CAMDEN FAMILY HEALTH
WEBSTER COUNTY, WEST VIRGINIA
CAMDEN FAMILY HEALTH ADMINISTRATIVE OFFICES
ADDENDUM #2

APRIL 10, 2026
THRASHER PROJECT #T60-11021

TO WHOM IT MAY CONCERN:

A **MANDATORY** Pre-Bid Conference was held on Wednesday, March 18, 2026, on the above-referenced project. The following are clarifications and responses to questions posed by contractors for the above-referenced project.

A. GENERAL

1. **THE BID FORM HAS BEEN REVISED. YOU MUST USE THE REVISED BID FORM WHEN PREPARING YOUR BID PACKAGE FOR THIS PROJECT.**

B. SPECIFICATIONS

042200 Concrete Unit Masonry has been revised.
055000 Metal Fabrications has been revised.
074293 Soffit Panels has been removed.
074646 Fiber Cement Siding has been revised to include the soffit panels.

C. DRAWINGS

G1.02 has been revised.
C3.02: Added detail for exterior HVAC / Generator pads.
A1.02-1.03 have been revised.
A1.13 has been revised.
A3.02-3.05 have been revised.
A4.02 has been revised.
A5.02 has been revised.
A6.01-6.02 have been revised.
A7.02-7.03 have been revised.
F1.01 and F2.01and F5.01have been revised.
E1.01, E2.02, E3.00, E3.01, E4.00, E4.01 have been revised
P2.01 and P2.03 have been revised.

D. QUESTIONS AND RESPONSES

1. **QUESTION**
Reference Sheet A4.02 – There is a Refrigerator shown in the Breakroom. Please clarify if this is Owner Furnished/Owner Installed. If not, please provide additional information on product.

RESPONSE
The refrigerator is owner furnished and owner installed.

2. **QUESTION**
Reference Sheet A6.01 – Door Schedule. Door #101B lists frame type 1 but Floor Plan shows 'B2' frame. Please clarify.

RESPONSE
The doors with transom windows are Frame Type 3. See revised A6.01 attached. The door schedule was updated in Addendum 1.

3. **QUESTION**
Reference Sheet A6.01 – Door Schedule. Door #101D lists frame type 1 but Floor Plan shows 'B2' frame. Please clarify.

RESPONSE
The doors with transom windows are Frame Type 3. See revised A6.01 attached. The door schedule was updated in Addendum 1.

4. **QUESTION**
Reference Sheet A6.01 – Door Schedule. Door #101F lists frame type 1 but Floor Plan shows 'C' frame. Please clarify.

RESPONSE
The doors with transom windows are Frame Type 3. See revised A6.01 attached. The door schedule was updated in Addendum 1.

5. **QUESTION**
Reference Sheet A6.01 – Door Schedule. Door #101H lists frame type 1 but Floor Plan shows 'B1' frame. Please clarify.
Please clarify if 'B1' is the correct frame designation for this opening, Door Schedule shows this is a metal door and B1 is shown to be an aluminum frame.

RESPONSE
The doors with transom windows are Frame Type 3. See revised A6.01 attached. The door schedule was updated in Addendum 1. Door 101H was revised in Addendum 1.

6. **QUESTION**
Reference Sheet A6.01 – Door Schedule. Door #122B lists frame type 1 but Floor Plan shows 'B2' frame. Please clarify.

RESPONSE
The doors with transom windows are Frame Type 3. See revised A6.01 attached. The door schedule was updated in Addendum 1.

7. **QUESTION**
Reference Sheet A6.01 – Door Schedule. Door #145 does not list a frame type but Floor Plan shows 'B2' frame. Please clarify. Please clarify is 'B2' is the correct frame designation for this opening. Door Schedule shows this is an aluminum door and B2 is shown to be a metal frame.

RESPONSE
The doors with transom windows are Frame Type 3. See revised A6.01 attached. The door schedule was updated in Addendum 1. Door 145 was revised in Addendum 1.

8. **QUESTION**
Reference Sheet A6.01 – Door Schedule. Room #149 is not listed on the schedule but the Floor Plan indicates this should have a Cased Opening Frame. Please clarify.

RESPONSE
See revised A6.01 attached.

9. **QUESTION**
Reference Sheet A6.01 – Door Schedule. Door #142 lists frame type 3. Please clarify if this should be frame type 1.

RESPONSE
Door 142 was revised in Addendum 1.

10. **QUESTION**
Reference Sheet A7.02 – For exposed ceiling areas, please clarify if these are to be painted.

RESPONSE
The exposed ceilings are not painted.

11. **QUESTION**
Reference Sheet C2.01 – There are notes for: HVAC, Generator & Transformer pads. Could details for these be provided?

RESPONSE
Added a typical pad detail for the HVAC and Generator. The Transform pad shall follow the power company's standard.

12. **QUESTION**
Reference Sheet A1.12 – Room #119 "Janitor" shows a gypsum ceiling but also lists OTA/Exposed ceiling. Shall the Finish Schedule take precedence (gypsum ceiling)?

RESPONSE
Room 119 has a gypsum board ceiling as scheduled.

13. **QUESTION**
Reference Sheet A1.13 – Room #135 "Server" is shown as OTA/Exposed ceiling but Finish Schedule on Sheet A7.02 list ACT. Please clarify.

RESPONSE
Room 135 has an exposed ceiling. See the revised schedule attached.

14. **QUESTION**
Reference Sheet A1.13 – Room #141 "Shell" is shown as OTA/Exposed ceiling but Finish Schedule on Sheet A7.02 lists ACT. Please clarify.

RESPONSE
Room 141 has an ACT ceiling as scheduled. See the revised A1.13 attached.

15. QUESTION
Reference Sheet A1.13 – Room #145 “Vestibule” is shown as gypsum ceiling but Finish Schedule on Sheet A7.02 lists ACT. Please clarify.

RESPONSE
Room 145 has a gypsum board ceiling. See the revised schedule attached.

16. QUESTION
The schedule has no Sign Types listed. They are all blank.

RESPONSE
A7.03 Signage was revised in Addendum 1.

17. QUESTION
There are 3 sign types shown & under Signage Requirements there are 3 sign types that don't match the sign type drawings.

RESPONSE
A7.03 Signage was revised in Addendum 1.

18. QUESTION
How many exit signs are required? I don't see them listed in the schedule.

RESPONSE
There are no composite tactile exit signs. Refer to the RCP and electrical drawings for exit sign locations.

19. QUESTION
Sign Type 2 drawing does not appear under the signage requirements. The schedule only lists Unisex Restrooms. Clarify if the 8"x8" Sign Type 2 Drawing is needed or will that drawing actually become a 10"x8", Unisex Restroom sign.

RESPONSE
A7.03 Signage was revised in Addendum 1.

20. QUESTION
Page G1.02 Wall Type A6 called out 5 3/8” width but only mentions 5/8” GYP on both sides what else is supposed to be on this wall type?

RESPONSE
Wall Type A6 includes a ½” channel. See the revised G1.02 attached.

21. QUESTION
Page G1.02 Wall Type A5 does not specify RC Channel but the picture represents RC Channel on one side. Does RC Channel go on all A5 Wall Types?

RESPONSE
Yes. All walls listed under the partition detail with a resilient channel contain a channel on one side (Type A3, A4, A5, A6, & A9). See the revised G1.02 attached.

22. QUESTION
Page A1.02 Room 119 North & West walls are shown as rated walls but labeled as A1 Wall Type that are not all the way to the deck. Do they need to be A2 Wall Type

RESPONSE
Yes. See revised G1.02 attached.

23. QUESTION
Page A1.02 Room 121 North East wall is labeled A6 wall type 3 5/8 stud, but it's drawn as a 6" wall. This wall also runs through the adjacent corridor and continues to page A1.03 room 125 & 122 is this supposed to be a 6" stud?

RESPONSE
Yes. This was revised in Addendum 1.

24. QUESTION
Page A1.03 room 131 Northeast wall is a A6 WT is this 3 5/8 stud or 6" stud?

RESPONSE
6" stud. This was revised in Addendum 1.

25. QUESTION
Page A3.02 wall section 1 shows GYP to hard ceiling, but not above ceiling does GYP need put on back side of all exterior wall to hold insulation?

RESPONSE
The gypsum will terminate above ceiling at the underside of the truss. The wall cavity insulation will terminate shortly above the attic insulation. See the revised A3.03 attached.

26. QUESTION
On wall section pages ceiling is shown at 10' elevation, but RCP pages show 9'6" please clarify.

RESPONSE
Refer to the RCP and Finish Schedule for ceiling heights. All ceilings are 10'-0" unless noted otherwise.

27. QUESTION
On wall section pages the exterior walls call out ½" hat channel @ 16" OC. Could we switch to nail base so the siding installer can install fiber cement panel with nails?

RESPONSE
Not at this time, but this can be reconsidered during construction if it is warranted.

28. QUESTION

Page G1.02 wall type A1, A3, A7, A5, and A9 show insulation above suspended ceilings, but per wall section pages insulation is not shown above ACT, does insulation only go in between roof trusses above GYP hung to bottom side of roof trusses?

RESPONSE

Sound attenuation insulation needs to be lapped 3'-0" on either side above the ceiling at walls that terminate 6" above and are scheduled to have sound batt in the cavity. Walls that are scheduled to have sound batt in the cavity and terminate at the underside of the trusses shall have acoustical sealant at the top of the wall.

29. QUESTION

Section 312000 refers to an allowance for element of soil stabilization within the pavement areas. There is no Allowance section describing either an area in square yards to be stabilized or an amount representing dollars for this work. The Bid Form only references cash allowances following and in accordance with Paragraph 3.8 which Is the General Conditions AIA A201. Please complete the Bid Form and either specify a method of providing a unit price or specify an allowance for use by all the bidders.

RESPONSE

See the revised bid form for unit pricing.

30. QUESTION

Section 042000 is not in the specifications.

RESPONSE

The reference to 042000 has been changed to 042200. See the revised 042200 attached.

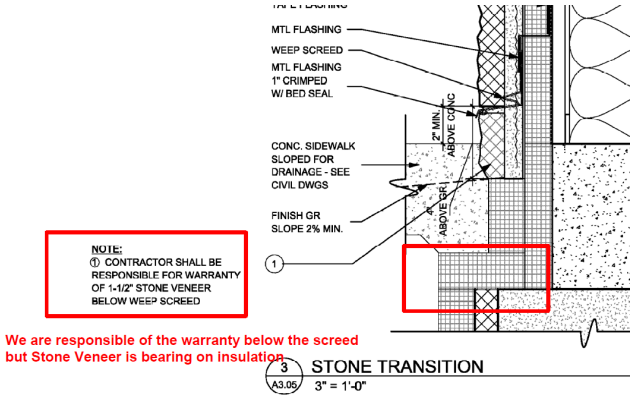
31. QUESTION

Could ASI controls be added as a building automation provider for this project?

RESPONSE

Yes. ASI controls are acceptable.

