MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2025-146
Item to be Scouted	Wiring Devices
Days to be scouted	15
Response Due By	05/16/2025
Description	Project needs to meet BABAA and the following are not in compliance: - Wall switches - Wall dimmers - Locking Receptacles - Wall Plates and covers

Section 2: Technical Information

Type of supplier being sought	Manufacturer
Reason	BABA Vermont
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Electrical components
Provide dimensions / size / tolerances / performance specifications for the item	SEE SPECIFICATIONS THAT HAVE BEEN PROVIDED (VIA ATTACHMENTS) FOR DETAILS ON ITEMS BELOW: o Wall switches o Wall dimmers o Tamper resistant Receptacles o GFCI receptacles o Locking Receptacles o Wall Plates and covers
List required materials needed to make the product, including materials of product components	Various as needed.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other stndards, requirements, etc.?	No
Additional Technical Comments	

Section 4: Business Information

Estimated potential business volume	As many of the following items that are available: Wall switches Wall dimmers Tamper resistant Receptacles GFCI receptacles Locking Receptacles Wall Plates and covers
Estimated target price / unit cost information (if unavailable explain)	$10,000 total (depends on availability of items above)
When is it needed by?	May 2025
Describe packaging requirements	Best available. Delivered undamaged. Specifics discussed in negotiation.

Where will this item be shipped?	South Burlington, VT

Additional Comments

Is there other information you would like to include?	Agency Providing funds: Commerce, U.S. Department of / National Institute of Standards and Technology (NIST) For questions related to BABA Compliance: Robert Slocum robert.slocum@nist.gov

SECTION 26 2726
WIRING DEVICES

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Wall switches.
B. Wall dimmers.
C. Receptacles.
D. Wall plates and covers.

1.02 RELATED REQUIREMENTS

A. Section 26 0526 - Grounding and Bonding for Electrical Systems.
B. Section 26 0533.16 - Boxes for Electrical Systems.
C. Section 26 0553 - Identification for Electrical Systems: Identification products and requirements.
D. Section 26 0923 - Lighting Control Devices: Devices for automatic control of lighting, including occupancy sensors.
E. Section 27 1000 - Structured Cabling: Voice and data jacks.

1.03 REFERENCE STANDARDS

A. FS W-C-596 - Connector, Electrical, Power, General Specification for.
B. FS W-S-896 - Switches, Toggle (Toggle and Lock), Flush Mounted (General Specification).
C. NECA 1 - Standard for Good Workmanship in Electrical Construction.
D. NECA 130 - Standard for Installing and Maintaining Wiring Devices.
E. NEMA WD 1 - General Color Requirements for Wiring Devices.
F. NEMA WD 6 - Wiring Devices - Dimensional Specifications.
G. NFPA 70 - National Electrical Code.
H. UL 20 - General-Use Snap Switches.
I. UL 498 - Attachment Plugs and Receptacles.
J. UL 514D - Cover Plates for Flush-Mounted Wiring Devices.
K. UL 943 - Ground-Fault Circuit-Interrupters.
L. UL 1472 - Solid-State Dimming Controls.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Coordination:
   1. Coordinate the placement of outlet boxes with millwork, furniture, equipment, etc. installed under other sections or by others.
   2. Coordinate wiring device ratings and configurations with the electrical requirements of actual equipment to be installed.
   3. Coordinate the placement of outlet boxes for wall switches with actual installed door swings.
   4. Coordinate the installation and preparation of uneven surfaces, such as split face block, to provide suitable surface for installation of wiring devices.
   5. Notify Engineer of any conflicts or deviations from Contract Documents to obtain direction prior to proceeding with work.

B. Sequencing:
   1. Do not install wiring devices until final surface finishes and painting are complete.

1.05 SUBMITTALS

A. Product Data: Provide manufacturer's catalog information showing dimensions, colors, and configurations.
   1. Wall Dimmers: Include derating information for ganged multiple devices.

B. Manufacturer's Installation Instructions: Indicate application conditions and limitations of use stipulated by product testing agency. Include instructions for storage, handling, protection, examination, preparation, and installation of product.

