

Addendum #1

July 2, 2019

BID NUMBER: 2020-B0001

CLEVE CARNEY GALLERY EXPANSION



The following items are modified to the Original Bid Documents per the below:

Book 1, Contract Manual:

Part 2, Instruction to Bidders

2.10 is modified to address the following bid question:

Question:

Please clarify that which bid bond form needs to be requested to the surety company? Will it be Federal form 24 or AIA 310 or any specific form from the college of DuPage?

Answer:

Bidders may use AIA 310-2010, Bid Bond.

Part 3, Bid Form

Modified to include Alternate #4. Please use attached Bid Form.

Part 4, Scope of Work:

Contract Category # 9 – Electrical:

The exterior video boards and support mounting frame are removed from this scope of work. The rough-in, power and low voltage cabling should be quoted as Alternate #4.

~~12) Provide the Audio Visual System as specified in Section 115200. This includes the complete support mounting frame as shown on Detail 5/A5.01. It also includes coordination with Owner for programming and head end requirements. Removed in Addendum #1~~

~~17) Provide (5) CAT6 cables from the exterior screens to the controller in the existing storage room (keynote 12/E2.01). Addendum #1 makes this Alternate #4~~

Alternates:

- 2) Provide (3) ceiling pendant mount cameras per Specification Section 012300.
- 3) Provide (3) ceiling mount laser detectors per Specification Section 012300.
- 4) Provide rough-in, power and low voltage wiring for exterior screens.

Part 3
Bid Form

**College of DuPage
College of DuPage – Cleve Carney Gallery Expansion
425 Fawell Blvd, Glen Ellyn, IL
Project #2020-B0001**

Contract Category # _____

Contract Category Description: _____

Date: _____

Company Name: _____

Address: _____

(Hereafter called the "BIDDER")

Addressed and Delivered to: **College of DuPage Purchasing Department
Berg Instructional Center (BIC), Room 1B03
425 Fawell Blvd
Glen Ellyn, IL 60137
Attn: Jacoby Radford**

BID TOTAL

The undersigned agrees to perform all work identified in the Construction Documents and Contract Manual for the total price(s) listed below. Reference Contract Manual Part 4 "Scope of Work" for the defined work to be included in each of the base bids identified below. Amount shall be shown in both words and figures. In case of discrepancy, the amount shown in words shall govern.

The costs to provide the Performance and Payment Bond premiums shall be included in the Bid Total.

Cleve Carney Gallery Expansion

_____ Dollars (\$ _____)

BID ALTERNATE PRICING BREAKDOWN – Per Specification Section 012300

Alternate Number	Contract Categories that MUST price this alternate. (other Contract Categories shall price these alternates where applicable)	Scope by Trade (other trades are to include alternate value pricing if required for a complete system)	Additive / (Deductive) Cost Impact
	General Description		
1	3.0 Masonry 4.0 Roofing 6.0 EIFS & DEFS	EIFS in lieu of Metal Panels	
2	9.0 ELECTRICAL	Provide (3) Ceiling Pendant Mount Cameras	
3	9.0 ELECTRICAL	Provide (3) Ceiling Mount Laser Detectors	
4	9.0 ELECTRICAL	Provide power, low voltage and rough-in for the exterior video boards	

DOCUMENTS RECOGNIZED FOR THIS BID

Documents as listed on the Contract Documents List in Part 10 _____

Contract Manual Dated June 20, 2019 _____

ADDENDUM'S RECOGNIZED FOR THIS BID

BIDDER has received the following Addenda receipt of which is hereby acknowledged, and further represents that any additions or modifications to or deletions from the Work called for in these Addenda are included in the Proposal Price.

Addendum No. 1 dated 7/2/19 _____

Addendum No. 2 _____

REQUIRED ITEM CHECKLIST

All bidders are required to review the following items as a part of the bid process. Bids that do not comply with this requirement will be considered non-responsive.

Part 3 – Bid Form

Addendum #1

BIDDER has attached bonding company letter regarding bonding capacity of the bidder for single projects and aggregates as well as current balance as requested in the Instructions to Bidders (in Part 2, Contract Manual):

BIDDER has reviewed Scope of Work (in Part 4, Contract Manual) and confirms that the bid is in full compliance with this Scope of Work:

BIDDER has reviewed sample Subcontract Agreement (in Part 5, Contract Manual) and confirms that the bid is in full compliance with this Contract Agreement:

BIDDER has reviewed Bond Forms (in Part 6, Contract Manual) and confirms that this bid is in full compliance with these requirements:

BIDDER has attached a proper Bid Bond as defined in the Instructions to Bidders (in Part 2, Contract Manual):

BIDDER has attached the labor rate sheet (in Part 3, Contract Manual). Subcontractor must attach proposed labor rate sheets to their bid using attached form. A separate sheet should be attached for each craft as well as for each level (i.e. journeyman, foreman, general foreman). Submission does not constitute acceptance. Final acceptance will be determined by College of DuPage auditor after bids are reviewed:

BIDDER has attached a Utilization Plan & Letter of Intent (Part 2, Contract Manual):

BIDDER has attached a Certifications page (Part 2, Contract Manual):

BIDDER has attached a Signature Page (Part 2, Contract Manual):

BIDDER has attached a Conflict of Interest Disclosure and Non-Collusion Form (in Part 2, Contract Manual):

Company Name_____

Authorized Signature_____

Name_____

Title_____

Phone Number_____

Person to be contacted with questions pertaining to this proposal _____

Contact telephone number _____



DATE: July 2, 2019

FROM: Wight & Company
2500 N. Frontage Road
Darien, IL 60561

SUBJECT: ADDENDUM 1
Cleve Carney Gallery Expansion
College of DuPage – McAninch Arts Center

Wight & Company

wightco.com

.....
2500 North Frontage Road

Darien, IL 60561

.....

P 630.969.7000

F 630.969.7979

I. Clarifications

1. Not Used

II. Specifications

Note: All replaced sections include strikeout text for that which has been deleted and bold and italicized text for that which has been added.

1. Specification Section 012300 – Alternates: Replace in its entirety with the attached revised section.
 - a. Added an alternate for power and data for the LED screens.
2. Specification Section 074219 – Metal Plate Wall Panels: Replace in its entirety with the attached revised section.
 - a. Eliminated requirements related to rainscreens, weathertightness, flashing, and sealing.
 - b. Added submittal requirements for assembly samples.
 - c. Eliminated the requirement for mockups.
 - d. Added Clover Architectural Products to the list of manufacturers.
 - e. Clarified that solid colors will be used.
 - f. Added requirements for the metal panel framing system finish.
 - g. Clarified metal panel installation requirements.
3. Specification Section 081113 – Hollow Metal Doors and Frames: Replace in its entirety with the attached revised section.
 - a. Added requirements related to fire rated doors and frames.
4. Specification Section 096400 – Wood Flooring: Replace in its entirety with the attached revised section.
 - a. Eliminated requirements related to the radiant flooring underlayment system.
 - b. Revised the plywood underlayment fastening method to be glued down in lieu of mechanically fastened.
 - c. Added requirements related to the plywood underlayment.

III. Drawings

ARCHITECTURAL

1. Sheet AD2.01A: Replace in its entirety with the attached revised drawing sheet.
 - a. Added requirements related to new door hardware at existing concrete floor slabs.
 - b. Revised the area of ceiling demolition.
 - c. Additional notation clarification / correction.
2. Sheet A2.01: Replace in its entirety with the attached revised drawing sheet.
 - a. Added a description of the new wood floor construction assembly.
 - b. Added requirements related to new door hardware at existing concrete floor slabs.
 - c. Added requirements related to floor patching at the new glass entrance.
 - d. Added wall partition types for the two interior display walls in the gallery.
 - e. Added elevation marks for the handrails in the stairs.
 - f. Additional notation clarification / correction.
3. Sheet A4.00: Replace in its entirety with the attached revised drawing sheet.
 - a. Clarified and provided a range for the acceptable overall LED screen size.
 - b. Eliminated redundant detail tags on the building section.
 - c. Clarified dimensions for the opening in one interior display wall.
 - d. Clarified blocking requirements at handrails.
 - e. Added control joint locations.
 - f. Additional notation clarification / correction.
4. Sheet A5.00: Replace in its entirety with the attached revised drawing sheet.
 - a. Clarified concrete slab, insulation, and vapor retarder assembly.
 - b. Added rigid insulation at the slab edge of the radiant floor.
 - c. Additional notation clarification / correction.
5. Sheet A5.01: Replace in its entirety with the attached revised drawing sheet.
 - a. Clarified / revised details related to the LED screen / cabinet.
 - b. Added details for the typical metal panel framing and typical metal panel mounting.
 - c. Additional notation clarification / correction.
6. Sheet A8.00: Replace in its entirety with the attached revised drawing sheet.
 - a. Clarified / revised details related to the LED screen / cabinet.
 - b. Added spray insulation control joint locations.
 - c. Added a wall partition type for the interior display walls.
 - d. Additional notation clarification / correction.
7. Sheet M6.01: Replace in its entirety with the attached revised drawing sheet.
 - a. Revised the hot water radiant floor pipe installation detail.

8. Sheet E2.01: Replace in its entirety with the attached revised drawing sheet.
 - a. Noted the power and data for the LED screens as an alternate.
 - b. Added a junction box for security system power.
9. Sheet E5.01: Replace in its entirety with the attached revised drawing sheet.
 - a. Added the security panel circuit to Panelboard ELB2.

This revision consists of: (3) Pages, (4) Specification Sections, and (9) Drawing Sheets.

END OF ADDENDUM 1

SECTION 012300 – ALTERNATES

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 administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. Alternates described in this Section are part of the Work only if enumerated in the Agreement.
 - 2. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work as necessary to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
 - 2. Include as part of each alternate, costs of related coordination, modification, or adjustment incidental to or required for a complete installation whether or not mentioned as part of the Alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.

- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A schedule of alternates is included at the end of this Section. Specification Sections referenced in schedule contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Alternate No. 1: EIFS in lieu of metal panels.
 - 1. In lieu of Base Bid metal panels at the building exterior, provide smooth finish EIFS per alternate wall section 1/A5.01. The EIFS shall also replace the direct applied finish system installed behind metal wall panels. Extend the height of the masonry parapet at EIFS locations as indicated, to allow the EIFS to match the top of metal panel elevations. The projected depth of EIFS shall be as required to match the projected depth of the metal panels, including the offset frame dimension and the articulated façade condition identified in elevations 17/A4.00 and 18/A4.00.
- B. Alternate No. 2: Ceiling pendant mount cameras.
 - 1. Provide (3) ceiling pendant mount cameras as indicated on the security plan (1/TY02.01; centered in the ceiling across the width of the room) and detailed on 1/TY05.02.
- C. Alternate No. 3: Ceiling mount laser detectors.
 - 1. Provide (3) ceiling mount laser detectors as indicated on the security plan (1/TY02.01) and detailed on 2/TY05.03.
- D. Alternate No. 4: Power and data for the LED screens.
 - 1. Provide power and data for the LED screens and associated head end equipment as indicated on electrical drawing E2.01.

END OF SECTION 012300

SECTION 074219 – METAL-PLATE WALL PANELS

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 metal-plate wall panels.
- B. Alternates: Refer to Division 01 Section "Alternates" for description of Work in this Section affected by alternates.

1.3 DEFINITION

- A. Metal-Plate Wall Panel Assembly: Metal-plate wall panels, attachment system components, miscellaneous metal framing, and accessories necessary for a complete ~~weather~~ tight system.

1.4 COORDINATION

- A. Coordinate metal-plate wall panel assemblies with rain drainage work, flashing, trim, and construction of ~~studs, soffits, and other~~ adjoining work to provide a ~~leakproof,~~ secure, and noncorrosive installation.

1.5 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.
 - 1. Meet with Owner, Architect, Owner's insurer if applicable, metal panel Installer, metal panel manufacturer's representative, structural-support Installer, and installers whose work interfaces with or affects metal panels, including installers of doors, windows, and louvers.
 - 2. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
 - 3. Review methods and procedures related to metal panel installation, including manufacturer's written instructions.
 - 4. Examine support conditions for compliance with requirements, including alignment between and attachment to structural members.

5. Review flashings, special siding details, wall penetrations, openings, and condition of other construction that affect metal panels.
6. Review governing regulations and requirements for insurance, certificates, and tests and inspections if applicable.
7. Review temporary protection requirements for metal panel assembly during and after installation.
8. Review procedures for repair of metal panels damaged after installation.
9. Document proceedings, including corrective measures and actions required, and furnish copy of record to each participant.

1.6 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes for each type of metal plate wall panel and accessory.
- B. Shop Drawings:
 1. Include fabrication and installation layouts of metal plate wall panels; details of edge conditions, joints, panel profiles, corners, anchorages, attachment system, trim, flashings, closures, and accessories; and special details.
 2. Accessories: Include details of the flashing, trim, and anchorage, at a scale of not less than 1-1/2 inches per 12 inches.
- C. Samples for Initial Selection: For each type of metal panel indicated with factory-applied color finishes.
 1. Include similar Samples of trim and accessories involving color selection.
- D. Samples for Verification: ~~For each type of exposed finish required, prepared on Samples of size indicated below.~~
 1. Metal Panels: ~~12 inches long by actual panel width. Include fasteners, closures, and other metal plate wall panel accessories.~~ **Typical Framing Detail – End of Panel Run: 12 inches long by 12 inches wide by depth of metal panel system (including framing and anchoring components). Sample shall include the typical panel edge condition for a single panel mounted to an angle. Sample shall represent a fully assembled condition with mounting tabs, bolts, and all other necessary mounting components (including those for anchoring to the wall).**
 2. **Metal Panels: Typical Framing Detail – Joint Between Panels: 12 inches long by 12 inches wide by depth of metal panel system (including framing and anchoring components). Sample shall include the typical panel edge condition for two separate panels mounted to a single bent plate z-girt. Sample shall represent a fully assembled condition with mounting tabs, bolts, and all other necessary mounting components (including those for anchoring to the wall).**

- E. Delegated-Design Submittal: For metal-plate wall panel systems, including the panels themselves and the associated support system/frame, and including analysis data signed and sealed by the qualified Illinois-licensed engineer responsible for their preparation.

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and Illinois-licensed structural engineer.
- B. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each product.
- C. Field quality-control reports.
- D. Sample Warranties: For special warranties.

1.8 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For metal-plate wall panels to include in maintenance manuals.

1.9 QUALITY ASSURANCE

- A. Installer Qualifications: Engage an experienced installer who has completed metal-plate wall panel projects similar in material, design, and extent to that indicated for this Project and with a record of successful in-service performance.
- ~~B. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate aesthetic effects and set quality standards for fabrication and installation.
 - ~~1. Build mockup of typical wall panel as indicated on Drawings, or if not indicated, as directed by Architect; approximately one bay wide by one story high by full thickness, including supports, attachments, and accessories. Include four way joint.~~
 - ~~2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.~~
 - ~~3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.~~~~

1.10 DELIVERY, STORAGE, AND HANDLING

- A. Deliver components, metal plate wall panels, and other manufactured items so as not to be damaged or deformed. Package panels for protection during transportation and handling.
- B. Unload, store, and erect metal-plate wall panels in a manner to prevent bending, warping, twisting, and surface damage.

- C. Stack metal-plate wall panels horizontally on platforms or pallets, covered with suitable weathertight and ventilated covering. Store metal-plate wall panels to ensure dryness, with positive slope for drainage of water. Do not store metal-plate wall panels in contact with other materials that might cause staining, denting, or other surface damage.
- D. Retain strippable protective covering on metal plate wall panel for period of installation.

1.11 FIELD CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit assembly of metal-plate wall panels to be performed according to manufacturers' written instructions and warranty requirements.
- B. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before metal plate wall panel fabrication and indicate measurements on Shop Drawings.

1.12 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal plate wall panel assemblies that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures, including rupturing, cracking, or puncturing.
 - b. Deterioration of metals and other materials beyond normal weathering.
 - 2. Warranty Period: Two years from date of Substantial Completion.
- B. Special Warranty on Panel Finishes: Manufacturer's standard form in which manufacturer agrees to repair finish or replace metal-plate wall panels that show evidence of deterioration of factory-applied finishes within specified warranty period.
 - 1. Fluoropolymer Finish: Deterioration includes, but is not limited to, the following:
 - a. Color fading more than 5 Hunter units when tested according to ASTM D 2244.
 - b. Chalking in excess of a No. 8 rating when tested according to ASTM D 4214.
 - c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
 - 2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS, GENERAL

- A. Source Limitations: Obtain each type of metal-plate wall panel through one source from a single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Design metal-plate wall panel systems, including the panels themselves and the associated support system/frame, and including comprehensive engineering analysis by a qualified Illinois-licensed structural engineer, using performance requirements and design criteria indicated.
- B. Structural Performance: Provide metal panel systems capable of withstanding the effects of the following loads, based on testing according to ASTM E 330:
 - 1. Wind Loads: As indicated on Drawings.
 - 2. Deflection Limits: For wind loads, no greater than 1/180 of the span.
- C. Thermal Movements: Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on surface temperatures of materials due to both solar heat gain and nighttime-sky heat loss.
 - 1. Temperature Change (Range): 120 deg F, ambient; 180 deg F, material surfaces.

2.3 METAL-PLATE WALL PANELS

- A. Metal Plate Wall Panels: Provide factory-formed, metal plate wall panels fabricated from single sheets of metal formed into profile for installation method indicated. Include attachment system components, panel stiffeners, and accessories required for weathertight-system.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Alply Insulated Panels LLC.
 - b. Architectural Specialty Products, Inc.
 - c. Fabral.
 - d. Firestone Metal Products, LLC.
 - e. Industrial Building Panels, Inc.
 - f. Metal Sales & Service, Inc.
 - g. Protean Construction Products, Inc.
 - h. SAF (Southern Aluminum Finishing Company, Inc.).
 - i. Clover Architectural Products**

- B. Panel Depth: As indicated on Drawings.
- C. Aluminum Sheet: Tension-levleled, smooth aluminum sheet, ASTM B 209, 0.125 inch thick.
 - 1. Exterior Finish: Two-coat fluoropolymer.
 - a. Color: Two separate colors as selected by Architect from manufacturer's full range **of solid colors**.
- D. ~~Attachment Assembly: Rainscreen-principle system.~~

2.4 MISCELLANEOUS MATERIALS

- A. Miscellaneous Metal Subframing and Furring: ASTM C 645, cold-formed, metallic-coated steel sheet, ASTM A 653, G90 coating designation. Provide manufacturer's standard sections as required for support and alignment of metal panel system.
- B. ~~Panel Accessories: Provide components required for a complete metal plate wall panel assembly including trim, copings, fasciae, mullions, sills, corner units, clips, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of panels unless otherwise indicated.~~
- C. ~~Flashing and Trim: Provide flashing and trim formed from same material as metal panels, not less than 0.030-inch thick, as required to seal against weather and to provide finished appearance. Locations include, but are not limited to, bases, drips, sills, jambs, corners, endwalls, framed openings, rakes, fasciae, parapet caps, soffits, reveals, and fillers. Finish flashing and trim with same finish system as adjacent metal panels. **Not used.**~~
- D. Panel Fasteners: Self-tapping screws; bolts and nuts; self-locking rivets and bolts; end-welded studs; and other suitable fasteners designed to withstand design loads. ~~Provide exposed fasteners with heads matching color of metal wall panels by means of plastic caps or factory-applied coating. **There shall be no exposed fasteners on the visible face of the metal panels.**~~ Provide EPDM, PVC, or neoprene sealing washers.

2.5 FABRICATION

- A. General: Fabricate and finish metal-plate wall panels and accessories at the factory to greatest extent possible, by manufacturer's standard procedures and processes, as necessary to fulfill indicated performance requirements demonstrated by laboratory testing. Comply with indicated profiles and with dimensional and structural requirements.
- B. Fabricate metal panel joints with factory-installed captive gaskets or separator strips that provide a weathertight seal and prevent metal-to-metal contact, and that minimize noise from movements.

- ~~C. Sheet Metal Accessories: Fabricate flashing and trim to comply with recommendations in SMACNA's "Architectural Sheet Metal Manual" that apply to design, dimensions, metal, and other characteristics of item indicated.~~
- ~~1. Form exposed sheet metal accessories that are without excessive oil canning, buckling, and tool marks and that are true to line and levels indicated, with exposed edges folded back to form hems.~~
 - ~~2. Seams for Aluminum: Fabricate nonmoving seams with flat lock seams. Form seams and seal with epoxy seam sealer. Rivet joints for additional strength.~~
 - ~~3. Seams for Other Than Aluminum: Fabricate nonmoving seams in accessories with flat lock seams. Tin edges to be seamed, form seams, and solder.~~
 - ~~4. Sealed Joints: Form nonexpansion but movable joints in metal to accommodate elastomeric sealant to comply with SMACNA standards.~~
 - ~~5. Conceal fasteners and expansion provisions where possible. Exposed fasteners are not allowed on faces of accessories exposed to view.~~
 - ~~6. Fabricate cleats and attachment devices from same material as accessory being anchored or from compatible, noncorrosive metal recommended by metal plate wall panel manufacturer.~~
- ~~a. Size: As recommended by SMACNA's "Architectural Sheet Metal Manual" or metal plate wall panel manufacturer for application, but not less than thickness of metal being secured.~~

2.6 FINISHES

- A. Protect mechanical and painted 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 abutting or adjacent pieces are acceptable if they are within one-half of the range of approved Samples. Variations in appearance of other components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.
- C. Aluminum Panels and Accessories
1. Two-Coat Fluoropolymer: AAMA 2605. Fluoropolymer finish containing not less than 70 percent PVDF resin by weight in color coat. Prepare, pretreat, and apply coating to exposed metal surfaces to comply with coating and resin manufacturers' written instructions.
 2. Concealed Finish: ~~Apply pretreatment and manufacturer's standard white or light-colored acrylic or polyester backer finish, consisting of prime coat and wash coat with a minimum total dry film thickness of 0.5 mil.~~ **Mill finish aluminum.**
 3. **Framing System Finish:**
 - a) **Aluminum: Mill finish**
 - b) **Steel: Uni_bond DF Series 115 by Tnemec or equal. Install per manufacturer's written instructions and provide two coats with a min. dry film thickness of 3.0 mils per coat (6.0 mils total).**

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, metal-plate wall panel supports, and other conditions affecting performance of work.
 - 1. Examine wall framing to verify that girts, angles, channels, studs, and other structural panel support members and anchorage have been installed within alignment tolerances required by metal-plate wall panel manufacturer.
- B. Examine roughing-in for components and systems penetrating metal plate wall panels to verify actual locations of penetrations relative to seam locations of panels before installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Miscellaneous Supports: Install subframing, furring, and other miscellaneous panel support members and anchorages according to ASTM C 754 and metal panel manufacturer's written recommendations.

3.3 METAL PLATE WALL PANEL INSTALLATION

- A. General: Install metal-plate wall panels in orientation, sizes, and locations indicated on Drawings. Install panels perpendicular to girts and subgirts, unless otherwise indicated. Anchor metal-plate wall panels and other components of the Work securely in place, with provisions for thermal and structural movement.
 - 1. Commence metal plate wall panel installation and install minimum of 300 sq. ft. in presence of factory-authorized representative.
 - 2. Shim or otherwise plumb substrates receiving metal panels.
 - 3. Flash and seal metal panels at perimeter of all openings. Fasten with self-tapping screws. Do not begin installation until air- or water-resistive barriers and flashings that will be concealed by metal panels are installed. **Seal all penetrations where the metal panel framing system is anchored to the wall.**
 - 4. Install screw fasteners in predrilled holes.
 - 5. Locate and space fastenings in uniform vertical and horizontal alignment.
 - 6. ~~Install flashing and trim as metal panel work proceeds.~~
 - 7. ~~Locate panel splices over, but not attached to, structural supports. Stagger panel splices and end laps to avoid a four-panel lap splice condition.~~
 - 8. ~~Align bottoms of metal panels and fasten with blind rivets, bolts, or self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.~~ **Align tops of metal panels and secure panels to framing system.**
 - 9. ~~Provide weathertight escutcheons for pipe and conduit penetrating panels.~~

- B. Fasteners:
1. Aluminum Panels: Use aluminum or stainless-steel fasteners for surfaces exposed to the exterior and aluminum or galvanized-steel fasteners for surfaces exposed to the interior.
 2. No exposed fasteners shall be allowed at the face of metal panels.
- C. Metal Protection: Where dissimilar metals will contact each other or corrosive substrates, protect against galvanic action as recommended by metal plate wall panel manufacturer.
- D. Attachment Assembly, General: Install attachment assembly required to support metal plate wall panels and to provide a complete wall system, including subgirts, perimeter extrusions, tracks, drainage channels, panel clips, and anchor channels.
1. Include attachment to supports, panel-to-panel joinery, **and** panel-to-dissimilar-material joinery, ~~and panel system joint seals.~~
- E. Installation: Attach metal plate wall panels to supports at locations, spacings, and with fasteners recommended by manufacturer to achieve performance requirements specified.
1. ~~Rainscreen Systems: Do not apply sealants to joints unless otherwise indicated.~~
Install metal plate wall panels to allow individual panels to be installed and removed without disturbing adjacent panels.
 2. ***Do not apply sealants to joints unless otherwise indicated.***
- F. ~~Rainscreen Principle Installation: Install using manufacturer's standard assembly with vertical channel that provides support and secondary drainage assembly, draining at base of wall. Notch vertical channel to receive support pins. Install vertical channels supported by channel brackets or adjuster angles and at locations, spacings, and with fasteners recommended by manufacturer. Attach metal plate wall panels by inserting horizontal support pins into notches in vertical channels and into flanges of panels. Leave horizontal and vertical joints with open reveal.~~
1. ~~Install metal plate wall panels to allow individual panels to be installed and removed without disturbing adjacent panels.~~
 2. ~~Do not apply sealants to joints unless otherwise indicated.~~
- G. Accessory Installation: Install accessories with positive anchorage to building and weathertight mounting, and provide for thermal expansion. Coordinate installation with flashings and other components.
1. Install components required for a complete metal panel system including trim, copings, corners, seam covers, flashings, sealants, gaskets, fillers, closure strips, and similar items. Provide types indicated by metal panel manufacturer; or, if not indicated, provide types recommended in writing by metal panel manufacturer.
- H. ~~Flashing and Trim: Comply with performance requirements, manufacturer's written installation instructions, and SMACNA's "Architectural Sheet Metal Manual." Provide~~

~~concealed fasteners where possible, and set units true to line and level as indicated. Install work with laps, joints, and seams that are weather resistant.~~

- ~~1. Install exposed flashing and trim that is without excessive oil canning, buckling, and tool marks and that is true to line and levels indicated, with exposed edges folded back to form hems. Install sheet metal flashing and trim to fit substrates and to result in weather resistant performance.~~
- ~~2. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. Space movement joints at a maximum of 10 feet with no joints allowed within 24 inches of corner or intersection. Where lapped or bayonet type expansion provisions cannot be used or would not be sufficiently weather resistant, form expansion joints of intermeshing hooked flanges, not less than 1 inch deep, filled with mastic sealant (concealed within joints).~~

3.4 ERECTION TOLERANCES

- A. Installation Tolerances: Shim and align metal-plate wall panel units within installed tolerance of 1/4 inch in 20 feet, nonaccumulative, on level, plumb, and location lines as indicated and within 1/16-inch offset of adjoining faces and of alignment of matching profiles.

3.5 FIELD QUALITY CONTROL

- A. Manufacturer's Field Service: Engage a factory-authorized service representative to test and inspect completed metal wall panel installation, including accessories.
- B. Remove and replace metal wall panels where tests and inspections indicate that they do not comply with specified requirements.
- C. Additional tests and inspections, at Contractor's expense, are performed to determine compliance of replaced or additional work with specified requirements.
- D. Prepare test and inspection reports.

3.6 CLEANING AND PROTECTION

- A. Remove temporary protective coverings and strippable films, if any, as metal panels are installed, unless otherwise indicated in manufacturer's written installation instructions. On completion of metal panel installation, clean finished surfaces as recommended by metal panel manufacturer. Maintain in a clean condition during construction.
- B. After metal panel installation, clear weep holes and drainage channels of obstructions, dirt, and sealant.