32. QUESTION



RESPONSE

The contractor is responsible for the warranty of the stone veneer below the weep screed for three years. To maintain aesthetic consistency on the exterior of the building, the veneer will continue below the manufacturer warranty. The veneer at all sidewalk locations will terminate at the concrete below. The veneer at all grade locations will terminate at the additional rigid insulation below. However, stone veneer is an adhered product and does not need to bear on a surface below.

E. CLARIFICATIONS

None

As a reminder, bids will be received until **1:00 p.m.** on **Thursday, April 16, 2026,** at **1003 Webster Road**, **Camden on Gauley, WV 26208 WV.** Good luck to everyone and thank you for your interest in the project.

Sincerely,

THE THRASHER GROUP, INC.

CASEY ARTHUR
Architect / Project Manager

Enclosures:

REVISED: Addendum #2
April 10, 2026

CAMDEN FAMILY HEALTH
WEBSTER COUNTY, WEST VIRGINIA
FOR THE
CAMDEN FAMILY HEALTH ADMINISTRATIVE OFFICES
THRASHER #T60-11021

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CAMDEN FAMILY HEALTH
WEBSTER COUNTY, WEST VIRGINIA
FOR THE
CAMDEN FAMILY HEALTH ADMINISTRATIVE OFFICES
THRASHER #T60-11021

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BID FORM FOR CONSTRUCTION CONTRACT

The terms used in this Bid with initial capital letters have the meanings stated in the Instructions to Bidders, the General Conditions, and the Supplementary Conditions.

ARTICLE 1—OWNER AND BIDDER

1.01 This Bid is submitted to:

Camden Family Health
10003 Webster Rd
Camden-On-Gauley, WV 26208

1.02 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an Agreement with Owner in the form included in the Bidding Documents to perform all Work as specified or indicated in the Bidding Documents for the prices and within the times indicated in this Bid and in accordance with the other terms and conditions of the Bidding Documents.

ARTICLE 2—ATTACHMENTS TO THIS BID

2.01 The following documents are submitted with and made a condition of this Bid:

A. Bid Opening Requirements

ARTICLE 3—BASIS OF BID—LUMP SUM BID AND UNIT PRICES

GENERAL

The Bidder shall take notice of and shall be responsible for any local or state taxes levied and applicable, and the cost for the same shall be included as part of the submitted Bid.

The total Bid cost stated includes a complete operating installation including furnishing and installation of any and all changes or additions in plans, piping, mechanical work, additional electrical work, accessories, controls, etc. necessary to accommodate alternative equipment systems or materials used in construction.

BID PROPOSAL

The Bidder agrees to perform all required Work described in the detailed Specifications and as shown on the Plans for the complete construction and placing in satisfactory operation the Camden Family Health Administrative Offices. The Project "Sequence of Construction" has been detailed in the Drawings and Specification Division 1, Project Summary, Section 011000. The Bidder agrees to perform all the Work proposed for the total of the following Bid prices.

3.01 *Lump Sum Bids*

A. Bidder will complete the Work in accordance with the Contract Documents for the lump sum (stipulated) price(s), shown in the bid schedule.

B. Lump Sum Bids may be one of the following:

1. Lump Sum Price (Single Lump Sum)

2. Lump Sum Price (Base Bid and Alternates)

3. Lump Sum Price (Sectional Lump Sum Bids)

C. All specified cash allowance(s) are included in the price(s) set forth in the bid schedule, and have been computed in accordance with Paragraph 3.8 of the General Conditions.

D. All specified contingency allowances are included in the price(s) set forth in the bid schedule, and have been computed in accordance with Paragraph 3.8 of the General Conditions.

BID SCHEDULE
PROPOSED

CAMDEN FAMILY HEALTH ADMINISTRATIVE OFFICES

FOR THE
CAMDEN FAMILY HEALTH
WEBSTER COUNTY, WEST VIRGINIA

3.02 Total Bid Price Lump Sum

NOTE: Bid PRICE amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern. Bids shall include sales tax and all other applicable taxes and fees.

Item #	Qty	UNIT	DESCRIPTION	TOTAL PRICE
1	1	LS	*Provide all labor, materials, equipment, fees, bonds, insurance and taxes to perform the work as detailed in the plans and specifications and addenda.*	

TOTAL BID: _____ _____
(Written in Words)

_____($_____)

(Amounts are to be shown in both words and figures. In case of discrepancy, the amount shown in words will govern.)

UNIT COST ITEMS

Item #	Qty.	UNIT	DESCRIPTION	UNIT PRICE	UNIT PRICE WRITTEN IN WORDS	TOTAL PRICE
1	200	CY	Removal of existing relic footers/slab and replaced with engineered fill			
2	10,000	SF	12" of Cement Stabilization at Building footprint			
3	32,000	SF	9" of Cement Stabilization at Parking Lot footprint			

*These Unit Prices shall be honored until Substantial Completion

3.02 *Method of Award*

If at the time this contract is to be awarded, the lowest total bid submitted by a qualified, responsive, responsible Bidder does not exceed the amount of funds then estimated by the Owner, as available to finance the contract, the construction contract will be awarded. If such bids exceeds such amount, the owner may reject all bids.

~~**ARTICLE 4—BASIS OF BID—COST-PLUS FEE**~~

Deleted

~~**ARTICLE 5—PRICE-PLUS-TIME BID**~~

Deleted

ARTICLE 6—TIME OF COMPLETION

6.01 Bidder agrees that the Work will be substantially complete and will be completed and ready for final payment in accordance with Article 8 of the General Conditions on or before the dates or within the number of calendar days indicated in the Agreement.

6.02 Bidder accepts the provisions of the Agreement as to liquidated damages.

ARTICLE 7—BIDDER'S ACKNOWLEDGEMENTS: ACCEPTANCE PERIOD AND INSTRUCTIONS

7.01 *Bid Acceptance Period*

A. This Bid will remain subject to acceptance for 90 days after the Bid opening, or for such longer period of time that Bidder may agree to in writing upon request of Owner.

7.02 *Instructions to Bidders*

A. Bidder accepts all of the terms and conditions of the Instructions to Bidders, including without limitation those dealing with the disposition of Bid security.

ARTICLE 8—BIDDER'S REPRESENTATIONS AND CERTIFICATIONS

8.01 *Bidder's Representations*

A. In submitting this Bid, Bidder represents the following:

1. Bidder has examined and carefully studied the Bidding Documents, including Addenda.
2. Bidder has visited the Site, conducted a thorough visual examination of the Site and adjacent areas, and become familiar with the general, local, and Site conditions that may affect cost, progress, and performance of the Work.
3. Bidder is familiar with all Laws and Regulations that may affect cost, progress, and performance of the Work**.**
4. Bidder has carefully studied the reports of explorations and tests of subsurface conditions at or adjacent to the Site and the drawings of physical conditions relating to existing surface or subsurface structures at the Site that have been identified in the Supplementary Conditions, with respect to the Technical Data in such reports and drawings.

5. Bidder has carefully studied the reports and drawings relating to Hazardous Environmental Conditions, if any, at or adjacent to the Site that have been identified in the Supplementary Conditions, with respect to Technical Data in such reports and drawings.

6. Bidder has considered the information known to Bidder itself; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Bidding Documents; and the Technical Data identified in the Supplementary Conditions or by definition, with respect to the effect of such information, observations, and Technical Data on (a) the cost, progress, and performance of the Work; (b) the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder, if selected as Contractor; and (c) Bidder's (Contractor's) safety precautions and programs.

7. Based on the information and observations referred to in the preceding paragraph, Bidder agrees that no further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract.

8. Bidder is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Bidding Documents.

9. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Bidding Documents, and of discrepancies between Site conditions and the Contract Documents, and the written resolution thereof by Engineer is acceptable to Contractor.

10. The Bidding Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

11. The submission of this Bid constitutes an incontrovertible representation by Bidder that without exception the Bid and all prices in the Bid are premised upon performing and furnishing the Work required by the Bidding Documents.

8.02 *Bidder's Certifications*

A. The Bidder certifies the following:

1. This Bid is genuine and not made in the interest of or on behalf of any undisclosed individual or entity and is not submitted in conformity with any collusive agreement or rules of any group, association, organization, or corporation.

2. Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid.

3. Bidder has not solicited or induced any individual or entity to refrain from bidding.

4. Bidder has not engaged in corrupt, fraudulent, collusive, or coercive practices in competing for the Contract. For the purposes of this Paragraph 8.02.A:

a. Corrupt practice means the offering, giving, receiving, or soliciting of anything of value likely to influence the action of a public official in the bidding process.

b. Fraudulent practice means an intentional misrepresentation of facts made (a) to influence the bidding process to the detriment of Owner, (b) to establish bid prices at artificial non-competitive levels, or (c) to deprive Owner of the benefits of free and open competition.

c. Collusive practice means a scheme or arrangement between two or more Bidders, with or without the knowledge of Owner, a purpose of which is to establish bid prices at artificial, non-competitive levels.

d. Coercive practice means harming or threatening to harm, directly or indirectly, persons or their property to influence their participation in the bidding process or affect the execution of the Contract.

BIDDER hereby submits this Bid as set forth above:

Bidder:

_____

(typed or printed name of organization)

By: _____

(individual's signature)

Name: _____

(typed or printed)

Title: _____

(typed or printed)

Date: _____

(typed or printed)

If Bidder is a corporation, a partnership, or a joint venture, attach evidence of authority to sign.

Attest: _____

(individual's signature)

Name: _____

(typed or printed)

Title: _____

(typed or printed)

Date: _____

(typed or printed)

Address for giving notices:

_____

_____

Bidder's Contact:

Name: _____

(typed or printed)

Title: _____

(typed or printed)

Phone: _____

Email: _____

Address:

_____

_____

_____

Bidder's Contractor License No.: (if applicable) _____

SECTION 042200 - CONCRETE UNIT MASONRY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Concrete masonry units.
2. Mortar and grout.
3. Steel reinforcing bars.
4. Masonry-joint reinforcement.
5. Embedded flashing.
6. Miscellaneous masonry accessories.

B. Related Requirements:

1. Section 051200 "Structural Steel Framing" for installing anchor sections of adjustable masonry anchors for connecting to structural steel frame.
2. Section 071113 "Bituminous Dampproofing" for water repellents applied to unit masonry assemblies.

DEFINITIONS

C. CMU(s): Concrete masonry unit(s).

D. Reinforced Masonry: Masonry containing reinforcing steel in grouted cells.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For the following:

1. Masonry Units: Show sizes, profiles, coursing, and locations of special shapes.

2. Reinforcing Steel: Detail bending, lap lengths, and placement of unit masonry reinforcing bars. Comply with ACI 315. Show elevations of reinforced walls.
3. Fabricated Flashing: Detail corner units, end-dam units, and other special applications.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For testing agency.

B. Material Certificates: For each type and size of the following:

1. Masonry units.

   a. Include data on material properties and material test reports substantiating compliance with requirements.
   b. For masonry units used in structural masonry, include data and calculations establishing average net-area compressive strength of units.

