

**SECTION 00 90 03
BIDDING AND CONTRACT REQUIREMENTS
ADDENDUM NUMBER 3**

**Demonica Kemper Architects
125 N. Halsted Street, Suite 301
Chicago, IL 60661
312.496.0000**

To: Prospective Bidders

Issued: October 6, 2023

Re: ADDENDUM NUMBER (3) TO THE BIDDING DOCUMENTS FOR

**McHenry County College
University Center at MCC**
Architect's Project Number: 22-050

This addendum forms a part of the bidding and contract documents and modifies the original bidding documents dated September 19, 2023. Acknowledge receipt of this addendum in the space provided on Bid Form. FAILURE TO DO SO MAY SUBJECT BIDDER TO DISQUALIFICATION.

ADDENDA TO THE PROJECT MANUAL

1. 00 41 13 – Bid Form
 - A. **REVISE** bid form to include reference to additional allowances noted below. Spec Section Re-issued in its entirety for inclusion in the bid submittal.

2. 01 21 00 – Allowances
 - A. **REVISE** list of allowances included in the project scope to the following...
 - "A. Allowance No. 1: Include an allowance of \$50,000.00 for unforeseen conditions.
 - B. Allowance No. 2: Include an allowance of \$10,000.00 for security systems at existing main entrance doors.
 - C. Allowance No. 3: Include an allowance of \$125,000.00 for renovation of existing toilet rooms."
 - B. Note that the section will not re-issued during bidding but will be included in the Issued for Construction Specifications sent out post bid. Refer to the bid form for updated allowance language.

3. 06 41 16 – Plastic Laminate-Faced Architectural Cabinets
 - A. **REVISE** section 2.4 Cabinet Hardware and Accessories to the following...
 - "D. Wire Pulls: Rockler; Back mounted, solid metal, 4 1/2 inches long, Urban Cabinet Pulls, Polished Nickel."
 - B. Note that the section will not re-issued during bidding but will be included in the Issued for Construction Specifications sent out post bid.

4. 08 71 00 – Door Hardware
 - A. **ADD** door attached section in its entirety.

5. 09 51 13 – Acoustical Panel Ceilings
 - A. **REVISE** section 2.3-B to "Ceiling Type 2C" in lieu of "Ceiling Type 2C and 4".
 - B. **REVISE** section 2.3-D to "Ceiling Type 4" in lieu of "Ceiling Type 5".
 - C. **REVISE** section 2.3-D-1 to "Modular Size: 36 inches by 72 inches by 3/4 inches."
 - D. Note that the section will not re-issued during bidding but will be included in the Issued for Construction Specifications sent out post bid.

6. 09 64 33 – Wood Flooring
 - A. **REVISE** references of flooring type to “WF-X” in lieu of “WD-X”.
 - B. Note that the section will not re-issued during bidding but will be included in the Issued for Construction Specifications sent out post bid.
7. 10 26 00 – Wall and Door Protection
 - A. **ADD** specification section in its entirety.
8. 27 41 16 – Audiovisual System
 - A. **ADD** specification section in its entirety.

ADDENDA TO THE DRAWINGS

ARCHITECTURE

1. All Sheets – Note that clarifications listed below are now clouded for clarity and will be issued post bid in the “Issued for Construction” drawings.
 - A. Exterior wall thickness / make-up revised to match existing conditions. Any impacts to the design layouts have been indicated below. All other changes are minor in nature and do not change the scope of work.
2. AD1.10
 - A. **REVISE** scope notes for salvage requirements as indicated.
 - B. **REVISE** scope notes for removal of misc. items and FF&E as indicated.
 - C. **ADD** note M1 for additional millwork to be removed as indicated.
 - D. **ADD** note M13 for removal of blinds from windows indicated.
 - E. **ADD** note M12 for removal of existing window film complete as indicated.
 - F. **ADD** note W7 for removal of metal panel wall system as indicated.
 - G. **ADD** note F7 for removal of metal plate flooring as indicated.
3. AD2.10
 - A. **REVISE** scope notes for salvage requirements as indicated.
 - B. **REVISE** scope notes for removal of misc. items and FF&E as indicated.
 - C. **DELETE** note 7. Contractor to complete work required for new mechanical layout in circular classroom without modification to existing curved ceiling.
 - D. **REVISE** note S3A and SAT ceiling demo symbol description as indicated to include complete removal of batt insulation on top of all SAT ceiling systems.
4. A1.11
 - A. **ADD** note 2 as indicated.
 - B. **ADD** note 4 to room 149 as indicated.
 - C. **ADD** note 7 to room 102 as indicated.
 - D. **ADD** note 12 to room 102 as indicated.
 - E. **ADD** wall section through window elevation A.
5. A2.11 / A2.51
 - A. **DELETE** note 3 in classroom 102. Contractor to complete work required for new mechanical layout in circular classroom without modification to existing curved ceiling.
 - B. **REVISE** ceiling types in rooms 105A / 105B as indicated.
 - C. **REVISE** layout of sprinkler heads / devices in room 105A as indicated.
 - D. **REVISE** layout of interior / exterior cameras and wireless access points as indicated. Refer to electrical for additional scope details and coordinate final locations with owner / architect prior to installation.
 - E. **REVISE** layout of vestibule V001 as indicated.

6. A5.01
 - A. **REVISE** section 1 as indicated to reflect section condition and sim conditions.
 - B. **REVISE** detail 11 as indicated.
 - C. **ADD** section 12 as indicated through window elevation A.
7. A9.51 / A11.01
 - A. **REVISE** WD-1, WD-2, WD-3, WD-4, and CP-1 as indicated.
8. A10.00
 - A. **REVISE** door and frame schedule as indicated.
 - B. **REVISE** detail numbering for numerical order. Clouds not indicated for clarity.
 - C. **REVISE** glass type indicated for window elevation A to GL-02 as indicated.

FIRE PROTECTION

1. FP1.00
 - A. **ADD** note in Corridor C001.

ELECTRICAL

1. ED1.10
 - A. **ADD** note to disconnect existing mechanical equipment in restrooms and storage room.
 - B. **ADD** note to keep existing fiber-optic lights in round classroom.
 - C. **ADD** note to relocate existing telecommunication service in existing IT room.
 - D. **ADD** photo of existing IT room.
2. E1.10
 - A. **REVISE** locations of exterior and interior security cameras.
 - B. **ADD** locations of exterior wireless access points.
 - C. **DELETE** work door operator and card reader work in Vestibule V001.
 - D. **ADD** locations of duct smoke detectors and associated test switches.
 - E. **DELETE** locations of 'AV-B' devices.
3. E2.10
 - A. **REVISE** switchleg designation in Classroom 102.
 - B. **ADD** note to keep existing fiber-optic lighting in Classroom 102.
 - C. **ADD** switch to control existing fiber-optic lighting in Classroom 102.
4. E3.00
 - A. **ADD** note to show new location of telecommunication equipment in IT / Electrical 146.
5. E6.00
 - A. **REVISE** luminaire types "F3A" and "F7".
6. E7.20
 - A. **REVISE** 'ACCESS CONTROL / SECURITY DEVICE DETAIL'.
7. E7.30
 - A. **REVISE** 'CLASSROOMS A/V SCHEMATIC DIAGRAM'.
8. E7.40
 - A. **ADD** 'CREDENTIAL READER DETAIL'.

CLARIFICATIONS

1. Refer to attached for pre-bid RFI and their associated responses submitted to date. Any outstanding pre-bid RFI will be answered by the final addendum.
2. Note that the final addendum will be issued on Thursday, October 12, 2023 by 5:00 PM.

This addendum consists of 4 pages, excluding attachments.

END 00 90 03.

Attachments:

1. 2023.10.06 – Addendum #3 – Pre-bid RFI
2. Switchgear Alternate Diagram
3. 00 41 13 – Bid Form
4. 08 71 00 – Door Hardware
5. 10 26 00 – Wall and Door Protection
6. 27 41 16 - Audiovisual System
7. AD1.10, AD2.10, A1.11, A2.11, A2.51, A5.01, A9.51, A10.00, A11.01
8. FP1.00
9. ED1.10, E1.10, E2.10, E3.00, E6.00, E7.20, E7.30, E7.40



**McHenry County College
University Center at MCC
DKA Project No.: 22-050**

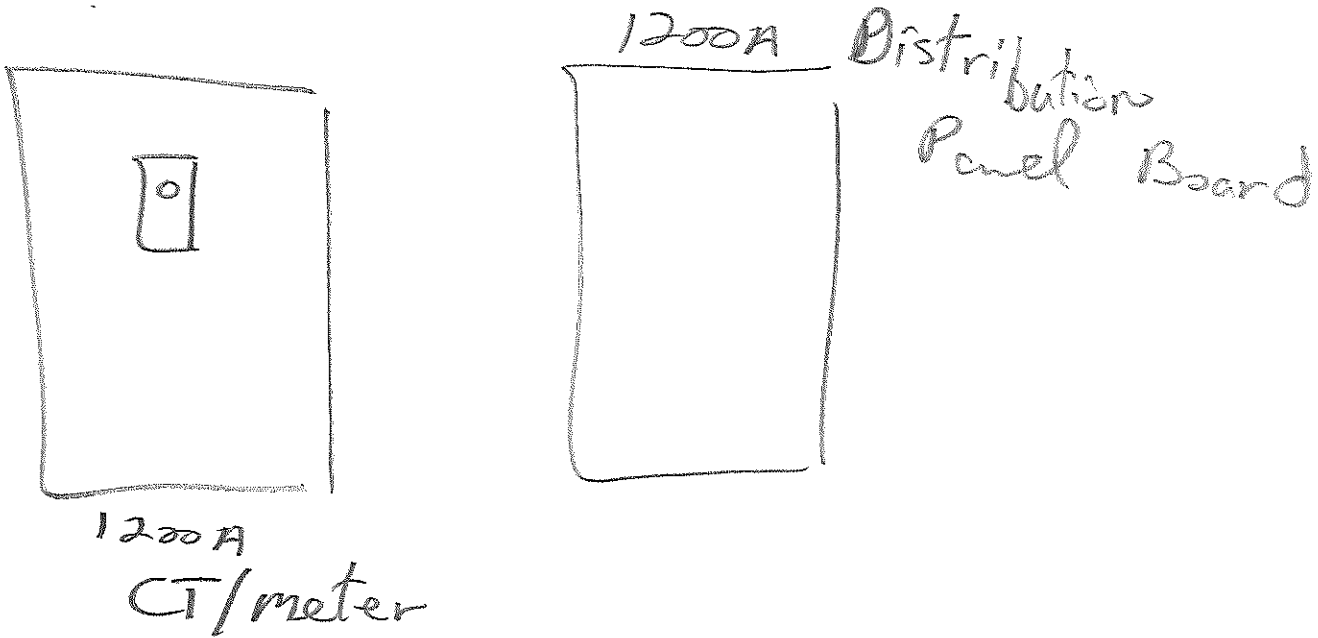
**Pre-Bid RFI - Addendum 3
10/6/2023**

RFI #	Question	Answer
001	Who is to install Access Control Cables and Security wires?	Contractor is responsible for installing access control cables and security wires. Refer to Addendum #3 for clarifications on the scope requirements.
002	See attached Voluntary Alternate Request – Can we use 1200 a C/T/ Meter with a 1200 a Distribution Panelboard Inside in lieu of switchboard? (Refer to attached email document)	The proposed alternate is acceptable. Refer to attachments for submitted alternate for reference.
003	Who is responsible for removal of existing furniture (pictures, white boards, signage etc.)?	The contractor will be responsible for removing all loose / misc items remaining on-site once demolition starts unless otherwise noted. The owner will remove all items or tag them as existing to remain if they intend to keep them prior to the start of demolition.
004	Do current window blinds stay or to be removed?	Existing blinds are to be removed and openings preped for installation of new blinds.
005	Who is responsible for the new Security system?	New security system will be by owner's vendor. Refer to clarifications to the Elec/Tech drawings E7.30 for additional clarification on contractor scope vs others and other equipment requirements / details.
006	Please provide a sealed concrete spec.	Product requirements are noted in 09 91 23 Interior Painting, Section 3.6-A-1 Water-Based Concrete Floor Sealer System, MPI INT 3.2G.
007	Do any of the existing RTU units need to be serviced?	Units to be provided with new filters, see specifications on HV4.0.
008	The spec book is missing a HVAC section, please provide.	See specifications on HV4.0. Book format specifications have not been issued for this project.

009	Ceramic tile - Restrooms are calling for WT-1 on A11.01. However, when you go to A8.01 (Interior Elevations) The tag is T2 which is not listed on A11.01. Please clarify on what to use.	WT-1 is the correct tag for the wall tile in the toilet rooms.
010	Provide a spec indicating the products for the acoustical panel ceiling.	Refer to spec 09 51 13 issued in Addendum #2 and clarified in Addendum #3
011	I believe the ceiling below in conference 150B is tagged wrong. Can you verify if its supposed to be 2 x 2 ceiling or something else?	Conference Room 150A / 150B should be type 2C, 2x4 tiles with scored surface pattern. Refer to Addendum #3 for more information.
012	Can you please provide door hardware specs?	Specs will be issued as part of Addendum #3.
013	When filling in the face brick on the back of the building, the detail calls for paint to match. Are we to paint the entire back exterior wall to match the infill or just paint the infill?	Paint areas of infill only to match the existing painted brick finish.
014	We can't request sheet metal quotes from vendors without mechanical specifications. After reviewing the provided documents, we didn't see any specs for this. Could you please request mechanical specifications for this project?	Refer to HV4.00, General Notes - HVAC Work notes 6-12 for duct requirements. If there are specific questions from those specified items, please submit an additional RFI for clarification.
015	I have looked through the bid documents but cannot find the Standard Warranty for the University Center at MCC. Can you please provide?	General project warranty is covered under 12.2.2.1 in the A201 General Conditions provided in the specification section 00 72 13.
016	Who is responsible for relocating the phone/fiber service? Also, where is the existing to go? The middle closet (current) or the new IT closet?	Contractor will be responsible for relocating the existing phone/fiber services to the new IT closet in IT/Electrical 146. This will be addressed in an upcoming addendum.
017	I don't see a schedule for the existing RTU units. Do all 8 units require duct smoke detection devices? RTU's 1-8 shown on pg E1.20	All existing RTU units will require duct smoke detectors. This will be addressed in an upcoming addendum.
018	Frame Elevation#A on A10.00 is tagged with infill GL-01. Elevation for frame on A9.01 and schedule tag infill as GL-02. Please clarify.	GL-02 is is the correct type for this window.

VIA Voluntary AET

MCC University



Can we use a 1200A CT/meter outside with 1200A Distribution Panel Board inside IM Lien

SECTION 00 41 13 - BID FORM

To: McHenry County College
8900 US Hwy 14
Crystal Lake, IL 60012

Project: University Center at MCC

Date: _____

Submitted by:

(Full name and address)

PART 1 - OFFER

Having examined the site and having familiarized itself with the conditions affecting the cost of the work associated with the project and with the bidding documents, Bidder hereby proposes to perform everything required and to furnish all labor, materials, necessary tools, expendable equipment, and transportation services necessary to complete in a workmanlike manner the subdivision of work stated above in accordance with the bidding documents for the following sums:

Base Bid:

We have included, attached herewith, the Bid Bond as required by the Instructions to Bidders.

The Bidder agrees to perform the work for the lump sum amount of:

TOTAL BASE BID \$ _____ (in figures)

_____ (in words)

Allowances:

The undersigned hereby states that all allowance amounts, as described in Section 01 21 00, are included in the Total Base Bid proposal amount listed above.

ALLOWANCE NO. 1: Include an allowance of \$50,000.00 for unforeseen conditions.

ALLOWANCE NO. 2: Include an allowance of \$10,000.00 for security systems at existing main entrance doors.

ALLOWANCE NO. 3: Include an allowance of \$125,000.00 for renovation of existing toilet rooms.

Alternate Bids:

The undersigned hereby states the net amount of decrease or increase to the Lump Sum Base Bid for the following Alternates as described in Section 01 23 00.

ALTERNATE No. 1: Deduct from the Lump Sum Base Bid to eliminate the Liquidated Damages Clause from the contract.

Total, Alternate No. 1: \$ _____

ALTERNATE No. 2: Add to the Lump Sum Base Bid to provide Trane BAC Controls in lieu of individual thermostat control for the air handling units. Refer to Mechanical Drawings / Specs for additional scope details.

Total, Alternate No. 2: \$ _____

ALTERNATE No. 3: Add / Deduct to the Lump Sum Base Bid to provide electrical switchboard equipment from additional vendors. Refer to specification 26 24 13 Switchboards for additional information.

Total, Alternate No. 3: \$ _____

PART 3 - ACCEPTANCE

This offer shall be open to acceptance and is irrevocable for thirty (90) days from the Bid closing date.

If the bid is accepted by the Owner within the time period stated above, we will:

- A. Execute the Agreement within ten (10) days of receipt of Notice of Award.
- B. Furnish the required bonds within ten (10) days of receipt of Notice of Award in the form described in the Supplementary Conditions.
- C. Furnish the required Certificate of Insurance within ten (10) days of receipt of Notice of Award in the form and amounts described in the Supplementary Conditions.
- D. Commence work as established by the written Notice to Proceed.

If this Bid is accepted within the time stated, and we fail to commence the Work or we fail to provide the required Bonds(s), the Security Deposit shall be forfeited as damages to the Owner by reason of our failures.

In the event our Bid is not accepted within the time stated above, the required security deposit shall be returned to the undersigned, in accordance with the provisions of the Instructions to Bidders; unless a mutually satisfactory arrangement is made for its retention and validity for an extended period of time.

PART 4 - CONTRACT TIME

If the Bid is accepted, we will:

- A. Complete the work in manner consistent to meet the requirements of the schedule.
- B. Contractor has examined the Schedule included in these documents and takes no exception, or records the following exceptions:

PART 5 - CONTRACTOR'S FEES FOR CHANGES IN THE WORK

Lump Sum or Time and Materials Changes: We, the undersigned bidder, agree that the following percentages for overhead and profit shall be added to costs for the net amount of work added to, or deleted from, the contract by written lump sum or time and material change orders recommended by the Architect and approved by the Owner:

- A. On Contractor's direct net cost: 15%, with a minimum fee of one hundred dollars (\$100.00).
- B. On first-tier Subcontractor's net cost: 5%, with a minimum fee of fifty dollars (\$50.00). Net cost includes all sub-subcontractors work, and excludes subcontractors (all tiers) overhead and profit amounts.

Note: Insurance, bond, and taxes are considered as job cost items and are included in the percentages listed above.

PART 6 - ADDENDA

The following Addenda have been received. The modifications to the Bid Documents noted therein have been considered and all costs thereto are included in the Bid Sum.

Addendum # ____ Dated _____ Addendum # ____ Dated _____
 Addendum # ____ Dated _____ Addendum # ____ Dated _____

PART 7 - SUBCONTRACTORS

Identify below which work will be completed by the General Contractor's own forces and which work will be completed by first tier Subcontractors. Include Subcontractors name and estimated contract amount.

Scope of Work	GC/Sub.	Name	Est. Contract Amount
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

PART 8 - BID FORM SIGNATURE(S)

The Corporate Seal of:

(Bidder – please print the full name of your Proprietorship or Corporation)

Was hereunto affixed in the presence of:

(Authorized signing officer)

(Title)

(Seal)

END OF SECTION 00 41 13

SECTION 08 71 00 - DOOR HARDWARE

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Mechanical and electrified door hardware
 - 2. Electronic access control system components
- B. Section excludes:
 - 1. Windows
 - 2. Cabinets (casework), including locks in cabinets
 - 3. Signage
 - 4. Toilet accessories
 - 5. Overhead doors
- C. Related Sections:
 - 1. Division 01 Section "Alternates" for alternates affecting this section.
 - 2. Division 06 Section "Rough Carpentry"
 - 3. Division 06 Section "Finish Carpentry"
 - 4. Division 07 Section "Joint Sealants" for sealant requirements applicable to threshold installation specified in this section.
 - 5. Division 08 Sections:
 - a. "Metal Doors and Frames"
 - b. "Flush Wood Doors"
 - c. "Stile and Rail Wood Doors"
 - d. "Interior Aluminum Doors and Frames"
 - e. "Aluminum-Framed Entrances and Storefronts"
 - f. "Stainless Steel Doors and Frames"
 - g. "Special Function Doors"
 - h. "Entrances"
 - 6. Division 26 "Electrical" sections for connections to electrical power system and for low-voltage wiring.
 - 7. Division 28 "Electronic Safety and Security" sections for coordination with other components of electronic access control system and fire alarm system.

1.2 REFERENCES

- A. UL LLC
 - 1. UL 10B - Fire Test of Door Assemblies
 - 2. UL 10C - Positive Pressure Test of Fire Door Assemblies
 - 3. UL 1784 - Air Leakage Tests of Door Assemblies
 - 4. UL 305 - Panic Hardware
- B. DHI - Door and Hardware Institute
 - 1. Sequence and Format for the Hardware Schedule

2. Recommended Locations for Builders Hardware
3. Keying Systems and Nomenclature
4. Installation Guide for Doors and Hardware

C. NFPA – National Fire Protection Association

1. NFPA 70 – National Electric Code
2. NFPA 80 – 2016 Edition – Standard for Fire Doors and Other Opening Protectives
3. NFPA 101 – Life Safety Code
4. NFPA 105 – Smoke and Draft Control Door Assemblies
5. NFPA 252 – Fire Tests of Door Assemblies

D. ANSI - American National Standards Institute

1. ANSI A117.1 – 2017 Edition – Accessible and Usable Buildings and Facilities
2. ANSI/BHMA A156.1 - A156.29, and ANSI/BHMA A156.31 - Standards for Hardware and Specialties
3. ANSI/BHMA A156.28 - Recommended Practices for Keying Systems
4. ANSI/WDMA I.S. 1A - Interior Architectural Wood Flush Doors
5. ANSI/SDI A250.8 - Standard Steel Doors and Frames

1.3 SUBMITTALS

A. General:

1. Submit in accordance with Conditions of Contract and Division 01 Submittal Procedures.
2. Prior to forwarding submittal:
 - a. Review drawings and Sections from related trades to verify compatibility with specified hardware.
 - b. Highlight, encircle, or otherwise specifically identify on submittals: deviations from Contract Documents, issues of incompatibility or other issues which may detrimentally affect the Work.

B. Action Submittals:

1. Product Data: Submit technical product data for each item of door hardware, installation instructions, maintenance of operating parts and finish, and other information necessary to show compliance with requirements.
2. Riser and Wiring Diagrams: After final approval of hardware schedule, submit details of electrified door hardware, indicating:
 - a. Wiring Diagrams: For power, signal, and control wiring and including:
 - 1) Details of interface of electrified door hardware and building safety and security systems.
 - 2) Schematic diagram of systems that interface with electrified door hardware.
 - 3) Point-to-point wiring.
 - 4) Risers.
3. Samples for Verification: If requested by Architect, submit production sample of requested door hardware unit in finish indicated and tagged with full description for coordination with schedule.

- a. Samples will be returned to supplier. Units that are acceptable to Architect may, after final check of operations, be incorporated into Work, within limitations of key coordination requirements.
4. Door Hardware Schedule:
- a. Submit concurrent with submissions of Product Data, Samples, and Shop Drawings. Coordinate submission of door hardware schedule with scheduling requirements of other work to facilitate fabrication of other work critical in Project construction schedule.
 - b. Submit under direct supervision of a Door Hardware Institute (DHI) certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) with hardware sets in vertical format as illustrated by Sequence of Format for the Hardware Schedule published by DHI.
 - c. Indicate complete designations of each item required for each opening, include:
 - 1) Door Index: door number, heading number, and Architect's hardware set number.
 - 2) Quantity, type, style, function, size, and finish of each hardware item.
 - 3) Name and manufacturer of each item.
 - 4) Fastenings and other pertinent information.
 - 5) Location of each hardware set cross-referenced to indications on Drawings.
 - 6) Explanation of all abbreviations, symbols, and codes contained in schedule.
 - 7) Mounting locations for hardware.
 - 8) Door and frame sizes and materials.
 - 9) Degree of door swing and handing.
 - 10) Operational Description of openings with electrified hardware covering egress, ingress (access), and fire/smoke alarm connections.
5. Key Schedule:
- a. After Keying Conference, provide keying schedule that includes levels of keying, explanations of key system's function, key symbols used, and door numbers controlled.
 - b. Use ANSI/BHMA A156.28 "Recommended Practices for Keying Systems" as guideline for nomenclature, definitions, and approach for selecting optimal keying system.
 - c. Provide 3 copies of keying schedule for review prepared and detailed in accordance with referenced DHI publication. Include schematic keying diagram and index each key to unique door designations.
 - d. Index keying schedule by door number, keyset, hardware heading number, cross keying instructions, and special key stamping instructions.
 - e. Provide one complete bitting list of key cuts and one key system schematic illustrating system usage and expansion. Forward bitting list, key cuts and key system schematic directly to Owner, by means as directed by Owner.
 - f. Prepare key schedule by or under supervision of supplier, detailing Owner's final keying instructions for locks.
- C. Informational Submittals:
- 1. Provide Qualification Data for Supplier, Installer and Architectural Hardware Consultant.
 - 2. Provide Product Data:
 - a. Certify that door hardware approved for use on types and sizes of labeled fire-rated doors complies with listed fire-rated door assemblies.
 - b. Include warranties for specified door hardware.

D. Closeout Submittals:

1. Operations and Maintenance Data: Provide in accordance with Division 01 and include:
 - a. Complete information on care, maintenance, and adjustment; data on repair and replacement parts, and information on preservation of finishes.
 - b. Catalog pages for each product.
 - c. Final approved hardware schedule edited to reflect conditions as installed.
 - d. Final keying schedule
 - e. Copy of warranties including appropriate reference numbers for manufacturers to identify project.
 - f. As-installed wiring diagrams for each opening connected to power, both low voltage and 110 volts.

E. Inspection and Testing:

1. Submit written reports to the Owner and Authority Having Jurisdiction (AHJ) of the results of functional testing and inspection for:
 - a. Fire door assemblies, in compliance with NFPA 80.
 - b. Required egress door assemblies, in compliance with NFPA 101.

1.4 QUALITY ASSURANCE

A. Qualifications and Responsibilities:

1. Supplier: Recognized architectural hardware supplier with a minimum of 5 years documented experience supplying both mechanical and electromechanical door hardware similar in quantity, type, and quality to that indicated for this Project. Supplier to be recognized as a factory direct distributor by the manufacturer of the primary materials with a warehousing facility in the Project's vicinity. Supplier to have on staff, a certified Architectural Hardware Consultant (AHC) or Door Hardware Consultant (DHC) available to Owner, Architect, and Contractor, at reasonable times during the Work for consultation.
2. Installer: Qualified tradesperson skilled in the application of commercial grade hardware with experience installing door hardware similar in quantity, type, and quality as indicated for this Project.
3. Architectural Hardware Consultant: Person who is experienced in providing consulting services for door hardware installations that are comparable in material, design, and extent to that indicated for this Project and meets these requirements:
 - a. For door hardware: DHI certified AHC or DHC.
 - b. Can provide installation and technical data to Architect and other related subcontractors.
 - c. Can inspect and verify components are in working order upon completion of installation.
 - d. Capable of producing wiring diagram and coordinating installation of electrified hardware with Architect and electrical engineers.
4. Single Source Responsibility: Obtain each type of door hardware from single manufacturer.

B. Certifications:

1. Fire-Rated Door Openings:

- a. Provide door hardware for fire-rated openings that complies with NFPA 80 and requirements of authorities having jurisdiction.
 - b. Provide only items of door hardware that are listed products tested by UL LLC, Intertek Testing Services, or other testing and inspecting organizations acceptable to authorities having jurisdiction for use on types and sizes of doors indicated, based on testing at positive pressure and according to NFPA 252 or UL 10C and in compliance with requirements of fire-rated door and door frame labels.
2. Smoke and Draft Control Door Assemblies:
- a. Provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105
 - b. Comply with the maximum air leakage of 0.3 cfm/sq. ft. (3 cu. m per minute/sq. m) at tested pressure differential of 0.3-inch wg (75 Pa) of water.
3. Electrified Door Hardware
- a. Listed and labeled as defined in NFPA 70, Article 100, by testing agency acceptable to authorities having jurisdiction.
4. Accessibility Requirements:
- a. Comply with governing accessibility regulations cited in "REFERENCES" article 087100, 1.02.D3 herein for door hardware on doors in an accessible route. This project must comply with all Federal Americans with Disability Act regulations and all Local Accessibility Regulations.
- C. Pre-Installation Meetings
1. Keying Conference
- a. Incorporate keying conference decisions into final keying schedule after reviewing door hardware keying system including:
 - 1) Function of building, flow of traffic, purpose of each area, degree of security required, and plans for future expansion.
 - 2) Preliminary key system schematic diagram.
 - 3) Requirements for key control system.
 - 4) Requirements for access control.
 - 5) Address for delivery of keys.
2. Pre-installation Conference
- a. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - b. Inspect and discuss preparatory work performed by other trades.
 - c. Inspect and discuss electrical roughing-in for electrified door hardware.
 - d. Review sequence of operation for each type of electrified door hardware.
 - e. Review required testing, inspecting, and certifying procedures.
 - f. Review questions or concerns related to proper installation and adjustment of door hardware.
3. Electrified Hardware Coordination Conference:
- a. Prior to ordering electrified hardware, schedule and hold meeting to coordinate door hardware with security, electrical, doors and frames, and other related suppliers.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Inventory door hardware on receipt and provide secure lock-up for hardware delivered to Project site. Promptly replace products damaged during shipping.
- B. Tag each item or package separately with identification coordinated with final door hardware schedule, and include installation instructions, templates, and necessary fasteners with each item or package. Deliver each article of hardware in manufacturer's original packaging.
- C. Maintain manufacturer-recommended environmental conditions throughout storage and installation periods.
- D. Provide secure lock-up for door hardware delivered to Project. Control handling and installation of hardware items so that completion of Work will not be delayed by hardware losses both before and after installation.
- E. Handle hardware in manner to avoid damage, marring, or scratching. Correct, replace or repair products damaged during Work. Protect products against malfunction due to paint, solvent, cleanser, or any chemical agent.
- F. Deliver keys to manufacturer of key control system for subsequent delivery to Owner.

1.6 COORDINATION

- A. Coordinate layout and installation of floor-recessed door hardware with floor construction. Cast anchoring inserts into concrete.
- B. Installation Templates: Distribute for doors, frames, and other work specified to be factory or shop prepared. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing door hardware to comply with indicated requirements.
- C. Security: Coordinate installation of door hardware, keying, and access control with Owner's security consultant.
- D. Electrical System Roughing-In: Coordinate layout and installation of electrified door hardware with connections to power supplies and building safety and security systems.

1.7 WARRANTY

- A. Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within published warranty period.
 - 1. Warranty does not cover damage or faulty operation due to improper installation, improper use or abuse.
 - 2. Warranty Period: Beginning from date of Substantial Completion, for durations indicated in manufacturer's published listings.
 - a. Mechanical Warranty
 - 1) Locks
 - a) Corbin Russwin ML Series: 10 years
 - 2) Exit Devices
 - a) Von Duprin: 3 years
 - 3) Closers

- a) LCN 4000 Series: 30 years
- b) CRL Concealed: 5 years
- b. Electrical Warranty
- 1) Exit Devices
 - a) Von Duprin: 1 year

1.8 MAINTENANCE

- A. Furnish complete set of special tools required for maintenance and adjustment of hardware, including changing of cylinders.
- B. Turn over unused materials to Owner for maintenance purposes.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. The Owner requires use of certain products for their unique characteristics and project suitability to ensure continuity of existing and future performance and maintenance standards. After investigating available product offerings, the Awarding Authority has elected to prepare proprietary specifications. These products are specified with the notation: "No Substitute."
 - 1. Where "No Substitute" is noted, submittals and substitution requests for other products will not be considered.
- B. Approval of alternate manufacturers and/or products other than those listed as "Scheduled Manufacturer" or "Acceptable Manufacturers" in the individual article for the product category are only to be considered by official substitution request in accordance with section 01 25 00.
- C. Approval of products from manufacturers indicated in "Acceptable Manufacturers" is contingent upon those products providing all functions and features and meeting all requirements of scheduled manufacturer's product.
- D. Where specified hardware is not adaptable to finished shape or size of members requiring hardware, furnish suitable types having same operation and quality as type specified, subject to Architect's approval.

2.2 MATERIALS

- A. Fabrication
 - 1. Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. provide screws according to manufacturer's recognized installation standards for application intended.
 - 2. Finish exposed screws to match hardware finish, or, if exposed in surfaces of other work, to match finish of this other work including prepared for paint surfaces to receive painted finish.

3. Provide concealed fasteners wherever possible for hardware units exposed when door is closed. Coordinate with "Metal Doors and Frames", "Flush Wood Doors", "Stile and Rail Wood Doors" to ensure proper reinforcements. Advise the Architect where visible fasteners, such as thru bolts, are required.
- B. Provide screws, bolts, expansion shields, drop plates and other devices necessary for hardware installation.
1. Where fasteners are exposed to view: Finish to match adjacent door hardware material.
- C. Cable and Connectors:
1. Where scheduled in the hardware sets, provide each item of electrified hardware and wire harnesses with number and gage of wires enough to accommodate electric function of specified hardware.
 2. Provide Molex connectors that plug directly into connectors from harnesses, electric locking and power transfer devices.
 3. Provide through-door wire harness for each electrified locking device installed in a door and wire harness for each electrified hinge, electrified continuous hinge, electrified pivot, and electric power transfer for connection to power supplies.

2.3 HINGES

- A. Manufacturers and Products:
1. Scheduled Manufacturer and Product:
 - a. Ives 5BB series
 2. Acceptable Manufacturers and Products:
 - a. Substitutions by official Division 01 request only
- B. Requirements:
1. Provide hinges conforming to ANSI/BHMA A156.1.
 2. Provide five knuckle, ball bearing hinges.
 3. 1-3/4 inch (44 mm) thick doors, up to and including 36 inches (914 mm) wide:
 - a. Exterior: Standard weight, bronze or stainless steel, 4-1/2 inches (114 mm) high
 - b. Interior: Standard weight, steel, 4-1/2 inches (114 mm) high
 4. 1-3/4 inch (44 mm) thick doors over 36 inches (914 mm) wide:
 - a. Exterior: Heavy weight, bronze/stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
 5. 2 inches or thicker doors:
 - a. Exterior: Heavy weight, bronze or stainless steel, 5 inches (127 mm) high
 - b. Interior: Heavy weight, steel, 5 inches (127 mm) high
 6. Adjust hinge width for door, frame, and wall conditions to allow proper degree of opening.
 7. Provide three hinges per door leaf for doors 90 inches (2286 mm) or less in height, and one additional hinge for each 30 inches (762 mm) of additional door height.
 8. Hinge Pins: Except as otherwise indicated, provide hinge pins as follows:

- a. Steel Hinges: Steel pins
 - b. Non-Ferrous Hinges: Stainless steel pins
 - c. Out-Swinging Exterior Doors: Non-removable pins
 - d. Out-Swinging Interior Lockable Doors: Non-removable pins
 - e. Interior Non-lockable Doors: Non-rising pins
9. Provide hinges with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware. Locate electric hinge at second hinge from bottom or nearest to electrified locking component. Provide mortar guard for each electrified hinge specified.

2.4 CONTINUOUS HINGES

A. Manufacturers:

- 1. Scheduled Manufacturer:
 - a. Ives
- 2. Acceptable Manufacturers:
 - a. Substitutions by official Division 01 request only

B. Requirements:

- 1. Provide aluminum geared continuous hinges conforming to ANSI/BHMA A156.26, Grade 1.
- 2. Provide aluminum geared continuous hinges, where specified in the hardware sets, fabricated from 6063-T6 aluminum.
- 3. Provide split nylon bearings at each hinge knuckle for quiet, smooth, self-lubricating operation.
- 4. Provide hinges capable of supporting door weights up to 450 pounds, and successfully tested for 1,500,000 cycles.
- 5. On fire-rated doors, provide aluminum geared continuous hinges classified for use on rated doors by testing agency acceptable to authority having jurisdiction.
- 6. Provide aluminum geared continuous hinges with electrified option scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
- 7. Provide hinges 1 inch (25 mm) shorter in length than nominal height of door, unless otherwise noted or door details require shorter length and with symmetrical hole pattern.

2.5 ELECTRIC POWER TRANSFER

A. Manufacturers:

- 1. Scheduled Manufacturer and Product:
 - a. Von Duprin EPT-10 CON
- 2. Acceptable Manufacturers and Products:
 - a. Substitutions by official Division 01 request only

B. Requirements:

1. Provide power transfer with electrified options as scheduled in the hardware sets. Provide with number and gage of wires enough to accommodate electric function of specified hardware.
2. Locate electric power transfer per manufacturer's template and UL requirements, unless interference with operation of door or other hardware items.

2.6 MORTISE LOCKS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. Corbin Russwin ML2000 series
2. Acceptable Manufacturers and Products:
 - a. Schlage L9000 series

B. Requirements:

1. Provide mortise locks conforming to ANSI/BHMA A156.13 Series 1000, Grade 1, and UL Listed for 3-hour fire doors.
2. Indicators: Where specified, provide indicator window measuring a minimum 2-inch x 1/2 inch with 180-degree visibility. Provide messages color-coded with full text and/or symbols, as scheduled, for easy visibility.
3. Provide locks manufactured from heavy gauge steel, containing components of steel with a zinc dichromate plating for corrosion resistance.
4. Provide lock case that is multi-function and field reversible for handing without opening case. Cylinders: Refer to "KEYING" article, herein.
5. Provide locks with standard 2-3/4 inches (70 mm) backset with full 3/4 inch (19 mm) throw stainless steel mechanical anti-friction latchbolt. Provide deadbolt with full 1-inch (25 mm) throw, constructed of stainless steel.
6. Provide standard ASA strikes unless extended lip strikes are necessary to protect trim. Provide electrified options as scheduled in the hardware sets. Where scheduled, provide switches and sensors integrated into the locks and latches.
7. Provide motor based electrified locksets that comply with the following requirements:
 - a. Universal input voltage – single chassis accepts 12 or 24VDC to allow for changes in the field without changing lock chassis.
 - b. Fail Safe/Fail Secure – changing mode between electrically locked (fail safe) and electrically unlocked (fail secure) is field selectable without opening the lock case.
 - c. Low maximum current draw – maximum 0.4 amps to allow for multiple locks on a single power supply.
 - d. Low holding current – maximum 0.01 amps to produce minimal heat, eliminate “hot levers” in electrically locked applications, and to provide reliable operation in wood doors that provide minimal ventilation and air flow.
 - e. Connections – provide quick-connect Molex system standard.
8. (KEY OVERRIDE OPTION WHEN XL13-439 IS SPECIFIED IN HARDWARE SETS) Provide locks with a key override feature built into the chassis that allows the outside key to retract the deadbolt and/or latchbolt, overriding the inside thumbturn when it is being held in the locked position.
9. Lever Trim: Solid brass, bronze, or stainless steel, cast or forged in design specified, with wrought roses and external lever spring cages. Provide thru-bolted levers with 2-piece spindles.

- a. Provide levers that return to within 1/2 inch (13 mm) of door face.
- b. Vandlgard: Provide levers with vandal resistant technology for use at heavy traffic or abusive applications.
- c. Lever Design: CSA

2.7 EXIT DEVICES

A. Manufacturers and Products:

- 1. Scheduled Manufacturer and Product:
 - a. Von Duprin 98/35A series
- 2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

- 1. Provide exit devices tested to ANSI/BHMA A156.3 Grade 1 and UL listed for Panic Exit or Fire Exit Hardware.
- 2. Cylinders: Refer to "KEYING" article, herein.
- 3. Provide smooth touchpad type exit devices, fabricated of brass, bronze, stainless steel, or aluminum, plated to standard architectural finishes to match balance of door hardware.
- 4. Touchpad must extend a minimum of one half of door width. No plastic inserts are allowed in touchpads.
- 5. Provide exit devices with deadlatching feature for security and for future addition of alarm kits and/or other electrified requirements.
- 6. Provide exit devices with weather resistant components that can withstand harsh conditions of various climates and corrosive cleaners used in outdoor pool environments.
- 7. Provide flush end caps for exit devices.
- 8. Provide exit devices with manufacturer's approved strikes.
- 9. Provide exit devices cut to door width and height. Install exit devices at height recommended by exit device manufacturer, allowable by governing building codes, and approved by Architect.
- 10. Mount mechanism case flush on face of doors or provide spacers to fill gaps behind devices. Where glass trim or molding projects off face of door, provide glass bead kits.
- 11. Provide cylinder or hex-key dogging as specified at non fire-rated openings.
- 12. Removable Mullions: 2 inches (51 mm) x 3 inches (76 mm) steel tube. Where scheduled as keyed removable mullion, provide type that can be removed by use of a keyed cylinder, which is self-locking when re-installed.
- 13. Provide factory drilled weep holes for exit devices used in full exterior application, highly corrosive areas, and where noted in hardware sets.
- 14. Provide electrified options as scheduled.
- 15. Top latch mounting: double- or single-tab mount for steel doors, face mount for aluminum doors eliminating requirement of tabs, and double tab mount for wood doors.
- 16. Provide exit devices with optional trim designs to match other lever and pull designs used on the project.