C. Operation and Maintenance Data:
   1. Wall Dimmers: Include information on operation and setting of presets.
   2. GFCI Receptacles: Include information on status indicators.

D. Project Record Documents: Record actual installed locations of wiring devices.

E. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. Screwdrivers for Tamper-Resistant Screws: Two for each type of screw.
   2. Extra Wall Plates: One of each style, size, and finish.

1.06 QUALITY ASSURANCE

A. Comply with requirements of NFPA 70.

B. Maintain at the project site a copy of each referenced document that prescribes execution requirements.

C. Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years documented experience.

D. Products: Listed, classified, and labeled as suitable for the purpose intended.

E. Product Listing Organization Qualifications: An organization recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL) and acceptable to authorities having jurisdiction.

1.07 DELIVERY, STORAGE, AND PROTECTION

A. Store in a clean, dry space in original manufacturer's packaging until ready for installation.

PART 2 PRODUCTS

2.01 WIRING DEVICES - GENERAL REQUIREMENTS

A. Provide wiring devices suitable for intended use with ratings adequate for load served.

B. Except where explicitly permitted, substitution of combination switch-and-receptacle devices for separate switches and receptacles is not permitted.

C. Wiring Device Applications:
   1. Receptacles Installed Outdoors or in Damp or Wet Locations: Use weather-resistant GFCI receptacles with weatherproof covers.
   2. Provide GFCI protection for:
      a. Receptacles installed within 6 feet of sinks.
      b. Receptacles installed in kitchens.
      c. Receptacles serving electric drinking fountains.
   3. Single Receptacles Installed on Individual Branch Circuits: Provide receptacle ampere rating equal to branch circuit rating.

D. Wiring Device Finishes:
   1. Provide wiring device finishes as described below, unless otherwise indicated.
   2. Wiring Devices Installed in Finished Spaces: White with white nylon wall plate.
   3. Wiring Devices Installed in Unfinished Spaces: Gray with galvanized steel wall plate.
   4. Wiring Devices Installed in Wet or Damp Locations: White with weatherproof cover.

2.02 WALL SWITCHES

A. Manufacturers:
   1. Hubbell Incorporated: www.hubbell.com/#sle.

2. Leviton Manufacturing Company, Inc: www.leviton.com/#sle.
3. Pass & Seymour, a brand of Legrand North America, Inc: www.legrand.us/#sle.

B. Wall Switches - General Requirements: AC only, quiet operating, general-use snap switches with silver alloy contacts, complying with NEMA WD 1 and NEMA WD 6, and listed as complying with UL 20 and where applicable, FS W-S-896; types as indicated on the drawings.
1. Wiring Provisions: Terminal screws for side wiring and screw actuated binding clamp for back wiring with separate ground terminal screw.

C. Standard Wall Switches: Industrial specification grade, 20 A, 120/277 V with standard toggle type switch actuator and maintained contacts; single pole single throw, three way, or four way as indicated on the drawings.

2.03 WALL DIMMERS

A. Manufacturers:
1. Leviton Manufacturing Company, Inc: www.leviton.com/#sle.
2. Lutron Electronics Company, Inc: www.lutron.com/#sle.
3. Pass & Seymour, a brand of Legrand North America, Inc: www.legrand.us/#sle.

B. Wall Dimmers - General Requirements: Solid-state with continuous full-range even control following square law dimming curve, integral radio frequency interference filtering, power failure preset memory, air gap switch accessible without removing wall plate, complying with NEMA WD 1 and NEMA WD 6, and listed as complying with UL 1472; types and ratings suitable for load controlled as indicated on the drawings.

C. Power Rating, Unless Otherwise Indicated or Required to Control the Load Indicated on the Drawings:

D. Provide accessory wall switches to match dimmer appearance.

2.04 RECEPTACLES

A. Manufacturers:
1. Hubbell Incorporated: www.hubbell.com/#sle.
2. Leviton Manufacturing Company, Inc: www.leviton.com/#sle.
3. Lutron Electronics Company, Inc: www.lutron.com/#sle.
4. Pass & Seymour, a brand of Legrand North America, Inc: www.legrand.us/#sle.
5. Source Limitations: Where wall controls are furnished as part of lighting control system, provide accessory matching receptacles and wallplates by the same manufacturer.

