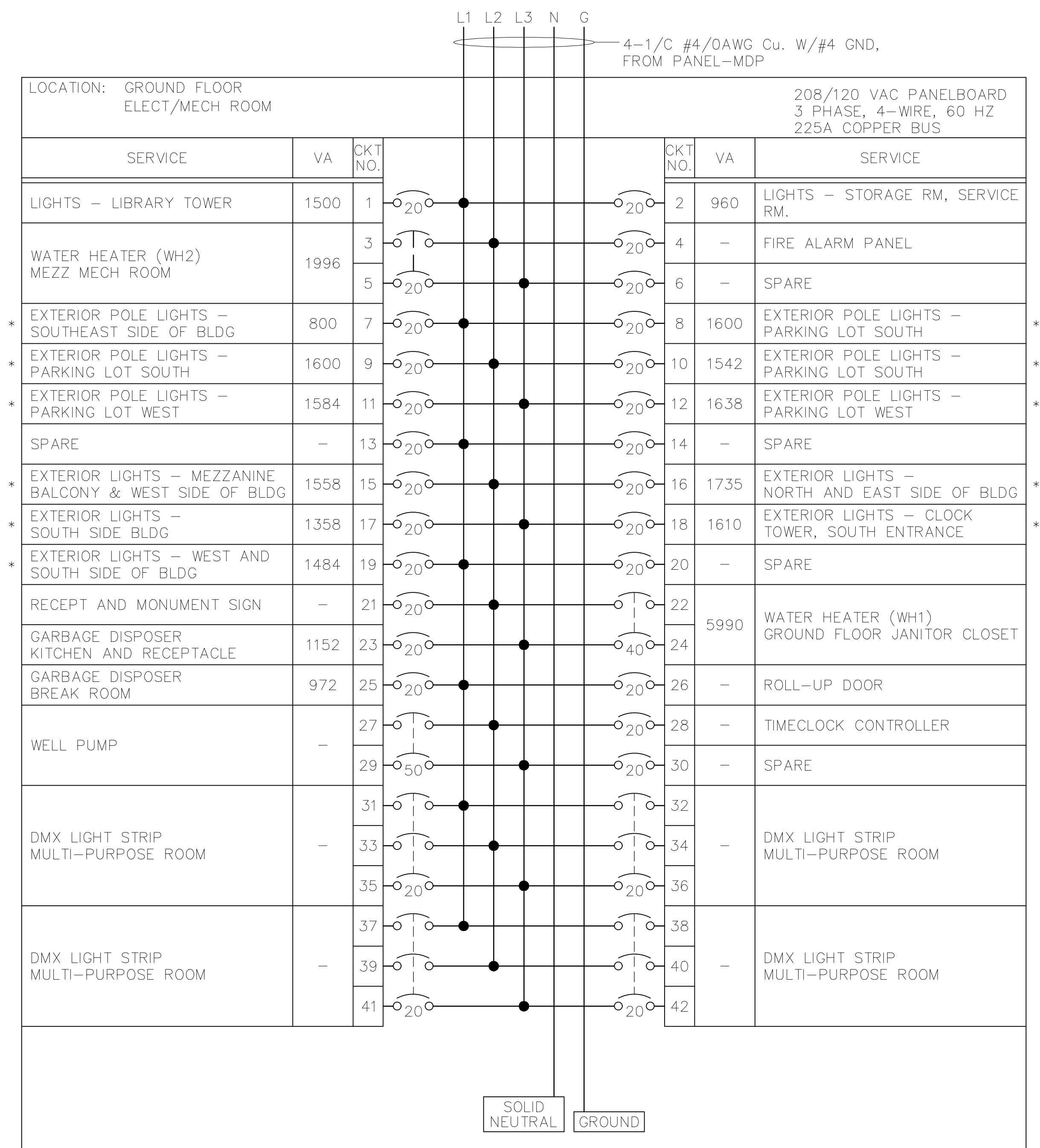


FILE: FD23015
DATE: FEBRUARY 21, 2024



PANEL IS NEMA 1, SURFACE MOUNT, 120/208V., 3-PHASE, 4-WIRE, 42 SPACES, WITH TOP FEED 225 AMP BUS, MAIN LUG ONLY; GROUND BAR & SOLID NEUTRAL, COPPER BUS, 65K AIC, NAMEPLATE, FACTORY ASSEMBLED WITH BREAKERS AS SHOWN ABOVE.

LIGHTING PANEL SCHEDULE "LP-A"



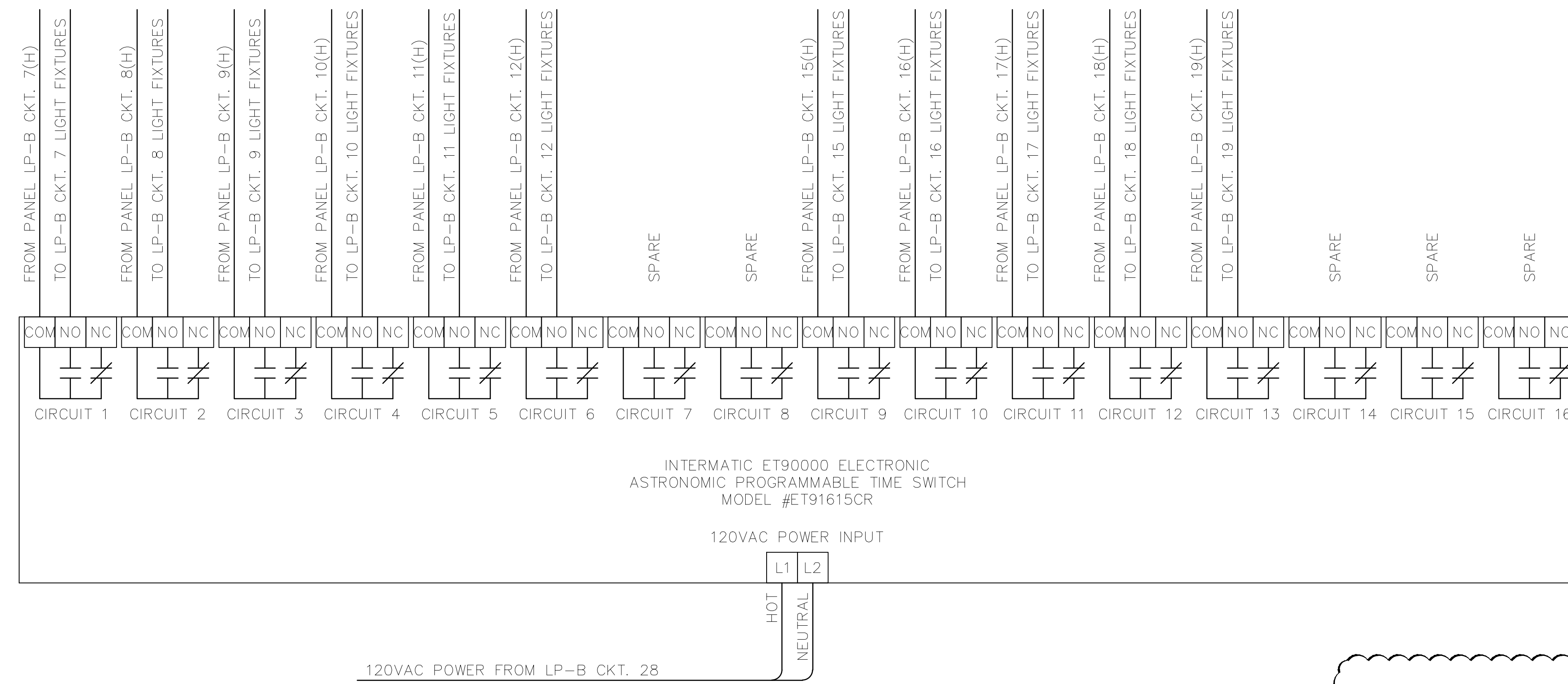
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LIGHTING PANEL SCHEDULE "LP-B"

\* INDICATES THAT FIXTURES ARE CONTROLLED BY PROGRAMMABLE TIME SWITCH (BELOW)

NOTES AND POWER CONDUCTOR SIZES

- ALL DEVICES FOR THIS PROJECT SHALL BE RATED 75 DEGREES C.
- ALL CONDUCTORS FOR THIS PROJECT SHALL BE SIZE #12 AWG CU MINIMUM AND HAVE A MINIMUM TEMPERATURE RATING OF 75 DEGREES C.
- ELECTRICAL CONTRACTOR SHALL PROVIDE GROUNDING FOR THE PANELBOARDS AND THE ENTIRE PROJECT PER ARTICLE 250 OF THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE.
- CONTRACTOR TO PROVIDE GFI RECEPTACLES IN BATHROOM, KITCHENS AND PORCHES.
- ELECTRICAL CONTRACTOR SHALL INSTALL ALL PANELBOARDS, DISCONNECT SWITCHES, AND METERING UNITS IN ACCORDANCE WITH ARTICLE 110 OF THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE. A MINIMUM OF 3'-1/2' OF WORKING SPACE SHALL BE MAINTAINED IN FRONT OF ALL ELECTRICAL EQUIPMENT.