2.8 ELECTRIC STRIKES

A. Manufacturers and Products:

MCHENRY COUNTY COLLEGE
 University Center at MCC
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1. Scheduled Manufacturer and Product:
 - a. Von Duprin 6000 Series
 2. Acceptable Manufacturers and Products:
 - a. Substitutions by official Division 01 request only
- B. Requirements:
1. Provide electric strikes designed for use with type of locks shown at each opening.
 2. Provide electric strikes UL Listed as burglary resistant that are tested to a minimum endurance test of 1,000,000 cycles.
 3. Where required, provide electric strikes UL Listed for fire doors and frames.
 4. Provide transformers and rectifiers for each strike as required. Verify voltage with electrical contractor.

2.9 MAGNETIC LOCKS

- A. Manufacturers:
1. Scheduled Manufacturer:
 - a. Security Door Controls
 2. Acceptable Manufacturers:
 - a. Substitutions by official Division 01 request only
- B. Requirements:
1. Provide magnetic locks certified to meet ANSI/BHMA A156.23 classification criteria, UL10C, and UL1034 for burglary-resistant electronic locking mechanisms.
 2. Provide magnetic locks equipped with SPDT Magnetic Bond Sensing device, where specified, to monitor whether enough magnetic holding force exists to ensure adequate locking and SPDT Door Status Monitor device, where specified, to monitor whether door is open or closed. Provide bond sensors fully concealed within electromagnet to resist tampering or damage.
 3. Provide fasteners, mounting brackets, and spacer bars required for mounting and details.
 4. Provide power supply recommended and approved by manufacturer of magnetic locks.
 5. Where magnetic locks are scheduled, provide complete assemblies of controls, switches, power supplies, relays, and parts/material recommended and approved by manufacturer of magnetic locks for each individual leaf. Switches control both doors simultaneously at pairs. Locate controls as directed by Architect.

2.10 PASSIVE INFRARED MOTION SENSORS

- A. Manufacturers and Products:
1. Scheduled Manufacturer and Product:
 - a. Security Door Controls MD-31D Series
 2. Acceptable Manufacturers and Products:
 - a. Substitutions by official Division 01 request only

- B. Requirements:
 - 1. Provide motion sensors as specified in hardware groups.

2.11 PUSHBUTTONS

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Security Door Controls 410 series
 - 2. Acceptable Manufacturers and Products:
 - a. Substitutions by official Division 01 request only
- B. Requirements:
 - 1. Provide push buttons as specified in hardware groups.

2.12 POWER SUPPLIES

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. Schlage/Von Duprin PS900 Series
 - 2. Acceptable Manufacturers and Products:
 - a. Substitutions by official Division 01 request only
- B. Requirements:
 - 1. Provide power supplies approved by manufacturer of supplied electrified hardware.
 - 2. Provide appropriate quantity of power supplies necessary for proper operation of electrified locking components as recommended by manufacturer of electrified locking components with consideration for each electrified component using power supply, location of power supply, and approved wiring diagrams. Locate power supplies as directed by Architect.
 - 3. Provide regulated and filtered 24 VDC power supply, and UL class 2 listed.
 - 4. Provide power supplies with the following features:
 - a. 12/24 VDC Output, field selectable.
 - b. Class 2 Rated power limited output.
 - c. Universal 120-240 VAC input.
 - d. Low voltage DC, regulated and filtered.
 - e. Polarized connector for distribution boards.
 - f. Fused primary input.
 - g. AC input and DC output monitoring circuit w/LED indicators.
 - h. Cover mounted AC Input indication.
 - i. Tested and certified to meet UL294.
 - j. NEMA 1 enclosure.
 - k. Hinged cover w/lock down screws.
 - l. High voltage protective cover.

2.13 CYLINDERS

- A. Manufacturers:
 - 1. Scheduled Manufacturer and Product:
 - a. Corbin Russwin
 - 2. Acceptable Manufacturers and Products:
 - a. No Substitute
- B. Requirements:
 - 1. Provide cylinders/cores to match Owner's existing key system, compliant with ANSI/BHMA A156.5; latest revision; cylinder face finished to match lockset, manufacturer's series as indicated. Refer to "KEYING" article, herein.

2.14 KEYING

- A. Scheduled System:
 - 1. Existing non-factory registered system:
 - a. Provide cylinders/cores keyed into Owner's existing keying system managed by Owner's locksmith, complying with guidelines in ANSI/BHMA A156.28, incorporating decisions made at keying conference.
- B. Requirements:
 - 1. Construction Keying:
 - a. Replaceable Construction Cores.
 - 1) Provide temporary construction cores replaceable by permanent cores, furnished in accordance with the following requirements.
 - a) 3 construction control keys
 - b) 12 construction change (day) keys.
 - 2) Owner or Owner's Representative will replace temporary construction cores with permanent cores.
 - 2. Permanent Keying:
 - a. Provide permanent cylinders/cores keyed by the manufacturer according to the following key system.
 - 1) Master Keying system as directed by the Owner.
 - b. Forward biting list and keys separately from cylinders, by means as directed by Owner. Failure to comply with forwarding requirements will be cause for replacement of cylinders/cores involved at no additional cost to Owner.
 - c. Provide keys with the following features:
 - 1) Material: Nickel silver; minimum thickness of .107-inch (2.3mm)
 - 2) Patent Protection: Keys and blanks protected by one or more utility patent(s).
 - d. Identification:
 - 1) Mark permanent cylinders/cores and keys with applicable blind code for identification. Do not provide blind code marks with actual key cuts.
 - 2) Identification stamping provisions must be approved by the Architect and Owner.
 - 3) Stamp cylinders/cores and keys with Owner's unique key system facility code as established by the manufacturer; key symbol and embossed or stamped with "DO NOT DUPLICATE" along with the "PATENTED" or patent number to enforce the patent protection.

- 4) Failure to comply with stamping requirements will be cause for replacement of keys involved at no additional cost to Owner.
- 5) Forward permanent cylinders/cores to Owner, separately from keys, by means as directed by Owner.
 - e. Quantity: Furnish in the following quantities.
 - 1) Permanent Control Keys: 3.
 - 2) Master Keys: 6.
 - 3) Change (Day) Keys: 3 per cylinder/core that is keyed differently
 - 4) Key Blanks: Quantity as determined in the keying meeting.

2.15 DOOR CLOSERS

A. Manufacturers and Products:

1. Scheduled Manufacturer and Product:
 - a. LCN 4040XP series
2. Acceptable Manufacturers and Products:
 - a. No Substitute

B. Requirements:

1. Provide door closers conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory. ISO 9000 certify closers. Stamp units with date of manufacture code.
2. Provide door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
3. Cylinder Body: 1-1/2-inch (38 mm) diameter piston with 5/8-inch (16 mm) diameter double heat-treated pinion journal. QR code with a direct link to maintenance instructions.
4. Hydraulic Fluid: Fireproof, passing requirements of UL10C, and requiring no seasonal closer adjustment for temperatures ranging from 120 degrees F to -30 degrees F.
5. Spring Power: Continuously adjustable over full range of closer sizes, and providing reduced opening force as required by accessibility codes and standards. Provide snap-on cover clip, with plastic covers, that secures cover to spring tube.
6. Hydraulic Regulation: By tamper-proof, non-critical valves, with separate adjustment for latch speed, general speed, and backcheck. Provide graphically labelled instructions on the closer body adjacent to each adjustment valve. Provide positive stop on reg valve that prevents reg screw from being backed out.
7. Provide closers with solid forged steel main arms and factory assembled heavy-duty forged forearms for parallel arm closers.
8. Pressure Relief Valve (PRV) Technology: Not permitted.
9. Finish for Closer Cylinders, Arms, Adapter Plates, and Metal Covers: Powder coating finish which has been certified to exceed 100 hours salt spray testing as described in ANSI Standard A156.4 and ASTM B117, or has special rust inhibitor (SRI).
10. Provide special templates, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.16 CONCEALED DOOR CLOSERS

- A. Manufacturers and Products:
 - 1. Scheduled Manufacturer and Product:
 - a. CRL
 - 2. Acceptable Manufacturers and Products:
 - a. Substitutions by official Division 01 request only
- B. Requirements:
 - 1. Provide concealed door closers at doors conforming to ANSI/BHMA A156.4 Grade 1 requirements by BHMA certified independent testing laboratory.
 - 2. Provide heavy duty, double-acting closers with single lever arm and roller assembly.
 - 3. Provide closers capable of being mounted in a minimum 1-3/4-inch header.
 - 4. Provide concealed door closers with fully hydraulic, full rack and pinion action with high strength cast iron cylinder, and full complement bearings at shaft.
 - 5. Cylinder Body: 1-1/8-inch (29 mm) piston diameter, with 5/8-inch (16 mm) diameter heat-treated pinion journal.
 - 6. Provide all-weather hydraulic fluid, fireproof, passing requirements of UL10C.
 - 7. Pressure Relief Valve (PRV) Technology: Not permitted.
 - 8. Provide special template, drop plates, mounting brackets, or adapters for arms as required for details, overhead stops, and other door hardware items interfering with closer mounting.

2.17 DOOR TRIM

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:
 - a. Substitutions by official Division 01 request only
- B. Requirements:
 - 1. Provide push plates, push bars, pull plates, pulls, and hands-free reversible door pulls with diameter and length as scheduled.

2.18 PROTECTION PLATES

- A. Manufacturers:
 - 1. Scheduled Manufacturer:
 - a. Ives
 - 2. Acceptable Manufacturers:
 - a. Substitutions by official Division 01 request only
- B. Requirements:

1. Provide protection plates with a minimum of 0.050 inch (1 mm) thick, beveled four edges as scheduled. Furnish with sheet metal or wood screws, finished to match plates.
2. Sizes plates 2 inches (51 mm) less width of door on single doors, pairs of doors with a mullion, and doors with edge guards. Size plates 1 inch (25 mm) less width of door on pairs without a mullion or edge guards.
3. At fire rated doors, provide protection plates over 16 inches high with UL label.

2.19 OVERHEAD STOPS AND OVERHEAD STOP/HOLDERS

A. Manufacturers:

1. Scheduled Manufacturers:
 - a. Glynn-Johnson
2. Acceptable Manufacturers:
 - a. Substitutions by official Division 01 request only

B. Requirements:

1. Provide overhead stop at any door where conditions do not allow for a wall stop or floor stop presents tripping hazard.

2.20 DOOR STOPS AND HOLDERS

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Ives
2. Acceptable Manufacturers:
 - a. Substitutions by official Division 01 request only

B. Provide door stops at each door leaf:

1. Provide wall stops wherever possible. Provide concave type where lockset has a push button or thumbturn.
2. Where a wall stop cannot be used, provide universal floor stops.
3. Where wall or floor stop cannot be used, provide overhead stop.
4. Provide roller bumper where doors open into each other and overhead stop cannot be used.

2.21 THRESHOLDS, SEALS, DOOR SWEEPS, AUTOMATIC DOOR BOTTOMS, AND GASKETING

A. Manufacturers:

1. Scheduled Manufacturer:
 - a. Zero International
2. Acceptable Manufacturers:
 - a. Substitutions by official Division 01 request only

B. Requirements:

1. Provide thresholds, weather-stripping, and gasketing systems as specified and per architectural details. Match finish of other items.
2. Smoke- and Draft-Control Door Assemblies: Where smoke- and draft-control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
3. Provide door sweeps, seals, astragals, and auto door bottoms only of type where resilient or flexible seal strip is easily replaceable and readily available.
4. Size thresholds 1/2 inch (13 mm) high by 5 inches (127 mm) wide by door width unless otherwise specified in the hardware sets or detailed in the drawings.

2.22 FINISHES

A. FINISH: BHMA 626/652 (US26D); EXCEPT:

1. Aluminum Geared Continuous Hinges: BHMA 628 (US28)
2. Push Plates, Pulls, and Push Bars: BHMA 630 (US32D)
3. Protection Plates: BHMA 630 (US32D)
4. Overhead Stops and Holders: BHMA 630 (US32D)
5. Door Closers: Powder Coat to Match
6. Wall Stops: BHMA 630 (US32D)
7. Latch Protectors: BHMA 630 (US32D)
8. Weatherstripping: Clear Anodized Aluminum
9. Thresholds: Mill Finish Aluminum

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to installation of hardware, examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance. Verify doors, frames, and walls have been properly reinforced for hardware installation.
- B. Examine roughing-in for electrical power systems to verify actual locations of wiring connections before electrified door hardware installation.
- C. Submit a list of deficiencies in writing and proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Mount door hardware units at heights to comply with the following, unless otherwise indicated or required to comply with governing regulations.
 1. Standard Steel Doors and Frames: ANSI/SDI A250.8.
 2. Custom Steel Doors and Frames: HMMA 831.
 3. Interior Architectural Wood Flush Doors: ANSI/WDMA I.S. 1A
 4. Installation Guide for Doors and Hardware: DHI TDH-007-20

- B. Install door hardware in accordance with NFPA 80, NFPA 101 and provide post-install inspection, testing as specified in section 1.03.E unless otherwise required to comply with governing regulations.
- C. Install each hardware item in compliance with manufacturer's instructions and recommendations, using only fasteners provided by manufacturer.
- D. Do not install surface mounted items until finishes have been completed on substrate. Protect all installed hardware during painting.
- E. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.
- F. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors according to industry standards.
- G. Install operating parts so they move freely and smoothly without binding, sticking, or excessive clearance.
- H. Hinges: Install types and in quantities indicated in door hardware schedule but not fewer than quantity recommended by manufacturer for application indicated.
- I. Lock Cylinders:
 - 1. Install construction cores to secure building and areas during construction period.
 - 2. Replace construction cores with permanent cores as indicated in keying section.
 - 3. Furnish permanent cores to Owner for installation.
- J. Wiring: Coordinate with Division 26, ELECTRICAL and Division 28 ELECTRONIC SAFETY AND SECURITY sections for:
 - 1. Conduit, junction boxes and wire pulls.
 - 2. Connections to and from power supplies to electrified hardware.
 - 3. Connections to fire/smoke alarm system and smoke evacuation system.
 - 4. Connection of wire to door position switches and wire runs to central room or area, as directed by Architect.
 - 5. Connections to panel interface modules, controllers, and gateways.
 - 6. Testing and labeling wires with Architect's opening number.
- K. Key Control System: Tag keys and place them on markers and hooks in key control system cabinet, as determined by final keying schedule.
- L. Door Closers & Auto Operators: Mount closers/operators on room side of corridor doors, inside of exterior doors, and stair side of stairway doors from corridors. Mount closers/operators so they are not visible in corridors, lobbies and other public spaces unless approved by Architect.
- M. Overhead Stops/holders: Mount overhead stops/holders on room side of corridor doors, inside of exterior doors, and stair side of stairway doors.
- N. Power Supplies: Locate power supplies as indicated or, if not indicated, above accessible ceilings or in equipment room, or alternate location as directed by Architect.
- O. Thresholds: Set thresholds in full bed of sealant complying with requirements specified in Division 07 Section "Joint Sealants."

- P. Stops: Provide floor stops for doors unless wall or other type stops are indicated in door hardware schedule. Do not mount floor stops where they may impede traffic or present tripping hazard.
- Q. Perimeter Gasketing: Apply to head and jamb, forming seal between door and frame.
- R. Meeting Stile Gasketing: Fasten to meeting stiles, forming seal when doors are closed.
- S. Door Bottoms and Sweeps: Apply to bottom of door, forming seal with threshold when door is closed.

3.3 ADJUSTING

- A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.
 - 1. Spring Hinges: Adjust to achieve positive latching when door can close freely from an open position of 30 degrees.
 - 2. Electric Strikes: Adjust horizontal and vertical alignment of keeper to properly engage lock bolt.
 - 3. Door Closers: Adjust sweep period to comply with accessibility requirements and requirements of authorities having jurisdiction.
- B. Occupancy Adjustment: Approximately three to six months after date of Substantial Completion, examine and readjust each item of door hardware, including adjusting operating forces, as necessary to ensure function of doors and door hardware.

3.4 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door hardware installation.
- B. Clean operating items per manufacturer's instructions to restore proper function and finish.
- C. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of Substantial Completion.

3.5 DOOR HARDWARE SCHEDULE

- A. The intent of the hardware specification is to specify the hardware for interior and exterior doors, and to establish a type, continuity, and standard of quality. However, it is the door hardware supplier's responsibility to thoroughly review existing conditions, schedules, specifications, drawings, and other Contract Documents to verify the suitability of the hardware specified.
- B. Discrepancies, conflicting hardware, and missing items are to be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application.

C. Hardware items are referenced in the following hardware schedule. Refer to the above specifications for special features, options, cylinders/keying, and other requirements.

D. Hardware Sets:

Hardware Group No. 01

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8303 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE

Hardware Group No. 02

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	PRIVACY LOCK W/ IND	ML2030 CSA ML190 V20	626	C-R
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE

Hardware Group No. 03

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	HOTEL LOCK W/ IND	ML2029 CSA CT6D ML190 V20	626	C-R
1	EA	LFIC PERMANENT CORE	KEYED INTO EXISTING SYSTEM	626	C-R
1	EA	ELECTRIC STRIKE	6216 FSE CON 12/16/24/28 VAC/VDC	630	VON
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O

CREDENTIAL READER DEVICE IS TO RELEASE THE ELECTRIC STRIKE ALLOWING THE DOOR TO BE OPENED. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED POWER AND WIRING TO THE ELECTRIC STRIKE.

Hardware Group No. 04

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ML2057 CSA CT6D	626	C-R
1	EA	LFIC PERMANENT CORE	KEYED INTO EXISTING SYSTEM	626	C-R
1	EA	ELECTRIC STRIKE	6211AL FSE CON 12/16/24/28 VAC/VDC	630	VON
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O

CREDENTIAL READER DEVICE IS TO RELEASE THE ELECTRIC STRIKE ALLOWING THE DOOR TO BE OPENED. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED POWER AND WIRING TO THE ELECTRIC STRIKE.

Hardware Group No. 05

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ML2057 CSA CT6D	626	C-R
1	EA	LFIC PERMANENT CORE	KEYED INTO EXISTING SYSTEM	626	C-R
1	EA	ELECTRIC STRIKE	6211AL FSE CON 12/16/24/28 VAC/VDC	630	VON
1	EA	OH STOP	100S	630	GLY
1	EA	SURFACE CLOSER	4040XP REG ST-1630	689	LCN
1	EA	TOP JAMB MTG PLATE	4040XP-18TJ	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O

CREDENTIAL READER DEVICE IS TO RELEASE THE ELECTRIC STRIKE ALLOWING THE DOOR TO BE OPENED. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED POWER AND WIRING TO THE ELECTRIC STRIKE.

Hardware Group No. 06

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	STOREROOM LOCK	ML2057 CSA CT6D	626	C-R
1	EA	LFIC PERMANENT CORE	KEYED INTO EXISTING SYSTEM	626	C-R
1	EA	ELECTRIC STRIKE	6211AL FSE CON 12/16/24/28 VAC/VDC	630	VON
1	EA	SURFACE CLOSER	4040XP SCUSH	689	LCN
1	EA	CUSH SHOE SUPPORT	4040XP-30	689	LCN
1	EA	BLADE STOP SPACER	4040XP-61	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O

CREDENTIAL READER DEVICE IS TO RELEASE THE ELECTRIC STRIKE ALLOWING THE DOOR TO BE OPENED. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED POWER AND WIRING TO THE ELECTRIC STRIKE.

Hardware Group No. 07

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	STOREROOM LOCK	ML2057 CSA CT6D	626	C-R
1	EA	LFIC PERMANENT CORE	KEYED INTO EXISTING SYSTEM	626	C-R
1	EA	ELECTRIC STRIKE	6211AL FSE CON 12/16/24/28 VAC/VDC	630	VON
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1		SOUND GASKETING	BY FRAME MANUFACTURER HEAD AND JAMB		B/O
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O

CREDENTIAL READER DEVICE IS TO RELEASE THE ELECTRIC STRIKE ALLOWING THE DOOR TO BE OPENED. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED POWER AND WIRING TO THE ELECTRIC STRIKE.

Hardware Group No. 08

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	CONT. HINGE	112XY EPT	628	IVE
2	EA	POWER TRANSFER	EPT10 CON	689	VON
1	EA	ELEC PANIC HARDWARE	QEL-9847-EO-LBR-CON 24 VDC LHR	626	VON
1	EA	ELEC PANIC HARDWARE	QEL-9847-NL-OP-LBR-110MD-CON 24 VDC RHR	626	VON
1	EA	LFIC RIM CYLINDER	CT6D	626	C-R
1	EA	LFIC PERMANENT CORE	KEYED INTO EXISTING SYSTEM	626	C-R
2	EA	90 DEG OFFSET PULL	8190EZHD 10" O	630-316	IVE
2	EA	OH STOP	100S	630	GLY
2	EA	SURFACE CLOSER	4040XP EDA	689	LCN
2	EA	BLADE STOP SPACER	4040XP-61	689	LCN
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O
1	EA	POWER SUPPLY	PS902 (CALCULATE AND PROVIDE MINIMUM POWER SUPPLIES REQUIRED FOR PROJECT)	LGR	SCE

CREDENTIAL READER DEVICE IS TO RETRACT LATCHES ALLOWING THE DOORS TO BE OPENED. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:

CREDENTIAL READER DEVICE.

REQUIRED WIRING TO THE PS902 POWER SUPPLY (WHICH POWERS THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE), THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE ITSELF.

Hardware Group No. 09

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY LHR	628	IVE
1	EA	CONT. HINGE	224XY EPT RHR	628	IVE
1	EA	POWER TRANSFER	EPT10 CON RHR	689	VON
1	EA	PANIC HARDWARE	LD-9847-EO LHR	626	VON
1	EA	ELEC PANIC HARDWARE	QEL-9847-L-NL-07-CON 24 VDC RHR	626	VON
1	EA	LFIC RIM CYLINDER	CT6D	626	C-R
1	EA	LFIC PERMANENT CORE	KEYED INTO EXISTING SYSTEM	626	C-R
2	EA	SURFACE CLOSER	4040XP SHCUSH	689	LCN
2	EA	BLADE STOP SPACER	4040XP-61	689	LCN
2	EA	KICK PLATE	8400 10" X 1" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	MEETING STILE	8193AA-S	AA	ZER
1	EA	WEATHER STRIPPING	BY FRAME MANUFACTURER HEAD AND JAMB		B/O
2	EA	DOOR SWEEP	39A	A	ZER
1	EA	THRESHOLD	566A-V3-223	A	ZER
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O
1	EA	POWER SUPPLY	PS902 (CALCULATE AND PROVIDE MINIMUM POWER SUPPLIES REQUIRED FOR PROJECT)	LGR	SCE

CREDENTIAL READER DEVICE IS TO RETRACT LATCH ALLOWING THE DOORS TO BE OPENED. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:

CREDENTIAL READER DEVICE.

REQUIRED WIRING TO THE PS902 POWER SUPPLY (WHICH POWERS THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE), THE QEL ELECTRIC LATCH RETRACTION FEATURE INSIDE THE PANIC HARDWARE ITSELF.

Hardware Group No. 10

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	PANIC HARDWARE	LD-98-L-NL-07	626	VON
1	EA	LFIC RIM CYLINDER	CT6D	626	C-R
1	EA	LFIC PERMANENT CORE	KEYED INTO EXISTING SYSTEM	626	C-R
1	EA	ELECTRIC STRIKE	6111 FSE CON BSS 12/24 VAC/VDC	630	VON
1	EA	SURFACE CLOSER	4040XP RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CVX	630	IVE
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O

CREDENTIAL READER DEVICE IS TO RELEASE THE ELECTRIC STRIKE ALLOWING THE DOOR TO BE OPENED. IMMEDIATE EGRESS IS ALWAYS AVAILABLE. KEYED INGRESS IS ALSO AVAILABLE.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED POWER AND WIRING TO THE ELECTRIC STRIKE.

Hardware Group No. 11

Provide each PR door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
2	EA	TOP DOOR PATCH AND PIVOT	AS REQ.	630	CRL
2	EA	BOTTOM DOOR PATCH	AS REQ.	630	CRL
2	EA	PUSH/PULL BAR	9190EZHD-10"-PQ	630-316	IVE
2	EA	CONCEALED IN FLOOR CLOSER AND COVER PLATE	8532 AND 85CPBS	630	CRL
2	EA	FLOOR STOP	FS410	626	IVE

NOTE: CONFIRM GLASS THICKNESS WITH GLASS DOOR SUPPLIER.
NOTE: HEADER CHANNEL AND ALL OTHER COMPONENTS REQUIRED TO MAKE THE SPECIFIED HARDWARE WORK PROPERLY IS BY THE GLASS DOOR SUPPLIER.

Hardware Group No. 12

Provide each SGL door(s) with the following:

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	BOTTOM DOOR PATCH AND PIVOT	AS REQ.	630	CRL
1	EA	TOP DOOR PATCH	AS REQ.	630	CRL
1	EA	REQ TO EXIT PUSH BUTTON	413MN	630	SDC
1	EA	MAG LOCK	SDC EMLOCK 1500 BRACKETS AS REQ.	AA	SDC
1	EA	LONG DOOR PULL	PR 9266F 54" P	630	IVE
1	EA	ADA CONCEALED IN HEAD CLOSER	9970 W/ 105 DEGREE HOLD OPEN		CRL
1	EA	CREDENTIAL READER	BY DIVISION 28		B/O
1	EA	MOTION SENSOR	MD-31D	WHT	SDC

NOTE: CONFIRM GLASS THICKNESS WITH GLASS DOOR SUPPLIER.

NOTE: HEADER CHANNEL AND ALL OTHER COMPONENTS REQUIRED TO MAKE THE SPECIFIED HARDWARE WORK PROPERLY IS BY THE GLASS DOOR SUPPLIER.

CREDENTIAL READER DEVICE IS TO RELEASE THE MAGNETIC LOCK ALLOWING THE DOOR TO BE OPENED. IMMEDIATE EGRESS IS ALWAYS AVAILABLE USING THE MOTION SENSOR OR THE NON-FIRE RELATED EMERGENCY RELEASE BUTTON.

THE MAGNETIC LOCKS ARE TO BE TIED TO THE FIRE ALARM SYSTEM.

THE NON-FIRE RELATED EMERGENCY RELEASE BUTTON IS TO BE WIRED DIRECTLY BETWEEN THE POWER SUPPLY FOR THE MAGNETIC LOCKS AND THE MAGNETIC LOCKS THEMSELVES.

ITEMS TO BE PROVIDED BY THE DIVISION 28 SUPPLIER:
CREDENTIAL READER DEVICE.
REQUIRED POWER AND WIRING TO THE MAGNETIC LOCK.
WIRING FOR THE PUSH BUTTON AND MOTION SENSOR.

END OF SECTION 08 71 00

SECTION 10 26 00 - WALL AND DOOR PROTECTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Corner guards. (CG-x)

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 - 1. Include construction details, material descriptions, impact strength, dimensions of individual components and profiles, and finishes.
 - 2. Include fire ratings of units recessed in fire-rated walls and listings for door protection items attached to fire-rated doors.
- B. Shop Drawings: For each type of wall and door protection showing locations and extent.
 - 1. Include plans, elevations, sections, and attachment details.
- C. Samples for Verification: For each type of exposed finish on the following products, prepared on Samples of size indicated below:
 - 1. Corner Guards: 12 inches long. Include example top caps.

1.4 INFORMATIONAL SUBMITTALS

- A. Material Certificates: For each type of exposed plastic material.
- B. Sample Warranty: For special warranty.

1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For each type of wall and door protection product to include in maintenance manuals.

1. Include recommended methods and frequency of maintenance for maintaining best condition of plastic covers under anticipated traffic and use conditions. Include precautions against using cleaning materials and methods that may be detrimental to finishes and performance.

1.6 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Corner-Guard Covers: Full-size plastic covers of maximum length equal to 2 percent of each type, color, and texture of cover installed, but no fewer than two, 48-inch- long units.
 2. Mounting and Accessory Components: Amounts proportional to the quantities of extra materials. Package mounting and accessory components with each extra material.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store wall and door protection in original undamaged packages and containers inside well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.
 1. Maintain room temperature within storage area at not less than 70 deg F during the period plastic materials are stored.
 2. Keep plastic materials out of direct sunlight.
 3. Store plastic wall- and door-protection components for a minimum of 72 hours, or until plastic material attains a minimum room temperature of 70 deg F.
 - a. Store corner-guard covers in a vertical position.

1.8 WARRANTY

- A. Special Warranty: Manufacturer agrees to repair or replace components of wall- and door-protection units that fail in materials or workmanship within specified warranty period.
 1. Failures include, but are not limited to, the following:
 - a. Structural failures including detachment of components from each other or from the substrates, delamination, and permanent deformation beyond normal use.
 - b. Deterioration of metals, metal finishes, plastics, and other materials beyond normal use.

2. Warranty Period: Five years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Source Limitations: Obtain wall- and door-protection products of each type from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Surface Burning Characteristics: Comply with ASTM E 84 or UL 723; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
 1. Flame-Spread Index: 25 or less.
 2. Smoke-Developed Index: 450 or less.

2.3 CORNER GUARDS

- A. Surface-Mounted, Opaque-Plastic Corner Guards (CG-x): Fabricated as one piece from PVC-free plastic; with formed edges; fabricated with 90- or 135-degree turn to match wall condition.
- B. See Legends on 'Finish Plan' drawings for product information.
 1. Wing Size: Nominal 3/4 by 3/4 inch.
 2. Mounting: Adhesive.
 3. Color and Texture: Match Architect's sample.

2.4 MATERIALS

- A. Plastic Materials: Chemical- and stain-resistant, high-impact-resistant plastic with integral color throughout; extruded and sheet material as required, thickness as indicated.
- B. Adhesive: As recommended by protection product manufacturer.
 1. Adhesives shall have a VOC content of 70 g/L or less.

2.5 FABRICATION

- A. Fabricate wall and door protection according to requirements indicated for design, performance, dimensions, and member sizes, including thicknesses of components.

- B. Quality: Fabricate components with uniformly tight seams and joints and with exposed edges rolled. Provide surfaces free of wrinkles, chips, dents, uneven coloration, and other imperfections. Fabricate members and fittings to produce flush, smooth, and rigid hairline joints.

2.6 FINISHES

- A. Protect finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and wall areas, with Installer present, for compliance with requirements for installation tolerances, fire rating, and other conditions affecting performance of the Work.
- B. Examine walls to which wall and door protection will be attached for blocking, grounds, and other solid backing that have been installed in the locations required for secure attachment of support fasteners.
 - 1. For wall and door protection attached with adhesive, verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Complete finishing operations, including painting, before installing wall and door protection.
- B. Before installation, clean substrate to remove dust, debris, and loose particles.

3.3 INSTALLATION

- A. Installation Quality: Install wall and door protection according to manufacturer's written instructions, level, plumb, and true to line without distortions. Do not use materials with chips, cracks, voids, stains, or other defects that might be visible in the finished Work.

- B. Mounting Heights: Install wall and door protection in locations and at mounting heights indicated on Drawings.
- C. Accessories: Provide splices, mounting hardware, anchors, trim, joint moldings, and other accessories required for a complete installation.

3.4 CLEANING

- A. Immediately after completion of installation, clean plastic covers and accessories using a standard ammonia-based household cleaning agent.
- B. Remove excess adhesive using methods and materials recommended in writing by manufacturer.

END OF SECTION 10 26 00

SECTION 27 41 16 - AUDIOVISUAL SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, Including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
 - 1. Ceiling Speakers.
 - 2. Projector Screens.
 - 3. Projector Mounts.

1.3 REGULATORY REQUIREMENTS

- A. 2021 International Building Code; as Amended by the City of Woodstock.
- B. 2021 International Mechanical Code; as Amended by the City of Woodstock.
- C. 2021 International Fire Code; as Amended by the City of Woodstock.
- D. 2021 International Fuel Gas Code.
- E. 2021 International Existing Building Code.
- F. 2021 International Property Maintenance Code.
- G. 2020 National Electrical Code; as Amended by the City of Woodstock.
- H. Illinois Energy Conservation Code, Current Edition.
- I. Illinois State Plumbing Code, Current Edition.
- J. Illinois Accessibility Code, Current Edition.
- K. 2016 NFPA 72, National Fire Alarm Code.
- L. Products: Listed and classified by Underwriter's Laboratories, Inc. as suitable for the purpose specified and indicated.

1.4 SUBMITTALS

- A. See Division 01 for project requirements.
- B. Product Data: Submit manufacturer's catalog information showing dimensions, colors, and configurations.

1.5 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing products specified in this section with minimum three years documented experience.

PART 2 - PRODUCTS

2.1 SYSTEM DESCRIPTIONS

- A. Provide ceiling mounted audio-visual speakers and associated wiring to Owner provided amplifier.
- B. Provide ceiling mounted, recessed, manual-operated projector screen in the following spaces:
 - 1. Classroom 125.
 - 2. Classroom 130.
 - 3. Classroom 137.
 - 4. Conference 105A.
 - 5. Conference 150B.
 - 6. Classroom 147.
 - 7. Classroom 148.
 - 8. Classroom 149.
- C. Provide ceiling mounted enclosure as specified on drawings.

2.2 CEILING SPEAKERS

- A. 6.5" Coaxial In-Ceiling Speaker with 32-Watt 70V/100V Transformer.
 - 1. Manufacturers:
 - a. Atlas Sound #FAP63T-W.
- B. Cabling shall be UL-Listed, 12 AWG, stranded copper, two-conductor, shielded, and plenum-rated (regardless of the plenum rating of the space).
 - 1. Manufacturers:
 - a. West Penn.
 - b. Belden.

2.3 MANUALLY OPERATED PROJECTION SCREENS

- A. Screen Operation: Manually operated, retractable projection screen mounted on ball bearing rigid steel spring roller with controlled screen return (CSR) mechanism.
 - 1. Form screen bottom into pocket holding tubular metal slat with attached steel pull bail.
 - 2. Protect slat ends with heavy-duty plastic end caps.
 - 3. Include 6 feet pull cord.
- B. Screen Mounting Type: Recessed ceiling mounted with screen case.
- C. Screen Case:
 - 1. Material:
 - a. 21 gauge steel.
 - b. Case is designed to receive mounting hardware and is sized to suit projection screen.

2. Design: Flat-backed case with heavy duty plastic end caps concealing roller ends with steel inner plates to support roller. End caps to form sturdy brackets for wall or ceiling installations.
 3. Include built-in bumper stops to prevent slat wedging into case.
 4. Length: 96 inches.
 5. Finish: Powder coated white.
- D. Screen Size:
1. Viewing Area: H 60 inches × W 96 inches.
- E. Manufacturers:
1. Da-Lite Model C #36441.

2.4 PROJECTOR MOUNTS

- A. Attachment of mounting device to projector shall not require modification of projector.
- B. Support from ceiling projector box, not ceiling grid, per manufacturer instructions.
- C. Manufacturers: Chief, Peerless, Premier Mounts.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Coordinate locations and sizes of junction boxes, outlets, and conduit. Field verify compliance with the construction documents.
- B. Carefully inspect areas where equipment will be installed. Notify the Architect of any conditions that would adversely affect the installation and subsequent operation of the system.
 1. Repeat inspection on a regular basis to ensure ongoing work by other trades does not pose a conflict to Contractor's pending work.

3.2 COORDINATION

- A. Coordinate projection screen placement with other ceiling and wall mounted components.

3.3 INSTALLATION

- A. General
 1. Install system in accordance with NFPA 70 and other applicable codes. Install equipment in accordance with manufacturer's written instructions.
 2. Contractor shall demonstrate a reasonable standard of care. Installation shall be rendered in a workmanlike manner observing direction set forth herein as well as industry standard best practices.
 3. In addition to any spare cabling shown, utilize industry best practice to pull additional spare cabling in conduit where logical. Neatly bundle a usable length of cable at each end of each spare circuit. All spare circuits shall be labeled and noted on the field drawings for inclusion into the record drawings.

4. Furnish all equipment with factory finish where possible using the standard available factory color(s) as selected by the Architect. Notify the Architect regarding color options of relevant equipment prior to ordering equipment from each manufacturer.
5. Support cables above accessible ceilings to keep from resting on ceiling tiles. Install bridal rings to support cables from structure.
6. Do not secure cables with permanent cable ties. Do not tighten cable bundles in such a way as to cause jacket deformation or damage.
7. Re-terminate and re-test any cables or pairs of cables failing end-to-end testing requirements. Replace any faulty cables/pairs or termination devices. Remove all defective cables completely from pathways.

B. Projector Screen

1. Install projection screens in accordance with reviewed shop drawings at locations and heights indicated.
 - a. Verify locations with Owner/Architect prior to installation.
 - b. Suspend screen from roof structure.
2. Install screen housing in conjunction with installation of suspended ceiling system.
3. Securely install screens plumb and level to supporting substrate.

3.4 CABLE MANAGEMENT AND TERMINATION

A. Employ cable management and installation techniques to fulfill ANSI/INFOCOMM 10:2013, 9.4 (ANS2013-12-20) "Cable Management, Termination, and Labeling Reference Verification Items" as a minimum standard with the additional requirements as described in this paragraph.

B. General

1. Do not violate the minimum cable bend radius as specified by the cable manufacturer.
2. Dress cables so terminations are free from stress due to gravity acting on the cabling. Use cable supports as required depending on the size and stiffness of the cable.
3. Terminate cables with sufficient service loop to allow at least one re-termination without having to open a cable bundle or pathway.
4. All circuits, including various audio signal levels, shall be separated according to function. Where audio and video circuits are installed in conduit or other raceway, separate conduits are required for the various circuit functions.
5. Where circuits are exposed in the equipment racks or large junction or pull boxes, circuits shall be bundled according to function.
6. All solder connections shall be made with soldering iron and rosin core solder. All solder connections shall be checked for "cold" solder joints.
7. If equipment is removed or replaced for service, ensure the proper cable termination points are apparent when the equipment is re-installed.

C. Splicing, Paralleling, and Extension

1. Audiovisual cables shall not be spliced.

END OF SECTION 27 41 16



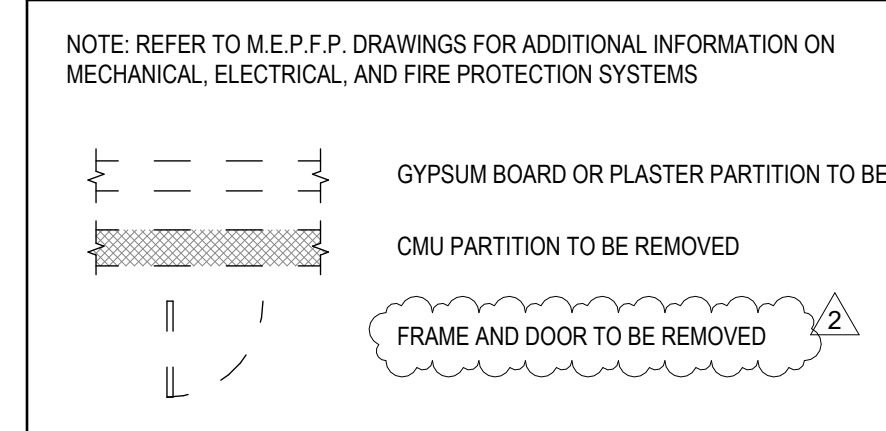
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 DKA PROJECT NO: 22-050

DEMO FLOOR PLAN SYMBOLS LEGEND:

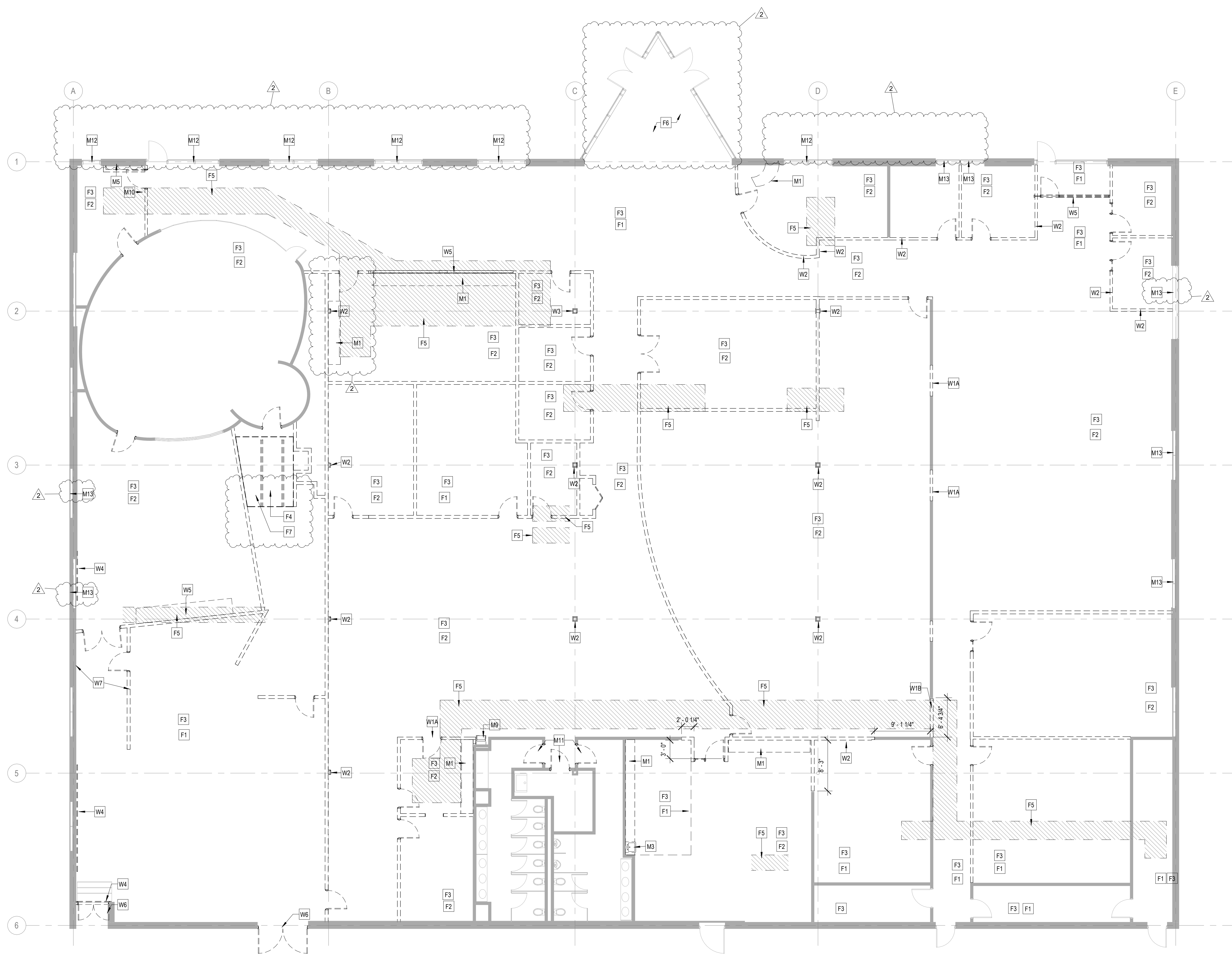


DEMO PLAN GENERAL NOTES:

- PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILING DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
- REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
- DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
- WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED. TO DESIGN AND PREPARE RELATED DRAWINGS.
- (NOT USED)
- EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
- REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
- REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL VOIDS AS REQUIRED.
- REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
- NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCBs OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
- ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER'S APPROVAL.
- REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES.
- (NOT USED)
- ALL LOOSE FURNITURE, EQUIPMENT AND MISC. ITEMS REMAINING IN THE SPACE AFTER THE AWARD OF CONTRACT SHALL BE CONSIDERED PART OF THE DEMOLITION UNLESS OTHERWISE NOTED BY THE OWNER VIA WALKTHROUGH OR TAGS LEFT ON SITE. CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF ALL REMAINING LOOSE ITEMS.

