

ADDENDUM

ADDENDUM NO: 03

PROJECT: Center Grove HS Renovations – Package 2

PROJECT NO: 2025075

DATE: September 4, 2026

BY: Jack Leibham

This Addendum is issued in accordance with the provisions of "The General Conditions of the Contract for Construction," Article 1, "Contract Documents" and becomes a part of the Contract Documents as provided therein. This Addendum includes:

Addendum Pages:

ADD3-1 through ADD3-4

Attached Specifications: AIA Document A305, 26 24 00

Attached Drawing Sheets: A201A, M301A, M301A.2, M500, E001, E101, E201.2, E201A, E201E, E400B

PART 0 - GENERAL INFORMATION

0.1 NOT USED

PART 1 - BIDDING REQUIREMENTS

1.1 AIA Document A305

- A. Add document to project manual.

PART 2 - SPECIFICATIONS

2.1 26 24 00 – ELECTRICAL DISTRIBUTION EQUIPMENT

- A. Remove indications of Power studies section 260573 as it is not required.

PART 3 - DRAWINGS

STRUCTURAL

3.1 NOT USED

ARCHITECTURAL

3.2 A201A – LOWER LEVEL FLOOR PLAN – UNIT A

- A. Relocate WL1 Welding Booths as shown on attached sheet.

MECHANICAL

3.3 M500 – MECHANICAL SCHEDULES

- A. Adjusted mechanical equipment to reflect new welding filtration equipment.

3.4 M301A.2 – LOWER LEVEL MECHANICAL PLAN UNIT A – ALTERNATE 2

- A. Alternates revised to indicate new locations of welding stations and adjust oa diffuser so as to not discharge directly on welding stations at high velocity.

3.5 M301A – LOWER LEVEL MECHANICAL PLANS – UNIT A

- A. Plans modified to provide carbon filtration with welding particulate filtration.
- B. Replacing two RP1 units with one MC3000 unit by microair.

ELECTRICAL

3.6 E001 - ELECTRICAL LEGEND AND DETAILS

- A. Updated legend to provide space for Typical Wall Device Mounting Detail
- B. Moved Typical Wall Device Mounting Detail from sheet E400B
- C. Updated Sheet name

3.7 E101 – ELECTRICAL OVERALL PLAN – LOWER LEVEL

- A. Updated tagged note ENC57.

3.8 E201A – LOWER LEVEL ELECTRICAL NEW WORK PLANS – UNIT A

- A. Removed two motorized switches previously serving (2) WF-1.
- B. Added one (1) non fused disconnect for new WF-1.
- C. Added one (1) 480/277V MH panel.
- D. Added tagged note ENC71.
- E. Replaced 75KVA transformer with 45KVA transformer, Updated tagged note ENC58.
- F. Updated wire size between T-ML (transformer) and ML (panel). Tagged note ENC59 updated (wire size from 3-4/0 to 3-1/0 and ground size from #2 to #6).
- G. Added CONSTRUCTION LAB 127 – EXISTING RELAY PANEL AND KEYED SWITCH view.

3.9 E201E – LOWER LEVEL ELECTRICAL NEW WORK PLANS – UNIT E

- A. Updated AV Equipment Schedule verbiage.

3.10 E400B – ELECTRICAL SCHEDULES

- A. Added MH panel schedule.
- B. Moved Typical Wall Device Mounting Detail to sheet E001.
- C. Updated ML amperage (from 225A to 150A).
- D. Updated T-ML wire size and OCP in panel MH. (3-#1 to 3#3 and 100A to 80A).

3.11 E201.2 - LOWER LEVEL ELECTRICAL NEW WORK PLANS - UNIT A - ALTERNATE 2

- A. Refer to "E201A – LOWER LEVEL ELECTRICAL NEW WORK PLANS – UNIT A" in narrative for changes.

PART 4 - OTHER ITEMS

4.1 NOT USED

PART 5 - QUESTIONS AND ANSWERS

5.1 Question #1

- A. What size rebar in the masonry wall? What is the spacing for the rebar? Will there be a bond beam at the top of the wall with how many bars and what size?
 - 1. See spec 04 20 00 Unit Masonry section 2.06 Reinforcement.
 - 2. The walls should be reinforced with #5 verticals @ 4'-8" o.c.
 - 3. There should be an open-core bond beam with (2) #5 continuous bars at the tops of all walls.
 - 4. No special bracing is required provided that the distance between intersecting walls, pilasters, or corners does not exceed 30 x the nominal wall thickness (e.g. 20'-0" for an 8" cmu wall).

5.2 Question #2

- A. In spec section 262400 Distribution under sequencing it mentions Power studies section 260573. This spec section is not included. Is a power studies required?
 - 1. Any indication of Power studies section 260573 has been removed as it is not required. Updated Spec section will be provided as part of Addendum 03.

5.3 Question #3

- A. Sheet E201A Tagged note ENC5 mentions to provide relay panel and refer to adjacent lab and match equipment/ components. Can you provide Details/ specifications, and photos of the existing lab control panel.

1. Contactor (including keyed switch and EPO) to match configuration as found in Storage 127A serving Construction Lab 127. See attached link for pictures and location in field.
2. <https://downloads.cmtaegrs.com/WebClientNew/index.html/?ShareToken=AE51408F6311EA72601E9D1493D98A5990F03419>

5.4 Question #4

- A. Sheet E202J upper-level shows TV studio and new PUB panel to be fed from panel B shown on sheet E101 Lower level electrical rm 170 is that correct?
 1. That is correct. Addendum 02 corrected the discrepancy of the TV studio being on a sheet called "upper-level" even though it is located in the lower level.

END ADDENDUM #3

AIA® Document A305™ – 1986

Contractor's Qualification Statement

The Undersigned certifies under oath that the information provided herein is true and sufficiently complete so as not to be misleading.

SUBMITTED TO:

ADDRESS:

SUBMITTED BY:

NAME:

ADDRESS:

PRINCIPAL OFFICE:

- ☐ Corporation
- ☐ Partnership
- ☐ Individual
- ☐ Joint Venture
- ☐ Other

NAME OF PROJECT (if applicable):

TYPE OF WORK (file separate form for each Classification of Work):

- ☐ General Construction
- ☐ HVAC
- ☐ Electrical
- ☐ Plumbing
- ☐ Other (please specify)

§ 1. ORGANIZATION

§ 1.1 How many years has your organization been in business as a Contractor?

§ 1.2 How many years has your organization been in business under its present business name?

§ 1.2.1 Under what other or former names has your organization operated?

§ 1.3 If your organization is a corporation, answer the following:

§ 1.3.1 Date of incorporation:

§ 1.3.2 State of incorporation:

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This form is approved and recommended by the American Institute of Architects (AIA) and The Associated General Contractors of America (AGC) for use in evaluating the qualifications of contractors. No endorsement of the submitting party or verification of the information is made by AIA or AGC.

§ 1.3.3 President's name:

§ 1.3.4 Vice-president's name(s)

§ 1.3.5 Secretary's name:

§ 1.3.6 Treasurer's name:

§ 1.4 If your organization is a partnership, answer the following:

§ 1.4.1 Date of organization:

§ 1.4.2 Type of partnership (if applicable):

§ 1.4.3 Name(s) of general partner(s)

§ 1.5 If your organization is individually owned, answer the following:

§ 1.5.1 Date of organization:

§ 1.5.2 Name of owner:

§ 1.6 If the form of your organization is other than those listed above, describe it and name the principals:

§ 2. LICENSING

§ 2.1 List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate registration or license numbers, if applicable.

§ 2.2 List jurisdictions in which your organization's partnership or trade name is filed.

§ 3. EXPERIENCE

§ 3.1 List the categories of work that your organization normally performs with its own forces.

§ 3.2 Claims and Suits. (If the answer to any of the questions below is yes, please attach details.)

§ 3.2.1 Has your organization ever failed to complete any work awarded to it?

§ 3.2.2 Are there any judgments, claims, arbitration proceedings or suits pending or outstanding against your organization or its officers?

§ 3.2.3 Has your organization filed any law suits or requested arbitration with regard to construction contracts within the last five years?

§ 3.3 Within the last five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract? (If the answer is yes, please attach details.)

§ 3.4 On a separate sheet, list major construction projects your organization has in progress, giving the name of project, owner, architect, contract amount, percent complete and scheduled completion date.

§ 3.4.1 State total worth of work in progress and under contract:

§ 3.5 On a separate sheet, list the major projects your organization has completed in the past five years, giving the name of project, owner, architect, contract amount, date of completion and percentage of the cost of the work performed with your own forces.

§ 3.5.1 State average annual amount of construction work performed during the past five years:

§ 3.6 On a separate sheet, list the construction experience and present commitments of the key individuals of your organization.

§ 4. REFERENCES

§ 4.1 Trade References:

§ 4.2 Bank References:

§ 4.3 Surety:

§ 4.3.1 Name of bonding company:

§ 4.3.2 Name and address of agent:

§ 5. FINANCING

§ 5.1 Financial Statement.

§ 5.1.1 Attach a financial statement, preferably audited, including your organization's latest balance sheet and income statement showing the following items:

Current Assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory and prepaid expenses);

Net Fixed Assets;

Other Assets;

Current Liabilities (e.g., accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries and accrued payroll taxes);

Other Liabilities (e.g., capital, capital stock, authorized and outstanding shares par values, earned surplus and retained earnings).

§ 5.1.2 Name and address of firm preparing attached financial statement, and date thereof:

§ 5.1.3 Is the attached financial statement for the identical organization named on page one?

§ 5.1.4 If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-subsidary).

§ 5.2 Will the organization whose financial statement is attached act as guarantor of the contract for construction?

§ 6. SIGNATURE

§ 6.1 Dated at this day of

Name of Organization:

By:

Title:

§ 6.2

M being duly sworn deposes and says that the information provided herein is true and sufficiently complete so as not to be misleading.

| Subscribed and sworn before me this day of 20

Notary Public:

My Commission Expires:

Additions and Deletions Report for AIA[®] Document A305[™] – 1986

This Additions and Deletions Report, as defined on page 1 of the associated document, reproduces below all text the author has added to the standard form AIA document in order to complete it, as well as any text the author may have added to or deleted from the original AIA text. Added text is shown underlined. Deleted text is indicated with a horizontal line through the original AIA text.

Note: This Additions and Deletions Report is provided for information purposes only and is not incorporated into or constitute any part of the associated AIA document. This Additions and Deletions Report and its associated document were generated simultaneously by AIA software at 13:10:33 on 05/02/2008.

PAGE 1

NAME OF PROJECT *(if applicable)*: JW Marriott Hotel Complex-Indianapolis

PAGE 4

Subscribed and sworn before me this day of 20-20

Certification of Document's Authenticity

AIA® Document D401™ – 2003

I, , hereby certify, to the best of my knowledge, information and belief, that I created the attached final document simultaneously with its associated Additions and Deletions Report and this certification at 13:10:33 on 05/02/2008 under Order No. 1000341287_7 from AIA Contract Documents software and that in preparing the attached final document I made no changes to the original text of AIA® Document A305™ – 1986 - Contractor's Qualification Statement, as published by the AIA in its software, other than those additions and deletions shown in the associated Additions and Deletions Report.

(Signed)

(Title)

(Dated)

SECTION 262400

ELECTRICAL DISTRIBUTION EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General, Special and Supplementary Conditions, Division 01 Specification Sections, and Section 260501 "General Provisions" apply to this Section.

1.2 SUMMARY

- A. Description: Section includes requirements for the provision of Panelboards including manufacturing, fabrication, configuration and installation as required for the complete performance of the Work, as shown on the Drawings, as specified herein.
- B. Section Includes:
 - 1. Distribution panelboards
 - 2. Lighting and appliance branch-circuit panelboards
 - 3. Disconnecting and overcurrent protective devices.
 - 4. Distribution Transformers
- C. Related Requirements:
 - 1. Refer to Section 260500, "Common Work Results for Electrical Systems" for requirements related to equipment supports.

1.3 REFERENCES

- A. Abbreviations
 - 1. AFCI: Arc-fault circuit interrupter.
 - 2. GFCI: Ground-fault circuit interrupter.
 - 3. GFPE: Ground-fault protection of equipment.
 - 4. MCCB: Molded Case Circuit Breaker
 - 5. SWD: Switching Duty
 - 6. VPR: Voltage protection rating.
- B. Definitions
 - 1. Panelboard: A single panel or group of panel units designed for assembly in the form of a single panel, including buses and automatic overcurrent devices, and equipped with or without switches for the control of light, heat, or power circuits; designed to be placed in a cabinet or cutout box placed in or against a wall, partition, or other support; and accessible only from the front.

- C. Reference Standards: The following publications are referred to in the text by the basic designation only. The edition/revision of the referenced publications shall be the latest version as of the date of the Contract Documents, unless otherwise specified.
1. National Electrical Contractors Association (NECA):
 - a. NECA 407, "Standard for Installing and Maintaining Panelboards"
 2. National Electrical Manufacturers Association (NEMA):
 - a. NEMA AB 1, "Molded Case Circuit Breakers and Molded Case Switches."
 - b. NEMA PB 1, "Panelboards."
 - c. NEMA PB 1.1, "General Instructions for Proper Installation, Operation and Maintenance of Panelboards Rated 600 Volts or Less."
 3. Underwriter Laboratories (UL):
 - a. UL 50, "Enclosures for Electrical Equipment, Non-Environmental Considerations."
 - b. UL 67, "Standard for Panelboards."
 - c. UL 489, "Molded-Case Circuit Breakers, Molded-Case Switches, and Circuit-Breaker Enclosures."

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of qualified workers as defined in NEMA PB 1.1 and trained in electrical safety as required by NFPA 70E.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Comply with manufacturer instructions for storage of electrical equipment to prevent damage from condensation or other environmental concerns.

1.6 COORDINATION

- A. Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.
- B. Distribution equipment sizes and equipment layouts shall be considered basis of design. Equipment sizes vary by manufacturer. If proposed equipment is larger than the sizes illustrated, the burden shall be on the Contractor to provide equipment which fits in the space allotted while maintaining all code-required and manufacturer-recommended clearances.
- C. Drawings indicate space available for electrical equipment, including clearances between equipment and adjacent surfaces and other items. Equipment installed must comply with all clearance, access and replacement working space requirements of the NEC and Owner.

1.7 WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to repair or replace panelboards, circuit breakers, finishes, controls, components, and accessories that fail in materials or workmanship within 12 months from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - 1. Match Existing. GE or Square D for breakers and Disconnects to match existing

Source Limitations: Obtain panelboards, overcurrent protection devices, and all other electrical distribution equipment through one source from a single manufacturer.

2.2 GENERAL REQUIREMENTS FOR PANELBOARDS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

2.3 DISTRIBUTION PANELBOARDS

- A. This section covers lighting and power panelboards (refer to schedules, notes on Drawings and the Electrical One-Line Diagram, of the Contract Drawings).
- B. All panelboards shall be of the circuit breaker type and shall be of one manufacturer.
- C. Branch panelboards shall be as indicated on the drawings and as specified herein. The lighting panelboards shall be of the dead-front, quick-make, quick-break, plug-in circuit breaker type, with trip indicating and trip free handles. All circuits shall be clearly and properly numbered and shall be provided with thermal magnetic protection. The panelboards shall be enclosed in code gauge, galvanized steel cabinets with smooth finished hinged doors without visible external fasteners and heavy chrome locks. Locks shall all be keyed alike. Each door shall have a directory card inside, covered with a plastic shield, filled in with black India ink or typewritten with circuit numbers and description indicated. Room numbers shall be coordinated with final room numbers as selected by Owner -- not numbers on Contract Documents.
- D. Branch panelboards shall be surface or flush mounted as indicated on the Contract Drawings.
- E. Circuit breakers for 120/208 volt systems shall be of 10,000 A.I.C. RMS symmetrical rating unless otherwise indicated on the Contract Drawings. For 277/480 volt systems, provide circuit breakers with 14,000 A.I.C. ratings unless otherwise indicated.

- F. All main bus and connections thereto in branch panelboards shall be copper. All bus bars shall extend full length of panelboards.
- G. All circuit breakers used to switch lights shall be SWD (switching duty) rated and U.L. listed for the purpose.
- H. Where required by the National Electrical Code, provide branch arc-fault circuit interrupters (A.F.C.I.'s) in branch panelboards, whether indicated on the panel schedule or not. They shall be U.L. listed, latest edition.
- I. Where branch circuit breakers feed hermetically, sealed compressor for cooling or refrigeration equipment, provide U.L. listed H.A.C.R.-style circuit breakers.
- J. Where branch circuit breakers are indicated or required to be ground-fault circuit-interrupting type (G.F.C.I.), they shall have test and reset buttons and be U.L. listed, latest edition. Do not share neutrals with other circuits.
- K. Where branch circuit breakers are feeding H.I.D. (high-intensity-discharge) loads, they shall be rated and listed for such loads. Provide proper circuit breaker whether indicated on panel schedules or not.
- L. Arc Flash Hazard warning labels shall be affixed to all panelboards in accordance with Article 110.16 of the National Electrical Code. All components protected by a manually operated arc energy reduction means shall have an additional label affixed that describes the location of the energy reduction means.
- M. Lockable breakers shall be provided for all breakers serving all HVAC equipment, Plumbing equipment, and kitchen appliances.

2.4 DISCONNECTING AND OVERCURRENT PROTECTIVE DEVICES

- A. Molded-Case Circuit Breaker (MCCB): Comply with UL 489, with interrupting capacity to meet available fault currents.
 - 1. Thermal-Magnetic Circuit Breakers:
 - a. Inverse time-current element for low-level overloads.
 - b. Instantaneous magnetic trip element for short circuits.
 - c. Adjustable magnetic trip setting for circuit-breaker frame sizes 250 A and larger.
 - 2. Adjustable Instantaneous-Trip Circuit Breakers:
 - a. Magnetic trip element with front-mounted, field-adjustable trip setting.
 - 3. Electronic trip circuit breakers:
 - a. RMS sensing.
 - b. Field-replaceable rating plug or field-replicable electronic trip.
 - c. Digital display of settings, trip targets, and indicated metering displays.
 - d. Multi-button keypad to access programmable functions and monitored data.
 - e. Ten-event, trip-history log. Each trip event shall be recorded with type, phase, and magnitude of fault that caused the trip.
 - f. Integral test jack for connection to portable test set or laptop computer.
 - g. Field-adjustable Instantaneous, Long- and short-time pickup, and Ground-fault pickup settings.
 - 4. GFCI Circuit Breakers: Single- and two-pole configurations with Class A ground-fault protection (6-mA trip).

5. GFEP Circuit Breakers: Class B ground-fault protection (30-mA trip).
6. AFCI Circuit Breakers: Comply with UL 1699; 120/240-V, single-pole configuration.
7. MCCB features and accessories:
 - a. Standard frame sizes, trip ratings, and number of poles.
 - b. Breaker handle indicates tripped status.
 - c. Lugs: Mechanical style, suitable for number, size, trip ratings, and conductor materials.
 - d. Ground-Fault Protection: Integrally mounted relay and trip unit with adjustable pickup and time-delay settings, push-to-test feature, and ground-fault indicator.
 - e. Shunt Trip: 120 V or 24V trip coil energized from separate circuit, set to trip at 75 percent of rated voltage.
 - f. Undervoltage Trip: Set to operate at 35 to 75 percent of rated voltage with field-adjustable 0.1- to 0.6-second time delay.
 - g. Multipole units enclosed in a single housing or factory assembled to operate as a single unit.
 - h. Handle Padlocking Device: Fixed attachment, for locking circuit-breaker handle in on or off position.

2.5 DISTRIBUTION TRANSFORMERS

- A. The Contractor shall provide dry-type transformers as manufactured by Square "D", G.E., Siemens, Eaton/Cutler-Hammer or equivalent. KVA ratings shall be as indicated on the electrical plans and shall have copper windings.
- B. Three phase transformers are to have 480 volt Delta primary and 120/208V/3Ø/4W secondary. 30 KVA transformers and larger are to be supplied with 2-22% full capacity taps above and (4) 2-1/2% full capacity taps below primary voltage. Exceptions to the above will be shown on the electrical plans.
- C. Transformers 30 KVA and above shall be Class H, 115°C. and shall have the ability to carry a continuous 15% overload without exceeding a 115°C rise above 40° ambient.
- D. Transformer coils shall be vacuum impregnated with non-hygroscopic, thermosetting varnish. Each layer shall have end fillers or tie downs to provide maximum mechanical strength. Insulation systems and their construction techniques shall be listed by Underwriters Laboratories.
- E. Transformer coils shall have a final wrap of electrical insulating material designed to prevent injury to the coil wire. Transformers having coils with magnet wire visible will not be acceptable.
- F. All cores to be manufactured from a high grade, non-aging, silicon steel with high magnetic permeabilities, low hysteresis and eddy current losses. Magnetic flux densities are to be kept well below saturation to allow for a minimum of 10% over voltage excitation. The cores shall be clamped with structural angles (formed angles not acceptable) and bolted to the enclosure to prevent damage during shipment or rough handling.
- G. The core and coil unit shall be completely isolated from the enclosure by means of a vibration isolating system and shall be so designed as to provide for continual securement of the core and coil unit to the enclosure. Sound isolating systems requiring the removal of all tie down facilities will not be acceptable.

- H. Transformers 15 KVA thru 45 KVA shall be provided with interchangeable mounting for floor or wall.
- I. The maximum top of case temperature shall not exceed 35°C above ambient.
- J. The entire transformer enclosure shall be degreased, cleaned, phosphatized, primed and finished with baked enamel.
- K. The core and coils shall be visibly grounded to the frame of the transformer cubicle by means of a flexible grounding strap of adequate size.
- L. Sound levels shall be guaranteed by the manufacturer and substantiated by certified tests on each unit furnished. The sound levels are not to exceed the following values: 10 to 45 KVA, 42 D.B. to 150 KVA; 45 D.B., 225 to 300 KVA; 50 D.B. and 500 KVA, 54 D.B.
- M. If a particular "K" rating is specified for a dry-type transformer, that rating shall be provided.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify actual conditions with field measurements prior to ordering panelboards to verify that equipment fits in allocated space in, and comply with, minimum required clearances specified in NFPA 70.
- B. Receive, inspect, handle, and store panelboards according to NECA 407 and NEMA PB 1.1.
- C. Examine panelboards before installation. Reject panelboards that are damaged or rusted or have been subjected to water saturation.
- D. Examine elements and surfaces to receive panelboards for compliance with installation tolerances and other conditions affecting performance of the Work. Ensure area to receive panelboard has adequate clearance for panelboard installation.
- E. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Coordinate layout and installation of panelboards and components with other construction that penetrates walls or is supported by them, including electrical and other types of equipment, raceways, piping, encumbrances to workspace clearance requirements, and adjacent surfaces. Maintain required workspace clearances and required clearances for equipment access doors and panels.
- B. Install panelboards and accessories according to NECA 407 and NEMA PB 1.1.
- C. Temporary Lifting Provisions: Remove any temporary lifting eyes, channels, and brackets and temporary blocking of moving parts from panelboards.

- D. Mount top of trim 90 inches above finished floor unless otherwise indicated or where required to maintain center of trip handle on overcurrent protection devices below 79-inches. Where mounted in groups, align top of trim or tub for all panels in an area.
- E. Mount panelboard cabinet plumb and rigid without distortion of box.
- F. Mount recessed panelboards with fronts uniformly flush with wall finish and mating with back box.
- G. Provide steel slotted support structures where required for freestanding equipment or where building mounting surface is unsuitable.
- H. Install overcurrent protective devices and controllers not already factory installed. Set field-adjustable, circuit-breaker trip ranges.
- I. Install filler plates in unused spaces.
- J. Stub four (4) 1-inch and two (2) 1-1/4-inch empty conduits from recessed panelboard into accessible ceiling space or space designated to be ceiling space in the future. Provide suitable closures for spare conduits and identify with a suitable label.
- K. Arrange conductors in gutters into groups and bundle and wrap with wire ties after completing load balancing.
- L. Comply with NECA 1.

3.3 CONNECTIONS

- A. Tighten electrical connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A-486B. Where a tightening torque is indicated as a numeric value on equipment or in installation instructions provided by the manufacturer, use a calibrated torque tool to achieve that indicated torque value, unless the equipment manufacturer has provided installation instructions for an alternative method of achieving the required torque.

3.4 IDENTIFICATION

- A. Comply with requirements in Section 260553, "Identification for Electrical Systems" and as noted below:
 - 1. Provide a directory card inside each door, covered with a plastic non-yellowing shield. Directory Card to indicate installed circuit loads after balancing panelboard loads. Obtain approval before installing. Use a computer to create directory in Microsoft Excel; handwritten directories are not acceptable. Digital versions to be provided to Owner.
 - 2. The room numbers used to fill out the panel directories shall match the actual final name and numbering scheme selected by the Owner. They shall not be filled out per the construction drawing numbering scheme, unless the Contractor is directed to do so by the Architect or Engineer.
 - 3. Provide nameplate for each panelboard.
 - 4. For distribution panelboards, provide nameplate for each branch circuit device.

5. All distribution equipment shall be shipped from the manufacturer with factory-applied warning labels affixed to the outside front of the equipment (as it will be installed per the plans). All labeling shall be in compliance with NFPA 70 requirements.
6. Labels affixed to equipment by the equipment manufacturer shall comply with drawing and specification labeling requirements or shall be omitted by the manufacturer and field-installed by the Contractor. Labels which are factory-installed and not in compliance shall be removed and replaced and equipment enclosures refinished or replaced by the manufacturer to repair finish.

3.5 FIELD QUALITY CONTROL

- A. Perform the following Tests and Inspections:
 1. Visual and Mechanical Inspection:
 - a. Examine equipment nameplate data and confirm proper identification.
 - b. Inspect the physical, electrical, and mechanical condition of the equipment and all components in accordance with the manufacturers' instructions.
 - c. Inspect anchorage, alignment, and grounding.
 - d. Inspect bolted electrical connections and terminations for high resistance by verifying tightness with calibrated torque-wrench method in accordance with manufacturer's published data.
 - e. Exercise all active components.
 - f. Inspect all mechanical indicating devices for correct operation.
 2. Electrical Acceptance Testing:
 - a. Perform insulation resistance test for one minute on each panelboard bus, component, connecting supply, feeder, and control circuit. Open control and metering circuits within the panelboard, and remove neutral connection to surge protection and other electronic devices prior to insulation test. Reconnect after test. Test voltages and minimum resistance shall be in accordance with manufacturer's published data.
 3. Circuit Breaker Testing: For all circuit breakers with electronic trip units, determine minimum pickup current, long-time and short-time pickup and delay, and instantaneous pickup by secondary current injection. Certify compliance with test parameters and ensure settings match recommendations from final approved power system study.
 4. Test ground-fault protection of equipment for service equipment per NFPA 70.
 5. Test and adjust controls, remote monitoring, and safeties. Replace damaged and malfunctioning controls and equipment.
- B. Correct malfunctioning units on-site, where possible, and retest to demonstrate compliance; otherwise, replace with new units and retest.
- C. Panelboards will be considered defective if they do not pass tests and inspections.
- D. Prepare test and inspection reports, including a certified report that identifies panelboards included and that describes results. Include notation of deficiencies detected, remedial action taken, and observations after remedial action.

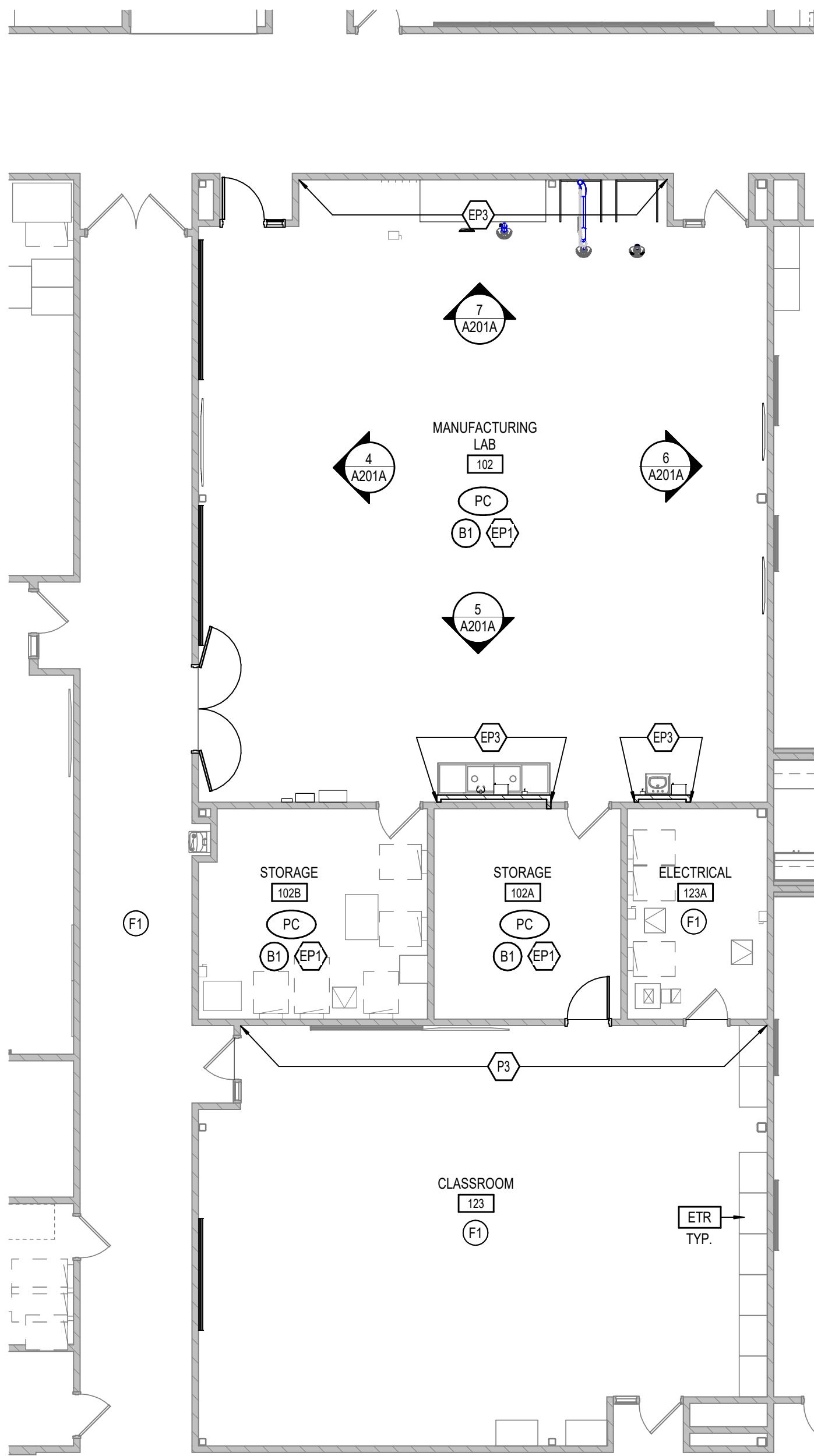
3.6 CLEANING

- A. On completion of installation, inspect interior and exterior of panelboards. Remove paint splatters and other spots. Vacuum dirt and debris; do not use compressed air to assist in cleaning. Repair exposed surfaces to match original finish.

