

PROJECT NAME: 20250313 – IN076 ICTC – REPLACE UPS 3 AND 4
OWNER: INDIANA UNIVERSITY
CES PROJECT NO. 2026-002.ICT
ADDENDUM #: 3
DATE: 8/4/26

This Addendum consists of one (1) Addendum pages and eleven (11) attachment pages totaling twelve (12) pages. This Addendum shall supplement, amend, and become part of the Bid Documents. All Bids shall be based on these modifications. Bidders shall acknowledge the receipt of this addendum on their Bid Form.

CHANGES TO SPECIFICATIONS

ITEM NO. 1: Specification 26 00 00 – Remote Power Panel – Add Document in its entirety.

CHANGES TO DRAWINGS

ELECTRICAL

1. Drawing
 - a. DELETE AND REPLACE drawing EP101.

END OF ADDENDUM NO. 3

PART 1 – GENERAL

1.1 Summary

These specifications describe requirements for a small footprint remote power panel, supplying power to sensitive loads. The panel provides distribution, control, and monitoring of AC power. It includes all equipment to properly interface the AC power source with the intended load.

1.2 Definitions

- RPP: Remote Power Panel
- RFI: Radio Frequency Interference
- EMI: Electromagnetic Interference
- SPD: Surge Protection Device

1.3 Standards

The RPP is designed, manufactured, tested, and installed in compliance with:

- American National Standards Institute (ANSI)
- Canadian Standards Association (CSA)
- Institute of Electrical and Electronics Engineers (IEEE)
- ISO 9001
- National Electrical Code (NEC - NFPA 70)
- National Electrical Manufacturers Association (NEMA)
- National Fire Protection Association (NFPA 75)
- Underwriters Laboratories (UL)

The system is UL listed under UL 62638 Standard for Information of Technology.

The system complies with latest FCC Part 15 EMI emission limits for Class A

computing devices. The RPP safely withstand without malfunction or damage:

- Transient voltage surges on the AC power input as defined by standard EN 61000-4-5 for Category B3 locations (industrial and commercial facilities with high surge exposure).
- Electrostatic discharges (ESD) up to 8 kV at any point on the exterior of the unit as defined by standard EN 61000-4-2.
- Electromagnetic fields from portable transmitters within 9 ft. (3 m) of the unit as defined by standard EN 61000-4-3.

1.4 Submittal Documentation Requirements

The complete documentation associated with this bid proposal and contract including submittals, shop drawings, O and M manuals, and test reports as follows:

- Submit documents in portable document format (PDF).

Provide a compliance review of the specifications, drawings, and addenda. The compliance review is a paragraph-by-paragraph review of the specifications with the below information:

C, D, or E marked in the margin of the original specifications and any subsequent addenda. C, D, E to be completed for all specifications, including reference specifications.

- C: Comply with no exceptions.
- D: Comply with deviations. For every deviation, provide a numbered footnote with reasons for the proposed deviation and how the intent of the specification can be satisfied.
- E: Exception, do not comply. For every exception, provide a numbered footnote with reasons and possible alternatives.

1.4.1 Submittals

- Product data: For each type of RPP, overcurrent protective device, SPD, accessory, and component indicated, include dimensions and manufacturer technical data on features, performance, electrical characteristics, ratings, and finishes.
- Shop drawings: Include the below information for each power distribution unit and any related equipment:
 - Drawings with dimensions and elevations, sections, and details.
 - Wiring diagrams: Diagram power, signal, and control wiring and differentiate between manufacturer installed and field installed wiring.
- User manual: The manufacturer provides an installation/user manual with installation, start-up, operation, and maintenance instructions for the specified system.

1.5 Quality Assurance

Manufactures qualifications:

- The manufacturers have a minimum of 40 years of experience in the design, manufacturing, and the testing of RPPs.
- The quality system for the engineering and manufacturing facility is certified to conform Quality System Standard ISO 9001 for the design and manufacturing of power protection systems for computers and other sensitive electronics.
- The system is factory tested before shipment. Testing includes but is not limited to: Quality Control checks, Hi-Pot test (per UL requirements) and Metering Verification tests.
- The manufacturer must be ISO 9001 certified.