- C. Replace metal panels that have been damaged or have deteriorated beyond successful repair by finish touchup or similar minor repair procedures.

END OF SECTION 074219

SECTION 081113 – HOLLOW METAL DOORS AND FRAMES

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 standard hollow metal doors and frames.
- B. Related Requirements:
 - 1. Division 04 Section "Unit Masonry" for embedding anchors for hollow metal work into masonry construction.
 - 2. Division 08 Section "Door Hardware" for door hardware for hollow metal doors.
 - 3. Division 09 Sections "Painting" for field painting hollow metal doors and frames.

1.3 DEFINITIONS

- A. Minimum Thickness: Minimum thickness of base metal without coatings.
- B. Standard Hollow Metal Work: Hollow metal work fabricated according to ANSI/SDI A250.8.

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include construction details, material descriptions, core descriptions, and finishes.
- B. Shop Drawings: Include the following:
 - 1. Elevations of each door design.
 - 2. Details of doors, including vertical and horizontal edge details and metal thicknesses.
 - 3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
 - 4. Locations of reinforcement and preparations for hardware.
 - 5. Details of each different wall opening condition.
 - 6. Details of anchorages, joints, field splices, and connections.
 - 7. Details of accessories.
 - 8. Details of moldings.
 - 9. Details of conduit and preparations for power, signal, and control systems.

C. Other Action Submittals:

1. Provide a schedule of hollow metal work prepared by or under the supervision of supplier, using same reference numbers for details and openings as those on Drawings. Coordinate with door hardware schedule.

1.5 INFORMATIONAL SUBMITTALS

- A. Product Test Reports: Based on evaluation of comprehensive tests performed by a qualified testing agency, for each type of hollow metal door and frame assembly.
- B. Manufacturer Certificates: From manufacturer, certifying that frames are galvanized as specified before delivery.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver hollow metal work palletized, wrapped, or crated to provide protection during transit and Project-site storage. Do not use nonvented plastic.
 1. Provide additional protection to prevent damage to finish of factory-finished units.
- B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.
- C. Store hollow metal work under cover at Project site. Place in stacks of five units maximum in a vertical position with heads up, spaced by blocking, on minimum 4-inch high wood blocking. Do not store in a manner that traps excess humidity.
 1. Provide minimum 1/4-inch space between each stacked door to permit air circulation.

1.7 FIELD CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings by field measurements before fabrication.

1.8 COORDINATION

- A. Coordinate installation of anchorages for hollow metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Ceco Door; ASSA ABLOY [Series: Medallion Maxim].
 2. Curries Company; ASSA ABLOY [Series: 707T with extruded lock/hinge rail].
 3. Dean Steel Mfg. Co. [Series: SLP].
 4. Kewanee Door; Spargo Group [Series: D400 w/ polystyrene core].
 5. Steelcraft; an Allegion brand [Series: DW or LW w/ polystyrene core].
- B. Source Limitations: Obtain hollow metal work from single source from single manufacturer.

2.2 EXTRA-HEAVY-DUTY HOLLOW METAL DOORS

- A. General: Provide doors of design indicated, not less than thickness indicated; fabricated with smooth surfaces, without visible joints or seams on exposed faces unless otherwise indicated. Comply with ANSI/SDI A250.8.
1. Design: Flush panel.
 2. Core Construction: Manufacturer's standard polystyrene core.
 3. Vertical Edges for Single-Acting Doors: Beveled edge. All vertical seams shall be continuously welded and ground smooth.
 - a. Beveled Edge: 1/8 inch in 2 inches.
 4. Top and Bottom Edges: Closed with flush or inverted 0.042-inch thick, end closures or channels of same material as face sheets.
 5. Tolerances: Comply with SDI 117, "Manufacturing Tolerances for Standard Steel Doors and Frames."
- B. Exterior Doors: Face sheets fabricated from metallic-coated steel sheet. Provide doors complying with requirements indicated below by referencing ANSI/SDI A250.8 for level and model and ANSI/SDI A250.4 for physical performance level:
1. Level 4 and Physical Performance Level A (Maximum Duty), Model 2 (Seamless).
- C. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcing plates from same material as door face sheets.
1. Additional Reinforcing:
 - a. Minimum 16-gauge internal steel reinforcement of both vertical edges. Weld together vertical and horizontal edge reinforcement prior to face skin application.

- b. Minimum 16-gauge internal steel reinforcement of top and bottom edges.
 - c. Minimum or equivalent to 7-gauge steel for hinges.
 - d. Minimum 12-gauge steel for lock front.
 - e. Minimum 20-gauge steel for lock support requirements.
 - f. Minimum 14-gauge steel for other hardware.
 - g. Minimum 16-gauge for other surface mounted hardware reinforcements.
 - h. Minimum 14-gauge for closer and overhead hold open/stop arms.
- D. Fabricate concealed stiffeners and hardware reinforcement from either cold- or hot-rolled steel sheet.

2.3 EXTRA-HEAVY-DUTY HOLLOW METAL FRAMES

- A. General: Comply with ANSI/SDI A250.8 and with details indicated for type and profile.
- B. Exterior Frames: Fabricated from metallic-coated steel sheet.
- 1. Fabricate frames as full profile welded. Frame corners shall have internal alignment tangs to aide in the support and welding of the joint.
 - 2. Frames for Level 4 Steel Doors: 0.067-inch thick steel sheet.
- C. Hardware Reinforcement: Fabricate according to ANSI/SDI A250.6 with reinforcement plates from same material as frames.
- 1. Additional Reinforcing
 - a. Minimum 7-gauge steel for hinges.
 - b. Minimum 12-gauge steel for strike, closers and overhead hold-open/stop arms, and other surface mounted hardware
 - c. Minimum 14-gauge steel strikes and other hardware.

2.4 FRAME ANCHORS

- A. Jamb Anchors:
- 1. Masonry Type: Adjustable strap-and-stirrup or T-shaped anchors to suit frame size, not less than 0.042 inch thick, with corrugated or perforated straps not less than 2 inches wide by 10 inches long; or wire anchors not less than 0.177 inch thick.
 - 2. Stud-Wall Type: Designed to engage stud, welded to back of frames; not less than 0.042 inch thick.
 - 3. Postinstalled Expansion Type for In-Place Concrete or Masonry: Minimum 3/8-inch-diameter bolts with expansion shields or inserts. Provide pipe spacer from frame to wall, with throat reinforcement plate, welded to frame at each anchor location.

- B. Floor Anchors: Formed from same material as frames, not less than 0.042 inch thick, and as follows:
 - 1. Monolithic Concrete Slabs: Clip-type anchors, with two holes to receive fasteners.

2.5 STOPS AND MOLDINGS

- A. Fixed Frame Moldings: Formed integral with hollow metal frames, a minimum of 5/8 inch high unless otherwise indicated.

2.6 ACCESSORIES

- A. Mullions and Transom Bars: Join to adjacent members by welding or rigid mechanical anchors.
- B. Grout Guards: Formed from same material as frames, not less than 0.016 inch thick.
- C. Concealed Flashing: Manufacturer's standard corrosion-resistant, nonstaining, nonbleeding flashing compatible with adjacent materials.
- D. Bituminous Paint: Cold-applied, asphalt-mastic paint complying with SSPC-Paint 12 requirements except containing no asbestos; formulated for 30-mil thickness per coat.

2.7 MATERIALS

- A. Cold-Rolled Steel Sheet: ASTM A 1008, Commercial Steel (CS), Type B; suitable for exposed applications.
- B. Hot-Rolled Steel Sheet: ASTM A 1011, Commercial Steel (CS), Type B; free of scale, pitting, or surface defects; pickled and oiled.
- C. Metallic-Coated Steel Sheet: ASTM A 653, Commercial Steel (CS), Type B; with minimum A40 metallic coating.
- D. Frame Anchors: ASTM A 591, Commercial Steel (CS), 40Z coating designation; mill phosphatized.
 - 1. For anchors built into exterior walls, steel sheet complying with ASTM A 1008 or ASTM A 1011, hot-dip galvanized according to ASTM A 153, Class B.
- E. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A 153.
- F. Grout: ASTM C 476, except with a maximum slump of 4 inches, as measured according to ASTM C 143.

2.8 FABRICATION

- A. Fabricate hollow metal work to be rigid and free of defects, warp, or buckle. Accurately form metal to required sizes and profiles, with minimum radius for thickness of metal. Where practical, fit and assemble units in manufacturer's plant. To ensure proper assembly at Project site, clearly identify work that cannot be permanently factory assembled before shipment.
- B. Tolerances: Fabricate hollow metal work to tolerances indicated in SDI 117.
- C. Hollow Metal Doors:
 - 1. All vertical seams shall be continuously welded and ground smooth.
 - 2. Exterior Doors: Provide weep-hole openings in bottom of exterior doors to permit moisture to escape. Seal joints in top edges of doors against water penetration.
- D. Hollow Metal Frames: Where frames are fabricated in sections due to shipping or handling limitations, provide alignment plates or angles at each joint, fabricated of same thickness metal as frames.
 - 1. Welded Frames: Weld flush face joints continuously; grind, fill, dress, and make smooth, flush, and invisible.
 - 2. Sidelight and Transom Bar Frames: Provide closed tubular members with no visible face seams or joints, fabricated from same material as door frame. Fasten members at crossings and to jambs by butt welding.
 - 3. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated.
 - 4. Grout Guards: Weld guards to frame at back of hardware mortises in frames to be grouted.
 - 5. Floor Anchors: Weld anchors to bottom of jambs and mullions with at least four spot welds per anchor.
 - 6. Jamb Anchors: Provide number and spacing of anchors as follows:
 - a. Masonry Type: Locate anchors not more than 18 inches from top and bottom of frame. Space anchors not more than 32 inches o.c. and as follows:
 - 1) Three anchors per jamb from 60 to 90 inches high.
 - 7. Door Silencers: Except on weather-stripped doors, drill stops to receive door silencers as follows. Keep holes clear during construction.
 - a. Single-Door Frames: Drill stop in strike jamb to receive three door silencers.
- E. Fabricate concealed stiffeners, edge channels, and hardware reinforcement from either cold- or hot-rolled steel sheet.

- F. Hardware Preparation: Factory prepare hollow metal work to receive templated mortised hardware; include cutouts, reinforcement, mortising, drilling, and tapping according to the Door Hardware Schedule and templates furnished as specified in Division 8 Section "Door Hardware."
 - 1. Locate hardware as indicated, or if not indicated, according to ANSI/SDI A250.8.
 - 2. Reinforce doors and frames to receive nontemplated, mortised and surface-mounted door hardware.
 - 3. Comply with applicable requirements in ANSI/SDI A250.6 and ANSI/DHI A115 Series specifications for preparation of hollow metal work for hardware.

- G. ***Performance Requirements for Fire-Rated Door Assemblies: Assemblies complying with NFPA 80 that are listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction for fire-protection ratings indicated on Drawings, based on testing at positive pressure according to NFPA 252 or UL 10C.***

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Examine roughing-in for embedded and built-in anchors to verify actual locations before frame installation.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Remove welded-in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces.
- B. Prior to installation, adjust and securely brace welded hollow metal frames for squareness, alignment, twist, and plumbness to the following tolerances:
 - 1. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
 - 2. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
 - 3. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
 - 4. Plumbness: Plus or minus 1/16 inch, measured at jambs on a perpendicular line from head to floor.

- C. Drill and tap doors and frames to receive nontemplated, mortised, and surface-mounted door hardware.

3.3 INSTALLATION

- A. General: Install hollow metal work plumb, rigid, properly aligned, and securely fastened in place; comply with Drawings and manufacturer's written instructions.
- B. Hollow Metal Frames: Install hollow metal frames of size and profile indicated. Comply with ANSI/SDI A250.11.

1. Apply an aerosol bituminous type coating to the insides of frames as follows:
 - a. Entire interior of frames that will come in contact with grout or dissimilar material.
 - b. Bottom and continuing up 12 inches for frames that will contact concrete.
2. Set frames accurately in position, plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces, leaving surfaces smooth and undamaged.
 - a. Where frames are fabricated in sections because of shipping or handling limitations, field splice at approved locations by welding face joint continuously; grind, fill, dress, and make splice smooth, flush, and invisible on exposed faces.
 - b. Install door silencers in frames before grouting.
 - c. Remove temporary braces necessary for installation only after frames have been properly set and secured.
 - d. Check plumbness, squareness, and twist of frames as walls are constructed. Shim as necessary to comply with installation tolerances.
 - e. Grouted Frames: Provide galvanized frames where grouted frames are indicated. Field apply aerosol-bituminous-type coating to insides of frames that are filled with grout or dissimilar metals.
3. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor, and secure with postinstalled expansion anchors.
4. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with grout.
5. Installation Tolerances: Adjust hollow metal door frames for squareness, alignment, twist, and plumb to the following tolerances:
 - a. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
 - b. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
 - c. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
 - d. Plumbness: Plus or minus 1/16 inch, measured at jambs at floor.

6. Fire-Rated Openings: Install frames according to NFPA 80.

- C. Hollow Metal Doors: Fit hollow metal doors accurately in frames, within clearances specified below. Shim as necessary.
 - 1. Non-Fire-Rated Standard Steel Doors:
 - a. Jambs and Head: 1/8 inch plus or minus 1/16 inch.
 - b. Between Edges of Pairs of Doors: 1/8 inch plus or minus 1/16 inch.
 - c. Between Bottom of Door and Top of Threshold: Maximum 3/8 inch.
 - d. Between Bottom of Door and Top of Finish Floor (No Threshold): Maximum 3/4 inch.
 - 2. **Fire-Rated Doors: Install doors with clearances according to NFPA 80.**

3.4 ADJUSTING AND CLEANING

- A. Final Adjustments: Check and readjust operating hardware items immediately before final inspection. Leave work in complete and proper operating condition. Remove and replace defective work, including hollow metal work that is warped, bowed, or otherwise unacceptable.
 - 1. In the case of misalignment of hardware latchbolt or deadbolt to the strike plate, filing of the strike plate as a means of adjustment for any reason is not acceptable. Where misalignment occurs, this will be considered defective product and a properly templated replacement door or frame will be required to satisfy the condition.
- B. Remove grout and other bonding material from hollow metal work immediately after installation.
- C. Metallic-Coated Surfaces: Clean abraded areas and repair with galvanizing repair paint according to manufacturer's written instructions.

END OF SECTION 081113

SECTION 096400 - WOOD FLOORING

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 factory-finished wood flooring.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Sustainable Design Submittals:
 - 1. Certificates: Chain-of-custody certificates certifying that products specified to be made from certified wood comply with forest certification requirements. Include evidence that mill is certified for chain of custody by an FSC-accredited certification body. Include statement indicating cost for each certified wood product.
- C. Shop Drawings: For each type of floor assembly and accessory. Include plans, elevations, sections, details, and attachments to other work. Include expansion provisions and trim details.
- D. Samples for Initial Selection: Manufacturer's color charts showing the full range of colors and finishes available for wood flooring.
- E. Samples for Verification: For each type of wood flooring and accessory, with stain color and finish required, approximately 12 inches long and of same thickness and material indicated for the Work and showing the full range of normal color and texture variations expected.

1.4 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials described below, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - 1. Wood Flooring: Equal to 1 percent of amount installed for each type of wood flooring indicated.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: A qualified manufacturer that is certified for chain of custody by an FSC-accredited certification body.
- B. Hardwood Flooring: Comply with NOFMA's "Official Flooring Grading Rules" for species, grade, and cut.
 - 1. Certification: Provide flooring that carries NOFMA grade stamp on each bundle or piece.
- C. Build mockup of typical flooring area as shown on Drawings, or if not indicated, as selected by Architect, including base and shoe moldings.
 - 1. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 - 2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver wood flooring materials in unopened cartons or bundles.
- B. Protect wood flooring from exposure to moisture. Do not deliver wood flooring until after concrete, masonry, plaster, ceramic tile, and similar wet work is complete and dry.
- C. Store wood flooring materials in a dry, warm, ventilated, weathertight location.

1.7 FIELD CONDITIONS

- A. Conditioning period begins not less than seven days before wood flooring installation, is continuous through installation, and continues not less than seven days after wood flooring installation.
 - 1. Environmental Conditioning: Maintain an ambient temperature between 65 and 75 deg F and relative humidity planned for building occupants in spaces to receive wood flooring during the conditioning period.
 - 2. Wood Flooring Conditioning: Move wood flooring into spaces where it will be installed, no later than the beginning of the conditioning period.
 - a. Do not install flooring until it adjusts to relative humidity of, and is at same temperature as, space where it is to be installed.
 - b. Open sealed packages to allow wood flooring to acclimatize immediately on moving flooring into spaces in which it will be installed.
- B. After conditioning period, maintain relative humidity and ambient temperature planned for building occupants.

- C. Install factory-finished wood flooring after other finishing operations, including painting, have been completed.

1.8 WARRANTY

- A. Special Warranty for Wood Flooring: Manufacturer agrees to repair or replace components of wood flooring that fail in materials or workmanship within specified warranty period.
 - 1. Warranty does not include deterioration or failure of wood flooring due to unusual traffic, failure of substrate, vandalism, or abuse.
 - 2. Warranty Period for Structural Defects: Lifetime, against delamination, separation, buckling, or cupping as a result of manufacturing defect.
 - 3. Warranty Period for Finish: 10 years from date of Substantial Completion, against wear through or separation from the flooring as a result of manufacturing defect.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. FloorScore Compliance: Wood floors shall comply with requirements of FloorScore Standard.
- B. Low-Emitting Materials: Wood flooring systems shall comply with the testing and product requirements of the California Department of Health Services' "Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers."

2.2 FACTORY-FINISHED WOOD FLOORING

- A. Engineered-Wood Flooring: HPVA EF, except bonding agent contains no urea formaldehyde.
 - 1. Engineered-wood flooring shall be approved in writing by manufacturer for installation over radiant heat.
- B. Engineered Bamboo Flooring Strand Type: Strand grain with cross-ply engineered construction. Top layer 5/32-inch thick strand bamboo with laminated together with square edges exposed on a 100-percent bamboo cross-ply core and bamboo backing designed to work with the glueless, self-locking system.
 - 1. Basis-of-Design Product: Subject to compliance with requirements, provide Teragren LLC; Synergy Strand Bamboo, or equal.
 - 2. Bamboo Flooring:
 - a. Species: Moso Bamboo (*Phyllostachys Pubescens*).
 - b. Top Layer: 5/32-inch strand bamboo.
 - c. 100-percent bamboo cross-ply core and bamboo backing.

- d. Bamboo Harvest: Bamboo harvested between 5-1/2 to 6 years to ensure color clarity, hardness and stability of fiber.
- e. Size: 7-11/16 inches wide by 9/16 inch thick by 75 inches in length.
- f. Edges and Ends: Square edges.
- g. Installation: Glueless, self locking system.
 - 1) Basis-of-Design Product: Subject to compliance with requirements, provide Teragren LLC; Välinge Glueless, Self Locking System, or equal.
- h. Chemical Treatment: Natural borate solution and hydrogen peroxide to eliminate pests and mildew applied to raw bamboo materials prior to manufacturing at time of manufacture.
- i. Finish: Seven-coat, 100 percent solids, non off-gassing, water-based system with aluminum oxide including two top coats of scratch-resistant polyurethane.

3. Physical Property Performance Requirements:

- a. Hardness: ASTM D 1037, Janka Ball: Wheat 3,438; Chestnut 3,428; Brindle 2,731; Java 3,489 (Represents 4mm Synergy wear surface.)
- b. Dimensional Stability, 50 to 80-Percent Relative Humidity; ASTM D 1037, Dimensional Change Coefficient: 0.001 parallel / 0.0032 perpendicular / 0.0074 thickness.
- c. Slip Resistance: ASTM D 394, Coefficient of Friction Average; Static 0.592; Sliding 0.62.
- d. Abrasion Resistance, ASTM D 4060, CS-17 Taber Abrasive Wheels: Final wear-through: Minimum 27,500 cycles.
- e. Moisture Content: ASTM D 4442, Oven Dry Method: 6-8 percent average.
- f. Formaldehyde Emissions: ASTM E 1333: 0.021 ppm maximum average.
- g. Thermal Resistance: ASTM C 518-04: R value of 0.49.

4. Color: As selected by Architect in manufacturer's full range.

2.3 ACCESSORY MATERIALS

A. Floating-Floor Pad Underlayment: Manufacturer's recommended product designed for floating floor installations that is suitable for use with radiant flooring.

~~B. Radiant Flooring Underlayment:~~

~~1. Basis-of-Design Product: Subject to compliance with requirements, provide Viega; Assembled Climate Panel System, or equal.~~

C. Vapor Retarder: ASTM D 4397, polyethylene sheet not less than 6.0 mils thick.

D. Plywood Underlayment: DOC PS 1, APA rated, C-D plugged, Exposure 1, 48 inches by 96 inches, southern yellow pine; thickness as indicated.

~~E. Radiant Flooring Radiant Barrier: As recommended by radiant flooring manufacturer.~~

- F. Trowelable Leveling and Patching Compound: Latex-modified, hydraulic-cement-based formulation approved by wood flooring manufacturer.
- G. Thresholds and Saddles: To match wood flooring. Tapered on each side.
- H. Reducer Strips: To match wood flooring. 2 inches wide, tapered, and in thickness required to match height of flooring.
- I. Cork Expansion Strip: Composition cork strip.
- J. Wood Air Vents and Grilles: To match wood flooring and in sizes and design indicated on Drawings.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates, areas and conditions, with Installer present, for compliance with requirements for maximum moisture content, installation tolerances, and other conditions affecting performance of wood flooring.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.
- C. Concrete Slabs: Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.
 - 1. Moisture Testing: Perform tests so that each test area does not exceed 200 sq. ft., and perform no fewer than two tests in each installation area and with test areas evenly spaced in installation areas.
 - a. Perform anhydrous calcium chloride test per ASTM F 1869, as follows:
 - 1) Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. in 24 hours.
 - b. Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.

3.2 PREPARATION

- A. Concrete Slabs: Grind high spots and fill low spots to produce a maximum 1/8-inch deviation in any direction when checked with a 10-foot straight edge.
 - 1. Use trowelable leveling and patching compounds, according to manufacturer's written instructions, to fill cracks, holes, and depressions in substrates.
- B. Broom or vacuum clean substrates to be covered immediately before product installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation,

or dust. Proceed with installation only after unsatisfactory conditions have been corrected.

3.3 INSTALLATION

- A. Comply with flooring manufacturer's written installation instructions, but not less than applicable recommendations in NWFA's "Installation Guidelines: Wood Flooring.
- B. Vapor Retarder: Comply with NOFMA's "Installing Hardwood Flooring" for vapor retarder installation and the following:
 - 1. Cover entire slab area beneath wood flooring. Install with joints lapped a minimum 6 inches and sealed.
- C. Plywood Underlayment: ~~Install plywood underlayment with 1/4 inch spacing at edges and staggering joints at 48 inches. Leave 3/32 inch space at joints. Securely anchor to concrete substrate with hot-dip zinc coated fasteners complying with ASTM A 153, and Table 2304.9.1, "Fastening Schedule," in ICC's "International Building Code."~~ **Install plywood underlayment in 48 inch by 48 inch squares (one sheet cut in half) in a running bond pattern (joints staggered 24 inches in one direction) with 1/8" spacing at edges. Provide 5/16" deep sawcut 'kerfs' at underside of plywood at 12" o.c. each way. Securely glue to concrete substrate with Bostik's Best Wood Flooring Urethane Adhesive.**
 - 1. **Comply with Bostik's written instructions, including product technical bulletins and product package instructions.**
 - 2. **Apply material to substrate using appropriate trowel, and to achieve thickness recommended by Bostik.**
 - 3. **Install using 'Wet-Lay' or 'Walk-on-Work' method.**
 - 4. **Apply material to an area no greater that can be covered in amount of time recommended by Bostik.**
- ~~D. Radiant Barrier: Install radiant barrier according to radiant flooring manufacturer's recommendations.~~
- ~~E. Radiant Flooring Underlayment: Install according to manufacturer's written instructions.~~
 - ~~1. Install radiant flooring specified in Division 23 specification Sections.~~
- F. Floating-Floor Pad Underlayment Installation: Install according to manufacturer's written instructions.
- G. Install wood flooring planks by floating-floor method.
- H. Pattern: Lay flooring parallel with long dimension of space receiving wood flooring, unless otherwise indicated.
- I. Accessories: Install using methods appropriate to accessory and flooring system.
- J. Installation Tolerances: 1/8 inch in 10 feet of variance from level.

3.4 PROTECTION

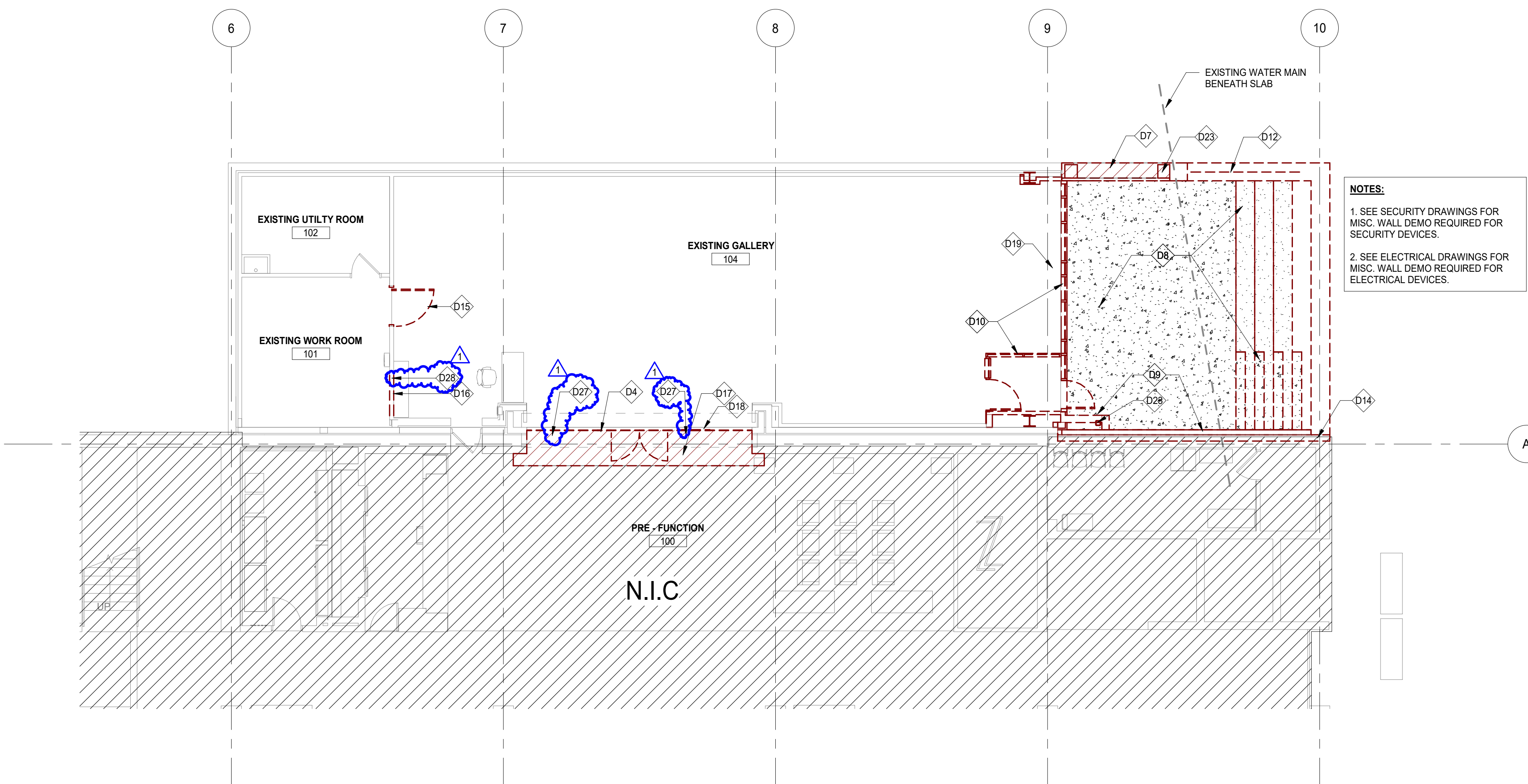
- A. Protect installed wood flooring during remainder of construction period with covering of heavy kraft paper or other suitable material, secured with non-tacky blue floor tape. Do not use plastic sheet or film that might cause condensation.
 - 1. Do not move heavy and sharp objects directly over kraft-paper-covered wood flooring. Protect flooring with plywood or hardboard panels to prevent damage from storing or moving objects over flooring.