B. Receptacles - General Requirements: Self-grounding, complying with NEMA WD 1 and NEMA WD 6, and listed as complying with UL 498, and where applicable, FS W-C-596; types as indicated on the drawings.
1. Wiring Provisions: Terminal screws for side wiring or screw actuated binding clamp for back wiring with separate ground terminal screw.
2. NEMA configurations specified are according to NEMA WD 6.

C. Convenience Receptacles:
1. Tamper Resistant Convenience Receptacles: Industrial specification grade, 20A, 125V, NEMA 5-20R, listed and labeled as tamper resistant type; single or duplex as indicated on the drawings.
2. Tamper Resistant and Weather Resistant Convenience Receptacles: Industrial specification grade, 20A, 125V, NEMA 5-20R, listed and labeled as tamper resistant type and as weather resistant type complying with UL 498 Supplement SD suitable for installation in damp or wet locations; single or duplex as indicated on the drawings.

D. GFCI Receptacles:
1. GFCI Receptacles - General Requirements: Self-testing, with feed-through protection and light to indicate ground fault tripped condition and loss of protection; listed as complying with UL 943, class A.
a. Provide test and reset buttons of same color as device.

2. Tamper Resistant GFCI Receptacles: Industrial specification grade, duplex, 20A, 125V, NEMA 5-20R, listed and labeled as tamper resistant type.
3. Tamper Resistant and Weather Resistant GFCI Receptacles: Industrial specification grade, duplex, 20A, 125V, NEMA 5-20R, listed and labeled as tamper resistant type and as weather resistant type complying with UL 498 Supplement SD suitable for installation in damp or wet locations.

E. Locking Receptacles: Industrial specification grade, configuration as indicated on the drawings.

2.05 WALL PLATES AND COVERS

A. Manufacturers:
1. Hubbell Incorporated: www.hubbell-wiring.com/#sle.
2. Intermatic, Inc: www.intermatic.com/#sle.
3. Leviton Manufacturing Company, Inc: www.leviton.com/#sle.
4. Lutron Electronics Company, Inc: www.lutron.com/#sle.
5. Pass & Seymour, a brand of Legrand North America, Inc: www.legrand.us/#sle.
6. Source Limitations: Where wall controls are furnished as part of lighting control system, provide accessory matching receptacles and wallplates by the same manufacturer.

B. Wall Plates: Comply with UL 514D.
1. Configuration: One piece cover as required for quantity and types of corresponding wiring devices.
2. Size: Standard.
3. Screws: Metal with slotted heads finished to match wall plate finish.

C. Nylon Wall Plates: Smooth finish, high-impact thermoplastic.

D. Galvanized Steel Wall Plates: Rounded corners and edges, with corrosion resistant screws.

E. Premarked Wall Plates: Factory labeled as indicated; hot stamped for nylon wall plates and engraved for metal wall plates.

F. Weatherproof Receptacle Covers for Damp Locations: Gasketed, cast aluminum, with self-closing hinged cover and corrosion-resistant screws; listed as suitable for use in wet locations with cover closed.

G. Weatherproof Receptacle Covers for Wet Locations: Gasketed, cast aluminum, with hinged lockable cover and corrosion-resistant screws; listed as suitable for use in wet locations while in use with attachment plugs connected and identified as extra-duty type.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that field measurements are as indicated.

B. Verify that outlet boxes are installed in proper locations and at proper mounting heights and are properly sized to accommodate devices and conductors in accordance with NFPA 70.