1.6 Delivery, Storage, and Handling

- Storage temperatures: -67°F to +185°F (-55°C to +85°C).
- To avoid condensation, store indoors in a dry, clean environment with a relative humidity of 30% to 55%. Protect from exposure to dirt, fumes, water, corrosive substances, and physical damage.
- Storage/transport altitude: up to 40,000 ft. (12,200 m) above mean sea level.
- Handle RPPs per NEMA PB 2.1, NECA 400 and manufacturer written instructions. Handle carefully to avoid damage to RPP internal components, enclosure, and finish.

1.7 Environmental Requirements

Equipment must be rated for continuous operation under the below conditions, unless otherwise indicated:

- Operating ambient temperature:
 - Under normal operation: Not to exceed 104°F (40°C).
- Operating altitude above mean sea level:
 - <3,300 ft. (1,000 m) at full capacity rating and at 40°C operating temperature.
- Operating relative humidity: 0% to 95% (non-condensing)
- Operating audible noise level: Under normal operation the noise level must not exceed 45 dBA.

1.8 Spare Parts

A list of recommended spare parts must be supplied at the customer request.

1.9 Warranty

The manufacturer provides a warranty against defects in material and workmanship for 12 months after initial startup or 18 months after shipping date, whichever occurs first (refer to the warranty statement for details).

PART 2 PRODUCTS

2.1 Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that incorporated into the work includes:

- i) Liebert (Vertiv)
- ii) Schneider APC

2.2 Ratings/Electrical Requirements

- Input/output frequency: 60 Hz (+/-5 Hz)
- Input amperage: 400 A
 - Input voltage: 208/120 V, 60 Hz volts AC, three-phase, four-wire plus ground, solidly wye configuration.
- Maximum inrush current: Shall not exceed 10X NFLA (low inrush required, 5X NFLA maximum).
- RPP system withstand rating: Units carry a 25 kA, 35 kA standard short circuit

withstand rating without the use of fuses. Withstand ratings are tested and certified, a label is applied to the unit clearly identifying this rating as required by the National Electric Code.

2.3 Components

Frame construction and enclosure

1. The frame is constructed of galvanized steel to provide a strong substructure. The cabinet is a NEMA Type 1 enclosure and meet IP20 requirements. The unit have a lockable, removable, hinged door and top and bottom input/output cable trays with a minimum of 84 cable/conduit openings. All services are capable of being performed with access to the front. Retrofitting additional power distribution cables require the access to the front of the unit only. Hinged door provides access to the main panelboard circuit breaker and to all output circuit breakers. The color of the exterior door and panels must be the manufacturer standard color, black-gray matte.
2. The unit must have removable input and output conduit plates on the top and bottom of the RPP. Pre-punched cable/conduit openings must be provided for each output panelboard.
3. All service must be capable of being performed with access to the front and top only.
 - a. A tool is required to remove the panels which access the hazardous voltage area of the unit.
4. The unit have lockable, removable, hinged front doors made of sheet metal construction.
 - a. A one-point latch with key lock is provided for security. Doors must provide access to the main input circuit breaker and to all output circuit breakers.
 - b. To ensure grounding integrity and for static protection and EMI/RFI shielding, the removable exterior panel with HMI/display must be grounded to the frame by way of stranded copper wire.
 - c. Doors and side panels must be manufacture with standard color, black-gray matte (ZP-7021). Optional custom painting to match or accent the data processing equipment must be available.
5. The unit is naturally convection cooled. The convection cooling method allows continuous full load operation without activation of overtemperature circuits. For heat rejection, the RPP is utilize an inverted conduit plate with solid top and vented sides. The solid top shall prohibit entry of foreign materials.
6. The cabinet dimensions must be a maximum of 24 in. wide by 12 in. deep by 78.7 in. high (610 x 328 x 2000 mm). The maximum weight is 420 lbs (191 kg).

Main input circuit breaker

- Input power connections
 - Copper busbars for two-hole lugs must be provided on the line side terminals of the main input circuit breaker for connection of the input power conductors. A copper ground bus bar must be provided for connection of a parity sized insulated ground conductor.
 - Each transformer feed to the RPP shall be protected with a 225A LSI circuit breaker installed inside the RPP.

Single main input breaker

- The specified unit must be equipped with a main input circuit breaker to provide overcurrent protection and a means for disconnecting all power to the unit. The main input circuit breaker is a three-pole molded case circuit breaker sized for 125% of the specified full load input current and rated for 600 VAC. The minimum UL listed interrupting rating for the main input circuit breaker must be 35,000 RMS, 65,000 RMS symmetrical amperes at 208Y/120V AC.
- The main input circuit breaker to each panelboard includes a 24 VDC shunt trip mechanism to interface with unit controls, EPO button and other remote controls as

required by the NEC and local codes.