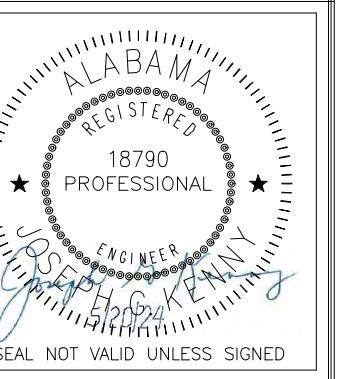
PROGRAMMABLE TIME SWITCH "LC-1"

CLOUDED AREAS SHOWN ON DRAWING ARE ASSOCIATED WITH ELEVATOR ADDITION PROJECT

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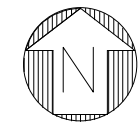
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REVISIONS
3/14/24 REVISOR FOR ELEVATOR ADDITION
3/20/24 ADA REVISIONS



FILE: FD23015
DATE: FEBRUARY 21, 2024

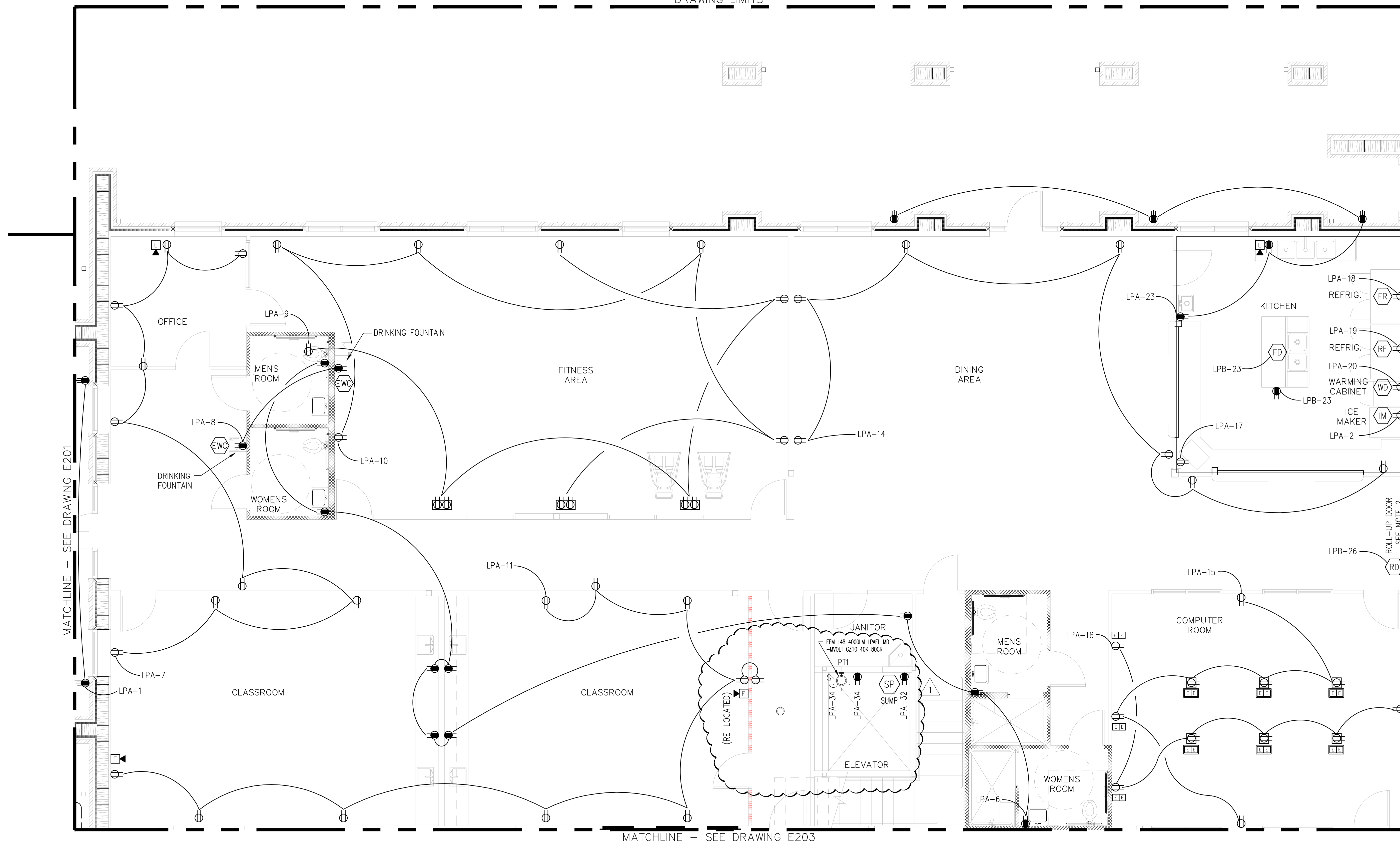




GENERAL NOTES

1. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES.
2. ELECTRICAL CONTRACTOR TO CONNECT POWER AND PROVIDE WALL JUNCTION BOX TO OPEN MOTORIZED ROLL-UP DOOR. ELECTRICAL CONTRACTOR SHALL CONNECT CONTROL WIRING PER VENDOR WIRING DIAGRAMS.
3. ALL NETWORK AND TELEPHONE CAT 5 WIRING TO BE ROUTED TO A/V SERVER ROOM FOR TERMINATIONS.

DRAWING LIMITS



MATCHLINE - SEE DRAWING E203

POWER PLAN

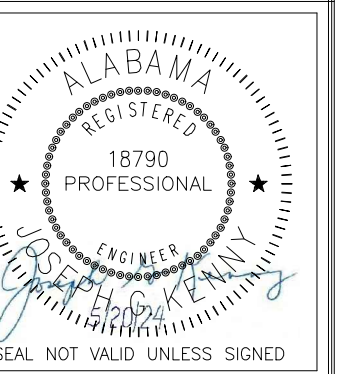
1. CLOUDED AREAS SHOWN ON DRAWING ARE ASSOCIATED WITH ELEVATOR ADDITION PROJECT

Spanish Fort Community Center  
Elevator Addition  
Spanish Fort, Alabama

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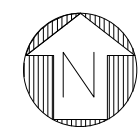
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REVISIONS
3/14/24 REVISED FOR ELEVATOR ADDITION
5/20/24 ADA REVISIONS