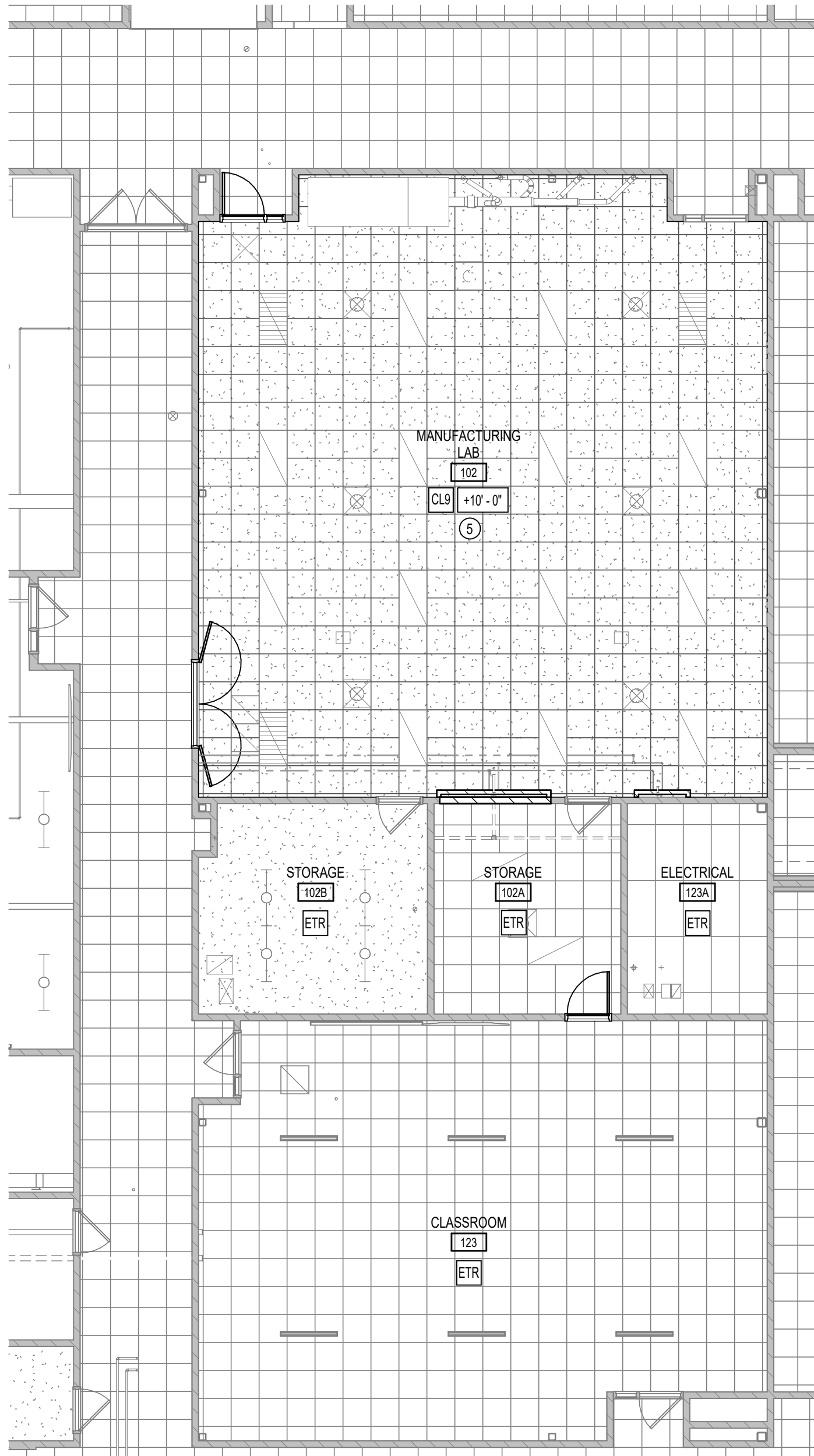
3.7 ADJUSTING

- A. Adjust moving parts and operable component to function smoothly, and lubricate as recommended by manufacturer.
- B. All circuit breakers identified as spares shall be left in the OFF position.

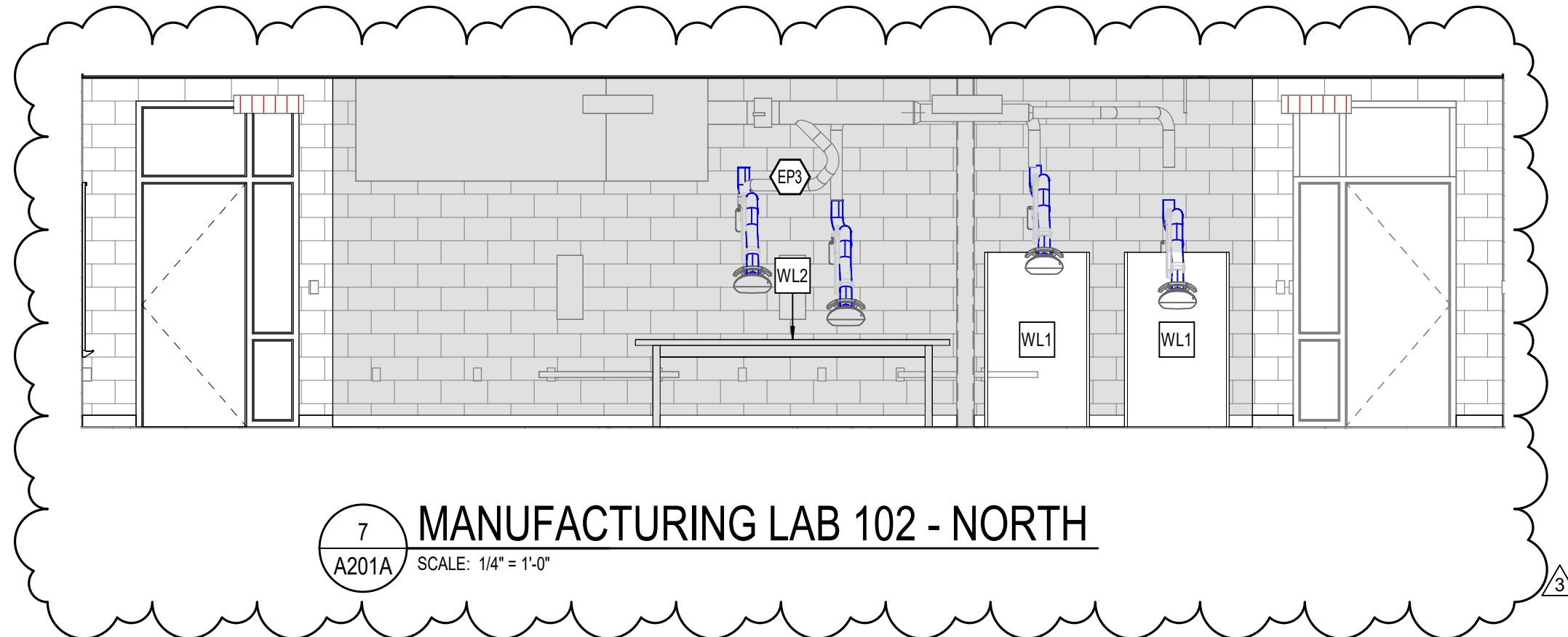
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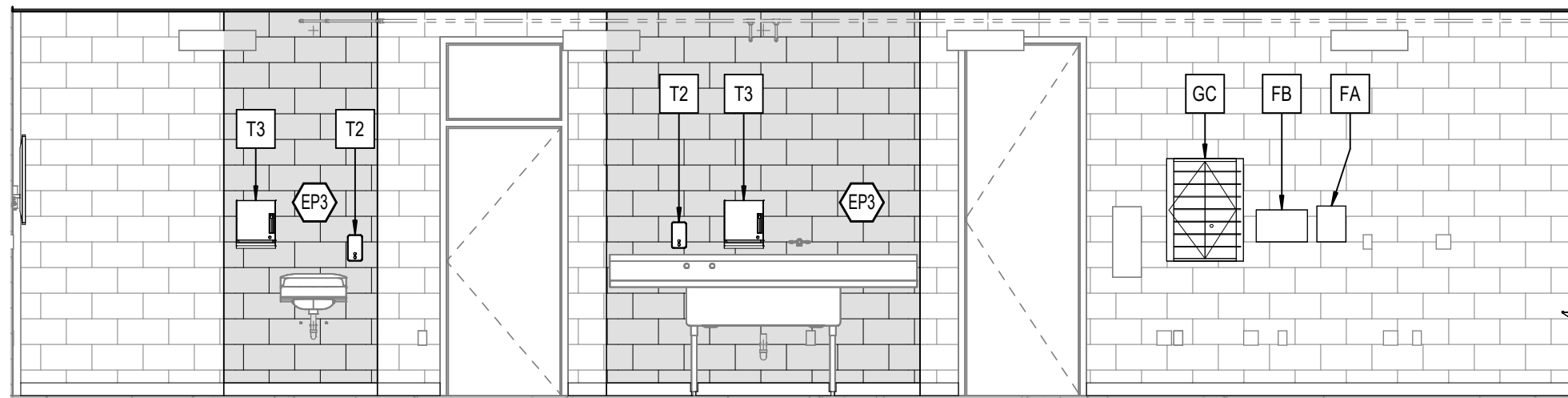
8 LOWER LEVEL FINISH PLAN - UNIT A
A201A SCALE: 1/8" = 1'-0"



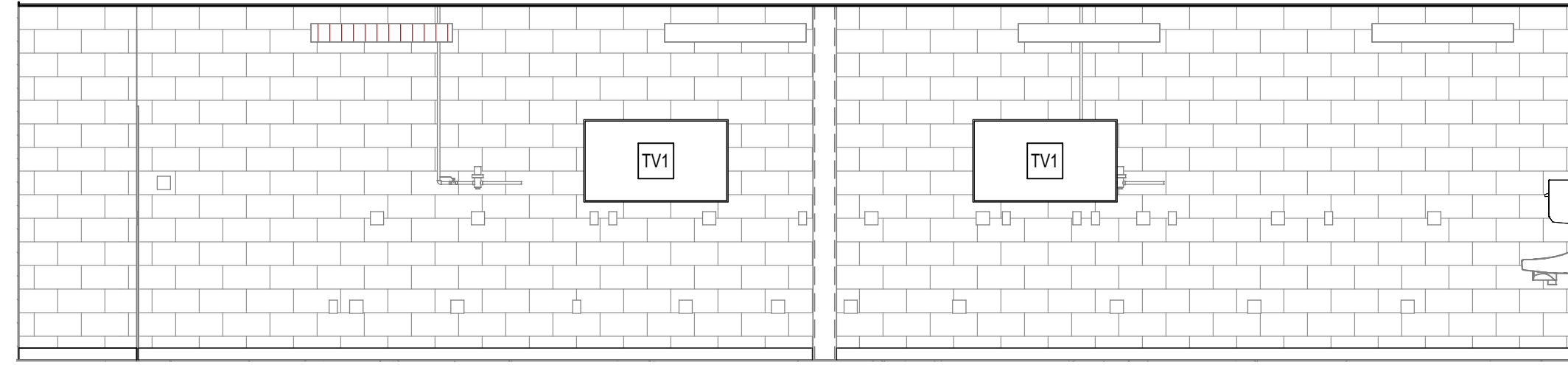
3 LOWER LEVEL REFLECTED CEILING PLAN - UNIT A
A201A SCALE: 1/8" = 1'-0"



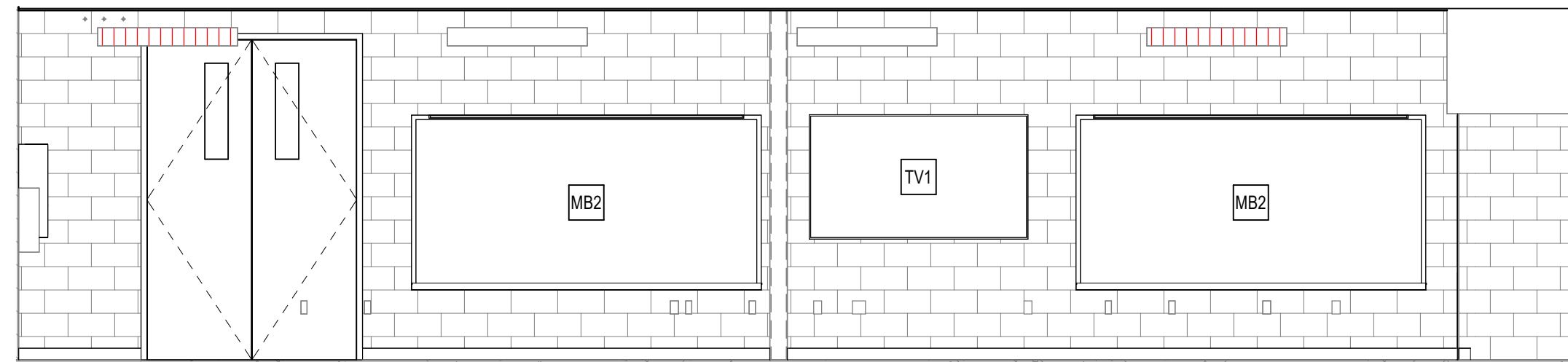
7 MANUFACTURING LAB 102 - NORTH
A201A SCALE: 1/4" = 1'-0"



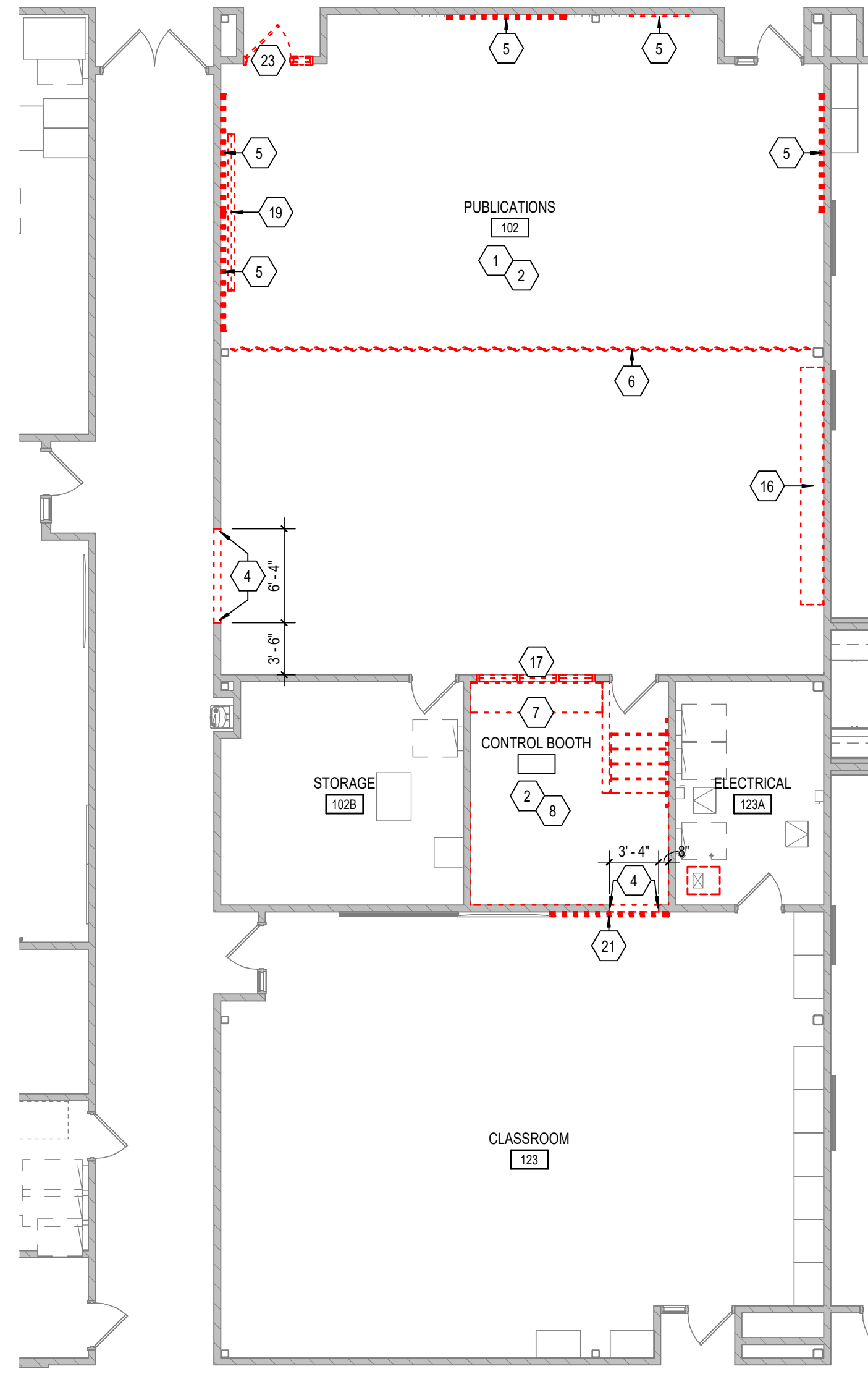
5 MANUFACTURING LAB 102 - SOUTH
A201A SCALE: 1/4" = 1'-0"



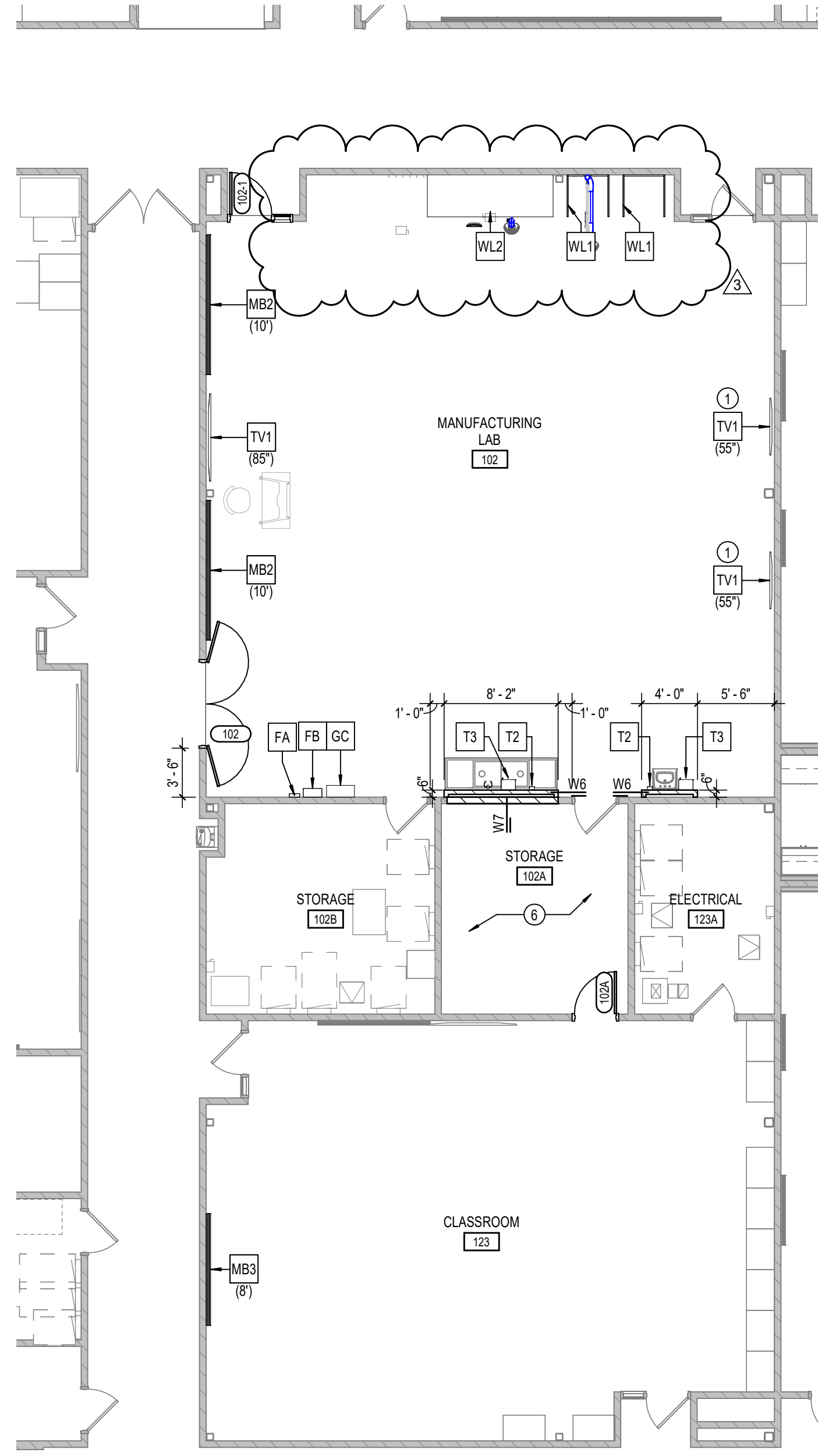
6 MANUFACTURING LAB 102 - EAST
A201A SCALE: 1/4" = 1'-0"



4 MANUFACTURING LAB 102 - WEST
A201A SCALE: 1/4" = 1'-0"



1 LOWER LEVEL DEMOLITION PLAN - UNIT A
A201A SCALE: 1/8" = 1'-0"



2 LOWER LEVEL - UNIT A
A201A SCALE: 1/8" = 1'-0"

SEE A200 FOR WALL TYPES AND NOTES. GENERAL NOTES. GENERAL DEMOLITION NOTES. GENERAL REFLECTED CEILING PLAN NOTES. AND GENERAL FINISH NOTES. SEE A600 FOR EQUIPMENT AND CASEWORK SCHEDULES, ELEVATIONS, & DETAILS.

DEMOLITION NOTES

- 1 REMOVE LAY-IN CEILING COMPLETE.
- 2 REMOVE VCT FLOORING AND BASE COMPLETE.
- 3 REMOVE CARPET AND BASE COMPLETE.
- 4 REMOVE PORTION OF WALL INDICATED ON DRAWING.
- 5 REMOVE MARKERBOARD/TACKBOARD COMPLETE.
- 6 REMOVE CURTAIN AND TRACK COMPLETE.
- 7 REMOVE CASEWORK/COUNTERTOP COMPLETE. SALVAGE TALL STORAGE CABINETS FOR REINSTALLATION.
- 8 REMOVE STAIRS, CONCRETE SLAB, AND CMU SUPPORT WALLS COMPLETE.
- 9 REMOVE DOOR AND FRAME COMPLETE.
- 10 REMOVE MONITOR COMPLETE. RETURN TO OWNER.
- 11 REMOVE WALL MIRRORS COMPLETE.
- 12 REMOVE WOOD ATHLETIC FLOORING AND BASE COMPLETE.
- 13 REMOVE RUBBER ATHLETIC FLOORING AND BASE COMPLETE.
- 14 REMOVE LOCKERS COMPLETE.
- 15 REMOVE CYCLOPAMA AND COVE BASE COMPLETE.
- 16 REMOVE WINDOW AND FRAME COMPLETE.
- 17 REMOVE WALL MOUNTED PENCIL SHARPENER.
- 18 REMOVE PROJECTION SCREEN COMPLETE.
- 19 REMOVE LAY-IN CEILING TILES COMPLETE. EXISTING CEILING GRID TO REMAIN.
- 20 SALVAGE MARKERBOARD FOR REINSTALLATION.
- 21 REMOVE GYPSUM BOARD CEILING COMPLETE.
- 22 REMOVE DOOR LEAF AND HARDWARE COMPLETE. EXISTING FRAME TO REMAIN.

PLAN NOTES

- 1 MOUNT BOTTOM OF TV 3 ABOVE COUNTERTOP HEIGHT.
- 2 CEILING TILE REPLACEMENT ONLY. INSTALL NEW CEILING TILES INTO EXISTING CEILING GRID.
- 3 PROVIDE NEW EXPANSION JOINT COVER FOR EXISTING EXPANSION JOINT AS REQUIRED.
- 4 HOLD COUNTER TOP 2" OFF OF WALL.
- 5 PROVIDE 2x2 ACCESS PANEL IN CL4 AT LIGHTING CONTROL BOX LOCATIONS AS REQUIRED.
- 6 PATCH AND REPAIR EXISTING SLAB AS REQUIRED FOR NEW FLOOR FINISH.
- 7 REMOVE AND REINSTALL EXISTING LAY-IN CEILING AS REQUIRED FOR ABOVE CEILING WORK. TEMPORARILY SUPPORT ALL EXISTING CEILING MOUNTED EQUIPMENT AND DEVICES AS REQUIRED.
- 8

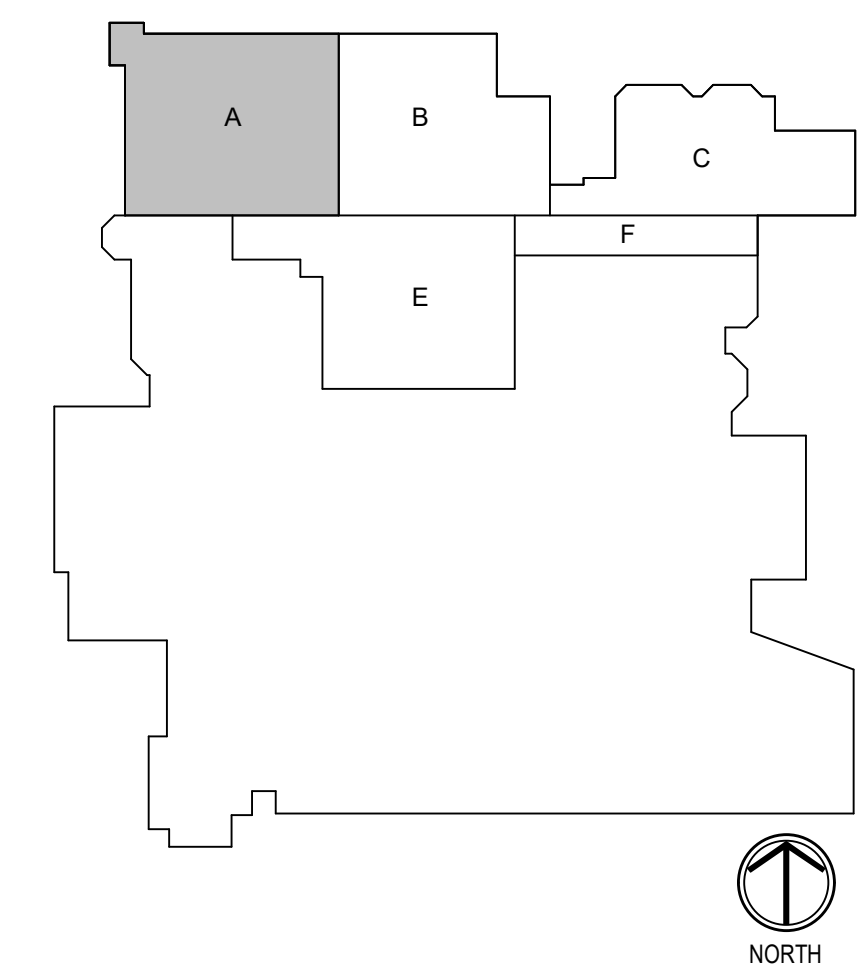
FINISH PLAN NOTES

- F1 NO FINISH WORK IN THIS AREA U.N.O.
- F2 TOUCH UP PAINT AS REQUIRED DUE TO EQUIPMENT AND/OR LOCKER REMOVAL. PAINT TO MATCH EXISTING COLOR AND SHEEN. ALL WALL GRAPHICS EXISTING TO REMAIN.
- F3 WALLS SURROUNDING CUSTODIAL MOP SINK TO RECEIVE (FRP) LENGTH AS NECESSARY. MINIMUM OF 2'-0" ON EITHER SIDE OF SINK. FRP TO START AT TOP OF BASE AND RUN FULL PANEL WIDTH (4'-0").
- F4 PAINT CONCRETE BENCHES TO MATCH (EPN).
- F5 INSTALL (C1) OVER ENTIRE FLOOR. PROVIDE 18'-0" X 78.7" PIECE OF (SV1) CHROMA FLOOR AND (2) ROLLS OF CHROMA GAFF TAPE FOR SCHOOL TO USE AS DESIRED.
- F6 ACOUSTIC PANELS IN THIS SPACE TO BE WRAPPED WITH MATERIAL IDENTIFIED IN ADJACENT FINISH TAG (F5).
- F7 INSTALL WALL TILE IN RANDOM GRADIENT AS SHOWN ON ELEVATION. (WT1) TO BE MORE DENSE NEAR CEILING. (WT2) AND (WT3) TO BE MORE DENSE NEAR FLOOR.
- F8 EXISTING STONE TRANSITION EXISTING TO REMAIN.