Distribution panelboards

1. The system utilizes one vertically mounted Square D, ABB, or Siemens manufactured distribution panelboard for distribution to the intended loads.
2. IP-2X touch safe distribution
The RPP manufacturer provides an enhanced finger safe IP-2X IEC 60529 certified NQ panelboard solution manufactured by Square D. The finger safe panelboards manufactured by Square D greatly reduces risk when workers attempt to work on an energized panel as per OSHA CFR 1910.333(a)(1) guidelines. The panelboard must utilize off the shelf branch circuit breakers available locally or via distribution to assure uptime and flexibility onsite.
3. The panelboard must be protected with a hinged access panel which requires a tool for accessing.
4. The panelboard must have a rating of 250 or 400 amperes, with an interrupting rating of 22 kA RMS at 240/120 VAC minimum.
5. The panelboard provides a total of 42, 54, or 84 branch circuit breaker positions and 10 kAIC, 22 kAIC (35 kAIC with ABB or Square D panelboard main breaker) rated branch circuit breakers must be used.
6. Each panelboard includes separate isolated neutral and safety ground busbars for the neutral and safety ground connections to match the number of output circuits. The neutral busbar and wiring must be sized for at least 1.73 times the panelboard full load rating to accommodate high harmonic neutral currents associated with single phase non-linear loads.
7. Each panelboard must have removable output cable landing plates.

2.4 Accessories

Emergency power off (EPO) (Delete either point 1 or 2)

1. The local EPO includes a covered EPO push button.
As part of the EPO circuit, an interface is also be provided for connecting one or more normally open (NO) or normally closed (NC) remote EPO switches to the EPO circuit.
 - a. For flexibility to meet the shutdown control conditions, the local EPO (unit shutdown) circuit must be isolated from the remote EPO (room shutdown) circuit.
 - b. The remote EPO circuit must be designed to allow direct connection of multiple units with single and multiple shutdown control contacts.
2. A local EPO must not be included.
 - An interface is provided for connecting one or more NO or NC remote EPO switches which can be used to remotely shunt trip the main input breaker.

2.5 Power Monitoring (Mains and Distribution)

The monitoring system monitors the current and voltage of the panelboard main circuit breaker using 9.0 in. color touchscreen display with bezel. The bezel includes a power and alarm LED strip and audible alarm speaker. It displays all the power parameters and alarms listed in this section. The display is mounted on the exterior of the front door.

- These measurements are used for reporting the average RMS current, power, and other parameters. The monitor will display alarms and status conditions for each circuit breaker.
- The monitoring system detects load loss at the branch breaker without the use of branch circuit aux contacts.
- The monitoring system provides waveform captures on overcurrent, overvoltage, and

undervoltage alarms at the main breaker. (Optional – Delete if not required).

- The monitoring must include a customizable setting to disable the display, power and alarm LED strip and audible alarm speaker.
- The monitoring system must be fully configurable from the display, and password protected to prevent unauthorized access.

The monitoring system monitors and displays all the below parameters for the panelboard main breaker:

- Frequency (Hz)
- Voltage (V), line-to-line for all three phases
- Voltage (V), line-to-neutral for all three phases
- Phase current (Amp.)
- Neutral current (Amp.)
- Ground current (Amp.)
- Current load for all three phases (Amp.)
- Real power (kW)
- Apparent power (kVA)
- Power factor for all three phases and total
- Energy (J)
- Peak current for all three phases (Amp.)
- Peak demand (Amp.) Current crest factor (peak/RMS) for all three phases
- Current total harmonic distortion (THD) for all three phases
- Current THD for all three phases (Amp.)
- Current 3rd, 5th, 7th, and 9th order harmonic distortion components for all three phases
- Voltage THD for all three phases (V)
- Voltage 3rd, 5th, 7th, and 9th order harmonic distortion components for all three phases
- Percent load
- Circuit identification and status of each breaker is displayed.