END OF SECTION 096400

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



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

NOTES:
1. SEE SECURITY DRAWINGS FOR MISC. CEILING DEMO REQUIRED FOR SECURITY DEVICES.
2. SEE ELECTRICAL DRAWINGS FOR MISC. DEMO REQUIRED FOR ELECTRICAL DEVICES.

NOTES:
1. SEE SECURITY DRAWINGS FOR MISC. WALL DEMO REQUIRED FOR SECURITY DEVICES.
2. SEE ELECTRICAL DRAWINGS FOR MISC. WALL DEMO REQUIRED FOR ELECTRICAL DEVICES.

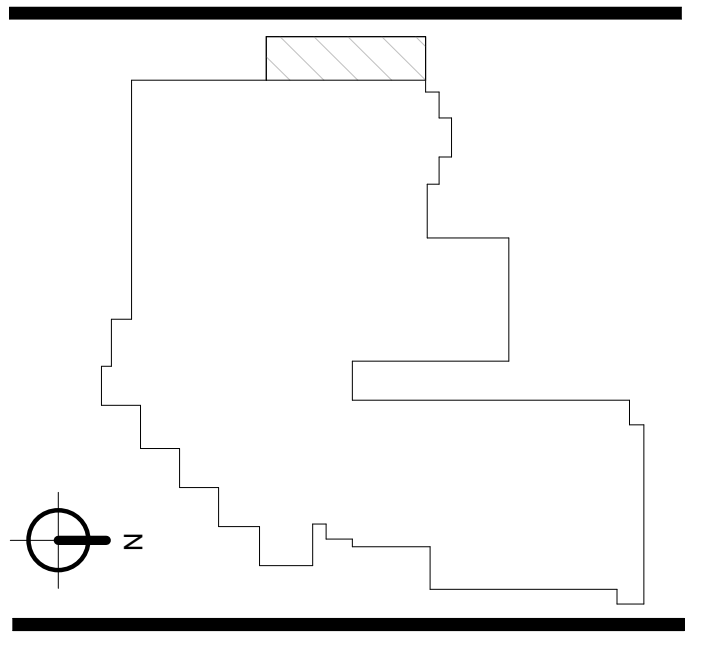
FLOOR PLAN LEGEND	
	EXISTING WALLS TO REMAIN.
	EXISTING WALLS TO BE DEMOLISHED.
	EXISTING DOOR TO REMAIN. REFER DOOR SCHEDULE FOR REQUIRED MODIFICATIONS.
	EXISTING DOOR TO BE DEMOLISHED.

GENERAL NOTES	
1.	ALL ITEMS THAT ARE TO BE REMOVED AND REINSTALLED OR SAVED ARE TO BE TAGGED AND CAREFULLY STORED (SEE OWNER FOR LOCATION).
2.	ALL AREAS AFFECTED BY DEMOLITION TO BE PATCHED, REPAIRED, & LEVELED TO MATCH EXISTING ADJACENT SURFACE (MATCH EXISTING CONDITION AT DOOR JAMBS) VERIFY IN FIELD.
3.	THE CONSTRUCTION DOCUMENTS INDICATE THE OVERALL AREAS OF WORK. INCIDENTAL WORK ASSOCIATED BUT NOT SHOWN ON THE CONSTRUCTION DOCUMENTS MAY BE REQUIRED OUTSIDE THE PROJECT AREAS. THIS WORK IS PART OF THE CONSTRUCTION CONTRACT AND IS TO BE COMPLETED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
4.	ALL ITEMS INDICATED TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DAMAGED ITEMS ARE TO BE PATCHED & REPAIRED OR REPLACED AS REQUIRED TO MATCH ADJACENT SURFACE, AT NO ADDITIONAL COST TO THE OWNER.
5.	WHEN THE REMOVAL OF EXISTING SURFACE MATERIAL IS REQUIRED TO COMPLETE CONTRACT WORK AND A NEW FINISH IS NOT SCHEDULED, PATCH/REPAIR AND PRIME THE AFFECTED SURFACE TO RECEIVE NEW FINISH.
6.	NEW SLEEVES AND OPENINGS IN THE EXISTING FLOOR, WALL & CEILING CONSTRUCTION ARE TO BE SEALED WITH FIRE SAFETY MATERIAL.
7.	U.I.O. CONTRACTOR TO REMOVE EXISTING FLOORING AND BASE AS REQUIRED TO ACCOMMODATE DOOR ASSEMBLIES. PATCH/REPAIR AS NECESSARY TO MATCH ADJACENT SURFACES.
8.	REFER TO MEP-FP DRAWINGS FOR DEMOLITION / REMOVAL / RELOCATION AND INSTALLATION OF FIXTURES AND DEVICES.
9.	REFER TO SHEET AD.1 FOR TYPICAL FIXTURE MOUNTING HEIGHTS AND ADA COMPLIANT PLANS, ELEVATIONS, AND DETAILS.
10.	UPON REMOVAL OF DOORS, SHORE OPENINGS AS REQUIRED. SECURE ALL NEW FRAMES PER MANUFACTURERS RECOMMENDATIONS. PROVIDE LINTELS AS REQUIRED. SEE STRUCTURAL DRAWINGS.
11.	ON DOORS THAT ARE TO BE REMOVED RETURN ALL DOOR HARDWARE TO OWNER.
12.	ALL ELECTRICAL DEVICES & ASSEMBLIES BEING AFFECTED BY DEMO OF DOORS TO BE REINSTALLED AND RECONNECTED AT NO ADDITIONAL COST TO THE OWNER.

REFLECTED CEILING PLAN LEGEND	
	EXISTING WALLS TO REMAIN.
	EXISTING WALLS TO BE DEMOLISHED.
	EXISTING CEILINGS TO REMAIN
	EXISTING CEILINGS TO BE DEMOLISHED.

#	DEMOLITION KEY NOTES
D1	REMOVE AND DEMOLISH CEILING AS REQUIRED FOR INSTALLATION OF NEW MEPPFP ITEMS. REMOVE ALL CEILING DEVICES THAT CONFLICT WITH NEW WORK IN THIS AREA AND PREPARE FOR NEW CEILING. SEE MEP-FP DRAWINGS.
D2	REMOVE AND DEMOLISH EXISTING LAMP FIXTURES. REMOVE AND REINSTALL "TRACK" PORTION OF TRACK FIXTURE TO HOUSE NEW LIGHT LAMPS AS REQUIRED.
D3	EXISTING CEILING TO REMAIN.
D4	REMOVE GLASS ENTRANCE. PREPARE OPENING FOR INSTALLATION OF NEW SWING DOORS PER NEW DRAWINGS.
D6	REMOVE EXISTING CANOPY ROOF STRUCTURE, CONSISTING OF ROOFING AND INSULATION, PRECAST CONCRETE PLANK DECK, ARCHITECTURAL ALUMINUM EXTERIOR CEILING/FASCIA COMPONENTS, STEEL BEAMS AND POSTS, ETC.
D7	REMOVE EXTERIOR PRECAST CLADDING, ALL STEEL OR MASONRY SUPPORT STRUCTURE, ARCHITECTURAL LOUVERS, ETC.
D8	REMOVE CAST IN PLACE CONCRETE SLAB, CONCRETE SEATING, STAIRS, AND ALL ASSOCIATED STONE CLADDING.
D9	REMOVE STONE WALL CLADDING
D10	REMOVE GLASS CURTAIN WALL, GLASS ENCLOSED VESTIBULE, AND VESTIBULE CONCRETE FLOOR SLAB. SEE STRUCTURAL.
D12	REMOVE GLASS GUARD RAIL.
D14	REMOVE COPING AT STONE CLADDING.
D15	REMOVE HOLLOW METAL DOOR AND FRAME IN EXISTING GYPSUM BOARD WALL.
D16	REMOVE EXISTING GYPSUM BOARD WALL AND WOOD WALL BASE AS REQUIRED FOR NEW DOOR - SEE FLOOR PLAN
D17	REMOVE EXISTING CARPET AS REQUIRED FOR NEW WORK - SEE FLOOR PLAN
D18	REMOVE RECESSED DOOR THRESHOLD.
D19	REMOVE WOOD FLOORING AS REQUIRED FOR NEW WORK - SEE FLOOR PLAN
D20	ZONE OF ABOVE CEILING PLUMBING WORK - SEE PLUMBING
D21	REMOVE EXISTING ACCESS PANELS IN PREPARATION FOR NEW - TYP U.I.O.
D22	REMOVE EXISTING ACCESS PANELS - COORDINATE WITH MECH
D23	REMOVE STEEL COLUMNS - SEE STRUCTURAL
D24	REMOVE RECESSED GYPSUM BOARD SOFFIT/BULKHEAD
D25	ZONE OF ABOVE CEILING MECHANICAL WORK - SEE MECHANICAL
D26	REMOVE GYPSUM BOARD SOFFIT AS REQUIRED FOR NEW WORK - SEE REFLECTED CEILING PLAN
D27	NOTCH EXISTING CONCRETE SLAB AS REQUIRED FOR NEW GLASS ENTRANCE DOOR HARDWARE.
D28	NOTCH EXISTING CONCRETE SLAB AS REQUIRED FOR NEW PIVOT HINGE DOOR HARDWARE.

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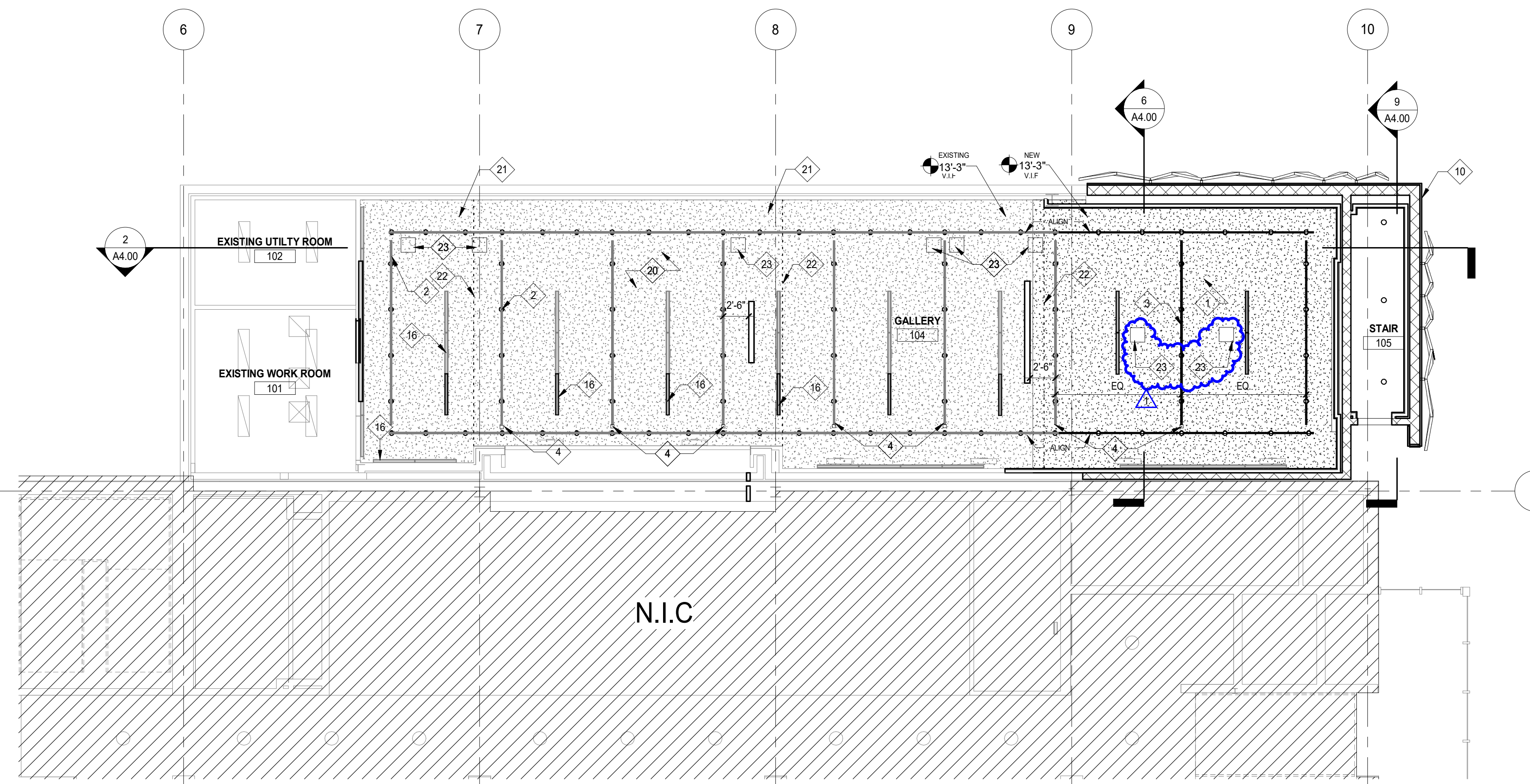
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DEMOLITION PLANS

Project Number:
190051
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C.C.
Sheet:
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1 FIRST FLOOR REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

- NOTES:**
- PATCH ALL EXISTING CEILING AFFECTED BY MECHANICAL, PLUMBING, ELECTRICAL, AND SECURITY, ETC. - MATCH NEW GYPSUM BOARD CEILING CONSTRUCTION
 - PAINT ENTIRE CEILING/ EXPOSED DECK (EXISTING PLUS NEW, IN ROOMS 103 AND 105)
- NEW GYPSUM BOARD CEILING CONSTRUCTION:** CEILING 5/8" GYPSUM BOARD OVER 5 MIL VAPOR RETARDER OVER 3/4" PLYWOOD - ALIGN WITH EXISTING CEILING OVER SUSPENDED CEILING FRAMING SYSTEM.

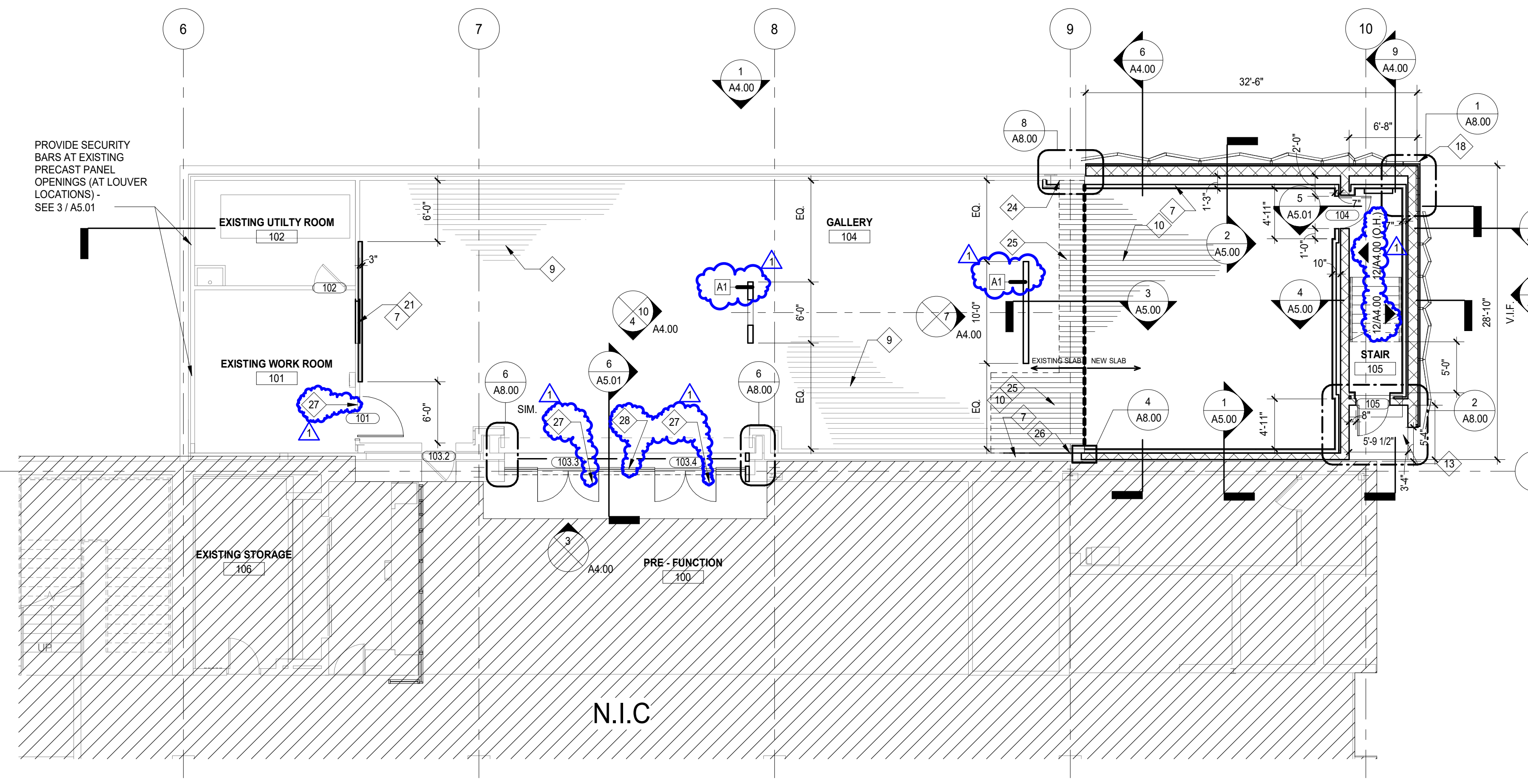
- GENERAL NOTES**
- ALL ITEMS THAT ARE TO BE REMOVED AND REINSTALLED OR SAVED ARE TO BE TAGGED AND CAREFULLY STORED (SEE OWNER FOR LOCATION)
 - ALL AREAS AFFECTED BY DEMOLITION TO BE PATCHED, REPAIRED, & LEVELED TO MATCH EXISTING ADJACENT SURFACE (MATCH EXISTING CONDITION AT DOOR JAMBS) VERIFY IN FIELD.
 - THE CONSTRUCTION DOCUMENTS INDICATE THE OVERALL AREAS OF WORK. INCIDENTAL WORK ASSOCIATED BUT NOT SHOWN ON THE CONSTRUCTION DOCUMENTS MAY BE REQUIRED OUTSIDE THE PROJECT AREAS. THIS WORK IS PART OF THE CONSTRUCTION CONTRACT AND IS TO BE COMPLETED IN ACCORDANCE WITH THE CONTRACT REQUIREMENTS AT NO ADDITIONAL COST TO THE OWNER.
 - ALL ITEMS INDICATED TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DAMAGED ITEMS ARE TO BE PATCHED & REPAIRED OR REPLACED AS REQUIRED TO MATCH ADJACENT SURFACE, AT NO ADDITIONAL COST TO THE OWNER.
 - WHEN THE REMOVAL OF EXISTING SURFACE MATERIAL IS REQUIRED TO COMPLETE CONTRACT WORK AND A NEW FINISH IS NOT SCHEDULED, PATCH/REPAIR AND PRIME THE AFFECTED SURFACE TO RECEIVE NEW FINISH.
 - NEW SLEEVES AND OPENINGS IN THE EXISTING FLOOR, WALL & CEILING CONSTRUCTION ARE TO BE SEALED WITH FIRE SAFETY MATERIAL.
 - U.N.O. CONTRACTOR TO REMOVE EXISTING FLOORING AND BASE AS REQUIRED TO ACCOMMODATE DOOR ASSEMBLIES. PATCH/REPAIR AS NECESSARY TO MATCH ADJACENT SURFACES.
 - REFER TO MEP-FP DRAWINGS FOR DEMOLITION / REMOVAL / RELOCATION AND INSTALLATION OF FIXTURES AND DEVICES.
 - REFER TO SHEET A0.1 FOR TYPICAL FIXTURE MOUNTING HEIGHTS AND ADA COMPLIANT PLANS, ELEVATIONS, AND DETAILS.
 - UPON REMOVAL OF DOORS, SHORE OPENINGS AS REQUIRED. SECURE ALL NEW FRAMES PER MANUFACTURERS RECOMMENDATIONS. PROVIDE LINTELS AS REQUIRED. SEE STRUCTURAL DRAWINGS.
 - ON DOORS THAT ARE TO BE REMOVED RETURN ALL DOOR HARDWARE TO OWNER.
 - ALL ELECTRICAL DEVICES & ASSEMBLIES BEING AFFECTED BY DEMO OF DOORS TO BE REINSTALLED AND RECONNECTED AT NO ADDITIONAL COST TO THE OWNER.

- FLOOR PLAN LEGEND**
- EXISTING WALL
 - NEW WALL
 - NEW DOOR. REFER TO SHEET AXI FOR DOOR SCHEDULE
 - EXISTING DOOR TO REMAIN. REFER TO SHEET AXI FOR DOOR SCHEDULE FOR REQUIRED MODIFICATIONS.
 - METAL LOCKER- 5% OF TOTAL PROVIDED QUANTITY SHALL BE ACCESSIBLE. COORDINATE ADA COMPLIANT LOCKER LOCATIONS WITH ARCHITECT/OWNER PRIOR TO INSTALLATION
 - PARTITION TYPE. REFER TO SHEET A8.00
 - ALUMINUM STOREFRONT/WINDOW TYPE. REFER TO SHEET A8.2
 - DOOR TAG. REFER TO SHEET A8.03 FOR DOOR SCHEDULE

- GENERAL NOTES**
- TYPICAL CEILINGS SHALL BE +9'-6" AFF UNLESS NOTED OTHERWISE
 - ALL LIGHT FIXTURES CENTERED IN ROOM UNLESS NOTED OTHERWISE.
 - CENTER ALL CEILING MOUNTED DEVICES WITHIN 2X2 OR 2X4 SECTION OF SCORED 2X4 CEILING TILE TYP.
 - PAINT EXPOSED UNDERSIDE OF ROOF DECK/FLOOR STRUCTURE, EXPOSED STRUCTURAL STEEL BEAMS, EXPOSED UTILITY PIPING AND ALL OTHER "PAINTABLE" SURFACES - SEE SPECIFICATIONS FOR FURTHER CLARIFICATION.
 - REMOVE ALL CEILING DEVICES SUCH AS BUT NOT LIMITED TO: LIGHT FIXTURES, EXIT SIGNS, EMERGENCY DEVICES, EMERGENCY LIGHTS, AND ANY OTHER SUPPORT SYSTEMS THAT CONFLICT WITH NEW WORK.

- REFLECTED CEILING PLAN SYMBOL LEGEND**
- RECESSED CAN LIGHT FIXTURE
 - TRACK LIGHT FIXTURE (NEW LAMPS ON EXISTING TRACK)
 - TRACK LIGHT FIXTURE (NEW LAMPS AND TRACK)
 - EXISTING GYPSUM BOARD CEILING
 - NEW GYPSUM BOARD CEILING

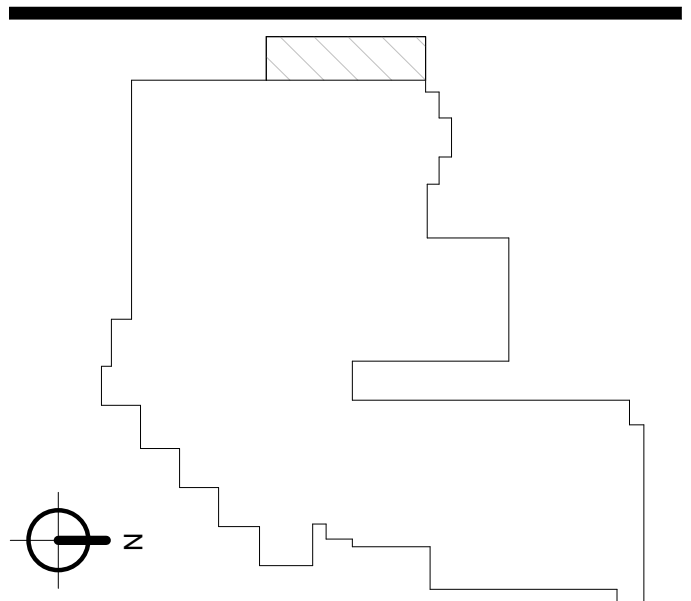
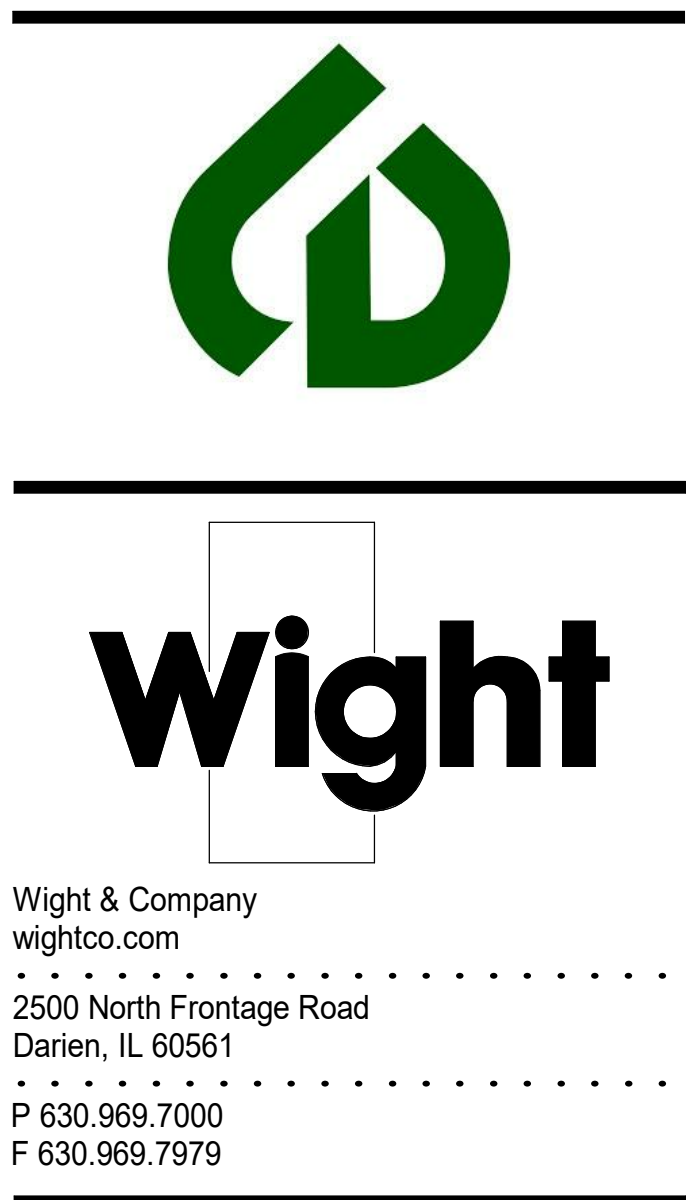
- KEYNOTES**
- NEW GYP. BOARD CEILING TO MATCH EXISTING HEIGHT
 - NEW LAMP LAYOUT ON EXISTING TRACK. SEE ELECTRICAL.
 - NEW TRACK AND LAMP LAYOUT. SEE ELECTRICAL
 - 4"x 4" JUNCTION BOX AT THIS LOCATION, SEE ELECTRICAL
 - PATCH EXISTING GYPSUM BOARD WALL - PAINT
 - EXISTING WOOD FLOORING TO REMAIN
 - NEW WOOD FLOORING TO MATCH EXISTING.
 - FROST STOOP
 - LINEAR DIFFUSERS, TYP. SEE MECHANICAL
 - EXTERIOR GRADE MONITORS, SEE EXTERIOR ELEVATIONS
 - REMOVE EXISTING CEILING SYSTEM AS REQD. FOR MECHANICAL, ELECTRICAL, STRUCTURAL, AND SECURITY SCOPE - SEE DRAWINGS FOR EACH DISCIPLINE
 - TO COORDINATE SCOPE AFFECTING EXISTING CEILING - RECONSTRUCT CEILING SYSTEM TO MATCH EXISTING, (EXCEPT- PROVIDE (-) MIL VAPOR RETARDER BETWEEN PLYWOOD AND GYPSUMBOARD.
 - PATCH WOOD WALL BASE - REMOVE, MODIFY, AND REINSTALL ADJACENT WOOD WALL BASE AS REQUIRED TO PATCH BASE USING SCARF JOINTS.
 - PROVIDE GYPSUM BOARD CONTROL JOINT - ALIGN WITH GYPSUM BOARD WALL CONTROL JOINT
 - NEW ACCESS PANEL
 - ALIGN GYPSUM BOARD WALL RETURN WITH GYPSUM BOARD CEILING CONTROL JOINT
 - REMOVE EXISTING WOOD/FLOORING ADJACENT TO NEW CONSTRUCTION AND INSTALL NEW WOOD FLOORING AS REQUIRED TO "TOOTH IN" NEW FLOORING AT EXISTING FLOORING.
 - PROVIDE GYPSUM BOARD CONTROL JOINT - ALIGN WITH GYPSUM BOARD CEILING CONTROL JOINT - SEE REFLECTED CEILING PLAN
 - PATCH CONCRETE SLAB AS REQUIRED AT NEW IN-SLAB DOOR HARDWARE.
 - PATCH CARPET TO MATCH EXISTING AT AREA OF NEW GLASS ENTRANCE.