C. Verify that wall openings are neatly cut and will be completely covered by wall plates.

D. Verify that final surface finishes are complete, including painting.

E. Verify that branch circuit wiring installation is completed, tested, and ready for connection to wiring devices.

F. Verify that conditions are satisfactory for installation prior to starting work.

3.02 PREPARATION

A. Provide extension rings to bring outlet boxes flush with finished surface.

B. Clean dirt, debris, plaster, and other foreign materials from outlet boxes.

3.03 INSTALLATION

A. Perform work in accordance with NECA 1 (general workmanship) and, where applicable, NECA 130, including mounting heights specified in those standards unless otherwise indicated.

B. Coordinate locations of outlet boxes provided under Section 26 0533.16 as required for installation of wiring devices provided under this section.
   1. Mounting Heights: Unless otherwise indicated, as follows:
      a. Wall Switches: 48 inches above finished floor.
      b. Wall Dimmers: 48 inches above finished floor.
      c. Receptacles: 18 inches above finished floor or 6 inches above counter.
   2. Orient outlet boxes for vertical installation of wiring devices unless otherwise indicated.
   3. Where multiple receptacles, wall switches, or wall dimmers are installed at the same location and at the same mounting height, gang devices together under a common wall plate.
   4. Locate wall switches on strike side of door with edge of wall plate 3 inches from edge of door frame. Where locations are indicated otherwise, notify Engineer to obtain direction prior to proceeding with work.
   5. Locate receptacles for electric drinking fountains concealed behind drinking fountain according to manufacturer's instructions.

C. Install wiring devices in accordance with manufacturer's instructions.

D. Install permanent barrier between ganged wiring devices when voltage between adjacent devices exceeds 300 V.

E. Where required, connect wiring devices using pigtails not less than 6 inches long. Do not connect more than one conductor to wiring device terminals.

F. Connect wiring devices by wrapping conductor clockwise 3/4 turn around screw terminal and tightening to proper torque specified by the manufacturer. Where present, do not use push-in pressure terminals that do not rely on screw-actuated binding.

G. Unless otherwise indicated, connect wiring device grounding terminal to branch circuit equipment grounding conductor and to outlet box with bonding jumper.

H. Provide GFCI receptacles with integral GFCI protection at each location indicated. Do not use feed-through wiring to protect downstream devices.

I. Where split-wired duplex receptacles are indicated, remove tabs connecting top and bottom receptacles.

J. Install wiring devices plumb and level with mounting yoke held rigidly in place.

K. Install wall switches with OFF position down.

L. Install wall dimmers to achieve full rating specified and indicated after derating for ganging as instructed by manufacturer.

M. Do not share neutral conductor on branch circuits utilizing wall dimmers.

N. Install vertically mounted receptacles with grounding pole on top and horizontally mounted receptacles with grounding pole on left.

O. Install wall plates to fit completely flush to wall with no gaps and rough opening completely covered without strain on wall plate. Repair or reinstall improperly installed outlet boxes or improperly sized rough openings. Do not use oversized wall plates in lieu of meeting this requirement.

P. Install blank wall plates on junction boxes and on outlet boxes with no wiring devices installed or designated for future use.