REFLECTED CEILING LEGEND

- FLUORESCENT LIGHT FIXTURES, RECESSED OR SURFACED MOUNTED. SEE ELECTRICAL DRAWINGS
- DOWNLIGHT/HIGH BAY LIGHT FIXTURE. SEE ELECTRICAL DRAWINGS
- CEILING MOUNTED PROJECTOR. SEE TECHNOLOGY DRAWINGS
- RETURN/EXHAUST GRILL. SEE MECHANICAL DRAWINGS
- SUPPLY AIR GRILL. SEE MECHANICAL DRAWINGS
- LINEAR SLOT SUPPLY AIR GRILL. SEE MECHANICAL DRAWINGS
- SUSPENDED ACOUSTICAL LAY-IN CEILING
MFG: ARMSTRONG MODEL #1713
STYLE: SCHOOL ZONE HIGH GAC, HIGH NRC
DESCRIPTION: SQUARE EDGE
COLOR: WHITE SIZE: 24" x 24" x 3/4"
LOCATION: PUBLICATIONS, STORAGE
- SUSPENDED ACOUSTICAL LAY-IN CEILING
MFG: ARMSTRONG MODEL #1935
STYLE: ULTIMA HEALTH ZONE
DESCRIPTION: SQUARE EDGE
COLOR: WHITE SIZE: 24" x 24" x 3/4"
LOCATION: RESTROOMS/LOCKER ROOMS
- SUSPENDED ACOUSTICAL LAY-IN CEILING
MFG: ARMSTRONG MODEL #3352
STYLE: OPTIMA
DESCRIPTION: SQUARE EDGE
COLOR: WHITE SIZE: 24" x 24" x 1"
LOCATION: VIDEO STUDIO
- SUSPENDED GYPSUM WALLBOARD CEILING SYSTEM
USE 5/8" WALLBOARD
PAINT: (P2) SW7005 PURE WHITE
- GYPSUM WALLBOARD BULKHEAD
PAINT: (P2) SW7005 PURE WHITE
- EXPOSED STRUCTURE
PAINT: (P2) SW7005 PURE WHITE
- MEDIA CLASSROOM DOUBLE CEILING
INSTALL CEILING TYPE 'CL2' AS INDICATED ON PLAN
INSTALL CEILING TYPE 'CL4' AT 1'-0" - 2'-0" A.F.F. WITH SOUND BATT'S ABOVE CEILING
ACOUSTICAL SEALANT AT PERIMETER AND AT ALL PENETRATIONS OF 'CL4'
- SUSPENDED PIPE GRID
COLOR: BLACK
SIZE: 48" x 48"
PIPE: 1" DIA.
LOCATION: VIDEO STUDIO
SEE 11 62 43 FOR MORE INFO.
- MANUFACTURING LAB DOUBLE CEILING
INSTALL CEILING TYPE 'CL2' AS INDICATED ON PLAN
INSTALL CEILING TYPE 'CL4' AT 1'-0" - 5'-0" A.F.F. WITH SOUND BATT'S ABOVE CEILING
ACOUSTICAL SEALANT AT PERIMETER AND AT ALL PENETRATIONS OF 'CL4'
- CEILING ELEVATION MARK ABOVE FINISHED FLOOR (AT THAT LOCATION IF MULTIPLE FLOOR LEVELS ARE PRESENT)

KEY PLAN



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PROJECT:
CENTER GROVE COMMUNITY SCHOOL CORPORATION
CENTER GROVE HIGH SCHOOL
RENOVATIONS - PACKAGE 2
2717 S MORGANTOWN RD
GREENWOOD, IN, 46143

SCOPE DRAWINGS:
These drawings include the general scope of the project in terms of architectural design, including the elements of the building, the major mechanical systems and the plan of electrical, mechanical and electrical systems.
The drawings do not necessarily include a description of the work to be performed.
On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:
3 ADDENDUM #3 09/04/2026

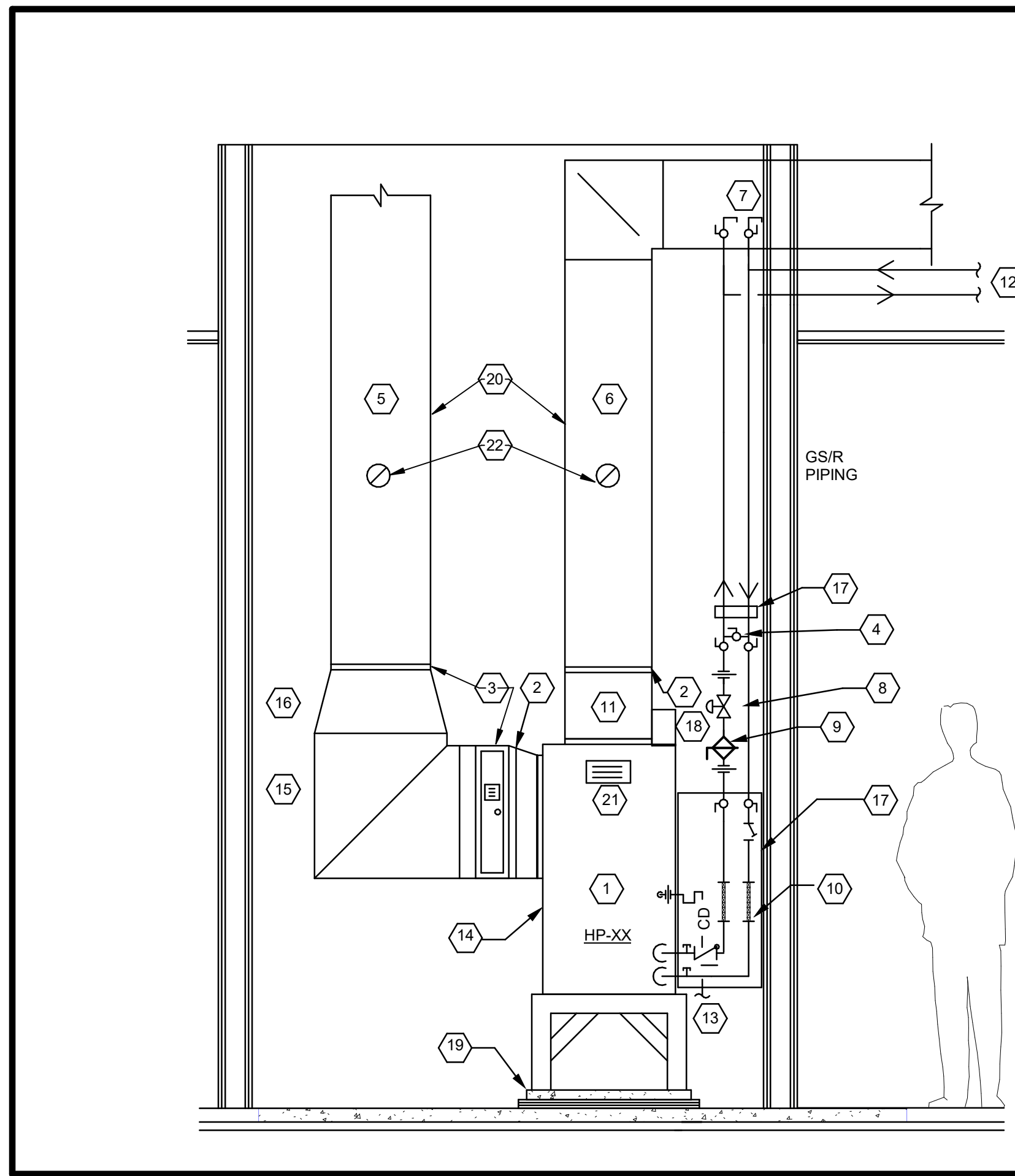
ISSUE DATE 07/31/2026 DRAWN BY JTL CHECKED BY BCH

DRAWING TITLE:
LOWER LEVEL FLOOR PLAN - UNIT A

CERTIFIED BY:
BRENTON C. HITE
REGISTERED
No. AR11700184
STATE OF INDIANA
ARCHITECT
BCH

DRAWING NUMBER
A201A

PROJECT NUMBER
2025075

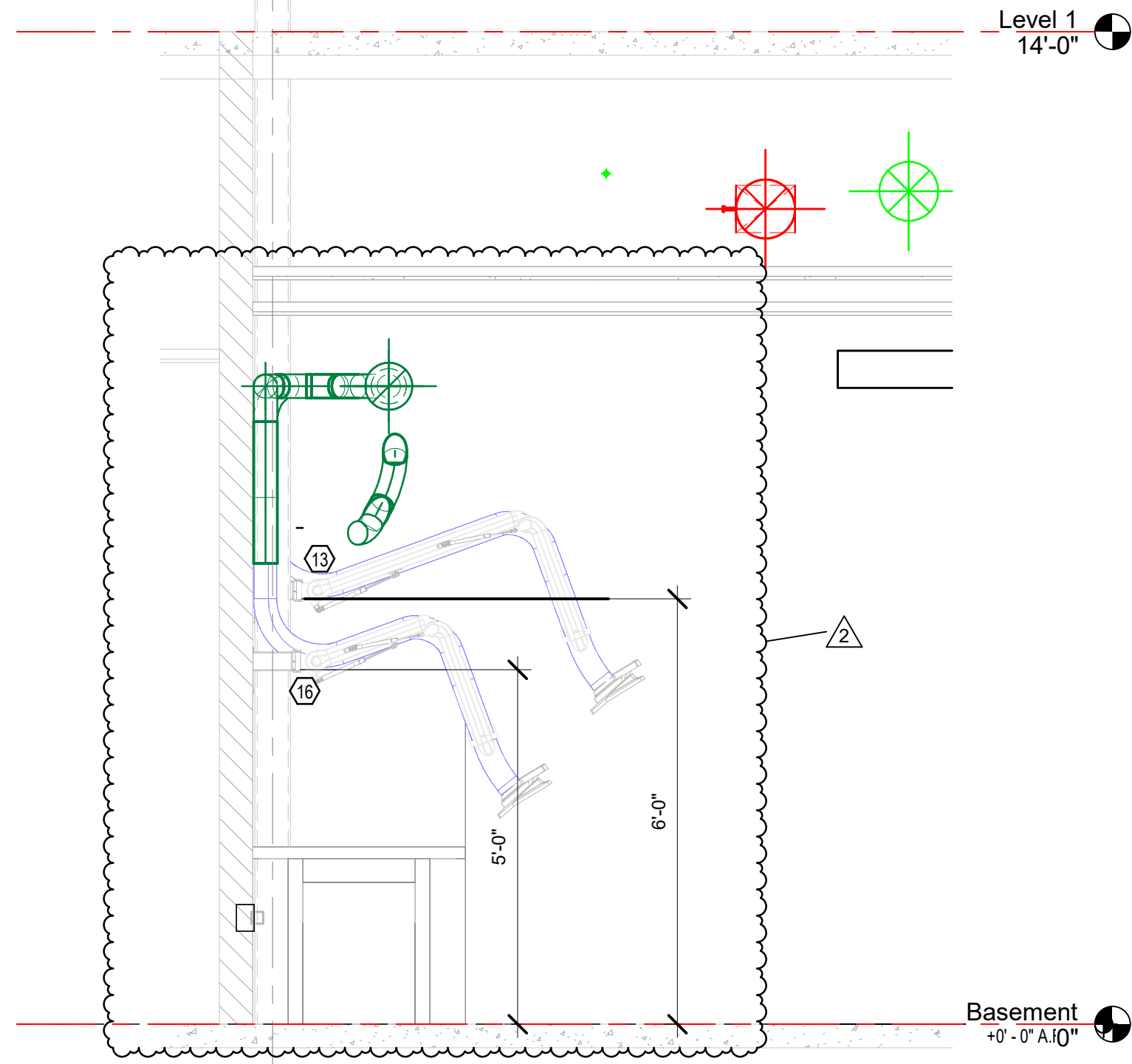


HEAT PUMP DETAIL TAG NOTES:

1. VERTICAL HEAT PUMP UNIT. DO NOT BLOCK ACCESS PANEL FOR HEAT PUMP UNIT WITH ANY OBJECT. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCES.
2. PROVIDE FLEXIBLE CANVAS CONNECTIONS AT UNIT CONNECTION. TRANSITION DUCTWORK TO UNIT OPENING AS NEEDED.
3. PROVIDE FILTER HOUSING SEPARATE OF HEAT PUMP WITH 24X24 IN MERV 13.2 IN PLEATED FILTERS. FILTER HOUSING SHALL HAVE CAM LOCKS AND SHALL BE AIR TIGHT. FILTERS MAY BE INSTALLED IN HORIZONTAL OR VERTICAL BASED ON FIELD CONDITIONS.
4. BYPASS VALVE. NC.
5. RETURN DUCTWORK. REFER TO DRAWINGS FOR SIZE.
6. SUPPLY DUCTWORK. REFER TO DRAWINGS FOR SIZE.
7. MANUAL AIR VENTS. SEE DETAILS.
8. PROVIDE LINE SIZED TWO POSITION TWO WAY VALVE.
9. AUTO-FLOW CONTROL VALVE.
10. PROVIDE SS FLEX CONNECTORS. HOSE KITS SHALL MATCH PIPE RUNOUT SIZE SCHEDULED. LINE SIZED. TRANSITION DOWN AT UNIT AS REQUIRED. REFER TO SPECIFICATIONS. HOSE KITS SIZED BASED ON UNIT CONNECTION DIMENSION IS UNACCEPTABLE.
11. TRANSITION FROM FULL SIZE OF UNIT OUTLET TO DUCT SIZE INDICATED ON THE DRAWINGS.
12. REFER TO DRAWINGS FOR CONTINUATION OF PIPING. REFER TO THE RUNOUT SCHEDULES.
13. PROVIDE AND ROUTE CONDENSATE TO NEAREST FLOOR DRAIN. PROVIDE LINE SIZED CONDENSATE CLEANOUT IMMEDIATELY DOWNSTREAM OF EACH CONDENSATE P-TRAP. ENSURE ALL CONDENSATE PIPING IS INSTALLED AS TO NOT CREATE A TRIP HAZARD.
14. MAINTAIN MANUFACTURER'S REQUIRED CLEARANCE ON SIDE OF HEAT PUMP TO ALLOW FOR MAINTENANCE ACCESS.
15. PROVIDE ELBOW WITH LONG TRAILING EDGE VANES FROM SIDE ACCESS FILTER TO RETURN DUCT DEPTH.
16. TRANSITION DUCT FROM ELBOW TO DUCT SIZE INDICATED.
17. PROVIDE VIBRATION DAMPING MOUNTS/CLAMPS TO ISOLATE PIPING FROM STRUCTURE.
18. FACTORY MOUNTED INTEGRAL DISCONNECT.
19. NEOPRENE PADS AT EACH CORNER OF STAND SHALL BE PROVIDED. PADS SHALL BE RATED FOR 0.38" DEFLECTION. TYPICAL.
20. PROVIDE ALL HEAT PUMPS WITH 1-1/2" INTERNAL SOUND LINER IN SA AND RA DUCT FOR MINIMUM OF 10' DOWNSTREAM OF HEAT PUMP.
21. ENGRAVED ID PLACARD. COORDINATE WITH OWNER AND MANUFACTURER'S INSTRUCTIONS.
22. 4" FACE DIAL THERMOMETER (TYP) DWYER SERIES BT ADJUSTABLE BIMETAL THERMOMETER WITH 0-100F RANGE AND 6" STEM LENGTH.

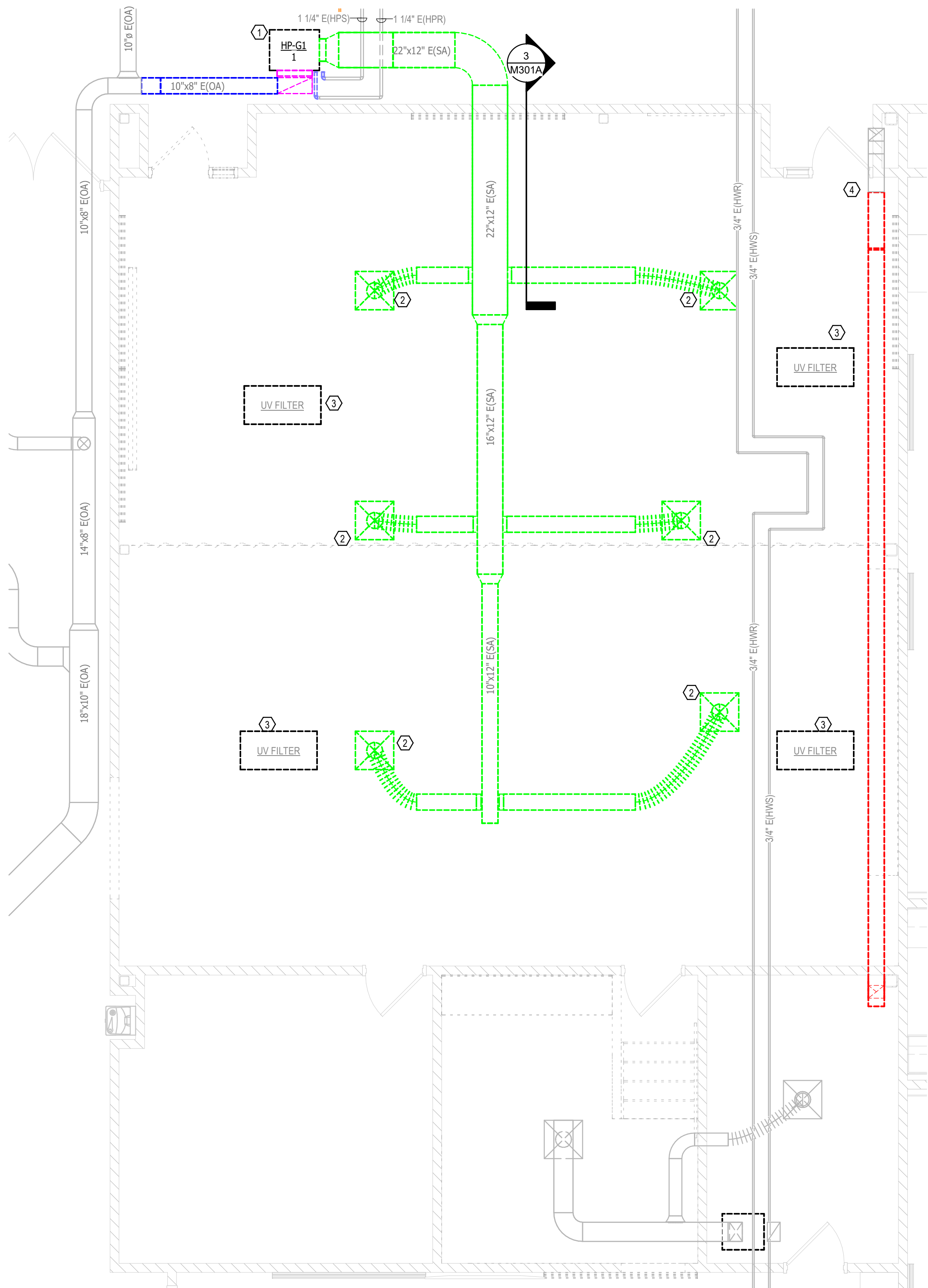
4 VERTICAL HEAT PUMP INSTALLATION DETAIL (TYPICAL)

NO SCALE REF: M301A



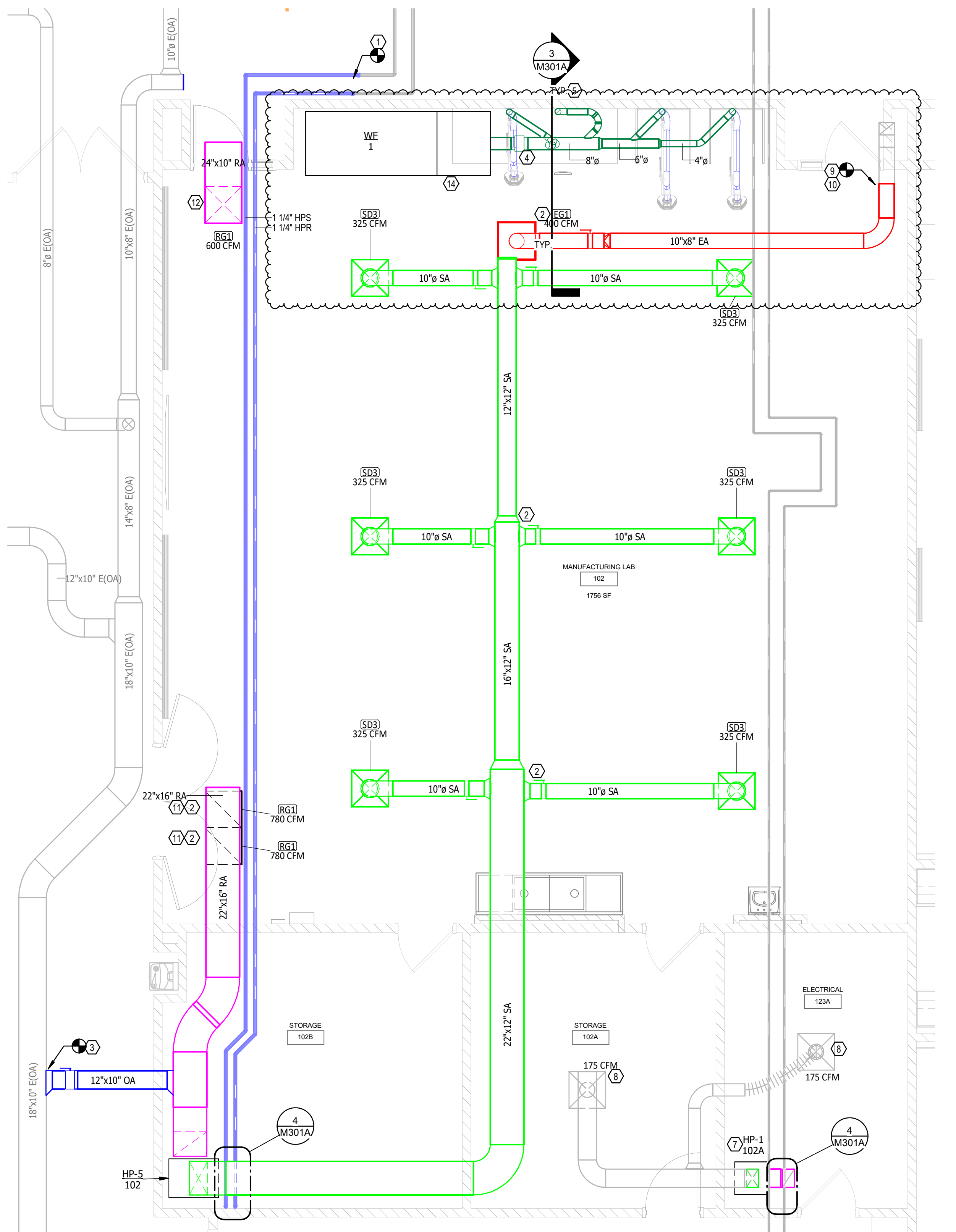
3 SOURCE CAPTURE ARM ELEVATION

NO SCALE REF: M301A



1 MECHANICAL PHASE 2 DEMOLITION

SCALE: 1/4" = 1'-0"



2 MECHANICAL PHASE 2 PLAN

SCALE: 1/4" = 1'-0"

PLAN NOTES - M301A Demo

1. REMOVE EXISTING HORIZONTAL HEAT PUMP ABOVE CEILING COMPLETE. REMOVE ALL DUCT AND PIPE CONNECTIONS AND ACCESSORIES COMPLETE. PREP EXISTING HEAT PUMP SUPPLY AND RETURN PIPING FOR RECONNECTION REFER TO NEW PLANS. CAP EXISTING OA DUCTWORK AT NEAREST MAIN ABOVE CEILING.
2. REMOVE EXISTING DIFFUSERS/GRILLES AND ALL ASSOCIATED FLEX AND BRANCH DUCTWORK COMPLETE.
3. REMOVE CEILING MOUNTED FILTER AND PROVIDE TO THE OWNER.
4. REMOVE EXISTING EA DUCTWORK BACK TO POINT INDICATED AND PREP FOR RECONNECTION. PROVIDE PRE CONSTRUCTION INSPECTION AND BALANCE REPORT ON EXISTING EF ON MAIN LEVEL, ROOF ABOVE.

PLAN NOTES - M301A

1. CONNECT NEW 1.25 HPSIR TO EXISTING AND EXTEND TO NEW HP LOCATION IN STORAGE ROOM.
2. LOCATE VOLUME DAMPERS IN COORDINATION WITH GYP DOUBLE CEILING FOR ACCESS. PROVIDE ACCESS PANELS AT ALL LOCATIONS REQUIRING MAINTENANCE AND DAMPER OPERATION.
3. PROVIDE NEW OA AND CONNECT TO HEAT PUMP RETURN. BALANCE TO 600 CFM.
4. PROVIDE SPARK TRAP AT INLET TO WELDING COLLECTOR SIMILAR TO US DUCT 6".
5. LOCATE SOURCE CAPTURE ARMS IN A MANNER TO REACH ALL WELDING BOOTH AREA AND WELDING TABLE AREA. REFER TO ELEVATION FOR SUGGESTED MOUNTING HEIGHT TO ACCOMMODATE ALL WELDING LOCATIONS. COORDINATE MOUNTING WITH WELDING LOCATIONS CLOSELY WITH THE OWNER.
7. REPLACE EXISTING HEAT PUMP WITH LIKE UNIT. CONNECT TO EXISTING HPSIR PIPING AND SUPPLY AND RETURN DUCTWORK.
8. BALANCE EXISTING DIFFUSERS TO CFM LISTED.
9. CONNECT NEW EA DUCT TO EXISTING. VERIFY EXISTING EXHAUST FAN LOCATED ON MAIN LEVEL. ROOF IS IN WORKING CONDITION AND REPORT TO THE ENGINEER OF RECORD. BALANCE EXISTING EXHAUST FAN TO DELIVER 400 CFM AT NEW EXHAUST GRILLE.
10. EXISTING EXHAUST FAN TO BE INTERLOCKED WITH WELDING OPERATION. WHEN WELDING, SOURCE CAPTURE IS ACTIVE THE EXHAUST FAN IS TO BE ACTIVE.
11. LOCATE VOLUME DAMPERS IN COORDINATION WITH GYP DOUBLE CEILING FOR ACCESS. PROVIDE ACCESS PANELS AT ALL LOCATIONS REQUIRING MAINTENANCE AND DAMPER OPERATION. PROVIDE MEANS OF BALANCING RETURN DUCT DROPS TO GRILLES TO MAINTAIN NEGATIVE PRESSURE IN THE ROOM WITH EXISTING EXHAUST FAN OUTLET AND OUTSIDE AIR INLET.
12. PROVIDE 2"X4" RELIEF TO DRAIN EXHAUST PLENUM. TRANSFER THROUGH EXISTING OPENING TO CORRIDOR PLENUM.
13. PROVIDE WALL MOUNTED WELD EXTRACTION ARM SIMILAR TO MICRO AIR SCA 407. SOURCE CAPTER ARMS ARE TO BE 7' IN LENGTH AND 4" IN DIAMETER. SOURCE CAPTURE ARMS TO BE COORDINATED WITH OWNER FOR EXACT LOCATION BUT MUST BE MOUNTED IN A MANNER IN WHICH THE SNORKEL END CAN REACH THE DESIGNATED WELDING SPACE AS REQUIRED.
14. MAINTAIN FILTER CARTRIDGE CLEARANCES AS REQUIRED BY THE MANUFACTURER. PROVIDE DUST COLLECTION HOPPER CONNECTION FOR THE OWNER'S USE WITH BLAST GATE. UNIT IS TO BE SUPPORTED FROM STRUCTURE WITH VIBRATION ISOLATION.
16. PROVIDE WALL MOUNTED WELD EXTRACTION ARM SIMILAR TO MICRO AIR SCA 405. SOURCE CAPTER ARMS ARE TO BE 5' IN TOTAL LENGTH AND 4" IN DIAMETER. SOURCE CAPTER ARMS TO BE COORDINATED WITH OWNER FOR EXACT LOCATION BUT MUST BE MOUNTED IN A MANNER IN WHICH THE SNORKEL END CAN REACH THE DESIGNATED WELDING SPACE AS REQUIRED.

WELD FILTER COLLECTION GENERAL NOTES

REQUIRED TO COMPLETE THE SCOPE OF WORK.
NOTE: NOT ALL NOTES MAY BE USED.