DEMO PLAN REFERENCED NOTES:

- FLOOR DEMOLITION KEYED NOTES**
- F1 REMOVE WALL BASE, RESILIENT TILE FLOORING AND SUBSTRATE ADHESIVE COMPLETE.
 - F2 REMOVE WALL BASE, CARPETING AND SUBSTRATE ADHESIVE COMPLETE.
 - F3 REMOVE WALL BASE COMPLETE.
 - F4 REMOVE METAL GRAVE AND DRAININGS COMPLETE. PREP FLOOR SLAB DEPRESSION AND INFILL WITH CONCRETE TO BE FLUSH WITH ADJACENT FLOOR SLABS.
 - F5 HATCH INDICATES PROPOSED AREA OF SLAB REMOVAL AS REQ. FOR PLUMBING ELECTRICAL WORK. BACKFILL AS REQUIRED AND INFILL PER DETAIL BAS-01.
 - F6 REMOVE WALL BASE, TILE FLOORING COMPLETE.
 - F7 REMOVE STEEL PLATE FLOORING COMPLETE.
- WALL DEMOLITION KEYED NOTES**
- W1 REMOVE GYP BD PARTITION AS REQUIRED FOR NEW OPENING.
 - W2 REMOVE GYP BD PARTITION TO EXTENTS SHOWN.
 - W3 REMOVE AND SALVAGE DOOR, FRAME, AND HARDWARE FOR RE-USE IN NEW WORK.
 - W4 REMOVE FURRING AND INFILL FROM EXISTING WINDOW COMPLETE. REPAIR/TOUCH UP WINDOW AS REQ. FOR NEW WORK.
 - W5 REMOVE STOREFRONT SYSTEM AND MTL STUD PARTITION ABOVE COMPLETE.
 - W6 REMOVE EXTERIOR DOOR/FRAME COMPLETE. PREP ROUGH OPENING FOR NEW WORK.
 - W7 REMOVE METAL PANEL WALL SYSTEM COMPLETE.
- CEILING DEMOLITION KEYED NOTES**
- C1 REMOVE SECOND UPPER GYP CEILING INSTALLED ABOVE EXISTING SAT CEILING / GYP SOFFITS COMPLETE.
 - C2 REMOVE GYP BD CEILINGS AND BULKHEAD COMPLETE.
 - C2A REMOVE GYP. BD. CEILING TO EXTENTS SHOWN.
 - C2B EXISTING GYP. BD. CEILING TO REMAIN REMOVE EXISTING RECESSED LIGHT FIXTURES COMPLETE AND PREP OPENING AS REQUIRED FOR NEW LIGHT FIXTURES.
 - C3A REMOVE ACOUSTIC CEILING TILE SYSTEM TO EXTENTS SHOWN INCLUDING 3" BATT INSULATION COMPLETE.
 - C3B EXISTING CEILING TILE SYSTEM TO REMAIN.
 - C4 REMOVE PRIVACY CURTAINS AND ASSOCIATED TRACK.
 - C5 CURVED GYP BD. CLOUD CEILING- REMOVE EXISTING RECESSED LIGHT FIXTURES COMPLETE AND PREP OPENING AS REQ. FOR NEW LIGHT FIXTURES REMOVE.
 - C6 CLOUD CEILING SYSTEM TO BE REMOVED COMPLETE.
 - C7 REMOVE PORTION OF EXISTING GYP BD. CEILING AS REQUIRED TO ACCOMMODATE HVAC WORK SEE HVAC DRAWINGS.
- MISCELLANEOUS DEMOLITION KEYED NOTES**
- M1 REMOVE COUNTERTOP AND BASE CABINETS COMPLETE.
 - M2 REMOVE UPPER CABINETS/GOGGLE COMPLETE.
 - M3 REMOVE SINK AND ASSOCIATED UTILITIES COMPLETE.
 - M4 REMOVE DISPLAY BOARD COMPLETE.
 - M5 REMOVE FULL HEIGHT CABINETS COMPLETE.
 - M6 REMOVE WALL MOUNTED SHELVES COMPLETE.
 - M7 REMOVE WATER SHUT OFF VALVE AND ASSOCIATED PIPING COMPLETE (REFER TO CIVIL AND PLUMBING)
 - M8 (NOT USED)
 - M9 REMOVE DRINKING FOUNTAIN AND ASSOCIATED PLUMBING COMPLETE. FOR RE-LOCATION IN NEW WORK.
 - M10 REMOVE TECHNOLOGY RACK COMPLETE (REFER TO TECH)
 - M11 REMOVE DOOR, FRAME EXISTING TO REMAIN.
 - M12 REMOVE FILM ON EXISTING WINDOWS COMPLETE.
 - M13 REMOVE WINDOW BLINDS COMPLETE.
- *PROTECT ALL ITEMS NOTED BELOW THROUGH-OUT DEMOLITION AND NEW CONSTRUCTION.
 **REMOVE AND REINSTALL AS REQUIRED FOR NEW WORK.



1 DEMOLITION FLOOR PLAN
 1/8" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23
ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

SHEET TITLE:
DEMOLITION PLAN

SHEET NUMBER:
AD1.10



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 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23
ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #5	10/6/23

SHEET TITLE:
DEMOLITION RCP

SHEET NUMBER:

AD2.10

10/6/2023 2:33:11 PM

DEMO RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

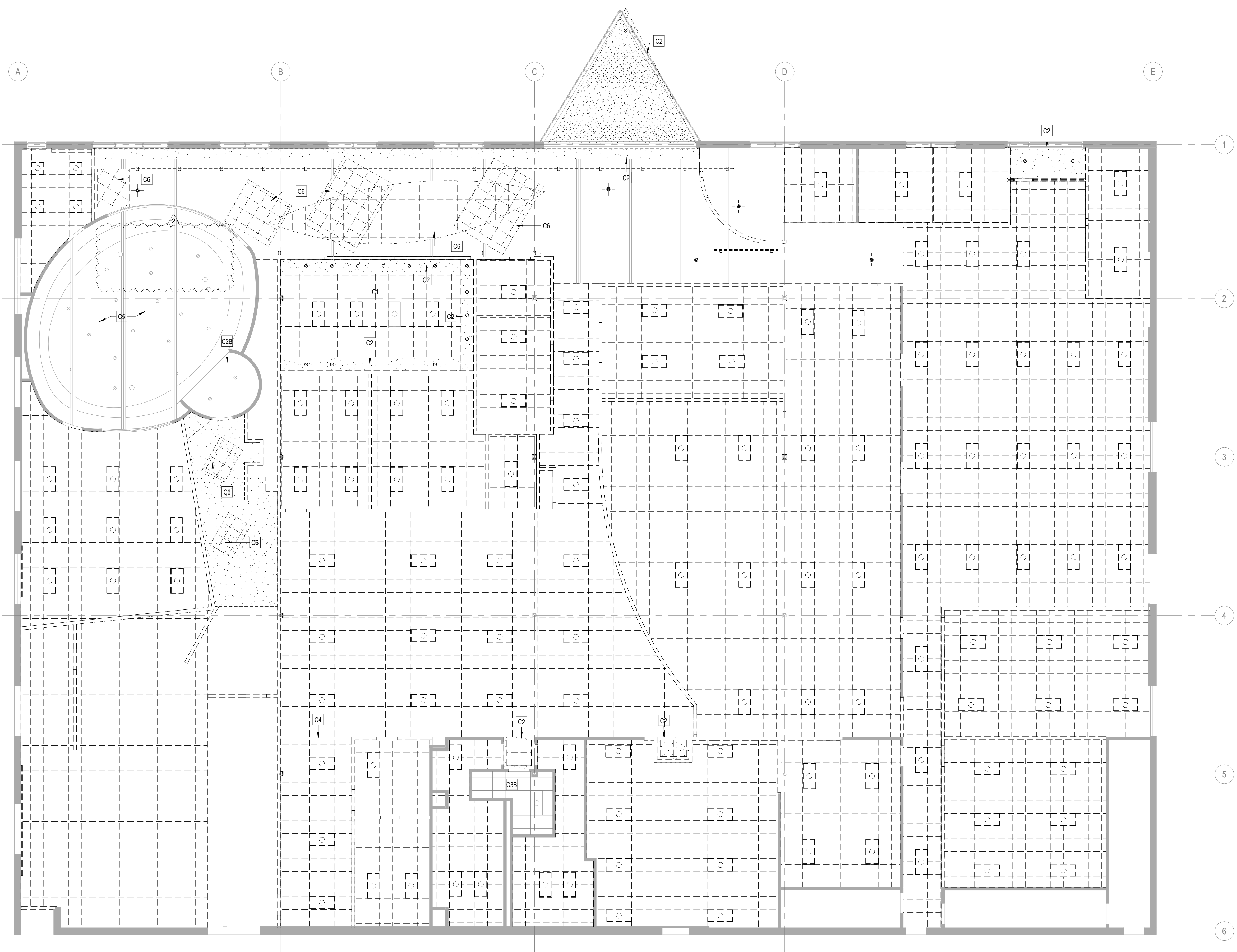
- GYPSUM BOARD OR PLASTER PARTITION TO BE REMOVED
- FRAME AND DOOR TO BE REMOVED
- SUSPENDED ACOUSTICAL TILE CEILING WITH OVERHEAD BATT INSULATION TO BE REMOVED
- SUSPENDED ACOUSTICAL TILE CEILING TO REMAIN
- GYPSUM BOARD OR PLASTER CEILING TO BE REMOVED
- GYPSUM BOARD OR PLASTER CEILING TO REMAIN
- RECESSED 2x4 LAY-IN LIGHT FIXTURE TO BE REMOVED
- RECESSED 2x2 LAY-IN LIGHT FIXTURE TO BE REMOVED
- LINEAR LIGHT FIXTURE TO BE REMOVED
- PENDANT LIGHT TO BE REMOVED
- TRACK LIGHTING TO BE REMOVED
- RECESSED DOWNLIGHT TO BE REMOVED
- RETURN AIR GRILLE TO REMAIN
- SUPPLY AIR GRILLE TO REMAIN

DEMO GENERAL NOTES:

1. PRIOR TO AND DURING ANY DEMOLITION THE CONTRACTOR SHALL VERIFY AND MAINTAIN THE BUILDING'S STRUCTURAL INTEGRITY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AS REQUIRED TO INSTALL ALL NEW WORK. REPAIR, PATCH AND FINISH EXISTING FLOORS, WALLS AND CEILING DESIGNATED TO REMAIN TO MATCH EXISTING CONDITIONS.
3. REMOVE ALL HANGERS, SUSPENSION SYSTEMS, SUPPORT FRAMING, EQUIPMENT PADS, ANCHORS, ATTACHMENT HARDWARE AND RELATED APPURTENANCES CONNECTED WITH THE WORK TO BE DEMOLISHED. IF COMPLETE REMOVAL IS NOT POSSIBLE, CUT DEVICES AS CLOSE AS POSSIBLE TO ADJOINING SURFACES OR ORIGIN OF SUPPORT.
4. DURING THE BIDDING PERIOD, EACH BIDDING CONTRACTOR SHALL VISIT THE SITE AND THE FACILITY TO DETERMINE EXISTING CONDITIONS. CONTRACTOR'S FAILURE TO REASONABLY DETERMINE AND/OR ANTICIPATE THE EFFECT OF EXISTING CONDITIONS AND THE WORK INVOLVED THEREBY SHALL NOT BE JUSTIFICATION FOR ADDITIONAL COMPENSATION. NOTIFY ARCHITECT OF ANY DISCREPANCIES.
5. ALL MATERIALS, EQUIPMENT, FIXTURES, SYSTEMS, AND ACCESSORIES WHICH ARE TO REMAIN IN SERVICE SHALL BE CLEANED, REPAIRED, ADJUSTED AND PLACED INTO PROPER OPERATIONS IN ALL MODES WITH THE ORIGINAL SYSTEM.
6. WHEN TEMPORARY SHORING AND BRACING IS REQUIRED, CONTRACTOR SHALL RETAIN AND PAY FOR THE SERVICES OF A PROFESSIONAL ENGINEER, LICENSED TO PRACTICE IN THE STATE WHERE THE PROJECT IS LOCATED, TO DESIGN AND PREPARE DETAILED DRAWINGS.
7. EACH CONTRACTOR SHALL FOLLOW THE PROGRESS OF THE GENERAL DEMOLITION AND REMODELING WORK TO ASSURE THE ACCESSIBILITY AND SAFETY OF EQUIPMENT AND SYSTEMS IN SERVICE IN ORDER TO PROVIDE FOR THE TIMELY REMOVAL AND/OR RELOCATION OF EQUIPMENT, PIPING, ETC.
8. REMOVE ALL ABANDONED CONDUIT BOXES, CONDUCTORS, TELEPHONE LINES, ELECTRIC PANELS, AND ANY OTHER MISCELLANEOUS EQUIPMENT NOT REQUIRED FOR THE NEW FACILITY.
9. REMOVE ALL RECESSED FLOOR BOXES, WALKER DUCTS, FLOOR SINKS, HUB DRAINS, ELECTRICAL RECEPTACLES, ETC. AND FILL Voids AS REQUIRED.
10. REMOVE ALL DOOR STOPS AT ASSOCIATED DOORS TO BE DEMOLISHED.
11. NO TOXIC SUBSTANCES HAVE BEEN NOTED ON THE SITE. SHOULD THE CONTRACTOR ENCOUNTER ANY ASBESTOS, ASBESTOS PRODUCTS, PCBs OR OTHER TOXIC SUBSTANCES, THE CONTRACTOR SHOULD REPORT THIS IMMEDIATELY TO THE OWNER IN WRITING PRIOR TO CONTINUING WORK IN THIS AREA. WORK SHALL NOT BE RESUMED EXCEPT BY WRITTEN AUTHORIZATION OR AGREEMENT.
12. ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF EACH WORK DAY. THE JOB SITE IS TO BE LEFT SUFFICIENTLY CLEAN AS TO WARRANT OWNER'S APPROVAL.
13. REMOVE ALL CEILING SYSTEMS IN THEIR ENTIRETY, INCLUDING TILE, GRID, SUSPENSION WIRING, ANCHORS AND ALL ASSOCIATED APPURTENANCES.
14. (NOT USED)
15. ALL LOOSE FURNITURE, EQUIPMENT, AND MISC. ITEMS REMAINING IN THE SPACE AFTER THE AWARD OF CONTRACT SHALL BE CONSIDERED PART OF THE DEMOLITION UNLESS OTHERWISE NOTED BY THE OWNER VIA WALKTHROUGH OR TAGS LEFT ON SITE. CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF ALL REMAINING LOOSE ITEMS.

DEMO PLAN REFERENCED NOTES:

- FLOOR DEMOLITION KEYED NOTES**
- F1 REMOVE WALL BASE, RESILIENT TILE FLOORING, AND SUBSTRATE ADHESIVE COMPLETE.
 - F2 REMOVE WALL BASE, CARPETING, AND SUBSTRATE ADHESIVE COMPLETE.
 - F3 REMOVE WALL BASE COMPLETE.
 - F4 REMOVE METAL GRATE AND RAILINGS COMPLETE. PREP FLOOR SLAB DEPRESSION AND INFILL WITH CONCRETE TO E FLUSH WITH ADJACENT FLOOR SLABS.
 - F5 HATCH INDICATES PROPOSED AREA OF SLAB REMOVAL AS REQ. FOR PLUMBING/CIVIL WORK. BACKFILL AS REQUIRED AND INFILL PER DETAIL 8A7.01
 - F6 REMOVE WALL BASE, TILE FLOORING COMPLETE.
 - F7 REMOVE STEEL PLATE FLOORING COMPLETE.
- WALL DEMOLITION KEYED NOTES**
- W1 REMOVE GYP BD PARTITION AS REQUIRED FOR NEW OPENING.
 - W2 REMOVE GYP BD PARTITION TO EXTENTS SHOWN.
 - W3 REMOVE AND SALVAGE DOOR, FRAME, AND HARDWARE FOR RE-USE IN NEW WORK.
 - W4 REMOVE FURRING AND INFILL FROM EXISTING WINDOW COMPLETE. REPAIR/TOUCH UP WINDOW AS REQ. FOR NEW WORK.
 - W5 REMOVE STOREFRONT SYSTEM AND MTL STUD PARTITION ABOVE COMPLETE.
 - W6 REMOVE EXTERIOR DOOR/FRAME COMPLETE. PREP ROUGH OPENING FOR NEW WORK.
 - W7 REMOVE METAL PANEL WALL SYSTEM COMPLETE.
- CEILING DEMOLITION KEYED NOTES**
- C1 REMOVE SECOND UPPER GYP CEILING INSTALLED ABOVE EXISTING SAT CEILING / GYP SOFFITS COMPLETE.
 - C2 REMOVE GYP BD CEILINGS AND BULKHEAD COMPLETE.
 - C2A REMOVE GYP. BD. CEILING TO EXTENTS SHOWN.
 - C2B EXISTING GYP. BD. CEILING TO REMAIN REMOVE EXISTING RECESSED LIGHT FIXTURES COMPLETE AND PREP OPENINGS AS REQUIRED FOR NEW LIGHT FIXTURES.
 - C3A REMOVE ACOUSTIC CEILING TILE SYSTEM WITH OVERHEAD BATT INSULATION TO EXTENTS SHOWN COMPLETE.
 - C3B EXISTING CEILING TILE SYSTEM TO REMAIN.
 - C4 REMOVE PRIVACY CURTAINS AND ASSOCIATED TRACK COMPLETE.
 - C5 CURVED GYP BD. CLOUD CEILING. REMOVE EXISTING RECESSED LIGHT FIXTURES COMPLETE AND PREP OPENINGS AS REQ. FOR NEW LIGHT FIXTURES REMOVE.
 - C6 CLOUD CEILING SYSTEM TO BE REMOVED COMPLETE.
 - C7 (NOT USED)
- MISCELLANEOUS DEMOLITION KEYED NOTES**
- M1 REMOVE COUNTERTOP AND BASE CABINETS COMPLETE.
 - M2 REMOVE UPPER CABINETS/GOGGLE COMPLETE.
 - M3 REMOVE SINK AND ASSOCIATED UTILITIES COMPLETE.
 - M4 REMOVE DISPLAY BOARD COMPLETE.
 - M5 REMOVE FULL HEIGHT CABINETS COMPLETE.
 - M6 REMOVE WALL MOUNTED SHELVES COMPLETE.
 - M7 REMOVE WATER SHUT OFF VALVE AND ASSOCIATED PIPING COMPLETE (REFER TO CIVIL AND PLUMBING)
 - M8 (NOT USED)
 - M9 REMOVE DRINKING FOUNTAIN AND ASSOCIATED PLUMBING COMPLETE. FOR RE-LOCATION IN NEW WORK.
 - M10 REMOVE TECHNOLOGY RACK COMPLETE (REFER TO TECH)
 - M11 REMOVE DOOR, FRAME EXISTING TO REMAIN.
 - M12 REMOVE FULL OR EXISTING WINDOWS COMPLETE.
 - M13 REMOVE WINDOW BLINDS COMPLETE.
- *PROTECT ALL ITEMS NOTED BELOW THROUGHOUT DEMOLITION AND NEW CONSTRUCTION.
 *REMOVE AND REINSTALL AS REQUIRED FOR NEW WORK.



1 DEMOLITION REFLECTED CEILING PLAN
 1/8" = 1'-0"



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 DKA PROJECT NO: 22-050

FLOOR PLAN & SECTION SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

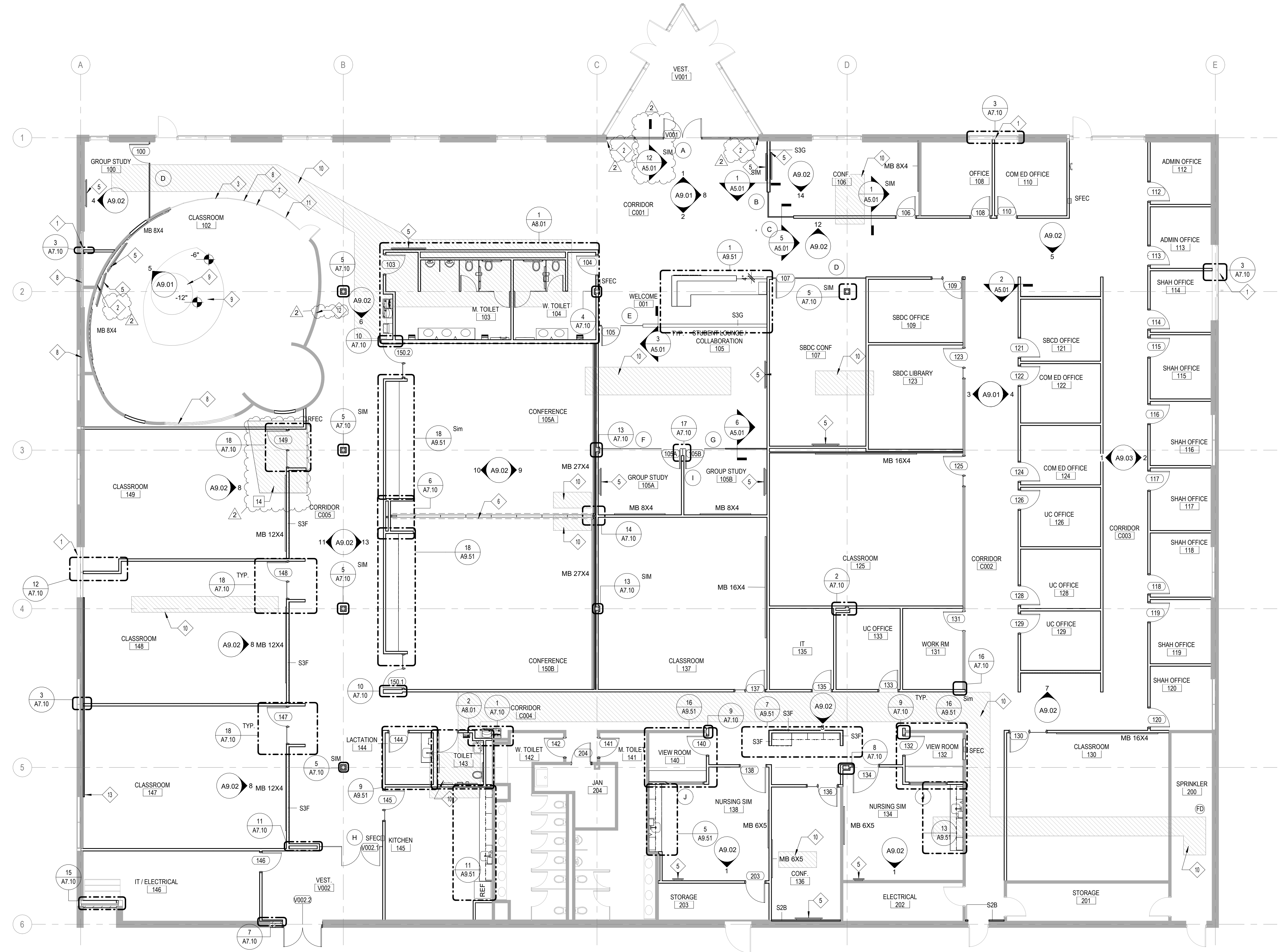
- GREYTOPE LINES DEPICT EXISTING CONSTRUCTION
- EXISTING DOOR
- NEW WALL CONSTRUCTION
- NEW DOOR
- ROOM NAME**
[191] ROOM TAG
- DOOR / FRAME TAG
- WINDOW TAG
- PLAN AND SECTION DETAIL CALLOUT
- SECTION CALLOUT
- ELEVATION CALLOUT
- DATUM TAG
- NEW WORK REFERENCED NOTES
- FLOOR DRAIN - REFER TO PLUMBING
- EXTERIOR HOSE BIB
- WALL MOUNT FIRE EXTINGUISHER CABINET
FEC
SEMI-RECESSED EXTINGUISHER CABINET
SFEC
RECESSED EXTINGUISHER CABINET
RFEC
- LENGTH SPECIFIED MARKERBOARD - (REFER TO SPECS)

FLOOR PLAN GENERAL NOTES:

1. FINISH FLOOR ELEVATION OF 0'-0" - XXX" USGS AS NOTED ON SHEET C.X.XX.
2. ELEVATIONS SHOWN ON ARCHITECTURAL DRAWINGS ARE RELATIVE TO FIRST FLOOR FINISH ELEVATION OF 0'-0".
3. REFER TO CODE PLANS ON SHEETS AC.10 THRU AC.XX FOR FIRE RATINGS AND AREA SEPARATION LOCATIONS FOR WALLS, ENCLOSURES, OPENINGS, ETC.
4. DO NOT SCALE DRAWINGS.
5. NOTIFY ARCHITECT OF ANY DISCREPANCIES IN THE DOCUMENTS PRIOR TO WORK COMMENCING.
6. NOTES ON DRAWINGS SHALL APPLY TO ALL SIMILAR CONDITIONS WHETHER THEY ARE REPEATED OR NOT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF EXISTING CONDITIONS AND IN-FIELD DIMENSIONS PRIOR TO COMMENCING WORK.
8. PROVIDE ACCESS PANELS AT LOCATIONS INDICATED AND AS REQUIRED FOR ACCESS TO EQUIPMENT AND DEVICES INCLUDING, BUT NOT LIMITED TO, MECHANICAL, PLUMBING AND ELECTRICAL WORK. PAINT ACCESS PANELS TO MATCH ADJACENT WALL OR CEILING FINISH.
9. REFER TO EXTERIOR ELEVATIONS, SECTIONS AND DETAILS FOR CONSTRUCTION OF EXTERIOR WALLS.

FLOOR PLAN REFERENCED NOTES:

1. ALIGN CENTER OF WALL TO WINDOW MULLION V.L.F.
2. PATCH EXISTING WALLS WHERE DEVICES WERE REMOVED / RELOCATED.
3. PROVIDE CONT. ACOUSTIC GASKET IN ALL OPEN JOINTS IN EXISTING GLASS PARTITION.
4. INFILL DEPRESSED FLOOR SLAB (w/ 4" V.I.F.) WITH CONCRETE TO BE FLUSH WITH ADJACENT FLOOR SLABS.
5. WALL MOUNTED MONITOR (REFER TO TECH)
6. COLLING PARTITION SYSTEM (REFER TO SPECS)
7. REPAIR EXISTING GASKET AND RE-ANCHOR TOP TRACKS AS REQUIRED TO STABILIZE EXISTING WINDOWS
8. PROVIDE FROSTED W/AV WINDOW FILM AT INTERIOR FACE OF EXISTING EXTERIOR WINDOWS INDICATED
9. DEPRESSED SEATING AREA EXISTING TO REMAIN.
10. HATCH INDICATES BACKFILL AS REQUIRED AND INFILL PER DETAIL 8/A5.01 REQ. FOR PLUMBING ELECTRICAL WORK
11. PATCH EXISTING METAL STUD/GYP BD. PARTITION ABOVE TO MATCH EXISTING AT REMOVAL OF EXISTING DUCTWORK
12. CONTINUOUS GYP BOARD TO DECK ABOVE ON BACKSIDE OF EXISTING CURVED WALL TO REMAIN.



1 OVERALL FLOOR PLAN
 1/8" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23

ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

SHEET TITLE:
OVERALL FLOOR PLAN

SHEET NUMBER:

A1.11



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RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION AFFECT
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- LINEAR WOOD SLAT CEILING SYSTEM
- WOOD PANEL BAFFLES
- RECESSED 2x2 LIGHT FIXTURE
- RECESSED 2x2 FIXTURE
- SURFACE MOUNTED LIGHT LINEAR FIXTURE
- SMALL PENDANT LIGHT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- RECESSED DOWN LIGHT
- PENDANT LIGHT MOUNT LINEAR FIXTURE
- SPRINKLER HEAD
- RECESSED LIGHT LINEAR FIXTURE
- EMERGENCY LIGHT
- MANUAL PROJECTOR
- CEILING MOUNTED PROJECTOR
- SOLID HATCH DENOTES EXIT SIGN FACE PLATE
- DIRECTION OF EGRESS
- EXIT SIGN, WALL MOUNTED
- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE ALARM DEVICE
- SPEAKER
- CLOSED CIRCUIT CAMERA
- OCCUPANT SENSOR
- WIRELESS ACCESS POINT
- LIGHT SENSOR
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL
- ELECTRIC UNIT HEATER (REFER TO MECH/ELEC)

RCP GENERAL NOTES:

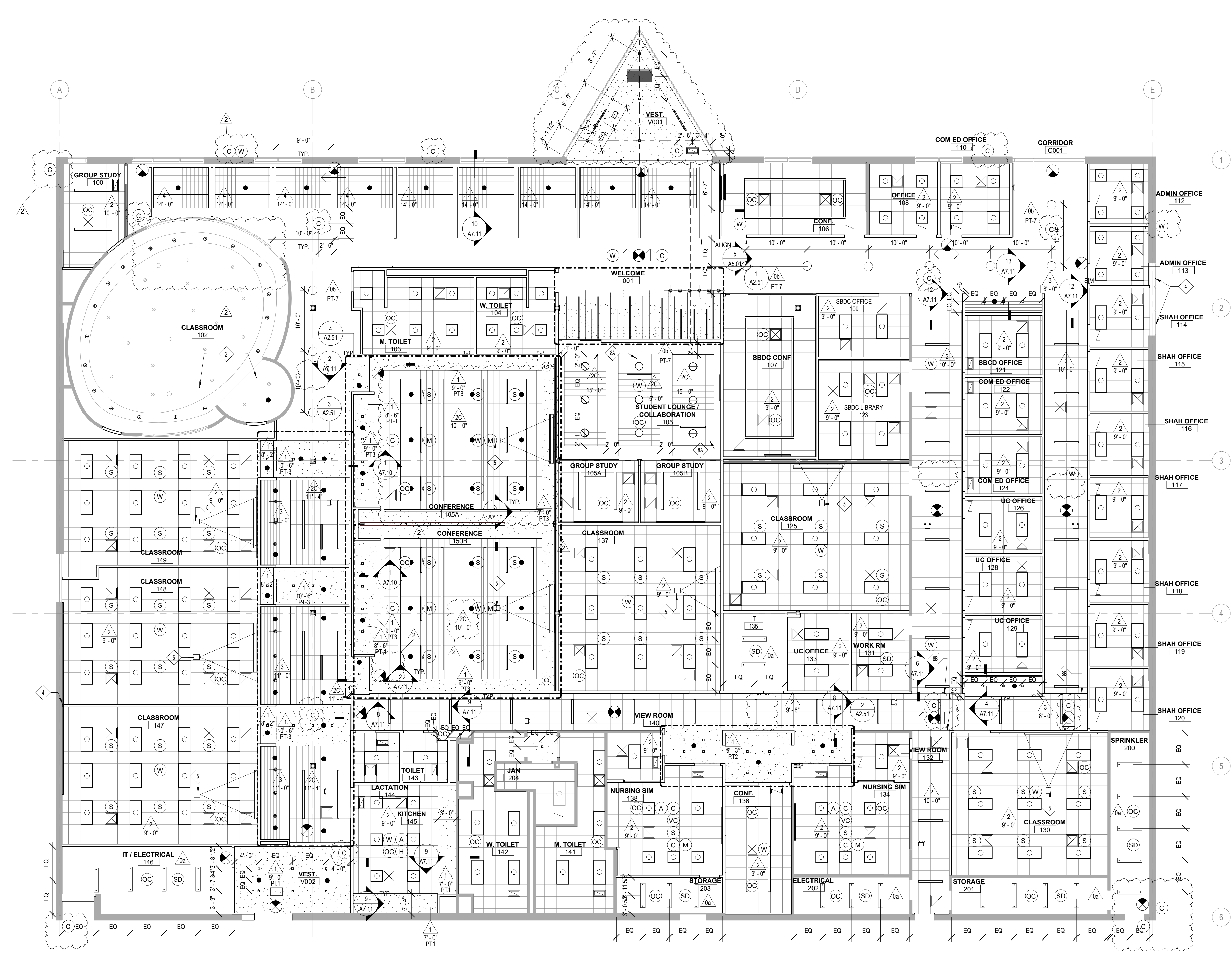
1. ALL HEATING, VENTILATION, ELECTRICAL, PLUMBING AND FIRE PROTECTION ITEMS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND COORDINATION ONLY. REFER TO HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION OF THESE ITEMS.
2. IN AREAS THAT DO NOT HAVE ARCHITECTURAL REFLECTED CEILING PLANS YET REQUIRE NEW ITEMS TO BE INSTALLED IN OR ABOVE THE CEILING PLANE, CONTRACTOR SHALL REMOVE AND REINSTALL, REPLACE OR MODIFY EXISTING CEILING CONSTRUCTION TO ACCOMMODATE NEW WORK. ANY NEW CEILING AREAS SHALL MATCH EXISTING ADJACENT FINISHES.
3. CENTER ALL FIXTURES IN CEILING TILES AND FIELD VERIFY GRID LAYOUT FOR PROPER FIXTURE LOCATION. ALIGN ALL FIXTURES IN BOTH DIRECTIONS OF CEILING TILE. (UNO)
4. CENTER ALL SPRINKLER HEADS IN CEILING TILES.
5. ALL GYP. BD. CEILINGS TO BE PAINTED PT-1 UNLESS OTHERWISE NOTED ON PLANS
6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 4" MIN. BEYOND FINISHED CEILING ABOVE UNO.

RCP REFERENCED NOTES:

1. OPEN TO DECK
2. EXISTING CEILING TO REMAIN FOR EXTENTS INDICATED PAINT PT-1. REPLACE EXISTING LIGHTING IN PLACE WITH NEW LIGHT FIXTURES (REFER TO ELEC.)
3. (NOT USED)
4. MANUAL ROLLER SHADES (REFER TO SPECS)
5. CEILING MOUNTED PROJECTOR (REFER TO ELEC/TECH)
6. PATCH CURVED GYP BD WALL AS REQUIRED TO INFLU WALL AREA LEFT OPEN BY MECH DEMO (REFER TO MECH)
7. (NOT USED)
8. 4" PERIMETER TRIM
 - A. CUSTOM COLOR (REFER TO SPECS)
 - B. WHITE

CEILING TYPES:

TYPE	DESCRIPTION
0a	EXPOSED EXISTING METAL DECK, NO PAINT
0b	EXPOSED EXISTING METAL DECK - PAINT ALL STRUCTURE, DUCT, PIPING, ETC. AS INDICATED
1	PAINTED GYP BOARD ON METAL FRAMING
2	2X2 ACOUSTICAL PANEL SYSTEM
2C	SCORED ACOUSTICAL PANEL SYSTEM
3	LINEAR WOOD PANEL SYSTEM
4	PERFORATED WOOD TILE CEILING



1 REFLECTED CEILING PLAN
 1/8" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23
ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

SHEET TITLE:
REFLECTED CEILING PLAN

SHEET NUMBER:
A2.11



ARCHITECT OF RECORD
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 203 MCHENRY, IL 60050
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MCHENRY COUNTY COLLEGE
UNIVERSITY CENTER AT MCC
 222 E CHURCH ST
 WOODSTOCK, ILLINOIS 60098
 DKA PROJECT NO: 22-050

RCP SYMBOLS LEGEND:

NOTE: REFER TO M.E.P.P. DRAWINGS FOR ADDITIONAL INFORMATION ON MECHANICAL, ELECTRICAL, AND FIRE PROTECTION SYSTEMS

- CEILING TYPE
- CEILING ELEVATION OFF
- SUSPENDED ACOUSTICAL TILE CEILING
- GYPSUM BOARD CEILING OR SOFFIT
- LINEAR WOOD SLAT CEILING SYSTEM
- WOOD PANEL BAFFLES
- RECESSED 2x2 LIGHT FIXTURE
- RECESSED 2x2 FIXTURE
- SURFACE MOUNTED LIGHT LINEAR FIXTURE
- SMALL PENDANT LIGHT FIXTURE
- PENDANT LIGHT MOUNT FIXTURE
- RECESSED DOWN LIGHT
- PENDANT LIGHT MOUNT LINEAR FIXTURE
- SPRINKLER HEAD
- RECESSED LIGHT LINEAR FIXTURE
- EMERGENCY LIGHT
- MANUAL PROJECTOR
- CEILING MOUNTED PROJECTOR
- SOLID HATCH DENOTES EXIT SIGN FACE PLATE
- DIRECTION OF EGRESS
- EXIT SIGN, WALL MOUNTED
- HEAT DETECTOR
- SMOKE DETECTOR
- FIRE ALARM DEVICE
- SPEAKER
- CLOSED CIRCUIT CAMERA
- OCCUPANT SENSOR
- WIRELESS ACCESS POINT
- LIGHT SENSOR
- RETURN AIR GRILLE
- SUPPLY AIR GRILLE
- LINEAR DIFFUSER - SUPPLY/RETURN
- ACCESS PANEL
- ELECTRIC UNIT HEATER (REFER TO MECHELEC)

RCP GENERAL NOTES:

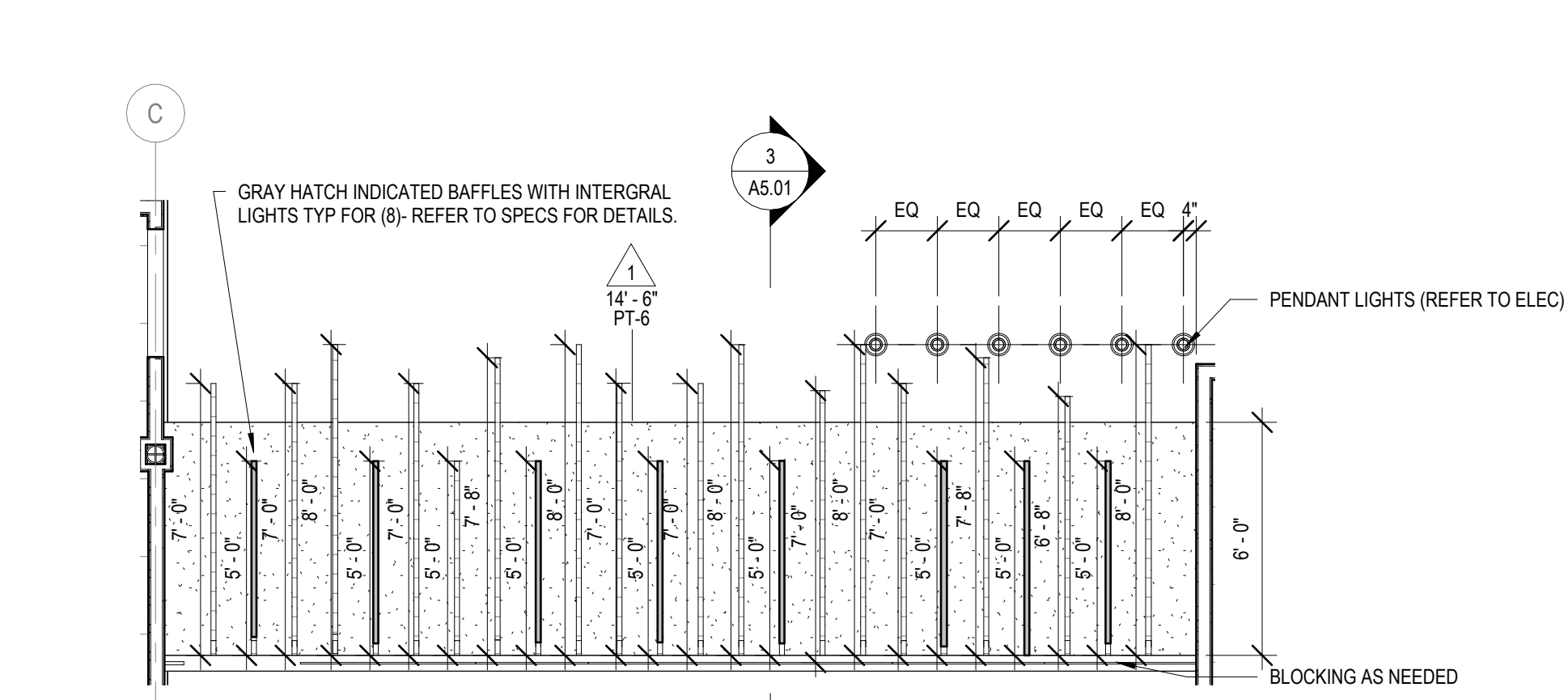
1. ALL HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION ITEMS ARE SHOWN ON ARCHITECTURAL REFLECTED CEILING PLANS FOR REFERENCE AND COORDINATION ONLY. REFER TO HEATING, VENTILATION, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ACTUAL QUANTITIES. IN CASE OF CONFLICT THE ARCHITECTURAL REFLECTED CEILING PLAN SHALL GOVERN LOCATION OF THESE ITEMS.
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6. EXTEND FACE OF ALL GYP. BD. SOFFITS AND HEADERS 4" MIN. BEYOND FINISHED CEILING ABOVE U.I.O.