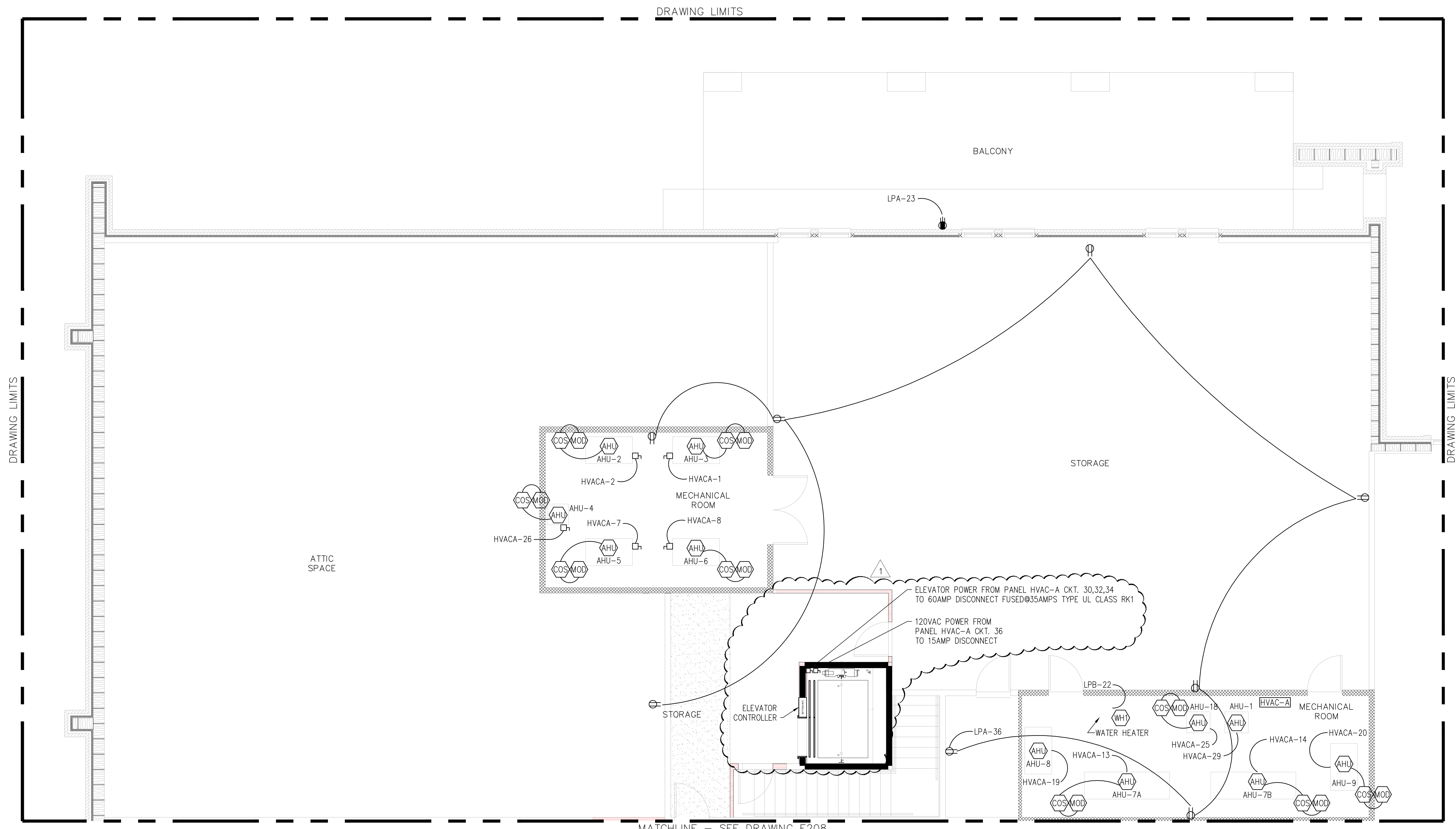
FILE: FD23015  
DATE: FEBRUARY 21, 2024

E202  
POWER PLAN



GENERAL NOTES

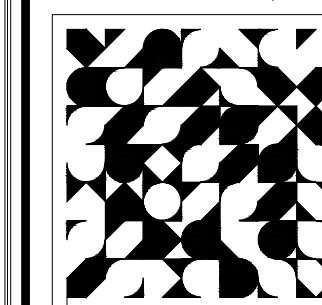
1. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES.



MEZZANINE POWER PLAN

Spanish Fort Community Center  
Elevator Addition  
Spanish Fort, Alabama

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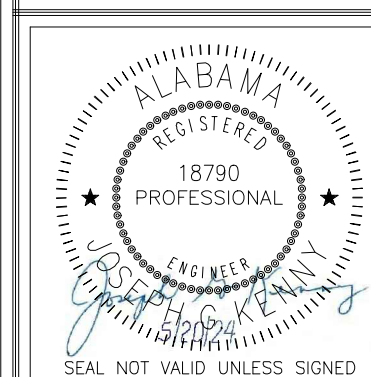
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FILE NAME: POWER PLANS
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REVISIONS
3/14/24 REVISED FOR ELEVATOR ADDITION
3/20/24 ADA REVISIONS

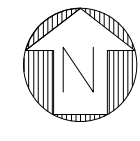


FILE: FD23015  
DATE: FEBRUARY 21, 2024

1. CLOUDED AREAS SHOWN ON DRAWING ARE ASSOCIATED WITH ELEVATOR ADDITION PROJECT

E207  
MEZZANINE POWER PLAN

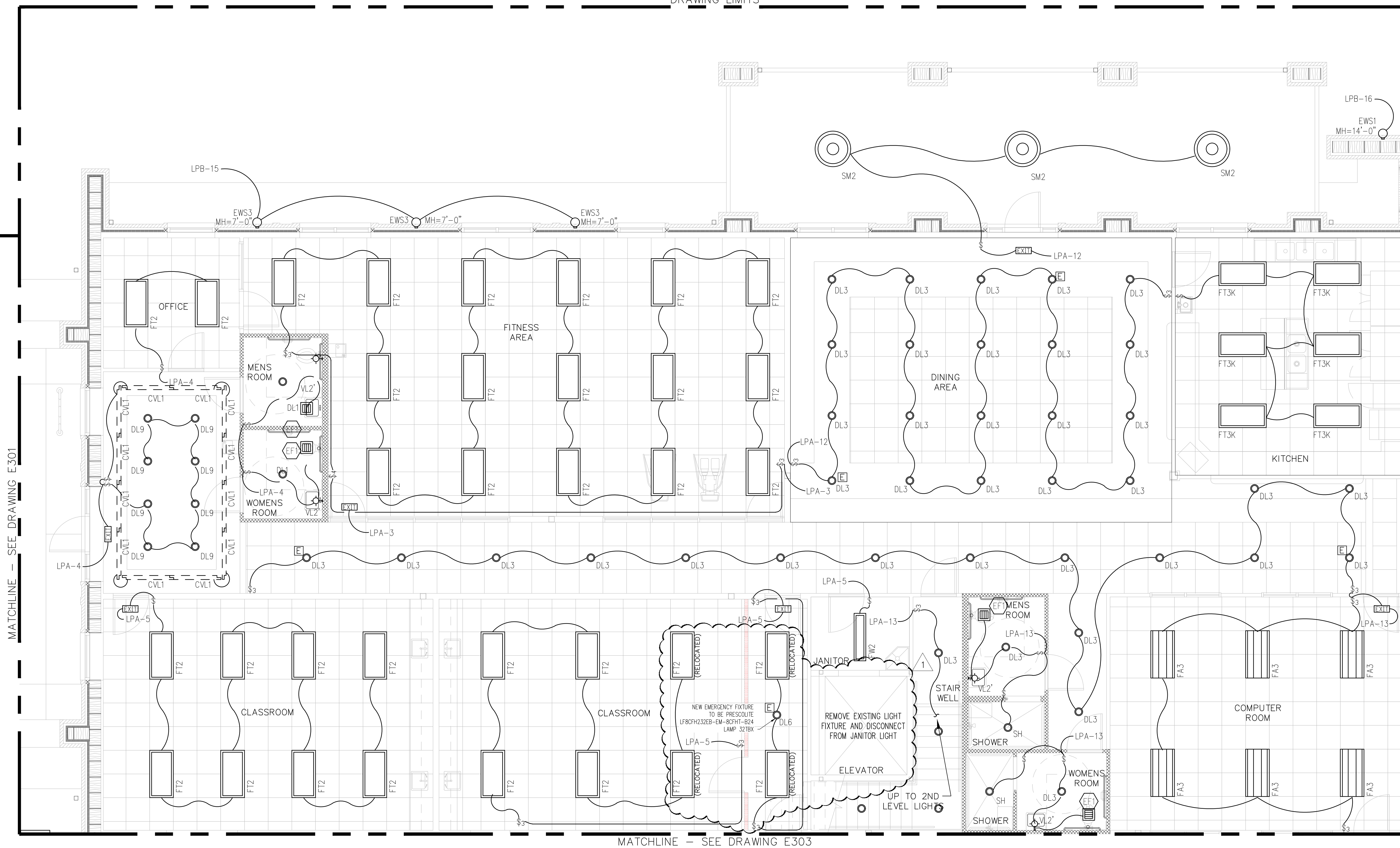




GENERAL NOTES

1. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES.