CONSTRUCTION LAB TOOLS / CFM REQUIREMENTS

NAME: VACUUM DUCT DROP TO ARM

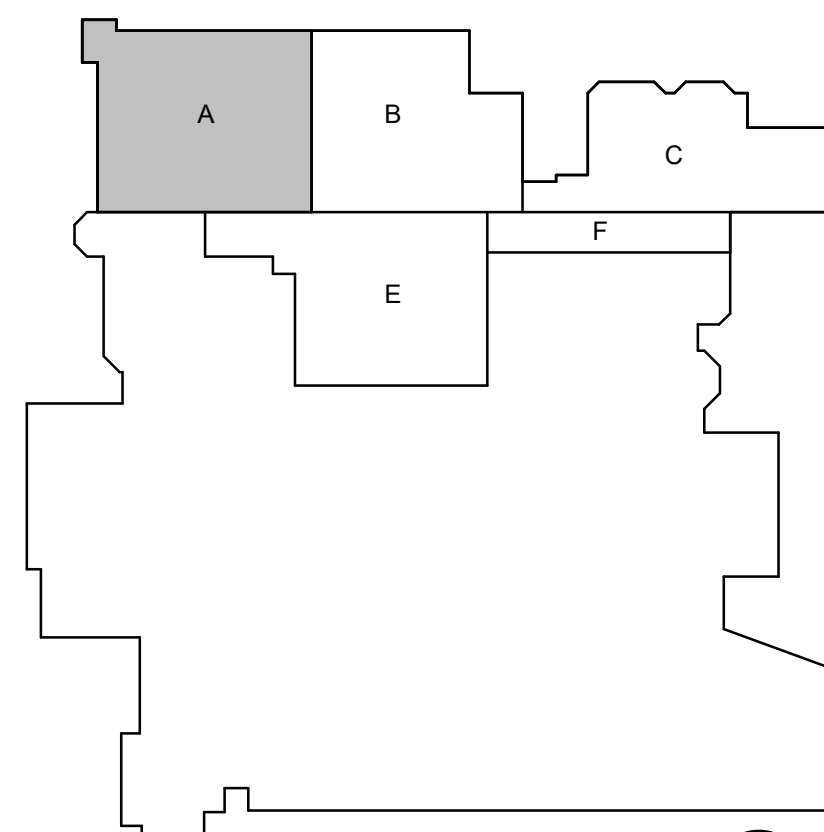
1. CAPTURE ARMS: 500 CFM (EACH) 4"

A. WELD FUME COLLECTION DUCTWORK MATERIALS:

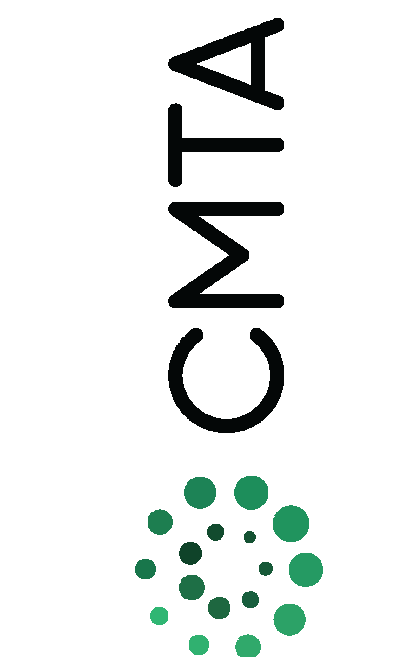
- a. MAIN TRUNKS
 - MATERIAL: 26-GAUGE MINIMUM GALVANIZED STEEL (G90 COATING PER ASTM A653) SPIRAL WOUND OR SNAP-LOCK ROUND DUCT FOR SIZES UP TO 12" DIAMETER.
 - SIZES 14" AND LARGER TO BE 24 GAUGE GALVANIZED STEEL MINIMUM.
 - ALL DUCTWORK SHALL BE ROUND AND SMOOTH WALL (STAINLESS STEEL IS ACCEPTABLE AT OWNERS DISCRETION).
 - FLOOR SWEEP-UP LOCATIONS ARE NOT TO BE CONSIDERED IN OVERALL SYSTEM CFM.
- b. BRANCH DUCTWORK
 - MATERIAL: 26-GAUGE GALVANIZED STEEL, ROUND SPIRAL OR SNAP LOCK CONSTRUCTION.
 - MINIMUM BRANCH DIAMETER 4"
 - BRANCH DUCT DIAMETER SIZES SHALL BE SIZED TO MAINTAIN A MINIMUM TRANSPORT VELOCITY OF 3,500 FPM AT DESIGN CFM FOR EACH BRANCH.
- c. FITTINGS:
 - ALL ELBOWS, TEES, WYES, REDUCERS AND TRANSITIONS TO BE FABRICATED FROM THE SAME GAUGE AND MATERIAL AS THE ADJOINING DUCTWORK.
 - ELBOWS MINIMUM 1.5D CENTERLINE RADIUS (LONG RADIUS).
 - BRANCH ENTRIES: 45 DEGREE WYE FITTINGS ONLY.
 - REDUCERS: CONCENTRIC CONICAL REDUCERS, MAXIMUM INCLUDED ANGLE OF 30 DEGREES.

- b. ALL DUCTWORK IS TO BE GROUNDED.
- c. SEAL ALL LONGITUDINAL SEAMS AND TRANSVERSE JOINTS WITH UL 181B-M LISTED MASTIC OR PRESSURE SENSITIVE TAPE RATED FOR NEGATIVE PRESSURE SYSTEMS. TAPE ALONE IS NOT ACCEPTABLE.
- d. MECHANICAL WATER TIGHT GASKET SEALS ARE ACCEPTABLE AND TO BE THE SAME MATERIAL AS THE ADJOINING DUCTS.
- e. WELD FILTER UNIT
 - PROVIDE ONE SPARE SET OF FILTERS (BAGS AND CARTRIDGES) TO THE OWNER AT CLOSEOUT.
- f. PROVIDE TEST AND BALANCE ON NEW WELD FUME FILTERS.
- g. MANUFACTURER OF WELD FUME FILTER TO PROVIDE ON SITE STARTUP AND TRAINING FOR USERS.

KEY PLAN



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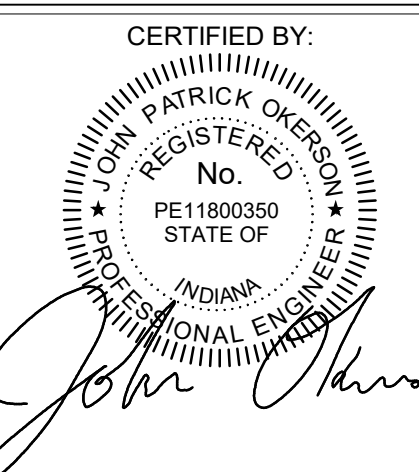
PROJECT:
CENTER GROVE COMMUNITY SCHOOL CORPORATION
CENTER GROVE HIGH SCHOOL
RENOVATION PROJECT - PACKAGE 2
2717 S MORGANTOWN RD
GREENWOOD, IN 46143

SCOPE DRAWINGS:
These drawings include the general scope of the project in terms of architectural design, structural, mechanical, electrical, plumbing, and fire protection. The design is based on the information provided by the client and is subject to change. The design is not intended to be a final design and is not intended to be used for construction without the approval of the architect.

REVISIONS:
2 ADDENDUM #3 09.02.2026

ISSUE DATE: 7/16/26
DRAWN BY: JPO
CHECKED BY: JPO

DRAWING TITLE:
LOWER LEVEL
MECHANICAL
PLANS - UNIT A



DRAWING NUMBER
M301A

PROJECT NUMBER
2025075

NOTES:

1. EXISTING EXHAUST FAN TO RUN CONTINUOUSLY.
2. VERIFY EXHAUST FAN IS A MIN OF 15' SEPARATED FROM ANY INTAKES
3. PROVIDE WITH FACTORY MOUNTED DISCONNECT. MC RESPONSIBLE FOR DISCONNECT OTHERWISE

HVAC DIFFUSER/GRILLE SCHEDULE							
QTY	MATERIAL	FINISH	MAX. NC	MAX THROW (FT)	DESIGN REFERENCE		NOTES
					MANUFACTURER	MODEL	
	STEEL	WHITE	30	-	PRICE	PDR	
	STEEL	WHITE	30	-	PRICE	PDR	
	STEEL	WHITE	30	-	PRICE	PDR	

NOTES:

1. UNDER ALTERNATE BID 1 PROVIDE SEPARATE PRICING FOR THE OWNER FOR EACH OF THE FOLLOWING MANUFACTURERS:

A. ALTERNATE 1A: TRANE EXV

B. ALTERNATE 1B: WATER FURNACE VERSATEC

C. ALTERNATE 1C: CLIMATE MASTER TRANQUILITY SE

2. PROVIDE WITH INTEGRAL FACTORY MOUNTED DISCONNECT.

3. PROVIDE WITH COMPRESSOR ACOUSTIC BLANKET.

4. PROVIDE HEAT PUMP WITH CONDENSATE OVERFLOW SWITCH.

5. PROVIDE HEAT PUMPS WITH 12" STANDS UNLESS OTHERWISE INDICATED.

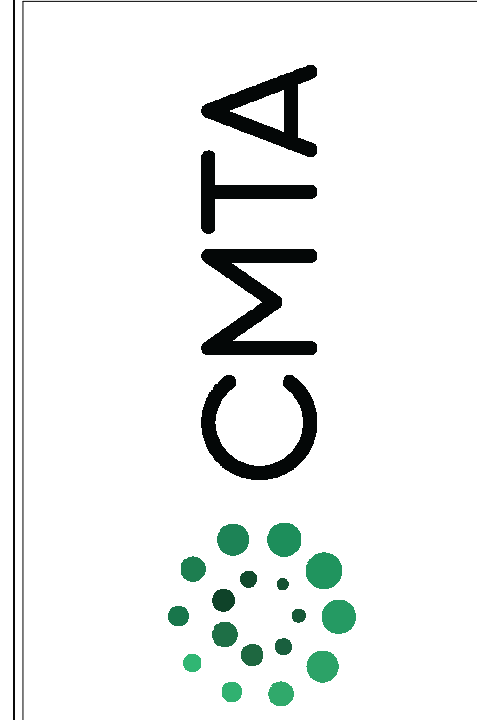
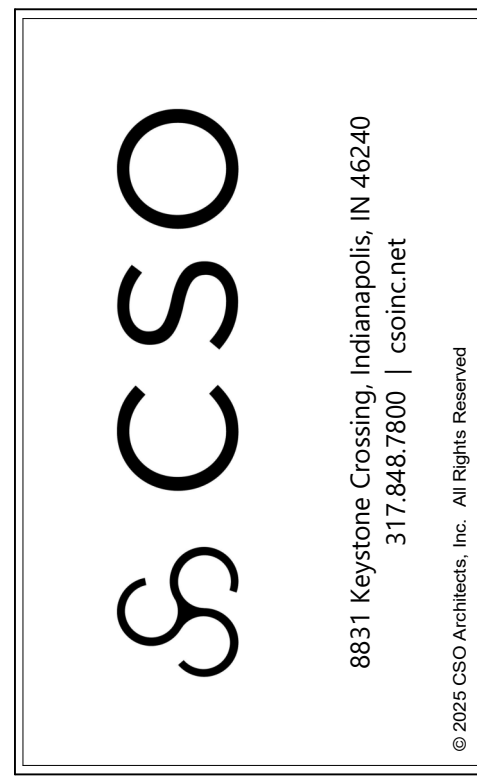
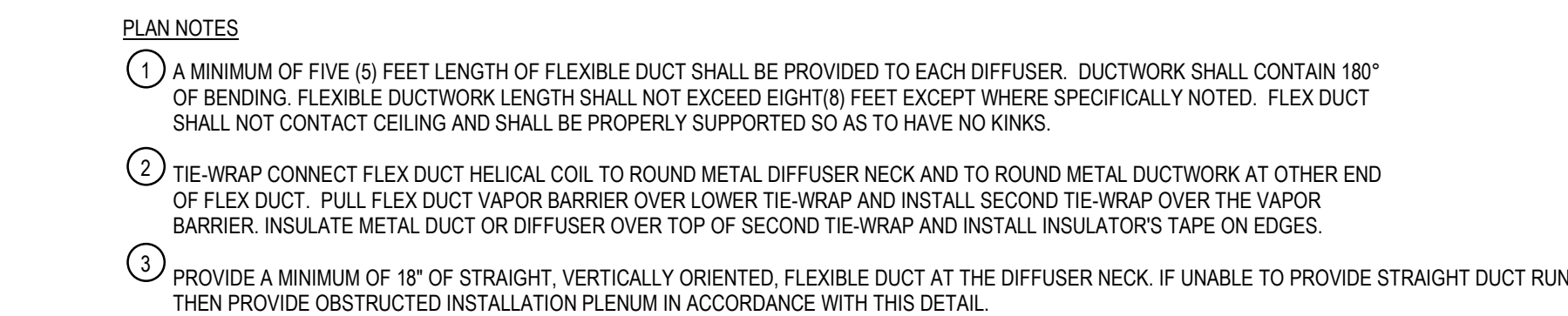
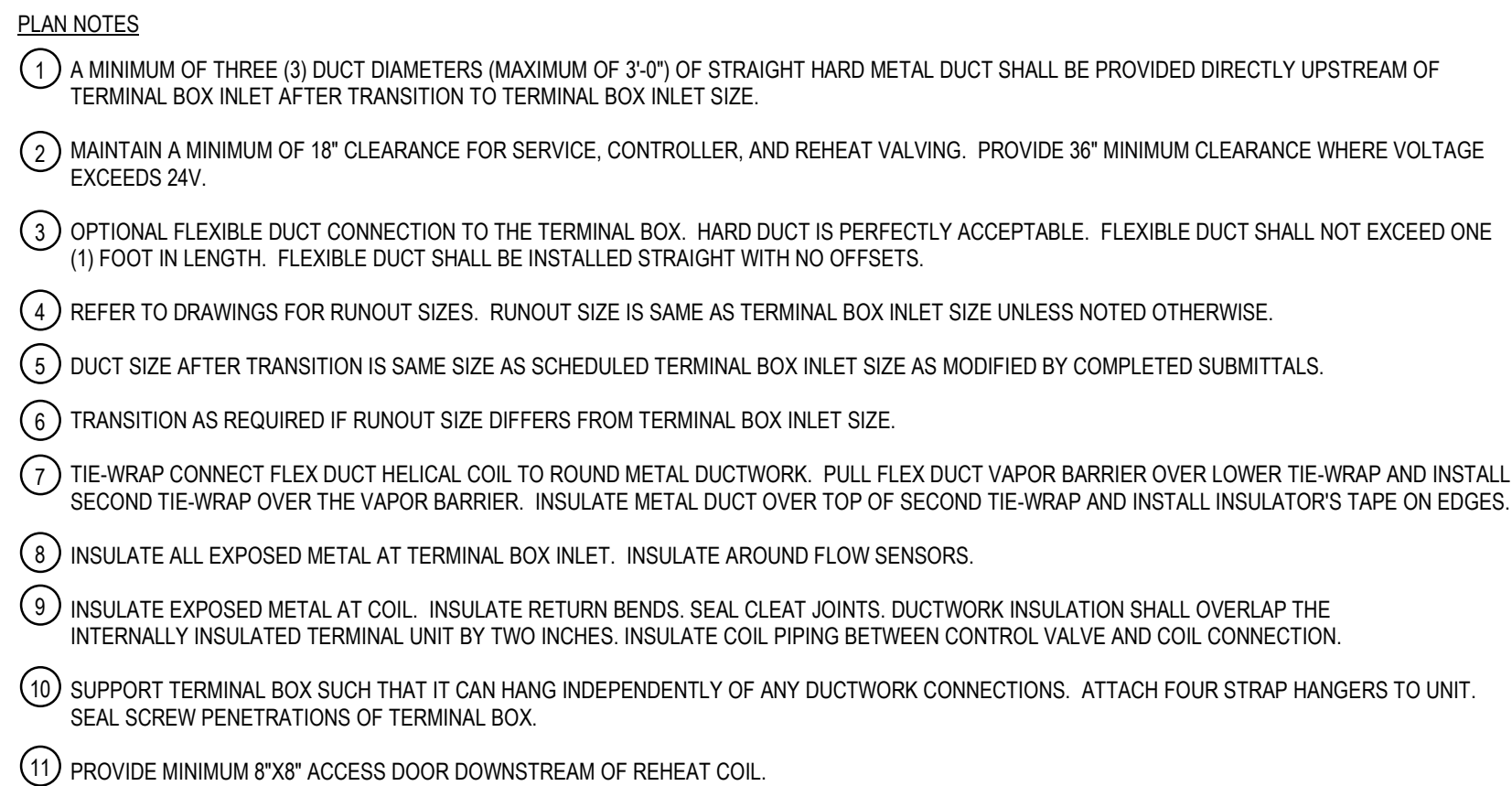
NOTES:

1. RGD LOCATED ABOVE DOUBLE GYP CEILING TO BE PROVIDED WITH ACCESS DOORS IN GYP CEILING FOR BALANCING. LOCATE ACCESS DOORS IN COORDINATION WITH ALL ITEMS REQUIRING MAINTENANCE.
2. COLOR LISTED ON SCHEDULE IS TO BE COORDINATED WITH ARCH. FINAL COLOR IS TO BE SELECTED BY ARCH.
3. COORDINATE ANY REQUIRED BORDER WITH CEILING TYPE AND INSTALLATION.
4. PROVIDE MOLDED INSULATED BLANKET ON ALL SUPPLY RGD.

NOTES:

1. ALL BOXES SHALL BE SINGLE WALL WITH 1/2" FOIL FACED INSULATION
2. PROVIDE BOX WITH INDEPENDENT CONTROLLER. NO BOX SHALL BE OPERATED BY ANOTHER CONTROLLER LOCATED ON ANOTHER BOX.
3. PROVIDE WITH BOTTOM ACCESS PANEL.

1.	NOTES:	
	ACCEPTABLE MANUFACTURERS TO INCLUDE:	
	A. MICROAIR	
	B. DONALDSON	
	C. FINE TOG	
	D. GRIZZLY	
2.	WELD FUME COLLECTOR SHALL BE FILTERED TO 99.99% EFFICIENCY AND IT TO INCLUDE A SPARK ARRESTOR PER NPA REQUIREMENTS.	
3.	FUME COLLECTOR TO BE MOUNTED ON WALL/LOO IN SPACE RESTRICTIONS INDICATED ON PLANS.	
4.	PROVIDE FILTER CHANGE INDICATOR VIA MAGNATIC PRESSURE GAUGE, VISIBLE TO WELDING STATIONS.	
5.	1 FULL YEAR OF REPLACEMENT FILTERS TO THE OWNER.	
6.	SOURCE CAPTURE ARMS TO BE PROVIDED BY THE SAME MANUFACTURER AS THE WELD COLLECTOR / FILTER. SOURCE CAPTURE ARMS ARE TO BE EQUAL TO MICROAIR SCA 407 AND 405.	



PROJECT:
CENTER GROVE COMMUNITY SCHOOL CORPORATION
CENTER GROVE HIGH SCHOOL
RENOVATION PROJECT - PACKAGE 2
2717 S MORGANTOWN RD
GREENWOOD, IN, 46143

SCOPE DRAWINGS:

These drawings indicate the general scope of the project in terms of architectural design concept, the dimensions of the building, the major architectural elements and the type of structural, mechanical and electrical systems.

The drawings do not necessarily indicate or describe all work required for full performance and completion of the requirements of the Contract.

On the basis of the general scope indicated or described, the trade contractors shall furnish all items required for the proper execution and completion of the work.

REVISIONS:

1	ADDENDUM #2	08.29.2026
2	ADDENDUM #3	09.02.2026

ISSUE DATE	DRAWN BY	CHECKED BY
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DRAWING TITLE:
**MECHANICAL
SCHEDULES
AND DETAILS**

CERTIFIED BY:



JOHN PATRICK OKERSON
REGISTERED
No. PE11800350
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWING NUMBER
M500

PROJECT NUMBER
2025075

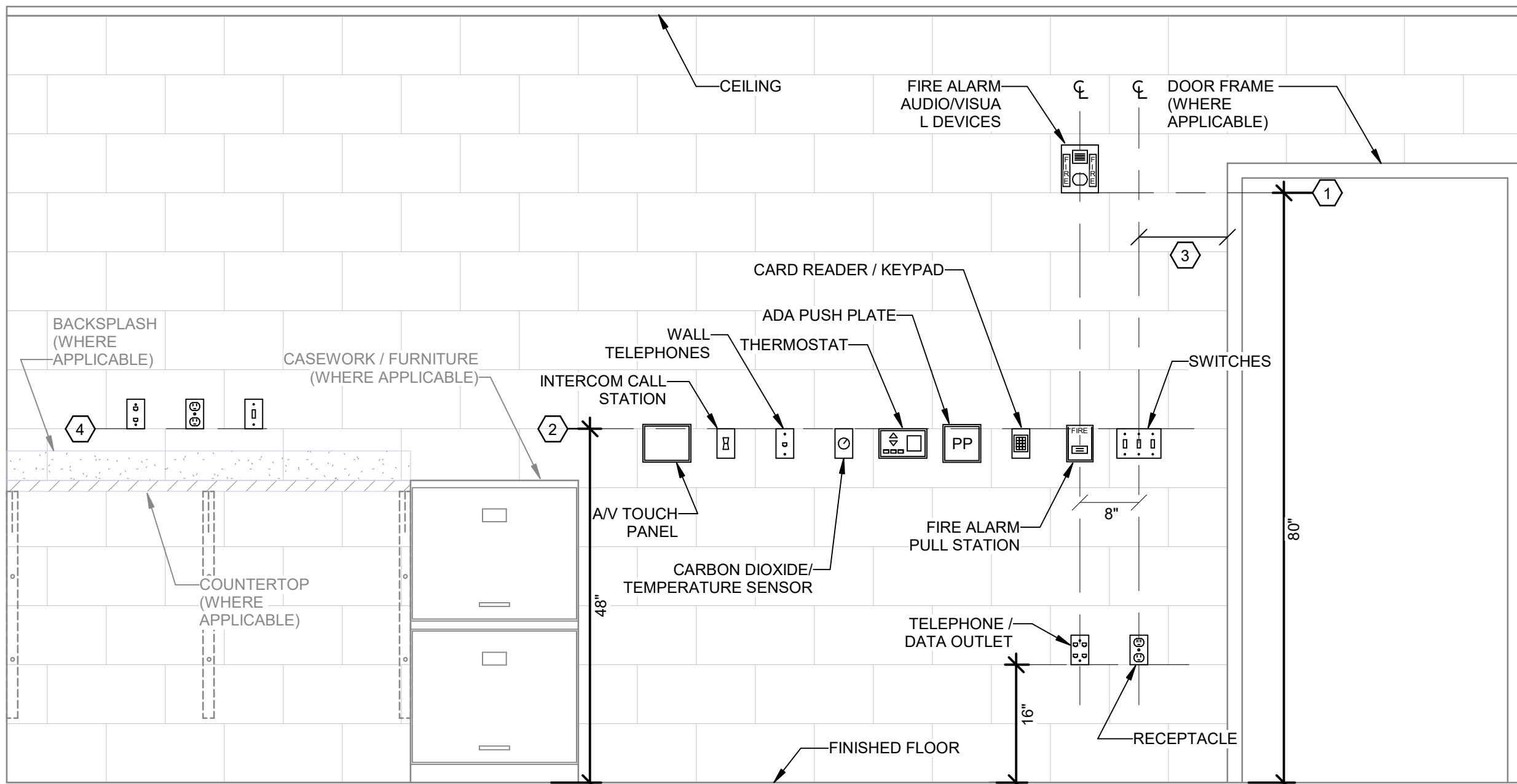
DESCRIPTION	MOUNTING HEIGHT	SYMBOL
FIRE ALARM		
MAIN CONTROL PANEL CENTRAL PROCESSING UNIT (CPU)	6'-6" TO TOP	FA2P
REMOTE L.C.D. FIRE ALARM ANNUNCIATOR	5'-4"	FA1
EXAM LIGHT SWITCH		FA3M
REMOTE FIRE ALARM ANNUNCIATOR W/ MICROPHONE	5'-4"	
LOCAL OPERATOR CONSOLE	5'-4"	LOC
SMOKE EVACUATION CONTROL PANEL	5'-4"	SECP
POWER SUPPLY CONTROL FOR AUDIOVISUAL DEVICES	4'-6"	NVA
TRANSPONDER CABINET	4'-6"	TRCN
GRAPHICS DISPLAY TERMINAL		EDT
FIRE ALARM CONTROL EXTENDER		EXT
POST INDICATOR VALVE		PVI
PULL STATION - DOUBLE ACTION	4'-6" TO LEVER	F
KEYED, LOCKED PULL STATION - DOUBLE ACTION, STATION SHALL ONLY BE OPERABLE VIA KEY IN POSSESSION OF STAFF.	4'-6" TO LEVER	F ^K
AUDIOVISUAL NOTIFICATION APPLIANCE	WALL, CLG	AV
AUDIO-ONLY NOTIFICATION APPLIANCE	WALL, CLG	A
VISUAL-ONLY NOTIFICATION APPLIANCE	WALL, CLG	V
BELL / LIGHT	8'-0"	BL
BELL ONLY	8'-0"	B
PHOTO-ELECTRIC SMOKE DETECTOR	CLG	SD
PHOTO-ELECTRIC SMOKE DETECTOR FOR PATIENT ROOM MONITORING (SEE RISER)	CLG	SD ^P
PROJECTED BEAM SMOKE DETECTOR, EMITTER (BE) AND RECEIVER (BR)		BS BS ^R
HEAT DETECTOR	CLG	HD
CARBON MONOXIDE DUCT DETECTOR	ABOVE CEILING	CD
CARBON MONOXIDE ALARM, SINGLE STATION WISOUNDER BASE	CLG	CM
CARBON MONOXIDE AUDIOVISUAL NOTIFICATION APPLIANCE	WALL	CM ^{AV}
DOOR HOLDER - WALL TYPE	WALL	DH
DOOR HOLDER - CLOSURE TYPE	ABV DOOR	DH ^C
DUCT SMOKE DETECTOR	ABV CLG	DD
CONNECTION TO SPRINKLER FLOW SWITCH WITH ADDRESSABLE MODULE		DS
CONNECTION TO SPRINKLER TAMPER SWITCH WITH ADDRESSABLE MODULE		TS
PRESSURE SWITCH		PS
ISOLATION MODULE	WALL	I
ZONE ADDRESSABLE MODULE		Z
H.V.A.C. SMOKE DAMPER CONNECTION		SD ^D
FLUSH MOUNTED REMOTE ALARM INDICATING STATION/TEST SWITCH	7'-6"	EL
FIREMAN'S PHONE JACK	4'-6"	FF
FIREMAN'S KNOX BOX CONNECTION		KB
ADDRESSABLE RELAY MODULE		R
INDICATES VANDAL-PROOF POLYCARBONATE COVER, VANDAL PROOF COVERS SHALL BE UL LISTED FOR USE WITH THE SPECIFIC DEVICE THEY ARE PROTECTING		VR
INDICATES CHIME AUDIBLE NOTIFICATION		CH
DEVICE USED FOR ELEVATOR CONTROL		EL

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
LIGHTING CONTROLS		
LIGHT SWITCH, LOW VOLTAGE (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	4'-6"	#
EXAM LIGHT SWITCH	4'-6"	X
NIGHT LIGHT SWITCH WITH CONSTANTLY ILLUMINATED HANDLE	4'-6"	N
SURGICAL LIGHT INTENSITY CONTROL	4'-6"	SL
LOW VOLTAGE DIMMER SWITCH (WHEN PRESENT, # INDICATES QUANTITY OF CHANNELS)	4'-6"	D [#]
GRAPHIC TOUCHSCREEN CONTROL STATION	4'-6"	G
LINE VOLTAGE SWITCH	4'-6"	LV
LINE VOLTAGE THREE-WAY, FOUR-WAY SWITCH	4'-6"	LV3 LV4
LINE VOLTAGE THREE-WAY, FOUR-WAY DIMMER SWITCH	4'-6"	LV3D LV4D
KEYED SWITCH	4'-6"	K
OCCUPANCY OR VAGANCY SENSOR SWITCH	4'-6"	OS VS
OCCUPANCY OR VAGANCY SENSOR SWITCH WITH DIMMING	4'-6"	OS ^D
LIGHT SWITCH FOR UNDER-CABINET LIGHTS	4'-6"	U
ILLUMINATED HANDLE LIGHT SWITCH (ILLUMINATED WHEN LOAD IS OFF)	4'-6"	IL
PILOT LIGHT SWITCH (ILLUMINATED WHEN LOAD IS ON)	4'-6"	PL
TIMER SWITCH	4'-6"	T
OCCUPANCY OR VAGANCY SENSOR, CEILING MOUNT	CLG	CS
OCCUPANCY SENSOR, CORNER MOUNT	CLG	CS ^C
DAYLIGHT SENSOR	AS NOTED	DS
PHOTOCELL	AS NOTED	LC
LIGHTING RELAY	AS NOTED	LR
EMERGENCY AUTOMATIC TRANSFER SWITCH FOR LIGHTING CONTROLS (REFER TO DETAIL)	CLG	ETN
POWER OUTLETS		
SIMPLEX RECEPTACLE (TEXT INDICATES NEMA TYPE)	1'-6"	1
DUPLEX RECEPTACLE	1'-6"	2
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPASH		2 ^{SL}
FILLED CENTER BAR INDICATES INTEGRAL GROUND FAULT PROTECTION (GFI)	1'-6"	2 ^G
DUPLEX RECEPTACLE WITH TWO INTEGRAL USB CHARGING PORTS	1'-6"	2 ^U
USB CHARGING OUTLET WITH FOUR INTEGRAL USB PORTS	1'-6"	2 ^{U4}
GANG RECEPTACLE IN COMBINATION WITH SWITCH (PROVIDE DIVIDER IF LIGHTING CIRCUIT IS 277V)	4'-6"	2 ^{CS}
DUPLEX RECEPTACLE, CEILING MOUNTED	CLG	2 ^C
QUADRIPLEX RECEPTACLE	1'-6"	4
QUADRIPLEX RECEPTACLE (USB C, (2) LS-15 (2) USB-C, REFER TO ARCHITECTURAL DRAWINGS FOR HEIGHT)		4 ^U
JUNCTION BOX, CEILING OR WALL		JB
VOLTAGE/2 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-6"	2 ¹
VOLTAGE/3 POLE RECEPTACLE, TEXT INDICATES NEMA TYPE	1'-6"	2 ³
"I" INDICATES SAFETY TYPE, TAMPER RESISTANT OUTLET(S)		2 ^I
SS INDICATES SURGE SUPPRESSION TYPE OUTLET(S)		2 ^{SS}
GROUND FAULT PROTECTED DUPLEX WITH WEATHER-PROOF "WHILE IN USE" TYPE DIE-CAST METAL COVER/PLATE WITH LOCKABLE ENCLOSURE AT OUTLET - SEE SPECIFICATIONS	2'-2"	2 ^{WP}
DUPLEX FOR ELECTRIC WATER COOLER, COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR TO CONCEAL OUTLET BEHIND COOLER, PROVIDE READILY ACCESSIBLE GFI DEVICE AT 18" ADJACENT TO WATER COOLER		2 ^{EWC}
CIRCLE ON ANY DEVICE INDICATES DEVICE FED FROM STUB UP CONDUIT		2 ^U
PANEL FURNITURE		
PANEL FURNITURE DUPLEX RECEPTACLE, PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNERS PANEL FURNITURE VENDOR		2 ^{PF}
PANEL FURNITURE DATA/VOICE OUTLET, PROVIDE ALL WIRING AS REQUIRED, COORDINATE EXACT INSTALLATION REQUIREMENTS AND LOCATIONS WITH OWNERS PANEL FURNITURE VENDOR		2 ^{PF}
POWER CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"	2 ^{PF}
COMBINATION POWER AND LOW VOLTAGE CONNECTION TO PANEL FURNITURE, PROVIDE SEAL-TIGHT CONDUIT CONNECTION FROM RECESSED WALL BOX TO PANEL FURNITURE, PROVIDE FINAL CONNECTIONS TO PANEL FURNITURE AS REQUIRED BY PANEL FURNITURE VENDOR	1'-6"	2 ^{PF}
LINE/TYPE LEGEND		
-----	EXISTING	
-----	DEMOLISHED	
=====	NEW	