The display monitors and displays the below parameters for the panelboard branch breaker:

- Phase pole mapping
- Phase current (Amp.)
- Current load for all three phases (Amp.)
- Real power (kW)
- Power factor for all three phases and total
- Energy (J)
- Peak current for all three phases (Amp.)
- Peak demand (Amp.)

- Circuit identification and status of each breaker is displayed.

The monitoring system detects and displays an alarm message of the below conditions for each panelboard main and panelboard branch breaker:

- Overvoltage (V)
- Undervoltage (V)
- Phase overcurrent (Amp.)
- Neutral overcurrent (Amp.)
- Ground overcurrent (Amp.)
- Frequency deviation
- Main breaker open (when aux contacts are supplied)
- Main breaker closed (when aux contacts are supplied)
- Main breaker tripped (when bell contacts are supplied)
- Main breaker accessory error (when aux or bell contacts are supplied)
- Branch phase overcurrent (Amp.)
- Branch phase undercurrent (Amp.)
- Branch neutral undercurrent (Amp.)
- Branch load loss detected
- Summary alarm

All alarm thresholds for monitored parameters must be adjustable by graphical user interface (GUI) and USB port to match site requirements. The factory set points for the alarms are as below:

- Overvoltage - at least one of the line-to-line voltages exceeds +6% of nominal
- Undervoltage - at least one of the line-to-line or line-to-neutral voltages falls below -13% of nominal
- Phase overcurrent Warning - current exceeds 90% of breaker amps
- Phase overcurrent - current exceeds 100% of breaker amps
- Neutral current - current exceeds 95% of breaker amps
- Ground current - current exceeds

5 A Summary alarm:

- Shall detect and display the occurrence of any alarm.
- To facilitate troubleshooting, all alarms must be stored in non-volatile memory to protect against erasure by a power outage.
- Alarms must be manually reset after the alarm condition has been corrected. Alarms can be reset through the card or the display.

Custom alarm annunciation:

- The monitoring system must be capable of providing alarm annunciation for up to two contact closures (two N.O. and two N.C.).

- A custom alarm message up to 20 characters must be provided for each contact.
- Alarm messages must be programmable by the GUI or USB port to match site

requirements. Summary alarm contact:

- A Form C (1 N.O. and 1 N.C.) Summary alarm contact must be provided for remote alarm status. The contacts are changing state upon occurrence of any alarm and rest upon alarm silence.

Control panel/display:

- The RPP must be provided with a microprocessor based control panel for operator interface (may also be referred to as user interface, or UI) to configure and monitor the RPP. The control panel is located on the front of the unit where it can be operated without opening the hinged front door.
- A 9.0 in., backlit, menu driven, full graphics, color touchscreen liquid crystal display is used to display system information, metering information, a one-line diagram of the RPP, active events and event history.
- No mechanical push buttons are used to control the interface. Mechanical EPO push buttons are acceptable.

Control panel logic:

- RPP system logic and control programming resides in a microprocessor based control system with non-volatile flash memory.
- System control logic utilizes high speed digital signal processors (DSPs). CANbus is used to communicate between the logic and the UI as well as the options.
- Switches, contacts, and relays are used only to signal the logic system as to the status of mechanical devices or to signal user control inputs. Customer external signals must be isolated from the UPS logic by relays or optical isolation.

Remote monitoring communication:

- Two ports are provided to allow communication to remote monitoring systems.
 - Equipped RDU101 Cards, for remote communication, can use up to two of the below protocols: HTTP/HTTPS, Email, SMS, SNMP v1/v2c/v3, BACnet IP and Modbus TCP output. BACnet/MSTP and Modbus/RTU support will require a USB to RS-485 adapter. The adapter is available as an accessory.

NOTE: Two of the third-party protocols (SNMP, Modbus or BACnet) may be configured and used simultaneously.

PART 3 EXECUTION

3.0 Packaging and Shipping

The manufacturer tests the packaging to ISTA 3B testing, which will provide adequate packaging to ensure there is no damage to the units while in transport.

The manufacturer provides adequate notice to the contractor of shipping and arrival times.

The contractor shall arrange for receiving and provide storage for any units prior to installation. Unit storage must be provided in accordance with the environmental conditions outlined in this specification.

3.1 Factory Services

The manufacturer provides a certified copy of the factory test report in electronic format. The owner and/or the owner representative is permitted to witness the factory test of each unit. The factory performs an enhanced certified test report to demonstrate the unit meets the required specifications. A copy of the report will be provided with each unit and in electronic format. Optional pricing must be provided as part of the bid process.