Q. Identify wiring devices in accordance with Section 26 0553.

3.04 FIELD QUALITY CONTROL

A. Inspect each wiring device for damage and defects.

B. Operate each wall switch and wall dimmer with circuit energized to verify proper operation.

C. Test each receptacle to verify operation and proper polarity.

D. Test each GFCI receptacle for proper tripping operation according to manufacturer's instructions.

E. Correct wiring deficiencies and replace damaged or defective wiring devices.

3.05 ADJUSTING

A. Adjust devices and wall plates to be flush and level.

B. Adjust presets for wall dimmers according to manufacturer's instructions as directed by Engineer.

3.06 CLEANING

A. Clean exposed surfaces to remove dirt, paint, or other foreign material and restore to match original factory finish.

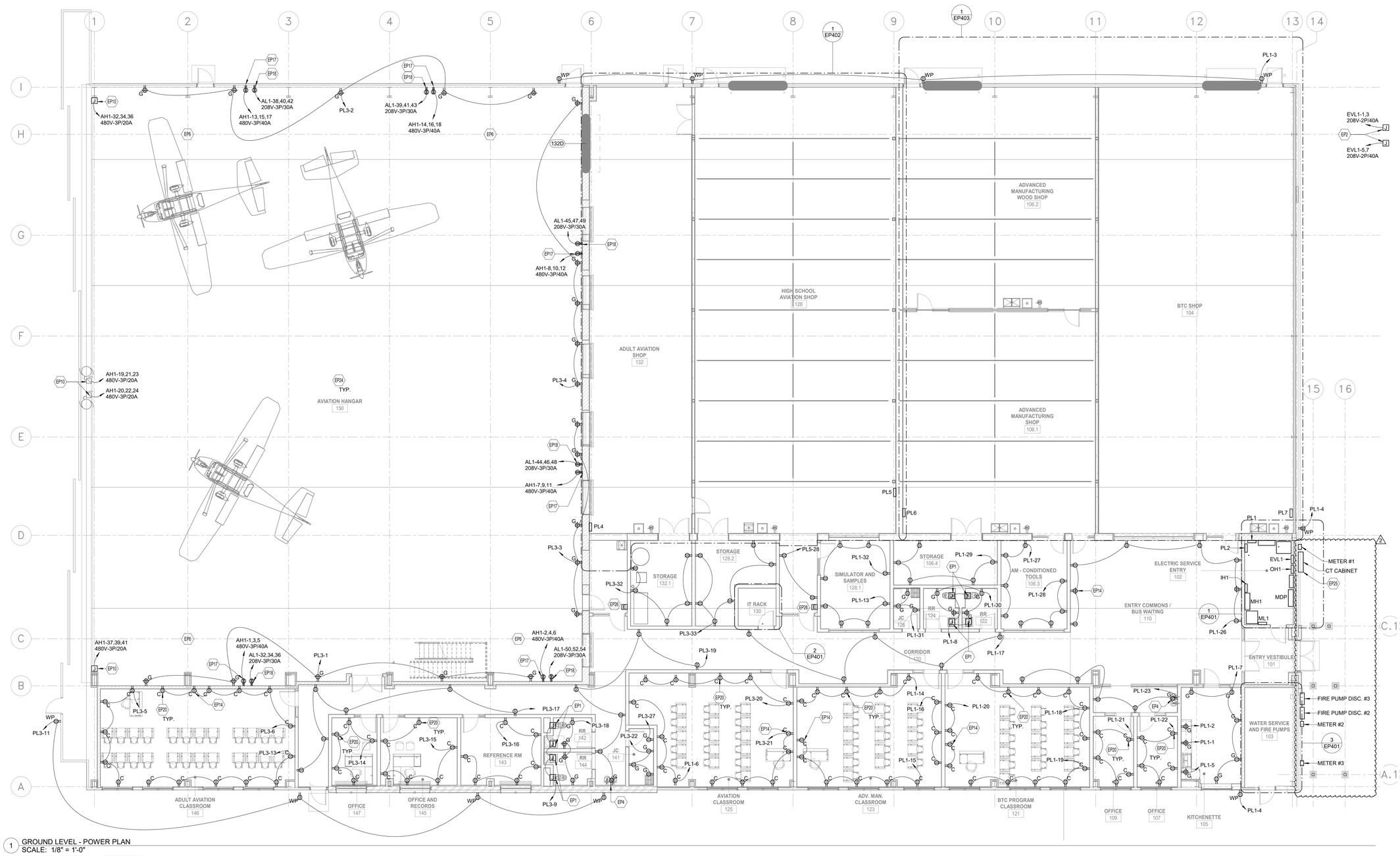
END OF SECTION 26 2726

ELECTRICAL KEY NOTES

#	
EP1	PROVIDE 120V TO LOW VOLTAGE TRANSFORMERS (LVT) ABOVE CEILING FOR AUTOMATIC FLUSH VALVES AND FAUCETS. PROVIDE ALL REQUIRED LOW VOLTAGE CONNECTIONS FROM LVT TO EACH AUTOMATIC FLUSH VALVE OR FAUCET. REFER TO PLUMBING DRAWINGS FOR DETAILS REGARDING LOCATIONS AND QUANTITIES OF LVTS. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR LOW VOLTAGE WIRE SIZES.
EP2	PROVIDE (2) CIRCUITS FOR (2) EV CHARGING PARKING SPOTS USING (2)#8 & (1)#10G IN 1" CONDUIT PER CIRCUIT. REFER TO CIVIL SERIES DRAWINGS FOR EXACT LOCATION OF EV CHARGING PEDESTAL, EV CHARGING PEDESTAL BASIS OF DESIGN, TRENCHING DETAILS, AND UNDERGROUND ELECTRIC ROUTING.
EP4	PROVIDE A 120V, 20A CIRCUIT WITH A GFI CIRCUIT BREAKER TO SERVE ELECTRIC WATER COOLER. COORDINATE LOCATION OF WATER COOLER RECEPTACLE AND MOUNTING HEIGHT IN FIELD AS REQUIRED PER FINAL WATER COOLER SELECTION.
EP6	PROVIDE FLUSH MOUNTED FLOOR GROUNDING RECEPTACLES WITH GROUND RODS FOR STATIC DISCHARGE FROM AIRCRAFT. CORE THROUGH EXISTING FLOOR SLAB TO INSTALL THE GROUND RODS AND GROUNDING RECEPTACLE AS REQUIRED. PERFORM GROUND PENETRATING RADAR SCAN TO DETERMINE LOCATIONS OF EXISTING FLOOR SLAB REINFORCEMENT PRIOR TO CORING THROUGH THE FLOOR.