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
LIGHTING FIXTURES AND EQUIPMENT		
REFER TO LUMINAIRE SCHEDULE FOR EXACT FIXTURE SPECIFICATIONS, MOUNTING HEIGHTS, ETC.		
SURFACE OR SUSPENDED CEILING FIXTURE		
RECESSED CEILING FIXTURE		
POLE MOUNTED AREA LIGHT WITH CONCRETE BASE		
LIGHTED BOLLARD WITH CONCRETE BASE		
EMERGENCY BATTERY WALL-PACK		
WALL MOUNT FIXTURE		
TRACK COMPLETE WITH POWER SUPPLIES AND FIXTURE HEADS		
FLOODLIGHT		
EXIT LIGHT (CEILING, END, WALL MOUNT) WITH OR WITHOUT DIRECTIONAL ARROWS, WITH OR WITHOUT EGRESS HEADS		
STRIP FIXTURE		
CROSS-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-CRITICAL BRANCH		
PARALLEL-HATCHING INDICATES LIGHT IS POWERED FROM THE EMERGENCY-LIFE SAFETY BRANCH		
REMOTE LIGHT FIXTURE DRIVER	AS NOTED	
REMOTE BATTERY BACKUP	AS NOTED	
CENTRAL BATTERY INVERTER	AS NOTED	
MISCELLANEOUS		
CONDUIT CONCEALED IN WALLS OR IN CEILING SPACE: ARROWS INDICATES HOME RUN & GFI CIRCUITS. HASHMARKS INDICATE # OF CONDUCTORS.		
NON-REVERSING MOTOR STARTER SNAP SWITCH	4'-6"	\$ M
MOMENTARY CONTACT SWITCH	4'-6"	\$ MC
HAND-OFF-AUTO 3-POSITION SWITCH	4'-6"	\$ HOA
DISCONNECT SWITCH	5'-0"	\$
MAGNETIC STARTER	5'-0"	\$
MAGNETIC COMBINATION STARTER	5'-0"	\$
VARIABLE FREQUENCY DRIVE	5'-0"	\$
ENCLOSED FLUSH MTD. CIRCUIT BREAKER	5'-0"	\$
DISCONNECTING MEANS TAG INFORMATION		
TRIP RATING APPRAXE FRAME APPRAXE RATING DISCONNECTING MEANS TYPE VOLTAGE RATING NUMBER OF POLES NEMA RATING		
TYPE: NON FUSED SAFETY SWITCH FIS: FUSED SAFETY SWITCH H: NON-REVERSING MOTOR STARTER SNAP SWITCH ECS: ENCLOSED CIRCUIT BREAKER		
NOTE: NOT ALL ELEMENTS ON TAG ARE PRESENT ON ALL TYPES OF DISCONNECTS		
MUSHROOM SWITCH	4'-6"	\$
PUSHBUTTON STATION WITH 1, 2, OR 3 BUTTONS	4'-6"	\$
PANEL BOARD, SURFACE OR FLUSH MOUNTED, HATCHING INDICATES EMERGENCY	6'-6" TO TOP	\$
TRANSFORMER	AS NOTED	\$
EQUIPMENT HARDWIRE CONNECTION (SEE DETAIL)		\$
KITCHEN EQUIPMENT OUTLET COUPLING CONNECTION (SEE DETAIL)		\$
MOTOR CONNECTION, REFER TO EQUIPMENT CONNECTION SCHEDULE		\$
PLUMBING FIXTURE SOLENOID VALVE/ELECTRIC EYE SENSOR CONNECTION, COORDINATE EXACT CONNECTION REQUIREMENTS WITH MANUFACTURER		\$
PLUMBING FIXTURE ELECTRIC EYE TRANSFORMER CONNECTION, TRANSFORMER SHALL BE 120V-24V, MOUNT ABOVE SUSPENDED ACCESSIBLE CEILING IN JBOX, PROVIDE ADDITIONAL TRANSFORMERS OF SAME TYPE AS/IF NEEDED		\$
PROVIDE CONNECTION TO HAND DRYER (SEE ARCHITECTURAL SPECIFICATIONS)		VERIFY WITH ARCHITECT
SURGE PROTECTION DEVICE (SURFACE OR FLUSH MOUNTED)		\$ SPD
GENERATOR ANNUNCIATOR PANEL (SURFACE OR FLUSH MOUNTED) - SEE SPECIFICATIONS	4'-6"	\$ GENA
CONDUIT UP		
CONDUIT DOWN		
FLEXIBLE CONDUIT		
GROUND BUS BAR ON INSULATED STANDOFFS	2'-0"	
BUS DUCT, AMPERAGES AS NOTED	AS SHOWN	
WIREWAY WITH REMOVABLE COVER (SIZE AS NOTED)	AS SHOWN	
TRENCH DUCT (SIZE AS NOTED)	AS SHOWN	
WIRE BASKET CABLE TRAY, SIZE AS NOTED	AS SHOWN	
LADDER CABLE TRAY, SIZE AS NOTED	AS SHOWN	
SOLID BOTTOM CABLE TRAY, SIZE AS NOTED	AS SHOWN	
J-HOOK PATHWAY		
EQUIPMENT TAG, REFER TO EQUIPMENT SCHEDULE		EQUIP-#
MECHANICAL EQUIPMENT DESIGNATOR (SEE MECH. SCHEDULES)		EQUIP-#
TAGGED NOTE		
REVISION TAG		

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
ABBREVIATIONS		
UNLESS OTHERWISE NOTED		
OWNER FURNISHED CONTRACTOR INSTALLED		UCN
OWNER FURNISHED OWNER INSTALLED		OFU
CONTRACTOR FURNISHED CONTRACTOR INSTALLED		CFU
CONTRACTOR FURNISHED OWNER INSTALLED		COU
INDICATES EMERGENCY POWER		EM
WIREGUARD - PROVIDE MANUFACTURER'S SPECIFIC GUARD FOR DEVICE NOTED		WG
WEATHERPROOF - NEMA-3R, WET LOCATION LISTED, PROVIDE COVERS, RATINGS, ETC. AS SUITABLE FOR OUTDOORS.		WP
EXPLOSION PROOF - PROVIDE WIRING METHODS, ENCLOSURES, RATINGS, ETC. AS SUITABLE FOR HAZARDOUS LOCATION.		XP
INDICATES FACEPLATE FOR DEVICE OR FIXTURE		FP
INDICATES RECEPTACLE IS INTENDED FOR NEARBY WATERFOUNTAIN		WF
SPECIAL OUTLETS		
FLOORBOX, AS SCHEDULED	FLOOR	TSB
POKE-THRU, AS SCHEDULED	FLOOR	PT
WALLBOX, AS SCHEDULED	WALL	WB
AUDIOVISUAL SYSTEM OUTLET WITH DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	AV
COMBINATION POWER AND DATA OUTLET LOCATION, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	2
COMBINATION POWER AND DATA OUTLET LOCATION, GFCI DUPLEX RECEPTACLE, REFER TO ASSOCIATED DETAIL FOR ADDITIONAL INFORMATION	1'-6"	2
OVERHEAD PROJECTOR, PROVIDE DUPLEX RECEPTACLE, ONE DATA, HDMI, 3.5MM AUDIO, AND VGA OUTLET ON (3) PLATES	CLG	
SPECIAL VIDEO SYSTEM SIGNAL INPUT		-NA-
SURFACE FLUSH-MOLD		
SURFACE WIRE-MOLD		
POWER POLE AS NOTED		PP
TELEVISION		
TELEVISION HEADEND (SPLITTERS/AMPLIFIERS/DISTRIBUTION)	4'-6"	TV
TELEVISION SYSTEM OUTLET WITH DUPLEX RECEPTACLE, COORDINATE LOCATION WITH WALL BRACKET WHERE APPLICABLE	7'-0"	2 ^T
OVERHEAD PAGING		
PAGING SPEAKER, CEILING	CLG	2 ^P
PAGING SPEAKER W/ VOLUME CONTROL	CLG	2 ^P
PAGING SPEAKER, WALL	8'-0"	2 ^P
RECESSED WALL MOUNTED PAGING SPEAKER DUKANE S406 SPEAKER, ATLAS 417-8WD	8'-0"	2 ^P
VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, QUAM VPI	SEE FLOOR PLANS	2 ^P
EXTERIOR VANDAL PROOF / WEATHERPROOF WALL MOUNTED PAGING SPEAKER, SHALL BE PAINTED COLOR SELECTED BY ARCHITECT/OWNER, QUAM VPI	SEE FLOOR PLANS	2 ^P
WALL MOUNTED PAGING HORN	9'-0"	2 ^P
CALL INITIATION STATION	4'-6"	2 ^P
WALL VOLUME CONTROL	4'-6"	2 ^P
PAGING MICROPHONE	1'-6"	2 ^P
PANIC BUTTON (MOUNTING PER DRAWINGS)	4'-6", UNDER DESK	2 ^P
NOTIFICATION LIGHT (MOUNTING PER DRAWINGS)	7'-6", CLG	2 ^P
LCD WALL DISPLAY		LCD
PAGING SYSTEM HEADEND	4'-6"	2 ^P

DESCRIPTION	MOUNTING HEIGHT	SYMBOL
SECURITY PANIC ALARM		
PANIC ALARM BUTTON	SEE DRAWINGS	
PANIC ALARM ANNUNCIATOR	4'-6"	
PANIC ALARM STROBE - REFER TO SPECIFICATIONS FOR LENS AND HOUSING COLOR	SAME AS FIRE ALARM	
PANIC ALARM POWER SUPPLY CABINET	5'-0"	SPS
SECURITY INTERCOM		
AUDIO/VIDEO INTERCOM STATION, MASTER WITH SELECTIVE DOOR CONTROLS, POWER SUPPLIES & DOOR RELAY CONTACTS AS REQUIRED FOR OPERATION OF ANY DOOR IN THE SYSTEM AND VIEWING OF ANY AUDIO/VIDEO INTERCOM REMOTE ON THE SYSTEM. APPROXIMATE ANY WIRELESS STAND - COLOR BY ARCHITECT.	DESK MOUNT	
AUDIO/VIDEO INTERCOM STATION, REMOTE WITH FLUSH-MTD S.S. ENCLOSURE, ALPHONE #X-DVF.	4'-6"	
DATA / VOICE		
DATA OUTLET - NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA JACKS, NO NUMBER INDICATES 1 JACK.	1'-6"	2 ^D
VOICE OUTLET - NUMBER BESIDE OUTLET INDICATES NUMBER OF VOICE JACKS, NO NUMBER INDICATES 1 JACK.	1'-6"	2 ^V
COMBINATION OUTLET - NUMBER BESIDE OUTLET INDICATES NUMBER OF DATA/VOICE JACKS	1'-6"	2 ^{DV}
SLASH THROUGH ANY DEVICE INDICATES MOUNTING ABOVE COUNTERTOP 4" ABOVE BACKSPASH		2 ^{SL}
OUTLET (VOICE ONLY) - PAYPHONE TYPE	AS REQ'D.	2 ^V
DATA RACK, TWO POST, REFER TO COMMUNICATIONS RISERS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
DATA RACK, FOUR POST, REFER TO COMMUNICATIONS RISERS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.		
TELECOMMUNICATIONS SYSTEM BACKBOARD, PROVIDE 96" x 34" D FIRE-RETARDANT PLYWOOD BACKBOARD WITH TWO (2) COATS OF NON-CONDUCTIVE, FIRE-RETARDANT LIGHT GRAY PAINT, 80% TO GROUND BAR AT MAIN SERVICE SWITCH-BOARD, 30"PT GROUND BAR AND A 4" x 8" AWG PIGTAIL AT BACKBOARD, INSTALL BOARD AT 2" AFF. (LENGTH OF BOARD AS INDICATED ON FLOOR PLAN)		
WIRELESS ACCESS POINT OUTLET WITH PROVISIONS FOR (2) DATA OUTLET FOR ANTENNA, PROVIDE A COMPLETE DATA OUTLET WITH FACEPLATE ABOVE CEILING, MOUNTED AT AN ACCESSIBLE HEIGHT, NO MORE THAN 24" ABOVE CEILING, AT EACH OUTLET, PROVIDE A 20' COIL OF CABLE HEAD OF THE OUTLET FOR ADJUSTMENT OF FINAL OUTLET LOCATION, THE CONTRACTOR SHALL COORDINATE EXACT LOCATIONS WITH THE OWNER AND ADJUST OUTLET LOCATIONS AT SUBSTANTIAL COMPLETION TO ACCOMMODATE OWNERS WAP LOCATIONS.	CEILING	2 ^{WAP}
CLOCKS		
TYPICAL CLOCK MOUNTING HEIGHTS FOR CEILING HEIGHTS < 9'-6": MOUNT CENTER OF BACKBOX AT 8" BELOW CEILING.		
FOR CEILING HEIGHTS > 9'-6": MOUNT CENTER OF BACKBOX AT 9'-0" AFF.		
ANALOG CLOCK, SINGLE FACE	SEE ABOVE	2 ^C
ANALOG CLOCK, DUAL FACE	SEE ABOVE	2 ^C
DIGITAL CLOCK, SINGLE FACE	SEE ABOVE	2 ^C
DIGITAL CLOCK, DUAL FACE	SEE ABOVE	2 ^C
CLOCK SYSTEM HEAD END	8'-4"	2 ^C
AV SYSTEMS		
PROJECTOR WITH MOUNT (CEILING OR WALL AS INDICATED)	REFER TO DRAWINGS	
LOCAL SOUND SPEAKER, CEILING	CLG	
WIRELESS MICROPHONE ANTENNA	CLG	
LOCAL SOUND SPEAKER, WALL	REFER TO SPECS.	
MICROPHONE INPUT - # INDICATES NUMBER OF INPUTS.	1'-6"	
WIRELESS MICROPHONE ANTENNA, WALL MOUNT	REFER TO SPECS.	
AV INPUT (OR OUTPUT) WALL PLATE, REFER TO DRAWINGS AND SPECIFICATIONS FOR TYPE AND QUANTITY OF CONNECTIONS	1'-6"	
BLUETOOTH INPUT MODULE	1'-6"	
AV TOUCHSCREEN CONTROL STATION	4'-6"	
LOCAL SOUND SYSTEM HEADEND	REFER TO SPECS.	



DEVICE MOUNTING DETAIL - GENERAL NOTES:

- WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).
- WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).
- FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

DEVICE MOUNTING DETAIL - KEY NOTES:

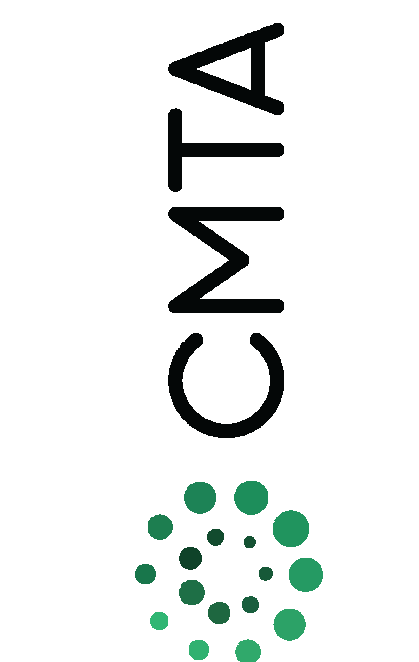
- MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
- ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.
- MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME, WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.
- THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.

1 TYPICAL WALL DEVICE MOUNTING DETAIL

NO SCALE



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PROJECT:
CENTER GROVE COMMUNITY SCHOOL CORPORATION
CENTER GROVE HIGH SCHOOL
RENOVATION PROJECT - PACKAGE 2
2717 S MORGANTOWN RD
GREENWOOD, IN 46143

SCOPE DRAWINGS:
These drawings include the general scope of the project in terms of architectural design, structural, mechanical, electrical, and plumbing systems. The drawings do not necessarily include all details and are subject to change. On the basis of the general scope indicated in these drawings, the trade contractors shall furnish all details required for the proper execution and completion of the work.

REVISIONS:
2 ADDENDUM #3 09.02.2026

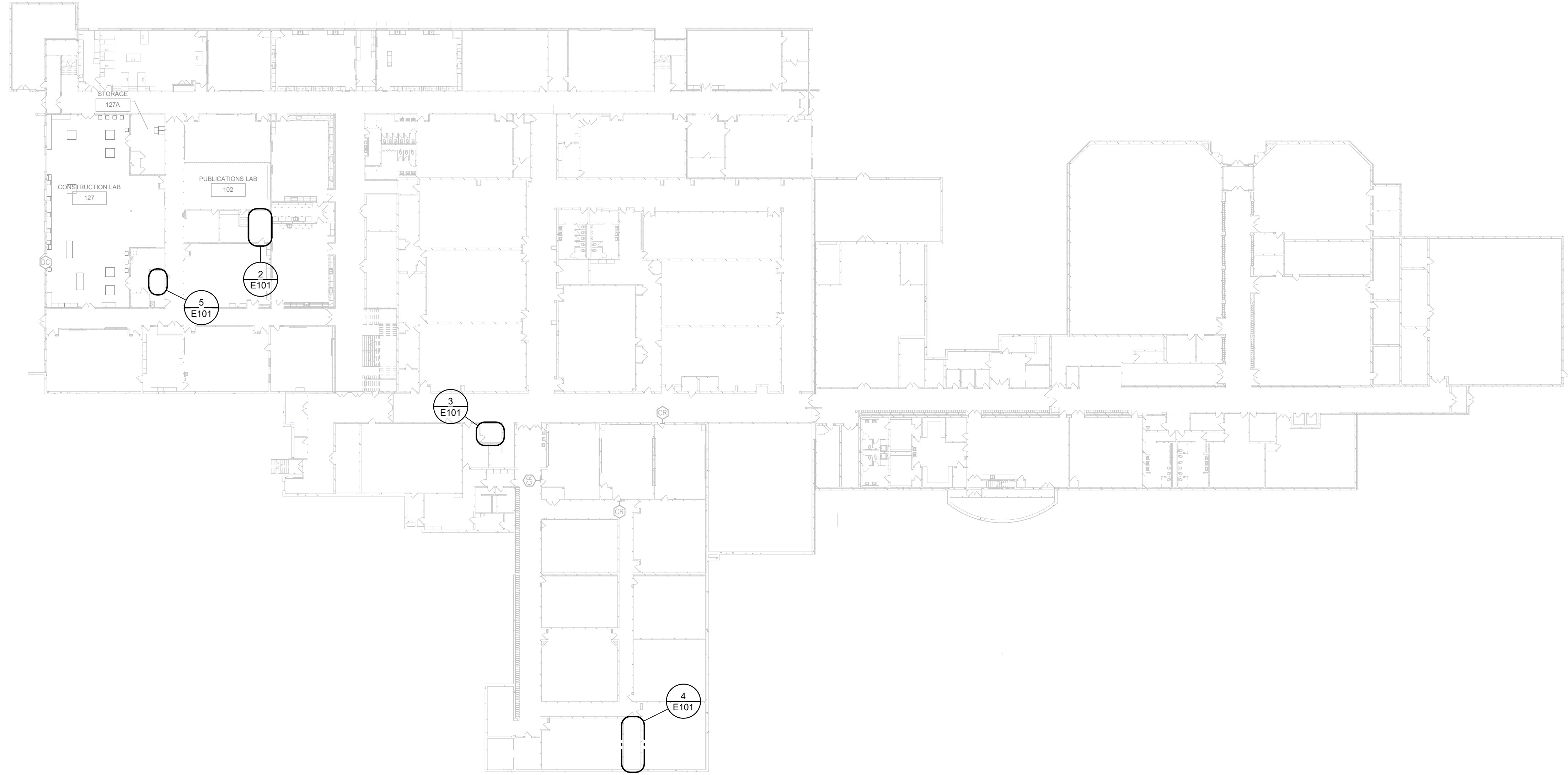
ISSUE DATE: 7/30/26 DRAWN BY: JA CHECKED BY: JBS

DRAWING TITLE:
**ELECTRICAL
LEGEND AND
DETAILS**

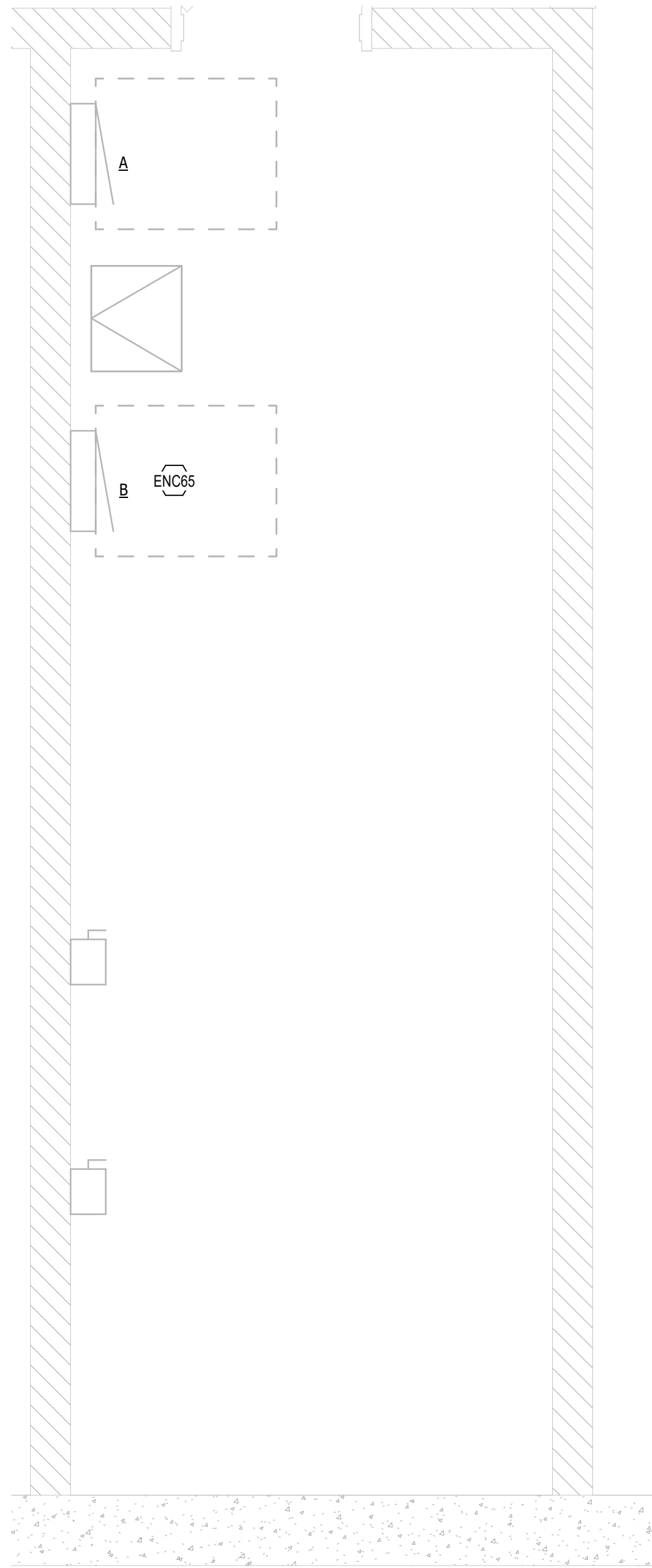
CERTIFIED BY:
JOEL A. BRU
REGISTERED
No. 12600295
STATE OF
INDIANA
PROFESSIONAL ENGINEER
09/04/2026

DRAWING NUMBER
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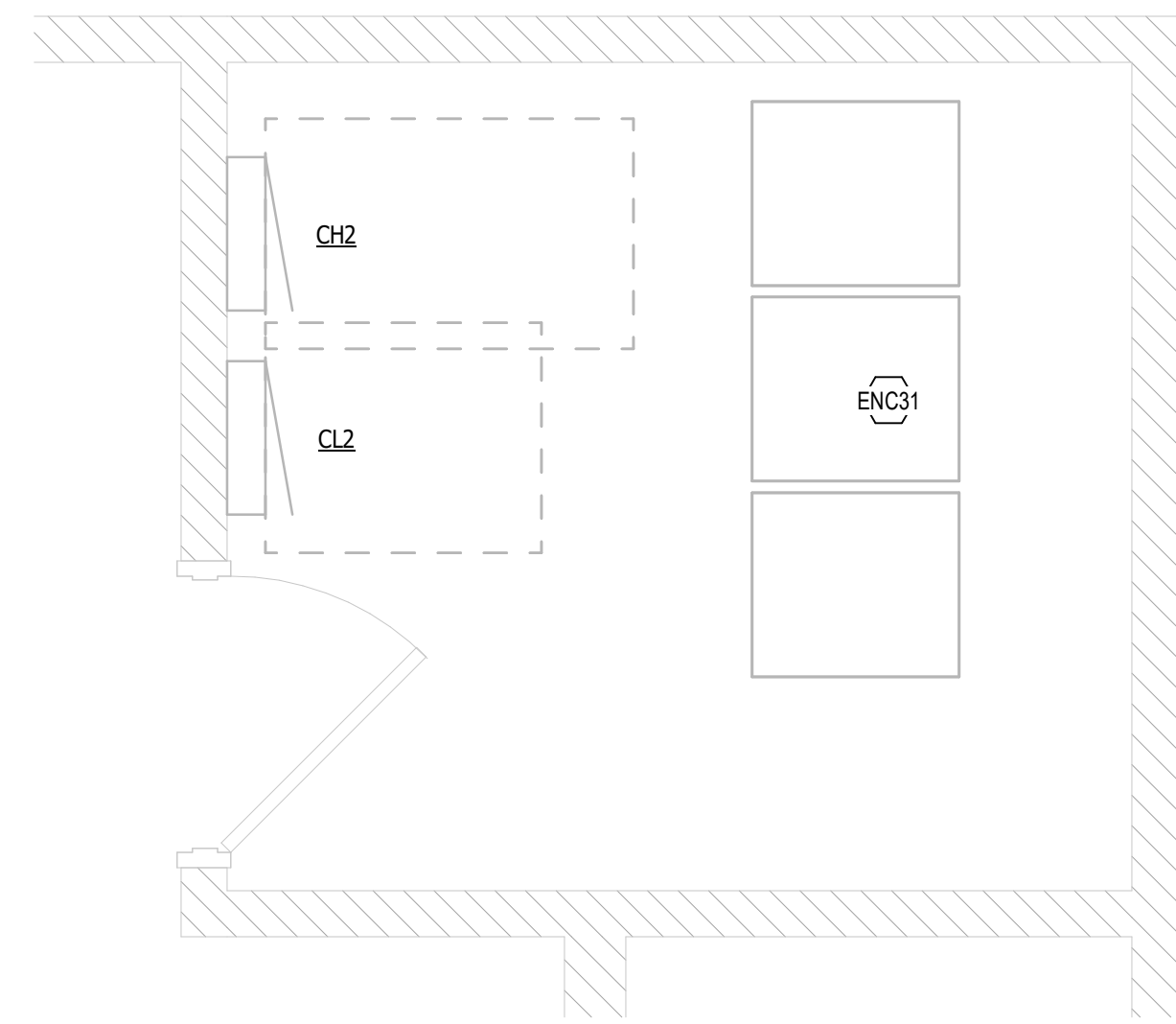
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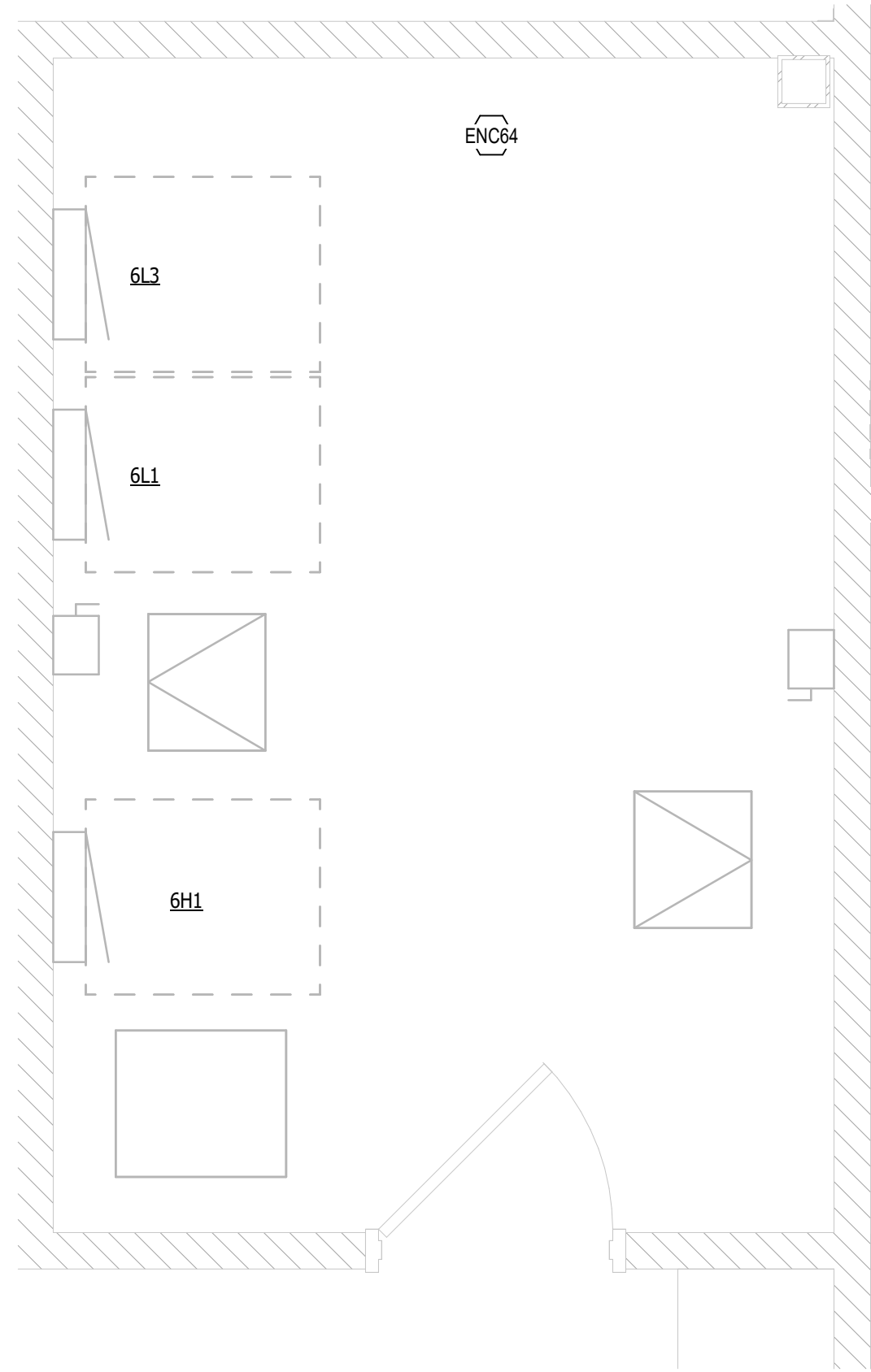
1 ELECTRICAL OVERALL PLAN - LOWER LEVEL
SCALE: 1/32" = 1'-0"