2 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"

- NOTES:**
- PATCH ALL EXISTING WALLS AFFECTED BY MECHANICAL, PLUMBING, ELECTRICAL, AND SECURITY, ETC. - MATCH NEW GYPSUM BOARD CEILING CONSTRUCTION
 - PROVIDE NEW WOOD WALL BASE TO MATCH EXISTING AT NEW WALLS IN 104. REMOVE, MODIFY, AND REINSTALL ADJACENT WOOD WALL BASE AS REQUIRED TO PATCH BASE USING SCARF JOINTS.
 - PAINT ALL WALLS AND WOOD WALL BASE (EXISTING PLUS NEW, IN ROOMS 103 AND 105)
 - PROVIDE NEW RESILIENT WALL BASE IN ROOM 105.
 - PAINT ALL HOLLOW METAL DOOR AND FRAME SURFACES TO MATCH ADJACENT WALL COLOR (SEPARATE COLORS FOR EACH SIDE)
 - NEW WOOD FLOOR CONSTRUCTION: WOOD FLOORING OVER 5/8" PLYWOOD UNDERLAYMENT OVER MOISTURE VAPOR EMISSION CONTROL SYSTEM OVER CONCRETE SLAB - PLYWOOD SHALL BE INSTALLED IN 4' X 4' SQUARES IN A RUNNING BOND PATTERN WITH 1/8" SPACING AT EDGES - PROVIDE 5/16" DEEP SAWCUT KERFS AT UNDERSIDE OF PLYWOOD AT 12" O.C. EACH WAY.

PROVIDE SECURITY BARS AT EXISTING PRECAST PANEL OPENINGS (AT LOUVER LOCATIONS) - SEE 3 / A5.01



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FIRST FLOOR REFLECTED CEILING PLAN AND FLOOR PLAN

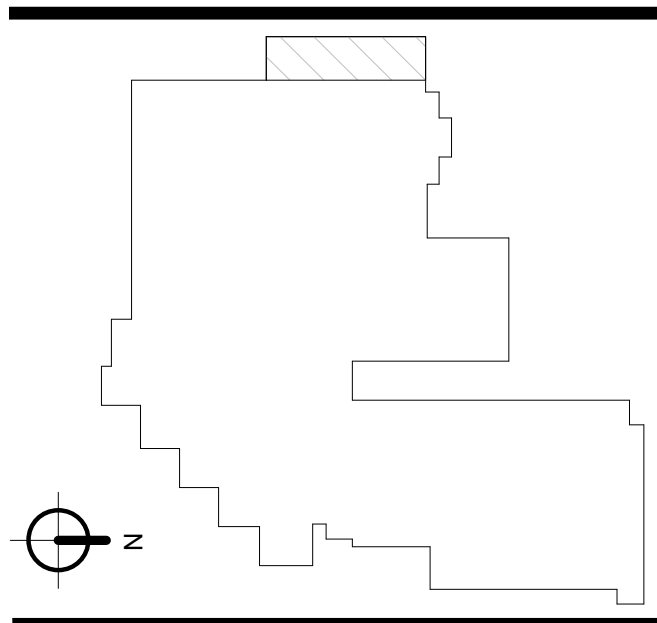
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	DESCRIPTION	DATE

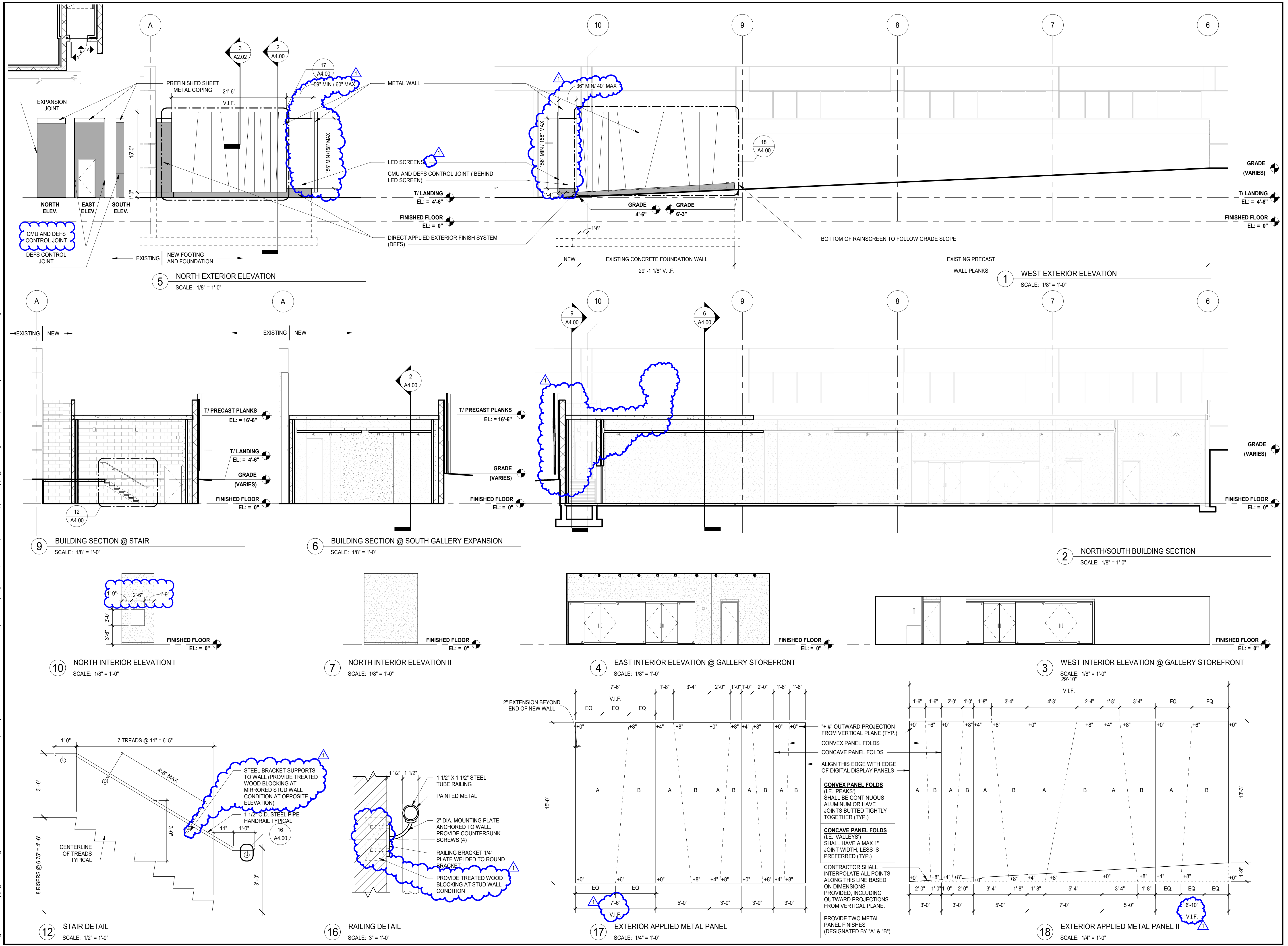
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EXTERIOR/INTERIOR ELEVATIONS

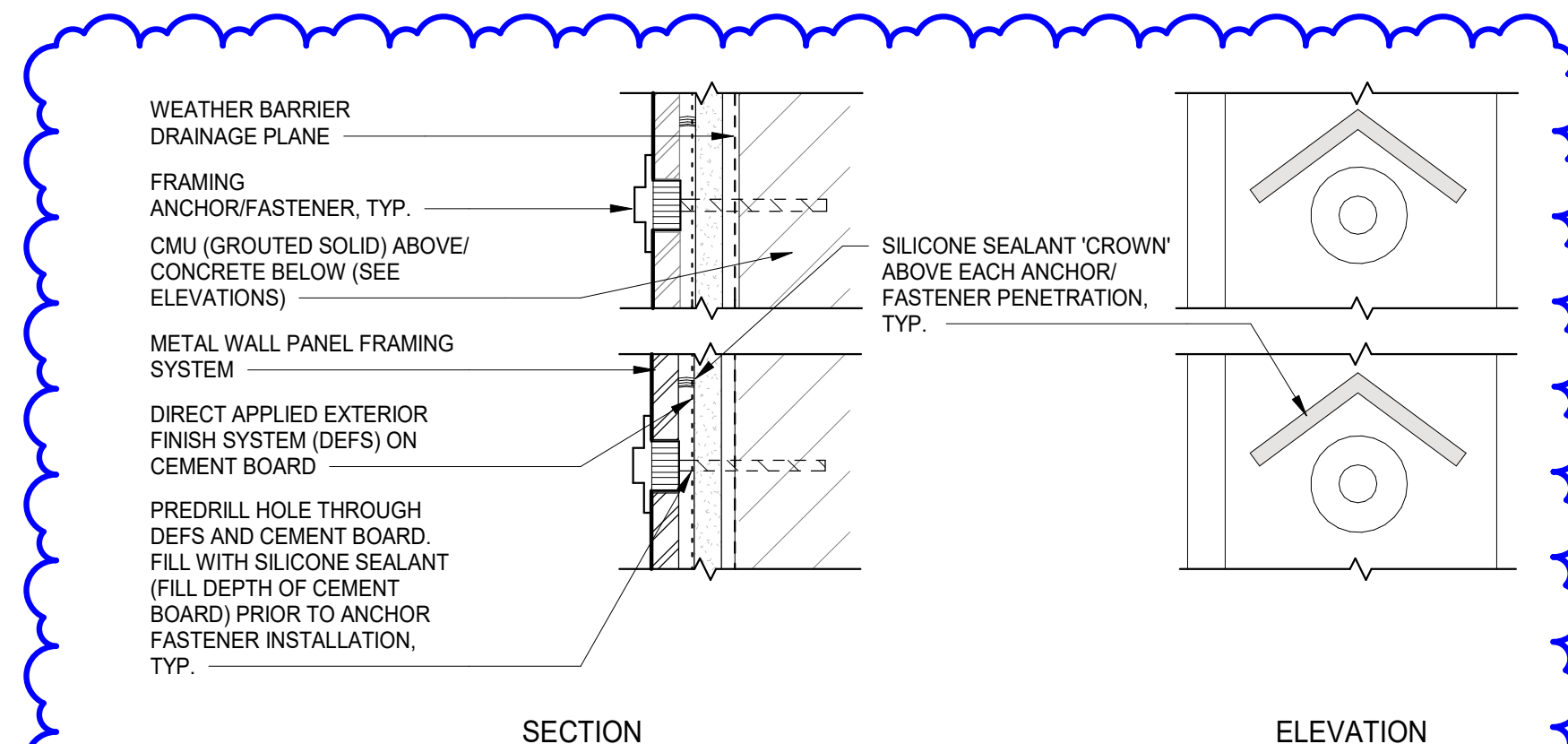
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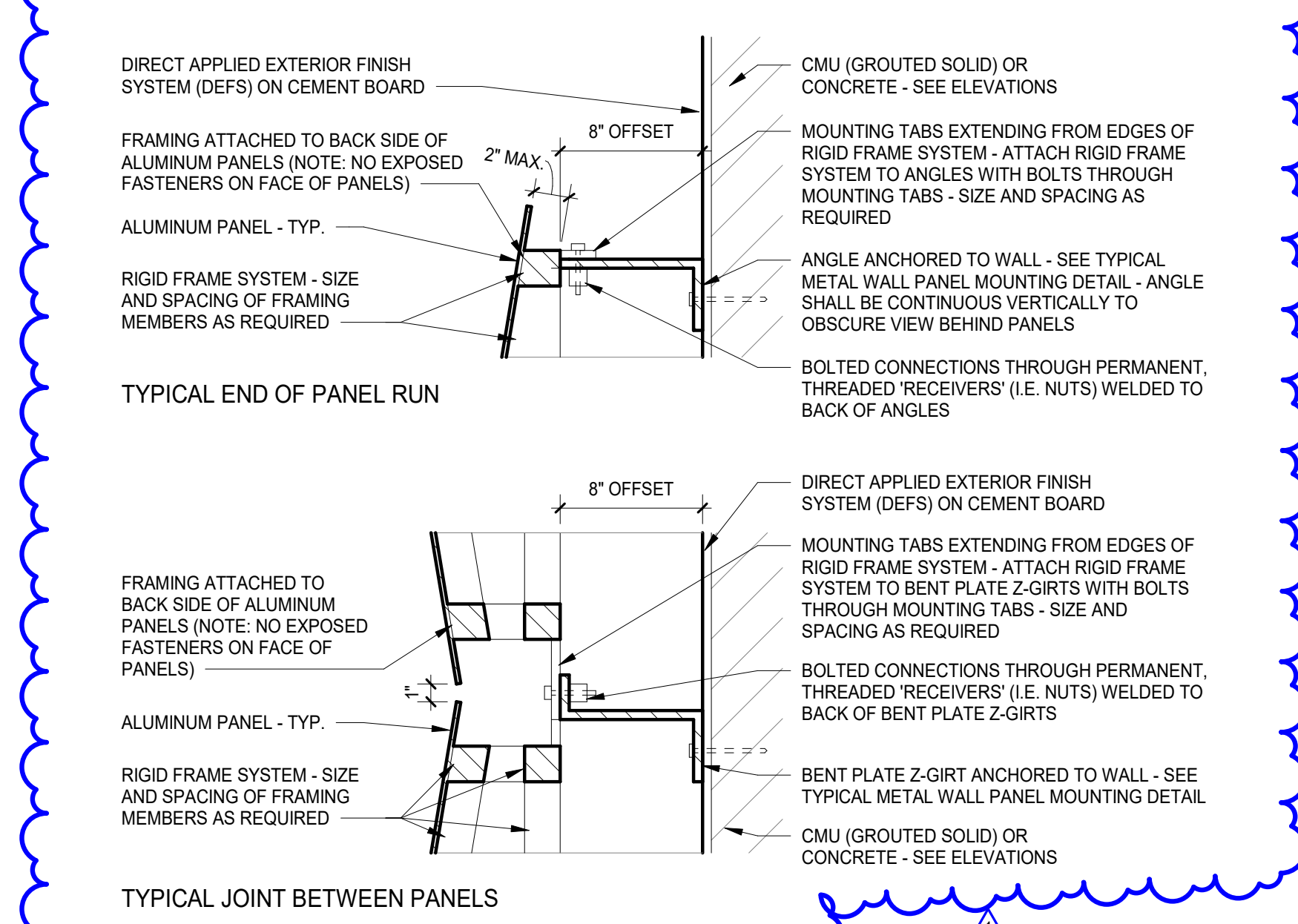


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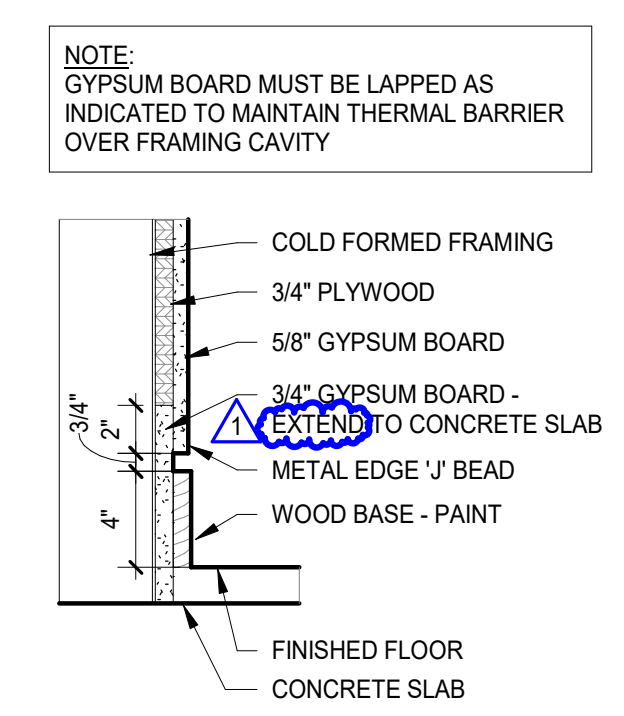
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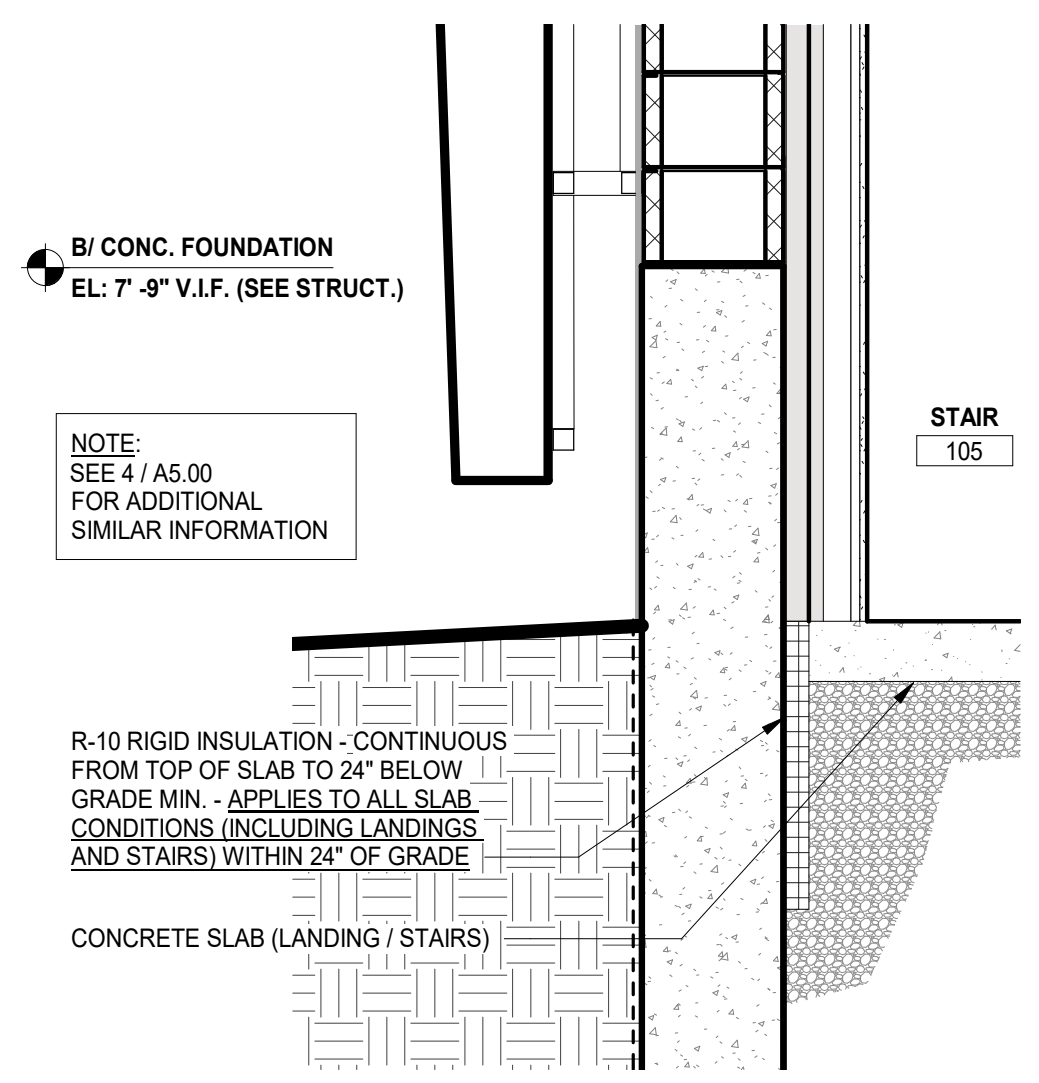
8 TYP. METAL WALL PANEL AND LED SCREEN CABINET MOUNTING DETAIL
SCALE: 1 1/2" = 1'-0"



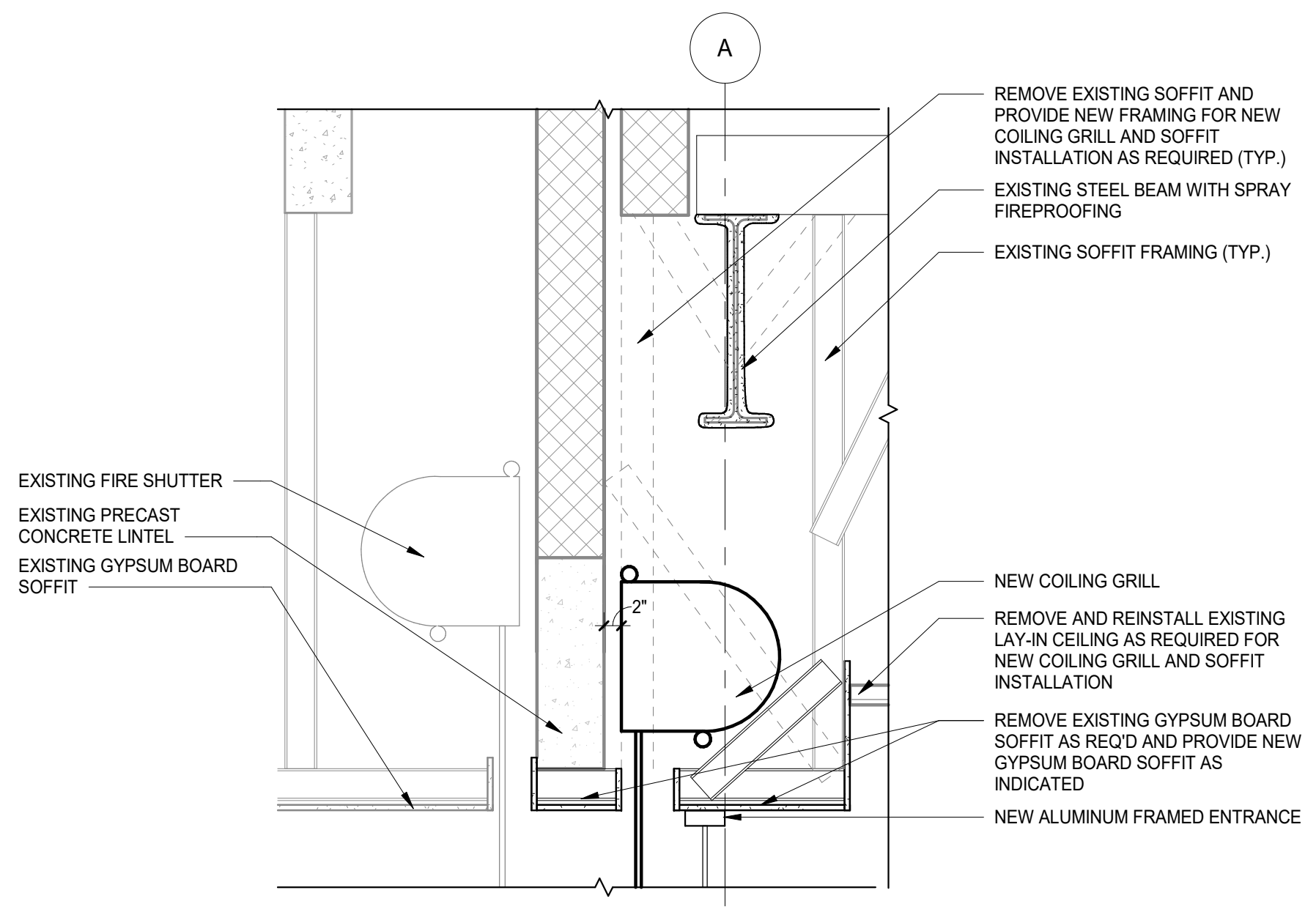
7 METAL PANEL FRAMING DETAILS
SCALE: 1 1/2" = 1'-0"



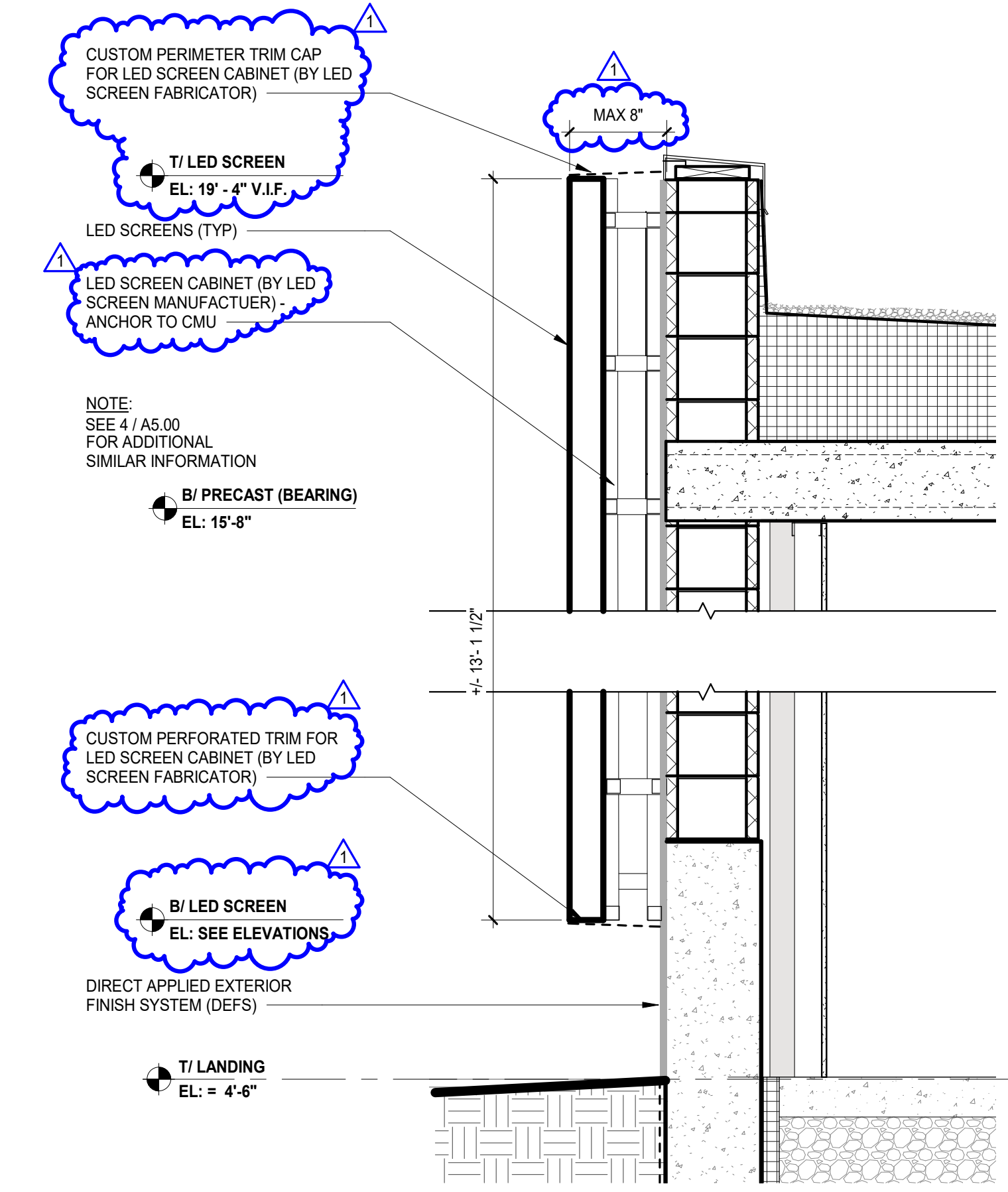
4 TYPICAL WALL BASE DETAIL
SCALE: 1 1/2" = 1'-0"