RCP REFERENCED NOTES:

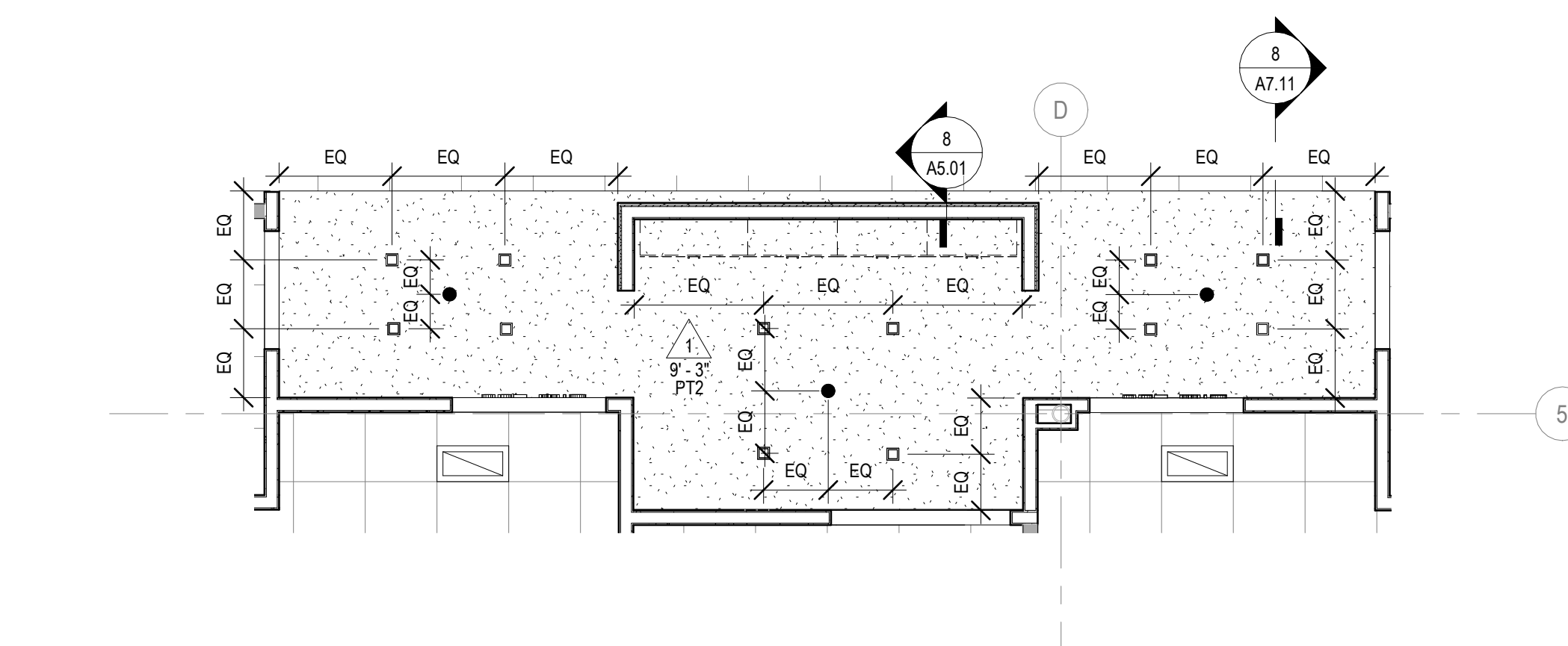
1. OPEN TO DECK
2. EXISTING CEILING TO REMAIN FOR EXTENTS INDICATED PAINT PT-1. REPLACE EXISTING LIGHTING IN PLACE WITH NEW LIGHT FIXTURES (REFER TO ELEC.)
3. (NOT USED)
4. MANUAL ROLLER SHADES (REFER TO SPECS)
5. CEILING MOUNTED PROJECTOR (REFER TO ELEC/TECH)
6. PATCH CURVED GYP BD WALL AS REQUIRED TO INFILL WALL AREA LEFT OPEN BY MECH DEMO (REFER TO MECH)
7. (NOT USED)
8. 4" PERIMETER TRIM
 - A. CUSTOM COLOR (REFER TO SPECS)
 - B. WHITE

CEILING TYPES:

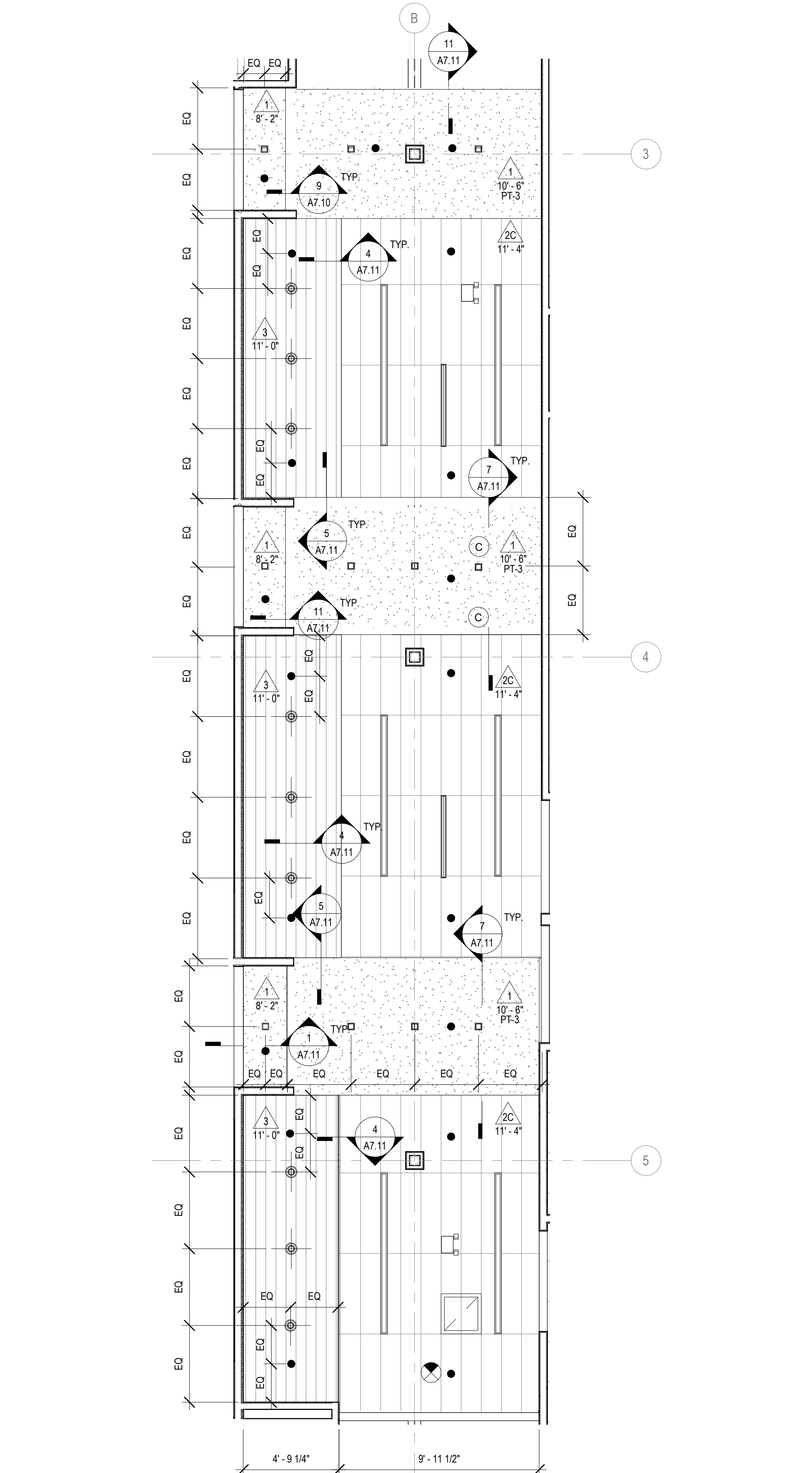
TYPE	DESCRIPTION
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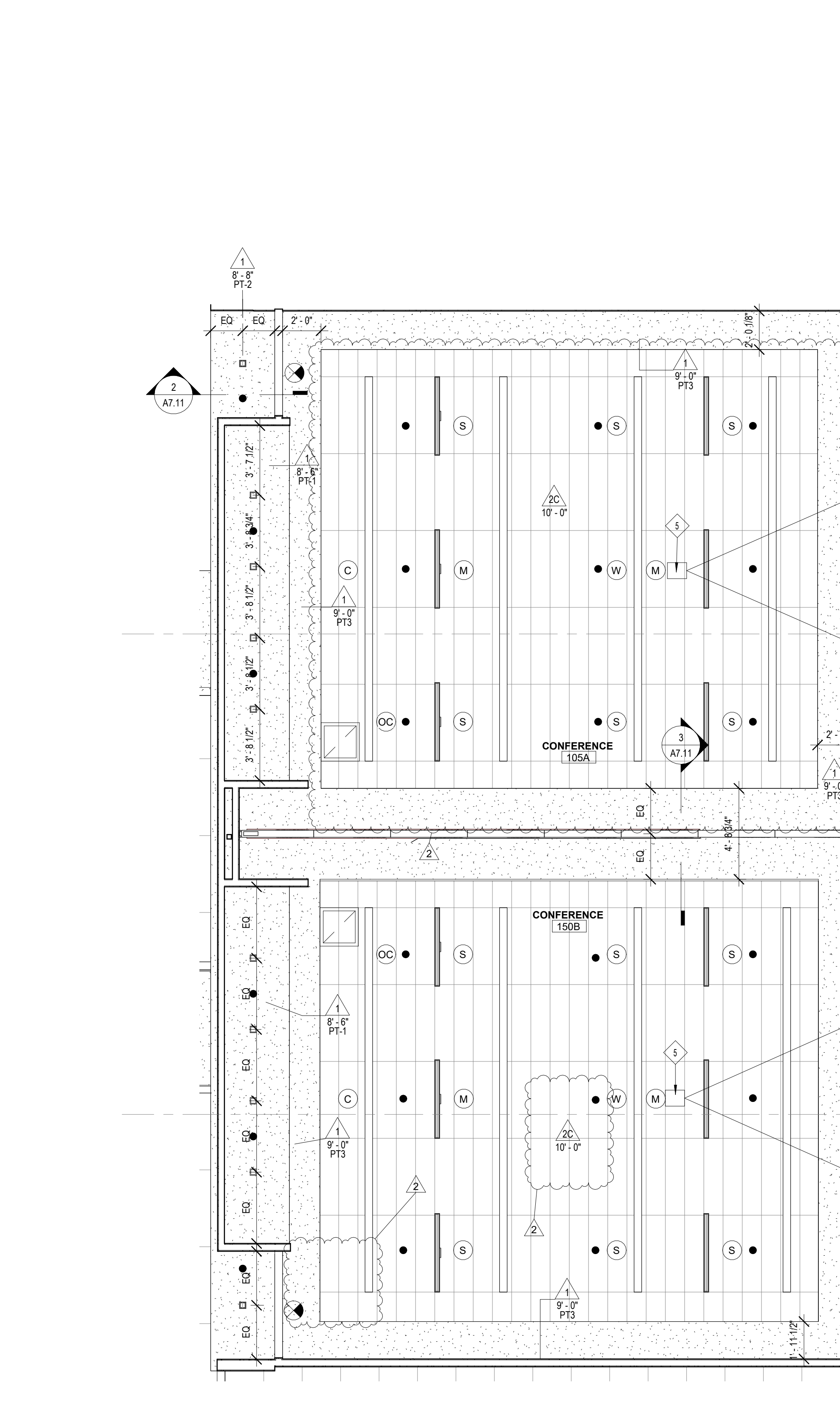
1 ENLARGED RECEPTION RCP
1/4" = 1'-0"



2 ENLARGED NURSING LAB REFLECTED CEILING
1/4" = 1'-0"



3 ENLARGED C005 REFLECTED CEILING PLAN
1/4" = 1'-0"



4 ENLARGED C005 REFLECTED CEILING PLAN 1
1/4" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23
ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

SHEET TITLE:
ENLARGED REFLECTED CEILING PLAN

SHEET NUMBER:
A2.51



ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
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KEY PLAN:

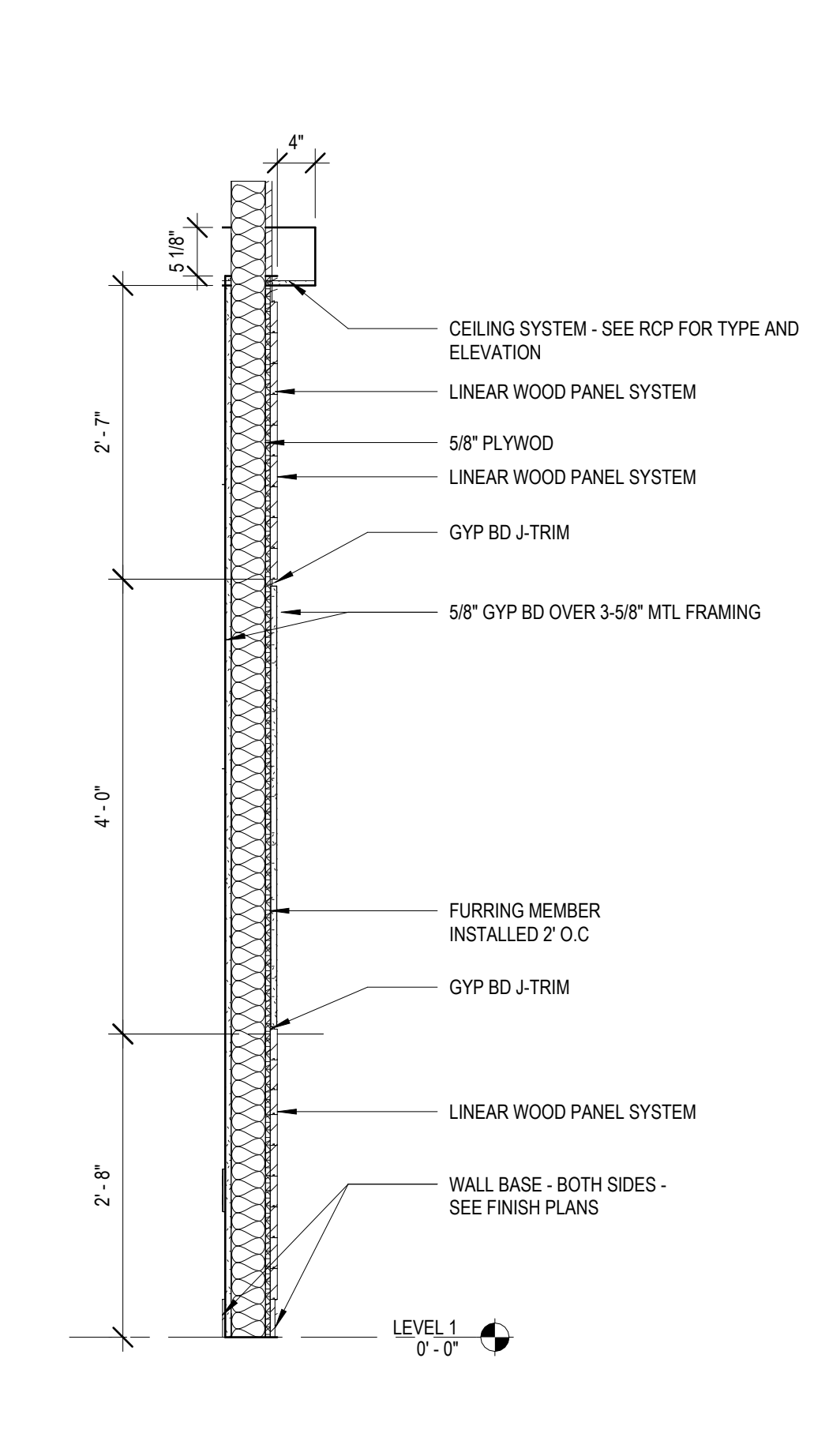
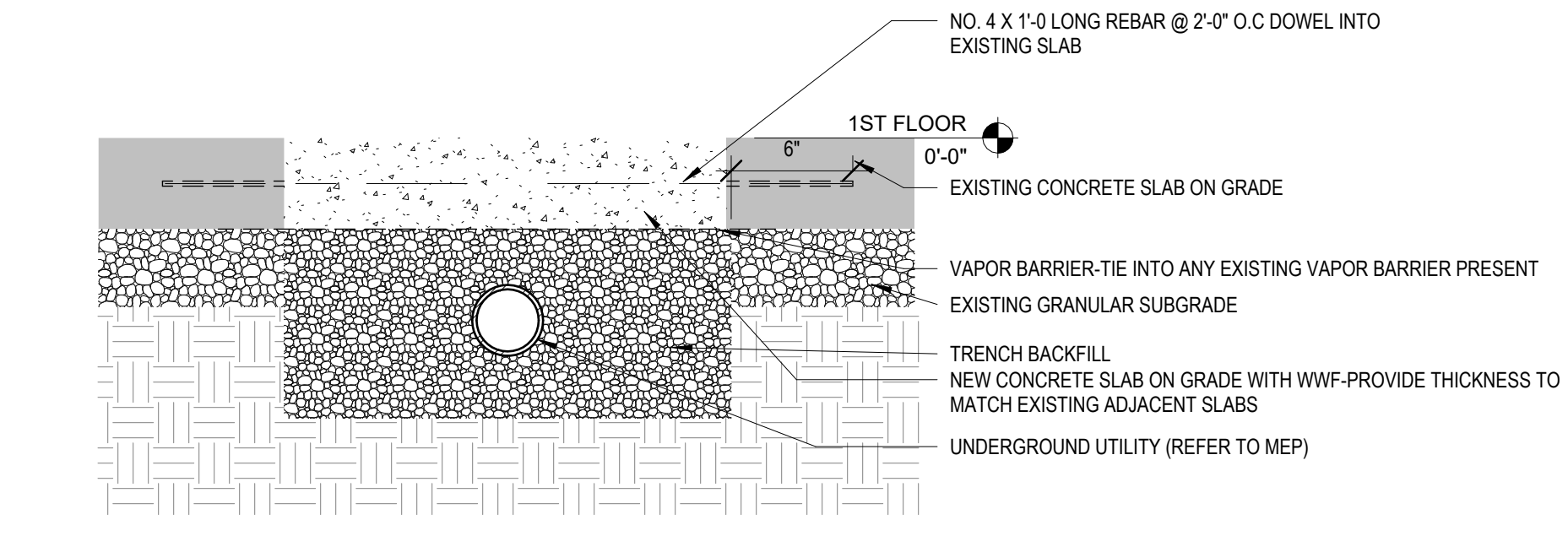
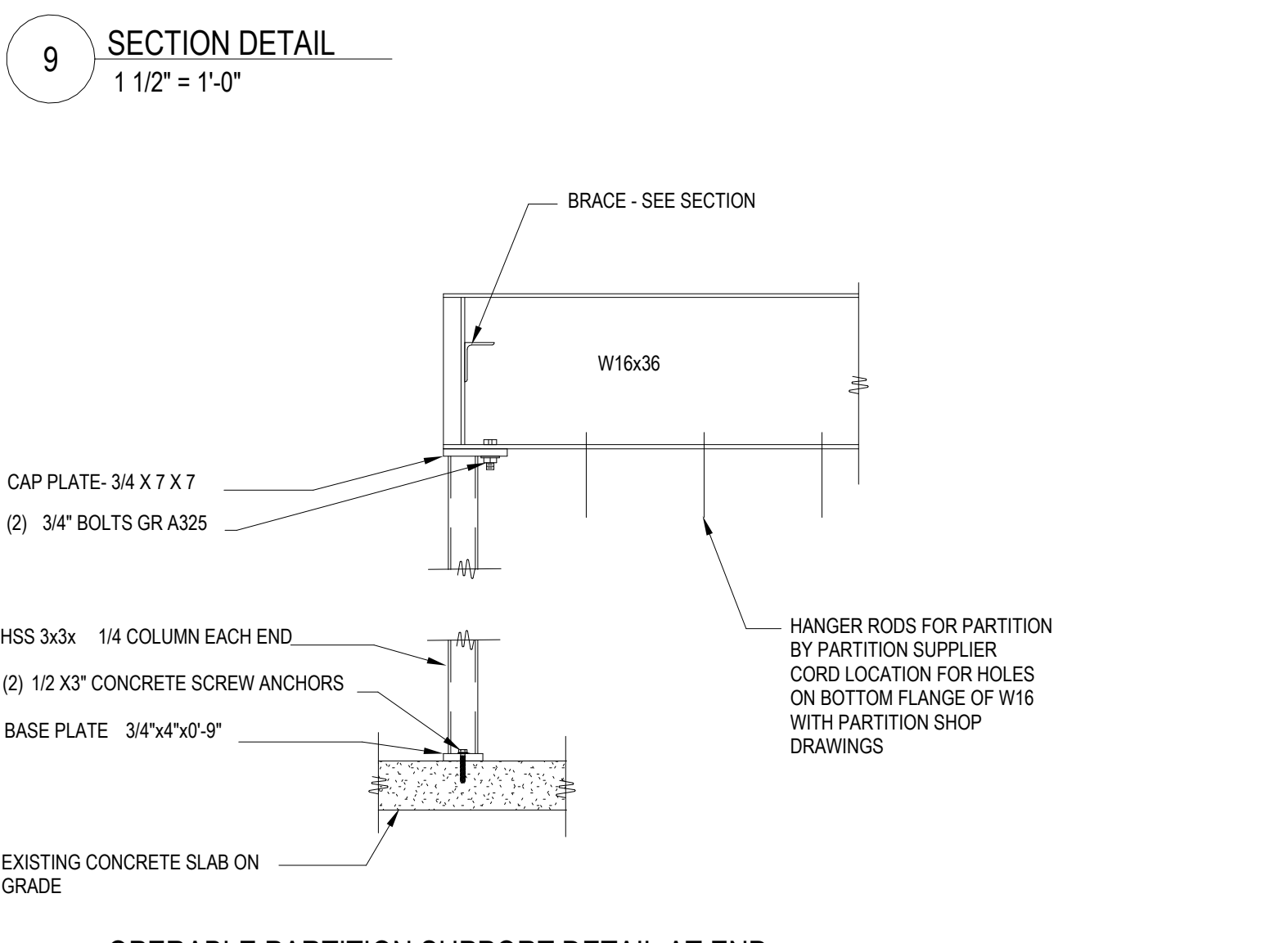
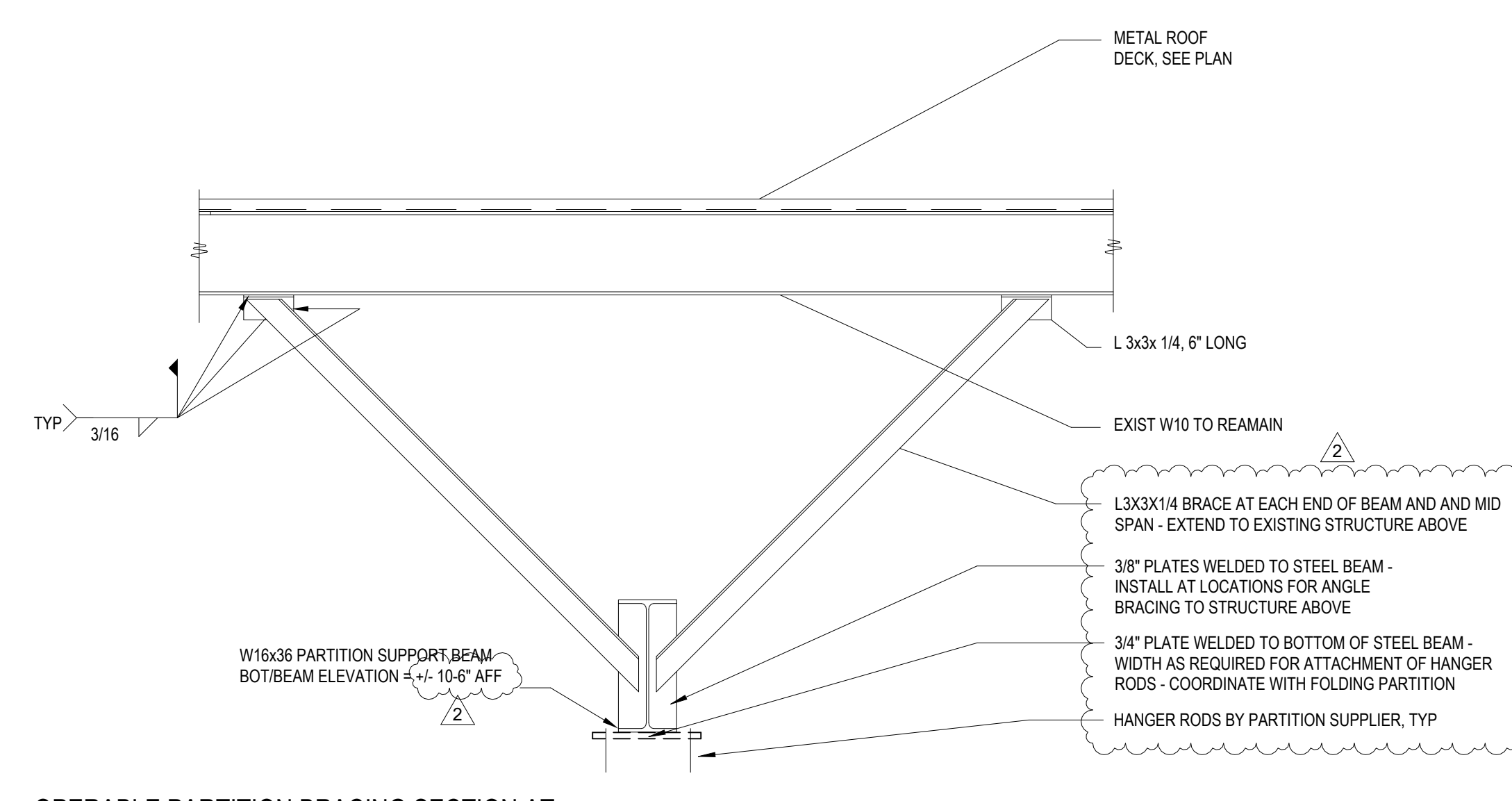
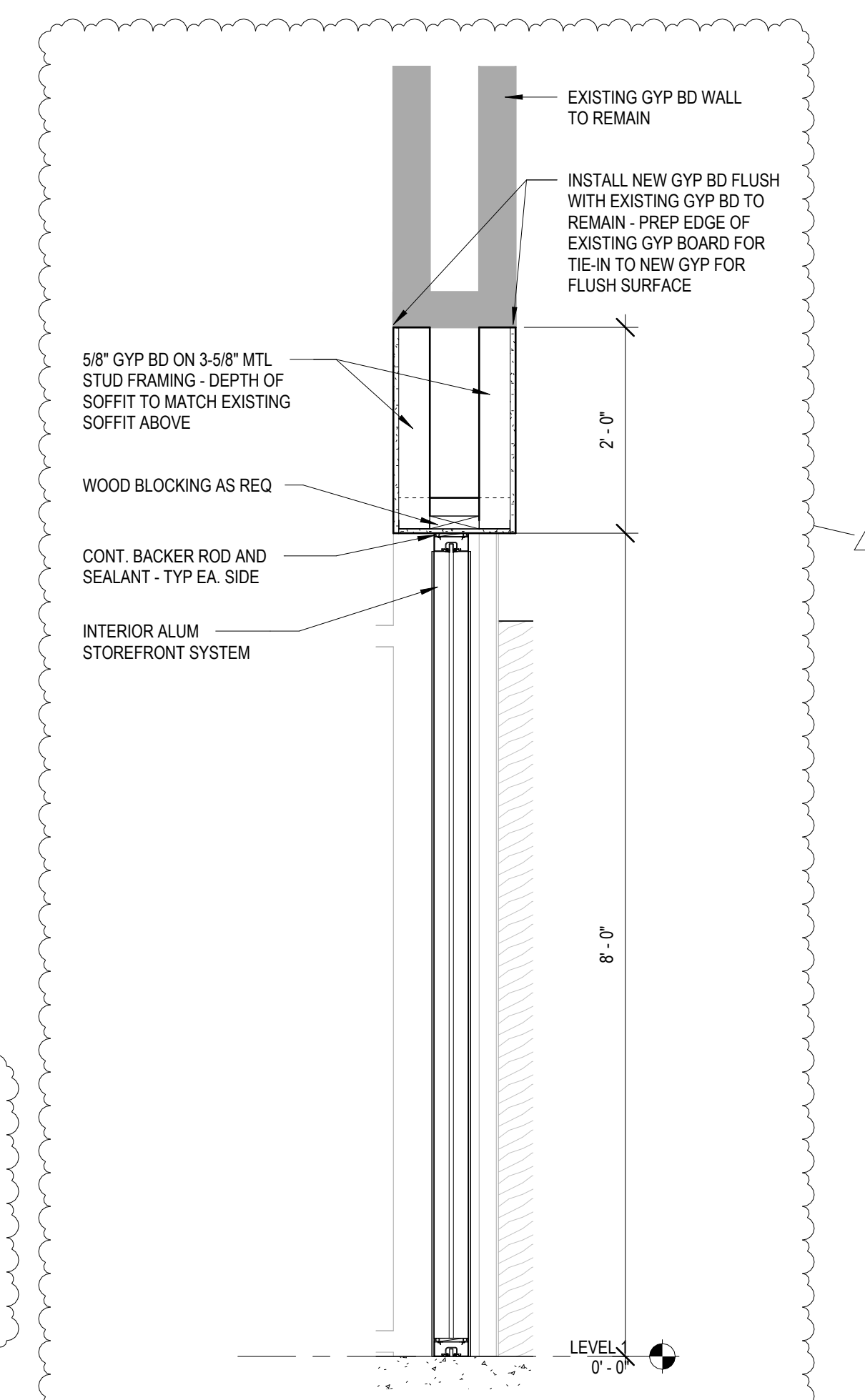
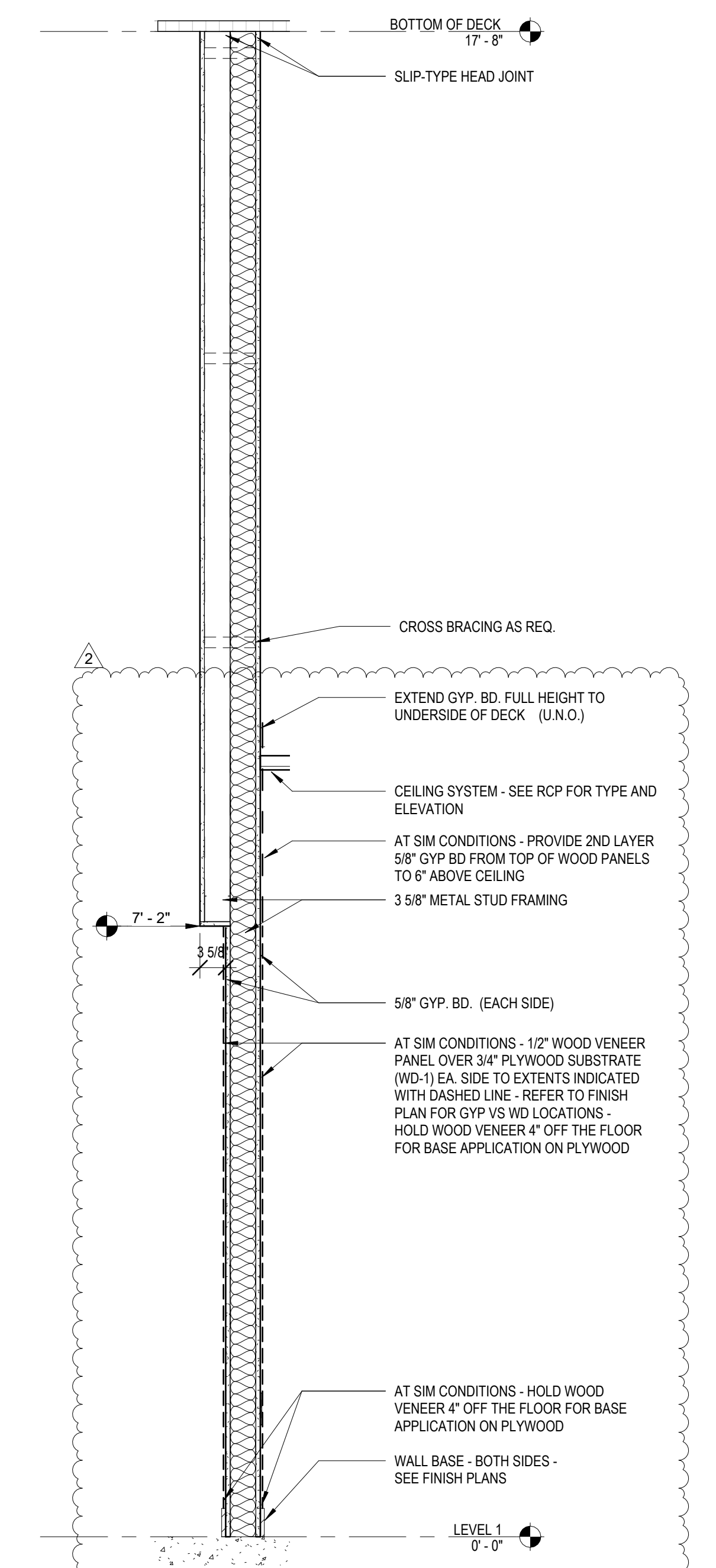
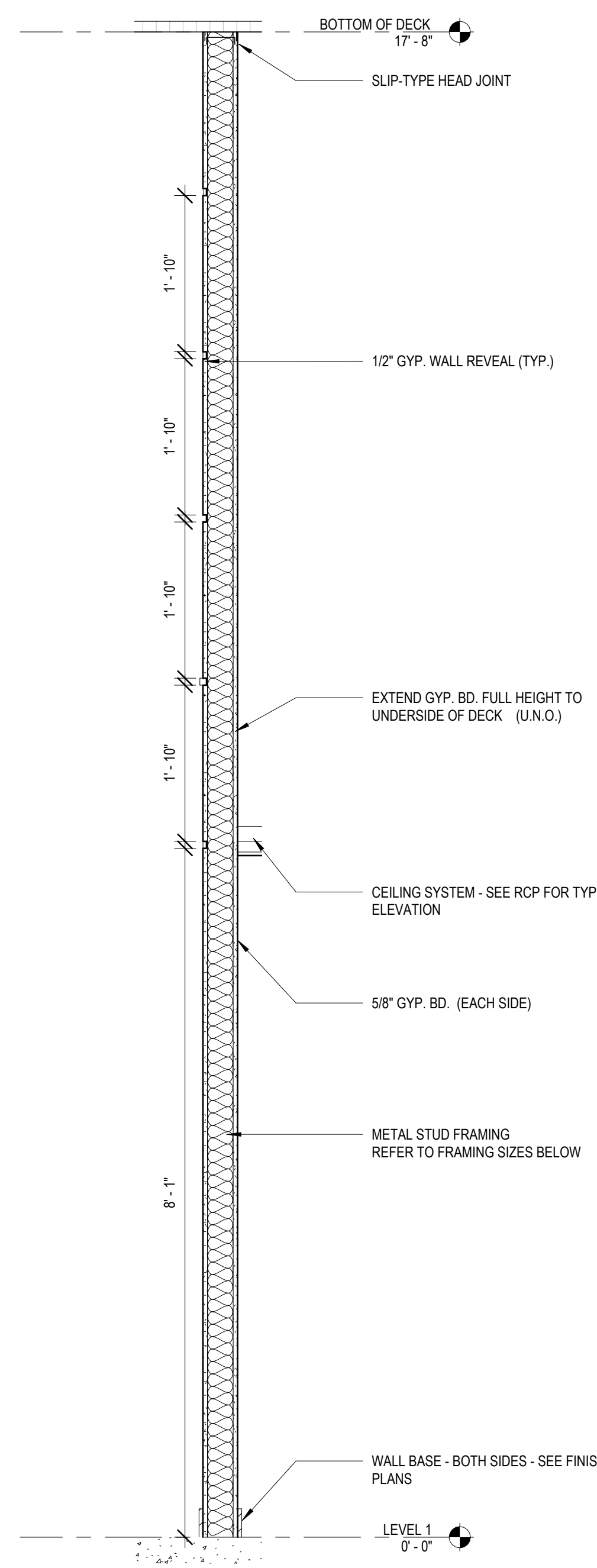
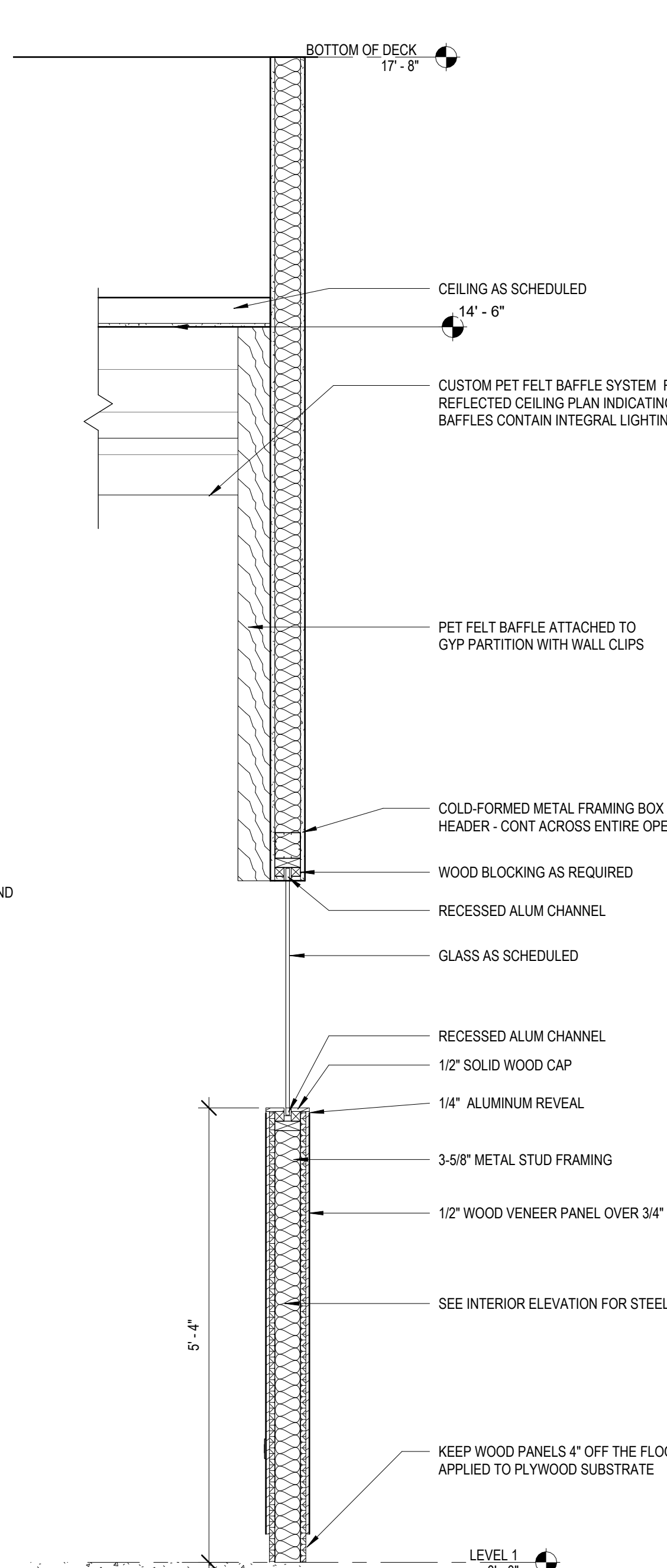
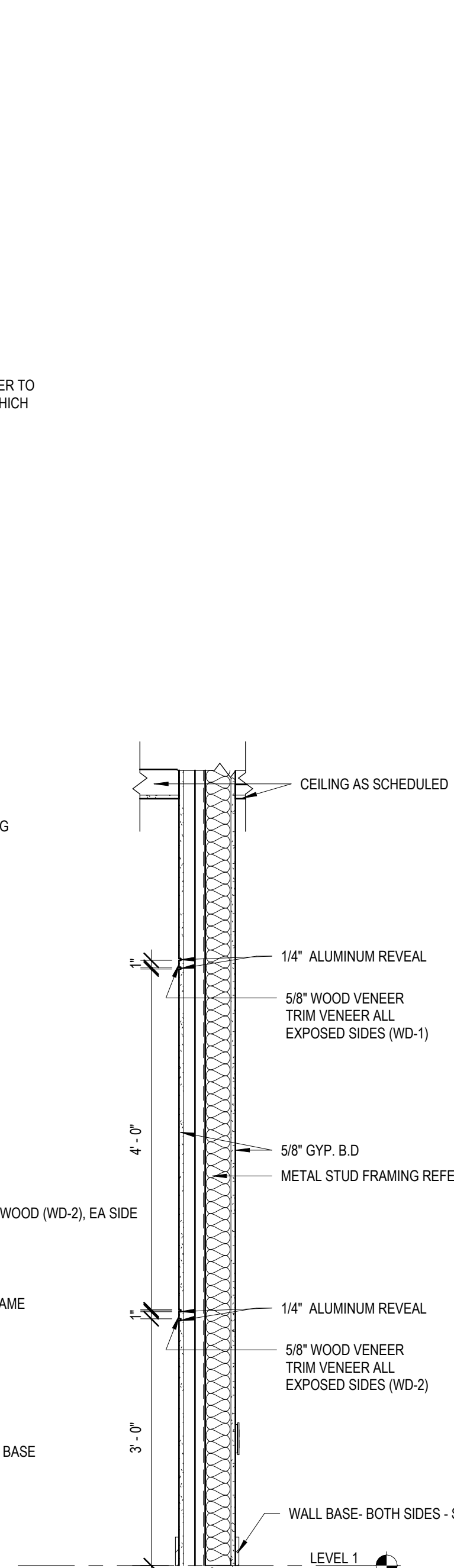
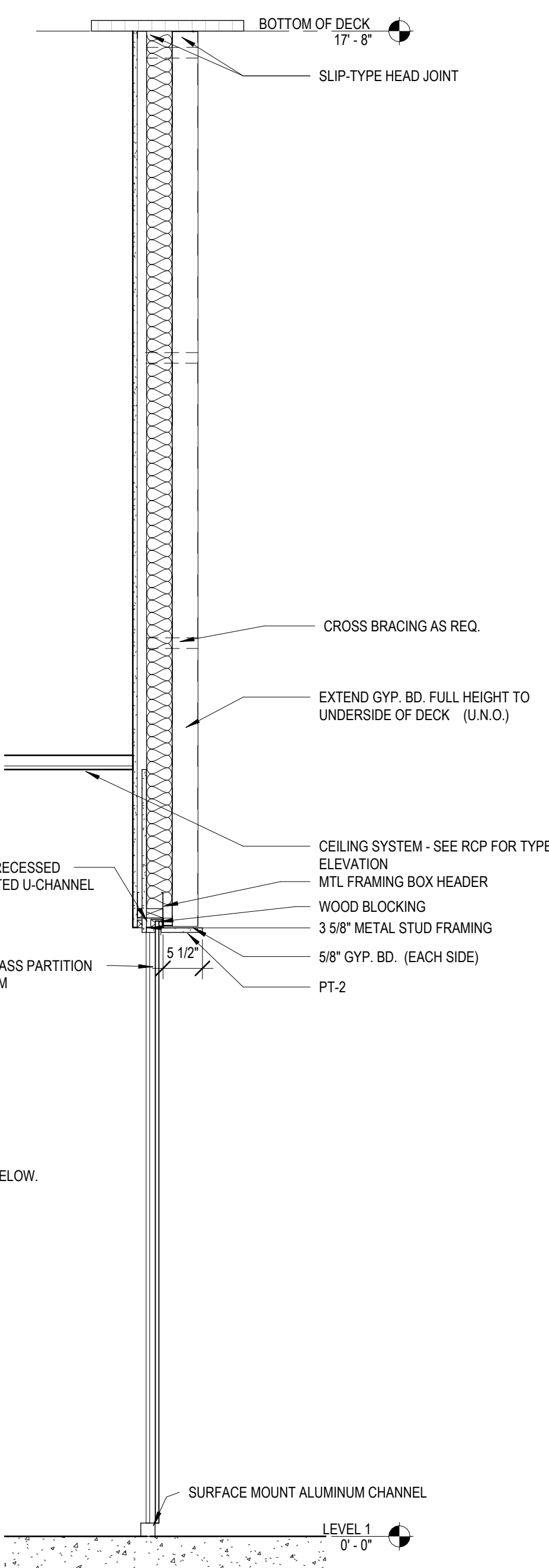
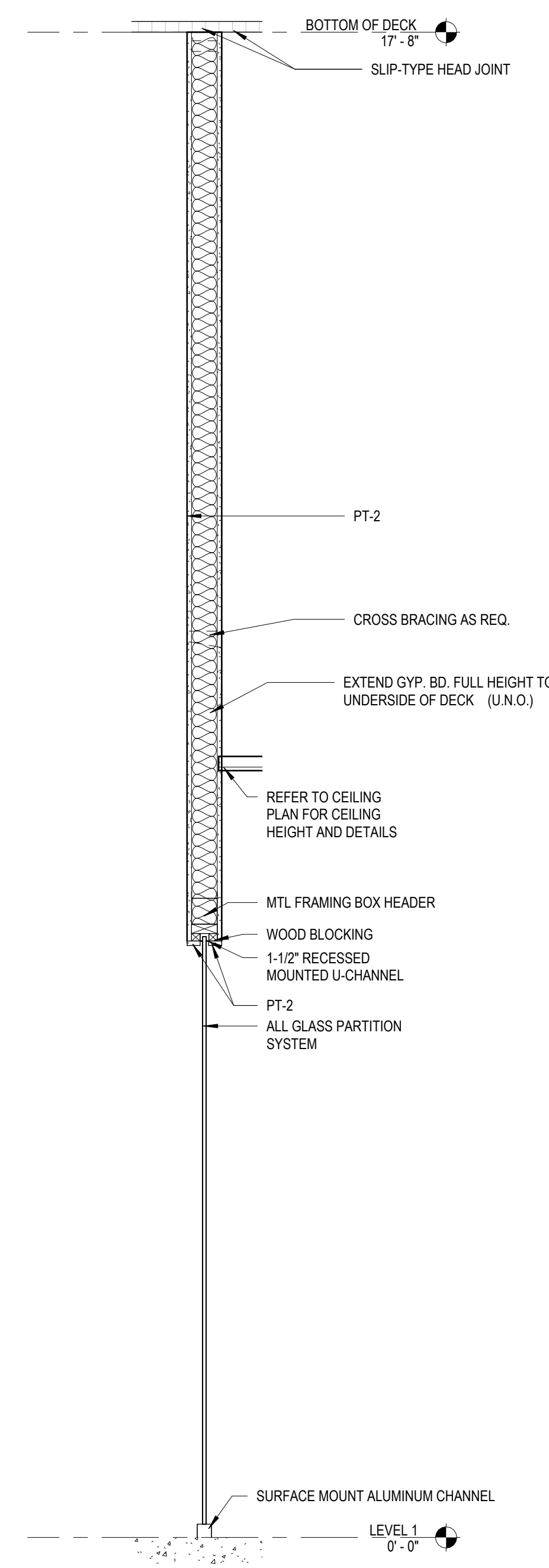
SHEET STATUS: 9.19.23
ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