DRAWING LIMITS



MATCHLINE - SEE DRAWING E303

LIGHTING PLAN

1. CLOUDED AREAS SHOWN ON DRAWING ARE ASSOCIATED WITH ELEVATOR ADDITION PROJECT

Spanish Fort Community Center  
Elevator Addition  
Spanish Fort, Alabama

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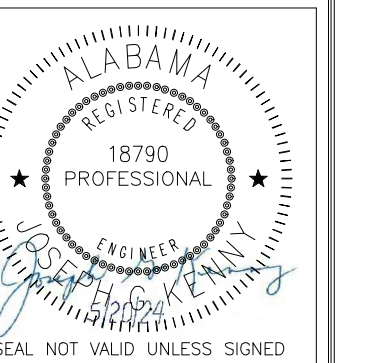
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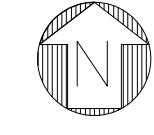
REVISIONS
3/14/24 REVISED FOR ELEVATOR ADDITION
3/20/24 ADA REVISIONS



FILE: FD23015  
DATE: FEBRUARY 21, 2024

E302  
LIGHTING PLAN





MATCHLINE - SEE DRAWING E302

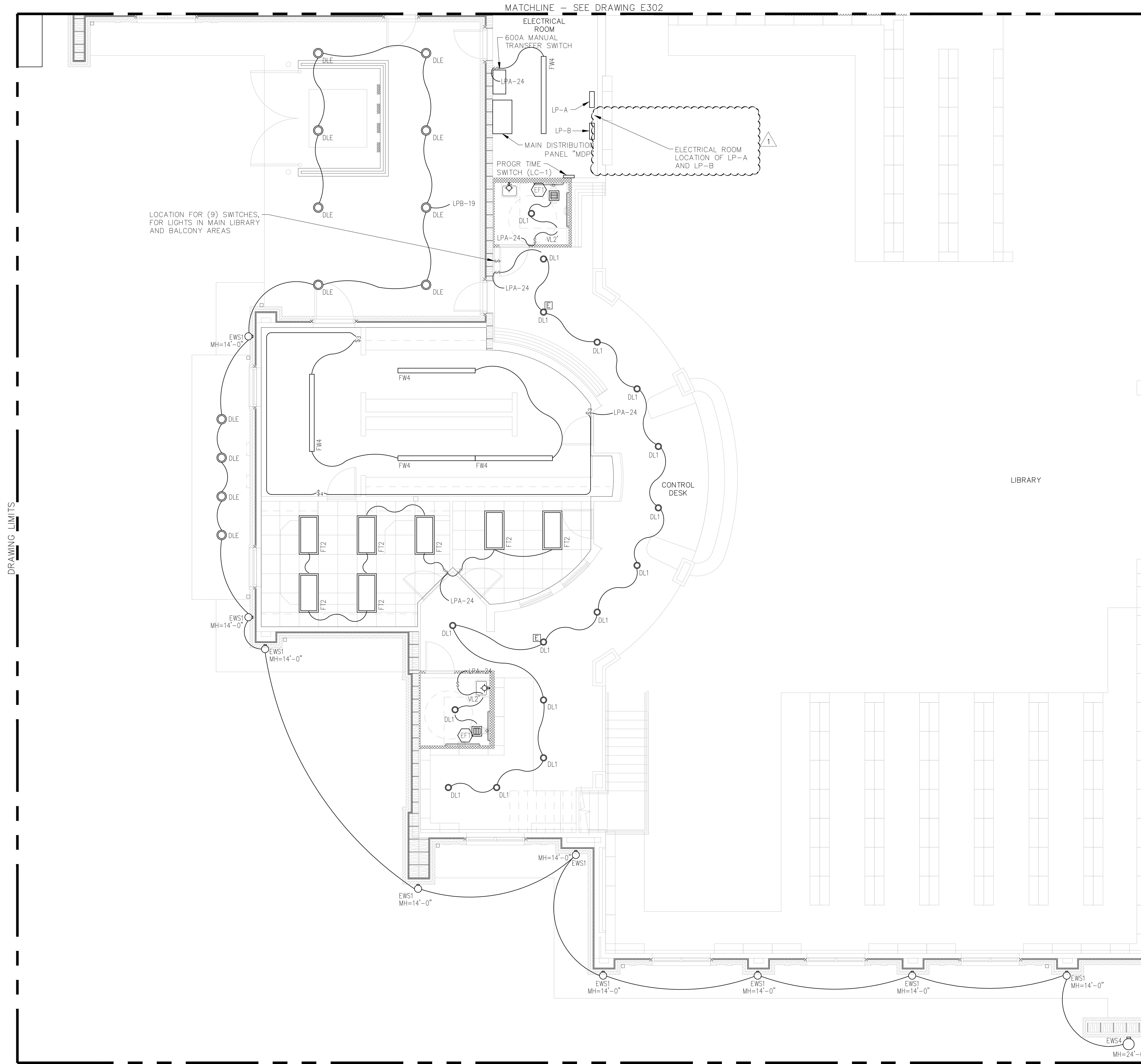
GENERAL NOTES

1. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES.

DRAWING LIMITS

MATCHLINE - SEE DRAWING E304

MATCHLINE - SEE DRAWING E305



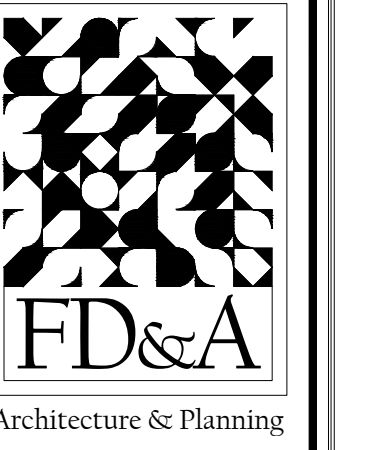
DRAWING LIMITS

LIGHTING PLAN

1. CLOUDED AREAS SHOWN ON DRAWING ARE ASSOCIATED WITH ELEVATOR ADDITION PROJECT

Spanish Fort Community Center  
Elevator Addition  
Spanish Fort, Alabama

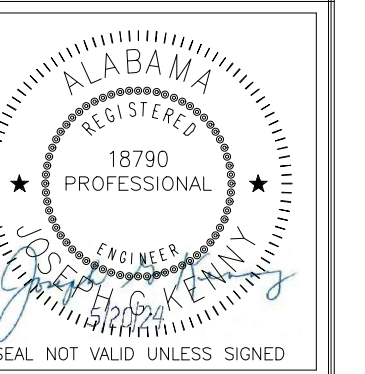
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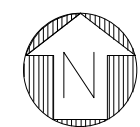
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REVISIONS  
05/20/24 ADA REVISIONS