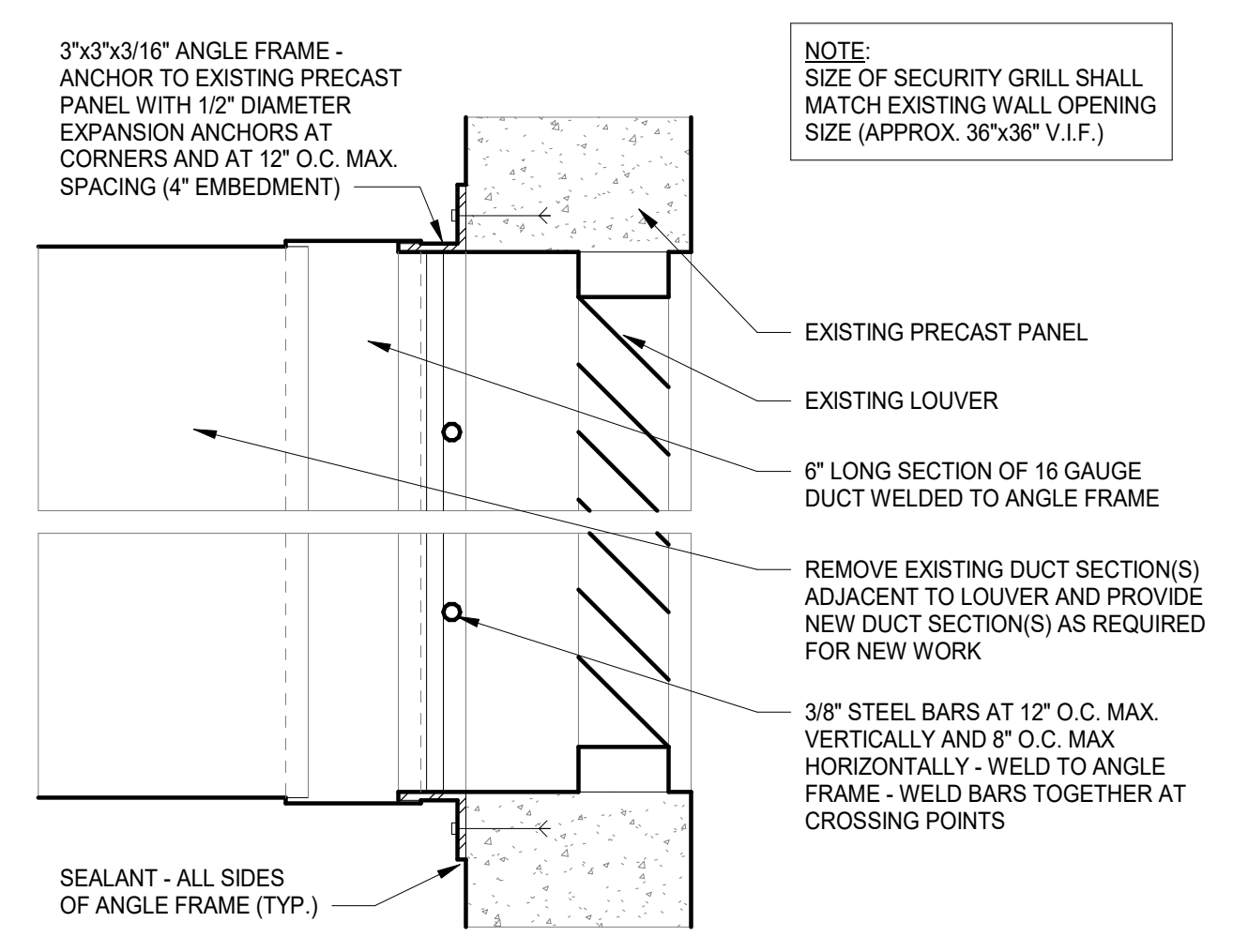
2 WALL SECTION AT UPPER STAIR LANDING
SCALE: 3/4" = 1'-0"



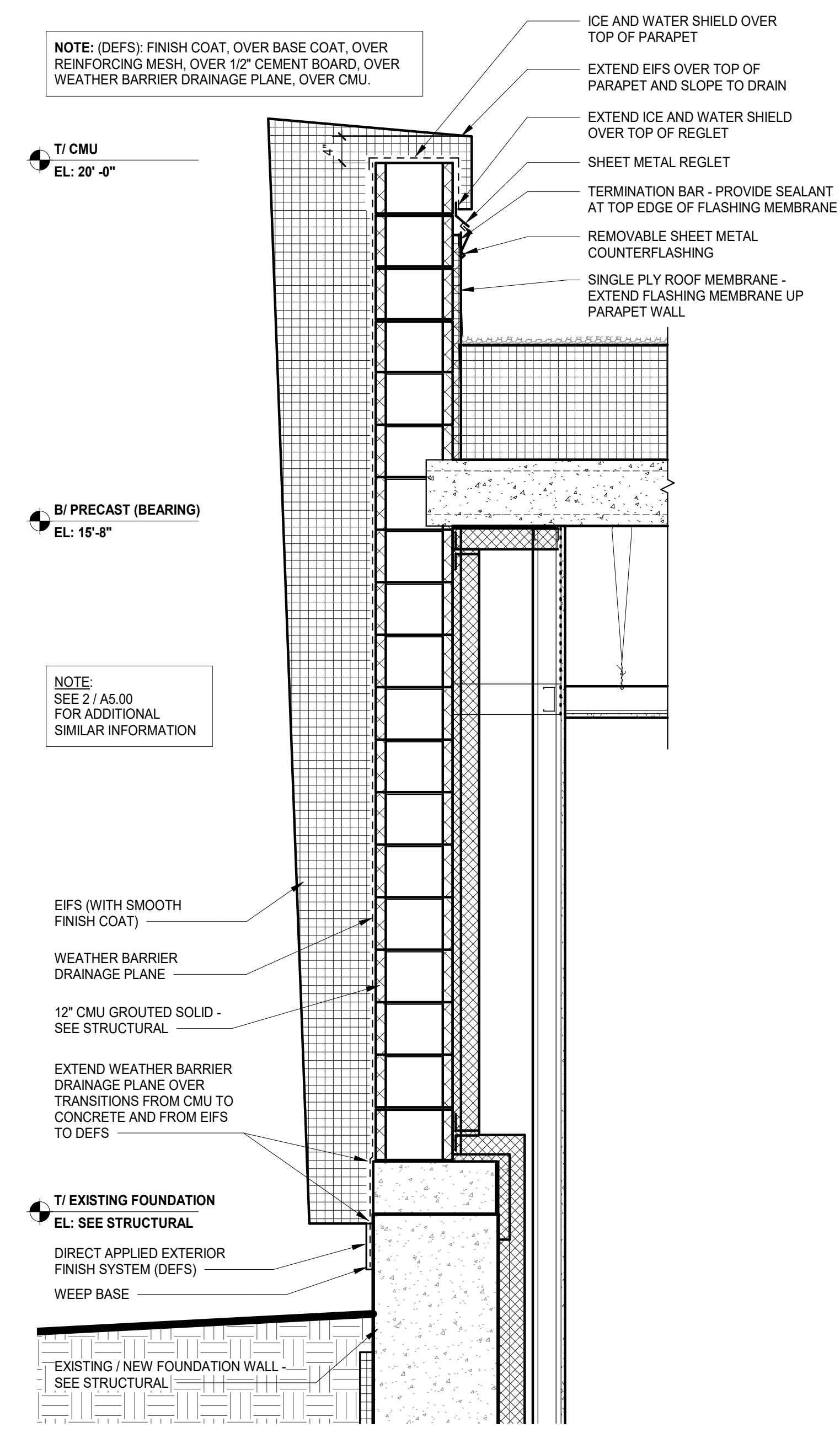
6 DETAIL @ COILING GRILL
SCALE: 3/4" = 1'-0"



5 WALL SECTION @ DIGITAL DISPLAY PANELS
SCALE: 3/4" = 1'-0"



3 SECURITY BARS
SCALE: 1 1/2" = 1'-0"

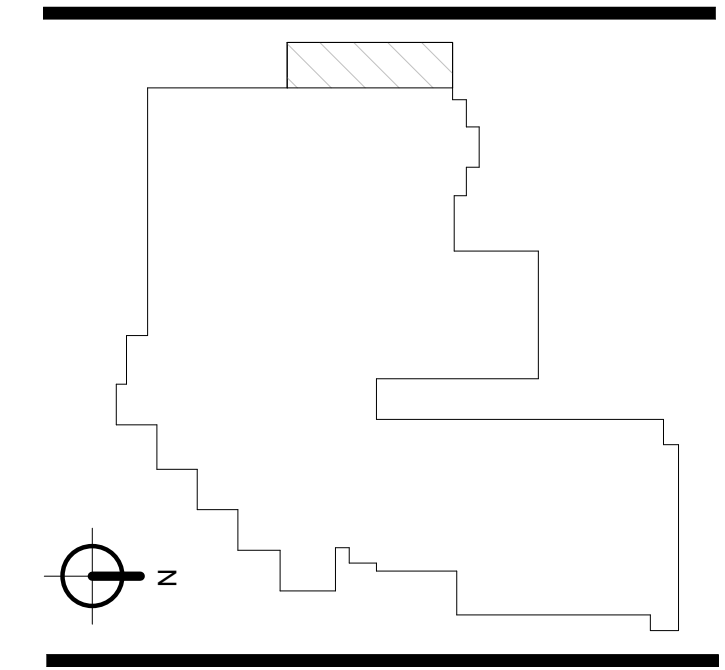


1 ALTERNATE WALL SECTION
SCALE: 3/4" = 1'-0"



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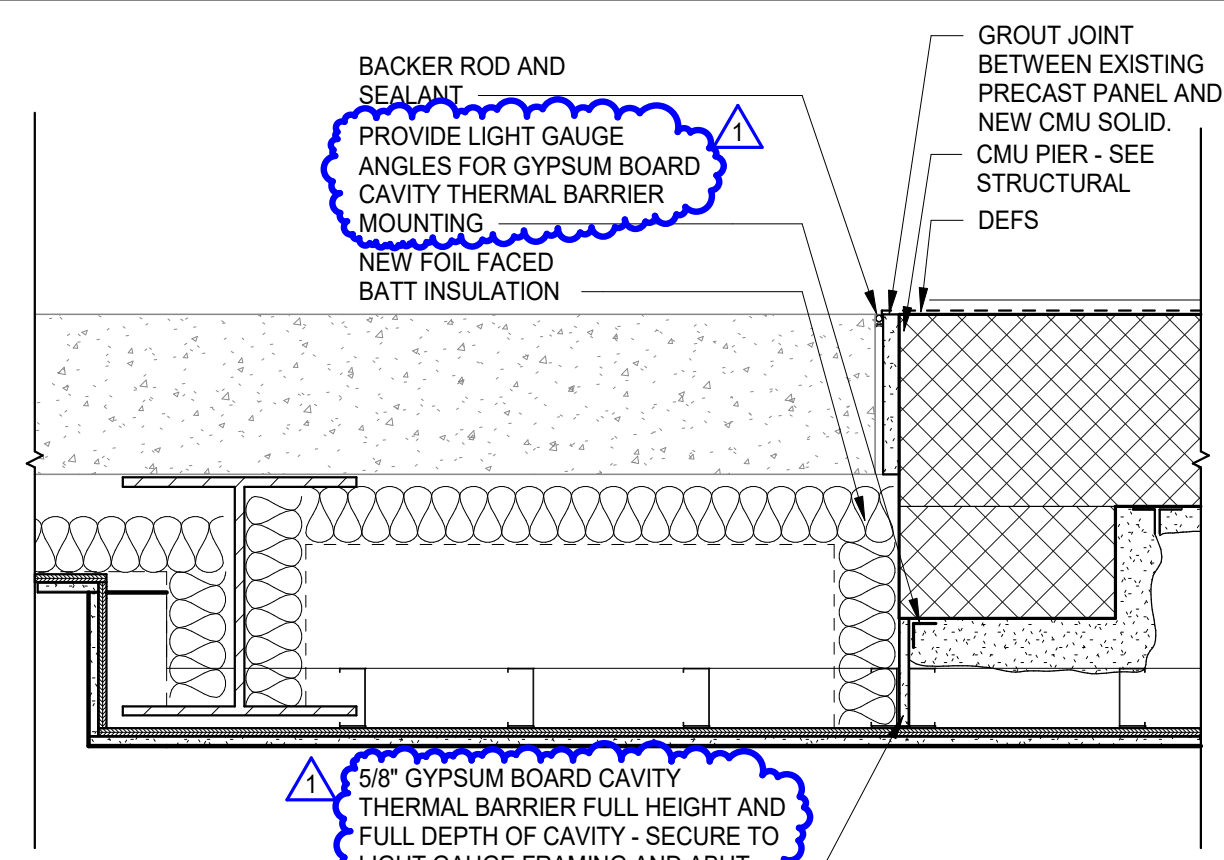
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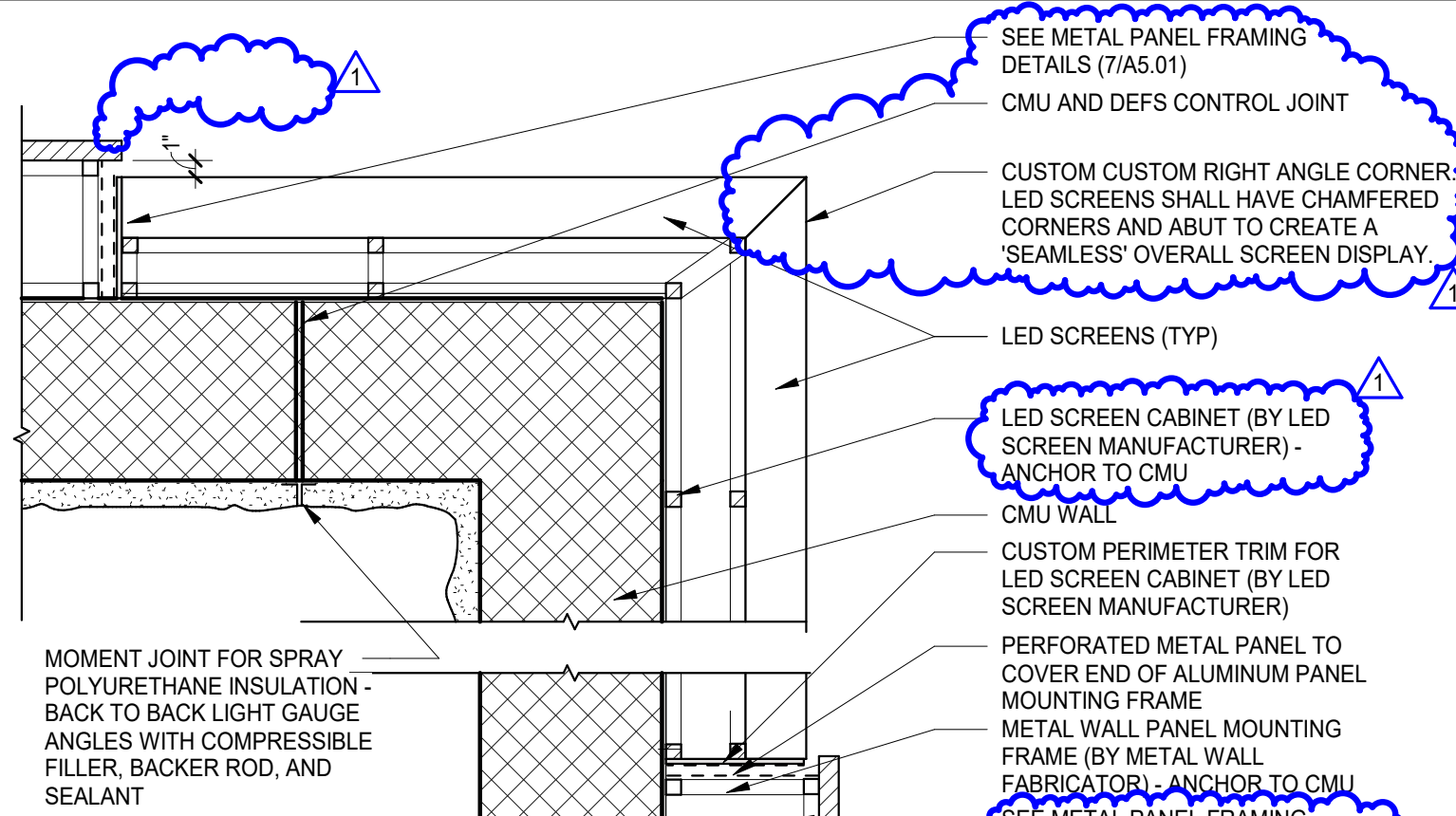
EXTERIOR WALL SECTIONS & DETAILS

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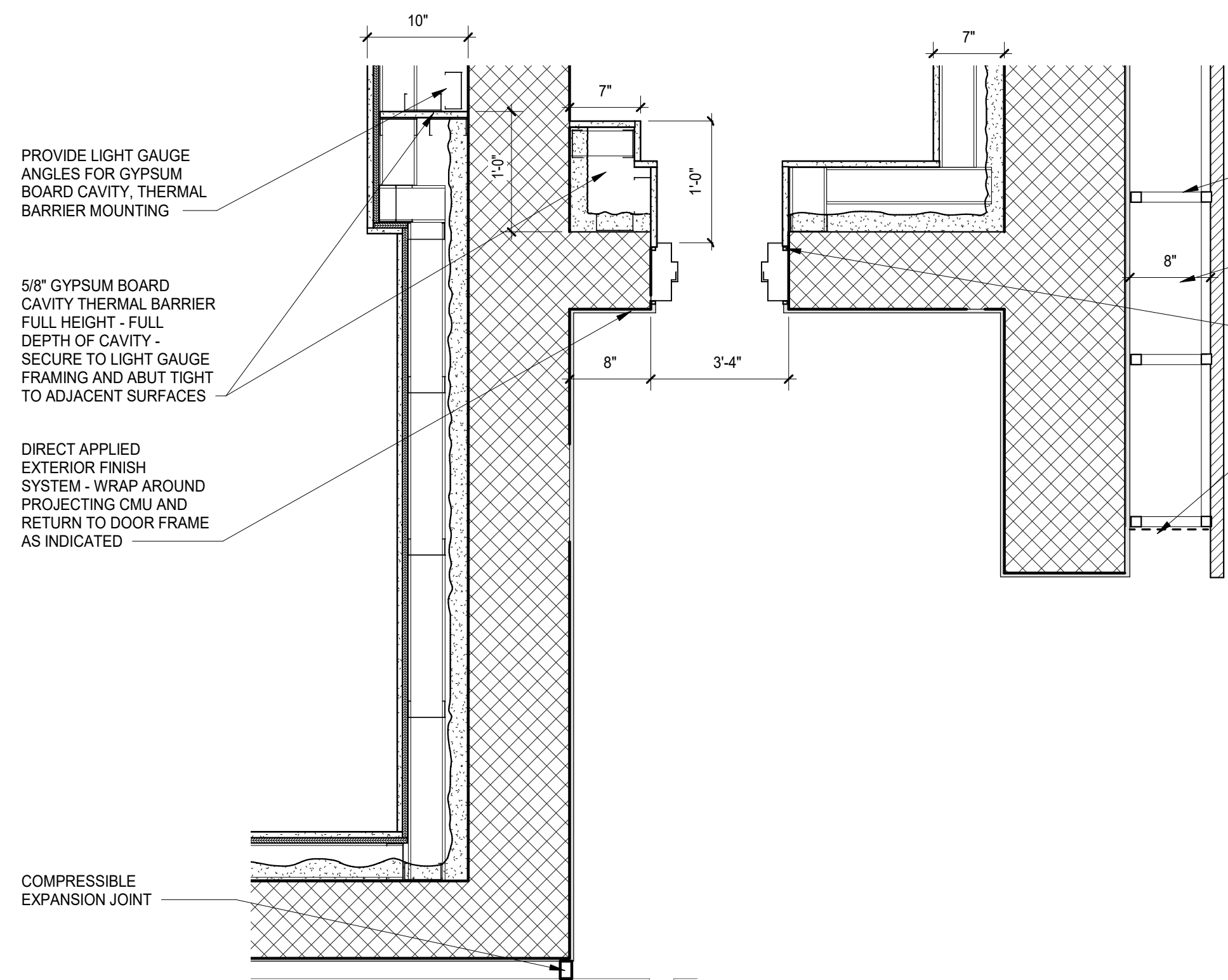
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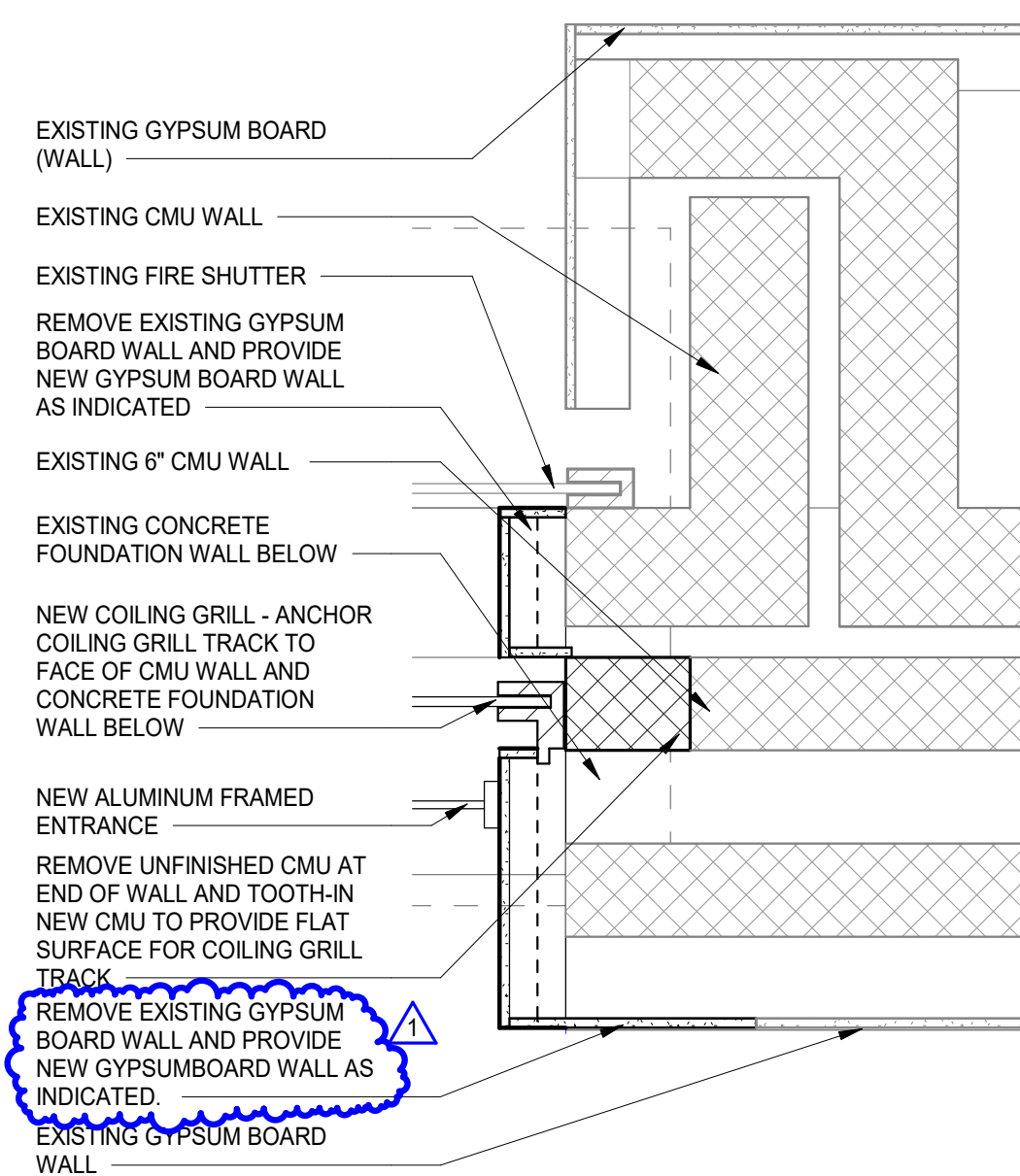
8 ENLARGED PLAN DETAIL @ EXISTING TO NEW TRANSITION I
SCALE: 1" = 1'-0"



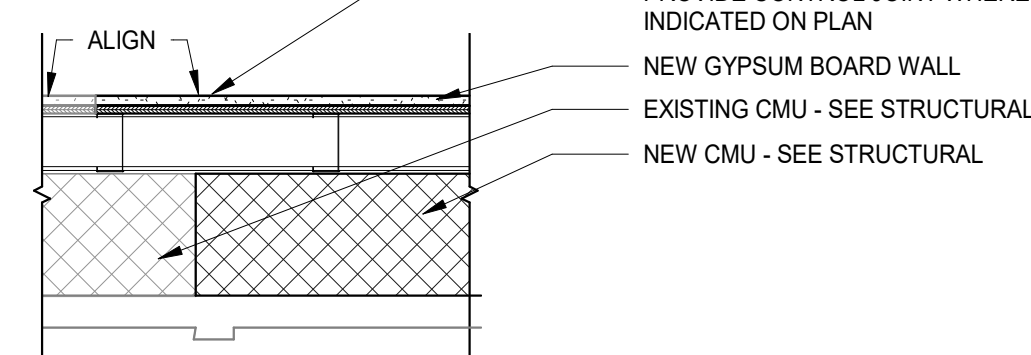
1 ENLARGED PLAN DETAIL @ DIGITAL DISPLAY PANELS
SCALE: 1" = 1'-0"