SHEET TITLE:
SECTION DETAILS

SHEET NUMBER:
A5.01

10/6/2023 2:33:19 PM



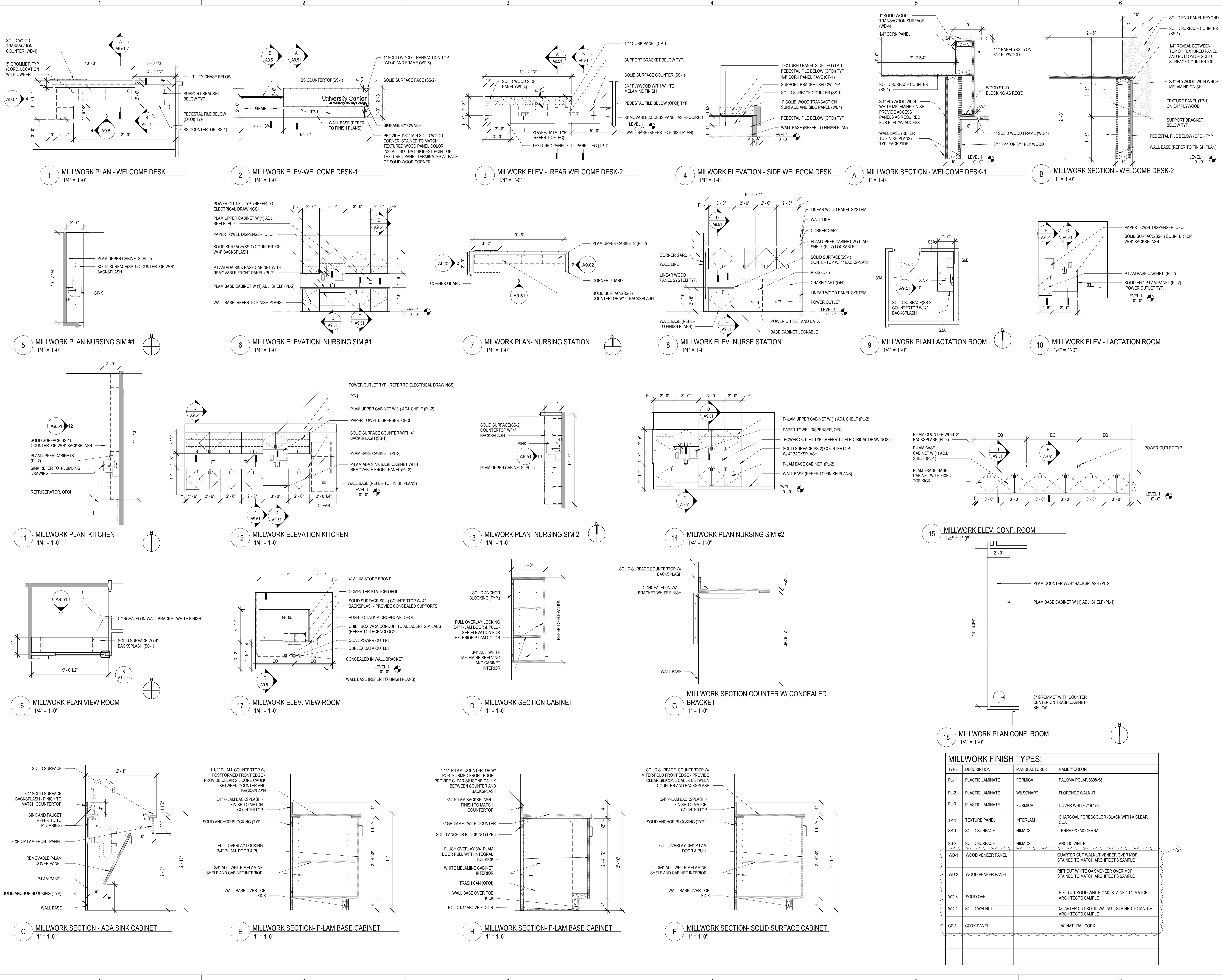


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MILLWORK FINISH TYPES:			
TYPE	DESCRIPTION	MANUFACTURER	NAME#COLOR
PL-1	PLASTIC LAMINATE	FORMICA	PALOMA POLAR 6698-58
PL-2	PLASTIC LAMINATE	WILSONART	FLORENCE WALNUT
PL-3	PLASTIC LAMINATE	FORMICA	DOVER WHITE 7197-58
TP-1	TEXTURE PANEL	INTERLAM	CHARCOAL FORESCOLOR -BLACK WITH A CLEAR COAT
SS-1	SOLID SURFACE	HIMACS	TERRAZZO MODERNA
SS-2	SOLID SURFACE	HIMACS	ARCTIC WHITE
WD-1	WOOD VENEER PANEL		QUARTER CUT WALNUT VENEER OVER MDF, STAINED TO MATCH ARCHITECT'S SAMPLE
WD-2	WOOD VENEER PANEL		RIFT CUT WHITE OAK VENEER OVER MDF, STAINED TO MATCH ARCHITECT'S SAMPLE
WD-3	SOLID OAK		RIFT CUT SOLID WHITE OAK, STAINED TO MATCH ARCHITECT'S SAMPLE
WD-4	SOLID WALNUT		QUARTER CUT SOLID WALNUT, STAINED TO MATCH ARCHITECT'S SAMPLE
CP-1	CORK PANEL		1/4" NATURAL CORK

KEY PLAN:

SHEET STATUS: 9.19.23
ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

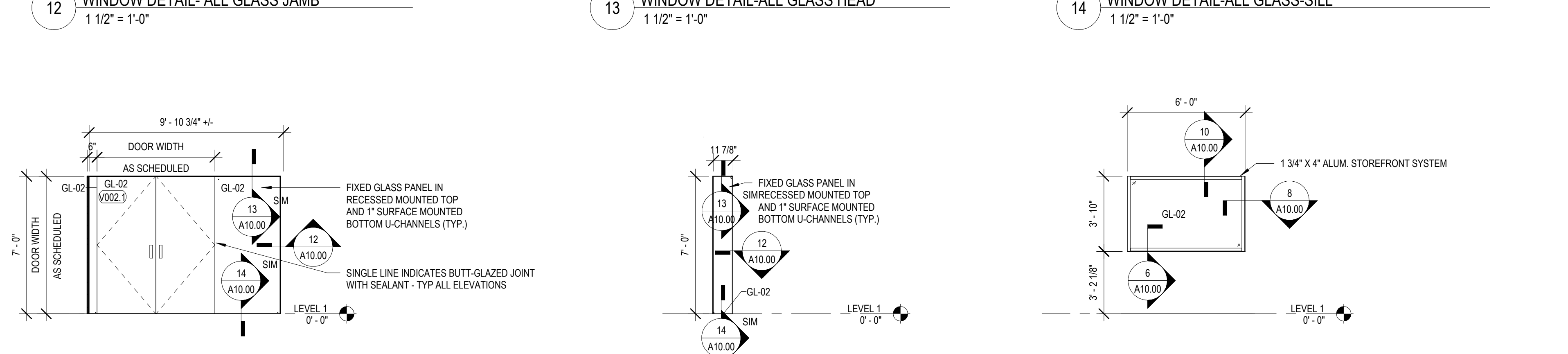
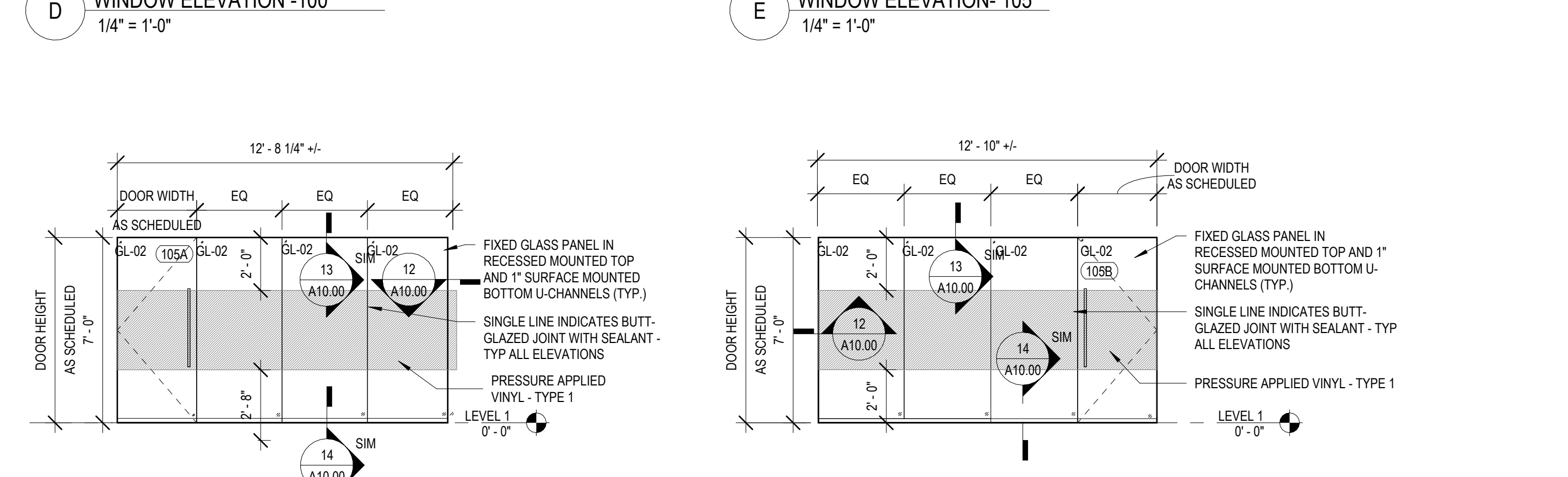
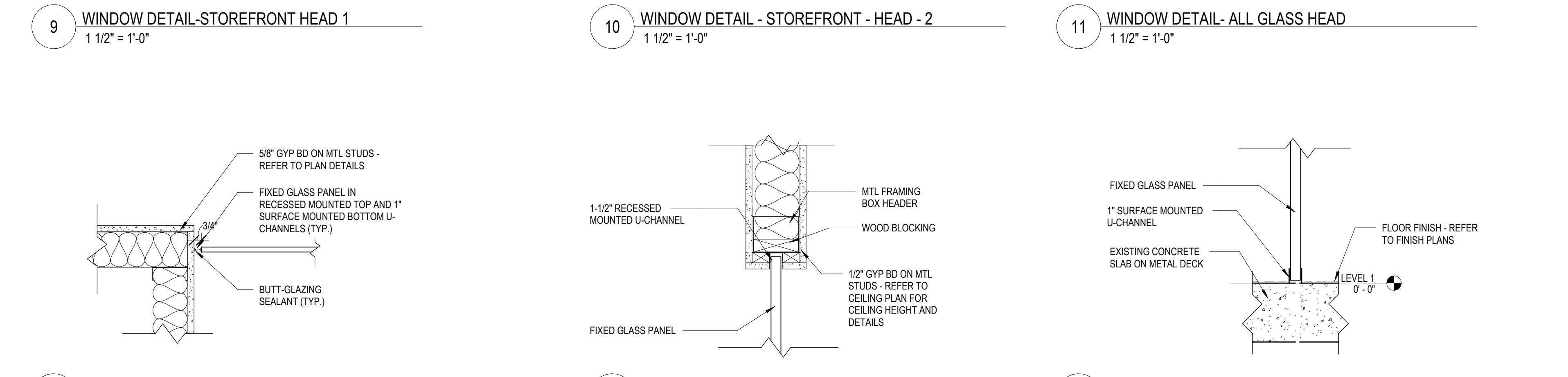
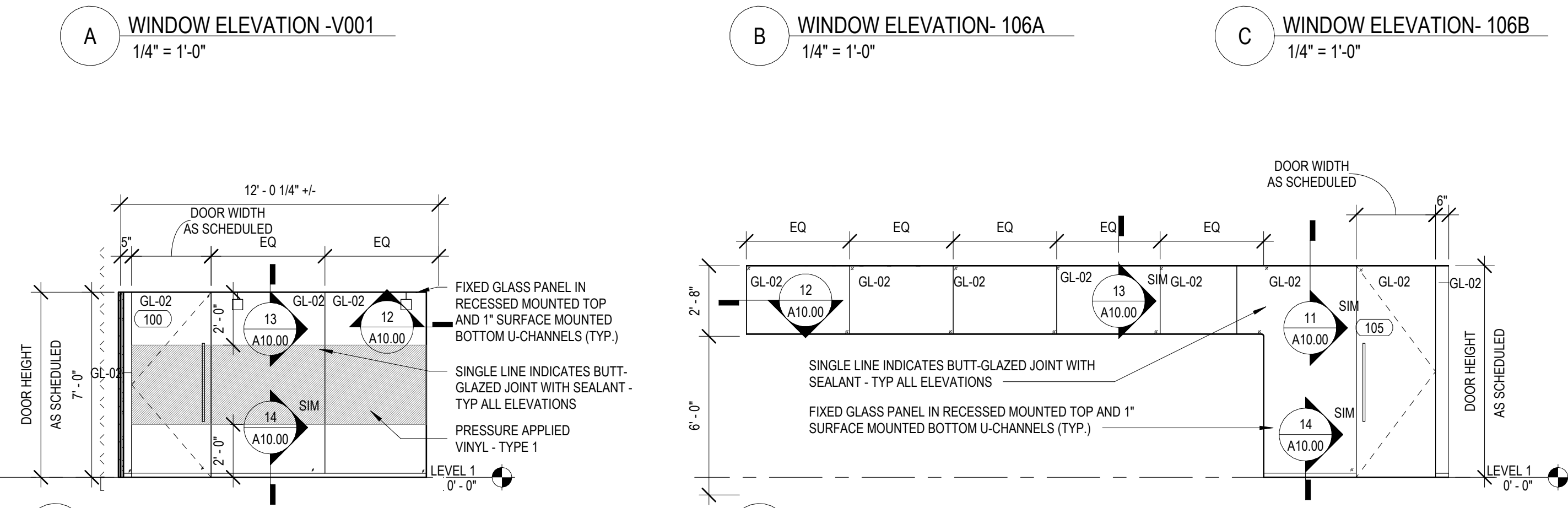
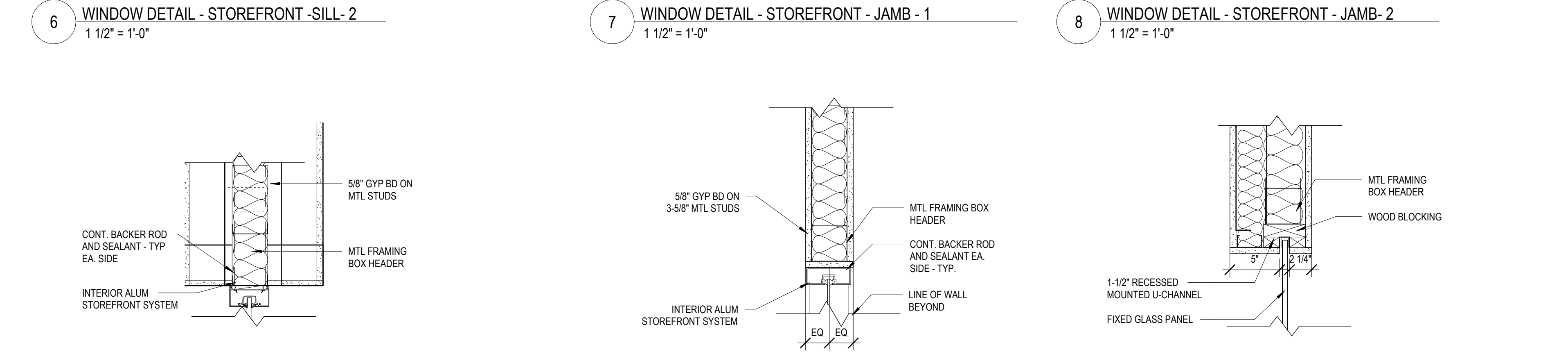
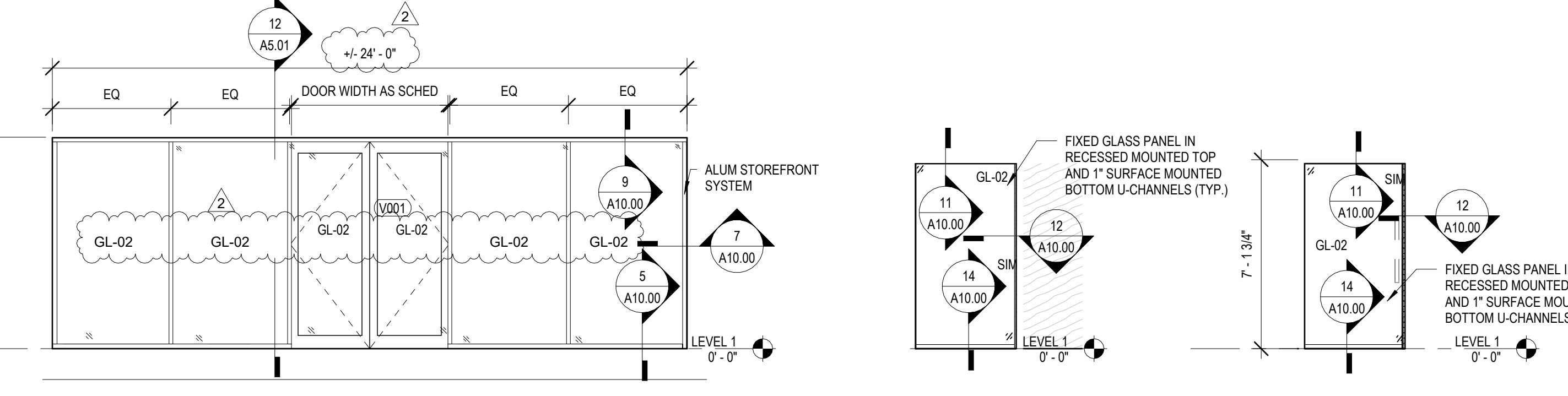
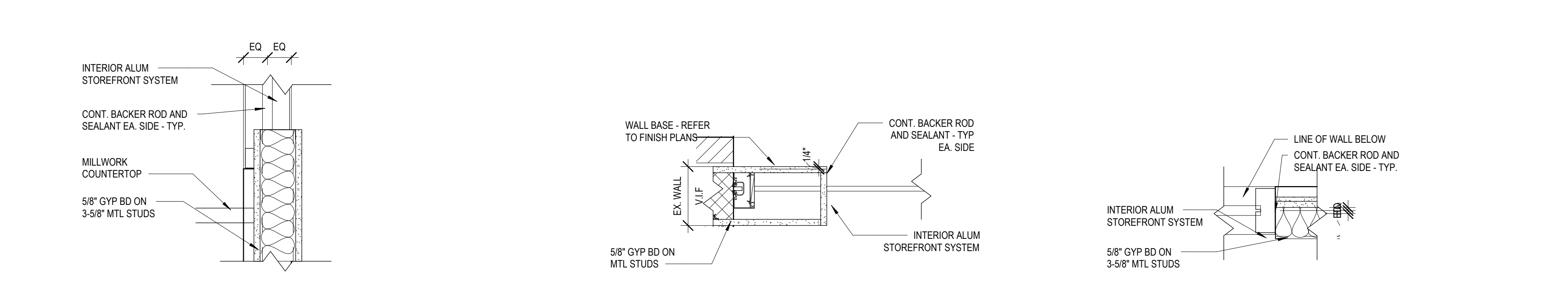
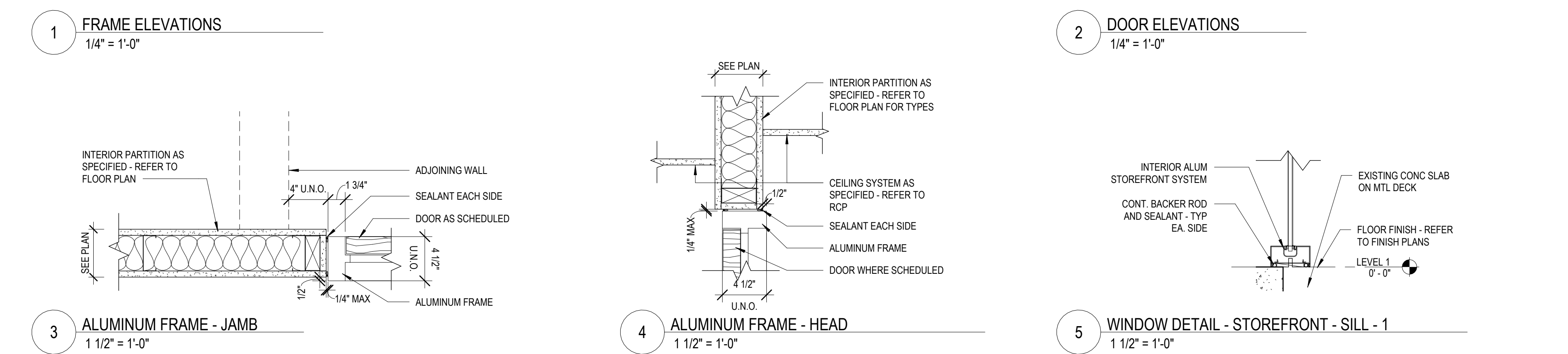
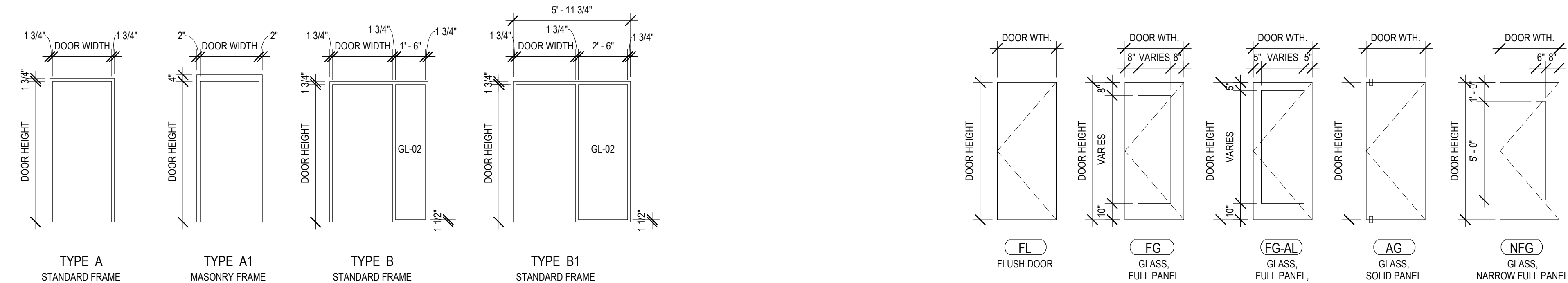
SHEET TITLE:
MILLWORK DETAILS

SHEET NUMBER:
A9.51

DOOR AND FRAME SCHEDULE

NUMBER	ROOM NAME	DOOR		MATERIAL	ELEV	GLAZING		FRAME		HARDWARE SET	REMARKS
		WIDTH	HEIGHT			TYPE	MATERIAL	ELEV			
100	GROUP STUDY	3'-0"	7'-0"	AG	AG	GL-02	-	-	12		
103	M. TOILET	3'-0"	7'-0"	WD	FL	-	-	AL	A 01	AUTO OPERATOR	
104	W. TOILET	3'-0"	7'-0"	WD	FL	-	-	AL	A 01	AUTO OPERATOR	
105	STUDENT LOUNGE / COLLABORATION	3'-0"	8'-0"	AG	AG	GL-02	-	-	12		
105A	GROUP STUDY	3'-0"	7'-0"	AG	AG	GL-02	-	-	12		
106	CONF.	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
107	SBDC CONF	3'-0"	7'-0"	AG	AG	GL-02	-	-	12		
108	OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
108	OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
109	SBDC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	B	04	CARD READERS (REFER TO TECH)	
110	COM ED OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
112	ADMIN OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
113	ADMIN OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
114	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
115	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
116	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
117	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
118	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
119	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
120	SHAH OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
121	SBDC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
122	COM ED OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
123	SBDC LIBRARY	3'-0"	7'-0"	WD	FG	GL-02	AL	B	04	CARD READERS (REFER TO TECH)	
124	COM ED OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
125	CLASSROOM	3'-0"	7'-0"	WD	FG	GL-02	AL	B	04	CARD READERS (REFER TO TECH)	
126	UC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
128	UC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
129	UC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
130	CLASSROOM	3'-0"	7'-0"	WD	FG	GL-02	AL	B	04	CARD READERS (REFER TO TECH)	
131	WORK RM	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
132	VIEW ROOM	3'-0"	7'-0"	WD	FG	GL-02	AL	A	07	CARD READERS (REFER TO TECH)	
133	UC OFFICE	3'-0"	7'-0"	WD	FG	GL-02	AL	A	04	CARD READERS (REFER TO TECH)	
134	NURSING SIM	4'-0"	7'-0"	WD	NFG	GL-01	AL	A	07	CARD READERS (REFER TO TECH)	
135	IT	3'-0"	7'-0"	WD	FL	-	-	AL	A 04	CARD READERS (REFER TO TECH)	
136	CONF.	3'-0"	7'-0"	WD	NFG	GL-01	AL	B	05	CARD READERS (REFER TO TECH)	
137	CLASSROOM	3'-0"	7'-0"	WD	FG	GL-02	AL	B	04	CARD READERS (REFER TO TECH)	
138	NURSING SIM	4'-0"	7'-0"	WD	NFG	GL-01	AL	A	07	CARD READERS (REFER TO TECH)	
140	VIEW ROOM	3'-0"	7'-0"	WD	FG	GL-02	AL	A	07	CARD READERS (REFER TO TECH)	
141	M. TOILET	3'-0"	7'-0"	WD	FL	GL-02	AL	A	01	AUTO OPERATOR	
142	W. TOILET	3'-0"	7'-0"	WD	FL	GL-02	AL	A	01	AUTO OPERATOR	
143	TOILET	3'-0"	7'-0"	WD	FL	GL-02	AL	A	02		
144	LACTATION	3'-0"	7'-0"	WD	FL	GL-02	AL	A	03	CARD READERS (REFER TO TECH)	
145	KITCHEN	3'-0"	7'-0"	WD	FL	-	-	AL	B 04	CARD READERS (REFER TO TECH)	
146	IT / ELECTRICAL	3'-0"	7'-0"	WD	FL	GL-02	AL	A	10	PANIC HARDWARE, CARD READERS (REFER TO TECH)	
147	CLASSROOM	3'-0"	8'-0"	WD	FG	GL-02	AL	B1	04	CARD READERS (REFER TO TECH)	
148	CLASSROOM	3'-0"	8'-0"	WD	FG	GL-02	AL	B1	04	CARD READERS (REFER TO TECH)	
149	CLASSROOM	3'-0"	8'-0"	WD	FG	GL-02	AL	B1	04	CARD READERS (REFER TO TECH)	
150.1	CONFERENCE	3'-0"	8'-6"	WD	FG	GL-02	AL	B	10	PANIC HARDWARE, CARD READERS (REFER TO TECH)	
150.2	CONFERENCE	3'-0"	8'-6"	WD	FG	GL-02	AL	B	10	PANIC HARDWARE, CARD READERS (REFER TO TECH)	
203	STORAGE	3'-0"	7'-0"	WD	FL	-	-	AL	A 04	CARD READERS (REFER TO TECH)	
204	JAN	3'-0"	7'-0"	WD	FL	-	-	AL	A 06	CARD READERS (REFER TO TECH)	
V001	VEST.	6'-0"	7'-10 3/4"	AG	AG	GL-02	-	-	08	PANIC HARDWARE	
V002.1	VEST.	6'-0"	7'-0"	AG	AG	GL-02	-	-	11	PANIC HARDWARE	
V002.2	VEST.	6'-0"	7'-0"	WD	FL	-	-	AL	A1 09	PANIC HARDWARE, CARD READERS (REFER TO TECH)	

GL-01	1/4" CLEAR FULLY TEMPERED FLOAT GLASS
GL-02	1/2" CLEAR FULLY TEMPERED FLOAT GLASS
GL-05	ONE-WAY VISION GLASS-VISIBILITY FROM VIEWING ROOM SIDE



ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
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 222 E CHURCH ST
 WOODSTOCK, ILLINOIS 60098
 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23
ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

SHEET TITLE:
DOOR SCHEDULE, ELEVATIONS, AND DETAILS

SHEET NUMBER:

A10.00



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 WOOD VENEER PANEL
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 DKA PROJECT NO: 22-050

FINISH PLAN SYMBOLS LEGEND:

- ⊗ WALL FINISH TYPE
- ⊖ WALL BASE TYPE
- ⊙ FLOOR FINISH TYPE

FINISH PLAN GENERAL NOTES:

- PAINT ALL EXPOSED CONDUIT, DUCTWORK, PIPING, ETC. IN ALL FINISHED SPACES. (PT-7) REFER TO INTERIOR FINISH PLANS AND REFLECTED CEILING PLANS FOR CLARIFICATIONS.
- PAINT ALL EXPOSED METAL ON EXTERIOR INCLUDING, BUT NOT LIMITED TO: CONDUIT, PIPING, FLASHING, MECHANICAL FLUES AND DUCTS, AND HOLLOW METAL FRAMES AND DOORS.
- PROVIDE CEMENTITIOUS SELF-LEVELING UNDERLAYMENT AT REMOVAL OF EXISTING FLOOR DRAINS AS REQUIRED TO PROVIDE A LEVEL SUBSTRATE FOR NEW FLOOR FINISH.
- ALL FINISHES ARE MONUMENTAL PER ROOM UNLESS NOTED OTHERWISE. HOLLOW METAL DOORS AND FRAMES TO BE PAINTED PT-8 UNLESS NOTED OTHERWISE. EXISTING HW FRAMES/DOORS WITHIN SCOPE TO BE REPAINTED/TOUCHED UP AS NEEDED WITH PT-4 U.N.O.
- AT ALL LOCATIONS WHERE CASEWORK IS TO BE INSTALLED, THE SUBSEQUENT BASE TYPE SPECIFIED FOR EACH ROOM SHALL BE INSTALLED OVER CASEWORK TOE KICKS UNLESS NOTED OTHERWISE. REFER TO FLOOR PLANS FOR CASEWORK LOCATIONS.
- PAINT ALL GYP. BD. CEILINGS PT-1 UNLESS NOTED OTHERWISE.
- ALL CARPET TILE TO BE INSTALLED QUARTER TURNED UNLESS SPECIFIED OTHERWISE.