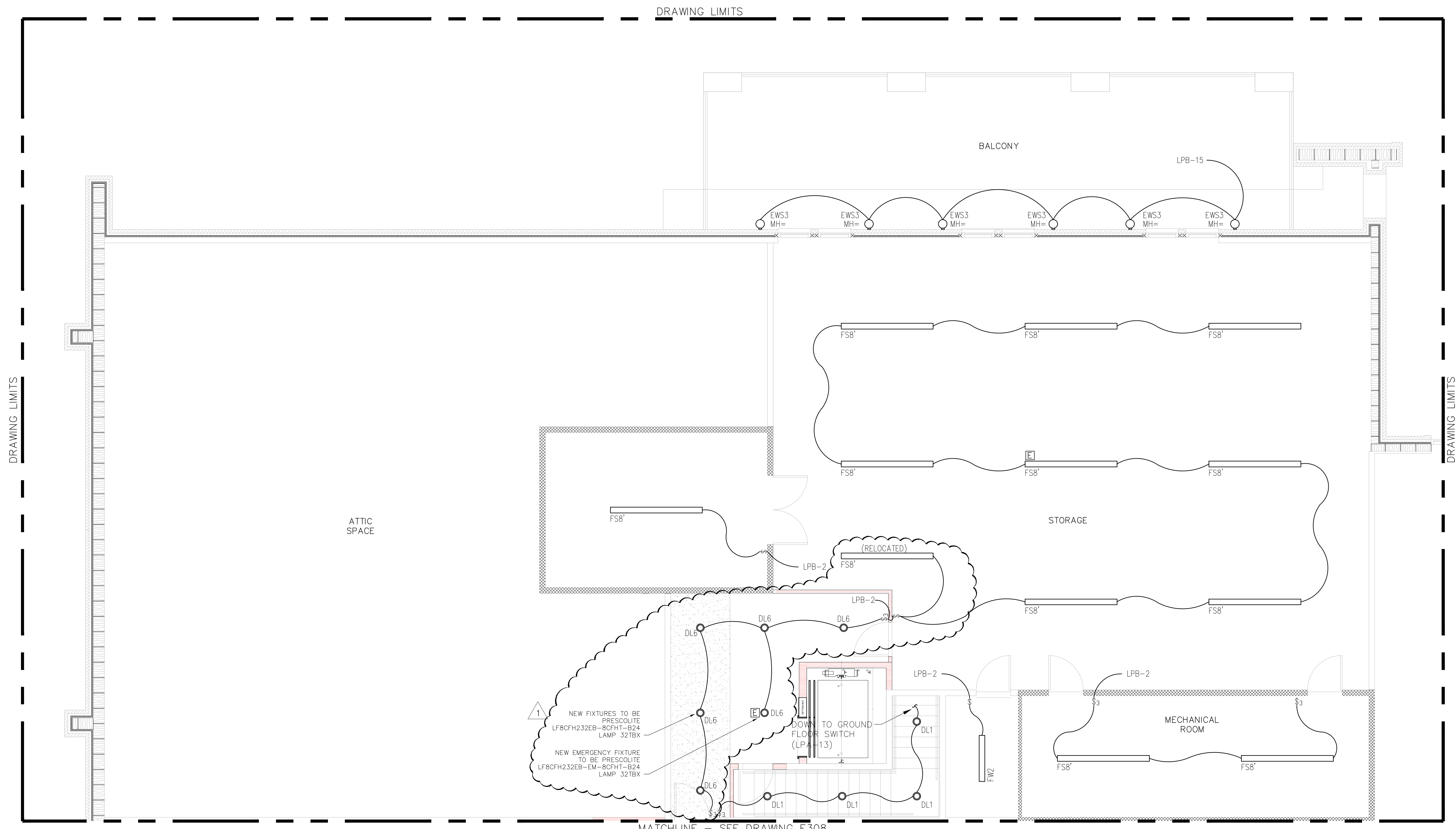
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DATE: FEBRUARY 21, 2024

E303  
LIGHTING PLAN



GENERAL NOTES

1. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES.



DRAWING LIMITS

DRAWING LIMITS

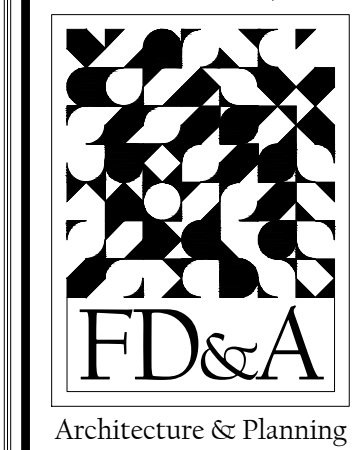
DRAWING LIMITS

MATCHLINE - SEE DRAWING E308

MEZZANINE LIGHTING PLAN

Spanish Fort Community Center  
Elevator Addition  
Spanish Fort, Alabama

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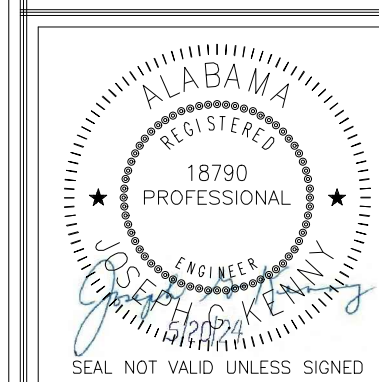


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DATA
SCALE: 1/4"
FILE NAME: LIGHTING PLANS
SKK