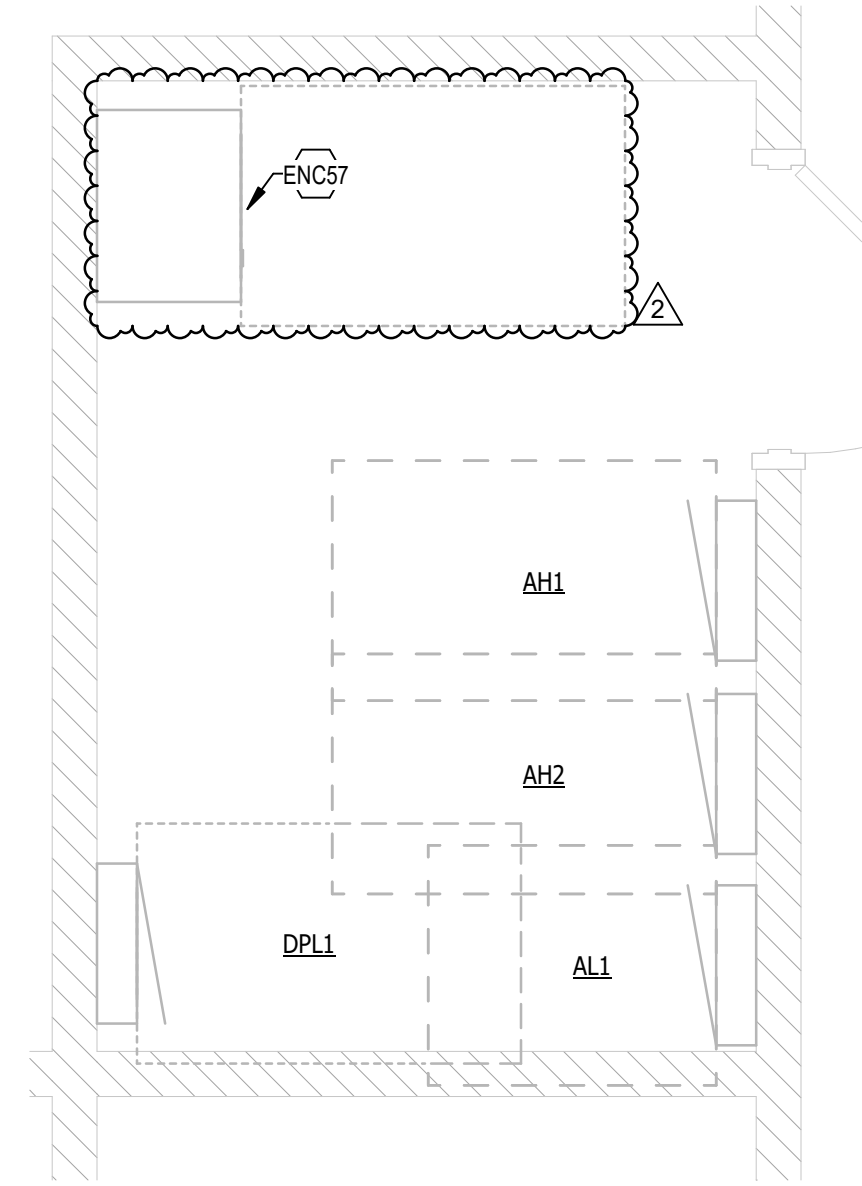
4 HVAC/CUSTODIAL /ELECTRICAL 170
SCALE: 1/2" = 1'-0"



3 ELECTRICAL STORAGE 163
SCALE: 1/2" = 1'-0"



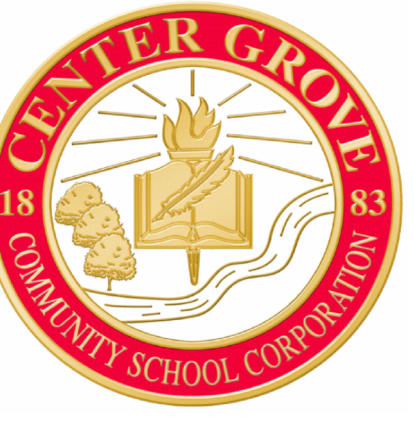
2 ELECTRICAL 102C
SCALE: 1/2" = 1'-0"



5 ELECTRICAL/MECHANICAL
SCALE: 1/2" = 1'-0"

TAGGED NOTES

- ENC31 EXISTING IT RACK TO BE UTILIZED FOR NEW TV STUDIO WALL MOUNTED RACK
- ENC57 PROVIDE (3) 100A FUSES IN EXISTING SPARE FUSIBLE SWITCH FOR NEW PANEL (NH) TO BE LOCATED FOR MANUFACTURING LAB IN STORAGE ROOM 102B. PROVIDE (3) #1, 1#8G IN 2" CONDUIT
- ENC64 RELOCATE PANEL AT EXISTING LOCATION TO NEW LOCATION AS NOTED ON E101A.
- ENC65 PROVIDE 100A/3P BREAKER IN PANEL B FOR NEW "PUB" PANEL LOCATED IN STORAGE 152D. PROVIDE 4#1, 1#8 GROUND IN 2" CONDUIT.



CSO

8831 Keystone Crossing, Indianapolis, IN 46240
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PROJECT:
CENTER GROVE COMMUNITY SCHOOL CORPORATION
CENTER GROVE HIGH SCHOOL
RENOVATION PROJECT - PACKAGE 2
2717 S MORGANTOWN RD
GREENWOOD, IN, 46143

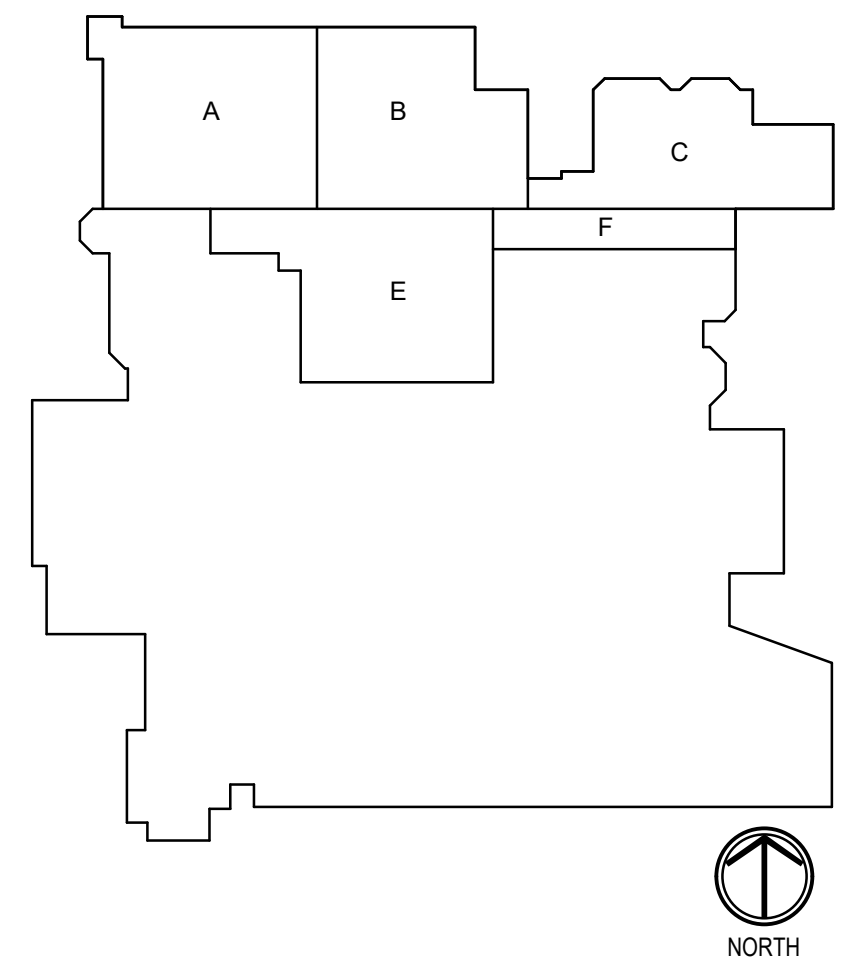
SCOPE DRAWINGS:
These drawings include the general scope of the project in terms of architectural design, interior design, and construction. The design is intended to provide a general overview of the project and is not intended to be used for construction. The design is not intended to be used for construction. The design is not intended to be used for construction.

REVISIONS	DATE	BY
1. ADDENDUM #2	08.29.2026	JBS
2. ADDENDUM #3	09.02.2026	JBS

ISSUE DATE	DRAWN BY	CHECKED BY
7/30/26	JA	JBS

DRAWING TITLE:
ELECTRICAL
OVERALL PLAN -
LOWER LEVEL

KEY PLAN

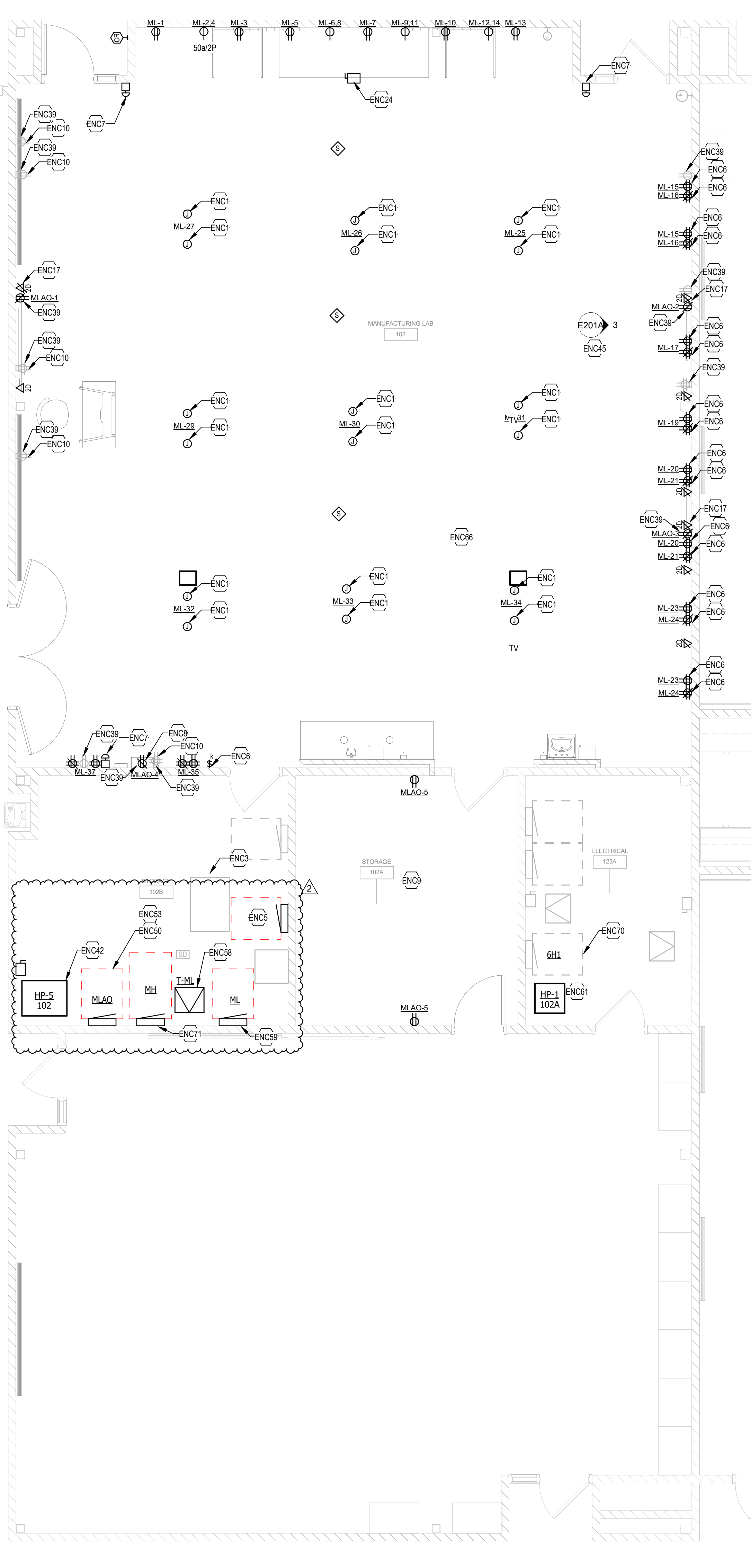
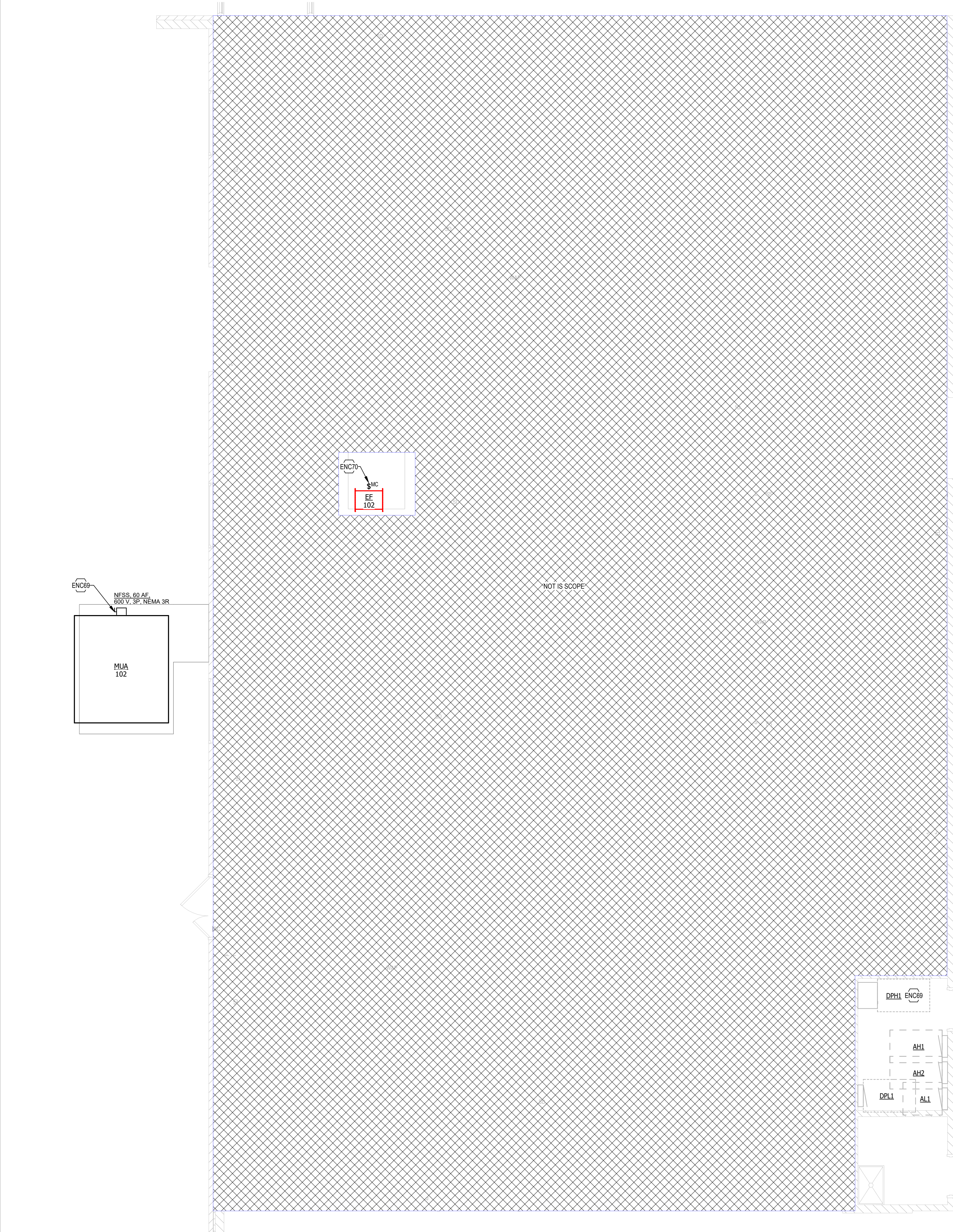


CERTIFIED BY:
JOEL ABRUZZO
REGISTERED
No. 12600295
STATE OF
INDIANA
PROFESSIONAL ENGINEER
09/04/2026

DRAWING NUMBER
E101

PROJECT NUMBER
2025075

1 POWER AND SYSTEM - MANUFACTURING LAB - NEW WORK



LIGHTING GENERAL NOTES

- A. REFER TO SHEET E001B FOR SYMBOLS, ABBREVIATIONS, AND MORE INFORMATION.
- B. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- C. FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRED BRANCH CIRCUITS AS DEFINED IN N.E.C. #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- D. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS.
- E. LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
- F. ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
- G. RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

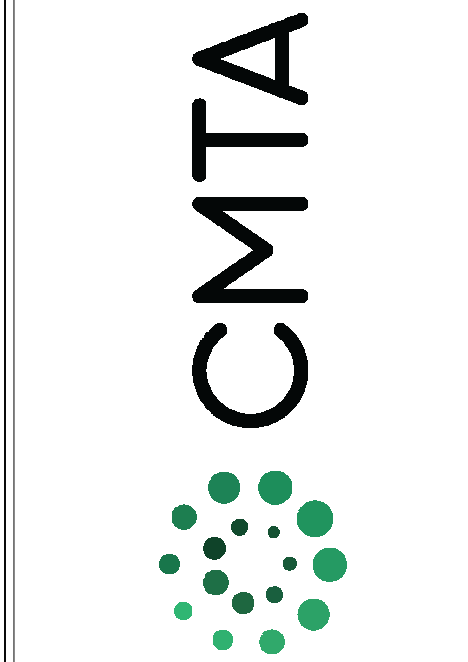
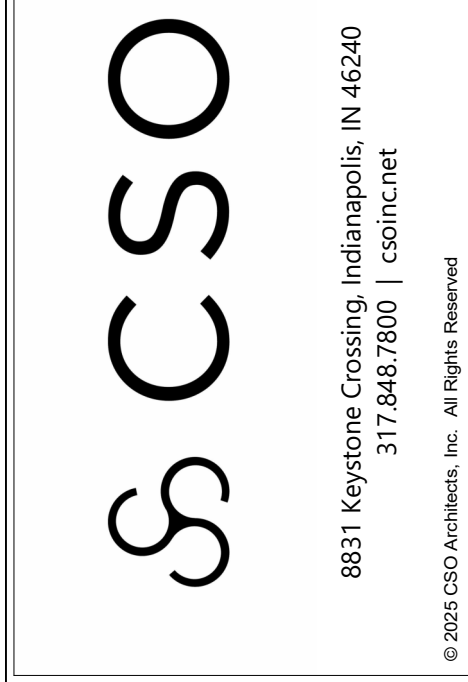
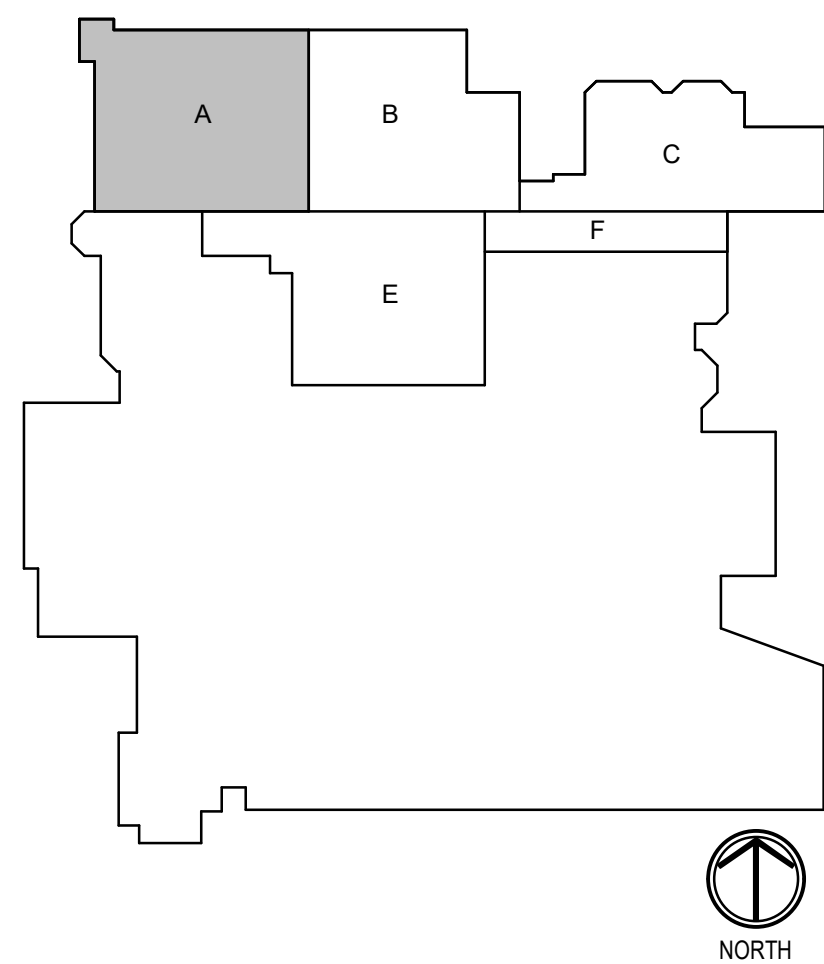
POWER - GENERAL NOTES

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRED BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- C. IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- D. LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- E. ALL FIRE ALARM DEVICES TO BE SIEMENS TO MATCH EXISTING. TIE INTO EXISTING SYSTEM AS REQUIRED.

TAGGED NOTES

- ENC1 PROVIDE RUBBER CORD REEL (HBL125123R220M1) IN CEILING.
- ENC3 UTILIZE EXISTING IT RACK FOR NEW CAT6 CABLES.
- ENC5 PROVIDE NEW RELAY PANEL FOR MANUFACTURING LAB. REFER TO ADJACENT CONSTRUCTION LAB AND MATCH EQUIPMENT/COMPONENTS.
- ENC6 PROVIDE KEYSWITCH TO ENERGIZE/DE-ENERGIZE OUTLETS IN ROOM. REFER TO ADJACENT CONSTRUCTION LAB AND MATCH EQUIPMENT/COMPONENTS.
- ENC7 PROVIDE EPO BUTTON FOR SHUTDOWN OF RECEPTACLES IN ROOM.
- ENC8 PROVIDE 120V OUTLET FOR GOGGLE CABINET.
- ENC9 CONNECT NEW RECEPTACLES TO PREVIOUS 120V CIRCUIT.
- ENC10 EXISTING RECEPTACLE TO REMAIN, PROVIDE NEW DEVICE AND FACEPLATE.
- ENC17 PROVIDE POWER AND DATA FOR TV. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
- ENC24 PROVIDE POWER FOR NEW WELDING EXHAUST.
- ENC39 PROVIDE LABEL "ALWAYS ON". PROVIDE NEW DEVICE TO MATCH NEW COLOR FOR DEVICES.
- ENC42 UTILIZE EXISTING CIRCUIT PREVIOUSLY SERVING DEMOLISHED HEATPUMP. EXTEND CONDUCTORS AND CONDUIT AS NEEDED FOR NEW LOCATION.
- ENC45 PROVIDE SURFACE MOUNT ALUMINIUM CHANNEL FOR NEW DEVICES ON WALL AND EXTEND CIRCUIT AS SEEN ON DRAWINGS.
- ENC50 RELOCATE PANEL FROM PREVIOUS ELECTRICAL ROOM 123A. INTERCEPT AND EXTEND FEEDER AS REQUIRED (ASSUME 100A FEEDER) INTERCEPT ALL EXISTING TO REMAIN RECEPTACLES NOTED BY ENC10 AND EXTEND TO NEW PANEL LOCATION.
- ENC53 PANEL "MLAO" IS NOT TIED TO THE EMERGENCY SHUT-OFF SWITCHES LOCATED IN THIS ROOM. THIS PANEL FEEDS EQUIPMENT/FIXTURES THAT ARE NOT INTENDED TO BE TURNED OFF BY THE EMERGENCY SHUT-OFF SWITCH. PROVIDE 45KVA 480 TO 208Y TRANSFORMER.
- ENC58 PROVIDE 3-1/0, #6G, 2.5" CONDUIT BETWEEN TRANSFORMER AND PANEL ML.
- ENC59 TEMPORARILY REMOVE AND RECONNECT FOR HVAC UNIT REPLACEMENT.
- ENC66 PROVIDE CAT6 CABLE FOR ALL NEW NETWORK DROP FROM NEAREST RACK AS DEFINED ON PLAN. COORDINATE WITH OWNER ON EXACT CABLE TYPE.
- ENC69 AS PART OF ALTERNATE, PROVIDE (3) 50A FUSES IN EXISTING 100A FUSIBLE DISCONNECT SWITCH (LABELED "ROOF CONDENSER") FOR USE AS NEW DISCONNECT SERVING MAU. SWITCH APPEARS TO BE IN THE OFF POSITION AND ASSUMED ABANDONED/AVAILABLE FOR REUSE. CONTRACTOR TO FIELD VERIFY SWITCH IS NOT IN ACTIVE USE PRIOR TO REUSE. IF SWITCH IS FOUND TO BE ENERGIZED OR IN SERVICE, DO NOT REUSE. INSTEAD CIRCUIT NEW MAU DISCONNECT TO PANEL 6H1. PROVIDED SUFFICIENT SPARE SPACES/CAPACITY EXIST. CONTACT ENGINEER IMMEDIATELY IF EXISTING SWITCH IS FOUND ENERGIZED OR IF PANEL 6H1 LACKS SUFFICIENT CAPACITY. PROVIDE (4) #6 AWG, (1) #8 AWG GROUND IN 1-1/4" CONDUIT BETWEEN PANEL AND DISCONNECT. MATCH CONDUCTOR/CONDUIT SIZE BETWEEN DISCONNECT AND MAU.
- ENC70 AS PART OF ALTERNATE, PROVIDE NEW 20A/3P BRANCH CIRCUIT FROM PANEL 6H1 TO SERVE NEW EXHAUST FAN. PROVIDE (3) #12 AWG, (1) #12 AWG GROUND IN 3/4" CONDUIT FROM PANEL TO FAN. CONTRACTOR TO FIELD VERIFY PANEL 6H1 HAS SUFFICIENT SPARE SPACES/CAPACITY (3-POLE) PRIOR TO ROUGH-IN AND WIRE PULLING.
- ENC71 PROVIDE NEW 480/277V, 3P, 100A PANEL. PANEL TO BE FED FROM PANEL LOCATED IN ELECTRICAL ROOM AS SEE ON SHEET E101 (TAG 1)

KEY PLAN



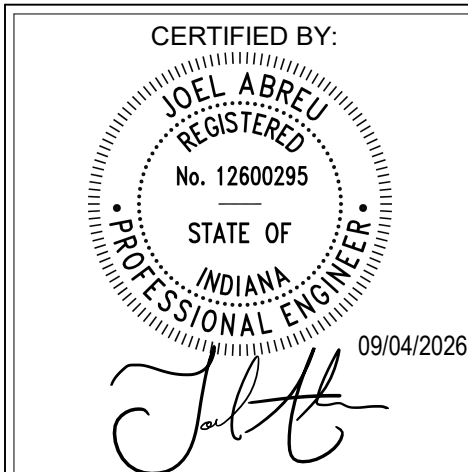
CENTER GROVE COMMUNITY SCHOOL CORPORATION
CENTER GROVE HIGH SCHOOL
RENOVATION PROJECT - PACKAGE 2
2717 S MORGANTOWN RD
GREENWOOD, IN. 46143

SCOPE DRAWINGS:
These drawings include the general scope of the project in terms of architectural design, structural, mechanical, electrical, and plumbing. The design professional assumes no responsibility for the design of any equipment or systems not shown on these drawings. The design professional assumes no responsibility for the design of any equipment or systems not shown on these drawings. The design professional assumes no responsibility for the design of any equipment or systems not shown on these drawings.