3.2 Installation (by others)

- Install the RPPs and accessories per NEMA/ANSI standards.
- Install the RPPs level on floor as required by manufacturer.
- Adjustments:
 - Set field adjustable switches and circuit breaker trip ranges.
 - Install overcurrent protective devices, transient voltage suppression devices, and instrumentation as required.

The contractor provides labor for the installation of the new equipment in accordance with the manufacturer. The contractor is responsible of all rigging required for unloading and installation.

The contractor needs to install the equipment as shown in the drawings and ensure all required working clearances are maintained.

3.3 Field Identification (by others)

Identify field installed conductors, interconnecting wiring, and components, provide warning signs as specified in specifications.

RPP Nameplates: Label each RPP compartment with engraved metal or laminated plastic nameplate mounted with corrosion resistant screws.

Provide arc flash potential labelling per NEC, NFPA 70E, and in accordance with Section 26 05 33, Identification for electrical systems.

3.4 Factory Onsite Services and Offerings

A Factory authorized service representative need to perform startup service.

The manufacturer is directly employing a nationwide service organization of factory trained field service personnel dedicated to the startup, maintenance, and repair of the manufacturer power equipment.

The manufacturer maintains a national dispatch center 24 hours per day, 365 days per year, to minimize service response time and to maximize availability of qualified service personnel.

3.5 Field Quality Control

The RPP manufacturer provides qualified field service technicians for assistance in the installation, startup, and site acceptance testing. This work includes, but is not limited to, the following:

- Instruct and train the contractor on the installation and wiring of the equipment.
- Perform a detailed installation inspection of the equipment prior to energizing.

- Verify all power wiring connections are proper and tight.
- Verify all control, instrumentation, and communications wiring connections are correct and tight. Manufacturer technician must be present and participate in energizing the equipment.
- Assist in startup of monitoring system.
- Perform a comprehensive test on the energized unit including:
 - Checkout of all metering, monitoring, and alarm functions and set points including communications to remote monitoring system.

3.6 Cleaning (by others)

Upon completion of installation, inspect interior and exterior of RPPs. Compressed air is not needed to clean when using a vacuum to remove dirt or debris.

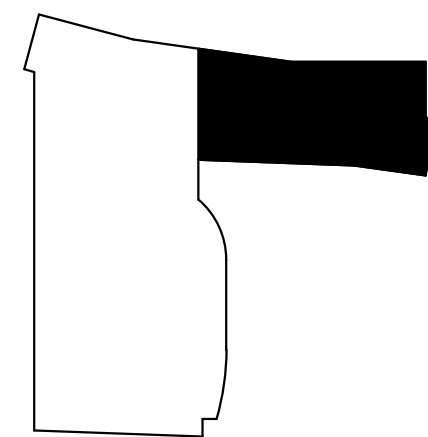
END OF SECTION



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KEY PLAN

#	REVISION	DATE
1	Addendum 2	07/28/2026
2	Addendum 3	08/04/2026

JOB NO. 2026-002
PRODUCED BY BJW
DATE 6/26/2026

ELECTRICAL GROUND
FLOOR PLANS

EP101

GENERAL POWER NOTES

- REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.
- PROVIDE A GEAR SUBMITTAL FOR GENERAL APPROVAL PRIOR TO CONDUCTING STUDIES. IMPLEMENT RECOMMENDATIONS TO ELECTRICAL GEAR FOR FINAL APPROVAL AFTER STUDIES ARE COMPLETED AND APPROVED.
- BASIS OF DESIGN IS ASCO BY CM BUCK. COORDINATE WITH DAVE BUNCH AT DBUNCH@CMBUCK.COM. DIVISION 25 IS RESPONSIBLE FOR ALL COORDINATION AND ADJUSTMENTS AS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
- COORDINATE THE INTEGRATION OF THIS PROJECT WITH SCHNEIDER ELECTRIC AND WITH EPMS AT BLOOMINGTON. PROVIDE ALL NECESSARY HARDWARE, INSTALLATION, SOFTWARE MODIFICATIONS, AND UPDATE ALL EXISTING SYSTEM DRAWINGS IN BID.
- PROVIDE EQUIPMENT SUPPORTS FOR ALL EQUIPMENT ON RAISED FLOOR.
- PROVIDE ALL MODIFICATIONS OF RAISED FLOOR TO PROVIDE CONNECTIONS TO EQUIPMENT.