2. Integral water repellant used in CMUs.
3. Cementitious materials. Include name of manufacturer, brand name, and type.
4. Mortar admixtures.
5. Preblended, dry mortar mixes. Include description of type and proportions of ingredients.
6. Grout mixes. Include description of type and proportions of ingredients.
7. Reinforcing bars.
8. Joint reinforcement.
9. Anchors, ties, and metal accessories.

C. Mix Designs: For each type of mortar and grout. Include description of type and proportions of ingredients.

D. Statement of Compressive Strength of Masonry: For each combination of masonry unit type and mortar type, provide statement of average net-area compressive strength of masonry units, mortar type, and resulting net-area compressive strength of masonry determined according to TMS 602.

E. Cold-Weather and Hot-Weather Procedures: Detailed description of methods, materials, and equipment to be used to comply with requirements.

1.5 QUALITY ASSURANCE

A. Testing Agency Qualifications: Qualified according to ASTM C 1093 for testing indicated.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Store masonry units on elevated platforms in a dry location. If units are not stored in an enclosed location, cover tops and sides of stacks with waterproof sheeting, securely tied. If units become wet, do not install until they are dry.

B. Store cementitious materials on elevated platforms, under cover, and in a dry location. Do not use cementitious materials that have become damp.

C. Store aggregates where grading and other required characteristics can be maintained and contamination avoided.

D. Deliver preblended, dry mortar mix in moisture-resistant containers. Store preblended, dry mortar mix in delivery containers on elevated platforms in a dry location or in covered weatherproof dispensing silos.

E. Store masonry accessories, including metal items, to prevent corrosion and accumulation of dirt and oil.

1.7 FIELD CONDITIONS

A. Protection of Masonry: During construction, cover tops of walls, projections, and sills with waterproof sheeting at end of each day's work. Cover partially completed masonry when construction is not in progress.

1. Extend cover a minimum of 24 inches (600 mm) down both sides of walls, and hold cover securely in place.

B. Do not apply uniform floor or roof loads for at least 12 hours and concentrated loads for at least three days after building masonry walls or columns.

C. Stain Prevention: Prevent grout, mortar, and soil from staining the face of masonry to be left exposed or painted. Immediately remove grout, mortar, and soil that come in contact with such masonry.

1. Protect base of walls from rain-splashed mud and from mortar splatter by spreading coverings on ground and over wall surface.
2. Protect sills, ledges, and projections from mortar droppings.
3. Protect surfaces of window and door frames, as well as similar products with painted and integral finishes, from mortar droppings.
4. Turn scaffold boards near the wall on edge at the end of each day to prevent rain from splashing mortar and dirt onto completed masonry.

D. Cold-Weather Requirements: Do not use frozen materials or materials mixed or coated with ice or frost. Do not build on frozen substrates. Remove and replace unit masonry

damaged by frost or by freezing conditions. Comply with cold-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

1. Cold-Weather Cleaning: Use liquid cleaning methods only when air temperature is 40 deg F (4 deg C) and higher and will remain so until masonry has dried, but not less than seven days after completing cleaning.

E. Hot-Weather Requirements: Comply with hot-weather construction requirements contained in TMS 602/ACI 530.1/ASCE 6.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations for Masonry Units: Obtain exposed masonry units of a uniform texture and color, or a uniform blend within the ranges accepted for these characteristics, from single source from single manufacturer for each product required.

B. Source Limitations for Mortar Materials: Obtain mortar ingredients of a uniform quality, including color for exposed masonry, from single manufacturer for each cementitious component and from single source or producer for each aggregate.

2.2 PERFORMANCE REQUIREMENTS

A. Provide structural unit masonry that develops indicated net-area compressive strengths at 28 days.

1. Determine net-area compressive strength of masonry from average net-area compressive strengths of masonry units and mortar types (unit-strength method) according to TMS 602/ACI 530.1/ASCE 6.
2. Determine net-area compressive strength of masonry by testing masonry prisms according to ASTM C 1314.

2.3 UNIT MASONRY, GENERAL

A. Masonry Standard: Comply with TMS 602 except as modified by requirements in the Contract Documents.

B. Defective Units: Referenced masonry unit standards may allow a certain percentage of units to contain chips, cracks, or other defects exceeding limits stated. Do not use units where such defects are exposed in the completed Work and will be within 20 feet (6 m) vertically and horizontally of a walking surface.

C. Fire-Resistance Ratings: Comply with requirements for fire-resistance-rated assembly designs indicated.

1. Where fire-resistance-rated construction is indicated, units shall be listed and labeled by a qualified testing agency acceptable to authorities having jurisdiction.

2.4 CONCRETE MASONRY UNITS

A. Shapes: Provide shapes indicated and as follows, with exposed surfaces matching exposed faces of adjacent units unless otherwise indicated.

1. Provide special shapes for lintels, corners, jambs, sashes, movement joints, headers, bonding, and other special conditions.
2. Provide square-edged units for outside corners unless otherwise indicated.

B. Integral Water Repellent: Provide units made with integral water repellent for exposed units.

1. Integral Water Repellent: Liquid polymeric, integral water-repellent admixture that does not reduce flexural bond strength. Units made with integral water repellent, when tested according to ASTM E 514/E 514M as a wall assembly made with mortar containing integral water-repellent manufacturer's mortar additive, with test period extended to 24 hours, shall show no visible water or leaks on the back of test specimen.

C. CMUs: ASTM C 90.

1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 2800 psi (19.3 MPa).
2. Density Classification: Normal weight unless otherwise indicated.
3. Size (Width): Manufactured to dimensions 3/8 inch (10 mm) less-than-nominal dimensions.
4. Exposed Faces: Provide color and texture matching the range represented by Architect's sample.

D. Decorative CMUs: ASTM C90.

1. Unit Compressive Strength: Provide units with minimum average net-area compressive strength of 2800 psi
2. Density Classification: Normal weight.
3. Pattern and Texture:
   a. Standard pattern, split-face finish.

2.11 MASONRY-CELL FILL

B. Loose-Fill Insulation: Where indicated on drawings. Perlite complying with ASTM C549, Type II (surface treated for water repellency and limited moisture absorption) or Type IV (surface treated for water repellency and to limit dust generation).

3.2 MORTAR AND GROUT MATERIALS

A. Portland Cement: ASTM C 150/C 150M, Type I or II, except Type III may be used for cold-weather construction. Provide natural color or white cement as required to produce mortar color indicated.

1. Alkali content shall not be more than 0.1 percent when tested according to ASTM C 114.

B. Hydrated Lime: ASTM C 207, Type S.

C. Portland Cement-Lime Mix: Packaged blend of portland cement and hydrated lime containing no other ingredients.

D. Masonry Cement: ASTM C 91/C 91M.

1. Lehigh Hanson Masonry cement Type S or equal

E. Mortar Cement: ASTM C 1329/C 1329M.

1. Lehigh Hanson Mortar cement Type S or equal

F. Mortar Pigments: Natural and synthetic iron oxides and chromium oxides, compounded for use in mortar mixes and complying with ASTM C 979/C 979M. Use only pigments with a record of satisfactory performance in masonry mortar.

1. Confirm color with the Architect if required

G. Aggregate for Mortar: ASTM C 144.

1. For mortar that is exposed to view, use washed aggregate consisting of natural sand or crushed stone.
2. For joints less than 1/4 inch (6 mm) thick, use aggregate graded with 100 percent passing the No. 16 (1.18-mm) sieve.

H. Aggregate for Grout: ASTM C 404.

I. Cold-Weather Admixture: Nonchloride, noncorrosive, accelerating admixture complying with ASTM C 494/C 494M, Type C, and recommended by manufacturer for use in masonry mortar of composition indicated.

1. None allowed.

J. Water-Repellent Admixture: Liquid water-repellent mortar admixture intended for use with CMUs containing integral water repellent from same manufacturer.

1. Basis-of-Design Product: Subject to compliance with requirements, provide BASF Corporation; Admixture Systems; MasterPel 240MA or approved equal.

K. Water: Potable.

3.3 REINFORCEMENT

A. Uncoated Steel Reinforcing Bars: ASTM A 615/A 615M or ASTM A 996/A 996M, Grade 60 (Grade 420).

B. Reinforcing Bar Positioners: Wire units designed to fit into mortar bed joints spanning masonry unit cells and to hold reinforcing bars in center of cells. Units are formed from 0.148-inch (3.77-mm) steel wire, hot-dip galvanized after fabrication. Provide units designed for number of bars indicated.

C. Masonry-Joint Reinforcement, General: Ladder type complying with ASTM A 951/A 951M.

1. Interior Walls: Hot-dip galvanized carbon steel.
2. Exterior Walls: Hot-dip galvanized carbon steel.
3. Wire Size for Side Rods: 0.187-inch (4.76-mm) diameter.
4. Wire Size for Cross Rods: 0.187-inch (4.76-mm) diameter.
5. Spacing of Cross Rods: Not more than 16 inches (407 mm) o.c.
6. Provide in lengths of not less than 10 feet (3 m), with prefabricated corner and tee units.

3.4 TIES AND ANCHORS

A. General: Ties and anchors shall extend at least 1-1/2 inches (38 mm) into masonry but with at least a 5/8-inch (16-mm) cover on outside face.

B. Materials: Provide ties and anchors specified in this article that are made from materials that comply with the following unless otherwise indicated:
1. Hot-Dip Galvanized, Carbon-Steel Wire: ASTM A 82/A 82M, with ASTM A 153/A 153M, Class B-2 coating.
2. Stainless-Steel Wire: ASTM A 580/A 580M, Type 304 or Type 316.
3. Steel Sheet, Galvanized after Fabrication: ASTM A 1008/A 1008M, Commercial Steel, with ASTM A 153/A 153M, Class B coating.
4. Steel Plates, Shapes, and Bars: ASTM A 36/A 36M.

C. Adjustable Anchors for Connecting to Structural Steel Framing: Provide anchors that allow vertical or horizontal adjustment but resist tension and compression forces perpendicular to plane of wall.

1. Anchor Section for Welding to Steel Frame: Crimped 1/4-inch- (6.35-mm-) diameter, hot-dip galvanized steel wire. Mill-galvanized wire may be used at interior walls unless otherwise indicated.
2. Tie Section: Triangular-shaped wire tie made from 0.187-inch- (4.76-mm-) diameter, hot-dip galvanized steel wire. Mill-galvanized wire may be used at interior walls unless otherwise indicated.