EP10	RE-ESTABLISH CIRCUITS TO EXISTING HANGAR DOOR MOTORS AND OPERATOR AND EXISTING HANGAR DOOR HEATER. EXISTING HANGAR DOOR AND DOOR HEATERS WERE PREVIOUSLY FED BY 480V,3P,20A CIRCUIT BREAKERS. MATCH EXISTING CIRCUIT SIZE AND PROVIDE NEW BRANCH CIRCUITS USING (3)#12 & (1)#12G IN 3/4" CONDUIT FROM NOTED PANELBOARD.
EP14	COORDINATE FINAL HEIGHT OF RECEPTACLE AND DATA OUTLET WITH THE FINAL MOUNTING HEIGHT OF THE MONITOR.

ELECTRICAL KEY NOTES

#	
EP17	PROVIDE A 50A, 3-PHASE, 480V, 3P, 4W GROUNDING TWIST LOCK RECEPTACLE FOR FUTURE SCHOOL DISTRICT 480V, 3-PHASE GROUND POWER UNIT (GPU).
EP18	PROVIDE A 30A, 3-PHASE Y, 120/208V, 4P, 5W GROUNDING NEMA L21-30R TWIST LOCK RECEPTACLE FOR EXISTING SCHOOL DISTRICT GROUND POWER UNIT (GPU). PROVIDE EACH DEDICATED GPU CIRCUIT WITH A UL943, 5MA, GFCI CIRCUIT BREAKER.
EP20	PROVIDE HALF-CONTROL RECEPTACLE WITH APPROPRIATE MARKINGS FOR PLUG-LOAD CONTROL. RECEPTACLES TO BE CONTROLLED THROUGH LOW VOLTAGE VACANCY SENSORS AND DEDICATED RECEPTACLE POWER PACKS. REFER TO PLUG CONTROL WIRING DETAIL FOR ADDITIONAL INFORMATION ON PROPOSED DESIGN INTENT.
EP24	AIRCRAFT SHALL NOT BE PARKED WITHIN 5 FEET OF ANY OF THE HANGAR WALLS. ALL ELECTRICAL BRANCH CIRCUITS WITHIN THE HANGAR SHALL BE MOUNTED ALONG WALLS. NO ELECTRICAL WIRING WITHIN THE HANGAR SHALL BE EMBEDDED, UNDER SLAB, OR UNDERGROUND. ALL ELECTRICAL WIRING SHALL BE LOCATED IN UNCLASSIFIED LOCATIONS AND SHALL BE PERMITTED TO UTILIZE ANY SUITABLE WIRING METHOD RECOGNIZED IN CHAPTER 3 OF THE NEC AND THE SPECIFICATIONS.
EP25	REFER TO CIVIL DRAWINGS FOR LOCATION OF GMP TRANSFORMER SERVING ALL GMP SERVICES AND ASSOCIATED METERS/CT CABINETS. METERS TO BE FURNISHED BY GMP, AND CT CABINET BY CONTRACTOR FOR CONTRACTOR INSTALLATION. REFER TO ONE-LINE DIAGRAM ON EP601 FOR REQUIRED CONDUIT AND CONDUCTOR SIZES BETWEEN METER/CT CABINETS AND THE GMP TRANSFORMER. (2)
EP26	PROVIDE AN EMERGENCY STOP (E-STOP) BUTTON FOR EMERGENCY-POWER-OFF OF ALL PLUG-LOADS IN THE SPACE. E-STOP TO BE NORMALLY OPEN, YELLOW, "EMERGENCY STOP" LABEL, TWIST-TO-RESET, AND SUITABLE FOR SWITCHING 120VAC WITH A FLUSH COVER. E-STOP TO BE STI STOPPER STATIONS OR EQUAL. REFER TO E-STOP DETAIL ON EP501 FOR ADDITIONAL INFORMATION.