POWER PLAN NOTES

- PROVIDE FLOOR MOUNTED EXTERNAL MAINTENANCE BYPASS BY APC GALAXY VL SERIES 300KW RATED OR EQUAL. PROVIDE MAXIMUM MONITORING POINTS.
- PROVIDE FLOOR MOUNTED UPS BY APC GALAXY VL SERIES 300KW RATED OR EQUAL. PROVIDE MAXIMUM MONITORING POINTS.
- PROVIDE FLOOR MOUNTED LITHIUM ION BATTERY BY APC GALAXY VL SERIES 300KW RATED OR EQUAL. COMMUNICATIONS SHALL BE MODBUS AND ETHERNET. COORDINATE COMMUNICATION PROTOCOLS WITH OWNER. PROVIDE MAXIMUM MONITORING POINTS.
- PROVIDE UNIVERSITY STANDARD DATA JACK, COMMUNICATION CABLE AND A 1-1/2" CONDUIT FROM UPS TO MDF RM 019. COORDINATE LOCATION AND MONITORING POINTS WITH OWNER FOR UP TO 150 FEET. PROVIDE MAXIMUM MONITORING POINTS.
- PROVIDE 30A FUSED DISCONNECT, FUSE PER MANUFACTURES RECOMMENDATIONS. CONNECT TO PANELBOARD INDICATED. PROVIDE A 20A/3P CIRCUIT BREAKER. MATCH KALC RATING OF PANELBOARD. INSTALL DISCONNECT NEAR UNIT.
- EXISTING CONDUITS FROM JUNCTION BOX BELOW FLOOR TO PDU-3 WILL BE REUSED. NEW CONDUIT WILL BE INSTALLED FROM THE JUNCTION BOX TO THE OUTPUT OF THE NEW MBPC UPS-3. EXISTING CABLES FROM JUNCTION BOX TO EACH PDU WILL BE REMOVED. NEW CONDUCTORS WILL BE INSTALLED FROM MBPC TO PDU-3.
- EXISTING CONDUITS FROM JUNCTION BOX BELOW FLOOR TO PDU-4 WILL BE REUSED. NEW CONDUIT WILL BE INSTALLED FROM THE JUNCTION BOX TO THE OUTPUT OF THE NEW MBPC UPS-4. EXISTING CABLES FROM JUNCTION BOX TO EACH PDU WILL BE REMOVED. NEW CONDUCTORS WILL BE INSTALLED FROM MBPC TO PDU-4.
- MAINTAIN FEEDER TO ATS-6.
- MAINTAIN EXISTING FEEDER FROM PANEL CTEDP-L1 TO DISCONNECT SERVING UPS-4.
- COORDINATE WITH OWNER FOR FINAL LOCATION OF DATA TERMINATIONS TO NETWORK.
- PRIMARY FEEDER FROM 125A-3P BREAKER IN MBP UPS-4. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- PRIMARY FEEDER FROM 125A-3P BREAKER IN MBP UPS-3. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION.
- NEW LOAD SIDE FEEDER FROM EXISTING DISCONNECT TO NEW MBPC UPS-4.
- NEW SECONDARY FEEDER FROM NEW TRANSFORMER TO EXISTING RPP. COORDINATE LOCATION WITH OWNER.
- PROVIDE PROPER SIGNAGE ON UPS ROOM DOOR. COORDINATE EXACT REQUIREMENTS WITH OWNER.
- TWO 42 POLE WALL MOUNTED PANELBOARDS WITH WIREWAY TO FLOOR. BREAKERS TO HAVE MONITORING CAPABILITIES.
- COORDINATE REMOTE POWER PANEL WORKING CLEARANCES WITH DATA RACK. COORDINATE REMOTE POWER PANEL LOCATION WITH EXISTING CABLE TRAY AND CRAC UNIT.
- PROVIDE UNIVERSITY STANDARD DATA JACK, COMMUNICATION CABLE AND A 1-1/2" CONDUIT FROM UPS TO MDF RM 019. COORDINATE LOCATION AND MONITORING POINTS WITH OWNER FOR UP TO 150 FEET. PROVIDE MAXIMUM MONITORING POINTS.
- PROPOSED ROUTING FOR LOAD BANK CABLES AND LOAD BANK. COORDINATE FINAL ROUTING OF CABLES AND LOAD BANK LOCATION WITH OWNER.