D. Rigid Anchors: Fabricate from steel bars .

1. Corrosion Protection: .

3.5 EMBEDDED FLASHING MATERIALS

A. Metal Flashing: Provide metal flashing complying with and as follows:

1. Stainless Steel: ASTM A 240/A 240M or ASTM A 666, Type 304, 0.016 inch (0.40 mm) thick.
2. Fabricate through-wall flashing with snaplock receiver on exterior face where indicated to receive counterflashing.
3. Fabricate through-wall flashing with drip edge where indicated. Fabricate by extending flashing 1/2 inch (13 mm) out from wall, with outer edge bent down 30 degrees and hemmed.
4. Fabricate through-wall flashing with sealant stop where indicated. Fabricate by bending metal back on itself 3/4 inch (19 mm) at exterior face of wall and down into joint 1/4 inch (6 mm) to form a stop for retaining sealant backer rod.
5. Fabricate metal drip edges sealant stops for ribbed metal flashing from plain metal flashing of same metal as ribbed flashing and extending at least 3 inches (76 mm) into wall with hemmed inner edge to receive ribbed flashing and form a hooked seam. Form hem on upper surface of metal so that completed seam sheds water.
6. Fabricate metal drip edges from stainless steel. Extend at least 3 inches (76 mm) into wall and 1/2 inch (13 mm) out from wall, with outer edge bent down 30 degrees and hemmed.
7. Fabricate metal sealant stops from stainless steel. Extend at least 3 inches (76 mm) into wall and out to exterior face of wall. At exterior face of wall, bend metal back on itself for 3/4 inch (19 mm) and down into joint 1/4 inch (6 mm) to form a stop for retaining sealant backer rod.
8. Fabricate metal expansion-joint strips from stainless steel to shapes indicated.
9. Solder metal items at corners.

B. Flexible Flashing: Use the following unless otherwise indicated:

1. EPDM Flashing: Sheet flashing product made from ethylene-propylene-diene terpolymer, complying with ASTM D 4637/D 4637M, 0.040 inch (1.02 mm) thick.

C. Application: Unless otherwise indicated, use the following:

1. Where flashing is indicated to receive counterflashing, use metal flashing.
2. Where flashing is indicated to be turned down at or beyond the wall face, use metal flashing.
3. Where flashing is partly exposed and is indicated to terminate at the wall face, use metal flashing .
4. Where flashing is fully concealed, use flexible flashing.

D. Single-Wythe CMU Flashing System: System of CMU cell flashing pans and interlocking CMU web covers made from UV-resistant, high-density polyethylene. Cell flashing pans have integral weep spouts designed to be built into mortar bed joints and that extend into the cell to prevent clogging with mortar.

E. Solder and Sealants for Sheet Metal Flashings: As specified in Section 076200 "Sheet Metal Flashing and Trim."

1. Solder for Stainless Steel: ASTM B 32, Grade Sn60, with acid flux of type recommended by stainless-steel sheet manufacturer.
2. Elastomeric Sealant: ASTM C 920, chemically curing urethane sealant; of type, grade, class, and use classifications required to seal joints in sheet metal flashing and remain watertight.

F. Adhesives, Primers, and Seam Tapes for Flashings: Flashing manufacturer's standard products or products recommended by flashing manufacturer for bonding flashing sheets to each other and to substrates.

3.6 MISCELLANEOUS MASONRY ACCESSORIES

A. Compressible Filler: Premolded filler strips complying with ASTM D 1056, Grade 2A1; compressible up to 35 percent; of width and thickness indicated; formulated from neoprene.

B. Preformed Control-Joint Gaskets: Made from styrene-butadiene-rubber compound, complying with ASTM D 2000, Designation M2AA-805 and designed to fit standard sash block and to maintain lateral stability in masonry wall; size and configuration as indicated.

C. Bond-Breaker Strips: Asphalt-saturated felt complying with ASTM D 226/D 226M, Type I (No. 15 asphalt felt).

D. Weep/Cavity Vent Products: Use one of the following unless otherwise indicated:

1. Cellular Plastic Weep/Vent: One-piece, flexible extrusion made from UV-resistant polypropylene copolymer, full height and width of head joint and depth 1/8 inch less than depth of outer wythe, in color selected from manufacturer's standard.

2. Mesh Weep/Vent: Free-draining mesh; made from polyethylene strands, full height and width of head joint and depth 1/8 inch less than depth of outer wythe; in color selected from manufacturer's standard.

3. Vinyl Weep Hole/Vent: Units made from flexible PVC, designed to fit into a head joint and consisting of a louvered vertical leg, flexible wings to seal against ends of masonry units, and a top flap to keep mortar out of the head joint; in color selected by Architect.

E. Cavity Drainage Material: Free-draining mesh, made from polymer strands that will not degrade within the wall cavity.
1. Configuration: Provide one of the following:
a. Strips, full depth of cavity and 10 inches high, with dovetail shaped notches 7 inches deep that prevent clogging with mortar droppings.
b. Strips, not less than ¾ inch thick and 10 inches high, with dimpled surface designed to catch mortar droppings and prevent weep holes from clogging with mortar.
c. Sheets or strips full depth of cavity and installed to full height of cavity.
d. Sheets or strips not less than ¾ inch thick and installed to full height of cavity, with additional strips 4 inches high at weep holes and thick enough to fill entire depth of cavity and prevent weep holes from clogging with mortar.

3.7 MORTAR AND GROUT MIXES

A. General: Do not use admixtures, including pigments, air-entraining agents, accelerators, retarders, water-repellent agents, antifreeze compounds, or other admixtures unless otherwise indicated.

1. Do not use calcium chloride in mortar or grout.
2. Use masonry cement mortar unless otherwise indicated.
3. For reinforced masonry, use masonry cement mortar.

B. Preblended, Dry Mortar Mix: Furnish dry mortar ingredients in form of a preblended mix. Measure quantities by weight to ensure accurate proportions, and thoroughly blend ingredients before delivering to Project site.

C. Mortar for Unit Masonry: Comply with ASTM C 270, Proportion Specification. Provide the following types of mortar for applications stated unless another type is indicated or needed to provide required compressive strength of masonry].

1. For masonry below grade or in contact with earth, use Type S.
2. For reinforced masonry, use Type S.
3. For mortar parge coats, use Type S.
4. For exterior, above-grade, load-bearing and nonload-bearing walls and parapet walls; for interior load-bearing walls; for interior nonload-bearing partitions; and for other applications where another type is not indicated, use Type S.

D. Grout for Unit Masonry: Comply with ASTM C 476.

1. Use grout of type indicated or, if not otherwise indicated, of type (fine or coarse) that will comply with TMS 602 for dimensions of grout spaces and pour height.
2. Proportion grout in accordance with ASTM C 476, paragraph 4.2.2 for specified 28-day compressive strength indicated, but not less than 2000 psi (14 MPa).
3. Provide grout with a slump of 8 to 11 inches (200 to 280 mm) as measured according to ASTM C 143/C 143M.

PART 4 - EXECUTION

4.1 EXAMINATION

A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance of the Work.
2. Verify that foundations are within tolerances specified.
3. Verify that reinforcing dowels are properly placed.
4. Verify that substrates are free of substances that would impair mortar bond.

B. Before installation, examine rough-in and built-in construction for piping systems to verify actual locations of piping.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

4.2 INSTALLATION, GENERAL

A. Build chases and recesses to accommodate items specified in this and other Sections.

B. Leave openings for equipment to be installed before completing masonry. After installing equipment, complete masonry to match construction immediately adjacent to opening.

C. Use full-size units without cutting if possible. If cutting is required to provide a continuous pattern or to fit adjoining construction, cut units with motor-driven saws; provide clean, sharp, unchipped edges. Allow units to dry before laying unless wetting of units is specified. Install cut units with cut surfaces and, where possible, cut edges concealed.

4.3 TOLERANCES

A. Dimensions and Locations of Elements:

1. For dimensions in cross section or elevation, do not vary by more than plus 1/2 inch (12 mm) or minus 1/4 inch (6 mm).
2. For location of elements in plan, do not vary from that indicated by more than plus or minus 1/2 inch (12 mm).
3. For location of elements in elevation, do not vary from that indicated by more than plus or minus 1/4 inch (6 mm) in a story height or 1/2 inch (12 mm) total.

B. Lines and Levels:

1. For bed joints and top surfaces of bearing walls, do not vary from level by more than 1/4 inch in 10 feet (6 mm in 3 m), or 1/2-inch (12-mm) maximum.
2. For conspicuous horizontal lines, such as lintels, sills, parapets, and reveals, do not vary from level by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2-inch (12-mm) maximum.
3. For vertical lines and surfaces do not vary from plumb by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2-inch (12-mm) maximum.
4. For conspicuous vertical lines, such as external corners, door jambs, reveals, and expansion and control joints, do not vary from plumb by more than 1/8 inch in 10 feet (3 mm in 3 m), 1/4 inch in 20 feet (6 mm in 6 m), or 1/2-inch (12-mm) maximum.
5. For lines and surfaces, do not vary from straight by more than 1/4 inch in 10 feet (6 mm in 3 m), 3/8 inch in 20 feet (9 mm in 6 m), or 1/2-inch (12-mm) maximum.
6. For vertical alignment of exposed head joints, do not vary from plumb by more than 1/4 inch in 10 feet (6 mm in 3 m), or 1/2-inch (12-mm) maximum.
7. For faces of adjacent exposed masonry units, do not vary from flush alignment by more than 1/16 inch (1.5 mm).

C. Joints:

1. For bed joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm), with a maximum thickness limited to 1/2 inch (12 mm).
2. For exposed bed joints, do not vary from bed-joint thickness of adjacent courses by more than 1/8 inch (3 mm).

3. For head and collar joints, do not vary from thickness indicated by more than plus 3/8 inch (9 mm) or minus 1/4 inch (6 mm).
4. For exposed head joints, do not vary from thickness indicated by more than plus or minus 1/8 inch (3 mm).

4.4 LAYING MASONRY WALLS

A. Lay out walls in advance for accurate spacing of surface bond patterns with uniform joint thicknesses and for accurate location of openings, movement-type joints, returns, and offsets. Avoid using less-than-half-size units, particularly at corners, jambs, and, where possible, at other locations.

B. Bond Pattern for Exposed Masonry: Unless otherwise indicated, lay exposed masonry in running bond; do not use units with less-than-nominal 4-inch (100-mm) horizontal face dimensions at corners or jambs.

C. Lay concealed masonry with all units in a wythe in running bond or bonded by lapping not less than 4 inches (100 mm). Bond and interlock each course of each wythe at corners. Do not use units with less-than-nominal 4-inch (100-mm) horizontal face dimensions at corners or jambs.

D. Stopping and Resuming Work: Stop work by stepping back units in each course from those in course below; do not tooth. When resuming work, clean masonry surfaces that are to receive mortar, remove loose masonry units and mortar, and wet brick if required before laying fresh masonry.

E. Built-in Work: As construction progresses, build in items specified in this and other Sections. Fill in solidly with masonry around built-in items.

F. Fill space between steel frames and masonry solidly with mortar unless otherwise indicated.

G. Where built-in items are to be embedded in cores of hollow masonry units, place a layer of metal lath, wire mesh, or plastic mesh in the joint below, and rod mortar or grout into core.

H. Fill cores in hollow CMUs with grout 24 inches (600 mm) under bearing plates, beams, lintels, posts, and similar items unless otherwise indicated.