REVISIONS
3/14/24 REVISED FOR ELEVATOR ADDITION
3/20/24 ADA REVISIONS



FILE: FD23015  
DATE: FEBRUARY 21, 2024

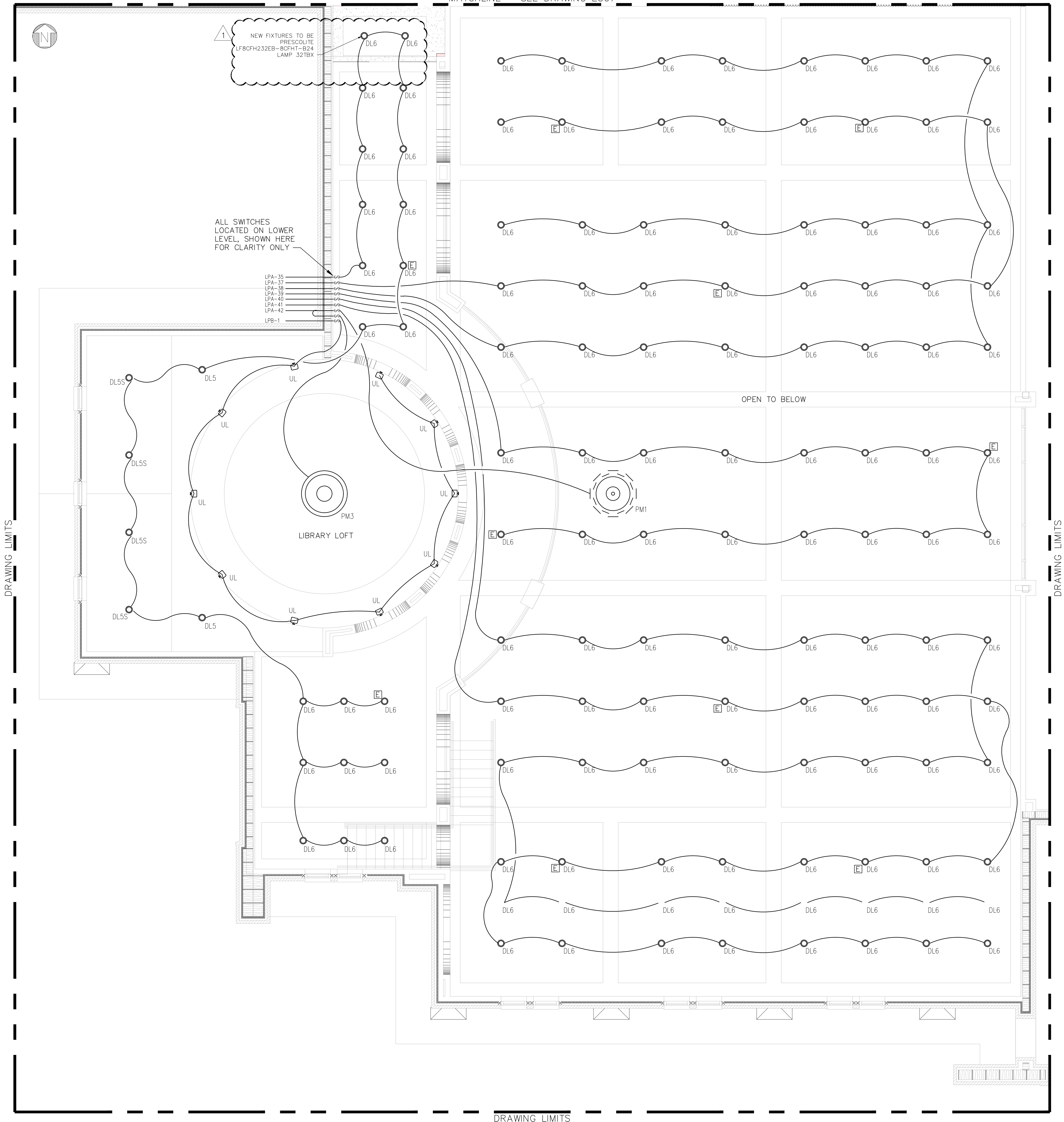
1. CLOUDED AREAS SHOWN ON DRAWING ARE ASSOCIATED WITH ELEVATOR ADDITION PROJECT



MATCHLINE - SEE DRAWING E307

GENERAL NOTES

1. ALL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRIC CODE AND ALL STATE AND LOCAL CODES.



ALL SWITCHES LOCATED ON LOWER LEVEL, SHOWN HERE FOR CLARITY ONLY

- LPA-35
- LPA-37
- LPA-38
- LPA-39
- LPA-40
- LPA-41
- LPA-42
- LFB-1

NEW FIXTURES TO BE PRESCOLITE  
LF8CFH232EB-SCHT1-B24  
LAMP 32TBX

LIBRARY LOFT

OPEN TO BELOW

DRAWING LIMITS

DRAWING LIMITS

DRAWING LIMITS

MEZZANINE LIGHTING PLAN

1. CLOUDED AREAS SHOWN ON DRAWING ARE ASSOCIATED WITH ELEVATOR ADDITION PROJECT

# Spanish Fort Community Center Elevator Addition

Spanish Fort, Alabama

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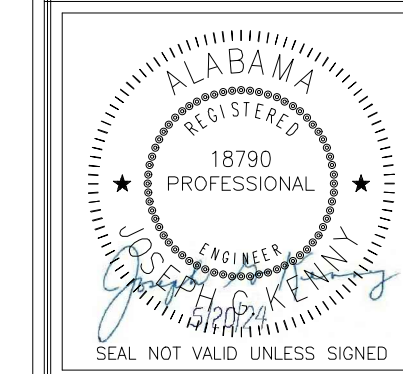
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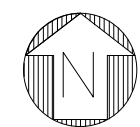
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REVISIONS
3/14/24 REVISED FOR ELEVATOR ADDITION
3/20/24 ADA REVISIONS



FILE: FD23015  
DATE: FEBRUARY 21, 2024

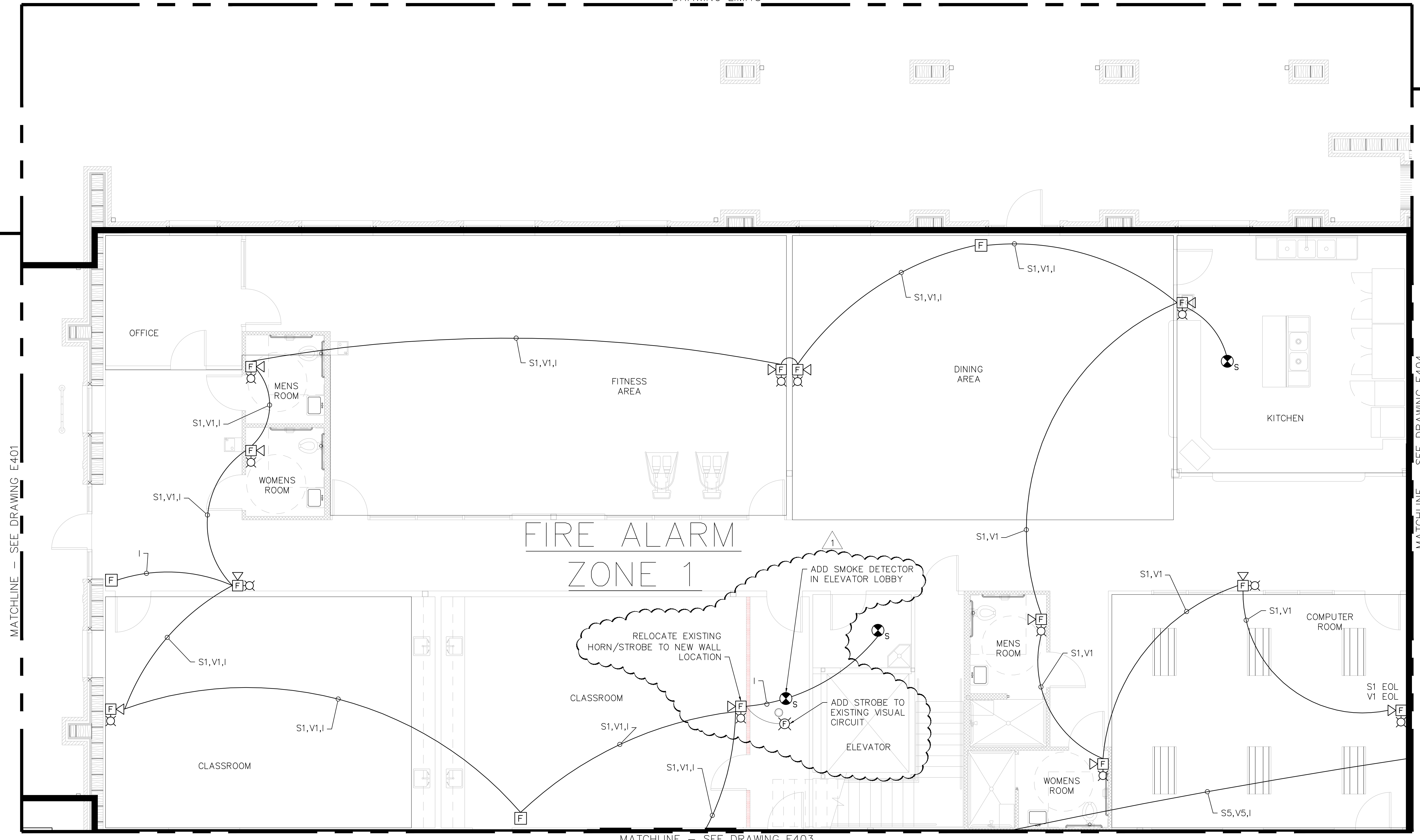




GENERAL NOTES

1. SEE SHEET E409 FOR FIRE ALARM NOTES AND LEGEND.
2. TO COMPLY WITH NFPA 72 VERIFY THAT ALL NEW ALARM DEVICES INSTALLED ARE WIRED INTO EXISTING CIRCUITS AND OR BACK TO THE EXISTING MAIN FIRE ALARM PANEL AND PROGRAMMED TO REFLECT THESE ADDITIONS.

DRAWING LIMITS



FIRE ALARM ZONE 1

FIRE ALARM PLAN

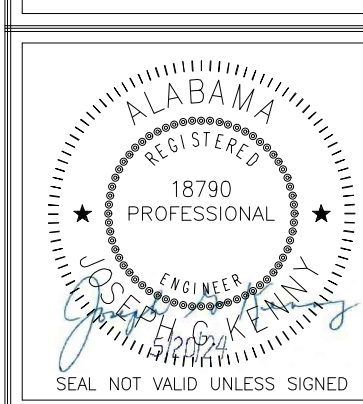
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CLOUDED AREAS SHOWN ON DRAWING ARE ASSOCIATED WITH ELEVATOR ADDITION PROJECT

Spanish Fort Community Center  
Elevator Addition  
Spanish Fort, Alabama

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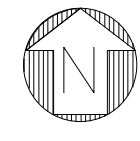
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REVISIONS
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FILE: FD23015  
DATE: FEBRUARY 21, 2024