SEQUENCE OF OPERATIONS:

- PLACE UPS-3 IN MAINTENANCE BYPASS.
- REMOVE UPS-3, FLYWHEEL, AND FLOOR STANDS. FLOOR STANDS MAY BE REUSED IF COMPATIBLE WITH NEW EQUIPMENT.
- INSTALL NEW FLOOR STANDS, UPS-3, MAINTENANCE BYPASS CABINET, AND BATTERY CABINETS.
- EXISTING FEEDER FROM PANEL CTEDP-L1 SHALL BE REUSED TO FEED THE MAINTENANCE BYPASS INUIT.
- PERFORM UPS-3 STARTUP.
- ONCE STARTUP IS COMPLETE, UPS-3 MAINTENANCE BYPASS SHALL BE SHUT DOWN AND REMOVED.
- LOAD FROM NEW UPS-3 BYPASS SHALL BE CONNECTED TO EXISTING JUNCTION BOX BELOW FLOOR.
- EXISTING FEEDER TO PDU-3 SHALL BE REPLACED.
- REPEAT PROCESS FOR UPS-4.

GENERAL DEMOLITION NOTES

- REFER TO ELECTRICAL SYMBOLS AND ABBREVIATIONS SHEET E-001 FOR ADDITIONAL INFORMATION.
- THIS DRAWING REPRESENTS INFORMATION OBTAINED FROM ORIGINAL CONTRACT DRAWINGS AND FIELD SURVEY. VERIFY BY ON-SITE OBSERVATION THE EXTENT OF WORK PRIOR TO SUBMISSION OF BID.
- CONTRACT DOCUMENTS CONSIST OF BOTH PROJECT MANUAL AND DRAWINGS AND ARE MEANT TO BE COMPLEMENTARY. ANYTHING APPEARING ON EITHER MUST BE EXECUTED THE SAME AS IF SHOWN ON BOTH.
- THOROUGHLY EXAMINE THE WORK OF OTHER CONTRACTORS AND PROPERLY INSTALL ALL WORK REQUIRED FOR THE PROJECT.
- THE OWNER HOLDS RIGHT OF FIRST REFUSAL FOR ALL DEMOLISHED ELECTRICAL EQUIPMENT.
- ALL ELECTRICAL ITEMS SHOWN WITH LIGHT LINEWORK ARE EXISTING TO REMAIN.
- REMOVE ALL ELECTRICAL ITEMS SHOWN WITH BOLD/DASHED LINEWORK COMPLETE.
- PROVIDE ALL CUTTING AND PATCHING AS REQUIRED FOR THE REMOVAL OF EXISTING ELECTRICAL EQUIPMENT. REFER TO SPECIFICATIONS.
- PROVIDE A BLANK COVERPLATE FOR ALL EXISTING WALL OPENINGS WHERE ELECTRICAL EQUIPMENT HAS BEEN REMOVED AND NOT REPLACED. IN AREAS RECEIVING NEW WALL TREATMENTS, PATCH THE EXISTING OPENING.
- REMOVE CABINET SUPPORTS UNDER RAISED FLOOR.

DEMOLITION PLAN NOTES

- REMOVE CONDUIT AND CONDUCTORS AS INDICATED INCLUDING CONDUIT SUPPORTS.
- REMOVE FLY WHEEL CABINET.
- REMOVE UPS CABINET.
- REMOVE MAINTENANCE BYPASS PANEL.
- REMOVE FEEDER TO PDU-4 COMPLETE.
- REMOVE WIREWAY.
- MAINTAIN FEEDER TO ATS-6.
- MAINTAIN FEEDER TO DISCONNECT.
- MAINTAIN EXISTING CONDUIT FOR REUSE IN NEW CONSTRUCTION PHASE.
- MAINTAIN EXISTING JUNCTION BOX FOR REUSE IN NEW CONSTRUCTION PHASE.
- SHIFT EXISTING SMOKE DETECTOR TO MISS NEW FAN COIL UNIT.

2 ELECTRICAL CONSTRUCTION GROUND FLOOR PLAN

1/8" = 1'-0"

1 ELECTRICAL DEMOLITION GROUND FLOOR PLAN

1/8" = 1'-0"