4.5 MORTAR BEDDING AND JOINTING

A. Lay hollow CMUs as follows:

1. Bed face shells in mortar and make head joints of depth equal to bed joints.

2. Bed webs in mortar in all courses of piers, columns, and pilasters.
3. Bed webs in mortar in grouted masonry, including starting course on footings.
4. Fully bed entire units, including areas under cells, at starting course on footings where cells are not grouted.

B. Lay solid CMUs with completely filled bed and head joints; butter ends with sufficient mortar to fill head joints and shove into place. Do not deeply furrow bed joints or slush head joints.

C. Rake out mortar joints at pre-faced CMUs to a uniform depth of 1/4 inch (6 mm) and point with epoxy mortar to comply with epoxy-mortar manufacturer's written instructions.

D. Tool exposed joints slightly concave when thumbprint hard, using a jointer larger than joint thickness unless otherwise indicated.

E. Cut joints flush for masonry walls to receive plaster or other direct-applied finishes (other than paint) unless otherwise indicated.

F. Cut joints flush where indicated to receive waterproofing unless otherwise indicated.

4.6 MASONRY-JOINT REINFORCEMENT

A. General: Install entire length of longitudinal side rods in mortar with a minimum cover of 5/8 inch (16 mm) on exterior side of walls, 1/2 inch (13 mm) elsewhere. Lap reinforcement a minimum of 6 inches (150 mm).

1. Space reinforcement not more than 16 inches (406 mm) o.c.
2. Space reinforcement not more than 8 inches (203 mm) o.c. in foundation walls and parapet walls.
3. Provide reinforcement not more than 8 inches (203 mm) above and below wall openings and extending 12 inches (305 mm) beyond openings in addition to continuous reinforcement.

B. Interrupt joint reinforcement at control and expansion joints unless otherwise indicated.

C. Provide continuity at wall intersections by using prefabricated T-shaped units.

D. Provide continuity at corners by using prefabricated L-shaped units.

E. Cut and bend reinforcing units as directed by manufacturer for continuity at corners, returns, offsets, column fireproofing, pipe enclosures, and other special conditions.

4.7 ANCHORING MASONRY TO STRUCTURAL STEEL AND CONCRETE

A. Anchor masonry to structural steel and concrete, where masonry abuts or faces structural steel or concrete, to comply with the following:

1. Provide an open space not less than 1 inch (25 mm) wide between masonry and structural steel or concrete unless otherwise indicated. Keep open space free of mortar and other rigid materials.
2. Anchor masonry with anchors embedded in masonry joints and attached to structure.
3. Space anchors as indicated, but not more than 24 inches (610 mm) o.c. vertically and 36 inches (915 mm) o.c. horizontally.

4.8 CONTROL AND EXPANSION JOINTS

A. General: Install control- and expansion-joint materials in unit masonry as masonry progresses. Do not allow materials to span control and expansion joints without provision to allow for in-plane wall or partition movement.

B. Form control joints in concrete masonry using one of the following methods:

1. Fit bond-breaker strips into hollow contour in ends of CMUs on one side of control joint. Fill resultant core with grout, and rake out joints in exposed faces for application of sealant.
2. Install preformed control-joint gaskets designed to fit standard sash block.
3. Install interlocking units designed for control joints. Install bond-breaker strips at joint. Keep head joints free and clear of mortar, or rake out joint for application of sealant.
4. Install temporary foam-plastic filler in head joints, and remove filler when unit masonry is complete for application of sealant.

4.9 FLASHING

A. General: Install embedded flashing at ledges and other obstructions to downward flow of water in wall where indicated.

B. Install flashing as follows unless otherwise indicated:

1. Prepare masonry surfaces so they are smooth and free from projections that could puncture flashing. Where flashing is within mortar joint, place through-wall flashing on sloping bed of mortar and cover with mortar. Before covering with mortar, seal penetrations in flashing with adhesive, sealant, or tape as recommended by flashing manufacturer.

2. At lintels, extend flashing a minimum of 6 inches (150 mm) into masonry at each end. At heads and sills, extend flashing 6 inches (150 mm) at ends and turn up not less than 2 inches (50 mm) to form end dams.
3. Interlock end joints of ribbed sheet metal flashing by overlapping ribs not less than 1-1/2 inches (38 mm) or as recommended by flashing manufacturer, and seal lap with elastomeric sealant complying with requirements in Section 079200 "Joint Sealants" for application indicated.
4. Install metal drip edges and sealant stops with ribbed sheet metal flashing by interlocking hemmed edges to form hooked seam. Seal seam with elastomeric sealant complying with requirements in Section 079200 "Joint Sealants" for application indicated.
5. Install metal drip edges beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall, and adhere flexible flashing to top of metal drip edge.
6. Install metal flashing termination beneath flexible flashing at exterior face of wall. Stop flexible flashing 1/2 inch (13 mm) back from outside face of wall, and adhere flexible flashing to top of metal flashing termination.
7. Cut flexible flashing off flush with face of wall after masonry wall construction is completed.

C. Install single-wythe CMU flashing system in bed joints of CMU walls where indicated to comply with manufacturer's written instructions. Install CMU cell pans with upturned edges located below face shells and webs of CMUs above and with weep spouts aligned with face of wall. Install CMU web covers so that they cover upturned edges of CMU cell pans at CMU webs and extend from face shell to face shell.

D. Install reglets and nailers for flashing and other related construction where they are shown to be built into masonry.

4.10 REINFORCED UNIT MASONRY INSTALLATION

A. Temporary Formwork and Shores: Construct formwork and shores as needed to support reinforced masonry elements during construction.

1. Construct formwork to provide shape, line, and dimensions of completed masonry as indicated. Make forms sufficiently tight to prevent leakage of mortar and grout. Brace, tie, and support forms to maintain position and shape during construction and curing of reinforced masonry.
2. Do not remove forms and shores until reinforced masonry members have hardened sufficiently to carry their own weight and other loads that may be placed on them during construction.

B. Placing Reinforcement: Comply with requirements in TMS 602.

C. Grouting: Do not place grout until entire height of masonry to be grouted has attained enough strength to resist grout pressure.

1. Comply with requirements in TMS 602 for cleanouts and for grout placement, including minimum grout space, maximum pour height and vibrating grout in cores.
2. Limit height of vertical grout pours to not more than 60 inches (1520 mm).

4.11 FIELD QUALITY CONTROL

A. Testing and Inspecting: Engage special inspectors to perform tests and inspections and prepare reports if necessary. Allow inspectors access to scaffolding and work areas as needed to perform tests and inspections. Retesting of materials that fail to comply with specified requirements shall be done at Contractor's expense.

B. Inspections: Special inspections according to Level 2 in TMS 402.

1. Begin masonry construction only after inspectors have verified proportions of site-prepared mortar.
2. Place grout only after inspectors have verified compliance of grout spaces and of grades, sizes, and locations of reinforcement.
3. Place grout only after inspectors have verified proportions of site-prepared grout.

C. Testing Prior to Construction: One set of tests.

D. Testing Frequency: One set of tests for each 5000 sq. ft. (464 sq. m) of wall area or portion thereof.

E. Concrete Masonry Unit Test: For each type of unit provided, according to ASTM C 140 for compressive strength.

F. Mortar Aggregate Ratio Test (Proportion Specification): For each mix provided, according to "Mortar Test (Property Specification)" Paragraph below may be deleted if mortar is specified to comply with proportion specification or if retaining prism test. Testing for mortar air content is especially desirable for reinforced masonry. Testing for compressive strength is required if the property specification for mortar is used. Note that ASTM C 780 states, "Strength values for mortars obtained through these testing procedures are not required, nor expected, to meet strength requirements of laboratory Specification C 270 mortars."

G. Mortar Test (Property Specification): For each mix provided, according to ASTM C 780. Test mortar for mortar air content and compressive strength

H. Grout Test (Compressive Strength): For each mix provided, according to ASTM C 1019.

I. Prism Test: For each type of construction provided, according to ASTM C 1314 at 7 days and at 28 days.

4.12 PARGING

A. Parge exterior faces of below-grade masonry walls, where indicated, in two uniform coats to a total thickness of 3/4 inch (19 mm). Dampen wall before applying first coat, and scarify first coat to ensure full bond to subsequent coat.

B. Use a steel-trowel finish to produce a smooth, flat, dense surface with a maximum surface variation of 1/8 inch per foot (3 mm per 300 mm). Form a wash at top of parging and a cove at bottom.

C. Damp-cure parging for at least 24 hours and protect parging until cured.

4.13 REPAIRING, POINTING, AND CLEANING

A. Remove and replace masonry units that are loose, chipped, broken, stained, or otherwise damaged or that do not match adjoining units. Install new units to match adjoining units; install in fresh mortar, pointed to eliminate evidence of replacement.

B. Pointing: During the tooling of joints, enlarge voids and holes, except weep holes, and completely fill with mortar. Point up joints, including corners, openings, and adjacent construction, to provide a neat, uniform appearance. Prepare joints for sealant application, where indicated.

C. In-Progress Cleaning: Clean unit masonry as work progresses by dry brushing to remove mortar fins and smears before tooling joints.

D. Final Cleaning: After mortar is thoroughly set and cured, clean exposed masonry as follows:

1. Remove large mortar particles by hand with wooden paddles and nonmetallic scrape hoes or chisels.
2. Protect adjacent stone and nonmasonry surfaces from contact with cleaner by covering them with liquid strippable masking agent or polyethylene film and waterproof masking tape.
3. Wet wall surfaces with water before applying cleaners; remove cleaners promptly by rinsing surfaces thoroughly with clear water.
4. Clean concrete masonry by applicable cleaning methods indicated in NCMA TEK 8-4A.

4.14 MASONRY WASTE DISPOSAL

A. Salvageable Materials: Unless otherwise indicated, excess masonry materials are Contractor's property. At completion of unit masonry work, remove from Project site.

B. Waste Disposal as Fill Material: Dispose of clean masonry waste, including excess or soil-contaminated sand, waste mortar, and broken masonry units, by crushing and mixing with fill material as fill is placed.

1. Crush masonry waste to less than 4 inches (100 mm) in each dimension.
2. Mix masonry waste with at least two parts of specified fill material for each part of masonry waste. Fill material is specified in Section 312000 "Earth Moving."
3. Do not dispose of masonry waste as fill within 18 inches (450 mm) of finished grade.

C. Masonry Waste Recycling: Return broken CMUs not used as fill to manufacturer for recycling.

D. Excess Masonry Waste: Remove excess clean masonry waste that cannot be used as fill, as described above or recycled, and other masonry waste, and legally dispose of off Owner's property.

END OF SECTION 042200

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SECTION 055000 - METAL FABRICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:

1. Steel framing and supports for mechanical and electrical equipment.
2. Steel framing and supports for applications where framing and supports are not specified in other Sections.
3. Loose bearing plates for applications where they are not specified in other Sections.
4. Post-installed Drilled in Anchors in masonry and concrete.