WALL FINISH TYPES:

TYPE	DESCRIPTION	MANUFACTURER	NAME#COLOR
PT-1	GENERAL PAINT	BENJAMIN MOORE	2176-70 CHALK WHITE
PT-2	ACCENT PAINT	BENJAMIN MOORE	2060-10 SYMPHONY BLUE
PT-3	ACCENT PAINT	BENJAMIN MOORE	1476-SQUIRE TAIL
PT-4	ACCENT PAINT	BENJAMIN MOORE	2190-60 ABLONE
PT-5	ACCENT PAINT	BENJAMIN MOORE	2050-50 WATERFALL
PT-6	ACCENT PAINT	BENJAMIN MOORE	1610-FRENCH BERT
PT-7	ACCENT PAINT	BENJAMIN MOORE	1631 MIDNIGHT OIL
PT-8	ACCENT PAINT	BENJAMIN MOORE	1599 MARINA GRAY
WC-1	VINYL WALLCOVERING	WOLF-GORDON	HOLBORN FOG
WC-2	VINYL WALLCOVERING	MOMENTUM	TUMBLE - WHITE SPRUCE
WT-1	PORCELAIN TILE	FLORIDA TILE	SOHO CANVAS WHITE
LWP	LINEAR WOOD PANEL		SEE SPEC
WD-1	WOOD VENEER PANEL		RIFT CUT WALNUT VENEER OVER MDF, STAINED TO MATCH ARCHITECT'S SAMPLE
WD-2	WOOD VENEER PANEL		RIFT CUT WHITE OAK VENEER OVER MDF, STAINED TO MATCH ARCHITECT'S SAMPLE

WALL BASE TYPES:

TYPE	DESCRIPTION	MANUFACTURER	NAME#COLOR
RB1	4TH COVE RUBBER BASE	JOHNSONITE	63 BURNT LUMBER
RB2	4TH STRAIGHT RUBBER BASE	JOHNSONITE	63 BURNT LUMBER
RN	RUBBER NOSING RGN-XX-A	JOHNSONITE	63 BURNT LUMBER

FLOOR FINISH TYPES:

TYPE	DESCRIPTION	MANUFACTURER	NAME#COLOR
CPT-1	CARPET TILE	PATCRAFT	10467 SLOPE 00450 POINT INSTALL: MONOLITHIC
CPT-2	CARPET TILE	PATCRAFT	10466 RISE 00500 RATIO INSTALL: STAGGER
CPT-3	CARPET TILE	PATCRAFT	10468 RISE 00450 POINT INSTALL: STAGGER
T-1	PORCELAIN TILE	VIRGINIA TILE	MOOD WOOD BROWN 8x48
T-3	PORCELAIN TILE	VIRGINIA TILE	ALTA WHITE 24x48
SC	SEALED CONCRETE	SEE SPEC	COLOR CLEAR
LVT-1	LUXURY VINYL TILE	PATCRAFT HOMEGRAIN	CELLAR
WF-1	WOOD FLOOR	NYOREE FLOORING	MAPLE - BLACK FOREST (5 1/4")
QT-1	QUARTZ TILE	UPOFLOOR	MOSAIC CONGLOMERATE GRE
WLKF	WALK OFF MAT	SHAWCONTRACT	WELCOME II TILE -CHARCOAL

FLOOR TRANSITION TYPES:

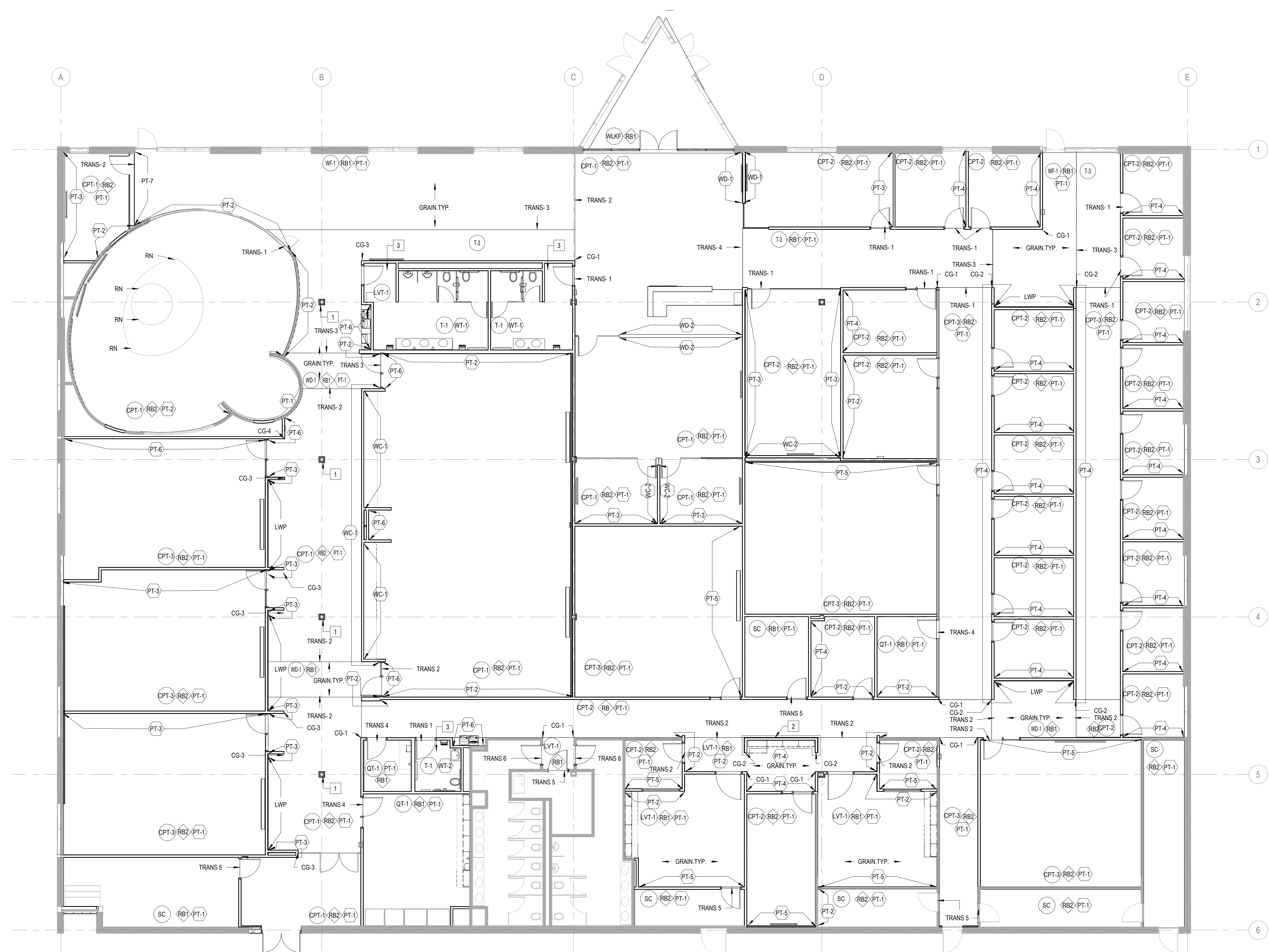
TYPE	DESCRIPTION	MANUFACTURER	NAME#COLOR
TRANS-1	TILE TO CARPET OR 1/4" TO 1/4"	JOHNSONITE	JOHNSONITE SUBFLOOR LEVELER TO BRING ADJACENT SURFACES FLUSH AND PROVIDE SCHLUTER SCHEINE BETWEEN FLOOR TYPES.
TRANS-2	CARPET TO WOOD OR 1/4" TO 1/2"	JOHNSONITE	JOHNSONITE SUBFLOOR LEVELER TO BRING ADJACENT SURFACES FLUSH AND PROVIDE SCHLUTER SCHEINE BETWEEN FLOOR TYPES.
TRANS-3	WOOD TO TILE OR 1/4" TO 1/4"	SCHLUTER	SCHLUTER SCHEINE
TRANS-4	CARPET TO QUARTZ TILE OR 1/4" TO 1/8"	TARKETT JOHNSONITE	SLIM LINE TRANSITION SLT-XX-A
TRANS-5	CARPET OR LVT TO SEALED CONCRETE OR 1/4" TO 0"	TARKETT JOHNSONITE	SLIM LINE TRANSITION SLT-XX-L
TRANS-6	LVT TO EXISTING TILE OR 1/4" TO 1/2" REDUCER	TARKETT JOHNSONITE	TARKETT JOHNSONITE REDUCER CRS-XX-A

CORNER GUARD

TYPE	MANUFACTURER	NAME#COLOR
CG-1	INPRO	1/2" X 3/4" ADHESIVE MOUNTED, 4 H. COLOR: DESIGNER WHITE 101
CG-2	INPRO	1/2" X 3/4" ADHESIVE MOUNTED, 4 H. COLOR: TAUPE 0113
CG-3	INPRO	1/2" X 3/4" ADHESIVE MOUNTED, 4 H. COLOR: MONSOON 0378
CG-4	INPRO	1/2" X 3/4" ADHESIVE MOUNTED, 4 H. COLOR: CASTLE 0256

FINISH PLAN REFERENCED NOTES:

- PAINT COLUMN WITH PT-6 AND RB BASE.
- REFER TO INTERIOR ELEVATIONS FOR EXTENT OF LWP.
- PROVIDE SCHLUTER DILEX-AHK AT ALL TILE FLOOR PERIMETER BETWEEN FLOOR AND WALL TILE AND VERTICAL INSIDE TILE CORNERS. PROVIDE SCHLUTER JOLLY AT ALL OUTSIDE TILE CORNERS.



1 FINISH PLAN
 1/8" = 1'-0"

KEY PLAN:

SHEET STATUS: 9.19.23
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NO.	DESCRIPTION:	DATE:
1	Addendum #2	10/2/23

SHEET TITLE:
FINISH PLAN

SHEET NUMBER:
A11.01



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 DKA PROJECT NO: 22-050

KEY PLAN:

SHEET STATUS: 9.19.23
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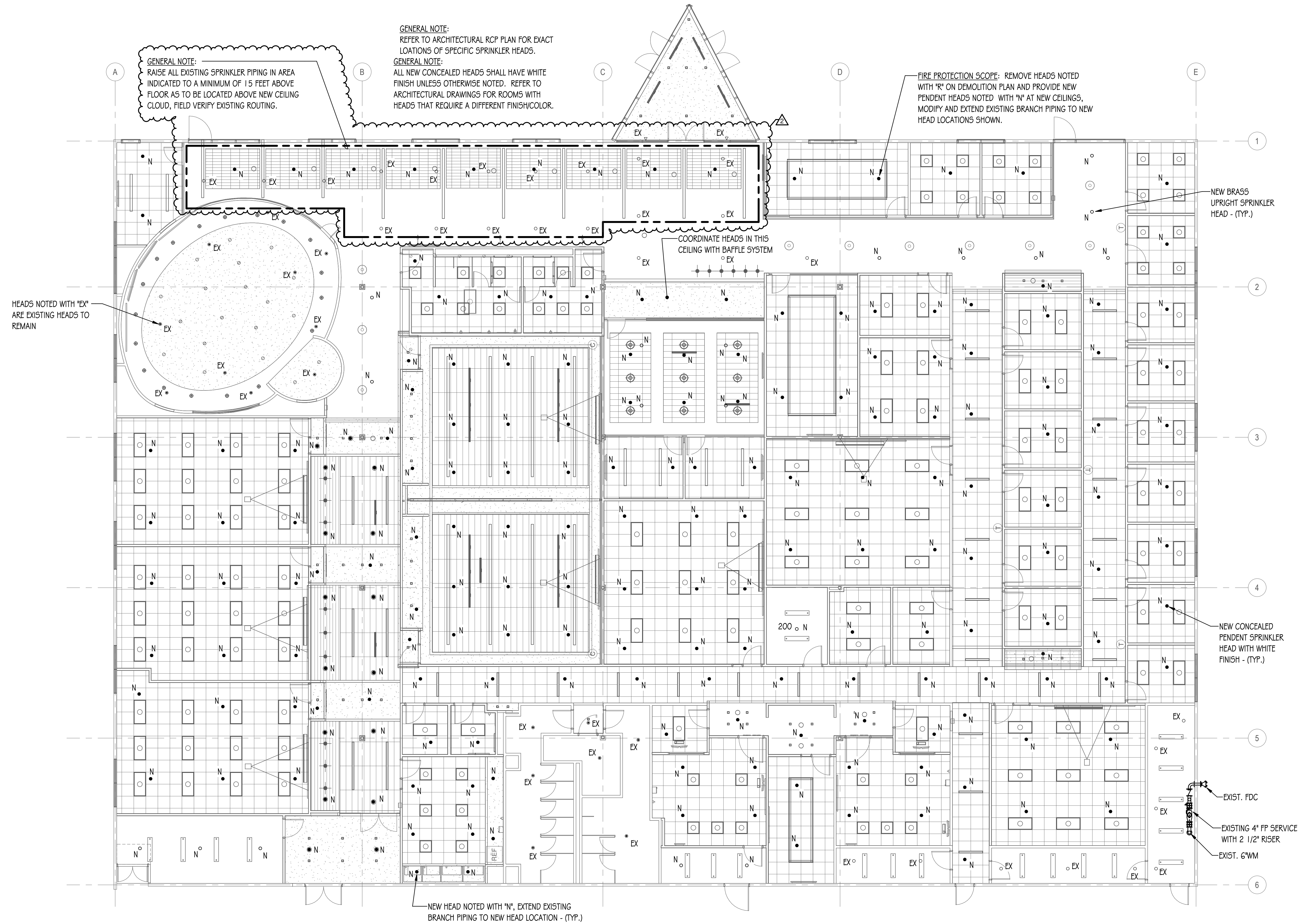
NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

SHEET TITLE:
FIRE PROTECTION PLAN

SHEET NUMBER:

FP1.00

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1 FIRE PROTECTION PLAN
 1/8" = 1'-0"



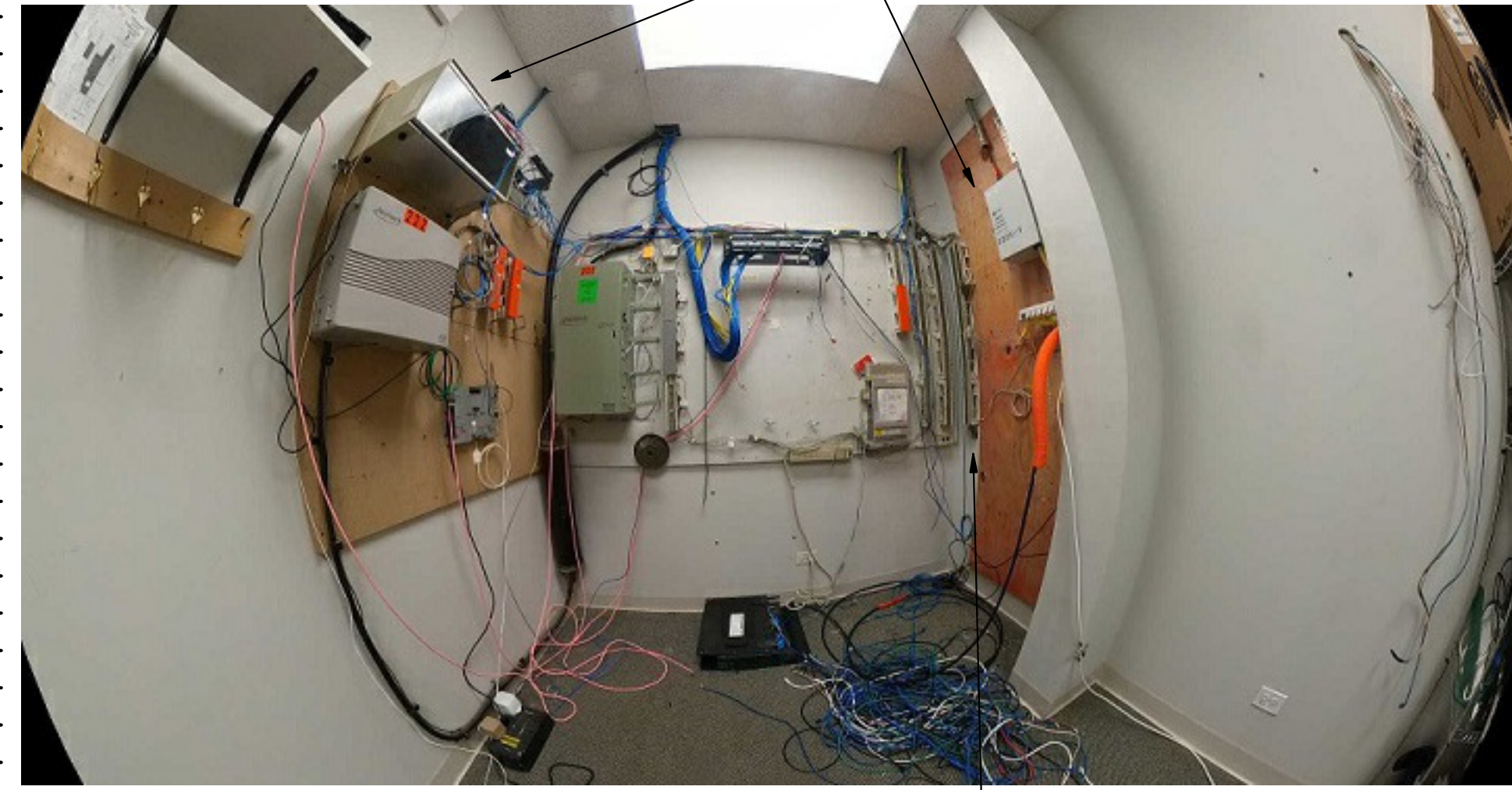
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DRAWING NOTES

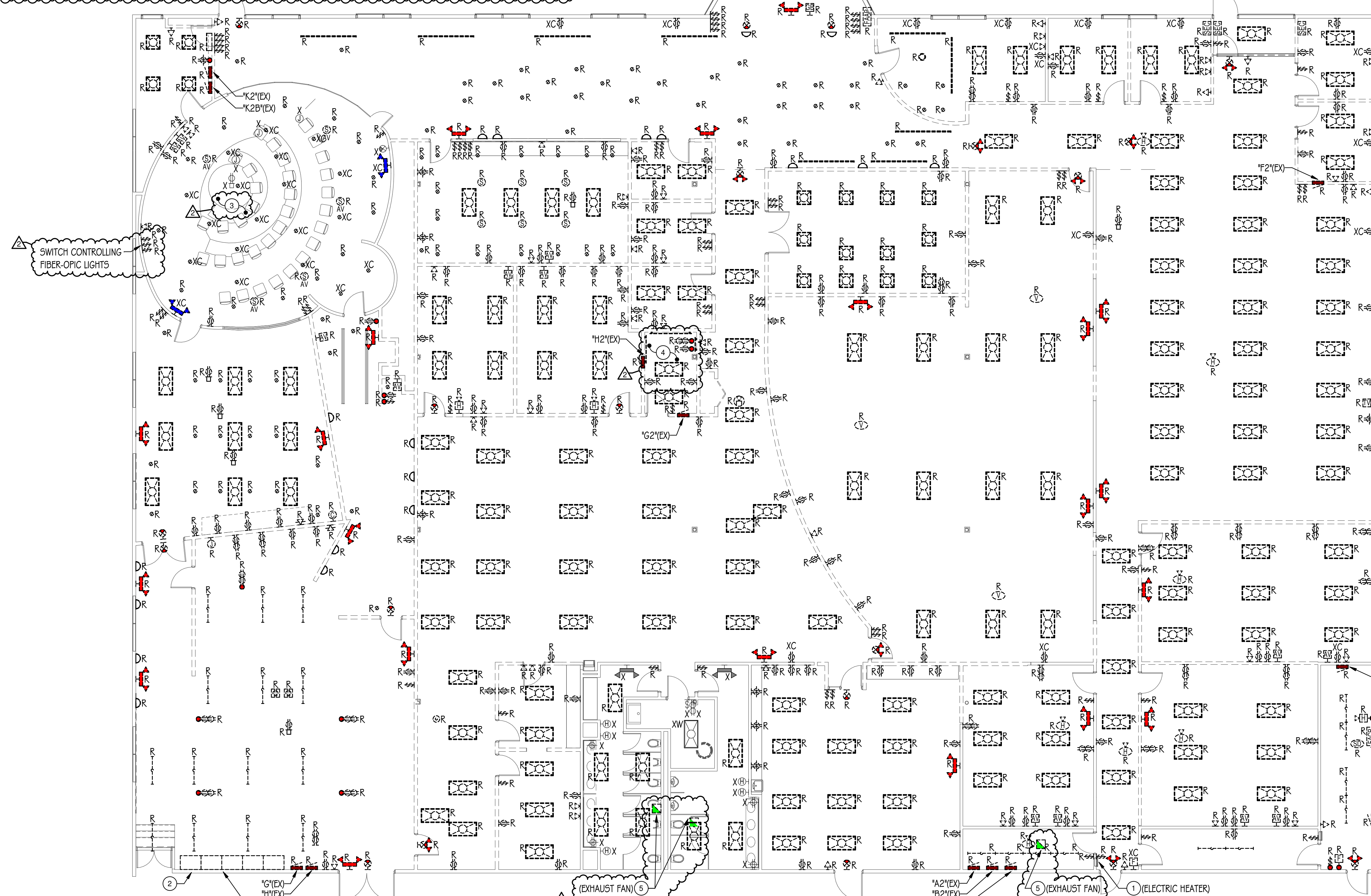
- EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT EXISTING ELECTRICAL FEED TO MAINTAIN PROPER OPERATION OF EQUIPMENT. AT THE SOURCE OF THE FEEDER, PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE FOR EXTENSION TO NEW PANEL "FP-3". CONDUCTORS SHALL BE MINIMUM SIZE OF #10AWG. INFORM ARCHITECT/ENGINEER IF OTHERWISE. TERMINATE BRANCH CIRCUITS TO NEW CIRCUIT BREAKERS OF SAME SIZE AS PREVIOUSLY INSTALLED. FIELD VERIFY EXACT REQUIREMENTS.
- DISCONNECT AND PULL BACK EXISTING EXTERIOR LIGHTING CIRCUITS TO REMAIN. PROTECT DURING CONSTRUCTION FOR EXTENSION TO NEW PANEL "LP-1". PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE TO MAINTAIN FUNCTIONALITY OF EXISTING EXTERIOR LIGHTING. FIELD VERIFY EXACT REQUIREMENTS.
- EXISTING FIBER-OPTIC LIGHTING AND ASSOCIATED POWER SUPPLY IN CEILING SPACE SHALL REMAIN AND PROTECTED DURING CONSTRUCTION.
- EXISTING PUNCHDOWN BLOCK AND ASSOCIATED TELECOMMUNICATION EQUIPMENT SHALL BE CAREFULLY DISCONNECTED, PROTECTED, AND STORED FOR RE-USE AND RE-INSTALLATION. EXISTING CABLES SHALL BE LABELLED, DISCONNECTED, PULLED BACK TO NEW ELECTRICAL 146 ROOM, COILED, AND PROTECTED TO ACCOMMODATE RENOVATION WORK. COORDINATE WORK TO DISCONNECT AND RELOCATE EXISTING EQUIPMENT AT DEMARCATION POINT WITH UTILITY COMPANY.
- ELECTRICALLY DISCONNECT EXISTING EQUIPMENT FOR REMOVAL. REMOVE ANY ASSOCIATED FIRE ALARM DEVICES, DISCONNECT SWITCHES, STARTERS, AND ALL CONDUITS AND CONDUCTORS BETWEEN UNIT AND PANEL. LEAVE CIRCUIT BREAKER AT OFF POSITION AND INDICATE CIRCUIT AS "SPARE" IN PANELBOARD DIRECTORY.



COORDINATE WORK TO DISCONNECT AND RELOCATE EXISTING EQUIPMENT AT DEMARCATION POINT WITH UTILITY COMPANY.

EXISTING PUNCHDOWN BLOCK AND ASSOCIATED TELECOMMUNICATION EQUIPMENT SHALL BE CAREFULLY DISCONNECTED, PROTECTED, AND STORED FOR RE-USE AND RE-INSTALLATION. EXISTING CABLES SHALL BE LABELLED, DISCONNECTED, PULLED BACK TO NEW ELECTRICAL 146 ROOM, COILED, AND PROTECTED TO ACCOMMODATE RENOVATION WORK.

2 EXISTING IT ROOM



REFER TO ELECTRICAL RISER DIAGRAM FOR ADDITIONAL INFORMATION ON EXISTING SWITCHBOARD ASSEMBLY.

1 ELECTRICAL DEMOLITION PLAN
 1/8" = 1'-0"

GENERAL DEMOLITION NOTE:
 CAREFULLY DISCONNECT, REMOVE AND TURN OVER REMOVED LOW VOLTAGE DEVICE/EQUIPMENT INCLUDING, BUT NOT LIMITED TO, WIRELESS ACCESS POINTS, SECURITY CAMERAS, SPECIALTY LIGHTING, AUDIO/VIDEO EQUIPMENT, AUDIO/VIDEO RACK, CARD READERS, ETC. TO OWNER'S REPRESENTATIVE.

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ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

SHEET TITLE:
ELECTRICAL DEMOLITION PLAN

SHEET NUMBER:
ED1.10



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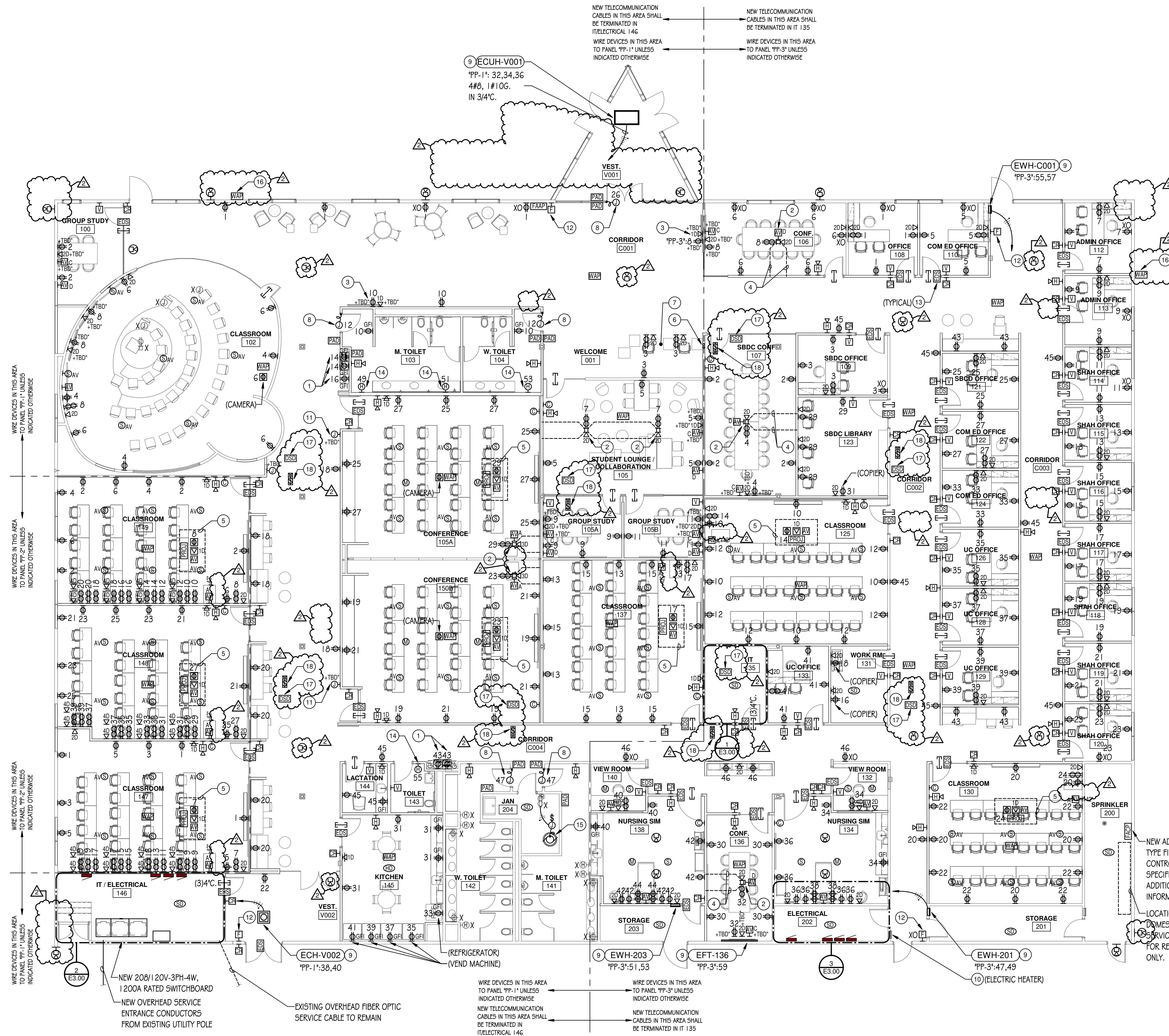
DRAWING NOTES

- INSTALL RECEPTACLE FOR ELECTRIC WATER COOLER (EWC) WITHIN EWC CABINET AS RECOMMENDED BY MANUFACTURER.
- PROVIDE FOUR-COMPARTMENT, ON-GRADE, CAST IRON FLOOR BOX AS MANUFACTURED BY LEGRAND WIREMOLD RFB4-CI SERIES OR EQUAL, WITH FLANGED COVER ASSEMBLY #FPB-C. COVER FINISH SHALL BE SELECTED BY THE ARCHITECT. PROVIDE ALL INTERNAL BRACKETS AS REQUIRED TO ACCOMMODATE BOTH POWER AND LOW VOLTAGE. ROUTE (1) 3/4" CONDUIT FOR POWER AND (2) 1/4" CONDUIT FOR LOW VOLTAGE. VERIFY FINAL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- FOR DISPLAY MONITOR. FIELD VERIFY EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- ROUTE IN SLAB 3/4" CONDUIT FOR POWER AND (2) 1/4" CONDUITS FOR LOW VOLTAGE TO NEAREST WALL FOR TRANSITION UP ACCESSIBLE CEILING SPACE. CONTRACTOR SHALL CHANNEL, PATCH AND REPAIR FLOOR TO MATCH SURROUNDING SURFACE. FIELD VERIFY EXACT REQUIREMENTS.
- DEVICES SHOWN SHALL BE LOCATED INSIDE CEILING MOUNTED ENCLOSURE / PROJECTOR MOUNT. REFER TO ELECTRICAL DETAILS SHEET FOR ADDITIONAL INFORMATION.
- PROVIDE NEW CONDUITS FOR FEED TO DEVICES IN MILLWORK. INSTALL (1) 3/4" CONDUIT FOR POWER AND (2) 1" EMPTY CONDUITS STUBBED TO ACCESSIBLE CEILING SPACE FOR LOW VOLTAGE CABLES. FIELD VERIFY EXACT REQUIREMENTS.
- DEVICES SHOWN SHALL BE RECESSED IN MILLWORK KNEEWALL. PROVIDE MINIMUM 3/4" CONDUITS FOR POWER, MINIMUM 1" CONDUITS FOR LOW VOLTAGE. CONDUITS SHALL BE ROUTED INSIDE UTILITY CHASE. REFER TO ARCHITECTURAL SHEETS FOR ADDITIONAL INFORMATION. COORDINATE INSTALLATION WITH MILLWORK CONTRACTOR AND FIELD VERIFY FINAL DEVICE LOCATION PRIOR TO ROUGH-IN.
- PROVIDE 120VAC CONNECTION AND JUNCTION BOXES FOR DOOR ACTUATOR, PUSH PADS AND ASSOCIATED WIRING PER MANUFACTURER'S INSTRUCTIONS FOR A COMPLETE AND OPERABLE SYSTEM. FIELD VERIFY FINAL LOCATION PRIOR TO ROUGH-IN.
- DISCONNECT SWITCH FURNISHED WITH EQUIPMENT, WIRED BY ELECTRICAL CONTRACTOR.
- EXISTING MECHANICAL EQUIPMENT TO REMAIN. PROTECT EXISTING ELECTRICAL FEED TO MAINTAIN PROPER OPERATION OF EQUIPMENT. AT THE SOURCE OF THE FEEDER, PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE FOR EXTENSION TO NEW PANEL "PP-3". CONDUCTORS SHALL BE MINIMUM SIZE OF #10AWG. INFORM ARCHITECT/ENGINEER IF OTHERWISE. TERMINATE BRANCH CIRCUITS TO NEW CIRCUIT BREAKERS OF SAME SIZE AS PREVIOUSLY INSTALLED. FIELD VERIFY EXACT REQUIREMENTS.
- FOR FUTURE ROOM SCHEDULER DEVICE. FIELD VERIFY EXACT HEIGHT AND LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- PROVIDE WITH PROTECTIVE CLEAR PLASTIC ENCLOSURE, HINGED AT THE TOP TO PERMIT LIFTING FOR ACCESS TO INITIATE ALARM. LIFTING THE COVER ACTUATES AN INTEGRAL BATTERY POWERED AUDIBLE HORN INTENDED TO DISCOURAGE FALSE-ALARM OPERATION. SAFETY TECHNOLOGY INTERNATIONAL, INC. #STI-1100 OR EQUAL.
- PROVIDE 120VAC CONNECTION TO LOW VOLTAGE TRANSFORMER FOR ELECTRIC STRIKE TO NEAREST RECEPTACLE BRANCH CIRCUIT. INSTALL AND WIRE PER DOOR MANUFACTURER'S INSTRUCTIONS FOR A COMPLETE AND OPERABLE SYSTEM.
- PROVIDE 120VAC, 20AMP, TOGGLE DISCONNECT SWITCH LOCATED IN THE ACCESSIBLE CEILING SPACE, WITHIN SIGHT OF THE HAND DRYER PER NEC ARTICLE 422.31(C).
- WIRE NEW DOMESTIC WATER CIRCULATION PUMP TO EXISTING RECEPTACLE BRANCH CIRCUIT CURRENTLY SERVING THIS AREA. FIELD VERIFY EXACT REQUIREMENTS.
- OUTDOOR WIRELESS ACCESS POINT. PROVIDE SURFACE MOUNTED BACKBOX AND 1" CONDUIT WITH INSULATED BUSHING STUBBED TO AN ACCESSIBLE CEILING LOCATION. ALL CONDUIT PENETRATIONS SHALL BE SEALED WATER-TIGHT PER ARCHITECT'S REQUIREMENTS. COORDINATE EXACT LOCATION WITH OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION.
- DUCT SMOKE DETECTOR. PROVIDE ALL CABLING, RELAYS, AND PROGRAMMING TO INTEGRATE DETECTOR AND PROGRAM UNIT SHUTDOWN UPON FIRE ALARM/DETECTOR ACTIVATION. INCLUDE ADDITIONAL RELAYS WHERE (1) DUCT DETECTOR SERVES A COMMON RETURN FOR MULTIPLE AIR HANDLING UNITS. PROVIDE MULTIPLE RELAYS WHERE MECHANICAL EQUIPMENT HAS MULTIPLE CONNECTIONS FOR SHUT DOWN UPON DETECTOR/FIRE ALARM SIGNAL. VERIFY QUANTITY OF RELAYS REQUIRED WITH MECHANICAL EQUIPMENT MANUFACTURER.
- KEYED DUCT SMOKE TEST SWITCH MOUNTED 96" A.F.F. OR ON ACoustICAL CEILING. PROVIDE BACKBOXES, CONDUITS AND CABLING TO DUCT SMOKE DETECTOR. COORDINATE WITH ARCHITECT FOR EXACT LOCATION. PROVIDE MACHINE MADE LABELS (P-TOUCH TYPE) ADHERED TO COVER PLATE TO INDICATE EQUIPMENT SERVED.

GENERAL FLOOR BOX NOTE:
 CONTRACTOR SHALL CONFIRM EXACT FLOOR BOX LOCATION WITH THE ARCHITECT AND LOCATE/REMOVE ANY EXISTING UTILITIES IN AREA BY EMPLOYING SERVICE TO SCAN THE FLOOR SLAB. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR ANY DAMAGES TO EXISTING UTILITIES DUE TO SAWCUTTING.

GENERAL NOTE:
 UNLESS INDICATED OTHERWISE, CONTRACTOR SHALL CHANNEL EXISTING DRYWALL AS REQUIRED TO CONCEAL CONDUITS AND RECESS MOUNTED JUNCTION BOXES FOR ELECTRICAL DEVICES. COORDINATE WALL PATCHING REQUIREMENTS WITH GENERAL TRADES CONTRACTOR. WHERE RECESS MOUNTING IS NOT FEASIBLE, INFORM ARCHITECT AND/OR GENERAL CONTRACTOR PRIOR TO INSTALLATION.

THERMOSTAT NOTE:
 REFER TO MECHANICAL PLANS FOR EXACT LOCATIONS OF THERMOSTAT/CARBON DIOXIDE DETECTORS. PROVIDE SINGLE GANG BACKBOX AND EMPTY 3/4" CONDUIT WITH PULL STRING STUBBED INTO AN ACCESSIBLE CEILING SPACE FOR INSTALLATION OF THERMOSTAT/CARBON DIOXIDE DETECTORS.



1 ELECTRICAL PLAN
 1/8" = 1'-0"

KEY PLAN:

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SHEET TITLE:
ELECTRICAL PLAN

SHEET NUMBER:
E1.10



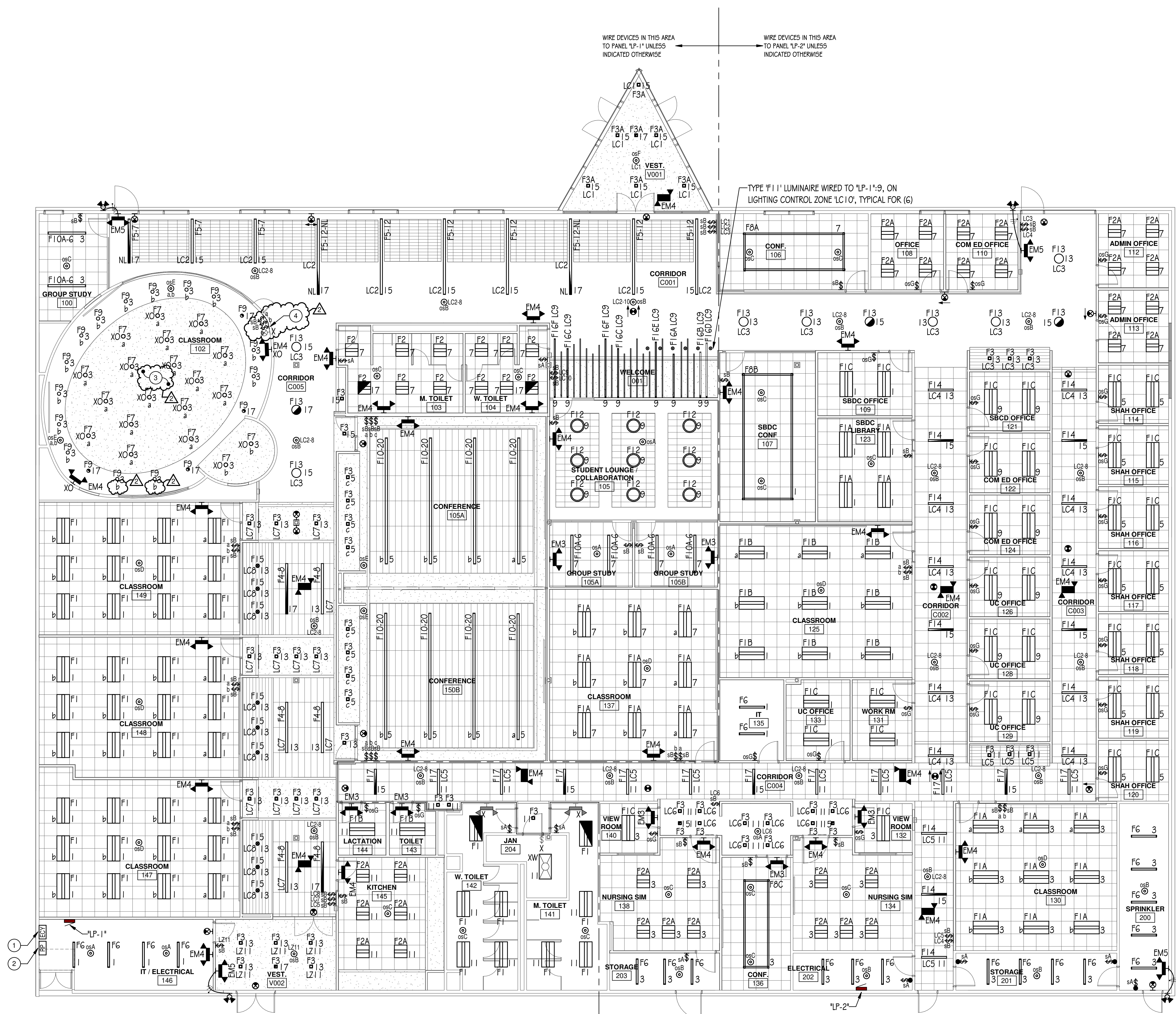
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DRAWING NOTES

- 1 PROVIDE NETWORK INTERFACE MODULE TO COMMUNICATE WITH NETWORKED LIGHTING ZONES. INCLUDE ALL NETWORK REQUIREMENTS FOR A COMPLETE AND OPERABLE SYSTEM.
- 2 PROVIDE RELAY PANEL WITH (8) RELAYS TO CONTROL EXISTING EXTERIOR LIGHTING CIRCUITS. RELAY PANEL SHALL BE ACUTY NIGHT #ARP-INTENC16-NLT-8FCR-MVOLT-HLK-SM-DTC OR APPROVED EQUAL WITH #RPA-APS-OL PHOTOSENSOR. LOCATE PHOTOSENSOR ON ROOF FACING NORTH. COORDINATE FINAL PHOTOSENSOR LOCATION WITH ARCHITECT.
- 3 EXISTING FIBER OPTIC LIGHTING AND ASSOCIATED POWER SUPPLY IN CEILING SPACE SHALL REMAIN AND PROTECTED DURING CONSTRUCTION.
- 4 PROVIDE ON/OFF TOGGLE SWITCH TO CONTROL EXISTING FIBER-OPTIC CABLE TO REMAIN. FIELD VERIFY EXACT REQUIREMENTS.



1 LIGHTING PLAN
 1/8" = 1'-0"

LIGHTING CONTROL NOTE:
 NEW LUMINAIRES DESIGNATED WITH LIGHTING ZONES 'LCX' SHALL BE CONNECTED TO A FULLY NETWORKED LIGHTING CONTROL SYSTEM. NOT ALL NETWORKED CONTROL DEVICES (BRIDGES, GATEWAYS, POWER SUPPLIES, ETC.) ARE SHOWN ON DRAWINGS. CONTRACTOR TO PROVIDE ALL DEVICES REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
SEQUENCE OF OPERATION
 • NORMAL LUMINAIRES:
 0% WHEN OCCUPANCY SENSOR DETECTS NO MOTION;
 100% WHEN OCCUPANCY SENSOR DETECTS MOTION.
 • NIGHT LIGHT LUMINAIRES:
 50% WHEN OCCUPANCY SENSOR DETECTS NO MOTION;
 100% WHEN OCCUPANCY SENSOR DETECTS MOTION.