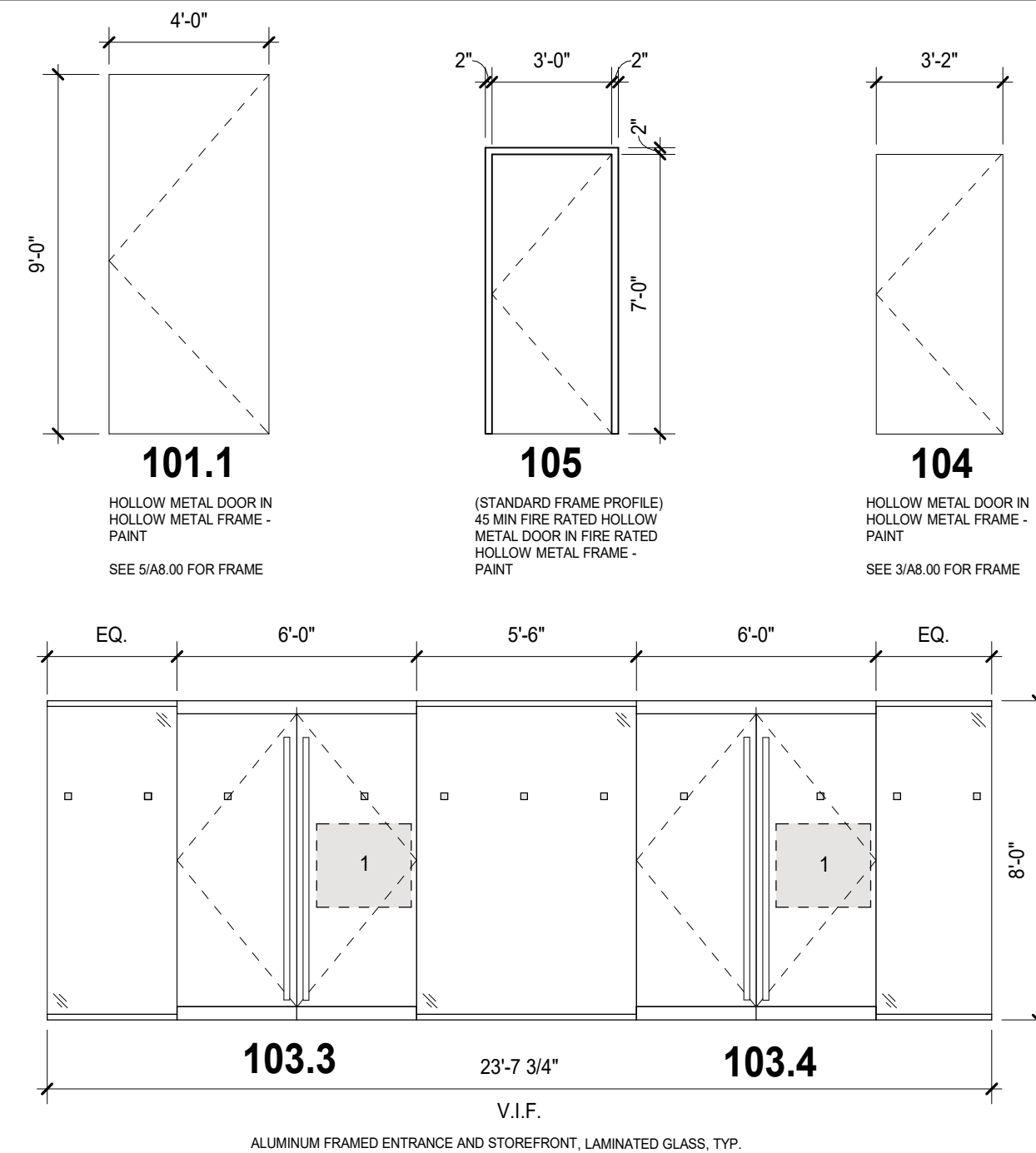
2 ENLARGED PLAN DETAIL @ EXTERIOR EGRESS STAIR DOOR
SCALE: 1" = 1'-0"



6 ENLARGED PLAN @ COILING GRILL
SCALE: 1" = 1'-0"

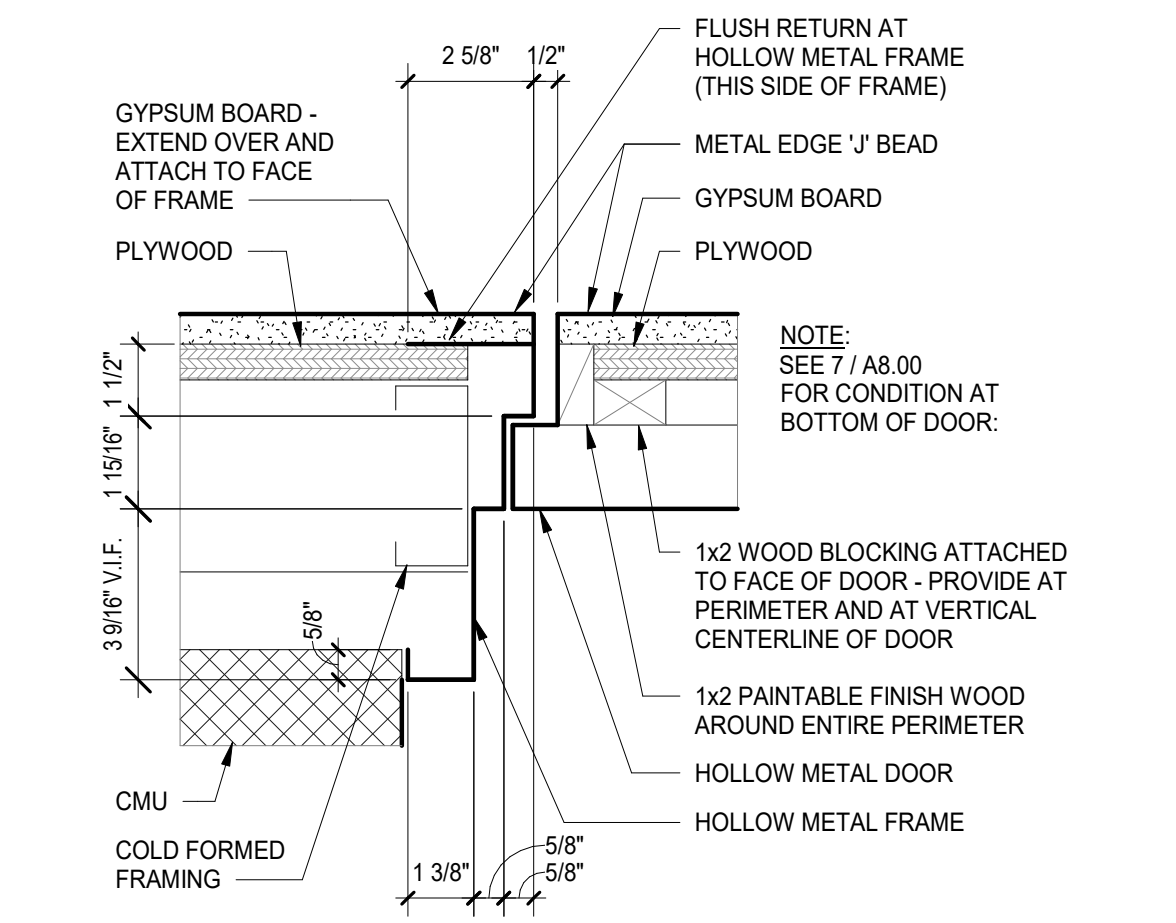


4 ENLARGED PLAN DETAIL @ EXISTING TO NEW TRANSITION II
SCALE: 1" = 1'-0"

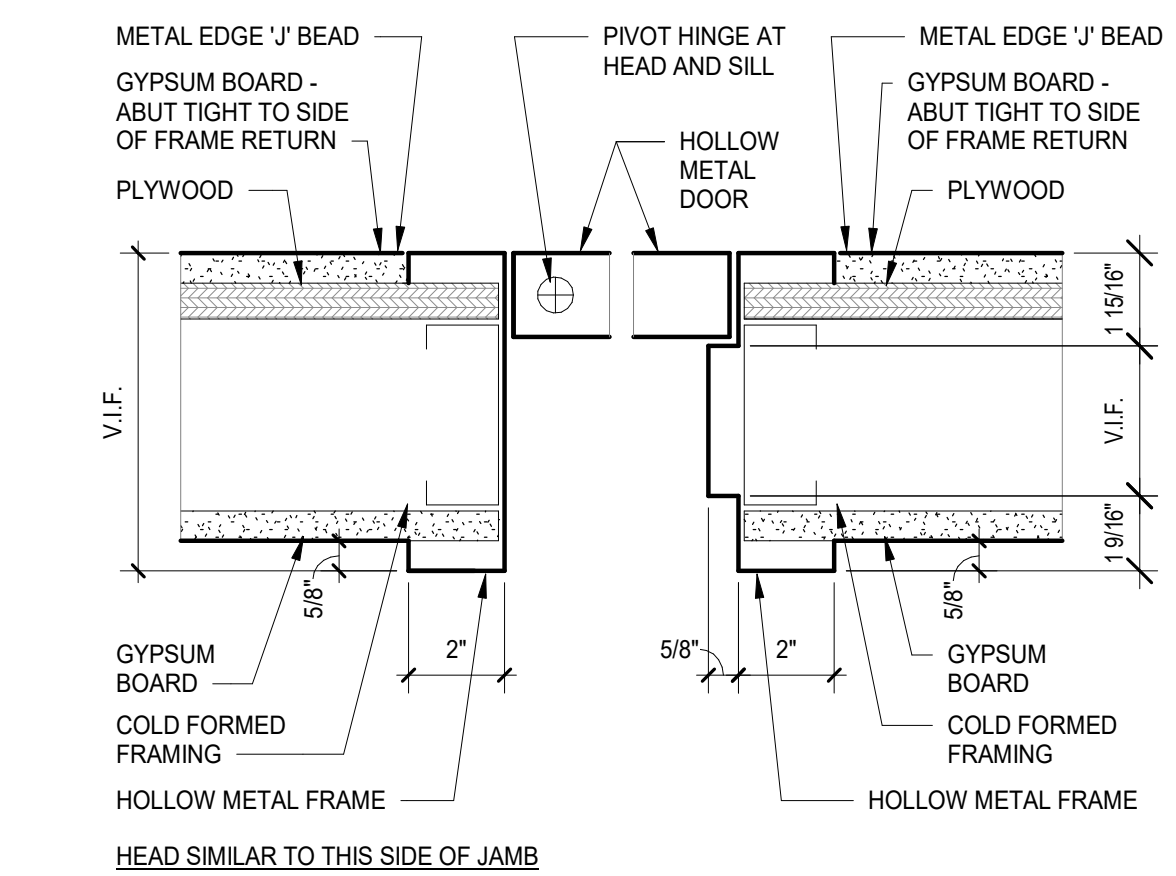


DOOR/FRAME/STOREFRONT ELEVATIONS

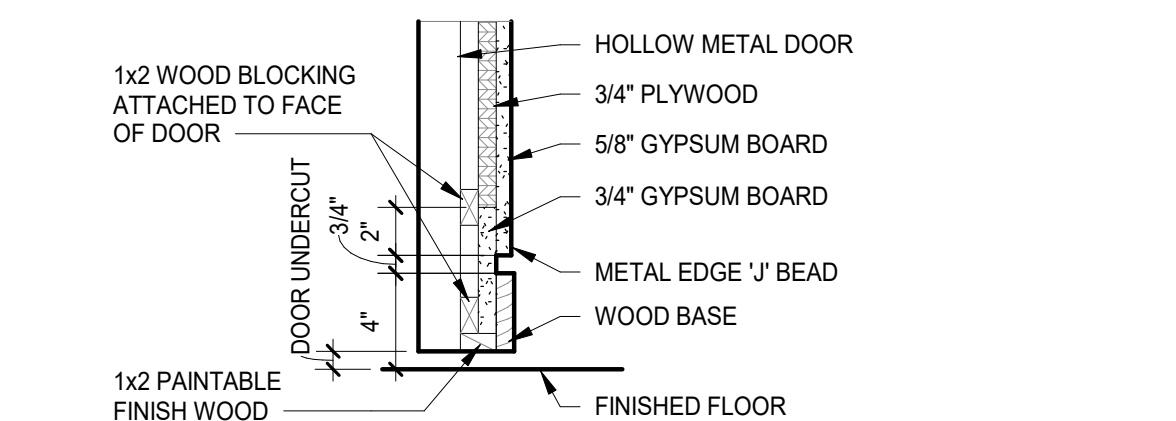
SCALE: 1/4" = 1'-0"



3 DOOR 104 FRAME
SCALE: 3" = 1'-0"



5 DOOR 101.1 FRAME
SCALE: 3" = 1'-0"

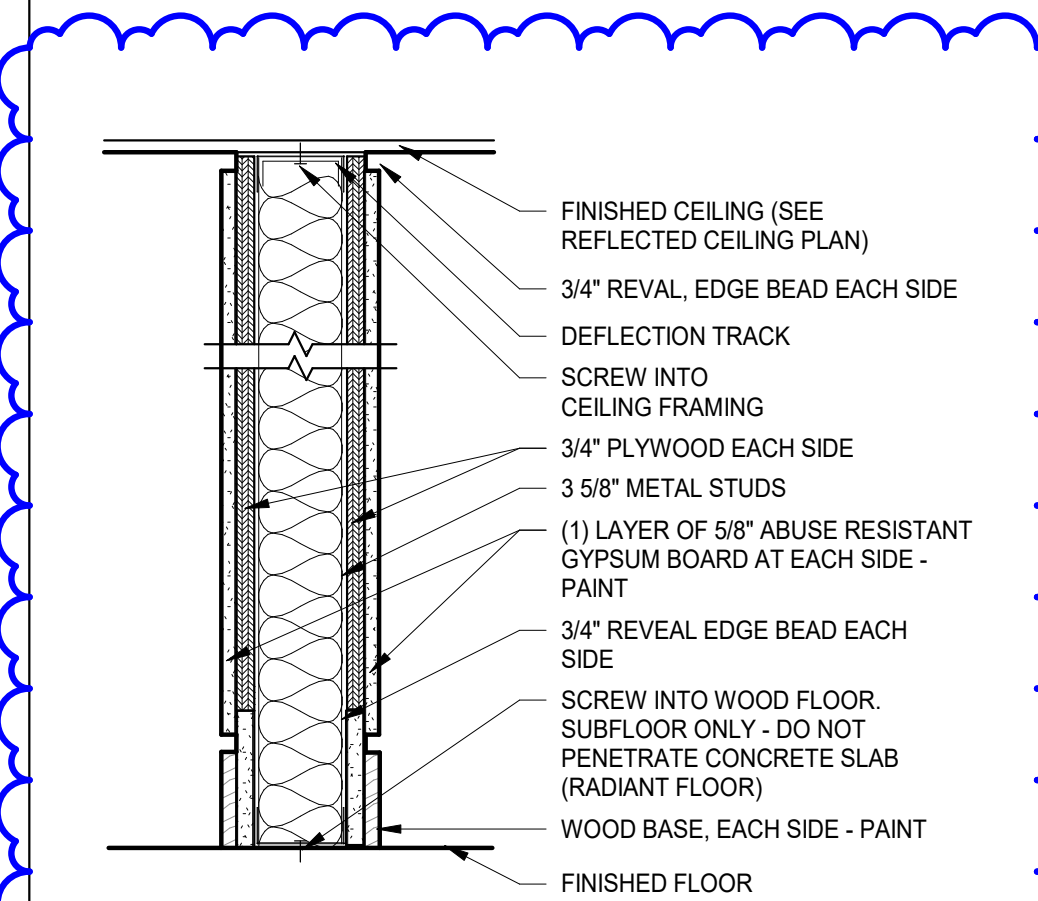
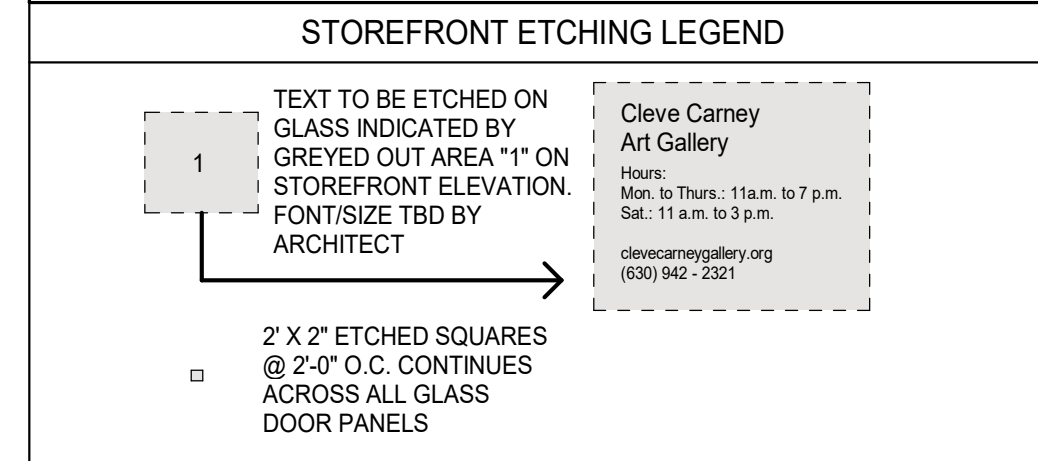


7 WALL BASE AT DOOR 104
SCALE: 1 1/2" = 1'-0"

- GENERAL NOTES**
- SEAL ALL OPENINGS, GAPS, PENETRATIONS, AND JOINTS IN PARTITION TYPES AS FOLLOWS.
 - FIRE RATED PARTITIONS AND SMOKE BARRIERS: SEAL IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE DIVISION 07 SPECIFICATION SECTIONS FOR PENETRATION FIRESTOP SYSTEMS AND FIRE RESISTIVE JOINT SYSTEMS. REFER TO CODE COMPLIANCE DRAWINGS FOR LOCATIONS OF SMOKE BARRIERS.
 - PARTITIONS DESIGNED TO RESIST THE PASSAGE OF SMOKE: SEAL COMPLETELY WITH ELASTOMERIC SEALANT. FOR THE LOCATION AND EXTENT REFER TO CODE COMPLIANCE DRAWINGS.
 - OTHER LOCATIONS: SEAL AS INDICATED AND REQUIRED ELSEWHERE BY THE CONTRACT DOCUMENTS.
 - OUTER LAYER OF ALL GWB PARTITIONS TO BE 5/8" ABUSE RESISTANT GWB, BOTH SIDES.
 - PROVIDE TILE BACKER BOARD IN LIEU OF GWB AT PARTITIONS RECEIVING WALL TIE.
 - PROVIDE MOISTURE RESISTANT GWB AT PARTITIONS ADJACENT TO PLUMBING AND / OR PLUMBING FIXTURES.

- PARTITION NOTES**
- PROVIDE FULL HEIGHT CORNER GUARD (GORDON FINAL FORMS I SERIES 901-SC-1250) AT ALL VERTICAL OUTSIDE CORNERS OF GYPSUM BOARD PARTITIONS, TAPE, SPACKLE, AND PAINT TO MATCH WALL.

- GENERAL NOTES**
- FIELD VERIFY ALL EXISTING DOOR FRAME OPENINGS TO RECEIVE NEW DOORS.
 - REFER TO THE PROJECT MANUAL FOR DOOR HARDWARE SPECIFICATIONS AND HARDWARE LISTS PER DOOR NUMBER.
 - UNLESS NOTED OTHERWISE, PROVIDE 1/4" TEMPERED SAFETY GLAZING AT NON-FIRE RATED DOORS, FIRE RATED SAFETY GLAZING AT FIRE RATED DOORS, AND 1" INSULATED GLAZING AT EXTERIOR DOORS.
 - ALL NEW EXTERIOR HOLLOW METAL DOORS AND FRAMES TO BE GALVANIZED. REFER TO SPECIFICATIONS.
 - CONTRACTOR TO PATCH STRIKE PLATE OPENINGS IN DOOR FRAMES AT REMOVED HARDWARE INCLUDING DEADBOLTS AND LOCKSETS.
 - REFER TO THE FLOOR PLANS FOR EXISTING STORAGE CABINETS TO RECEIVE NEW LOCK CYLINDERS MASTER-KEYED TO THE NEW SYSTEM. THESE CABINETS ARE DESIGNATED BY THE ASSOCIATED FLOOR PLAN KEY NOTE ON THE SHEET.

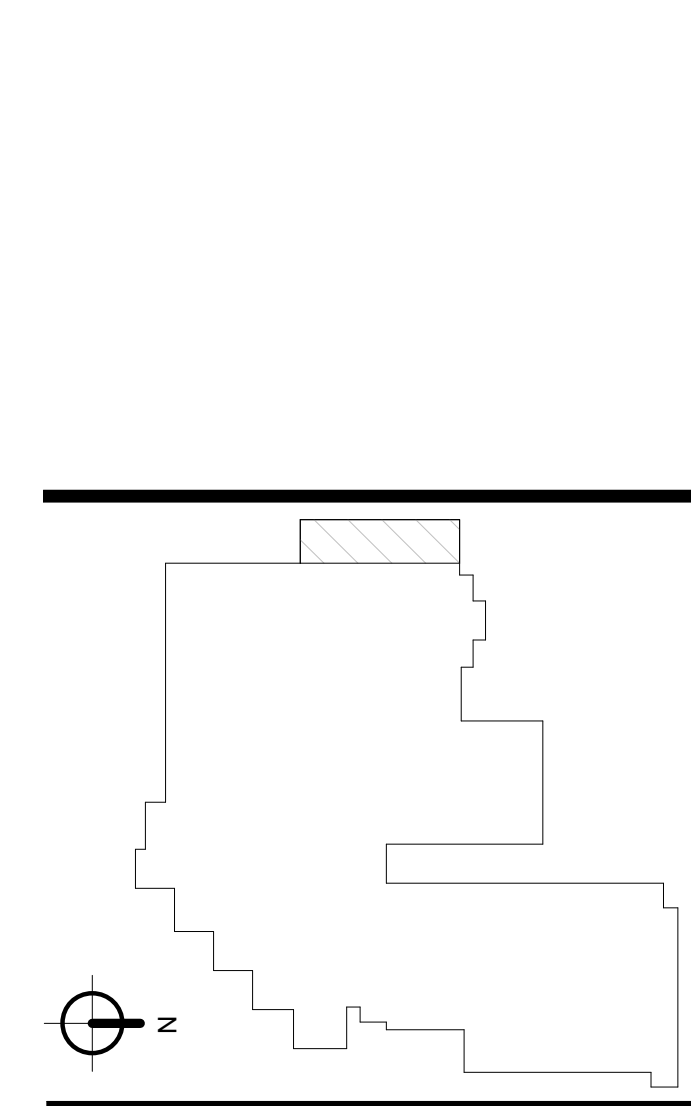


10 A1 WALL PARTITION
SCALE: 1 1/2" = 1'-0"



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1	ADDENDUM 1	07.01.2019
	ISSUED FOR BID AND PERMIT	06.18.2019
REV	DESCRIPTION	DATE

CLEVE CARNEY GALLERY EXPANSION

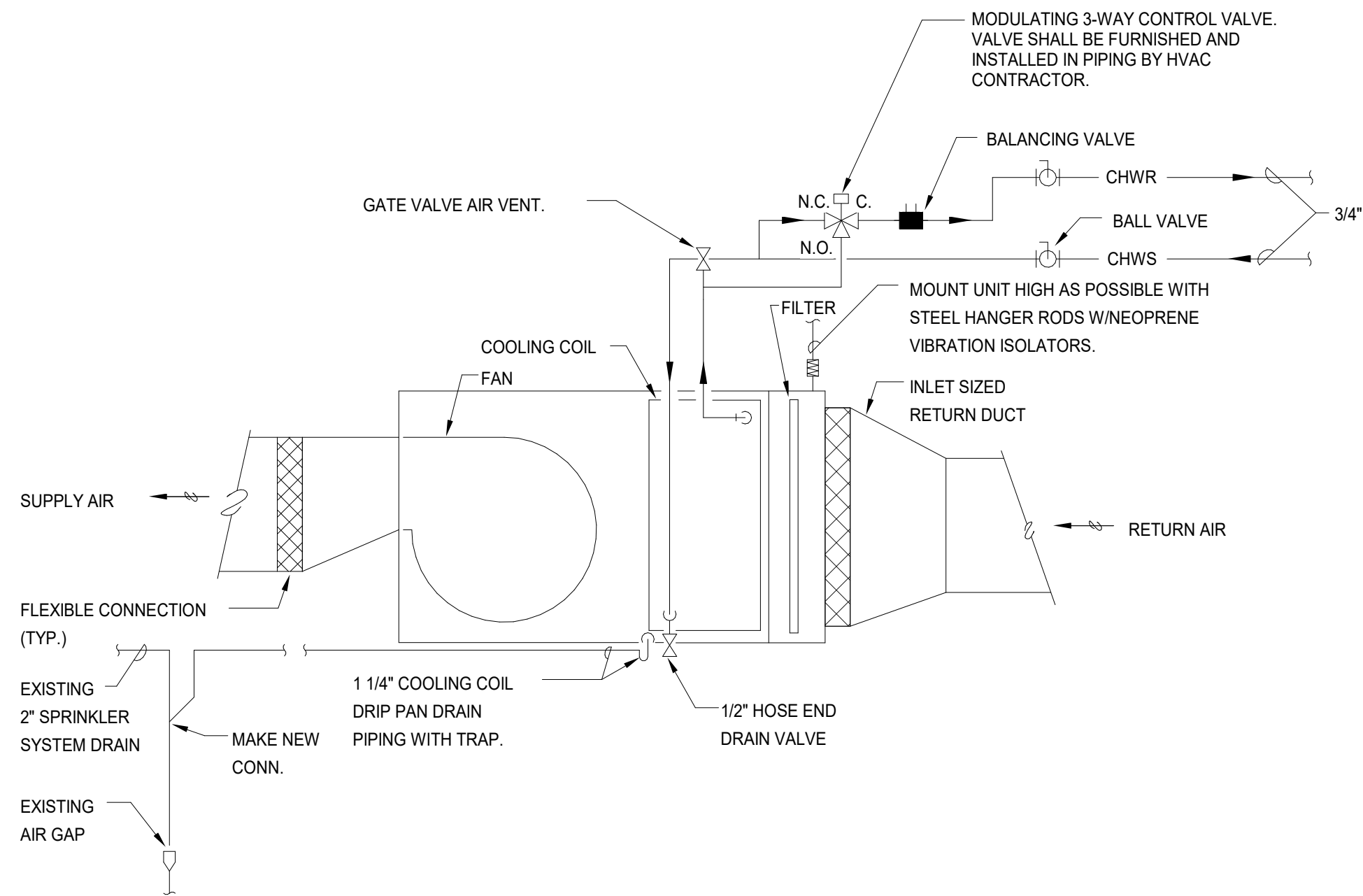
COLLEGE OF DUPAGE
McANINCH ARTS CENTER
425 FAWELL BLVD
GLEN ELLYN, IL 60137

PARTITION TYPES, DOORS, & PLAN DETAILS

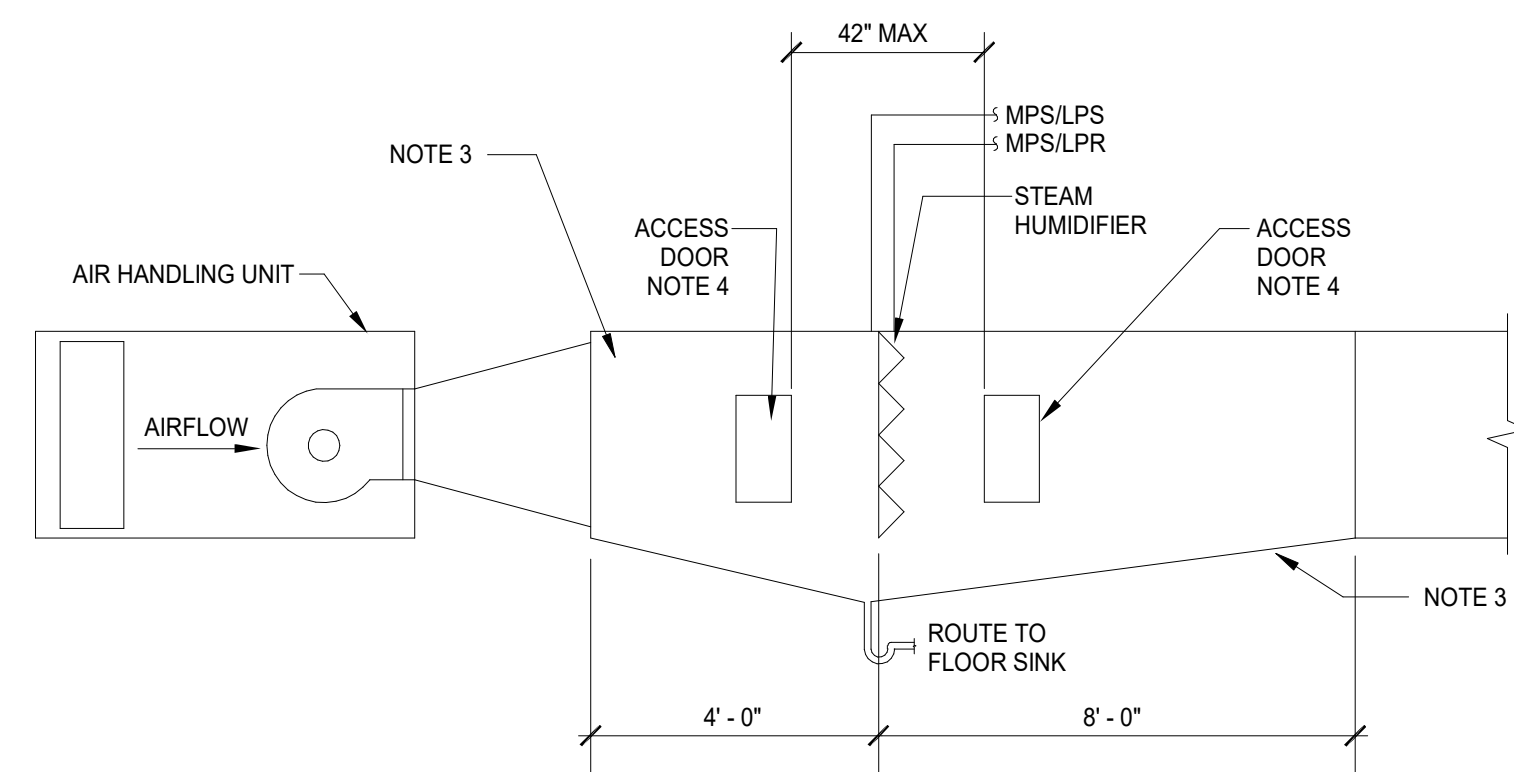
Project Number:
190051
Drawn By:
C.C.
Sheet:

A8.00

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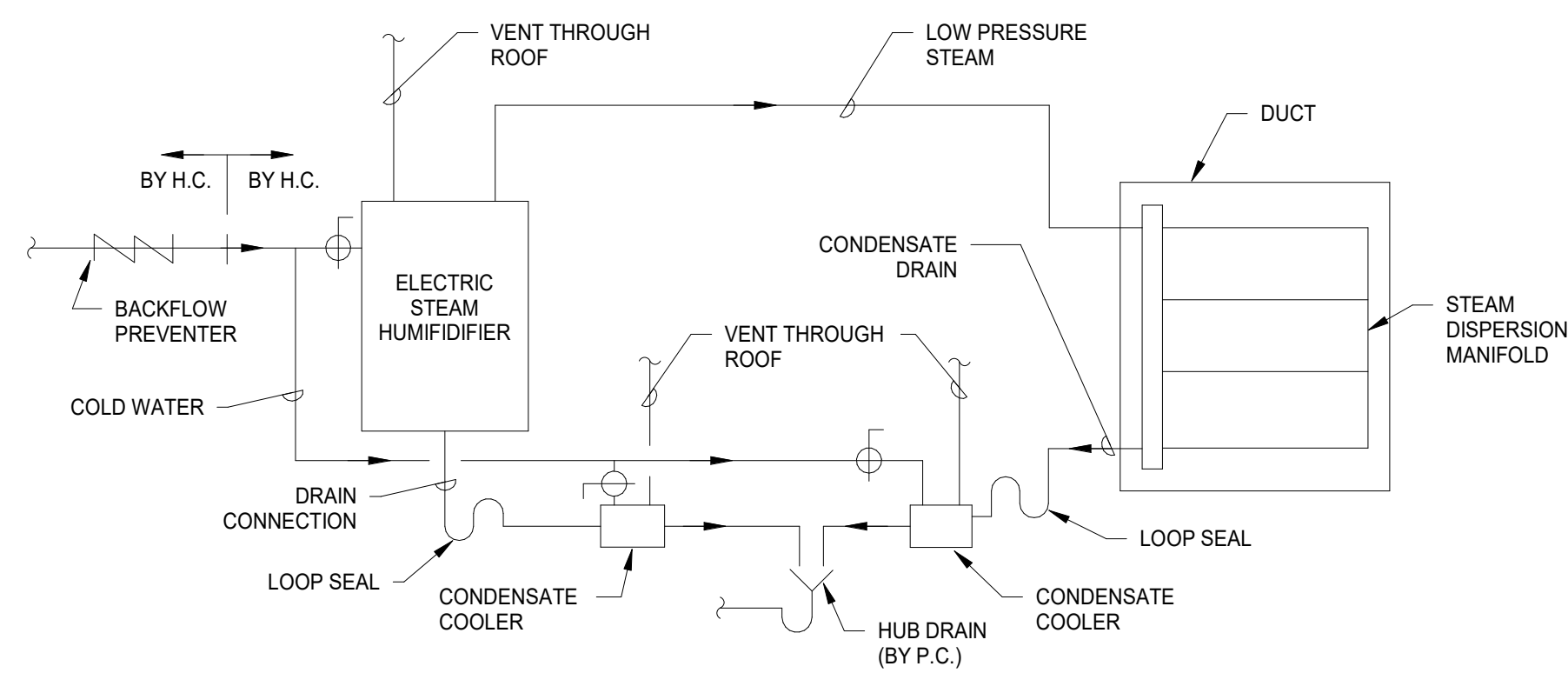


6 FAN COIL UNIT FCU-1 INSTALLATION DETAIL
N.T.S.

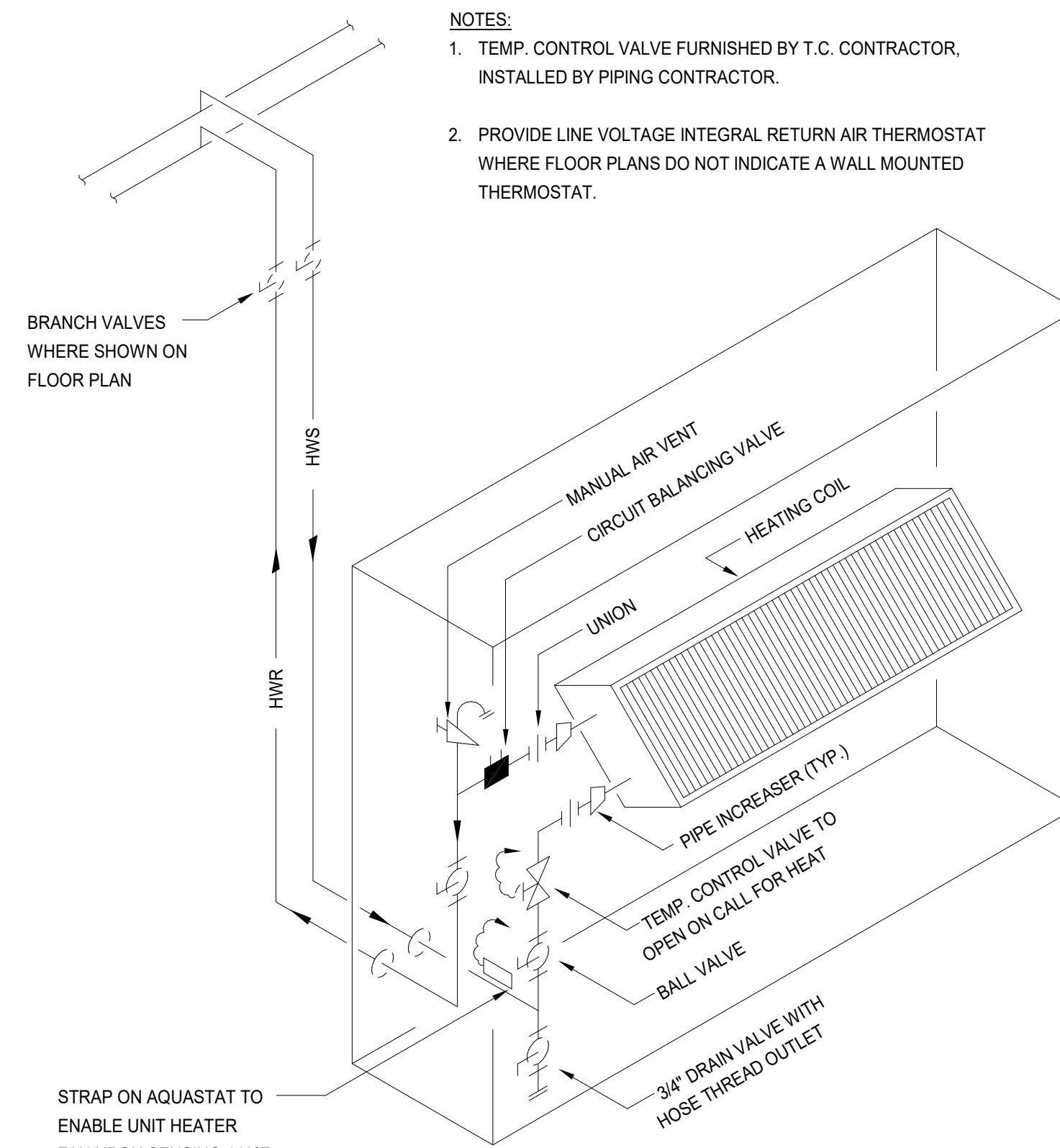


- NOTES**
1. TRANSITION WELDED STAINLESS STEEL 4" UPSTREAM OF HUMIDIFIER AND 8" DOWNSTREAM OF HUMIDIFIER. DETAIL ONLY APPLICABLE TO AHU'S WITHOUT AFTER FILTER DOWNSTREAM OF THE SUPPLY AIR FAN.
 2. INTEGRAL STAINLESS STEEL DRAIN PAN SLOPE FROM ALL DIRECTIONS TO DRAIN CONNECTION. SLOPE 125° PER 1'-0".
 3. PROVIDE MIN. 18" WIDE ACCESS DOOR, DIRECTLY UPSTREAM AND DOWNSTREAM OF HUMIDIFIER.

7 DUCT MOUNTED HUMIDIFIER DETAIL
N.T.S.



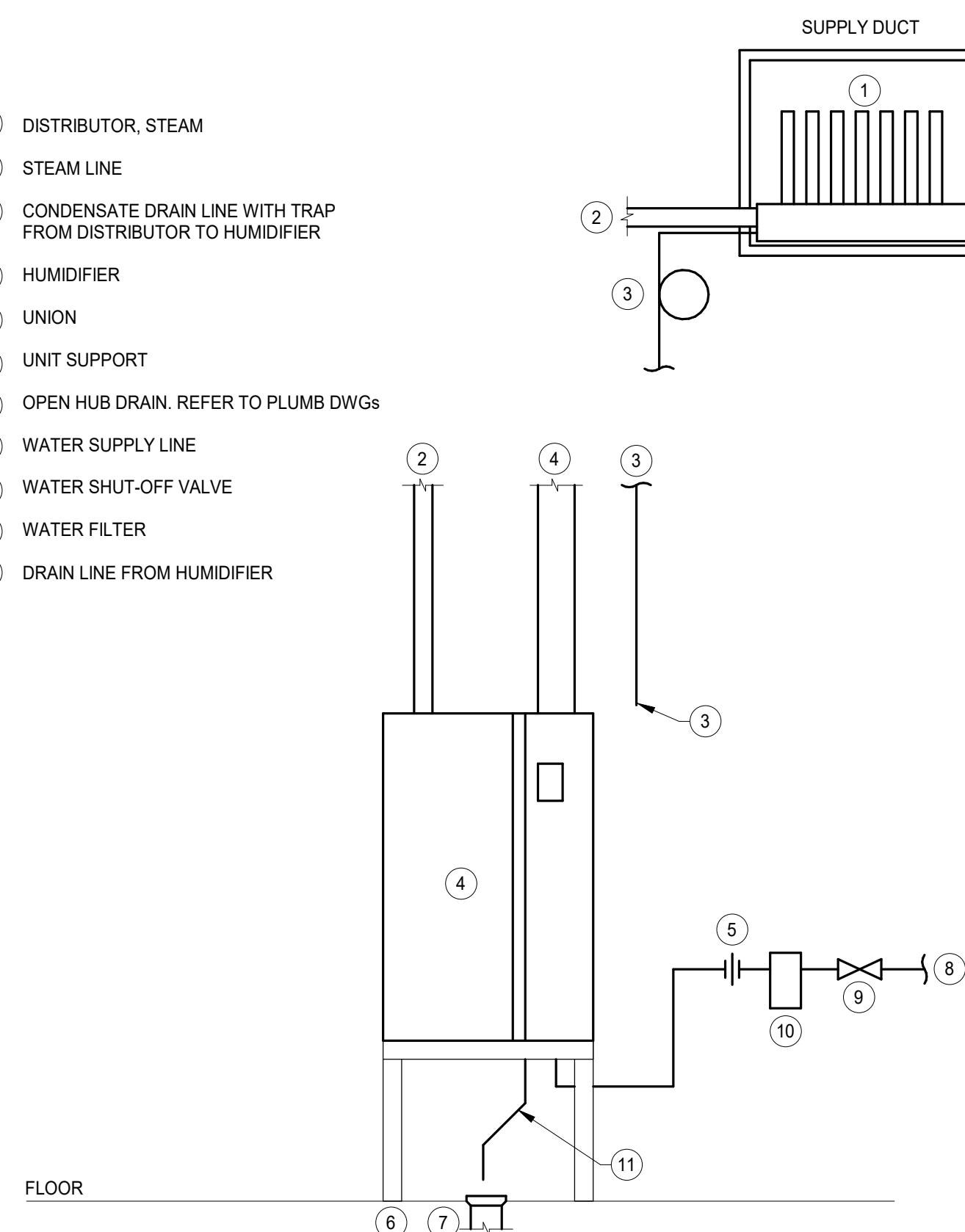
8 ELECTRIC STEAM HUMIDIFIER
N.T.S.



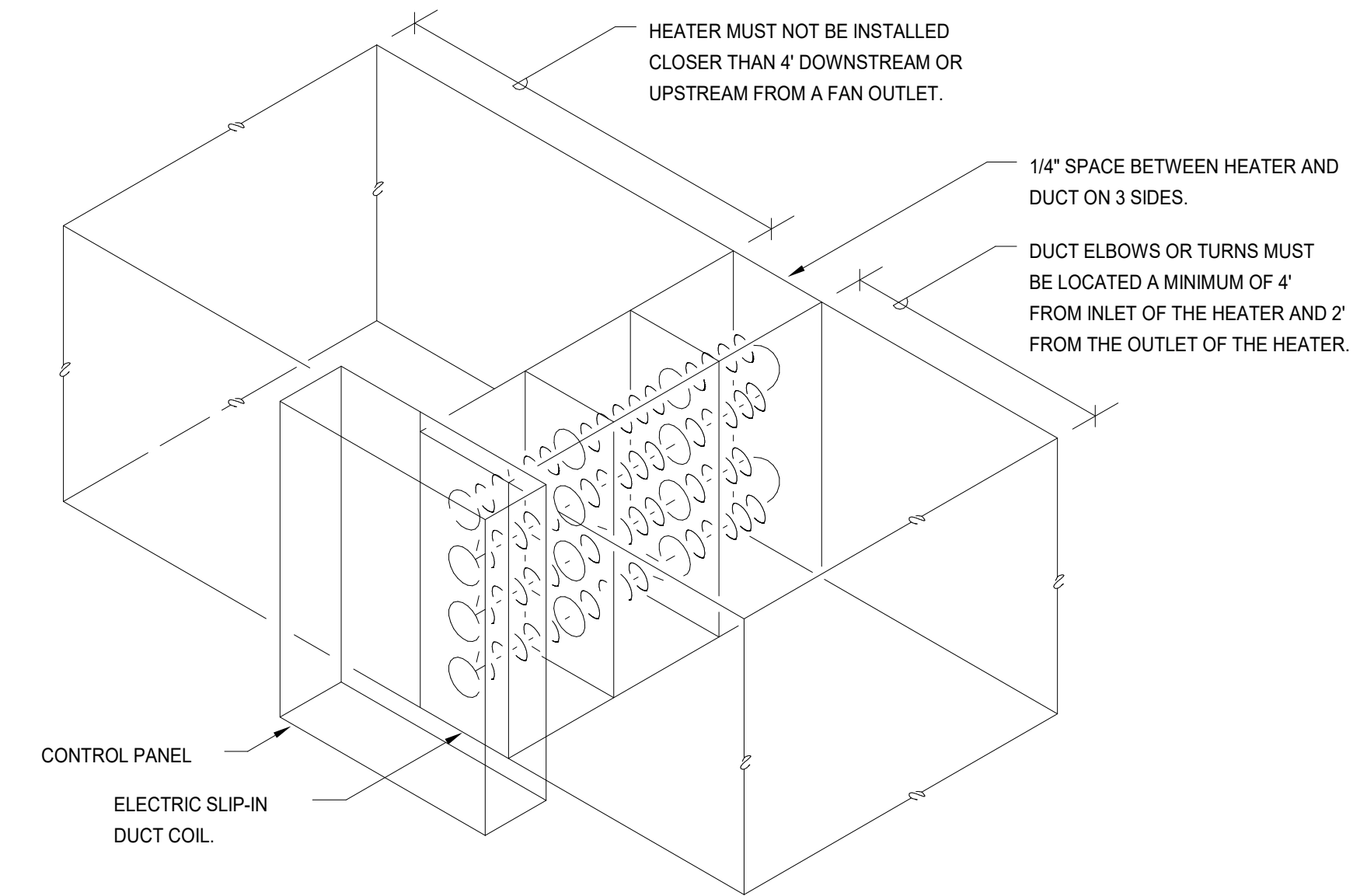
- NOTES**
1. TEMP. CONTROL VALVE FURNISHED BY T.C. CONTRACTOR, INSTALLED BY PIPING CONTRACTOR.
 2. PROVIDE LINE VOLTAGE INTEGRAL RETURN AIR THERMOSTAT WHERE FLOOR PLANS DO NOT INDICATE A WALL MOUNTED THERMOSTAT.

4 CABINET UNIT HEATER PIPING DETAIL
N.T.S.

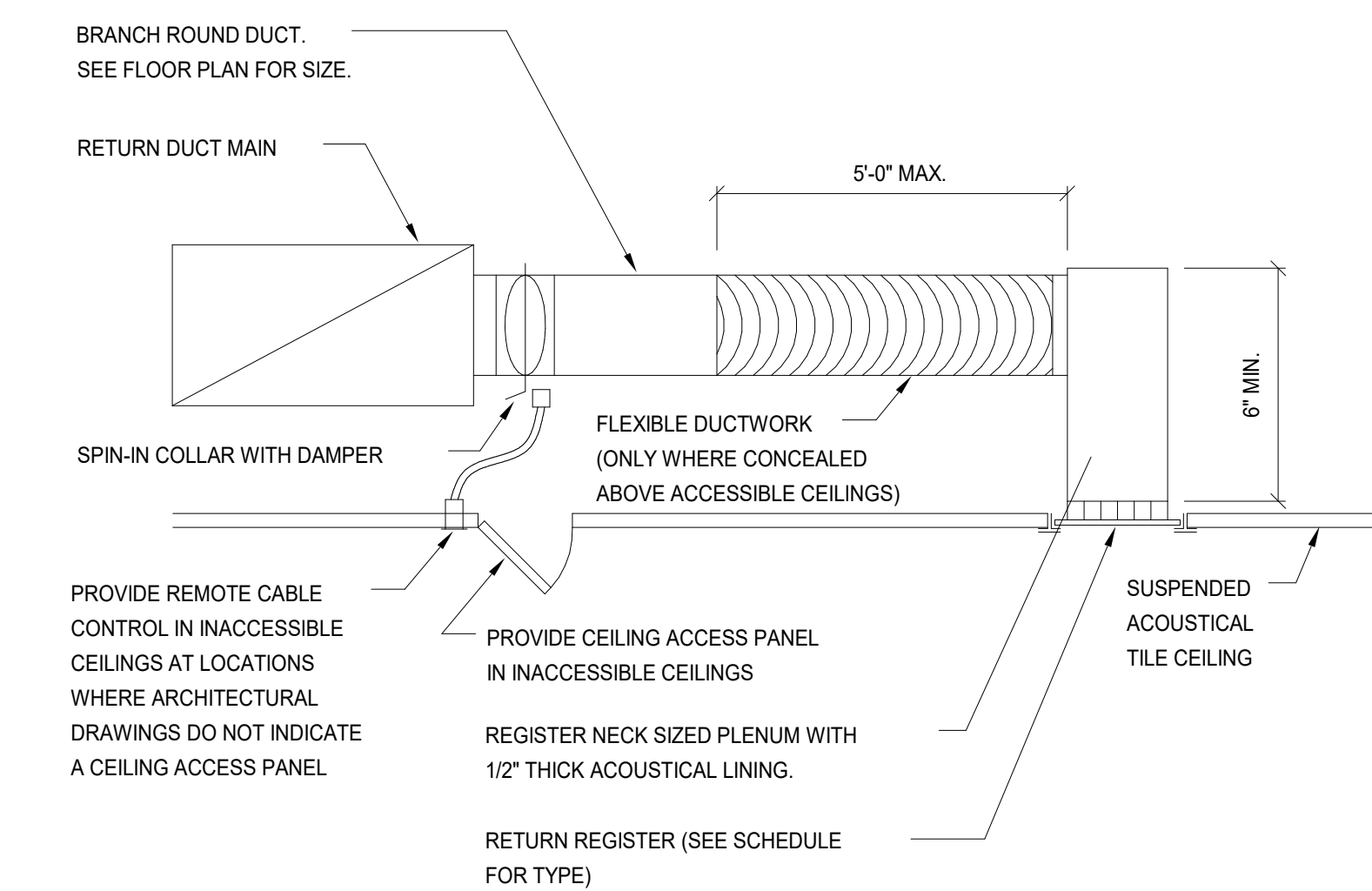
- 1 DISTRIBUTOR, STEAM
- 2 STEAM LINE
- 3 CONDENSATE DRAIN LINE WITH TRAP FROM DISTRIBUTOR TO HUMIDIFIER
- 4 HUMIDIFIER
- 5 UNION
- 6 UNIT SUPPORT
- 7 OPEN HUB DRAIN. REFER TO PLUMB DWGS
- 8 WATER SUPPLY LINE
- 9 WATER SHUT-OFF VALVE
- 10 WATER FILTER
- 11 DRAIN LINE FROM HUMIDIFIER



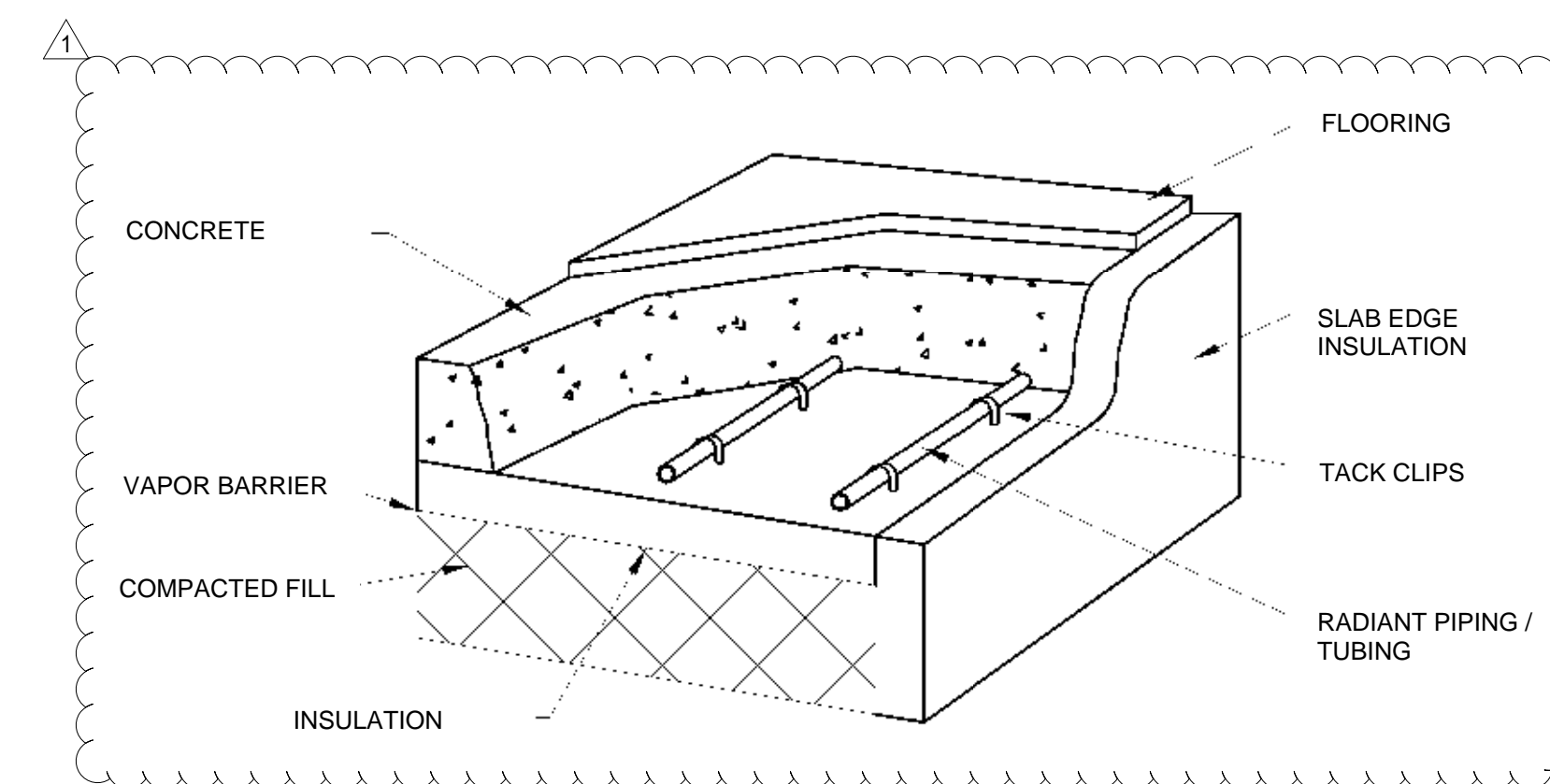
5 HUMIDIFIER DETAIL
N.T.S.