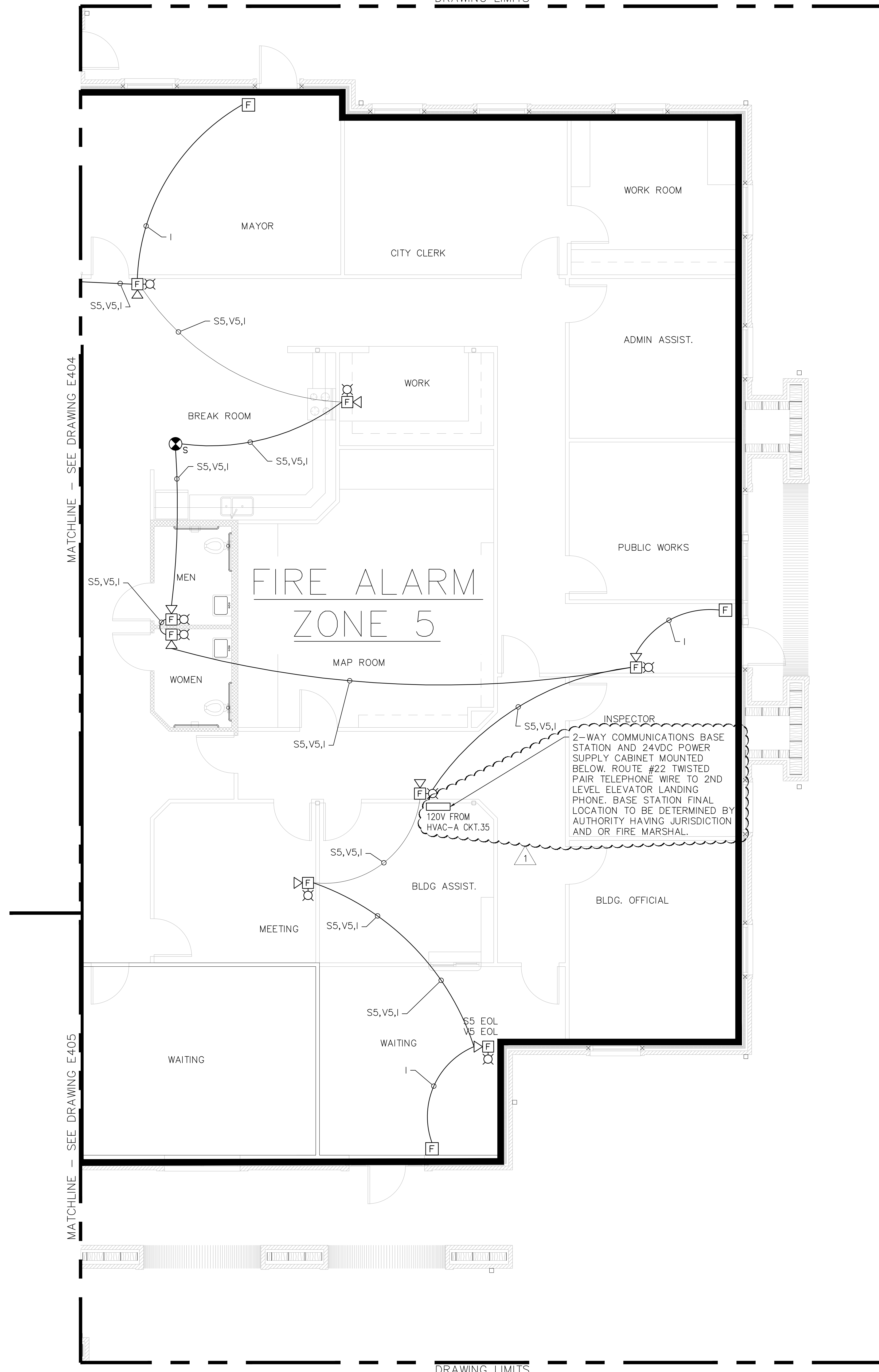
E402  
FIRE ALARM PLAN



DRAWING LIMITS

GENERAL NOTES

- 1. SEE SHEET E409 FOR FIRE ALARM NOTES AND LEGEND.

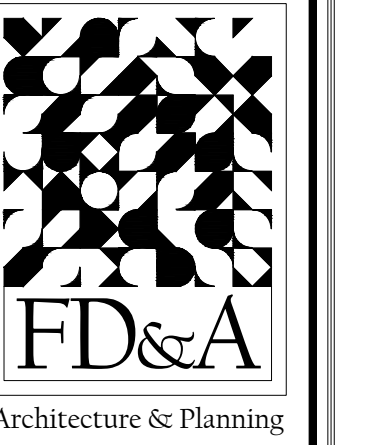


DRAWING LIMITS

FIRE ALARM PLAN

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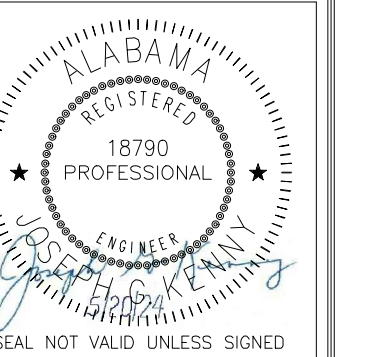


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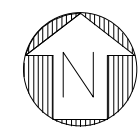
REVISIONS
△ 5/20/24 ELEVATOR ADDITION ADA REVISIONS



FILE: FD23015  
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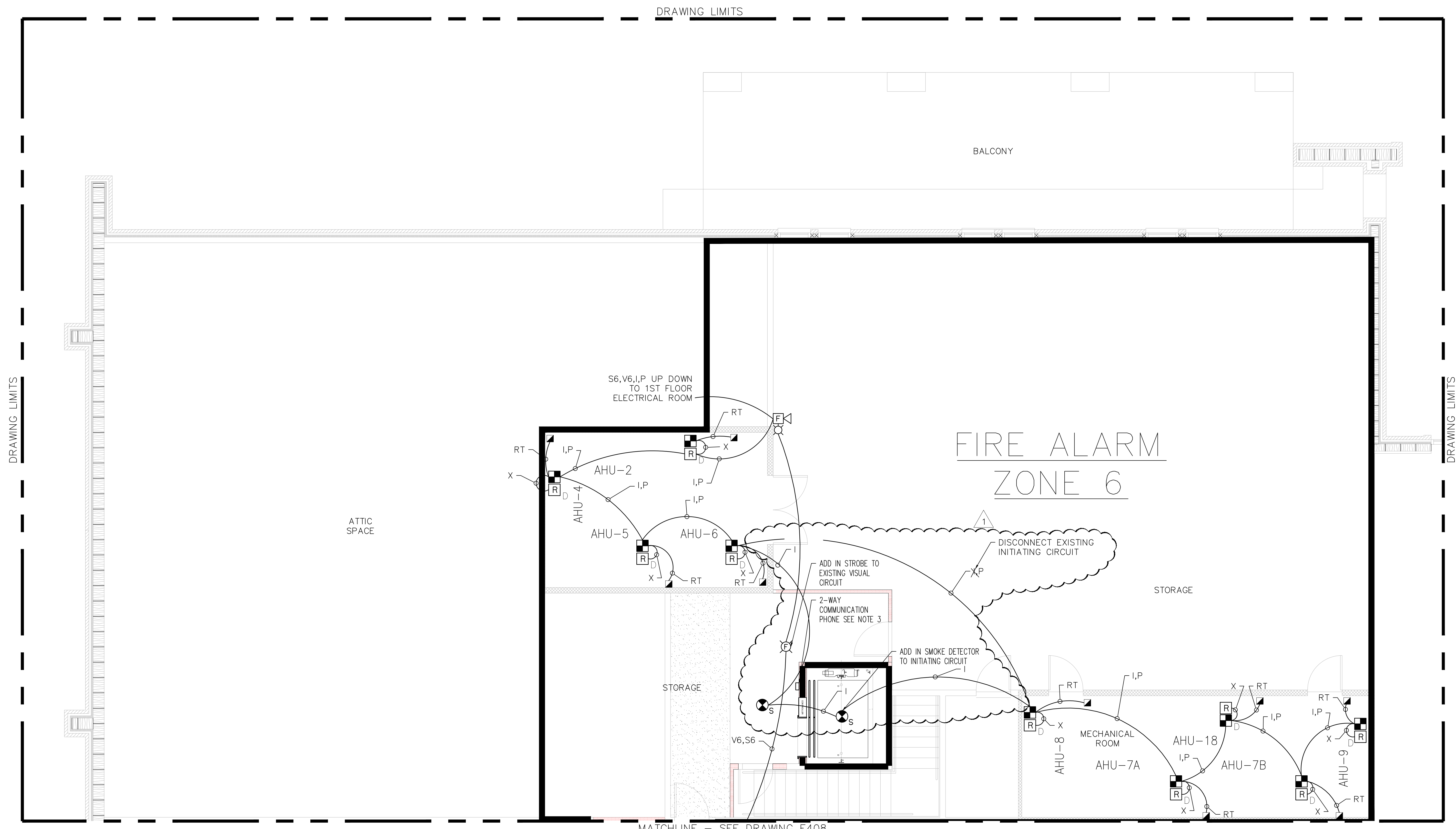
E406  
FIRE ALARM PLAN