REVISIONS		
1	ADDENDUM #2	08.29.2026
2	ADDENDUM #3	09.02.2026

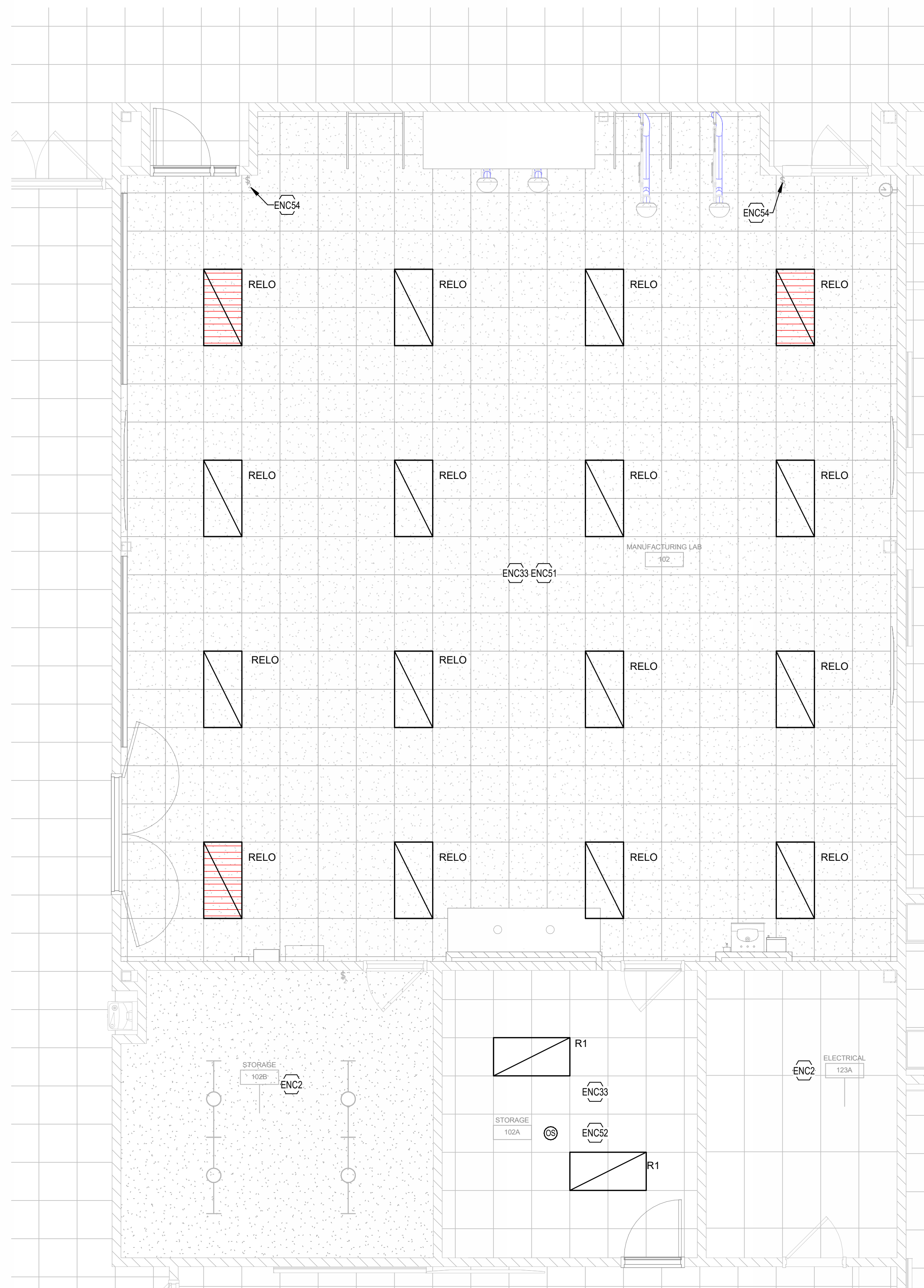
ISSUE DATE	DRAWN BY	CHECKED BY
7/30/26	JA	JBS

DRAWING TITLE:
LOWER LEVEL
ELECTRICAL
NEW WORK
PLANS - UNIT A -
ALTERNATE 2



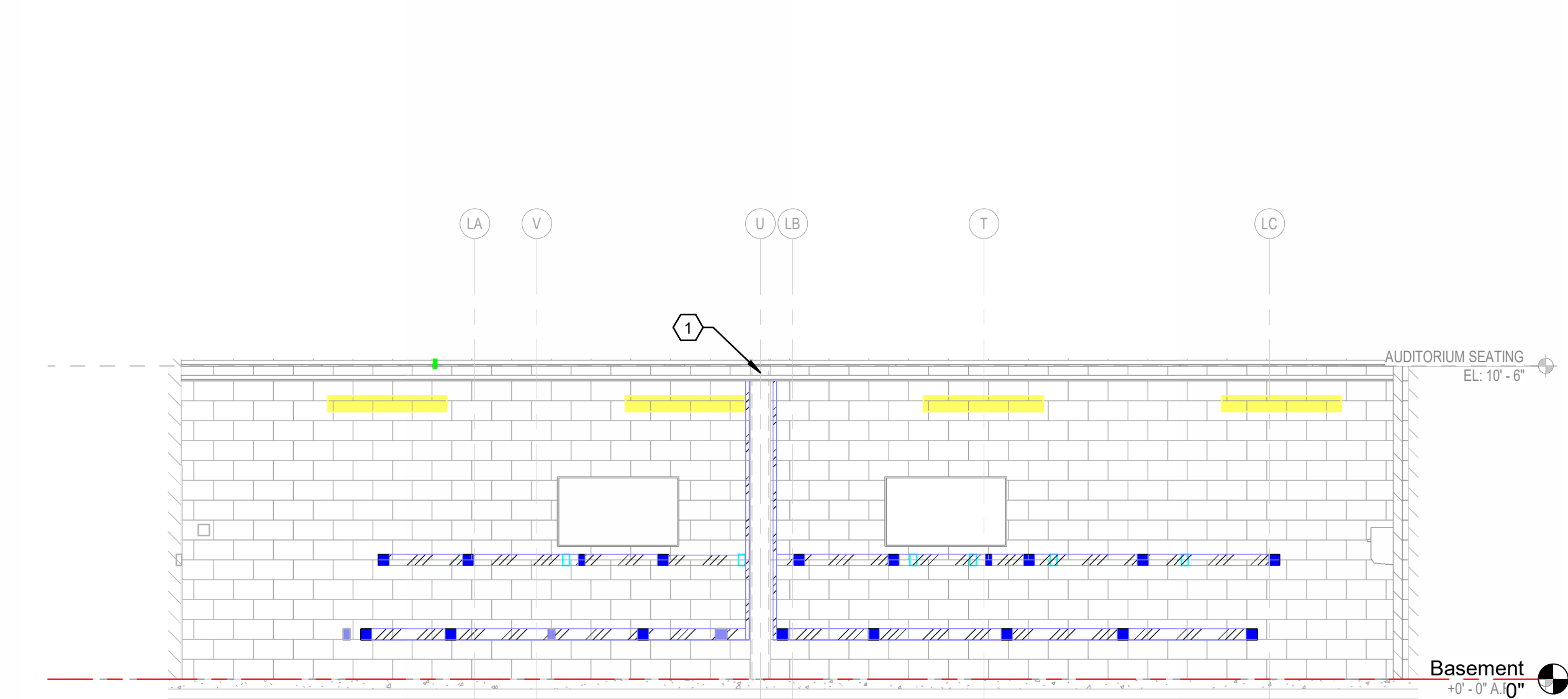
DRAWING NUMBER
E201A.2

PROJECT NUMBER
2025075



2 LIGHTING - MANUFACTURING LAB - NEW WORK

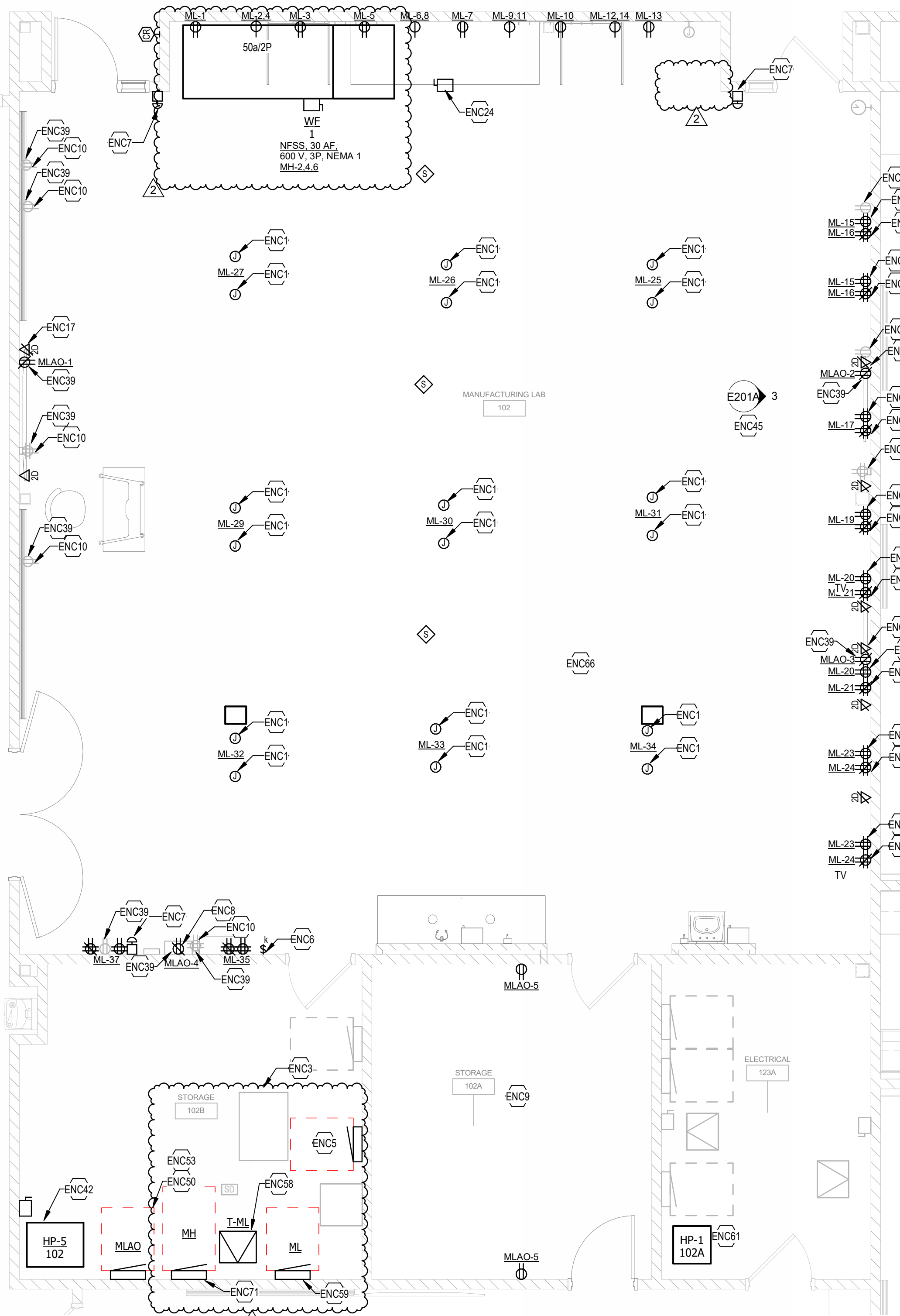
SCALE: 1/4" = 1'-0"



KEY NOTES: 1. PROVIDE 2 CHANNEL SURFACE MOUNT METAL RACEWAY FOR POWER AND DATA. PROVIDE CIRCUITS AS SEEN ON FLOOR PLAN.

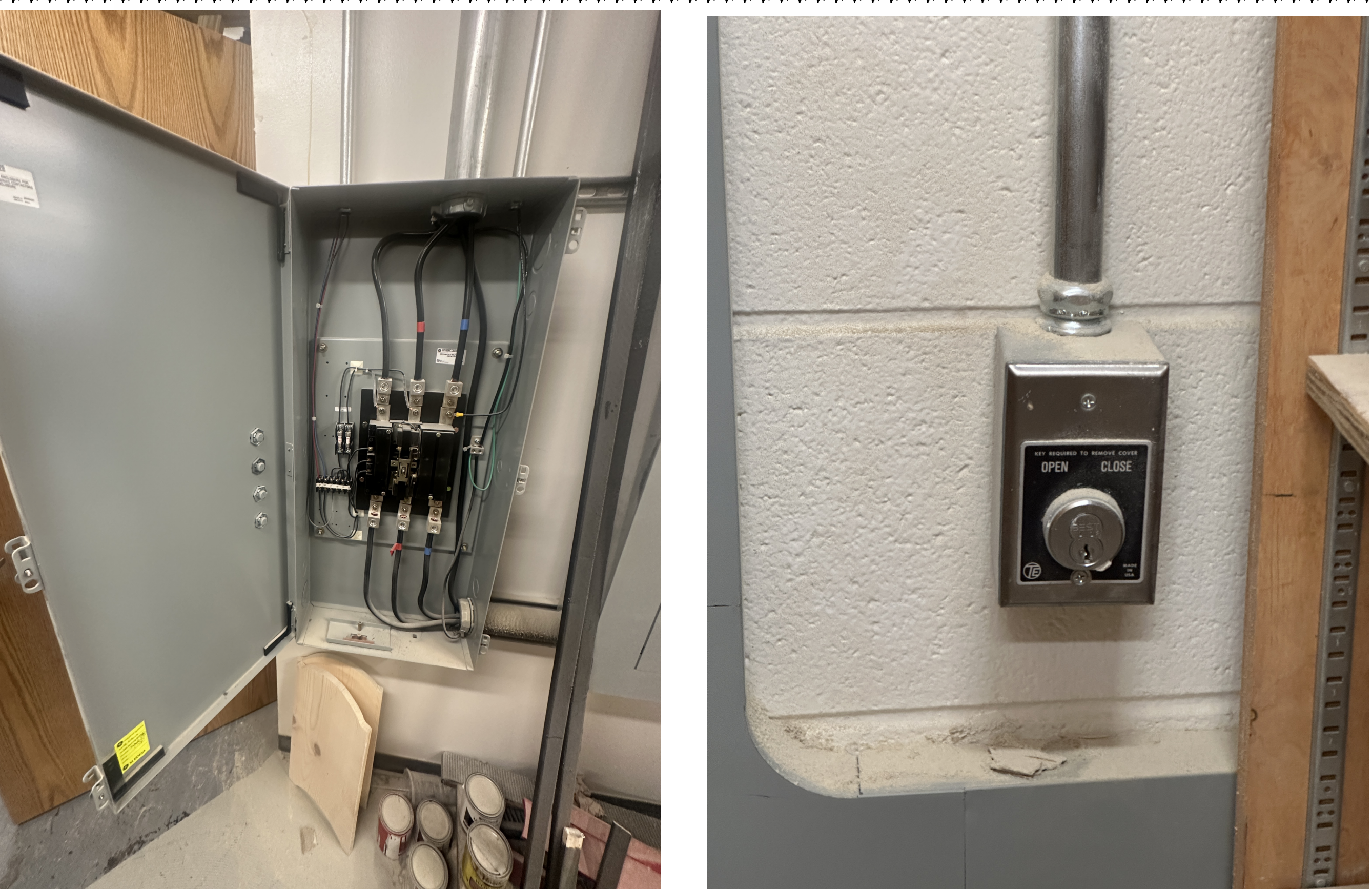
3 MANUFACTURING LAB EAST WALL

SCALE: 1/4" = 1'-0"



1 POWER AND SYSTEM - MANUFACTURING LAB - NEW WORK

SCALE: 1/4" = 1'-0"



4 CONSTRUCTION LAB 127 - EXISTING RELAY PANEL AND KEYED SWITCH

NO SCALE

LIGHTING GENERAL NOTES

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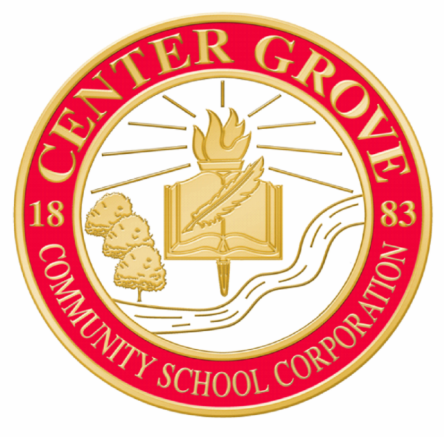
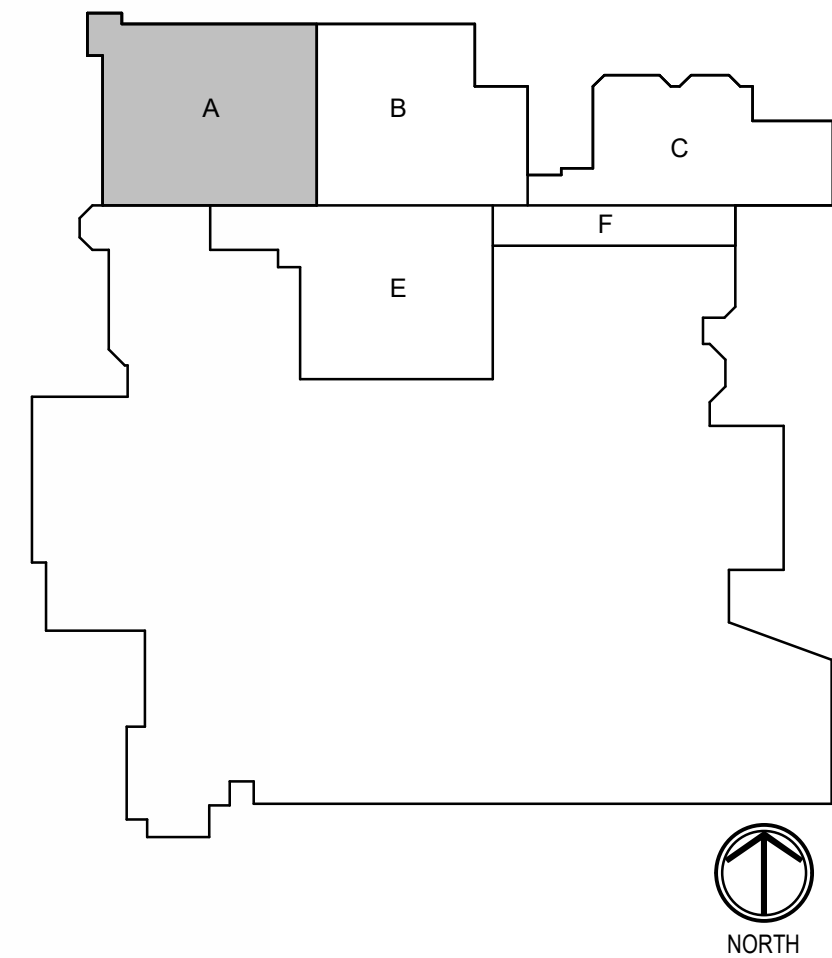
POWER - GENERAL NOTES

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- ALL FIRE ALARM DEVICES TO BE SIEMENS TO MATCH EXISTING. TIE INTO EXISTING SYSTEM AS REQUIRED.

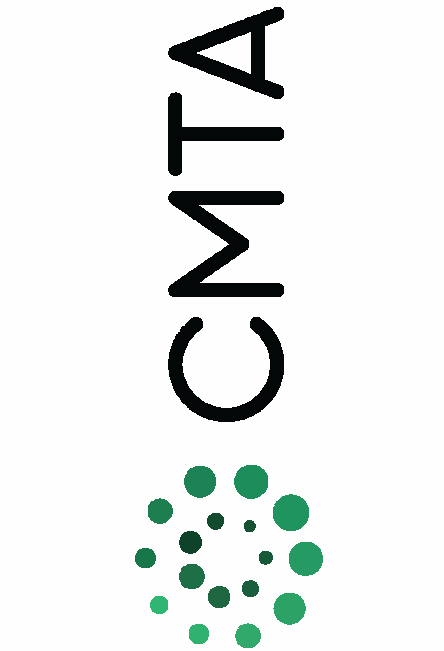
TAGGED NOTES

- ENC1 PROVIDE HUBBELL CORD REEL (HBL25123R220M1Y) IN CEILING.
- ENC2 EXISTING LIGHTING IN ROOM TO REMAIN.
- ENC3 UTILIZE EXISTING IT RACK FOR NEW CAT6 CABLES.
- ENC5 PROVIDE NEW RELAY PANEL FOR MANUFACTURING LAB. REFER TO ADJACENT CONSTRUCTION LAB AND MATCH EQUIPMENT/COMPONENTS.
- ENC6 PROVIDE KEYED SWITCH TO ENERGIZE/DE-ENERGIZE OUTLETS IN ROOM. REFER TO ADJACENT CONSTRUCTION LAB AND MATCH EQUIPMENT/COMPONENTS.
- ENC7 PROVIDE EPO BUTTON FOR SHUTDOWN OF RECEPTACLES IN ROOM.
- ENC8 PROVIDE 120V OUTLET FOR GOGGLE CABINET.
- ENC9 CONNECT NEW RECEPTACLES TO PREVIOUS 120V CIRCUIT.
- ENC10 EXISTING RECEPTACLE TO REMAIN, PROVIDE NEW DEVICE AND FACEPLATE.
- ENC17 PROVIDE POWER AND DATA FOR TV. COORDINATE EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.
- ENC24 PROVIDE POWER FOR NEW WELDING EXHAUST.
- ENC33 UTILIZE EXISTING LIGHTING CIRCUIT FOR ALL NEW LIGHT FIXTURES.
- ENC39 PROVIDE LABEL "ALWAYS ON". PROVIDE NEW DEVICE TO MATCH NEW COLOR FOR DEVICES.
- ENC42 UTILIZE EXISTING CIRCUIT PREVIOUSLY SERVING DEMOLISHED HEATPUMP. EXTEND CONDUCTORS AND CONDUIT AS NEEDED FOR NEW LOCATION.
- ENC45 PROVIDE SURFACE MOUNT ALUMINUM CHANNEL FOR NEW DEVICES ON WALL AND EXTEND CIRCUIT AS SEEN ON DRAWINGS.
- ENC50 RELOCATE PANEL FROM PREVIOUS ELECTRICAL ROOM 123A. INTERCEPT AND EXTEND FEEDER AS REQUIRED (ASSUME 100A FEEDER) INTERCEPT ALL EXISTING TO REMAIN RECEPTACLES NOTED BY ENC10 AND EXTEND TO NEW PANEL LOCATION.
- ENC51 MODIFY EXISTING EMERGENCY LIGHTING IN CONJUNCTION WITH EXISTING LIGHTING CONTROL PANEL AS REQUIRED FOR NEW EMERGENCY FIXTURE LAYOUT.
- ENC52 PROVIDE NEW MOTION SENSOR IN ROOM THAT MATCHES BUILDING STANDARD FOR CONTROL OF LIGHTS IN SPACE. SET FOR 15 MINUTES.
- ENC53 PANEL "MLAO" IS NOT TIED TO THE EMERGENCY SHUT-OFF SWITCHES LOCATED IN THIS ROOM. THIS PANEL FEEDS EQUIPMENT/FIXTURES THAT ARE NOT INTENDED TO BE TURNED OFF IN THE EVENT THE EMERGENCY SHUT-OFF SWITCH IS PUSHED.
- ENC54 REINSTALL LIGHT SWITCH AT PREVIOUS LOCATION.
- ENC58 PROVIDE 45KVA 480D TO 208Y TRANSFORMER.
- ENC59 PROVIDE 3-1/0, #6G, 2.5" CONDUIT BETWEEN TRANSFORMER AND PANEL "MLAO".
- ENC61 TEMPORARILY REMOVE AND RECONNECT FOR HVAC UNIT REPLACEMENT.
- ENC66 PROVIDE CAT6 CABLE FOR ALL NEW NETWORK DROP FROM NEAREST RACK AS DEFINED ON PLAN. COORDINATE WITH OWNER ON EXACT CABLE TYPE.
- ENC71 PROVIDE NEW 480/277V, 3P, 100A PANEL. PANEL TO BE FED FROM PANEL LOCATED IN ELECTRICAL ROOM AS SEEN ON SHEET E101 (TAG 101-ENC2).

KEY PLAN



CSO
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317.240.7800 | cscor.net
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CENTER GROVE COMMUNITY SCHOOL CORPORATION
CENTER GROVE HIGH SCHOOL
RENOVATION PROJECT - PACKAGE 2
2717 S MORGANTOWN RD
GREENWOOD, IN 46143

SCOPE DRAWINGS:
These drawings include the general scope of the project in terms of architectural design, structural, mechanical, electrical, and plumbing. The design and construction of the project shall be in accordance with the applicable codes and standards. The contractor shall be responsible for obtaining all necessary permits and for coordinating with all other trades and agencies involved in the project.