B. Products furnished, but not installed, under this Section include the following:

1. Anchor bolts, steel pipe sleeves, slotted-channel inserts, and wedge-type inserts indicated to be cast into concrete or built into unit masonry.
2. Steel weld plates and angles for casting into concrete for applications where they are not specified in other Sections.

C. Related Requirements:

1. Section 033000 "Cast-in-Place Concrete" for installing steel pipe sleeves, slotted-channel inserts, wedge-type inserts, and other items cast into concrete.
2. Section 042200 "Concrete Unit Masonry" for installing loose lintels and other items built into unit masonry.
3. Section 051200 "Structural Steel Framing."

1.3 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of metal fabrications that are anchored to or that receive other work. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.4 ACTION SUBMITTALS

A. Product Data: For the following:

1. Paint products.
2. Grout.
3. Drilled in anchors in masonry and concrete.

B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide Shop Drawings for the following:

1. Steel framing and supports for mechanical and electrical equipment.
2. Steel framing and supports for applications where framing and supports are not specified in other Sections.

1.5 INFORMATIONAL SUBMITTALS

A. Mill Certificates: Signed by stainless-steel manufacturers, certifying that products furnished comply with requirements, if requested.

B. Welding certificates, if requested.

C. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats, if requested.

D. Research/Evaluation Reports: For post-installed anchors, from ICC-ES.

E. Drilled in anchors in masonry and concrete data: Certified test reports showing compliance with specified performance characteristics and physical properties, ICC ES Evaluation Reports and manufacturer’s installation instructions.

1.6 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."

B. Welding Qualifications: Qualify procedures and personnel according to the following:

1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."

C. Qualifications for Drilled in anchor installation: As follows.

1. Installer Qualifications: Drilled-in anchors shall be installed by a contractor with at least three years of experience performing similar installations.
2. Installer Training: Conduct a thorough training with the manufacturer or the manufacturer’s representative for the Contractor on the project. Training to consist of a review of the complete installation process for drilled-in anchors, to include but not limited to:
   a. Hole drilling procedure.
   b. Hole preparation & cleaning technique.
   c. Adhesive injection technique & dispenser training / maintenance.
   d. Rebar dowel preparation and installation.
   e. Proof loading/torqueing.

3. Certifications: Unless otherwise authorized by the Engineer, anchors shall have an ICC ES Evaluation Report indicating conformance with current applicable ICC ES Acceptance Criteria.

1.7 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls and other construction contiguous with metal fabrications by field measurements before fabrication.

PART 2 - PRODUCTS

2.1 METALS

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

B. Steel Plates, Shapes, and Bars: ASTM A 572, Grade 50.

C. Steel Tubing: ASTM A 500/A 500M, cold-formed steel tubing.

D. Steel Pipe: ASTM A 53/A 53M, Standard Weight (Schedule 40) unless otherwise indicated.

2.2 FASTENERS

A. General: Unless otherwise indicated, provide Type 304 stainless-steel fasteners for exterior use and zinc-plated fasteners with coating complying with ASTM B 633 or ASTM F 1941, Class Fe/Zn 5, at exterior walls. Select fasteners for type, grade, and class required.

1. Provide stainless-steel fasteners for fastening aluminum.
2. Provide stainless-steel fasteners for fastening stainless steel.

B. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 307, Grade A; with hex nuts, ASTM A 563; and, where indicated, flat washers.

C. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A 325, Type 3; with hex nuts, ASTM A 563, Grade C3; and, where indicated, flat washers.

D. Stainless-Steel Bolts and Nuts: Regular hexagon-head annealed stainless-steel bolts, ASTM F 593; with hex nuts, ASTM F 594; and, where indicated, flat washers; Alloy Group 1.

E. Anchor Bolts: ASTM F 1554, Grade 36, of dimensions indicated; with nuts, ASTM A 563; and, where indicated, flat washers.

1. Hot-dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.

F. Anchors, General: Anchors capable of sustaining, without failure, a load equal to six times the load imposed when installed in unit masonry and four times the load imposed when installed in

concrete, as determined by testing according to ASTM E 488/E 488M, conducted by a qualified independent testing agency.

G. Drilled-in Anchors: Provide the following as indicated on the Drawings.

1. Wedge Anchors: Wedge type, torque-controlled, with impact section to prevent thread damage complete with required nuts and washers. Provide anchors with length identification markings conforming to ICC ES AC01 or ICC ES AC193. Type and size as indicated on Drawings.
   a. Interior Use: Provide carbon steel anchors with zinc plating in accordance with ASTM B633, Type III Fe/Zn 5 (SC1).
   b. Exterior Use: Provide stainless steel anchors. Stainless steel anchors shall be AISI Type 304 stainless steel provided with stainless steel nuts and washers of matching alloy group and minimum proof stress equal to or greater than the specified minimum full-size tensile strength of the externally threaded fastener. Stainless steel nuts shall conform to ASTM F594 unless otherwise specified. Avoid installing stainless steel anchors in contact with galvanically dissimilar metals.
   c. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      1) Hilti Kwik Bolt 3, ICC ESR-1385 and ESR-2302.
      2) Hilti Kwik Bolt TZ, ICC ESR-1917 (carbon steel and AISI Type 304 Stainless Steel).
2. Screw Anchors: screw type. Pre-drilling of the hole requires a standard ANSI drill bit with the same diameter as the anchor and installing the anchor will be done with an impact wrench. Provide anchors with a diameter and anchor length marking on the head. Type and size as indicated on Drawings.
   a. Interior Use: Unless otherwise indicated on the Drawings, provide carbon steel anchors with zinc plating equivalent to DIN EN ISO 4042 (8µm min.).
   b. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      1) Hilti Kwik-HUS-EZ, ICC-ESR 3027.
      2) Hilti Kwik-HUS EZ-I, ICC-ESR 3027.
      3) Hilti Kwik-HUS.
3. Cartridge Injection Adhesive Anchors: Threaded steel rod, inserts or reinforcing dowels, complete with nuts, washers, polymer or hybrid mortar adhesive injection system, and manufacturer's installation instructions. Type and size as indicated on Drawings.
   a. Interior Use and **Structural Steel Column Base Plates**: Provide carbon steel threaded rods conforming to ASTM A36, ASTM A 193 Type B7 or ISO 898 Class 5.8 with zinc plating in accordance with ASTM B633, Type III Fe/Zn 5 (SC1).
      1) Provide diameter and embedment indicated on the Drawings.
   b. Exterior Use: Provide stainless steel anchors. Stainless steel anchors shall be AISI Type 304 stainless steel provided with stainless steel nuts and washers of matching alloy group and minimum proof stress equal to or greater than the specified minimum full-size tensile strength of the externally threaded fastener. All nuts shall conform to ASTM F594 unless otherwise specified. Avoid installing stainless steel anchors in contact with galvanically dissimilar metals.
   c. Reinforcing dowels shall be A615 Grade 60
   d. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      1) Threaded steel rods and reinforcing dowels with Euclid Dural Fast Set Gel

2) Hilti HAS threaded rods with HIT-HY 200 Safe Set System using Hilti Hollow Drill Bit and VC 150/300 vacuum System for anchor and rebar anchorage to concrete, ICC ESR-3187.
3) Hilti HIT-Z anchor rods with HIT-HY 200 Safe Set System for anchorage to concrete, ICC ESR-3187.
4) Hilti HAS threaded rods with HIT-RE 500 V3 Safe Set System using Hilti Hollow Drill Bit and VC 150/300 vacuum System for anchor and rebar anchorage to concrete, ICC ESR-3814.

4. Capsule Anchors: Threaded steel rod and reinforcing dowels with 45 degree chisel point, complete with nuts, washers, glass or foil capsule anchor system containing polyvinyl or urethane methacrylate-based resin and accelerator, and manufacturer's installation instructions. Type and size as indicated on Drawings.
   a. Interior Use: Provide chisel-pointed carbon steel rods conforming to ASTM A36, ASTM A 193 Type B7 or ISO 898 Class 5.8 with zinc plating in accordance with ASTM B633, Type III Fe/Zn 5 (SC1).
   b. Exterior Use: Provide chisel-pointed stainless steel anchors. Stainless steel anchors shall be AISI Type 304 stainless steel provided with stainless steel nuts and washers of matching alloy group and minimum proof stress equal to or greater than the specified minimum full-size tensile strength of the externally threaded fastener. All nuts shall conform to ASTM F594 unless otherwise specified. Avoid installing stainless steel anchors in contact with galvanically dissimilar metals.
   c. Reinforcing dowels shall be A615 Grade 60, with 45-degree chisel-points at embedded end.
   d. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to, the following:
      1) Hilti HVA Adhesive System with HVU capsules.

2.3 MISCELLANEOUS MATERIALS

A. Shop Primers: Provide primers that comply with Division 9 Painting specification.

B. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat.

C. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

D. Nonshrink, Nonmetallic Grout: Factory-packaged, nonstaining, noncorrosive, nongaseous grout complying with ASTM C 1107/C 1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

E. Concrete: Comply with requirements in Section 033000 "Cast-in-Place Concrete" for normal-weight, air-entrained, concrete with a minimum 28-day compressive strength of 3000 psi.

2.4 FABRICATION, GENERAL

A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

D. Form exposed work with accurate angles and surfaces and straight edges.

E. Weld corners and seams continuously to comply with the following:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing.

F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.

G. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.

I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

J. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors, 1/8 by 1-1/2 inches, with a minimum 6-inch embedment and 2-inch hook, not less than 8 inches from ends and corners of units and 24 inches o.c., unless otherwise indicated.

2.5 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.

B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.

1. Fabricate units from slotted channel framing where indicated for support of piping, conduit, and mechanical equipment.
2. Furnish inserts for units installed after concrete is placed.

C. Prime miscellaneous framing and supports except where indicated to be galvanized.

D. Prime miscellaneous framing and supports.

2.6 LOOSE BEARING PLATES

A. Provide loose bearing plates for steel items bearing on masonry or concrete construction.

B. Provide welded stud anchors as indicated on the Drawings but provide a minimum of two welded stud anchors per plate. Welded stud anchors are to be ½ inch diameter for 4 inch embedment in concrete unless otherwise indicated on the Drawings.

C. Furnish plates uncoated.

2.7 STEEL WELD PLATES AND ANGLES

A. Provide steel weld plates and angles not specified in other Sections, for items supported from concrete or masonry construction as needed to complete the Work. Provide each unit with no fewer than two ½ inch diameter by 4 inch long welded stud anchors for embedding in concrete.

2.8 FINISHES, GENERAL

A. Finish metal fabrications after assembly.

B. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.9 STEEL AND IRON FINISHES

A. Galvanizing: Hot-dip galvanize items as indicated to comply with ASTM A 153/A 153M for steel and iron hardware and with ASTM A 123/A 123M for other steel and iron products.

1. Do not quench or apply post galvanizing treatments that might interfere with paint adhesion.

B. Preparation for Shop Priming Galvanized Items: After galvanizing, thoroughly clean railings of grease, dirt, oil, flux, and other foreign matter, and treat with metallic phosphate process.