1 GROUND LEVEL - POWER PLAN
SCALE: 1/8" = 1'-0"

0 FT 8 FT 16 FT 24 FT

PROJECT NORTH
TRUE NORTH

McFARLAND JOHNSON
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Architecture • Planning • Interiors

PROJECT MILESTONE
CONSTRUCTION PLANS

NO.	DATE	DESCRIPTION
2	4/2/2025	ASI #2

CLIENT: BURLINGTON SCHOOL DISTRICT
BURLINGTON, VERMONT

PROJECT: BURLINGTON AVIATION TECHNICAL CENTER
200 DAVINCI DRIVE, SOUTH BURLINGTON, VT 05403

DRAWN	AT
DESIGNED	AT
CHECKED	RA
SCALE	1/8" = 1'-0"
DATE	11/04/2024
PROJECT	T-18715.02

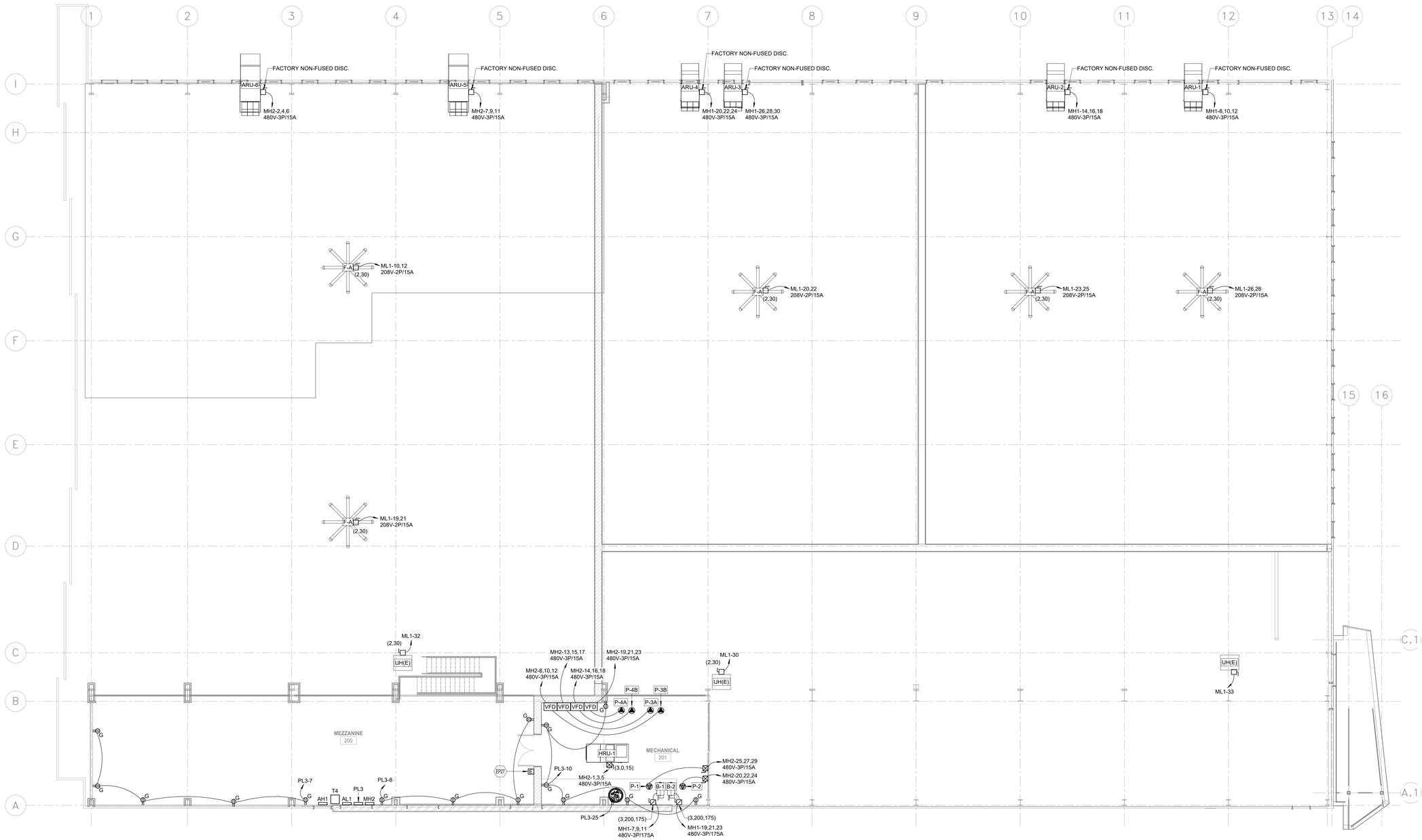
Job # 10424
Cost # 90-0017
ASI-02 / RFI #88
Received 4/2/2025
DEW CONSTRUCTION

DRAWING TITLE
GROUND FLOOR POWER PLAN

DRAWING NUMBER
EP101

ELECTRICAL KEY NOTES (#)

EP27 PROVIDE AN EMERGENCY STOP (E-STOP) BUTTON FOR EMERGENCY-POWER-OFF OF BOTH BOILERS. E-STOP TO BE NORMALLY OPEN, YELLOW, "EMERGENCY