REVISIONS:
2 ADDENDUM #3 09.02.2026

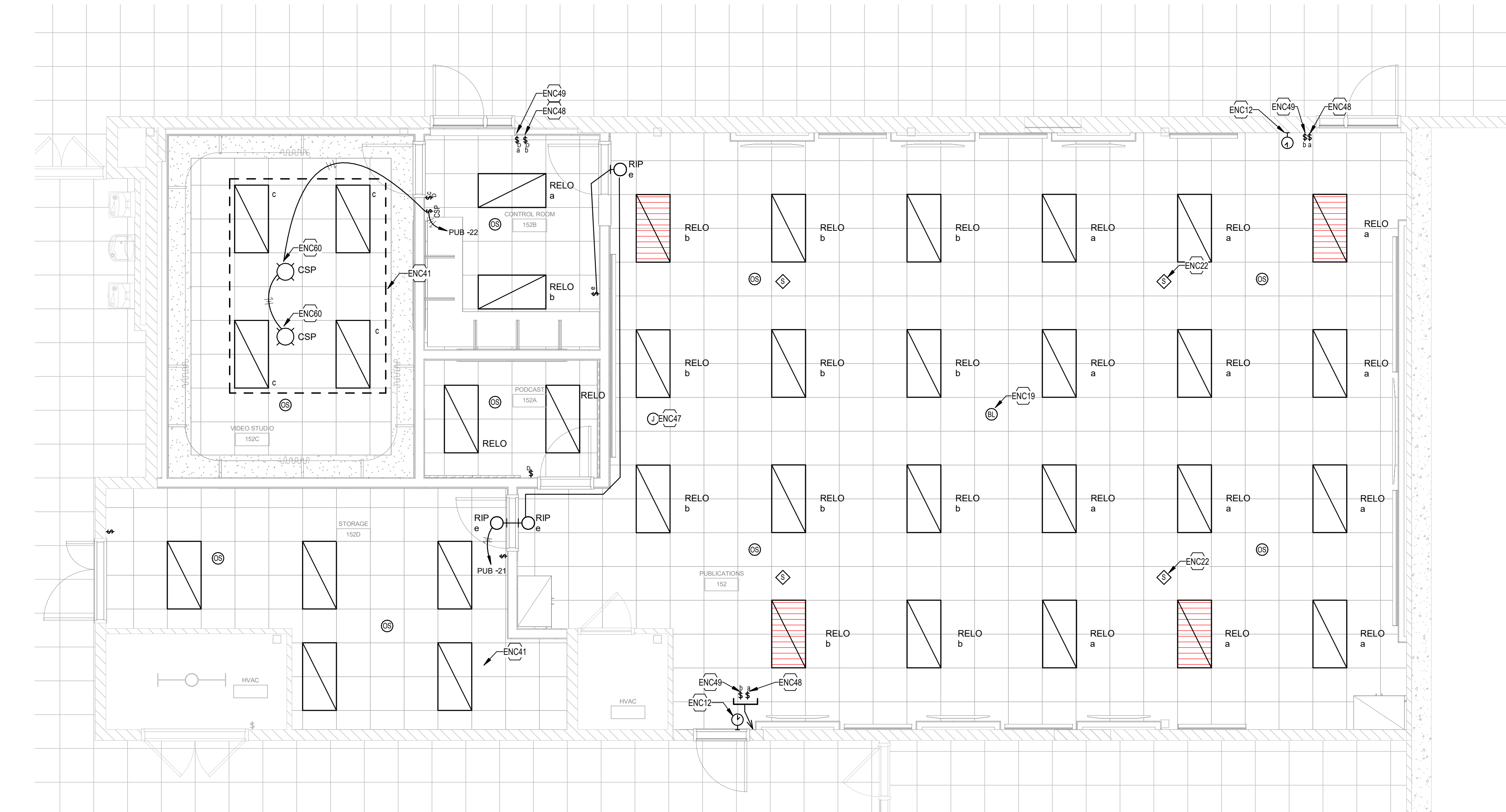
ISSUE DATE 7/30/26 DRAWN BY JA CHECKED BY JBS

DRAWING TITLE:
LOWER LEVEL
ELECTRICAL
NEW WORK
PLANS - UNIT A

CERTIFIED BY:
JOEL ABRUCCI
REGISTERED
No. 12600295
STATE OF
INDIANA
PROFESSIONAL ENGINEER
09/04/2026

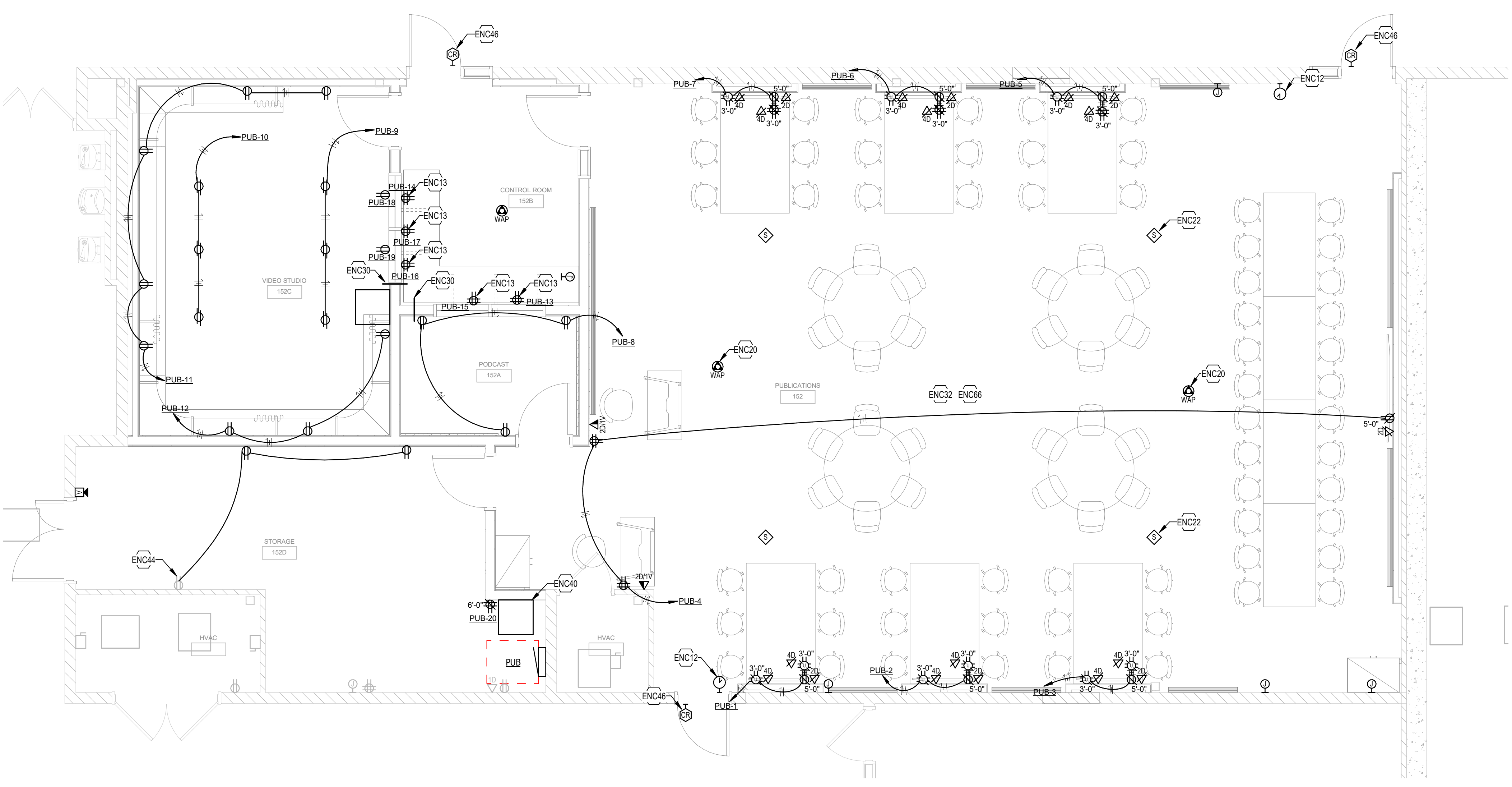
DRAWING NUMBER
E201A

PROJECT NUMBER
2025075



1 LIGHTING - TV STUDIO - NEW WORK

SCALE: 1/4" = 1'-0"



2 POWER AND SYSTEMS - TV STUDIO - NEW WORK

SCALE: 1/4" = 1'-0"

DESCRIPTION	MANUFACTURER	MODEL	QTY
Video-			
Video Production Board	Blackmagic Design	ATEM Television Studio Pro	1
SDI Thunderbolt Capture Card	Blackmagic Design	Ultra Studio HD Mini	1
SDI to HDMI	Blackmagic Design	CONVCMIC/SH03G/WPS	2
15" Video Monitor	FeelWorld	P150-3HSD	1
Video Recorder	Aja	KI-PRO-RACK	1
Mini Encoder	MediaCast	CDM-S0400	1
SDI Splitter	Comprehensive Pro		1
Video Production Software	Vimeo	Livestream Studio 6 License	1
Desktop Computer	Owner Furnished	TBD	1
4K Camcorder	JVC	GY-HM180U	2
Video Finder Monitor	JVC	DT-X73F	2
View Finder Bracket	JVC	SAK-LC07	2
Z/FI Control	Varizoom	VZ-ROCK-J600	2
Camera Tripod	Millboo	MTT609A	2
Tripod Dolly	Millboo	MJL01	2
Quick Release Assembly	Oben	GRA-R2	2
On-Camera Teleprompter Travel Kit	Ivan	PT4200-TK	2
WP9 Custom Plate	Rapco	Custom	2
WP9 Custom Plate	Rapco	Custom	1
Audio-			
Digital Mixer	Allen & Heath	QU-SB	1
Rack Ears	Allen & Heath	AH-QU-SB-RK19	1
Desk Monitor Speakers	JBL	305P MKII	2
Wireless Microphone System	Shure	SLXD14D	1
Battery Charger	Shure	SBC203	1
Rechargeable Battery	Shure	SB903	2
Wired Handheld Microphone	Shure	SM58S	4
Networking			
8-Port Networking Switch	Pakedge	MS-1212	1
3x3 Wireless Access Point	Pakedge	WK-2-C	1
Equipment Racks & Misc.-			
14RU Equipment Rack	Middle Atlantic	BRK14	1
Rear Rack Rails	Middle Atlantic	RK-ARR14	1
Vertical Power	Middle Atlantic	PD-81SSC-NS	1
Horizontal Power Distribution	Middle Atlantic	PD-91SR	1
On-Air Light	FSL-1		3
Anchor Desk	By Others	TBD	1
25' Microphone Cable	Whirlwind	MK450	4
Microphone Desk Stand	Gator Cases	GFW-MIC-0822	2
Microphone Stand	Gator Cases	GFW-MIC-1201	2

3 AV_Equipment_Schedule

NO SCALE

PROVIDE COMPLETE AV BROADCAST SYSTEM WITH ALL NECESSARY CABLES, CONNECTORS AND TERMINATIONS TO ALLOW FOR VIDEO PRODUCTIONS, AUDIO PRODUCTIONS AND OTHER MULTIMEDIA PRODUCTIONS. REFER TO EQUIPMENT LIST PROVIDE FOR BASIS OF DESIGN. ANY ALTERNATE PRODUCTS MUST MEET OR EXCEED THE SPECIFICATIONS OF THE ITEMS LISTED. AV CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, INSTALLING, COMMISSIONING AND TRAINING USERS ON THE SYSTEM PRIOR TO AND FOR 36 HOURS (IN COORDINATION WITH THE OWNERS'S SCHEDULE) AFTER INSTALL WITHIN ONE YEAR OF THE SYSTEM'S OPERATION. OWNER TO PROVIDE ALL ITEMS AND COMPLETE SYSTEM AS NOTED IN AV_EQUIPMENT_SCHEDULE.

LIGHTING GENERAL NOTES

- REFER TO SHEET E0018 FOR SYMBOLS, ABBREVIATIONS, AND MORE INFORMATION.
- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C. #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS.
- LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
- ALL LIGHTING FIXTURE LENSES, PARABOLIC LOUVERS, DOWNLIGHTING ALZAK CONES AND "PARACUBE" LOUVERS SHALL BE HANDLED WITH COTTON GLOVES DURING INSTALLATION AND LAMPING TO AVOID FINGERPRINTS OR DIRT DEPOSITS. IT IS PREFERRED THAT FIXTURES BE SHIPPED AND INSTALLED WITH CLEAR PLASTIC BAGS TO PROTECT LOUVERS. AT CLOSE OF PROJECT, AND AFTER CONSTRUCTION AIR FILTERS ARE CHANGED, REMOVE BAGS. ANY LOUVER OR CONE SHOWING DIRT OR FINGER PRINTS SHALL BE CLEANED WITH SOLVENT RECOMMENDED BY THE MANUFACTURER, OR REPLACED AS NECESSARY IN ORDER TO TURN OVER TO THE OWNER NEW FIXTURES AT OCCUPANCY.
- RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.

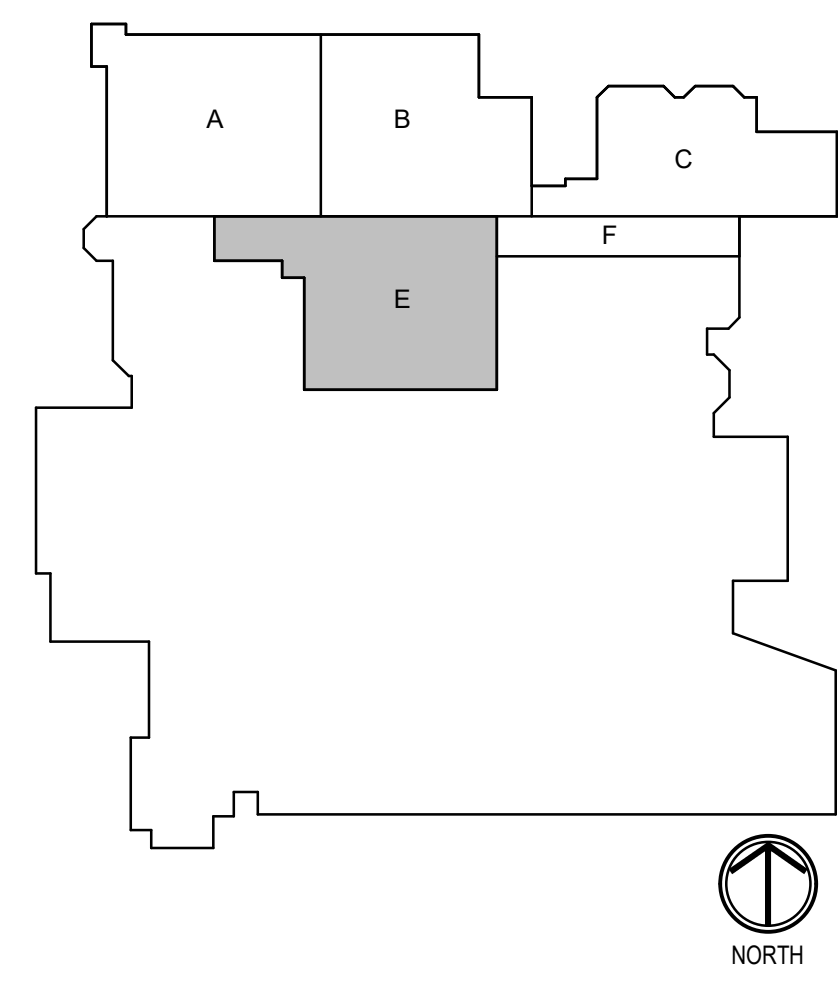
POWER - GENERAL NOTES

- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER NEC 310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER NEC 300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN NEC 100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- IDENTIFY THE PANEL AND CIRCUIT NUMBER FOR ALL RECEPTACLES, SWITCHES, ETC. IN AREA OF CONSTRUCTION. PROVIDE CLEAR ADHESIVE LABELS WITH BLACK LETTERING. IN HEALTHCARE FACILITIES, ENGRAVE EMERGENCY DEVICE COVERPLATES IN PATIENT CARE AREAS. MARK INSIDES OF ALL DEVICE BOXES WITH PANEL AND CIRCUIT NUMBER.
- LOCATIONS OF ELECTRICAL CONNECTIONS AND LOCAL DISCONNECTS SHALL BE COORDINATED WITH MECHANICAL AND PLUMBING CONTRACTORS TO ENSURE ACCESS AND WORKING CLEARANCE IS MAINTAINED PER NEC. NOTIFY OTHER TRADES OF REQUIRED CLEARANCE AREAS TO AVOID ROUTING OF OTHER SYSTEMS IN THESE AREAS. DO NOT INSTALL ELECTRICAL EQUIPMENT OVER EQUIPMENT NAMEPLATES OR ACCESS PANELS OR THROUGH ACCESS/MAINTENANCE CLEARANCES OF EQUIPMENT BY OTHER TRADES.
- ALL FIRE ALARM DEVICES TO BE SIEMENS TO MATCH EXISTING. TIE INTO EXISTING SYSTEM AS REQUIRED.

TAGGED NOTES

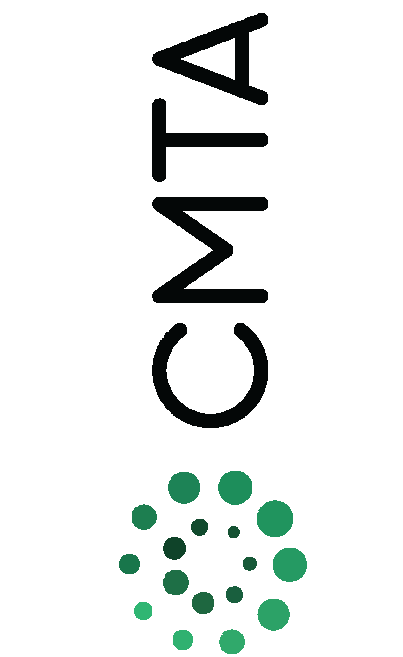
- ENC12 RELOCATED TIME CLOCK, REFER TO DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- ENC13 CENTER QUAD RECEPTACLES IN BETWEEN BACKSLASH AND GLASS. RELOCATED BLUE LIGHT. REFER TO MANUFACTURING LAB DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- ENC20 RELOCATED WIRELESS ACCESS POINT, REFER TO MANUFACTURING LAB DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- ENC22 RELOCATED SPEAKER, REFER TO MANUFACTURING LAB DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
- ENC30 PROVIDE (2) 3" CONDUIT SLEEVE LOCATED 6" ABOVE FLOOR.
- ENC32 REFER TO E-0028 FOR DATA RACK LOCATION TO BE UTILIZED IN THIS AREA.
- ENC40 PROVIDE WALL MOUNTED DATA RACK FOR NEW IT CABLE IN ROOMS 152, 152A, 152B, 152C, 152D. PROVIDE 6 STRANDS OF FIBER FROM ADJACENT IT CLOSET. COORDINATE EXACT FIBER REQUIREMENTS WITH OWNER. RACK SHOULD MATCH WALL MOUNTED RACK LOCATED IN STORAGE 102B.
- ENC41 PROVIDE NEW 2X4 FIXTURES. FIXTURES SHALL MATCH BUILDING STANDARD AND TIE INTO THE POE LIGHTING SYSTEM.
- ENC44 CONTRACTOR TO UTILIZE NEARBY RECEPTACLE CIRCUIT. EXTEND CONDUITS AND CONDUCTORS AS NEEDED.
- ENC46 NEW CARD READER / DOOR LOCATION. RELOCATE/EXTEND CABLES AS REQUIRED FROM PREVIOUS LOCATION TO NEW CARD READER / DOOR LOCATION.
- ENC47 REPURPOSE EXISTING POE NETWORK SWITCH. UTILIZE EXISTING NORMAL AND EMERGENCY POWER CIRCUITS PREVIOUSLY SERVING THIS SWITCH; EXTEND CIRCUIT CONDUCTORS AND CONDUIT AS REQUIRED TO ACCOMMODATE NEW LOCATION.
- ENC48 EXISTING WALL SWITCH. RECONNECT TO EXISTING POE NETWORK SWITCH.
- ENC49 PROVIDE ONE (1) NEW WALL SWITCH TO MATCH EXISTING, MANUFACTURER AND COLOR OF EXISTING SWITCH. CONNECT TO EXISTING POE NETWORK SWITCH.
- ENC60 PROVIDE CONTROL SCHEME FOR PRODUCTION ROOM FIXTURES AS FOLLOWS: PROVIDE WALL MOUNT ON/OFF CONTROLLER AND TABLETOP CONTROLLER (BASIS OF DESIGN COLORSOURCE 1520 CONSOLE). LIGHTS SHALL BE POWERED VIA SWITCHED RECEPTACLES MOUNTED TO LIGHTING BATTON THAT ARE CONTROLLED VIA WALL SWITCH. CONTROLS SHALL BE HARDWIRED OR WIRELESS DMX AS SUITABLE TO MEET THE REQUIREMENTS ABOVE. PROVIDE OWNER TRAINING ON SYSTEM.
- ENC66 PROVIDE CAT5 CABLE FOR ALL NEW NETWORK DROP FROM NEAREST RACK AS DEFINED ON PLAN. COORDINATE WITH OWNER ON EXACT CABLE TYPE.

KEY PLAN



CSO

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PROJECT:
CENTER GROVE COMMUNITY SCHOOL CORPORATION
CENTER GROVE HIGH SCHOOL
RENOVATION PROJECT - PACKAGE 2
2717 S MORGANTOWN RD
GREENWOOD, IN 46143

SCOPE DRAWINGS:
These drawings include the general scope of the project in terms of architectural design, structural, mechanical, electrical, and plumbing. The drawings are intended to provide a general overview of the project and are not intended to be used for construction purposes. The drawings are subject to change without notice.

REVISIONS:
1 ADDENDUM #2 08.29.2026
2 ADDENDUM #3 09.02.2026

ISSUE DATE 7/30/26 DRAWN BY JA CHECKED BY JBS

DRAWING TITLE:
LOWER LEVEL
ELECTRICAL
NEW WORK
PLANS - UNIT E



DRAWING NUMBER
E201E

PROJECT NUMBER
2025075

PANELBOARD AND WIRING SCHEDULE

PANEL: MH		MAINS TYPE: MCB		PANEL INTERRUPTING RATING: 10 KAIC										
VOLTAGE: 480Y/277V,3P,4W		SPD: No		LOCATION:										
AMPERES: 100 A		MOUNTING: SURFACE		SUPPLY FROM:										
GENERAL NOTES:														
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCB	P	CKT	A	B	C	CKT	P	OCB	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES
	1-ML	3-#3, 1-#8G	80	3	3	7.0	2.2		2					
					5				4					
					7	5.7	2.2		3	15		3-#12, 1-#12G	WF-1	
					9			5.4	2.2					
					11				6					
					13				8					
					15				9					
					17				10					
					19				12					
					21				14					
					23				16					
					25				18					
					27				20					
					29				22					
					31				24					
					33				26					
					35				28					
					37				30					
					39				32					
					41				34					
						9.2 kVA	7.9 kVA	7.6 kVA	42					
						33 A	29 A	27 A						
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND		PANEL TOTALS								
EQUIP		9800 VA	100.00%	9800 VA		TOTAL CONNECTED LOAD: 24682 VA								
HVAC		6582 VA	100.00%	6582 VA		TOTAL ESTIMATED DEMAND: 24682 VA								
REC		8280 VA	100.00%	8280 VA		TOTAL CONNECTED CURRENT: 30 A								
						TOTAL ESTIMATED DEMAND CURRENT: 30 A								
						25 % ADDITIONAL CAPACITY: 7 A								
						TOTAL PANEL CURRENT: 37 A								
NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.														

PANELBOARD AND WIRING SCHEDULE

PANEL: 15L1-C			MAINS TYPE: MCB			PANEL INTERRUPTING RATING: <ENGINEER TO SPECIFY>									
VOLTAGE: 208Y/120V, 3P, 4W			SPD:			LOCATION:									
AMPERES: 1 A			MOUNTING: SURFACE			SUPPLY FROM:									
GENERAL NOTES:															
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCB	P	CKT	A	B	C	CKT	P	OCB	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES	
	E.T.R. LOAD		20	1	0.0	0.0			2	1	20		E.T.R. LOAD		
	REC. GIRLS LOCKER ROOM	1-#12, 1-#12, 1-#12G	20	1	3		2.2	0.2	4	1	20	1-#12, 1-#12, 1-#12G	REC. GIRLS LOCKER ROOM	1	
1.	REC. GIRLS LOCKER ROOM	1-#12, 1-#12, 1-#12G	20	1	5			0.2	0.2	6	1	20	1-#12, 1-#12, 1-#12G	REC. GIRLS LOCKER ROOM	1
	E.T.R. LOAD		20	2	0.0	0.0			8	2	20		E.T.R. LOAD		
					9				10						
1.	EQUIP. GIRLS LOCKER ROOM	1-#12, 1-#12, 1-#12G	20	1	11			0.5	0.5	12	1	20	1-#12, 1-#12, 1-#12G	EQUIP. GIRLS LOCKER ROOM	1
1.	EQUIP. GIRLS LOCKER ROOM	1-#12, 1-#12, 1-#12G	20	1	13	0.5	0.5		14	2	20	1-#12, 1-#12, 1-#12G	EQUIP. GIRLS LOCKER ROOM	1	
1.	REC. GIRLS LOCKER ROOM	1-#12, 1-#12, 1-#12G	20	1	15		0.9	0.7	16	1	20	1-#12, 1-#12, 1-#12G	REC. GIRLS LOCKER ROOM	1	
	E.T.R. LOAD		20	1	17			0.0	0.2	18	1	20	1-#12, 1-#12, 1-#12G	REC. GIRLS LOCKER ROOM	1
	E.T.R. LOAD		20	1	19	0.0	0.4		20	1	20	1-#12, 1-#12, 1-#12G	REC. GIRLS LOCKER ROOM	1	
	E.T.R. LOAD		20	1	21		0.0	0.0	22	1	20		E.T.R. LOAD		
	E.T.R. LOAD		20	1	23			0.0	0.0	24	1	20		E.T.R. LOAD	
	E.T.R. LOAD		20	1	25	0.0	0.0		26	1	20		E.T.R. LOAD		
	E.T.R. LOAD		20	1	27		0.0	0.0	28	1	20		E.T.R. LOAD		
	E.T.R. LOAD		20	1	29			0.0	0.0	30	1	20		E.T.R. LOAD	
	E.T.R. LOAD		20	1	31	0.0	0.9		32	1	20	1-#12, 1-#12G	REC. GIRLS LOCKER ROOM	1	
1.	REC. GIRLS LOCKER ROOM	1-#12, 1-#12, 1-#12G	20	1	33		0.4	0.0	34	1	20		SPARE		
	SPARE		20	1	35			0.0	0.0	36	1	20		SPARE	
	SPARE		20	1	37	0.0	0.0		38	1	20		SPARE		
	SPARE		20	1	39		0.0	0.0	40	1	20		SPARE		
	SPARE		20	1	41			0.0	0.0	42	1	20		SPARE	
					2.3 kVA	4.3 kVA	1.5 kVA								
					20 A	37 A	13 A								
LOAD CLASSIFICATION			CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS						
EQUIP			4000 VA		100.00%		4000 VA		TOTAL CONNECTED LOAD: 8140 VA						
REC			4140 VA		100.00%		4140 VA		TOTAL ESTIMATED DEMAND: 8140 VA						
									TOTAL CONNECTED CURRENT: 23 A						
									TOTAL ESTIMATED DEMAND CURRENT: 23 A						
									25 % ADDITIONAL CAPACITY: 6 A						
									TOTAL PANEL CURRENT: 28 A						
NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.															
1. EXISTING 20A SPARE TO BE USED FOR NEW WORK.															

PANELBOARD AND WIRING SCHEDULE

PANEL: ML		MAINS TYPE: MLO				PANEL INTERRUPTING RATING: ENGINEER TO SPECIFY									
VOLTAGE: 208Y/120V, 3P, 4W		SPD: No				LOCATION:									
AMPERES: 150 A		MOUNTING: SURFACE				SUPPLY FROM: 1-ML									
GENERAL NOTES:															
NOTES	CIRCUIT DESCRIPTION	HOT, NEUT, GND	OCB	P	CKT	A	B	C	CKT	P	OCB	HOT, NEUT, GND	CIRCUIT DESCRIPTION	NOTES	
	REC	1-#12, 1-#12, 1-#12G	20	1	1	0.2	0.1		2	2	50	2-#6, 1-#6, 1-#10G	WELDER	1.	
	REC	1-#12, 1-#12, 1-#12G	20	1	3		0.2	0.1		4	1				
	REC	1-#12, 1-#12, 1-#12G	20	1	5			0.2	0.1	6	2	50	2-#6, 1-#6, 1-#10G	WELDER	
	REC	1-#12, 1-#12, 1-#12G	20	1	7	0.2	0.1		8	1	50	2-#6, 1-#6, 1-#10G	WELDER	1.	
1.	WELDER	2-#6, 1-#6, 1-#10G	50	2	9		0.1	0.2		10	1	20	1-#12, 1-#12, 1-#12G	REC	
			20	2	11			0.1	0.1	12	50	2-#6, 1-#6, 1-#10G	WELDER	1.	
	REC	1-#12, 1-#12, 1-#12G	20	1	13	0.2	0.1		14	2	50	2-#6, 1-#6, 1-#10G	WELDER		
	REC	1-#12, 1-#12, 1-#12G	20	1	15		0.7	0.7		16	1	20	1-#12, 1-#12, 1-#12G	REC	
	REC	1-#12, 1-#12, 1-#12G	20	1	17			0.7	0.0	18	1	20	-#12, 1-#12, 1-#12G	SPARE	
	REC	1-#12, 1-#12, 1-#12G	20	1	19	0.7	0.7		20	1	20	1-#12, 1-#12, 1-#12G	REC		
	REC	1-#12, 1-#12, 1-#12G	20	1	21		0.7	0.0		22	1	20	-#12, 1-#12, 1-#12G	SPARE	
	REC	1-#12, 1-#12, 1-#12G	20	1	23			0.7	0.7	24	1	20	1-#12, 1-#12, 1-#12G	REC	
	EQUIP	1-#12, 1-#12, 1-#12G	20	1	25	1.0	1.0		26	1	20	1-#12, 1-#12, 1-#12G	EQUIP		
	EQUIP	1-#12, 1-#12, 1-#12G	20	1	27		1.0	0.0		28	1	20	SPARE		
	EQUIP	1-#12, 1-#12, 1-#12G	20	1	29			1.0	1.0	30	1	20	1-#12, 1-#12, 1-#12G	EQUIP	
	EQUIP	1-#12, 1-#12, 1-#12G	20	1	31	1.0	1.0		32	1	20	1-#12, 1-#12, 1-#12G	EQUIP		
	EQUIP	1-#12, 1-#12, 1-#12G	20	1	33		1.0	1.0		34	1	20	1-#12, 1-#12, 1-#12G	EQUIP	
	REC	1-#12, 1-#12, 1-#12G	20	1	35			0.7	0.0	36	1	20	-#12, 1-#12, 1-#12G	SPARE	
	REC	1-#12, 1-#12, 1-#12G	20	1	37	0.7	0.0		38	1	20	-#12, 1-#12, 1-#12G	SPARE		
	SPARE	-#12, 1-#12, 1-#12G	20	1	39		0.0		40						
					41				42						
						7.0 kVA	5.7 kVA	5.4 kVA							
						59 A	48 A	45 A							
LOAD CLASSIFICATION		CONNECTED LOAD	DEMAND FACTOR	EST	DEMAND		PANEL TOTALS								
EQUIP		9800 VA	100.00%		9800 VA								TOTAL CONNECTED LOAD:	18800 VA	
REC		8280 VA	100.00%		8280 VA								TOTAL ESTIMATED DEMAND:	18800 VA	
												TOTAL CONNECTED CURRENT:		50 A	
												TOTAL ESTIMATED DEMAND CURRENT:		50 A	
												25 % ADDITIONAL CAPACITY:		13 A	
												TOTAL PANEL CURRENT:		63 A	
NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.															
1. PRIOR TO INSTALLATION OF SQA BREAKER AND SQA RECEPTACLE, CONFIRM EXACT PLUG TYPE WITH OWNER FOR WELDER AND NOTIFY ENGINEER OF ANY DISCREPANCIES.															