C. Shop prime iron and steel items not indicated to be galvanized unless otherwise indicated.

1. Shop prime with universal shop primer.

D. Preparation for Shop Priming: Prepare surfaces to comply with requirements indicated below:

1. Exterior Items: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
2. Items Indicated to Receive Zinc-Rich Primer: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
3. Items Indicated to Receive Primers Specified in Section 099600 "High-Performance Coatings": SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
4. Other Items: SSPC-SP 3, "Power Tool Cleaning."

E. Shop Priming: Apply shop primer to comply with SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.

1. Stripe paint corners, crevices, bolts, welds, and sharp edges.

PART 3 - EXECUTION

3.1 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

C. Field Welding: Comply with the following requirements:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, and other connectors.

E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

3.2 INSTALLING MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.

B. Anchor supports for low cold-formed metal framed partitions, operable partitions, overhead doors, and overhead grilles securely to, and rigidly brace from, building structure.

3.3 INSTALLING BEARING PLATES

A. Clean concrete and masonry bearing surfaces of bond-reducing materials. Clean bottom surface of plates.

B. Embed welded stud anchors in Portland cement grout and set bearing plates on wedges or shims to proper elevation. After bearing members have been positioned and plumbed, do not remove wedges or shims. If bearing is to remain exposed to view, conceal wedges and shims. Pack non-shrink grout solidly between bearing surfaces and plates to ensure that no voids remain.

3.4 INSTALLING DRILLED-IN ANCHORS

A. Drill holes with rotary impact hammer drills using carbide-tipped bits**,** or hollow drill bit system. Drill bits shall be of diameters as specified by the anchor manufacturer. Unless otherwise shown on the Drawings, all holes shall be drilled perpendicular to the concrete surface.

1. Embedded Items: Identify position of reinforcing steel and other embedded items prior to drilling holes for anchors. Exercise care in coring or drilling to avoid damaging existing reinforcing or embedded items. Notify the Architect if reinforcing steel or other embedded items are encountered during drilling. Take precautions as necessary to avoid damaging prestressing tendons, electrical and telecommunications conduit, and gas lines.
2. Base Material Strength: Unless otherwise specified, do not drill holes in concrete or masonry until concrete, mortar, or grout has reached 7 days strength.
3. Perform anchor installation in accordance with manufacturer instructions.
4. Wedge Anchors, Heavy-Duty Sleeve Anchors, and Undercut Anchors: Protect threads from damage during anchor installation. Heavy-duty sleeve anchors shall be installed with sleeve fully engaged in part to be fastened. Set anchors to manufacturer's recommended torque, using a torque wrench. Following attainment of 10% of the specified torque, 100% of the specified torque shall be reached within 7 or fewer complete turns of the nut. If the specified torque is not achieved within the required number of turns, the anchor shall be removed and replaced unless otherwise directed by the Engineer.
5. Cartridge Injection Adhesive Anchors: Clean all holes per manufacturer instructions to remove loose material and drilling dust prior to installation of adhesive. Inject adhesive into holes proceeding from the bottom of the hole and progressing toward the surface in such a manner as to avoid introduction of air pockets in the adhesive. Follow manufacturer recommendations to ensure proper mixing of adhesive components. Sufficient adhesive shall be injected in the hole to ensure that the annular gap is filled to the surface. Remove excess adhesive from the surface. Shim anchors with suitable device to center the anchor in the hole. Do not disturb or load anchors before manufacturer specified cure time has elapsed.
6. Capsule Anchors: Perform drilling and setting operations in accordance with manufacturer instructions. Clean all holes to remove loose material and drilling dust prior to installation of adhesive. Remove water from drilled holes in such a manner as to achieve a surface dry condition. Capsule anchors shall be installed with equipment conforming to manufacturer recommendations. Do not disturb or load anchors before manufacturer specified cure time has elapsed.
7. Observe manufacturer recommendations with respect to installation temperatures for cartridge injection adhesive anchors and capsule anchors.

B. Repair of Defective Anchors: Remove and replace misplaced or malfunctioning anchors. Fill empty anchor holes and patch failed anchor locations with high-strength non-shrink, nonmetallic grout. Anchors that fail to meet proof load or installation torque requirements shall be regarded as malfunctioning.

C. Field Quality Control and Testing: 10% of each type and size of drilled-in anchor may be proof loaded by the Testing Agency. Adhesive anchors and capsule anchors shall not be torque tested unless otherwise directed by the Engineer. If more than 10% of the tested anchors fail to achieve the specified torque or proof load within the manufacturer specified limits, all anchors of the same diameter and type as the failed anchor shall be tested, unless otherwise instructed by the Engineer.

1. Tension testing shall be performed in accordance with ASTM E488.
2. Torque shall be applied with a calibrated torque wrench.
3. Proof loads shall be applied with a calibrated hydraulic ram. Displacement of adhesive and capsule anchors at proof load shall not exceed D/10, where D is the nominal anchor diameter.
4. Minimum anchor embedments are indicated on the Drawings.

3.5 ADJUSTING AND CLEANING

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.

1. Apply by brush or spray to provide a minimum 2.0-mil dry film thickness.

B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A 780.

END OF SECTION 055000

SECTION 074646 - FIBER-CEMENT SIDING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes fiber-cement siding and soffit

1.2 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For fiber-cement siding and soffit including related accessories.

1.3 INFORMATIONAL SUBMITTALS

A. Product certificates.

B. Product test reports.

C. Research/evaluation reports.

D. Sample warranty.

1.4 CLOSEOUT SUBMITTALS

A. Maintenance data.

1.5 QUALITY ASSURANCE

A. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and to set quality standards for fabrication and installation.

1. Build mockup of typical wall area as shown on Drawings.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.6 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace products that fail in materials or workmanship within specified warranty period.

1. Warranty Period: 50 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 FIBER-CEMENT SIDING

A. General: ASTM C1186, Type A, Grade II, fiber-cement board, noncombustible when tested according to ASTM E136; with a flame-spread index of 25 or less when tested according to ASTM E84.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Allura Fiber Cement Traditional Lap Siding or comparable product by one of the following:

a. American Fiber Cement Corporation.
b. CertainTeed; SAINT-GOBAIN.
c. GAF.
d. James Hardie Building Products, Inc.
e. Nichiha USA, Inc.

B. Labeling: Provide fiber-cement siding that is tested and labeled according to ASTM C1186 by a qualified testing agency acceptable to authorities having jurisdiction.

C. Nominal Thickness: Not less than 5/16 inch

D. Horizontal Pattern: Boards 7-1/4 to 7-1/2 inches wide in plain style.

1. Texture: Wood grain

2. Finish: PPG ColorMax Sterling Gray

2.2 FIBER-CEMENT SOFFIT

A. General: ASTM C1186, Type A, Grade II, fiber-cement board, noncombustible when tested according to ASTM E136; with a flame-spread index of 25 or less when tested according to ASTM E84.

1. Basis-of-Design Product: Subject to compliance with requirements, provide Allura Fiber Cement Traditional Lap Siding or comparable product by one of the following:

a. American Fiber Cement Corporation.
b. CertainTeed; SAINT-GOBAIN.
c. GAF.
d. James Hardie Building Products, Inc.
e. Nichiha USA, Inc.

B. Nominal Thickness: Not less than 5/16 inch.

C. Pattern: 24-inch wide sheets with smooth texture.

D. Finish: RAL 5002

2.3 ACCESSORIES

A. Siding Accessories, General: Provide starter strips, edge trim, outside and inside corner caps, and other items as recommended by siding manufacturer for building configuration.

B. Flashing: Provide aluminum flashing complying with Section 076200 "Sheet Metal Flashing and Trim" at window and door heads and where indicated.

1. Finish for Aluminum Flashing: Factory-prime coating.

C. Fasteners:

1. For fastening to wood, use siding nails of sufficient length to penetrate a minimum of 1 inch into substrate.
2. For fastening to metal, use ribbed bugle-head screws of sufficient length to penetrate a minimum of 1/4 inch, or three screw-threads, into substrate.
3. For fastening fiber cement, use hot-dip galvanized fasteners.

PART 3 - EXECUTION

3.1 INSTALLATION

A. General: Comply with manufacturer's written installation instructions applicable to products and applications indicated unless more stringent requirements apply.

1. Install fasteners no more than 24 inches o.c.

B. Install joint sealants as specified in Section 079200 "Joint Sealants" and to produce a weathertight installation.

3.2 ADJUSTING AND CLEANING

A. Remove damaged, improperly installed, or otherwise defective materials and replace with new materials complying with specified requirements.

B. Clean finished surfaces according to manufacturer's written instructions and maintain in a clean condition during construction.

END OF SECTION 074646

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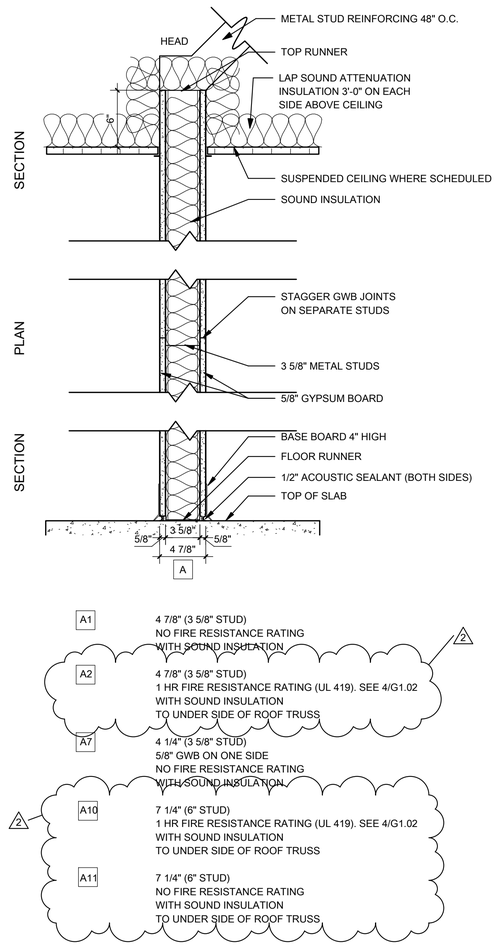
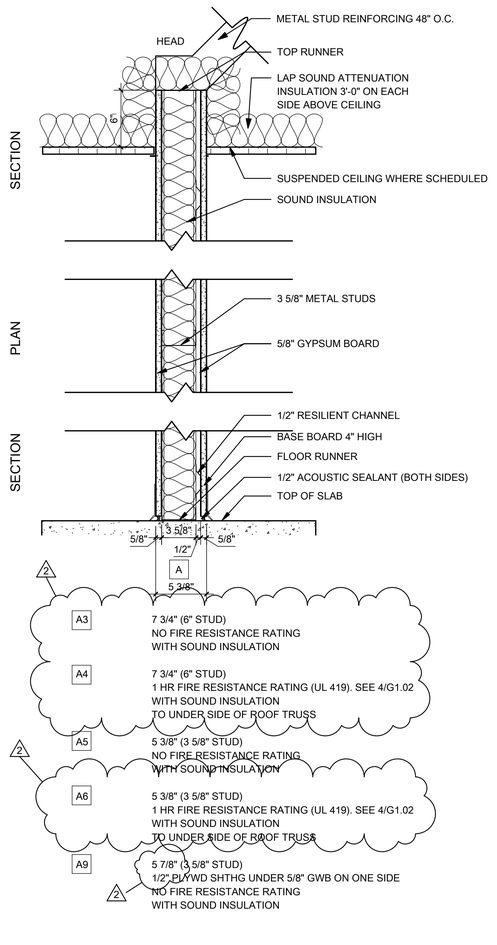