STOP" LABEL, TWIST-TO-RESET, AND SUITABLE FOR SWITCHING 120VAC WITH A FLUSH COVER. E-STOP TO BE STI STOPPER STATIONS OR EQUAL. REFER TO E-STOP DETAIL ON EP501 FOR ADDITIONAL INFORMATION.



1 MEZZANINE - POWER PLAN
SCALE: 1/8" = 1'-0"

0 FT 8 FT 16 FT 24 FT

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PROJECT MILESTONE
CONSTRUCTION PLANS

NO.	DATE	DESCRIPTION

CLIENT: BURLINGTON SCHOOL DISTRICT
BURLINGTON, VERMONT

PROJECT: BURLINGTON AVIATION TECHNICAL CENTER
200 DAVINCI DRIVE, SOUTH BURLINGTON, VT 05403

DRAWN	AT
DESIGNED	AT
CHECKED	RA
SCALE	1/8" = 1'-0"
DATE	11/04/2024
PROJECT	T-18715.02

STATE OF VERMONT
DONALD M. KNOWE
NO. 018.0134933
ELECTRICAL
LICENSED
PROFESSIONAL ENGINEER

DRAWING TITLE
MEZZANINE LEVEL POWER PLAN

DRAWING NUMBER
EP102

Job # 10424
Cost #
Construction Set
Received 11/4/2024
DEW CONSTRUCTION

PROJECT NORTH
TRUE NORTH