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2	Addendum #3	10/6/23

SHEET TITLE:
LIGHTING PLAN

SHEET NUMBER:
E2.10



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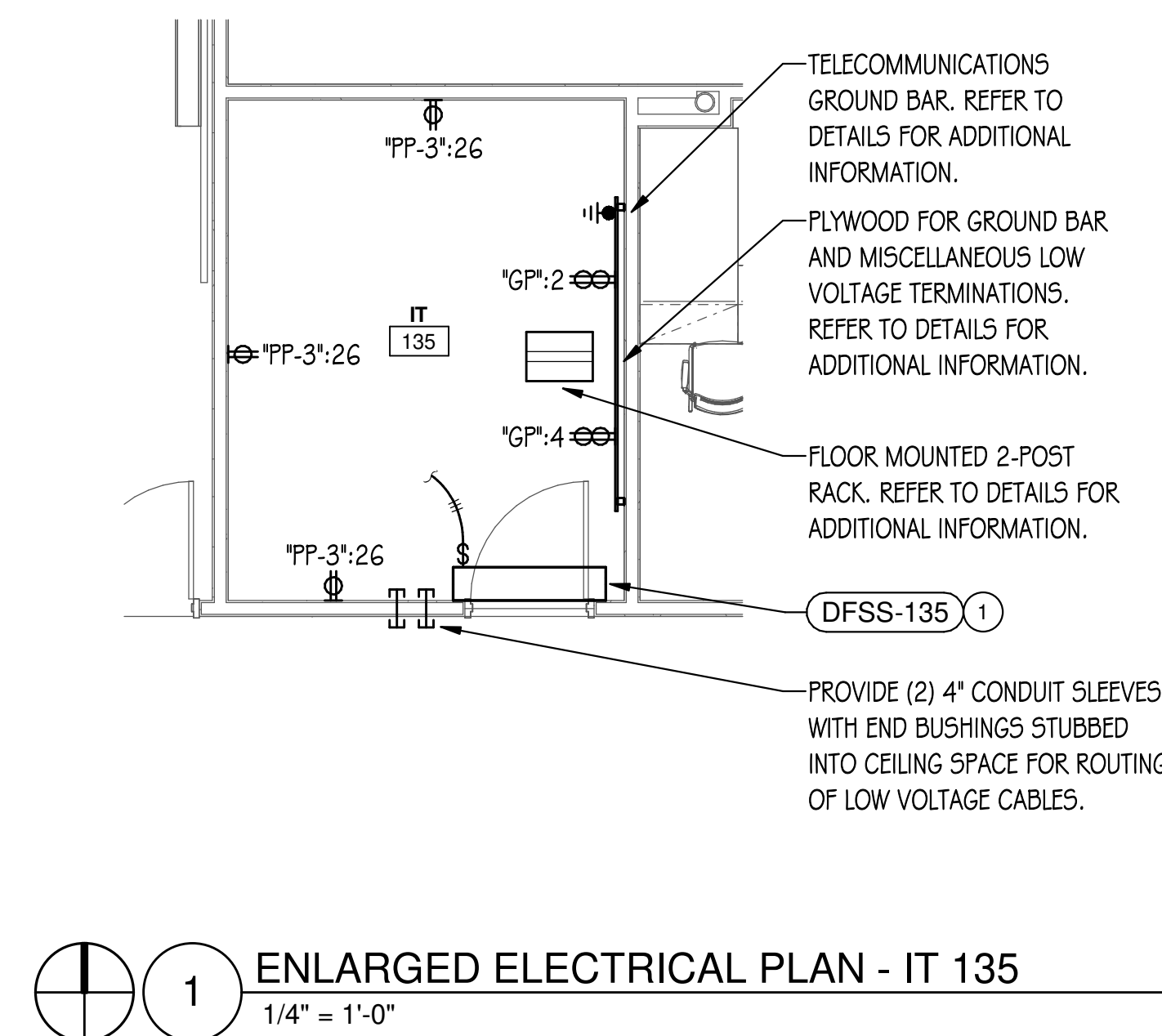
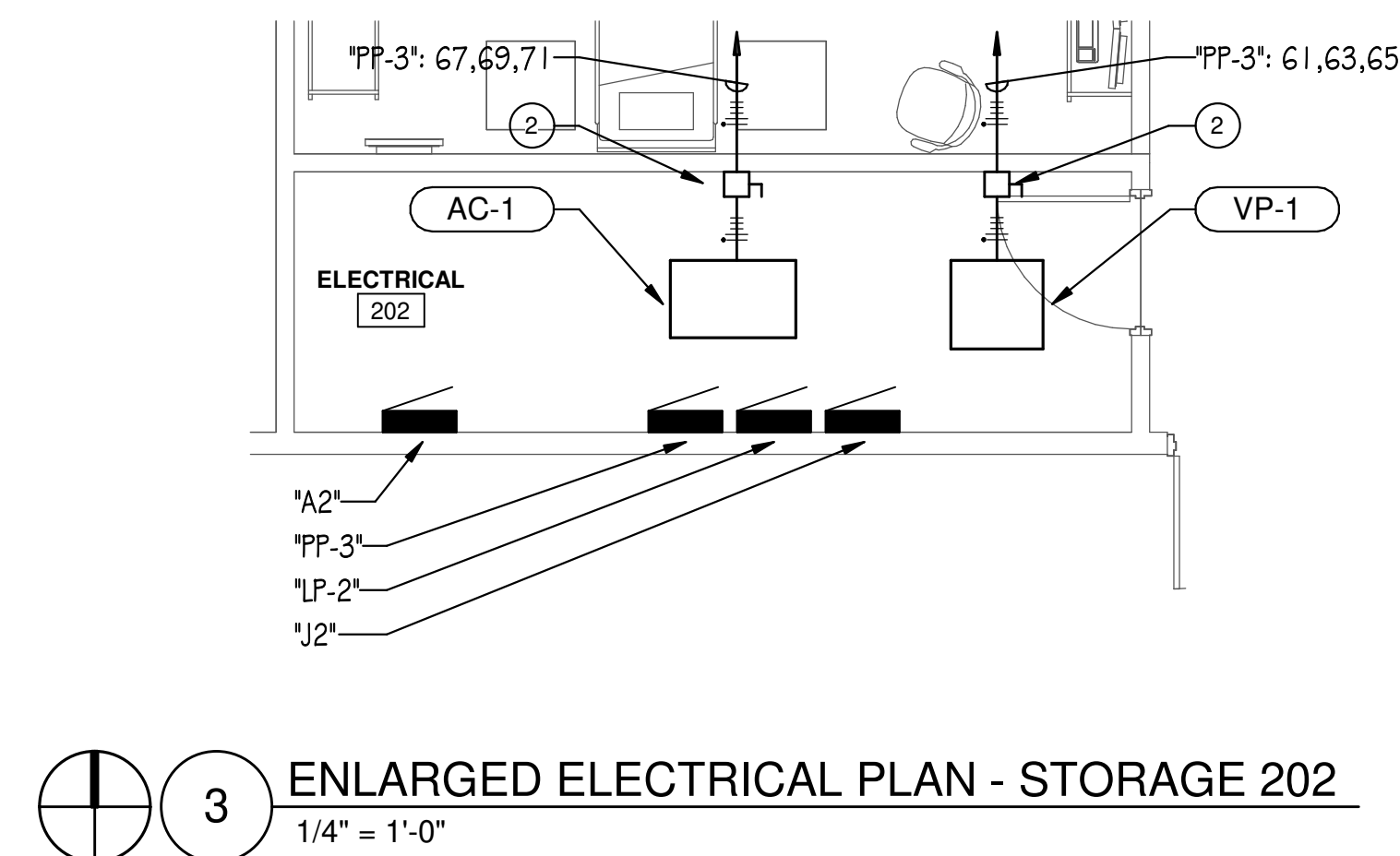
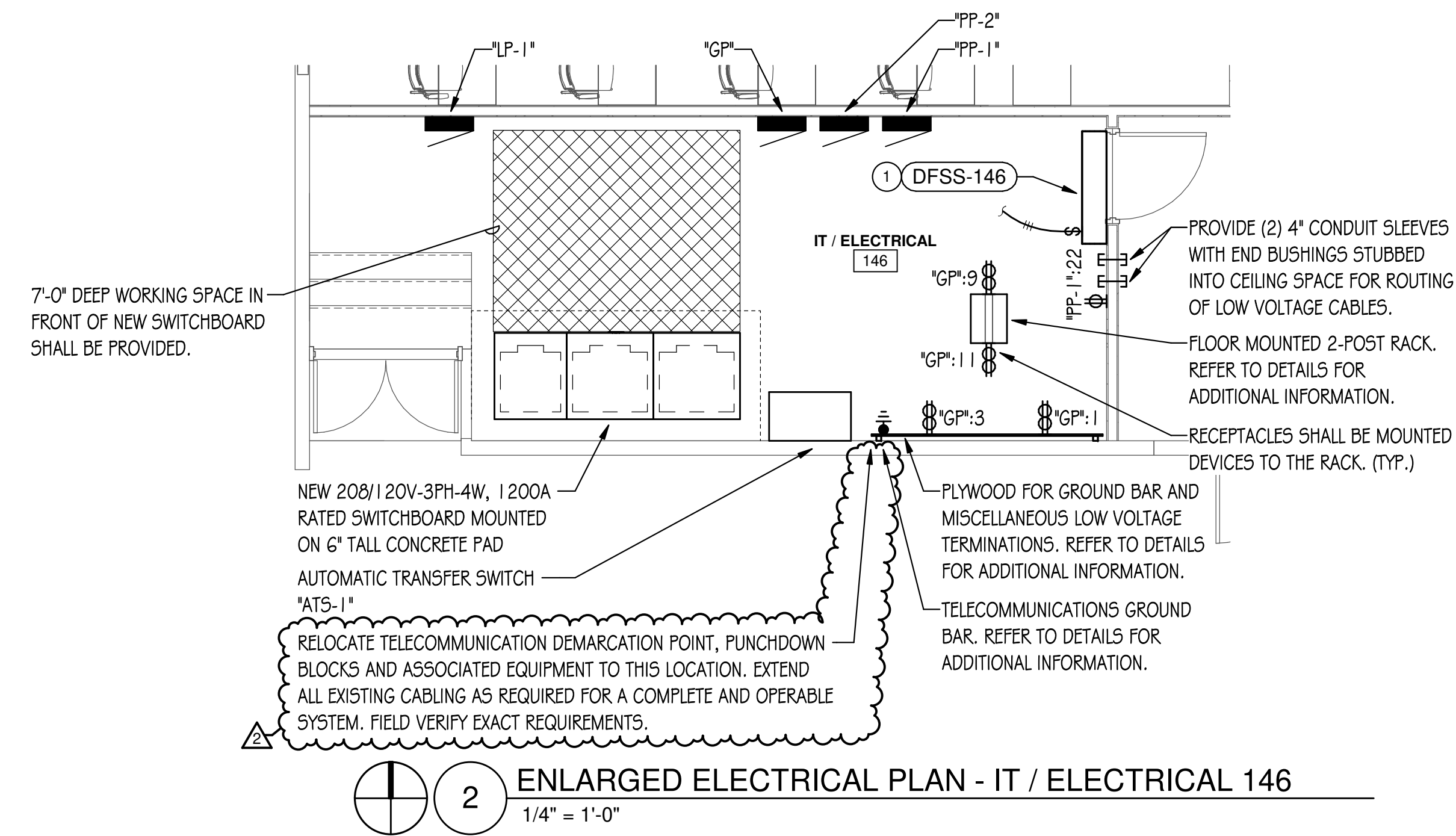
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 DKA PROJECT NO: 22-050

DRAWING NOTES

- INDOOR UNIT POWER IS SUPPLIED FROM OUTDOOR UNIT. PROVIDE 3#12 + 1#12G. IN 3/4" C. TO OUTDOOR UNIT INCLUDING ADDITIONAL WIRES IF REQUIRED PER MANUFACTURER'S INSTRUCTIONS. FOLLOW REFRIGERANT PIPING FOR ROUTING OF CONDUIT. NO EXCEPTIONS WILL BE ALLOWED. PROVIDE 240VAC, 20AMP, MOTOR RATED TOGGLE DISCONNECT SWITCH ADJACENT TO INDOOR UNIT WITH MACHINE MADE LABEL (P-TOUCH TYPE) INDICATING EQUIPMENT SERVED.
- PROVIDE 240VAC, 3-POLE, 30AMP, RATED NON-FUSIBLE DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT WITH OTHERS TO MAINTAIN 3-FOOT WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT.



KEY PLAN:

SHEET STATUS: 9.19.23
ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

SHEET TITLE:
**ENLARGED
 ELECTRICAL PLANS**

SHEET NUMBER:
E3.00

EXIT SIGN & EMERGENCY LIGHTING SCHEDULE								
SYMBOL	TAG	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	MANUFACTURER & CATALOG NUMBER	ALTERNATIVE MANUFACTURER	NOTES
	EM1	SELF POWERED EMERGENCY EXIT SIGN, SINGLE FACE, DIE CAST ALUMINUM HOUSING WITH WHITE FINISH AND RED LETTERS, FIELD KNOCKOUT ARROWS AS REQUIRED	TOP OR END MOUNT	LED	UNV	LITHONIA LIGHTING #LQC-W-1-R-ELN	HU DUAL-LITE, SIGNIFY CHLORIDE	I
	EM2	SELF POWERED EMERGENCY EXIT SIGN, SINGLE FACE, DIE CAST ALUMINUM HOUSING WITH WHITE FINISH AND RED LETTERS, FIELD KNOCKOUT ARROWS AS REQUIRED	WALL	LED	UNV	LITHONIA LIGHTING #LQC-W-1-R-ELN	HU DUAL-LITE, SIGNIFY CHLORIDE	I
	EM3	DUAL HEAD EMERGENCY LIGHTING UNIT WITH WHITE CONTEMPORARY THERMOPLASTIC ENCLOSURE	SURFACE/ WALL	LED	UNV	LITHONIA LIGHTING #ELMGL-UVOLT-LTP-SDRT	HU DUAL-LITE, SIGNIFY CHLORIDE	I
	EM4	DUAL HEAD EMERGENCY LIGHTING UNIT WITH WHITE CONTEMPORARY THERMOPLASTIC ENCLOSURE	SURFACE/ WALL	LED	UNV	LITHONIA LIGHTING #ELMGL-UVOLT-LTP-SDRT	HU DUAL-LITE, SIGNIFY CHLORIDE	I
	EM5	DUAL HEAD EMERGENCY LIGHTING UNIT WITH WHITE CONTEMPORARY THERMOPLASTIC ENCLOSURE AND WEATHER-PROOF REMOTE HEADS	SURFACE/ WALL	LED	UNV	LITHONIA LIGHTING #ELMRW-LP220L-DOBTD-X-T	HU DUAL-LITE, SIGNIFY CHLORIDE	I

NOTES:
1. CONNECT ALL DEVICES TO LOCAL UNSWITCHED NORMAL LIGHTING CIRCUIT.

GENERAL NOTES:
a. CONTRACTOR TO PROVIDE ALL NECESSARY MOUNTING HARDWARE AND LABOR FOR ALL DEVICES.
b. BATTERIES SHALL BE CAPABLE OF PROVIDING ILLUMINATION FOR A MINIMUM OF 90 MINUTES.
c. NOT ALL SYMBOLS WILL BE ACCOMPANIED BY TAGS ON THE FLOOR PLANS FOR CLARITY PURPOSES.

LIGHTING CONTROL DEVICES SCHEDULE					
SYMBOL	TYPE	DESCRIPTION	MOUNTING	MANUFACTURER & CATALOG NUMBER	ACCEPTABLE MANUFACTURERS
	ECY	LIGHTING SYSTEM CONTROLLER	WALL	ACUITY nLIGHT #nEVC-MVOLT-ENC	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osA	STANDARD RANGE 360°, LOW VOLTAGE, PASSIVE INFRARED	CEILING	ACUITY nLIGHT #nCM-9-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osB	EXTENDED RANGE 360°, LOW VOLTAGE, PASSIVE INFRARED	CEILING	ACUITY nLIGHT #nCM-10-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osC	STANDARD RANGE 360°, LOW VOLTAGE, DUAL TECHNOLOGY	CEILING	ACUITY nLIGHT #nCM-PDT-9-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osD	EXTENDED RANGE 360°, LOW VOLTAGE, DUAL TECHNOLOGY	CEILING	ACUITY nLIGHT #nCM-PDT-10-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osE	WIDE VIEW, CEILING MOUNT, LOW VOLTAGE, DUAL TECHNOLOGY WITH W/ BRACKET	CEILING	ACUITY nLIGHT #nWV-PDT-16-KIT	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osF	HIGH BAY RANGE 360°, LOW VOLTAGE, PASSIVE INFRARED	CEILING	ACUITY nLIGHT #nCM-6-RJB	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	osG	ON/OFF/DIM WALL SWITCH SENSOR, LOW VOLTAGE, DUAL TECHNOLOGY	WALL	ACUITY nLIGHT #nWSXA-PDT-LV-DX	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	sA	ON/OFF PUSHBUTTON CONTROL STATION	WALL	ACUITY nLIGHT #nPODMA	HUBBELL LIGHTING CONTROLS, WATTSTOPPER
	sB	ON/OFF/DIM PUSHBUTTON CONTROL STATION	WALL	ACUITY nLIGHT #nPODMA-DX	HUBBELL LIGHTING CONTROLS, WATTSTOPPER

GENERAL NOTES:
a. ALL SENSOR LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
b. ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX FEET FROM HVAC SUPPLY/RETURN VENTS.
c. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY & TIME DELAY SETTINGS (FOR NON-ADAPTIVE PRODUCTS) RECOMMENDED PLACEMENT, AND FIELD VERIFICATION OF CIRCUITS WITH IN RESPECT TO POWER PLACEMENT.
d. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS:
• ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT TO BE CONTROLLED.
• ONE POWER PACK IS REQUIRED FOR EACH ZONE.
• IF MULTIPLE CIRCUITS ARE TO BE CONTROLLED BY A SENSOR, AN AUXILIARY RELAY CAN BE USED IN CONJUNCTION WITH THE POWER PACK.
• THE MAXIMUM NUMBER OF SENSORS THAT CAN BE PUT ON A POWER PACK IS TO BE REDUCED BY ONE FOR EACH SLAVE PACK USED.
e. MOUNT CONTROL UNITS WITHIN JUNCTION BOXES INSTALLED PER ALL CODE REQUIREMENTS.
f. CONTROL WIRING BETWEEN SENSORS AND CONTROLS UNITS SHALL BE CLASS II, 18-24 AWG, STRANDED UL CLASSIFIED. ALL CONTROL CABLING SHALL BE PLENUM-RATED.
g. SENSORS MOUNTED OVER THE DOOR MUST BE PLACED ONE FOOT INSIDE THE THRESHOLD.
h. SENSOR PLACEMENT ON PLANS IS APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR ENGAGING A MANUFACTURER TO PRODUCE A MOTION SENSOR LAYOUT THAT IS COMPLIANT WITH THE GOVERNING ENERGY CODE.
i. CONTRACTOR IS RESPONSIBLE FOR ENSURING MOTION CONTROL OF ALL LOCATIONS SHOWN ON PLAN.
j. CONTRACTOR IS RESPONSIBLE FOR INSTALLING EQUIPMENT IN COMPLIANCE WITH LOCAL CODE.
k. PRODUCTS FROM SPECIFIED AND ACCEPTABLE MANUFACTURERS SHALL PROVIDE SAME LEVEL OF CONTROL.

LIGHTING CONTROL SEQUENCE OF OPERATION													
	VACANCY MODE	OCCUPANCY SENSOR		PHOTOSENSOR		SWITCH TYPE		TIME CLOCK		NOTES			
		OCCUPANCY MODE	SENSOR TIMEOUT PERIOD (MINUTES)	OCCUPIED LEVEL %	UNOCCUPIED LEVEL %	SWITCHING (ON/OFF)	DIMMING	TARGET LIGHT LEVEL (FC)	MANUAL (ON/OFF)		MANUAL (ON/OFF/DIM)	KEY SWITCH	SCHEDULED ON AT
TYPICAL CLASSROOM	X		20 MIN							X			
TYPICAL OFFICE	X		20 MIN							X			
TYPICAL STORAGE / MECHANICAL / ELECTRICAL	X		20 MIN							X			
TYPICAL RESTROOMS	X		20 MIN	100	0					X			
CORRIDOR	X		20 MIN	100	0					X			I
CORRIDOR - NIGHT LIGHTS	X		20 MIN	100	50					X			I
EXTERIOR LIGHTS						X					DUSK - 60MIN	DAWN + 60MIN	

NOTES:
1. REFER TO LIGHTING PLANS FOR ADDITIONAL CONTROL SEQUENCE NOTES.

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	MOUNTING	LAMPS	VOLTAGE	INPUT WATTS	MANUFACTURER & CATALOG NUMBER	ALTERNATE MANUFACTURER	NOTES	
F1	2X4' LED TROFFER, 4000 NOMINAL LUMENS	RECESSED	LED	120 V	30.5	LITHONIA LIGHTING #2BLT4-40L-ADP-G21-O-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I	
F1A	2X4' LED TROFFER, 4800 NOMINAL LUMENS	RECESSED	LED	120 V	39.3	LITHONIA LIGHTING #2BLT4-48L-ADP-G21-O-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I	
F1B	2X4' LED TROFFER, 6000 NOMINAL LUMENS	RECESSED	LED	120 V	46.6	LITHONIA LIGHTING #2BLT4-60L-ADP-G21-O-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I	
F1C	2X4' LED TROFFER, 7200 NOMINAL LUMENS	RECESSED	LED	120 V	59.2	LITHONIA LIGHTING #2BLT4-72L-ADP-G21-O-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I	
F2	2X2' LED TROFFER, 3300 NOMINAL LUMENS	RECESSED	LED	120 V	26.5	LITHONIA LIGHTING #2BLT2-33L-ADP-G21-O-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I	
F2A	2X2' LED TROFFER, 4000 NOMINAL LUMENS	RECESSED	LED	120 V	31	LITHONIA LIGHTING #2BLT2-40L-ADP-G21-O-LP840	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I	
F3	4' SQUARE LED DOWNLIGHT, 1000 NOMINAL LUMENS	RECESSED	LED	120 V	10.6	LITHONIA LIGHTING #LDN450-40-0454-WR-MVOLT-G21-O	HU PRESCOLITE, SIGNIFY LIGHTOLIER	I	
F3A	4' SQUARE LED DOWNLIGHT, 2500 NOMINAL LUMENS	RECESSED	LED	120 V	26.1	LITHONIA LIGHTING #LDN450-40-25154-WR-MVOLT-G21-O	HU PRESCOLITE, SIGNIFY LIGHTOLIER	I	
F4-8	8'-0" LONG LINEAR LED	RECESSED	LED	120 V	37.4	MARK LIGHTING #SL4L-LOP-8FT-FLP-TG-80CRI-40K-600LMF-120	HU LITECONTROL, SIGNIFY LEDALITE	I	
F5-7	7'-0" LONG LINEAR SUSPENDED LED	SUSPENDED	LED	120 V	32.8	MARK LIGHTING #S4PD-LFP-7FT-MSL7-80CRI-40K-600LMF-SCT-MIN I O-FL-MVOLT-WHTT-ZT-F272A-RDCY-BLKCY-BCRD-MCS	HU LITECONTROL, SIGNIFY LEDALITE	1,2	
F5-12	12'-0" LONG LINEAR SUSPENDED LED	SUSPENDED	LED	120 V	56.2	MARK LIGHTING #S4PD-LFP-12FT-MSL6-80CRI-40K-600LMF-SCT-MIN I O-FL-MVOLT-WHTT-ZT-F272A-RDCY-BLKCY-BCRD-MCS	HU LITECONTROL, SIGNIFY LEDALITE	1,2	
F5-12-NL	12'-0" LONG LINEAR SUSPENDED LED WITH NIGHT LIGHT SECTION	SUSPENDED	LED	120 V	56.2	MARK LIGHTING #S4PD-LFP-12FT-MSL6-80CRI-40K-600LMF-SCT-MIN I O-FL-MVOLT-WHTT-1-EC-ZT-F272A-RDCY-BLKCY-BCRD-MCS	HU LITECONTROL, SIGNIFY LEDALITE	1,2	
F6	4' LED STRIP LIGHT	SURFACE/ PENDANT	LED	120 V	31.8	LITHONIA LIGHTING #CLX-L48-5000LM-SEF-RD-MVOLT-G21-O-40K-80CRI-WH	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	-	
F7	6" ROUND RETROFIT LED DOWNLIGHT	SURFACE	LED	120 V	19	LITHONIA LIGHTING #LBRG-A102-SW11-AR-TRDL-155-WD-MVOLT-UGZ	HU COLUMBIA LIGHTING, SIGNIFY DAY-BRITE	I	
F8A	6x20' CUSTOM LINEAR LED	SURFACE	LED	120 V	288.6	AXIS LIGHTING #SCSPAT-R(6x20)-500-80-40-FL-NL-W-UNV-DP-1-5B15	FOCAL POINT, LUMENWERX	1,3	
F8B	8x20' CUSTOM LINEAR LED	SURFACE	LED	120 V	310.8	AXIS LIGHTING #SCSPAT-R(8x20)-500-80-40-FL-NL-W-UNV-DP-1-5B15	FOCAL POINT, LUMENWERX	1,3	
F8C	4x14' CUSTOM LINEAR LED	SURFACE	LED	120 V	199.8	AXIS LIGHTING #SCSPAT-R(4x14)-500-80-40-FL-NL-W-UNV-DP-1-5B15	FOCAL POINT, LUMENWERX	1,3	
F9	6" ROUND PENDANT LED DOWNLIGHT	PENDANT	LED	120 V	14.7	GOTHAM LIGHTING #EVOGPC-4015-WR-MD-MVOLT-G21-O-JBX-PCAN-512-DBL	HU PRESCOLITE, SIGNIFY LIGHTOLIER	1,2	
F10-20	20'-0" LONG DIRECT/INDIRECT LINEAR LED	SUSPENDED	LED	120 V	113.8	MARK LIGHTING #S4PID-LFP-20FT-MSL4-80CRI-40K-400LMF-DBW-180CRI-140K-1800LMF-BW-SCT-MIN I O-FL-DC-MVOLT-WHTT-F172A-RDCY-WHTCY-WCRD-MCS	HU LITECONTROL, SIGNIFY LEDALITE	1,2	
F10A-6	6'-0" LONG DIRECT/INDIRECT LINEAR LED	SUSPENDED	LED	120 V	67.1	MARK LIGHTING #S4PID-LFP-6FT-MSL6-80CRI-80CRI-40K-800LMF-DBW-180CRI-140K-1800LMF-BW-SCT-MIN I O-FL-DC-MVOLT-WHTT-F172A-RDCY-WHTCY-WCRD-MCS	HU LITECONTROL, SIGNIFY LEDALITE	1,2	
F11	LINEAR DECORATIVE LED PENDANT	PENDANT	LED	120 V	11	OCL #G51-PI-CF-30-CR-(FINISH)-LED1-40K-UNV-144-DM I	-	1,2	
F12	ROUND DECORATIVE LED PENDANT	PENDANT	LED	120 V	43	STRUCTURA #AURA-OVAL-D-3.5-L40-HO-(FINISH)-CF1-STD	-	1,2	
F13	CIRCULAR LED PENDANT	PENDANT	LED	120 V	65	DELRAY LIGHTING #L793-(FINISH)-(FINISH)-W40-M-I-D-CM I (LENGTH)	-	1,2	
F14	4'-0" LONG LINEAR LED WITH POP-DOWN LENS	SURFACE	LED	120 V	51	FOCAL POINT #FSM4LS-PD15-1-000LF-40K-1-C-UNV-LD1-SM-(FINISH)-4'	AXIS LIGHTING, LUMENWERX	-	
F15	DECORATIVE LED PENDANT	PENDANT	LED	120 V	75	CERCHIO LIGHTING #10148.E1.2.(FINISH)	-	1,2	
F16A	6'-10" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	30.7	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-6FT10IN	-	1,2,4	
F16B	7'-2" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	32.3	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-7FT2IN	-	1,2,4	
F16C	7'-9" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	34.9	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-7FT9IN	-	1,2,4	
F16D	8'-7" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	38.6	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-8FT7IN	-	1,2,4	
F16E	8'-9" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	39.4	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-8FT9IN	-	1,2,4	
F16F	9'-3" LONG DIRECT LINEAR LED WITH ACOUSTIC PANEL	SUSPENDED	LED	120 V	41.6	FOCAL POINT #ASM2S-RL-12-500LF-40K-1-C-UNV-LD1-J96BK-DTS-9FT3IN	-	1,2,4	
F17	4'-0" LONG LINEAR LED	RECESSED	LED	120 V	37	FOCAL POINT #FSM4L-FL1-000LF-40K-1-C-UNV-LD1-G1-WH-4FT0IN	AXIS LIGHTING, LUMENWERX	I	

NOTES:
1. CONTRACTOR TO PROVIDE ALL OPTIONS AND ACCESSORIES AS REQUIRED TO INSTALL LUMINAIRE IN VARYING CEILING TYPES AS SHOWN ON THE PLANS.
2. REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR EXACT SUSPENSION LENGTHS.
3. INCLUDE ALL CONNECTORS AND JOINT TO MATCH THE PATTERN/SHAPE SHOWN ON PLANS.
4. REFER TO ARCHITECTURAL RCP PLANS FOR EXACT LENGTH OF LUMINAIRE REQUIRED.

GENERAL NOTES:
a. CONTRACTOR TO PROVIDE NECESSARY MOUNTING HARDWARE AND LABOR FOR LUMINAIRES.
b. LAY IN CEILING GRID LUMINAIRES SHALL BE FOR USE WITH STANDARD 15/16" GRID SYSTEM.
c. CEILING TYPES, FINISHES AND HEIGHTS MAY VARY. SEE ARCHITECTURAL RCP PLANS FOR MORE INFO. CONTRACTOR TO COORDINATE & PROVIDE PROPER MOUNTING HARDWARE, FLANGE, AND ACCESSORIES AS REQUIRED.
d. ALL FINISH COLORS AND COLOR TEMPERATURES TO BE CONFIRMED BY THE ARCHITECT.



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MCHENRY COUNTY COLLEGE
UNIVERSITY CENTER AT MCC

222 E CHURCH ST
 WOODSTOCK, ILLINOIS 60098
 DKA PROJECT NO: 22-050

KEY PLAN:

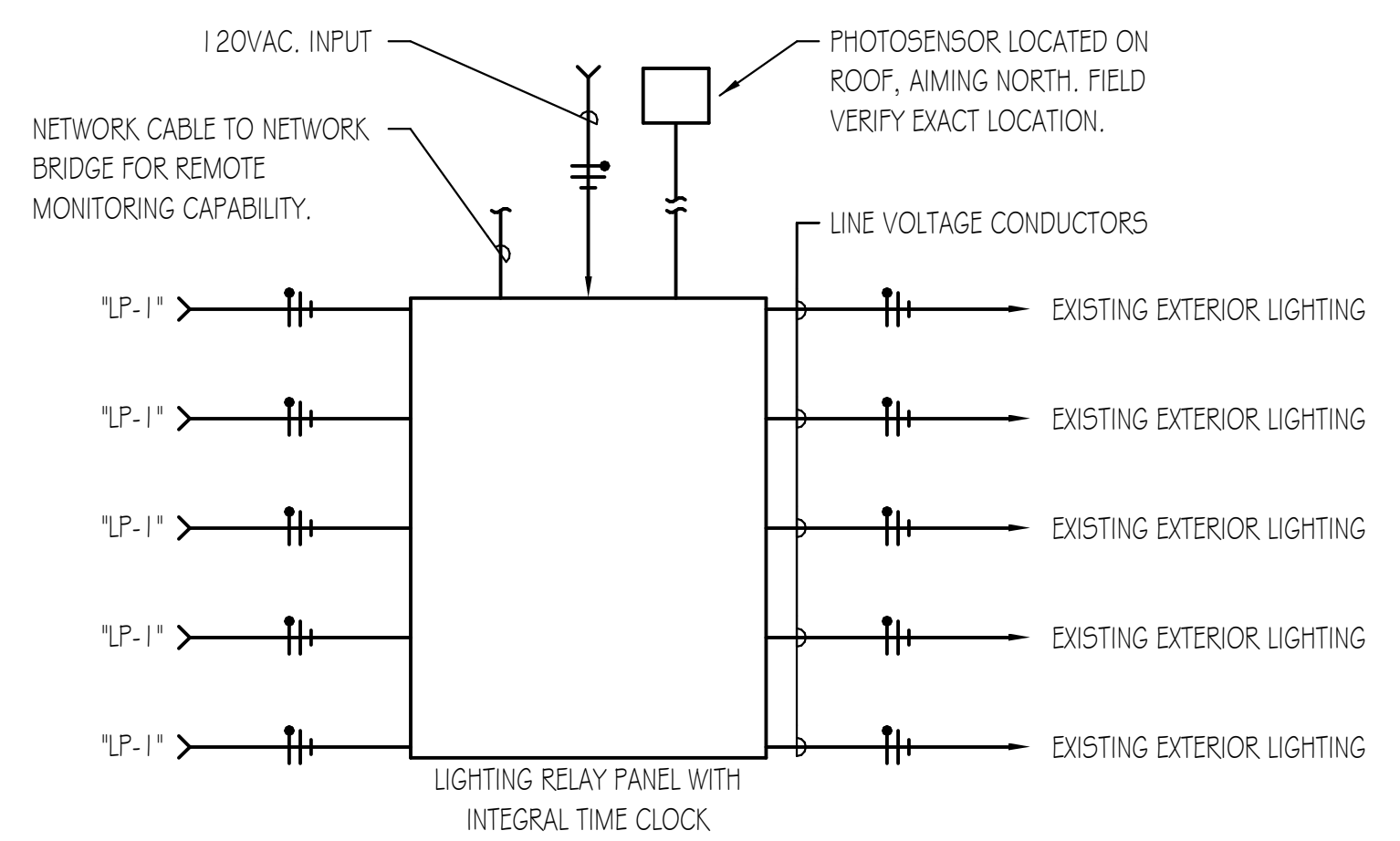
SHEET STATUS: 9.19.23
ISSUED FOR BIDS

NO.	DESCRIPTION	DATE
2	Addendum #3	10/6/23

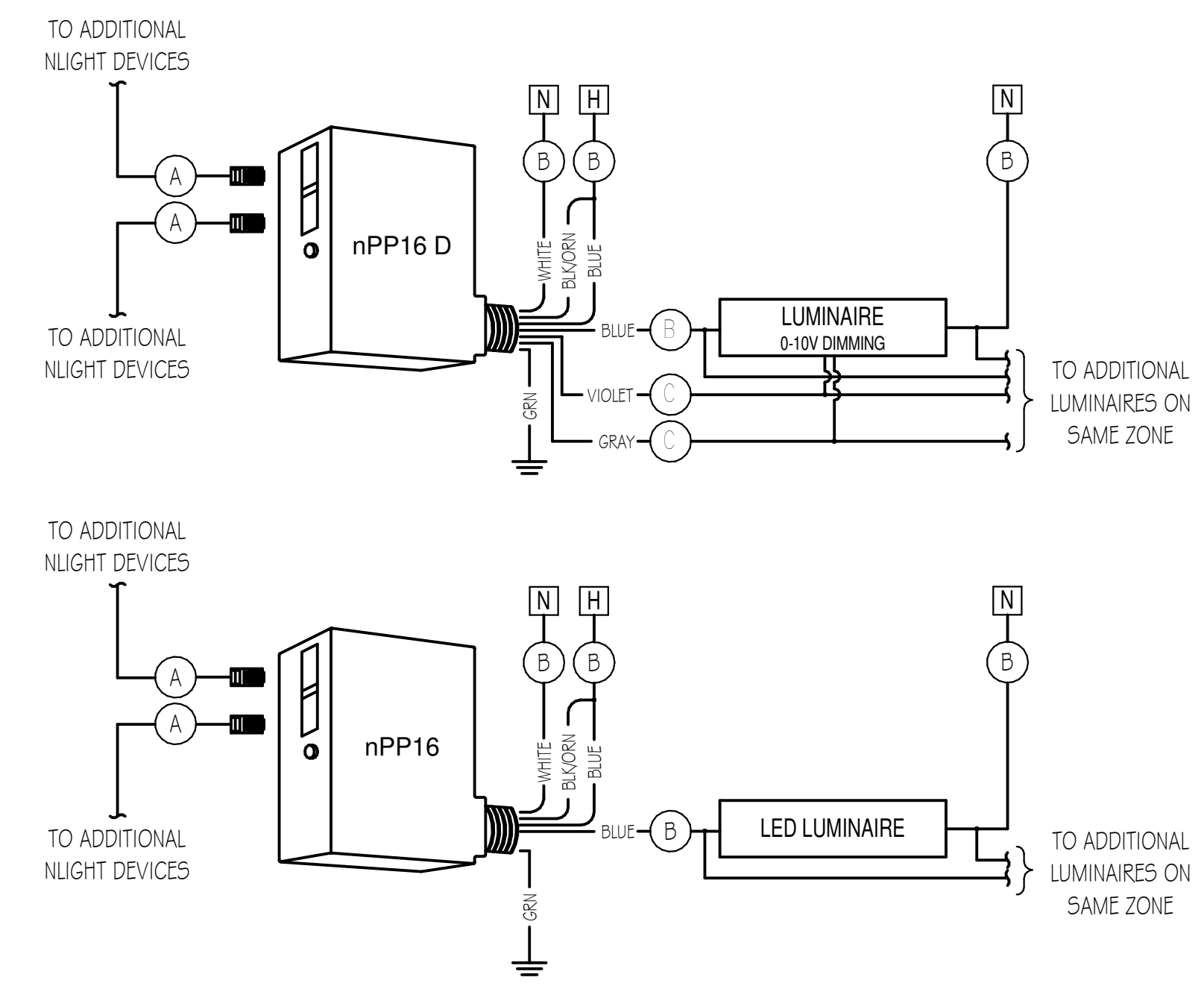
SHEET TITLE:
ELECTRICAL SCHEDULES

SHEET NUMBER:
E6.00

10/6/2023 1:20:06 PM



EXTERIOR LIGHTING CONTROL SCHEMATIC DIAGRAM
 NO SCALE

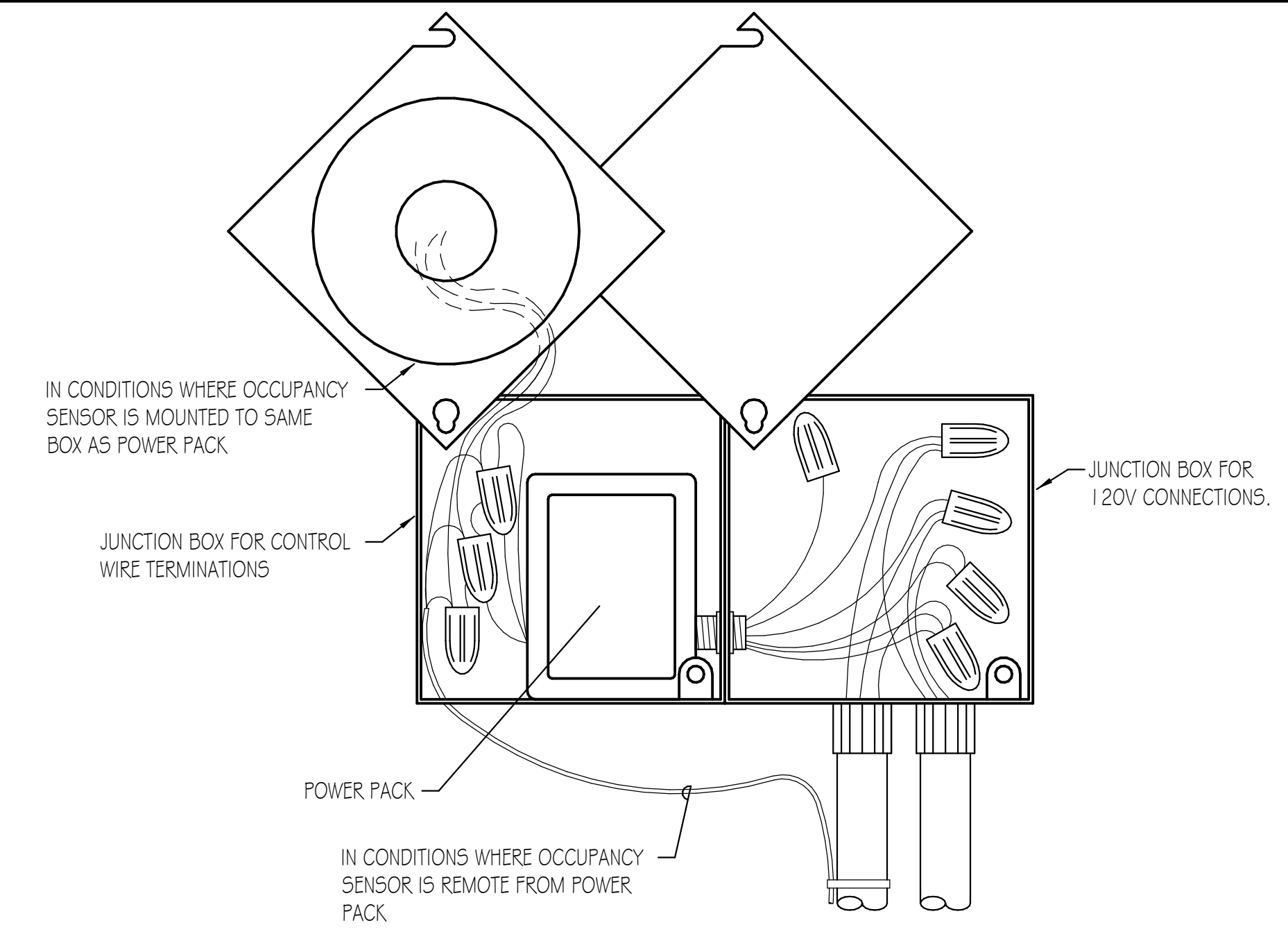


TYPICAL POWER PACK WIRING DIAGRAM
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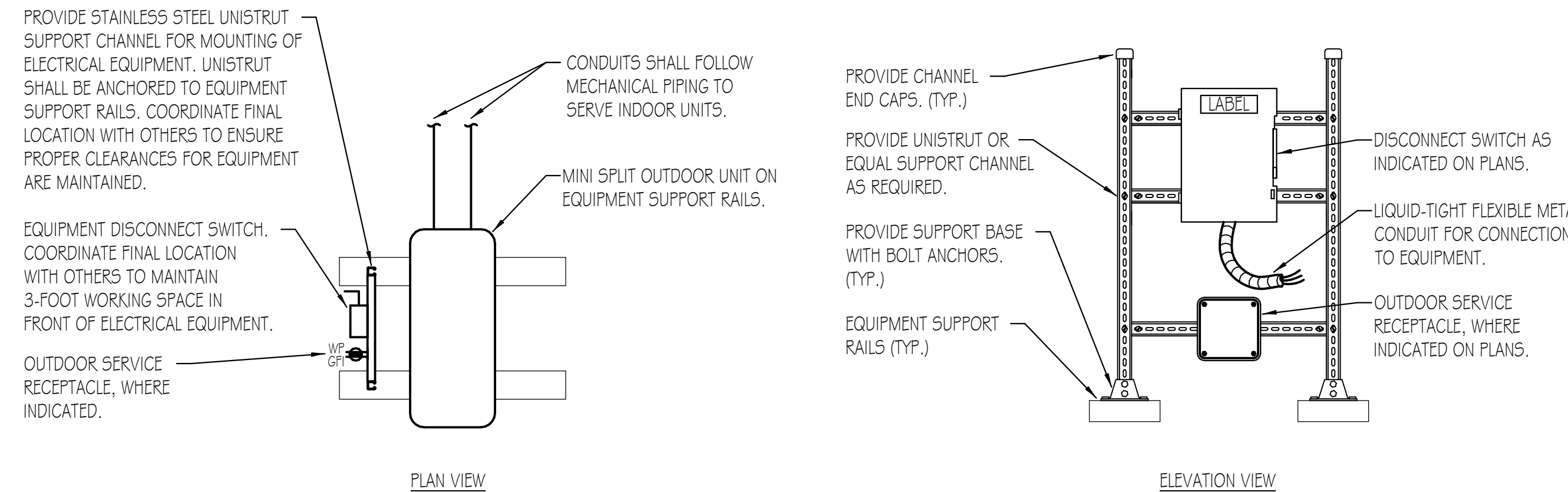
NOTES:
 1. DETAIL FOR REFERENCE ONLY FOR BASIS OF DESIGN. REFER TO MANUFACTURER'S WIRING DIAGRAMS IF ALTERNATE MANUFACTURER IS USED.