GENERAL NOTES

1. SEE SHEET E409 FOR FIRE ALARM NOTES AND LEGEND.
2. TO COMPLY WITH NFPA 72 VERIFY THAT ALL NEW ALARM DEVICES INSTALLED ARE WIRED INTO EXISTING CIRCUITS AND OR BACK TO THE EXISTING MAIN FIRE ALARM PANEL AND PROGRAMMED TO REFLECT THESE ADDITIONS.
3. 2-WAY COMMUNICATION PHONE AND SIGNAGE WITH BUTTON MOUNTED @ 48" AFF. ELECTRICAL CONTRACTOR TO ROUTE #22 TWISTED PAIR TELEPHONE WIRE DOWN TO BUILDING ASSISTANT'S OFFICE BASE STATION.



MEZZANINE FIRE ALARM PLAN

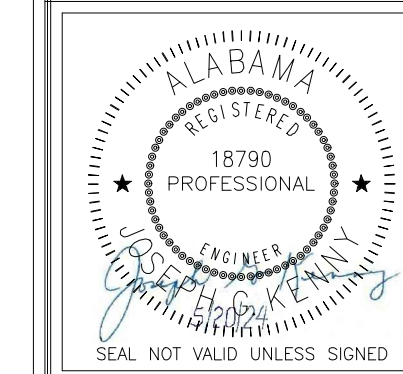
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**E407**  
MEZZ FIRE ALARM PLAN

### FIRE ALARM EQUIPMENT LEGEND

SYMBOL	DESCRIPTION
	FIRE ALARM CONTROL PANEL - 4010
	VOICE PANEL - 4003-9001
	LCD ANNUNCIATOR PANEL - 4606-9101
	PULL STATION - 4099-9001
	SMOKE DETECTOR - 4098-9792/9714
	HEAT DETECTOR - 4098-9792/9733
	DUCT DETECTOR - 4098-9756
	SPEAKER/VISUAL - 4906-9151
	TAMPER SWITCH - CONNECTION
	FLOW SWITCH - CONNECTION
	REMOTE TEST STATION - 2098-9806
	ENCAPSULATED RELAY, FOR USE WITH DUCT DETECTOR
	ZAM, MONITOR - 4090-9101
	IAM, MONITOR - 4090-9001
	JUNCTION BOX - FBO

### FIRE ALARM WIRING LEGEND

CODE	FUNCTION	QTY.	SIZE	COLOR CODING
Z	ZONE CIRCUIT	2	#14	RED, BLUE
ZL	ZONE LOOP CIRCUIT	4	#14	RED, RED W/STRIPE BLUE, BLUE W/STRIPE
V	VISUAL CIRCUIT	2	#14	ORANGE, PURPLE
VL	VISUAL LOOP CIRCUIT	4	#14	ORANGE, ORANGE W/STRIPE PURPLE, PURPLE W/STRIPE
P	POWER CIRCUIT	2	#14	RED, BLACK
X	AUXILIARY CIRCUIT	2	#14	GRAY, GRAY W/STRIPE
RT	REMOTE ALARM/TEST CIRCUIT	4	#14	RED, RED W/STRIPE YELLOW, YELLOW W/STRIPE
I	IDNET CIRCUIT	1	1975	WEST PENN
S	SPEAKER CIRCUIT	1	1995	WEST PENN
SL	SPEAKER LOOP CIRCUIT	2	1995	WEST PENN
N2	N2 ANNUNCIATOR CIRCUIT	1 PR	#14	TWISTED PAIRS

### FIRE ALARM GENERAL NOTES

- OBSERVE THE POLARITY OF DETECTORS, AUDIO UNITS, VISUAL UNITS, REMOTE ALARM UNITS, REMOTE ALARM TEST UNITS, ETC..
- DO NOT RUN AC VOLTAGE WITH FIRE ALARM WIRING UNLESS NOTED.
- ALL WIRES MUST TEST FREE OF GROUNDS, OPENS AND SHORTS PRIOR TO SYSTEM CHECKOUT.
- ALL CONDUCTORS SHALL BE U.L. LISTED AND APPROVED FOR USE IN FIRE ALARM SYSTEMS IN ACCORDANCE WITH N.F.P.A. 72 AND N.E.C. GUIDELINES.
- MARK ALL ZONE CIRCUITS WITH APPROPRIATE DESIGNATION. I.E., ZONE '1' WIRES WILL BE MARKED "Z1". (TYPICAL ALL ZONE CIRCUITS)
- MARK ALL SIGNAL CIRCUITS WITH APPROPRIATE DESIGNATION. I.E., AUDIO CIRCUIT "A1" WIRES WILL BE MARKED "A1". (TYPICAL ALL SIGNAL CIRCUITS)
- MARK ALL AUXILIARY CIRCUITS WITH APPROPRIATE DESIGNATION. I.E., AUXILIARY CIRCUIT "H1" WIRES WILL BE MARKED "H1". (TYPICAL ALL AUXILIARY CIRCUITS)
- ALL WIRE MARKERS AND STRIPES MUST BE VISIBLE IN ALL JUNCTION DEVICES AND CONTROL BOXES.
- DO NOT RUN CIRCUITS INTO THE BOTTOM OR SIDES OF THE CONTROL EQUIPMENT.
- ALL CONTROL EQUIPMENT MUST BE SUPPLIED WITH 120VAC AND BUILDING GROUND.
- ALL SMOKE DETECTORS ARE TO BE PROTECTED FROM JOB SITE ELEMENTS UNTIL FINAL CHECKOUT. COVER SMOKE DETECTORS WITH A PLASTIC BAG AND TAPE.
- VERIFY LOCATION OF EQUIPMENT AND/OR DEVICE PRIOR TO INSTALLATION.
- LOCATE CONTROLLING DEVICE A MAXIMUM OF THREE (3) FEET FROM EQUIPMENT BEING CONTROLLED PER N.F.P.A. GUIDELINES.
- ELECTRICAL CONTRACTOR TO SIZE ALL CONDUIT PER N.E.C. GUIDELINES.
- COORDINATE INSTALLATION OF DUCT SMOKE DETECTORS WITH MECHANICAL CONTRACTOR.
- MAINTAIN ELECTRICAL CONTINUITY OF ALL CIRCUITS, INCLUDING DRAIN WIRE AND INSULATE ALL DRAIN WIRES AND SHIELDS TO PREVENT GROUNDING.
- DO NOT CROSS CONNECT SHIELDS OR DRAIN WIRES FROM DIFFERENT CIRCUITS.

18. TO COMPLY WITH NFPA 72 VERIFY THAT ALL NEW ALARM DEVICES INSTALLED ARE WIRED INTO EXISTING CIRCUITS AND OR BACK TO THE EXISTING MAIN FIRE ALARM PANEL AND PROGRAMMED TO REFLECT THESE ADDITIONS.

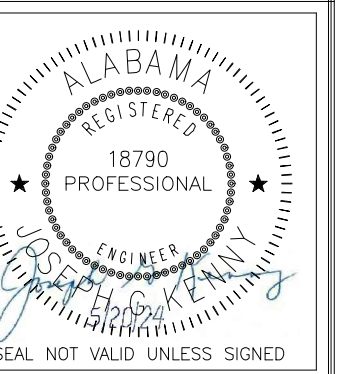
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**E409**  
 NOTES & LEGEND