1 ELECTRIC DUCT COIL DETAIL
N.T.S.



2 RETURN/EXHAUST REGISTER INSTALLATION DETAIL
N.T.S.



3 HOT WATER RADIANT FLOOR PIPE INSTALLATION DETAIL
N.T.S.



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REV	DESCRIPTION	DATE
1	ADDENDUM 1	07.01.2019
	ISSUED FOR BID AND PERMIT	06.18.2019

CLEVE CARNEY GALLERY EXPANSION

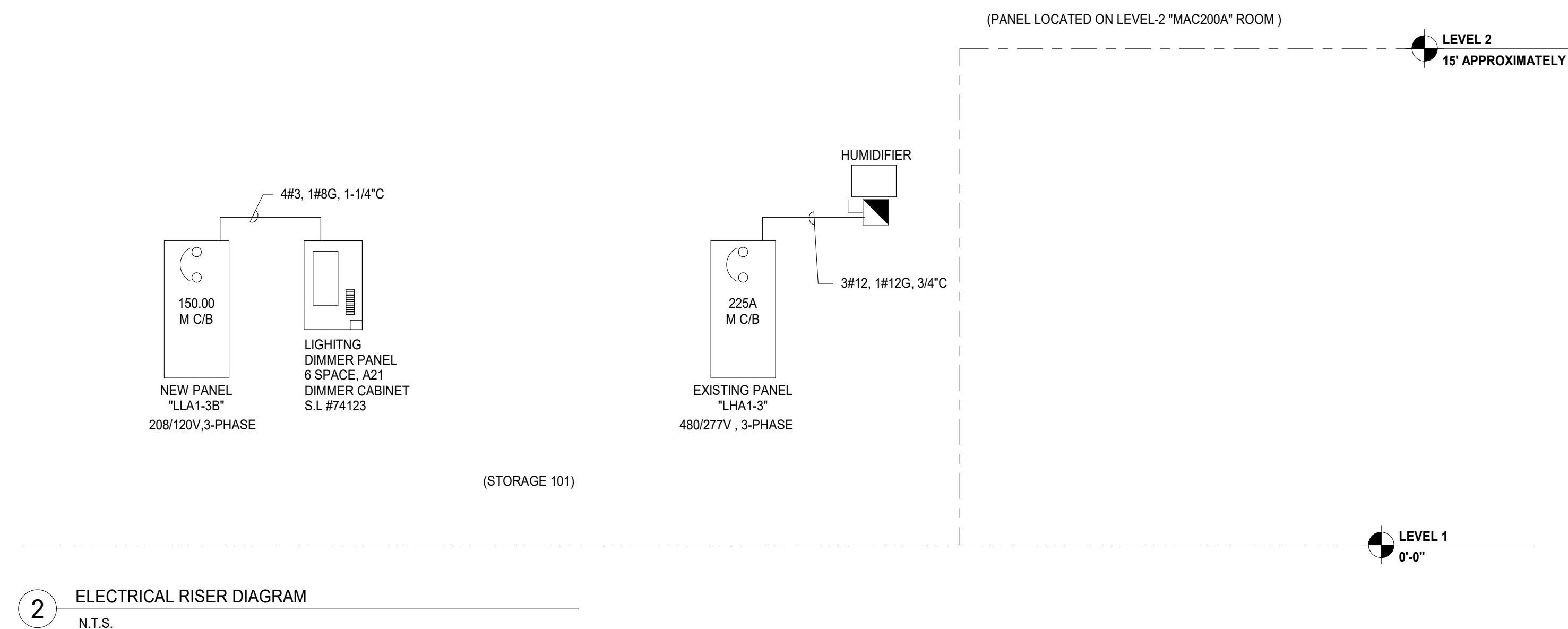
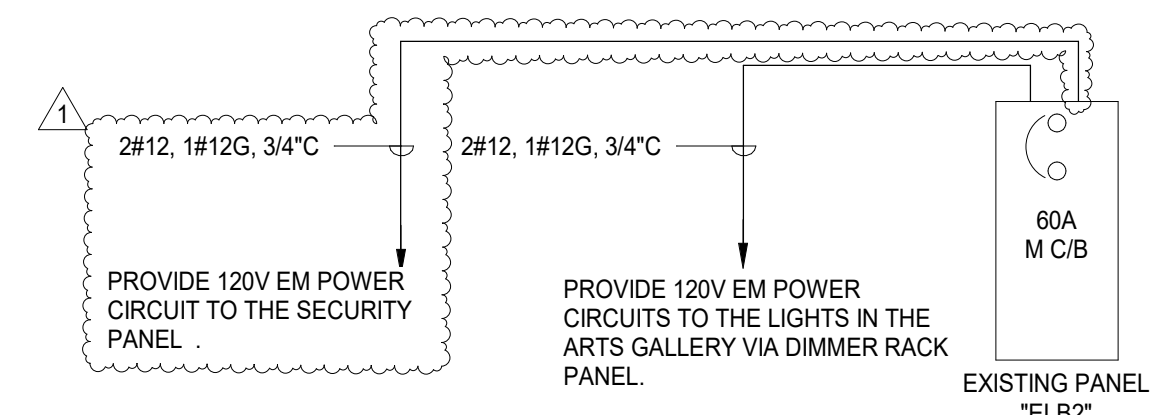
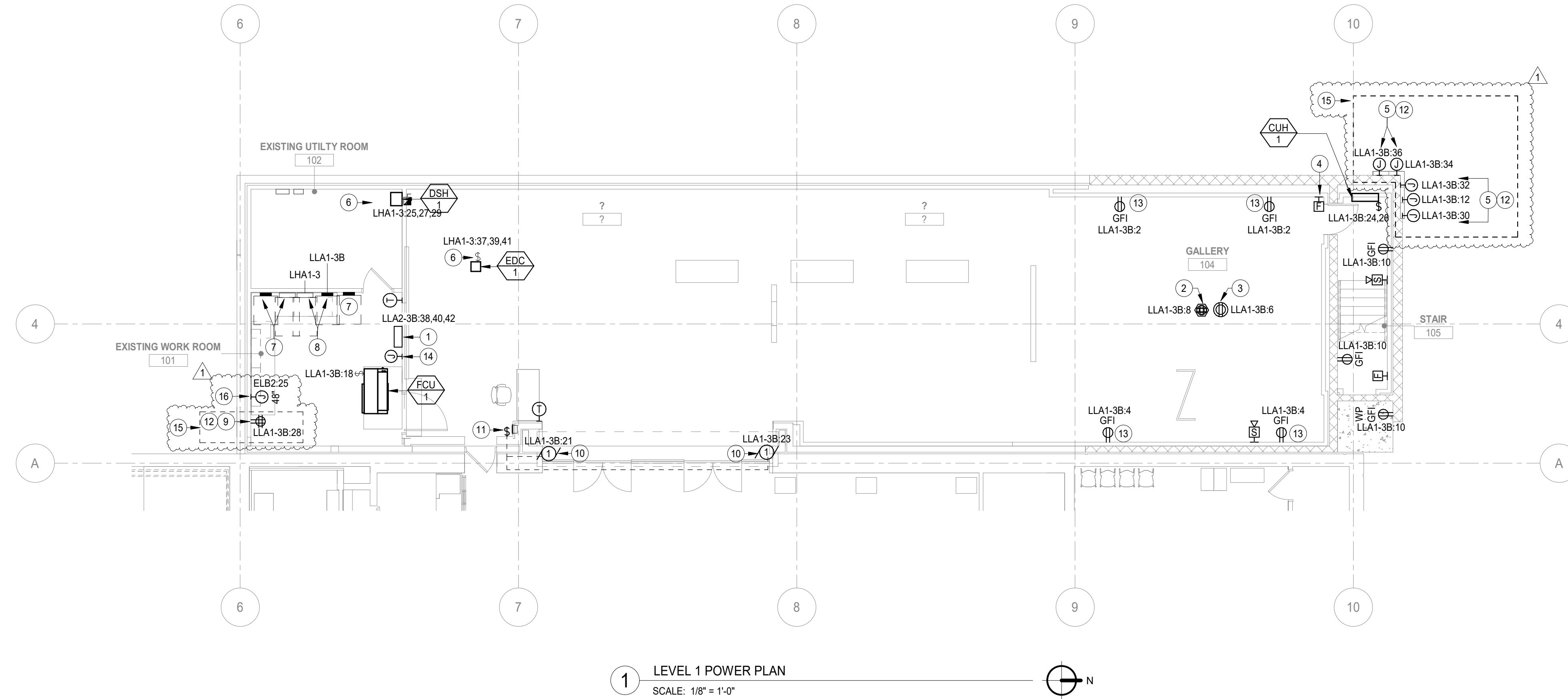
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 425 FAWELL BLVD
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MECHANICAL DETAILS

Project Number:
 190051
 Drawn By:
 E. PUENTE
 Sheet:

M6.01

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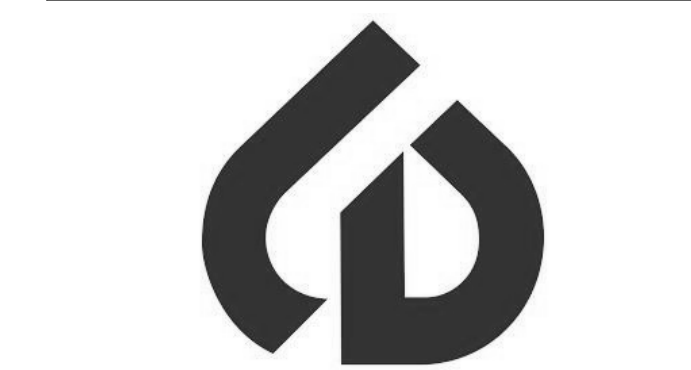


ELECTRICAL POWER PLAN GENERAL NOTES

- THESE NOTES APPLICABLE TO ALL POWER PLANS
- THE MINIMUM WIRE SIZE SHALL BE #12 AWG EXCEPT FOR SHARED NEUTRAL CONDUCTORS WHICH THE MINIMUM SIZE SHALL BE #10 AWG. THE MINIMUM CONDUIT SIZE FOR HOMERUNS AND BRANCH FEEDS TO POWER OUTLETS SHALL BE 3/4" 1/2" CONDUIT IS ACCEPTABLE FOR BRANCH WIRING TO END OF THE LINE RECEPTACLES ONLY.
- ALL POWER BRANCH CIRCUITS SHALL TERMINATE AT 20A/1-POLE CIRCUIT BREAKERS IN PANELBOARD INDICATED UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL PROVIDE ALL PENETRATIONS, SLEEVES, AND SEALANT AS REQUIRED THROUGH PARTITIONS TO ACCOMMODATE THE FIRE ALARM, PAGING, SECURITY, AUDIO/VISUAL, VOICE, AND DATA CABLING. ANY PENETRATIONS THROUGH WALLS AND FLOORS SHALL BE PROPERLY SEALED AND TREATED TO MAINTAIN THE FIRE STOPPING RATING OF THE WALLS, FLOORS, AND CEILING.
- BACKBOXES ARE TO BE MOUNTED OFFSET, NOT BACK TO BACK.
- CIRCUIT NUMBER(S), WHERE SHOWN, ARE TO INDICATE QUANTITY OF CIRCUITS REQUIRED. VERIFY EXACT CIRCUIT NUMBER TO BE UTILIZED IN FIELD. CONTRACTOR SHALL PROVIDE ACTUAL CIRCUITING AS PART OF "AS BUILT" DRAWINGS.
- UNLESS INDICATED OTHERWISE, ALL MATERIALS REQUIRED TO PROVIDE BRANCH CIRCUITS AND FEEDERS ARE TO BE NEW.
- REFER TO MECHANICAL AND PLUMBING SHEETS FOR ADDITIONAL EQUIPMENT INFORMATION.
- ANY ELECTRICAL DEVICES ON NEW WALLS SHALL BE FLUSH MOUNTED. NO WIREMOLDS ARE ACCEPTABLE ON NEW WALLS UNLESS NOTED OTHERWISE.
- VERIFY RECEPTACLE LOCATIONS WITH ARCHITECTURAL FURNITURE LAYOUT TO ENSURE PROPER ACCESSIBILITY.
- LOW VOLTAGE WIRING SHALL NOT LIE ON TOP OF CEILING GRID SYSTEM. WIRING SHALL BE SUPPORTED AT INTERVALS NOT EXCEEDING 5 FEET BY UTILIZING J-HOOKS SUPPORTED BY STRUCTURAL MEMBERS. WIRING SHALL BE ROUTED PARALLEL OR PERPENDICULAR TO STRUCTURAL MEMBERS.
- PROVIDE PULL BOX(ES) BETWEEN PULL POINTS AS REQUIRED TO COMPLY WITH NEC 344.26 SUCH THAT THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREE TOTAL) BETWEEN PULL POINTS.
- SPECIAL ATTENTION SHALL BE PAID TO ALL CONDUIT ROUTING IN OPEN CEILING SPACE FOR AESTHETIC PURPOSES. ALL EXPOSED CONDUITS SHALL BE ROUTED PERPENDICULAR AND PARALLEL TO BUILDING LINES AND TIGHT TO CEILING/STRUCTURAL CORNERS. WHERE THIS IS NOT FEASIBLE, SUBMIT CONDUIT ROUTING PLAN TO ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
- CONTRACTOR SHALL PROVIDE COMMON DISCONNECTING MEANS FOR BRANCH CIRCUITS UTILIZING SHARED NEUTRALS PER ARTICLE 210.4(B). HANDLE TIES ARE ACCEPTABLE WHEN BREAKERS ARE "SLASH RATED" FOR THE HIGHER SYSTEM VOLTAGE RATING OF THE SYSTEM. WHEN HANDLE TIES ARE NOT POSSIBLE DUE TO NON-ADJACENT BREAKERS, PROVIDE A DEDICATED NEUTRAL FOR EACH UNGROUNDED CONDUCTOR.

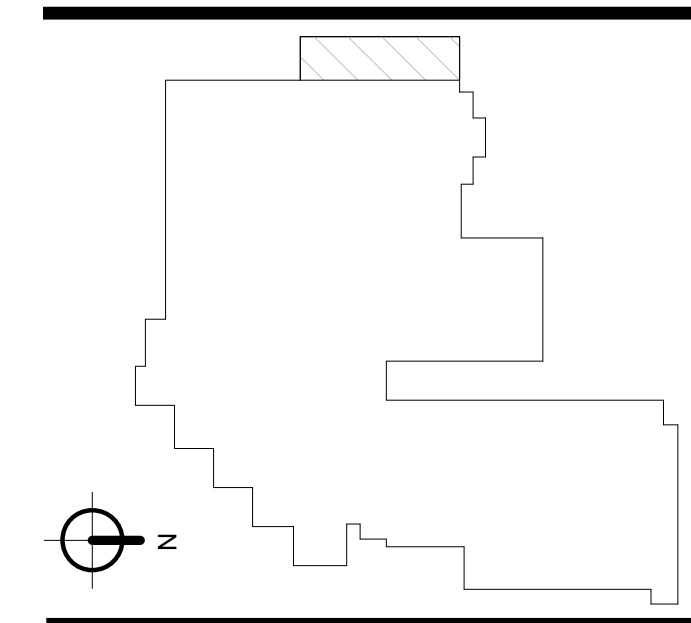
KEYNOTES

- NEW LIGHTING DIMMER RACK PANEL.
- FOURPLEX FLOOR BOX LEGRAND MAKE 880W SERIES WITH TWO GANG FLANGE AND BRUSHED ALUMINUM COVER PLATE PER ARCHITECTS SELECTION TO MATCH EXISTING.
- CEILING MOUNTED DUPLEX RECEPTACLE.
- NEW LOCATION OF THE EXISTING RELOCATED FIRE ALARM PULL STATION, INTERCEPT AND EXTEND EXISTING CABLES AND CONDUIT AS REQUIRED.
- POWER FOR THE EXTERIOR LED SCREENS, COORDINATE WITH ARCHITECTURAL DRAWINGS FOR EXACT LOCATION, COORDINATE WITH MANUFACTURER FOR ROUGH IN REQUIREMENTS FOR THE BACK BOX AND POWER. LOW VOLTAGE REQUIREMENTS, AND ADDITIONAL SCOPE OF WORK PRIOR TO START.
- COORDINATE WITH HVAC CONTRACTOR AND MANUFACTURER FOR EXACT POWER REQUIREMENTS FOR THE UNIT PRIOR TO START.
- EXISTING PANEL TO REMAIN.
- EXISTING PANEL TO REMAIN AND REUSED TO POWER NEW LOADS PER PLANS, PANELSCHEDULE, AND RISER DIAGRAMS.
- POWER FOR EXTERIOR SCREENS CONTROLLER, COORDINATE THE EXACT LOCATION IN THE FIELD PRIOR TO START.
- POWER FOR COILING DOOR, PROVIDE CONTROLS AND ADDITIONAL WIRING BETWEEN CONTROL SWITCH AND MOTOR PER MANUFACTURER REQUIREMENTS.
- LOCATION OF COILING DOOR CONTROL, COORDINATE EXACT LOCATION WITH THE ARCHITECT AND THE OWNER PRIOR TO START. PROVIDE AND INSTALL PER ARCHITECTS REQUIREMENTS.
- PROVIDE (6) FIVE CAT-6 TYPE CABLES FROM THE EXTERIOR SCREENS TO THE CONTROLLER IN THE EXISTING STORAGE. COORDINATE WITH THE MANUFACTURER TO ADDITIONAL REQUIREMENTS AND SCOPE OF WORK.
- LOCATE THE NEW RECEPTACLES AT THE WALL BASE ELEVATION TO MATCH EXISTING.
- PROVIDE AND INSTALL LIGHTING CONTROL PROGRAMMING STATION PER MANUFACTURER REQUIREMENTS.
- EXTERIOR SCREEN IS PART OF ALTERNATE BID.
- POWER FOR SECURITY PANELS, COORDINATE WITH THE SECURITY CONSULTANT/MANUFACTURER FOR EXACT LOCATION OF THE CONNECTION AND OTHER REQUIREMENTS PRIOR TO START. COORDINATE WITH THE SECURITY CONSULTANT DRAWINGS FOR FIRE ALARM INTERCONNECTION AND ROUGH IN REQUIREMENTS PRIOR TO START.



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REV	DESCRIPTION	DATE
1	ADDENDUM#1	07.02.2019
	ISSUED FOR BID AND PERMIT	06.18.2019
	95% BID DOCUMENTS	06.11.2019
	50% CD REVIEW SET	05.24.2019
	SCOPE REVIEW	03.28.2019

CLEVE CARNEY GALLERY EXPANSION

COLLEGE OF DUPAGE
McANINCH ARTS CENTER
425 FAWELL BLVD
GLEN ELLYN, IL 60137

LEVEL 1 POWER PLAN AND RISER

Project Number:
190051
Drawn By:
Author
Sheet:

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PANELBOARD: LHA1-3											
LOCATION: EXISTING WORK ROOM 101				VOLTAGE: 480/277 Wye V, 3 ø 4 W.							
MOUNTING: SURFACE NEMA 1				A.I.C. RATING: 14,000 AMPS SYMMETRICAL							
MAIN DEVICE: 225 A MAIN CB				SPECIAL:							
BUS AMPS: 225 AMPS											
LOAD DESCRIPTION	BKR	P	CKT	PHASE A KVA	PHASE B KVA	PHASE C KVA	CKT	P	BKR	LOAD DESCRIPTION	
100A TO 100E LIGHTS...	20 A	1	LHA1-3:1	1.0	8.3		LHA1-3:2	3	40 A	ACU-1 (EXISTING)	
Spare	20 A	1	LHA1-3:3		0.0	8.3	LHA1-3:4	--	--		
Spare	20 A	1	LHA1-3:5			0.0	8.3	LHA1-3:6	--		
Spare	20 A	1	LHA1-3:7	0.0	1.0		LHA1-3:8	1	20 A	103A LIGHTS (EXISTING)	
Space	--	--	LHA1-3:9		0.0	0.0	LHA1-3:10	1	20 A	Spare	
Space	--	--	LHA1-3:11			0.0	0.0	LHA1-3:12	1	20 A	Spare
Space	--	--	LHA1-3:13	0.0	0.0		LHA1-3:14	1	20 A	Spare	
Space	--	--	LHA1-3:15		0.0	0.0	LHA1-3:16	1	20 A	Spare	
Spare	20 A	1	LHA1-3:17			0.0	0.0	LHA1-3:18	1	20 A	Spare
Spare	20 A	1	LHA1-3:19	0.0	4.1		LHA1-3:20	3	20 A	AHU-5 SF1 (EXISTING)	
Spare	20 A	1	LHA1-3:21		0.0	4.1	LHA1-3:22	--	--		
Spare	20 A	1	LHA1-3:23			0.0	4.1	LHA1-3:24	--		
DSH-1 (N)	20 A	3	LHA1-3:25	4.2	4.1		LHA1-3:26	3	20 A	AHU-5 SF2 (EXISTING)	
--	--	--	LHA1-3:27		4.2	4.1	LHA1-3:28	--	--		
--	--	--	LHA1-3:29			4.2	4.1	LHA1-3:30	--		
EXISTING LOAD	20 A	3	LHA1-3:31	3.3	4.1		LHA1-3:32	3	20 A	AHU-5 RF (EXISTING)	
--	--	--	LHA1-3:33		3.3	4.1	LHA1-3:34	--	--		
--	--	--	LHA1-3:35			3.3	4.1	LHA1-3:36	--		
EDH (N)	20 A	3	LHA1-3:37	1.7	20.4		LHA1-3:38	3	60 A	T LLA1-3 (EXISTING LOAD)	
--	--	--	LHA1-3:39		1.7	20.9	LHA1-3:40	--	--		
--	--	--	LHA1-3:41			1.7	21.1	LHA1-3:42	--		
TOTAL LOAD:				52 kVA	51 kVA	51 kVA					
TOTAL AMPS:				188 A	183 A	183 A					
LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS							
HVAC	20691 VA	100.00%	20691 VA	CONNECTED LOAD: 153551 VA							
Other	1800 VA	100.00%	1800 VA	ESTIMATED DEMAND: 153551 VA							
RCPT	2760 VA	100.00%	2760 VA	CONNECTED CURRENT: 185 A							
SPEC	0 VA	0.00%	0 VA	EST. DEMAND CURRENT: 185 A							

NOTES: EXISTING PANEL. (N) PROVIDE NEW CIRCUIT BREAKERS. PROVIDE NEW UPDATED TYPED PANELBOARD DIRECTORY.

PANELBOARD: LLA1-3B											
LOCATION: EXISTING WORK ROOM 101				VOLTAGE: 120/208 Wye V, 3 ø 4 W.							
MOUNTING: SURFACE NEMA 1				A.I.C. RATING: 10,000 AMPS SYMMETRICAL							
MAIN DEVICE: 150 A M L O				SPECIAL:							
BUS AMPS: 225 AMPS											
LOAD DESCRIPTION	BKR	P	CKT	PHASE A KVA	PHASE B KVA	PHASE C KVA	CKT	P	BKR	LOAD DESCRIPTION	
TIME CLOCK/ EX LTG. (EXT)	20 A	1	LLA1-3B:1	0.2	0.4		LLA1-3B:2	1	20 A	RCPT-J2 GALLERY (N)	
EXISTING LOAD	20 A	1	LLA1-3B:3		0.7	0.4	LLA1-3B:4	1	20 A	RCPT-J2 GALLERY (N)	
EXISTING LOAD	20 A	1	LLA1-3B:5			0.7	0.2	LLA1-3B:6	1	20 A	RCPT-J2 CEILING (N)
EXISTING LOAD	20 A	1	LLA1-3B:7	0.7	0.4		LLA1-3B:8	1	20 A	RCPT-J2 FLOOR BOX (N)	
EXISTING LOAD	20 A	1	LLA1-3B:9			0.7	0.5	LLA1-3B:10	1	20 A	RCPT-J-9, J-10, EXTERIOR...
EXISTING LOAD	20 A	1	LLA1-3B:11			0.7	0.4	LLA1-3B:12	1	20 A	EXTERIOR SCREEN (N)
EXISTING LOAD	20 A	1	LLA1-3B:13	0.7	0.7		LLA1-3B:14	1	20 A	EXISTING LOAD	
EXISTING LOAD	20 A	1	LLA1-3B:15			0.7	0.0	LLA1-3B:16	1	20 A	Spare
EXISTING LOAD	20 A	1	LLA1-3B:17			0.7	1.2	LLA1-3B:18	1	20 A	FCU-1(N)
EXISTING LOAD	20 A	1	LLA1-3B:19	0.7	0.7		LLA1-3B:20	1	20 A	EXISTING LOAD	
COILING DOOR (N)	20 A	1	LLA1-3B:21		0.0	0.7	LLA1-3B:22	1	20 A	EXISTING LOAD	
COILING DOOR (N)	20 A	1	LLA1-3B:23			0.0	1.0	LLA1-3B:24	2	20 A	CUH (N)
EXISTING LOAD (GFCE)	20 A	1	LLA1-3B:25	0.7	1.0		LLA1-3B:26	--	--		
EXISTING LOAD	20 A	1	LLA1-3B:27			0.7	1.0	LLA1-3B:28	1	20 A	SCREEN CONTROLLER (N)
EXISTING LOAD	20 A	1	LLA1-3B:29			0.7	0.4	LLA1-3B:30	1	20 A	EXTERIOR SCREEN (N)
EXISTING LOAD	20 A	1	LLA1-3B:31	0.7	0.4		LLA1-3B:32	1	20 A	EXTERIOR SCREEN (N)	
EXISTING LOAD	20 A	1	LLA1-3B:33			0.7	0.4	LLA1-3B:34	1	20 A	EXTERIOR SCREEN (N)
EXISTING LOAD	20 A	1	LLA1-3B:35			0.7	0.4	LLA1-3B:36	1	20 A	EXTERIOR SCREEN (N)
HUMIDIFIER (EXISTING)	40 A	3	LLA1-3B:37	2.8	3.6		LLA1-3B:38	3	100 A	DIMMER PANEL (N)	
--	--	--	LLA1-3B:39			2.8	3.6	LLA1-3B:40	--	--	
--	--	--	LLA1-3B:41			2.8	3.6	LLA1-3B:42	--	--	
TOTAL LOAD:				14 kVA	13 kVA	13 kVA					
TOTAL AMPS:				114 A	107 A	112 A					
LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS							
HVAC	3232 VA	100.00%	3232 VA	CONNECTED LOAD: 39792 VA							
Other	1800 VA	100.00%	1800 VA	ESTIMATED DEMAND: 39792 VA							
RCPT	2760 VA	100.00%	2760 VA	CONNECTED CURRENT: 110 A							
SPEC	0 VA	0.00%	0 VA	EST. DEMAND CURRENT: 110 A							

NOTES: EXISTING PANEL. (N)- PROVIDE NEW CIRCUIT BREAKERS. PROVIDE NEW UPDATED TYPED PANELBOARD DIRECTORY.

PANELBOARD: ELB2											
LOCATION: SURFACE NEMA1				VOLTAGE: 120/208 Wye V, 3 ø 4 W.							
MOUNTING: SURFACE NEMA1				A.I.C. RATING: 10,000 AMPS SYMMETRICAL							
MAIN DEVICE: 60 A MCB				SPECIAL:							
BUS AMPS: 60 AMPS											
LOAD DESCRIPTION	BKR	P	CKT	PHASE A KVA	PHASE B KVA	PHASE C KVA	CKT	P	BKR	LOAD DESCRIPTION	
EXISTING LOAD	20 A	1	ELB2:1	0.0	0.0		ELB2:2	1	20 A	EXISTING LOAD	
EXISTING LOAD	20 A	1	ELB2:3		0.0	0.0	ELB2:4	1	20 A	EXISTING LOAD	
EXISTING LOAD	20 A	1	ELB2:5			0.0	0.0	ELB2:6	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	ELB2:7	0.0	0.0		ELB2:8	1	20 A	EXISTING LOAD	
EXISTING LOAD	20 A	1	ELB2:9		0.0	0.0	ELB2:10	1	20 A	EXISTING LOAD	
Spare	20 A	1	ELB2:11			0.0	0.0	ELB2:12	1	20 A	EXISTING LOAD
EXISTING LOAD	20 A	1	ELB2:13	0.0	0.0		ELB2:14	1	20 A	EXISTING LOAD	
			ELB2:15			0.0	ELB2:16	1	20 A	EXISTING LOAD	
			ELB2:17			0.0	ELB2:18	1	20 A	EXISTING LOAD	
			ELB2:19	0.0			ELB2:20	1	20 A	EXISTING LOAD	
			ELB2:21		0.0		ELB2:22	1	20 A	EXISTING LOAD	
			ELB2:23			0.0	ELB2:24	1	20 A	EXISTING LOAD	
SECURITY PANEL ART (N)	20 A	1	ELB2:25	1.0	1.0		ELB2:26	3	60 A	MAIN CB	
ARTS GALLERY EM (N)	20 A	1	ELB2:27		0.7	0.0	ELB2:28	--	--		
ARTS GALLERY EM (N)	20 A	1	ELB2:29			0.7	0.0	ELB2:30	--	--	
TOTAL LOAD:				1 kVA	1 kVA	1 kVA					
TOTAL AMPS:				8 A	6 A	6 A					
LOAD CLASSIFICATION	CONNECTED	DEMAND	ESTIMATED	PANEL TOTALS							
				CONNECTED LOAD: 2400 VA							
				ESTIMATED DEMAND: 2400 VA							
				CONNECTED CURRENT: 7 A							
				EST. DEMAND CURRENT: 7 A							

NOTES: EXISTING PANEL. (N) PROVIDE NEW CIRCUIT BREAKERS FOR NEW EMERGENCY LIGHTING IN THE ARTS GALLERY. PROVIDE NE...



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1	ADDUNDUM#1	07.02.2019
	ISSUED FOR BID AND PERMIT	06.18.2019
	95% BID DOCUMENTS	06.11.2019
	50% CD REVIEW SET	05.24.2019
	SCOPE REVIEW	03.28.2019
REV	DESCRIPTION	DATE

CLEVE CARNEY GALLERY EXPANSION

COLLEGE OF DUPAGE
McANINCH ARTS CENTER
425 FAWELL BLVD
GLEN ELLYN, IL 60137

SCHEDULES

Project Number:
190051
Drawn By:
C. SKENDER
Sheet:

E5.01