WIRE LEGEND

A	PLENUM-RATED CAT 5e (CLASS 2)
B	LINE VOLTAGE
C	0-10 VDC

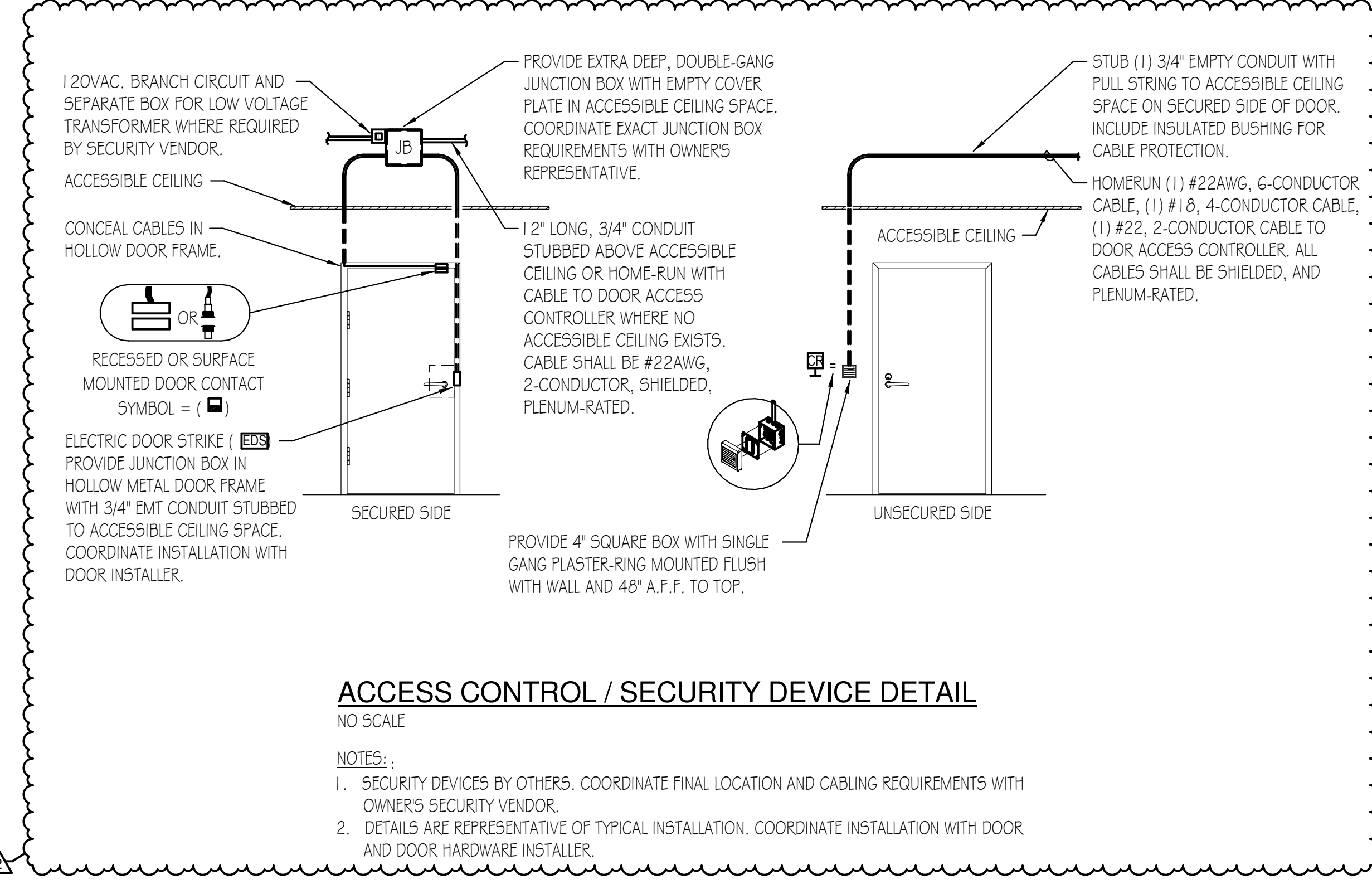


OCCUPANCY SENSOR POWER PACK DETAIL
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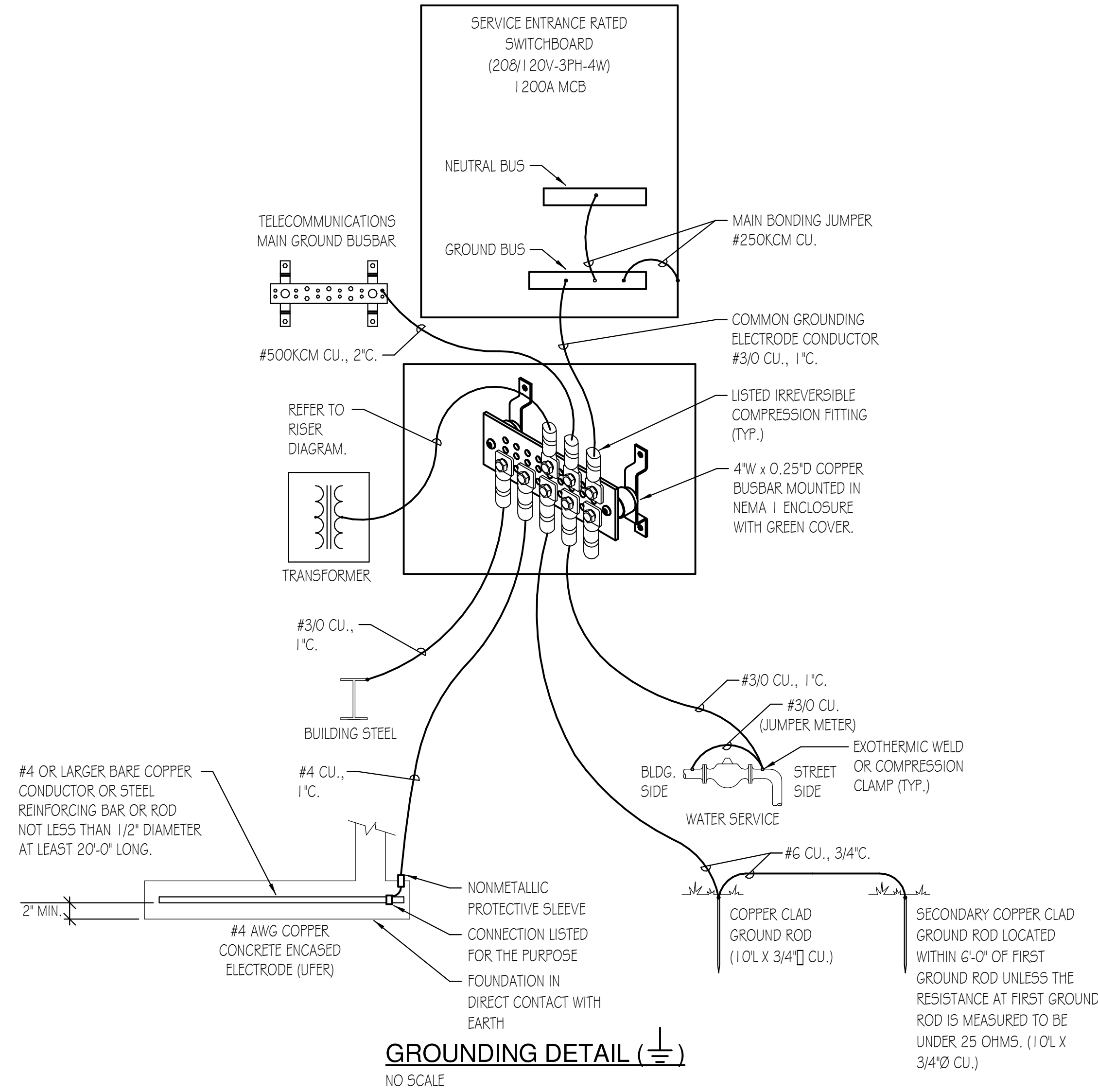
MINI-SPLIT MECHANICAL UNIT INSTALLATION DETAIL
 NO SCALE

NOTES:
 1. INCLUDE BRACING HARDWARE FOR STABILITY WHERE DISCONNECT MOUNTING IS REQUIRED.

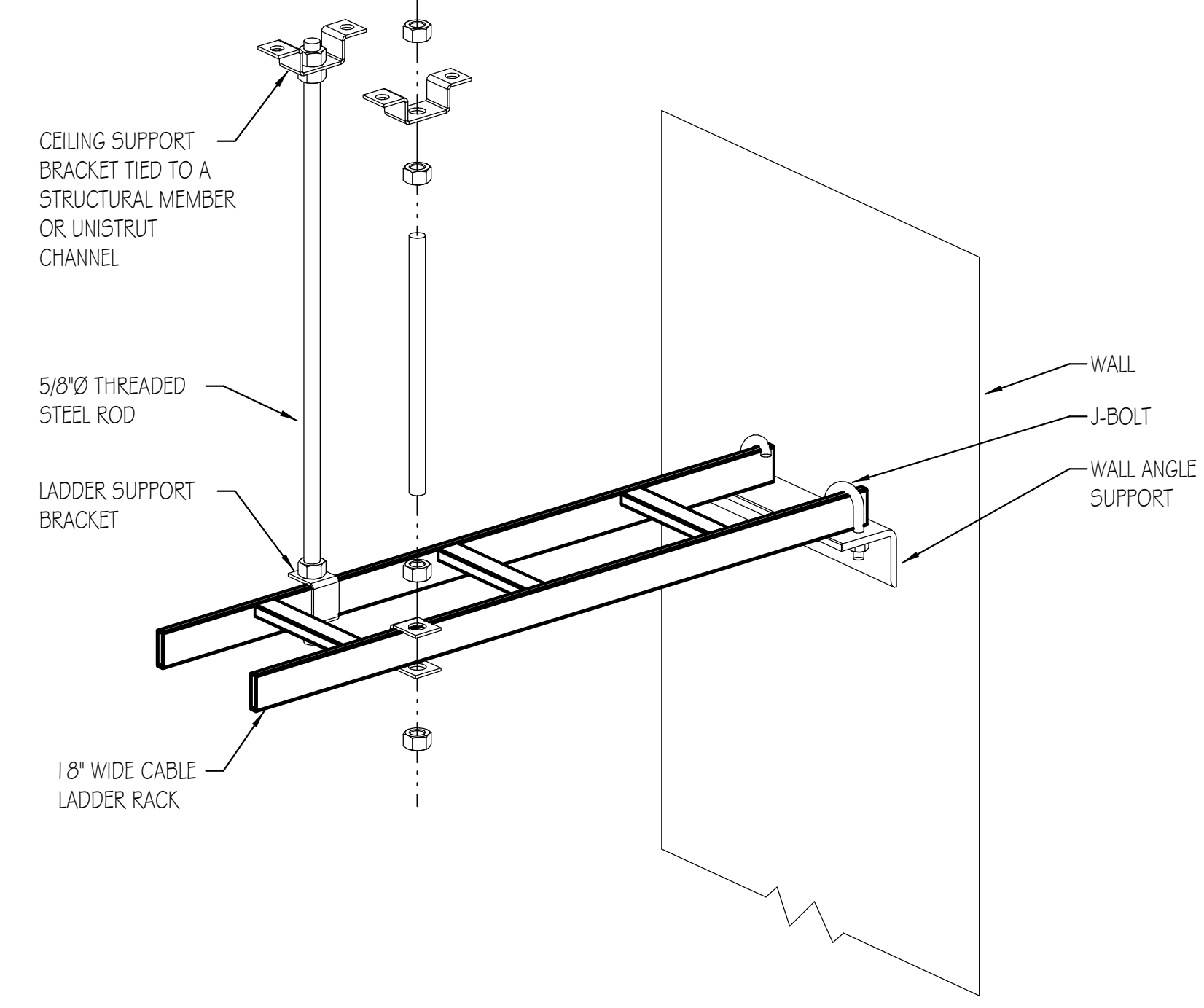


ACCESS CONTROL / SECURITY DEVICE DETAIL
 NO SCALE

NOTES:
 1. SECURITY DEVICES BY OTHERS. COORDINATE FINAL LOCATION AND CABLING REQUIREMENTS WITH OWNER'S SECURITY VENDOR.
 2. DETAILS ARE REPRESENTATIVE OF TYPICAL INSTALLATION. COORDINATE INSTALLATION WITH DOOR AND DOOR HARDWARE INSTALLER.

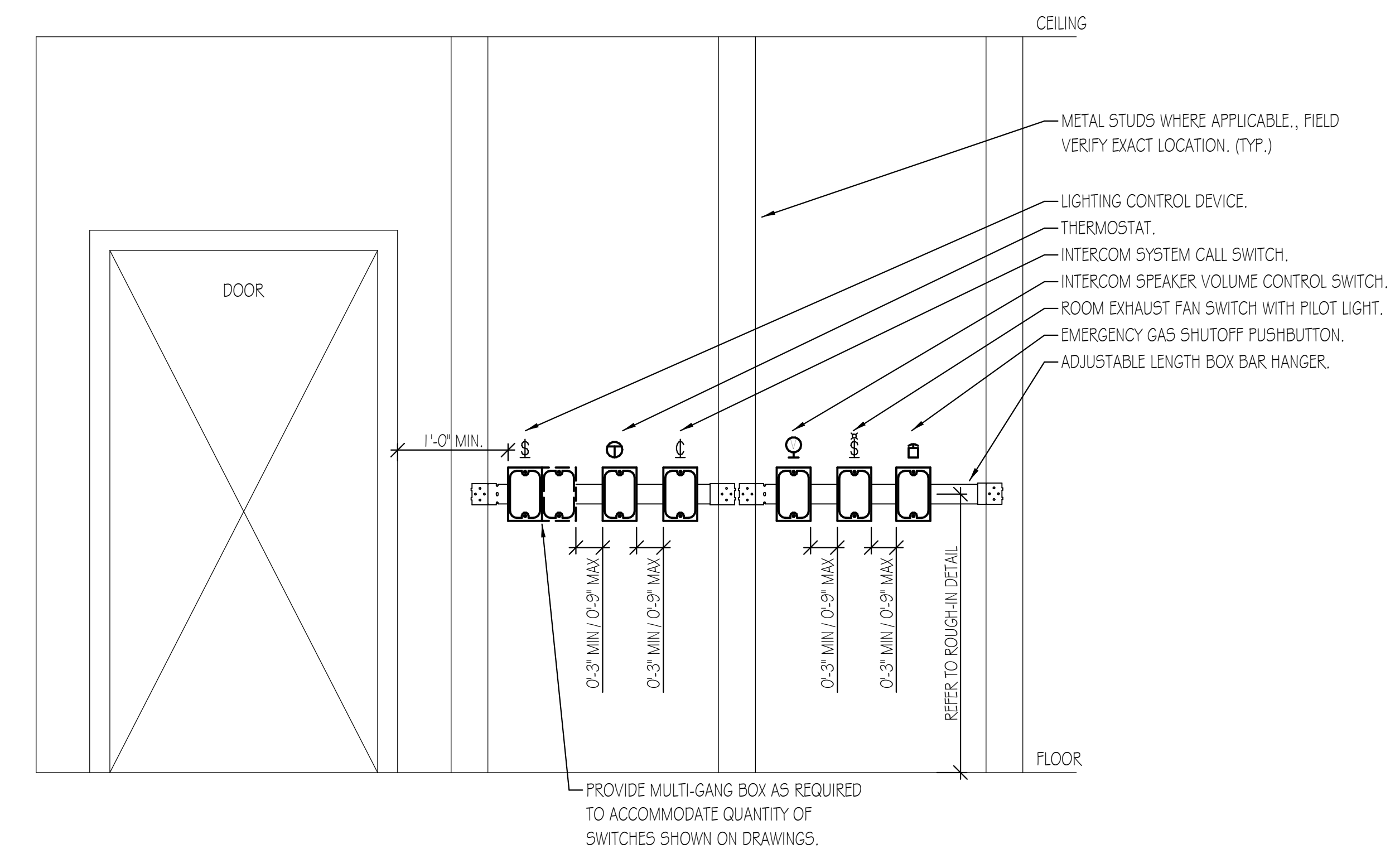


GROUNDING DETAIL
 NO SCALE



LADDER RACK SUPPORT DETAIL
 NO SCALE

NOTES:
 1. CABLE LADDER RACK SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5 FEET.
 2. ROUTE LADDER RACK AS INDICATED ON PLANS. COORDINATE FINAL ROUTING AND ELEVATION WITH EQUIPMENT RACKS AND OWNER'S REPRESENTATIVE.



ROOM CONTROL SPACING DETAIL
 NO SCALE

NOTES:
 1. SYMBOLS ON PLANS ARE SHOWN OFFSET FOR CLARITY. DETAIL IS SHOWN TO INDICATE GROUPING OF CONTROL DEVICES FOR A TYPICAL ROOM. COORDINATE EXACT DEVICE LOCATIONS WITH ARCHITECT/ENGINEER PRIOR TO ROUGH-IN.
 2. NOT ALL DEVICES ARE REQUIRED FOR PROJECT.

KEY PLAN:

SHEET STATUS: 9.19.23
ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:

E7.20

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

NURSE SIMULATION LABS				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
DIGITAL SIGNAL PROCESSOR	X	-	-	-
AV CONTROL SYSTEM	X	-	-	-
AV AMPLIFIER	X	-	-	-
CEILING SPEAKERS	-	-	X	-
CEILING MICROPHONES	X	-	-	-

STUDY ROOMS / STUDENT LOUNGE / CONFERENCE ROOMS				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
DISPLAY MONITORS	X	-	-	-
WEBCAM AND MICROPHONE	X	-	-	-

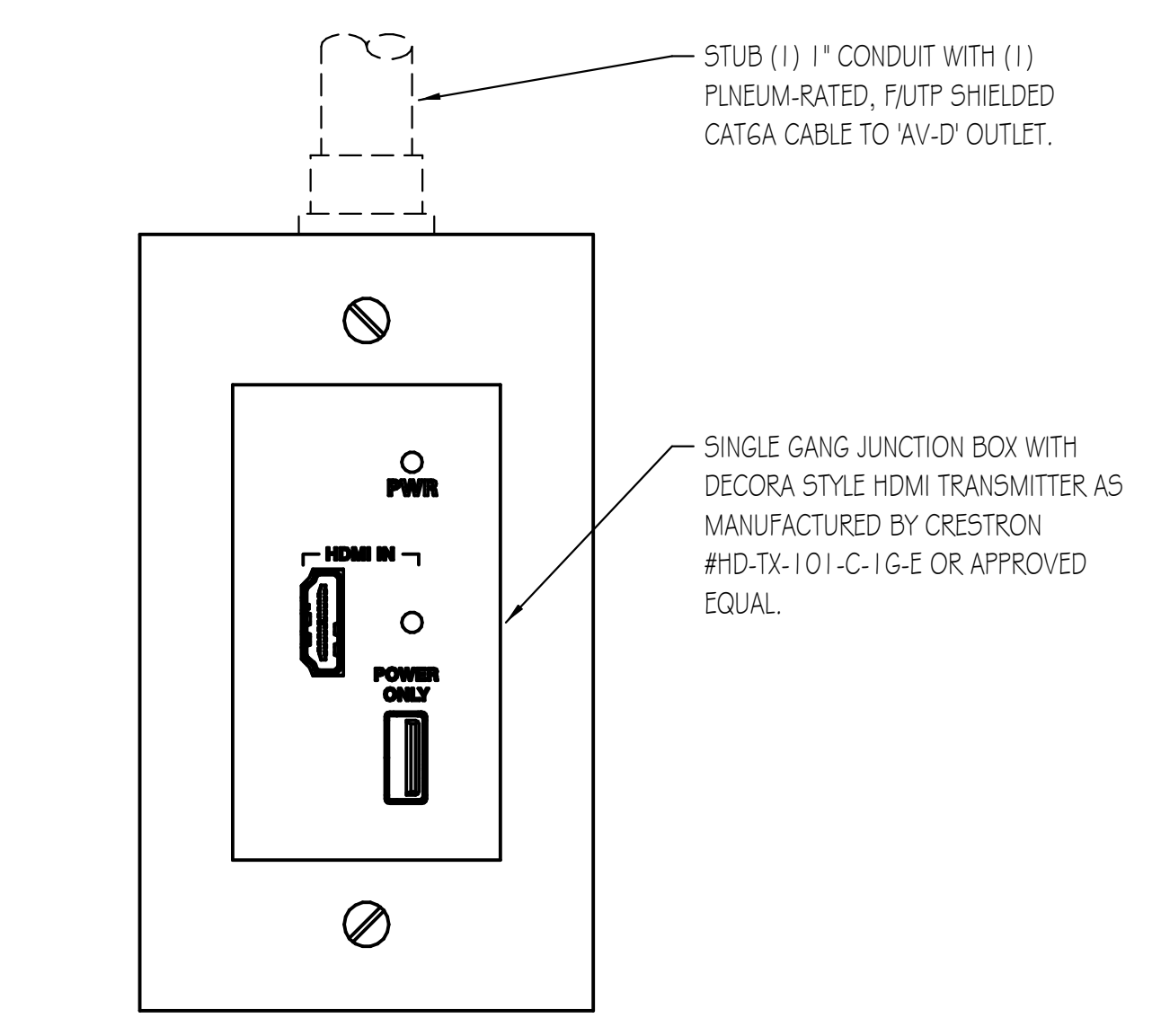
IT EQUIPMENT				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
IT RACK	-	-	X	-
UPS	-	-	X	-
CAT6 PATCH PANELS	-	-	X	-
FIBER PATCH PANELS	X	-	-	-
NETWORK SWITCHES	X	-	-	-
WIRELESS ACCESS POINT	X	-	-	-

ACCESS CONTROL / SECURITY EQUIPMENT				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
CAMERAS	X	-	-	-
CARD READERS	X	-	-	-
HEAD-END EQUIPMENT	X	-	-	-

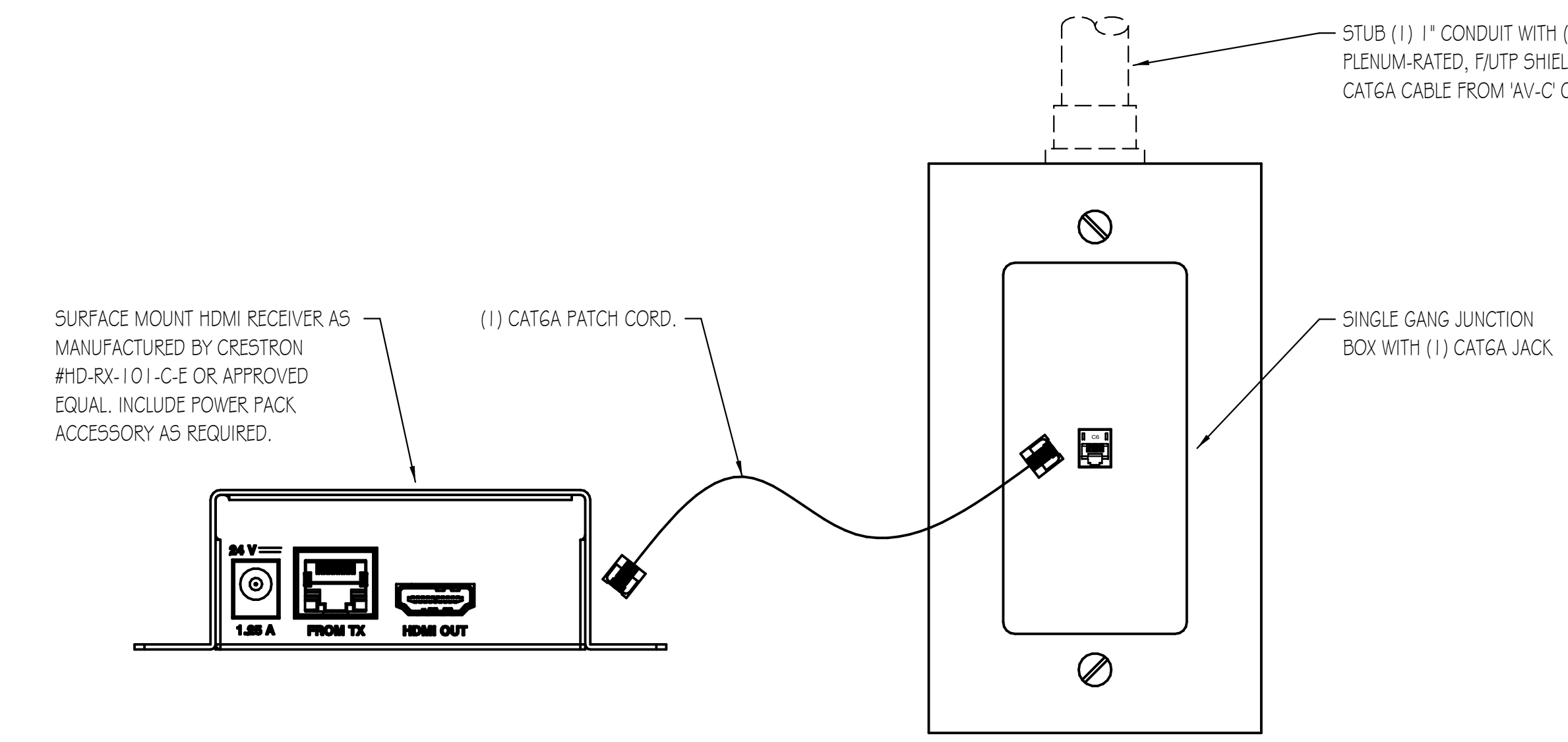
STANDARD CLASSROOM A/V EQUIPMENT				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
DESKTOP AIO COMPUTER	X	-	-	-
DOCUMENT CAMERA	X	-	-	-
AV SWITCHER (KRAMER G11DT)	X	-	-	-
CEILING SPEAKERS	-	-	X	-
PROJECTOR (EPSON 530)	-	X	-	-
PROJECTOR SCREEN (DALITE MODEL B)	-	-	X	-
AV AMPLIFIER (CABLE52GO #40881)	X	-	-	-

ROUND CLASSROOM 102				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
DESKTOP AIO COMPUTER	X	-	-	-
DOCUMENT CAMERA	X	-	-	-
AV SWITCHER (KRAMER G11DT)	X	-	-	-
CEILING SPEAKERS	-	-	X	-
75" DISPLAY MONITORS	X	-	-	-
CEILING CAMERA	X	-	-	-

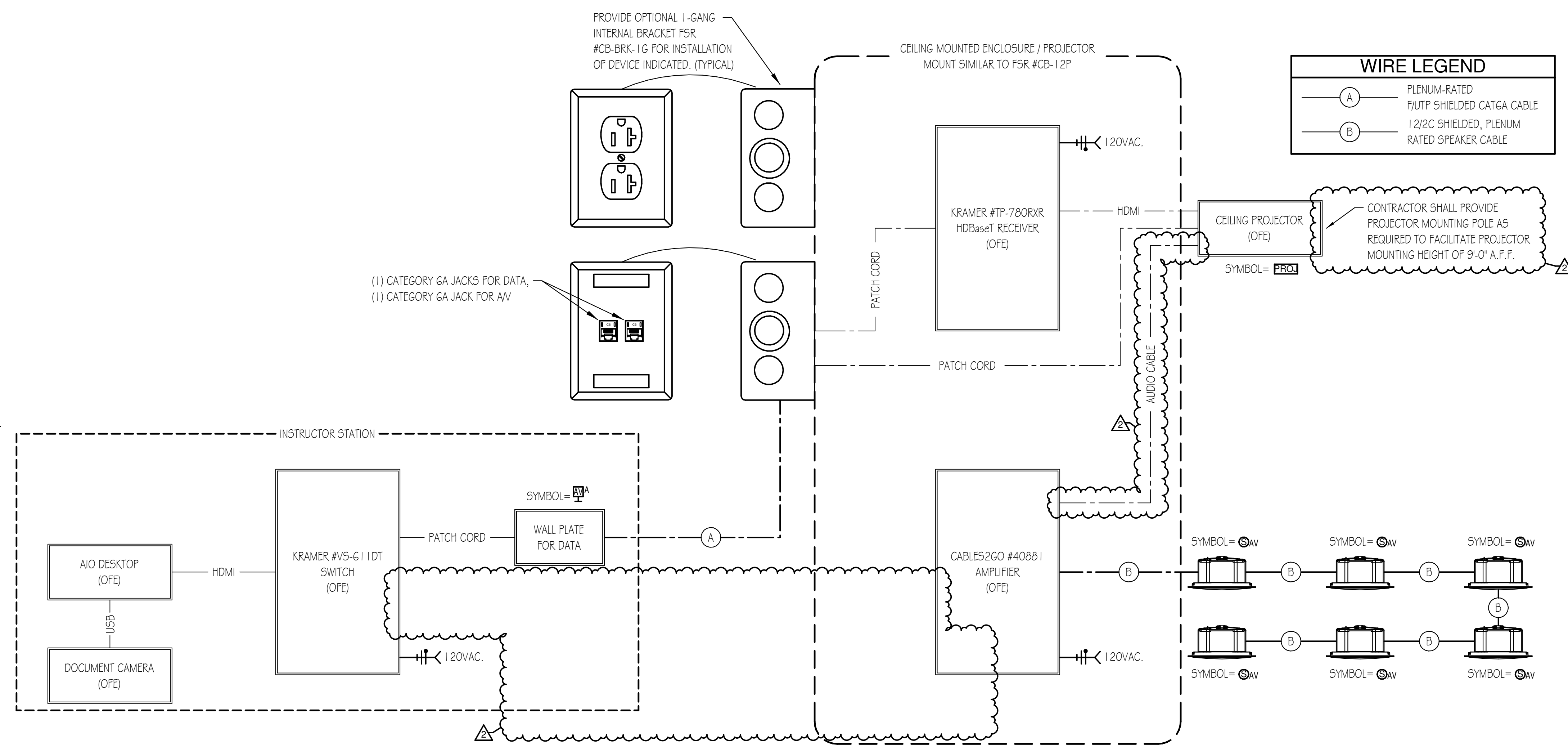
CONFERENCE ROOMS 105A & 150B				
ITEM	OWNER FURNISH, OWNER INSTALL	OWNER FURNISH, CONTRACTOR INSTALL	CONTRACTOR FURNISH, CONTRACTOR INSTALL	NOTES
DIGITAL SIGNAL PROCESSOR	X	-	-	-
AV CONTROL SYSTEM	X	-	-	-
AV INPUT DEVICE	X	-	-	-
AV TOUCH SCREEN CONTROL	X	-	-	-
CEILING SPEAKERS	-	-	X	-
CEILING MICROPHONES	X	-	-	-
PROJECTOR (EPSON 530)	-	X	-	-
PROJECTOR SCREEN (DALITE MODEL B)	-	-	X	-



AV TRANSMITTER OUTLET DETAIL
 NO SCALE
 PLAN SYMBOL =



AV RECEIVER OUTLET DETAIL
 NO SCALE
 PLAN SYMBOL =



CLASSROOMS A/V SCHEMATIC DIAGRAM
 NO SCALE

- NOTES:
- ALL LOW VOLTAGE CABLES SHALL BE PLENUM-RATED.
 - OFE DENOTES OWNER FURNISHED EQUIPMENT.



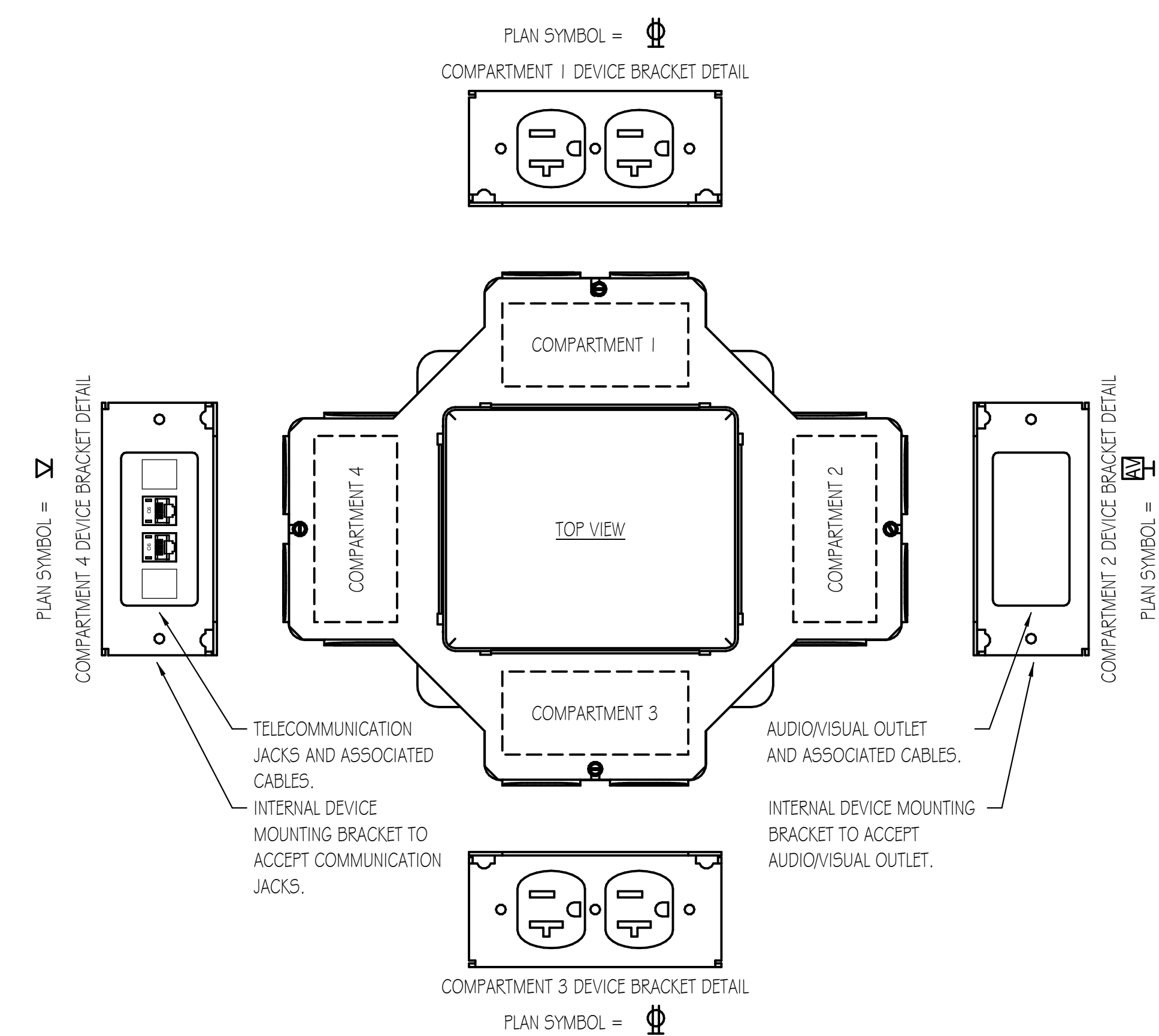
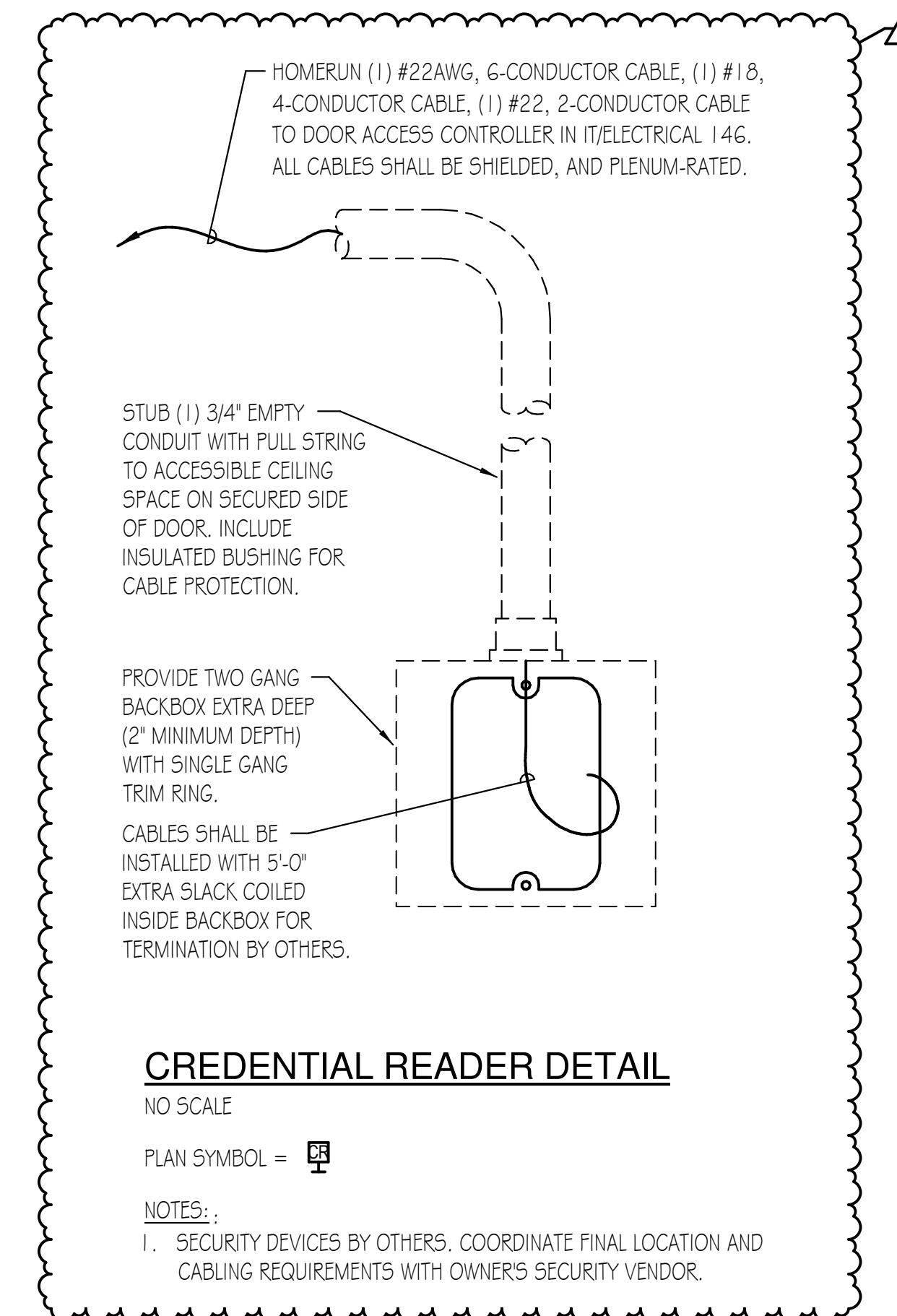
ARCHITECT OF RECORD
DEMONICA KEMPER ARCHITECTS
 125 N. HALSTED STREET, SUITE 301
 CHICAGO, IL 60661
 P: 312.496.0000

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 1391 CORPORATE DRIVE, SUITE
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**MCHENRY COUNTY COLLEGE
 UNIVERSITY CENTER AT MCC**

222 E CHURCH ST
 WOODSTOCK, ILLINOIS 60098
 DKA PROJECT NO: 22-050



KEY PLAN:

SHEET STATUS: 9.19.23
ISSUED FOR BIDS

NO.	DESCRIPTION:	DATE:
2	Addendum #3	10/6/23

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E7.40