1 G1.02 TYP. WALL PARTITION TYPES
1 1/2" = 1'-0"



4 G1.02 FIRE RATED WALL ASSEMBLY
1 1/2" = 1'-0"

THRASHER
600 WHITE OAKS BLVD.
P.O. BOX 940
BRIDGEPORT, WV 26330
P (304) 624-4108
F (304) 624-7831
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STATE OF WEST VIRGINIA
CASEY C. ALTHOUSE
LIC. NO. 4644
REGISTERED ARCHITECT
2/26/25

NO.	BY	DATE	DESCRIPTION
2		04/10/26	ADDENDUM #2

CAMDEN FAMILY HEALTH - ADMIN OFFICES
CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

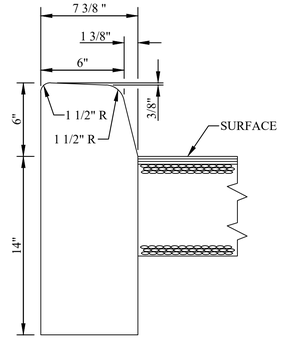
DRAWN: ALB DATE: 02/26/26
CHECKED: CCA DATE: 02/26/26
APPROVED: CCA DATE: 02/26/26

PROJECT No.
T60-11117

PARTITION TYPES

SHEET No.
G1.02

LAYOUT TAB: PARTITION TYPES
CAD FILE: Architect Docs \ CFH Admin Office Building\ADMIN OFFICES - CFH - CENTRAL_V25.rvt
PLOT DATE/TIME: 4/10/2026 9:06:48 AM
USER: ALB



NOTES:

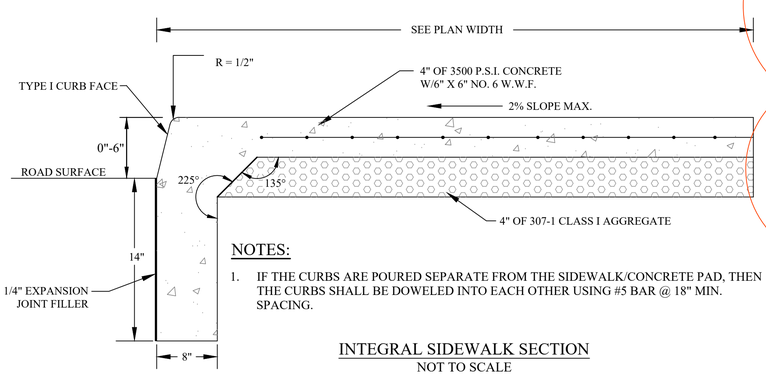
1. THE FACE OF THE CURBING SHALL BE OFFSET A MINIMUM OF TWO FEET FROM THE EDGE OF TRAFFIC LANE, UNLESS OTHERWISE SHOWN ON THE PLANS.
2. CONSTRUCTION OF CONCRETE CURBING SHALL BE BY THE "SEPARATE METHOD" WHEN SAWED JOINTS ARE CONSTRUCTED IN THE PAVEMENT.
3. ALL CURB JOINTS SHALL BE MADE BY ACCEPTABLE FORMING METHODS.
4. THE SLOPE OF THE CONCRETE OR BITUMINOUS SURFACE ABUTTING THE RAISED PORTION OF THE CURB SHALL BE AS SPECIFIED ON THE PLANS.

PLAIN CONCRETE CURBING TYPE I
NOT TO SCALE

PARKING LOT PAVEMENT SECTION
NOT TO SCALE

NOTE:

1. EXPANSION JOINTS SHALL BE ¼" WIDE PREFORMED EXPANSION JOINT FILLER AND SEALED WITH JOINT SEALING MATERIAL AS APPROVED BY OWNER.
2. WHERE CURBS AND SIDEWALKS ARE PLACED AROUND OR ADJACENT TO DRAINAGE STRUCTURES OR OTHER MISCELLANEOUS STRUCTURES, EXPANSION JOINTS SHALL BE CONSTRUCTED BETWEEN SUCH APPURTENANCES AND THE CURB OR SIDEWALK.
3. FINISHING - SIDEWALKS, OUTSIDE EDGES, AND JOINTS SHALL BE EDGED WITH A ½" RADIUS EDGING TOOL. DUMMY JOINTS SHALL BE ⅜" DEEP AND ⅛" WIDE AND SPACED EVERY 5'. SURFACE SHALL HAVE BROOM FINISH. BROOMING SHALL BE TRANSVERSE TO THE LINE OF TRAFFIC.
4. DETECTABLE WARNING SURFACE SHALL BE INSTALLED AS SHOWN IN THE DETAILS.
5. ANY PIPES THAT ARE INSTALLED BENEATH THE SIDEWALK AND/OR CURB SHALL HAVE A CLEARANCE OF MINIMUM OF 6" BETWEEN BOTTOM OF THE LOWEST CONCRETE BOTTOM AND THE TOP OF THE PIPE.



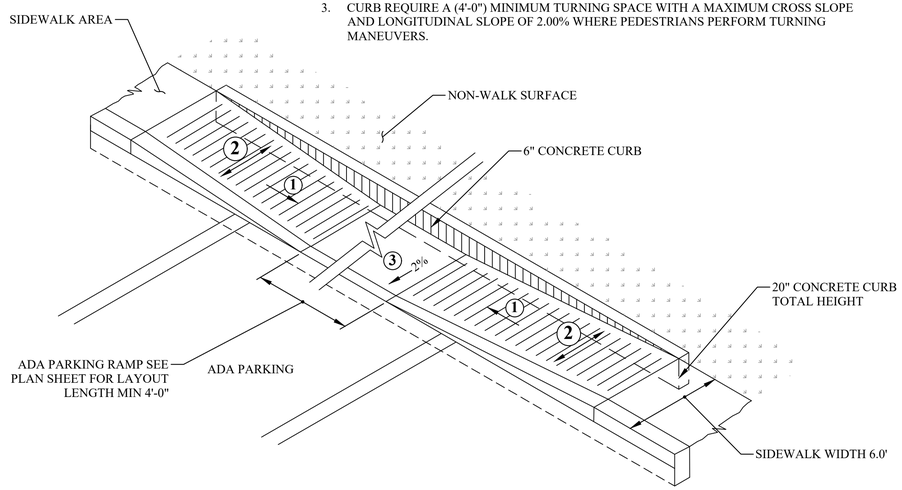
NOTES:

1. IF THE CURBS ARE POURED SEPARATE FROM THE SIDEWALK/CONCRETE PAD, THEN THE CURBS SHALL BE DOWELED INTO EACH OTHER USING #5 BAR @ 18" MIN. SPACING.

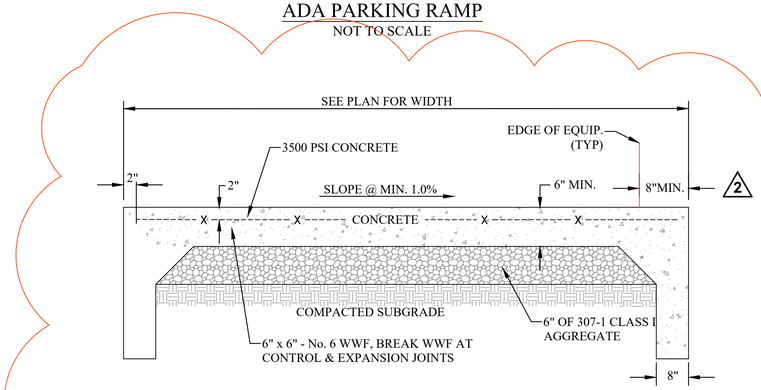
INTEGRAL SIDEWALK SECTION
NOT TO SCALE

NOTES:

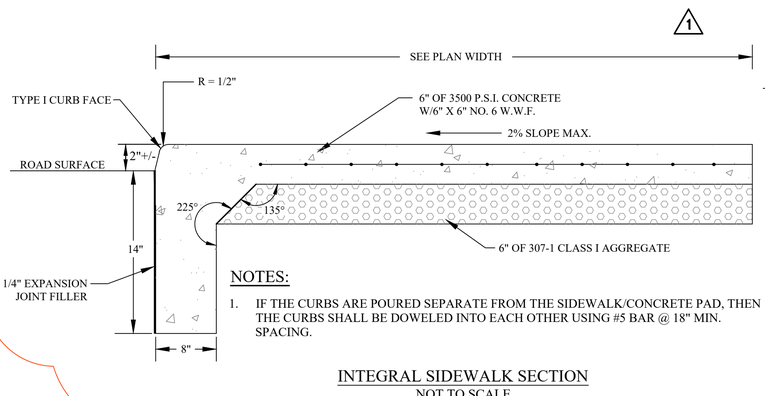
1. 8.33% (12:1) MAX. RAMP SLOPE, INCLUDING CONSTRUCTION TOLERANCE.
2. CROSS SLOPE: 2.00% MAX. INCLUDING CONSTRUCTION TOLERANCE.
3. CURB REQUIRE A (4'-0") MINIMUM TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS.



ADA PARKING RAMP
NOT TO SCALE



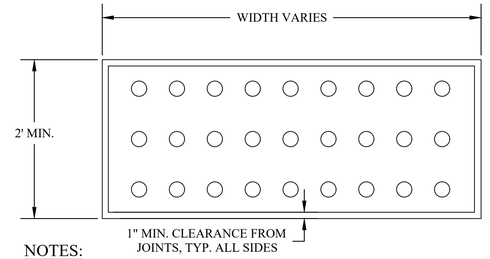
HVAC/GENERATOR PAD DETAIL
NOT TO SCALE



NOTES:

1. IF THE CURBS ARE POURED SEPARATE FROM THE SIDEWALK/CONCRETE PAD, THEN THE CURBS SHALL BE DOWELED INTO EACH OTHER USING #5 BAR @ 18" MIN. SPACING.

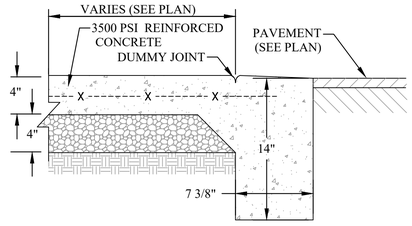
INTEGRAL SIDEWALK SECTION
NOT TO SCALE



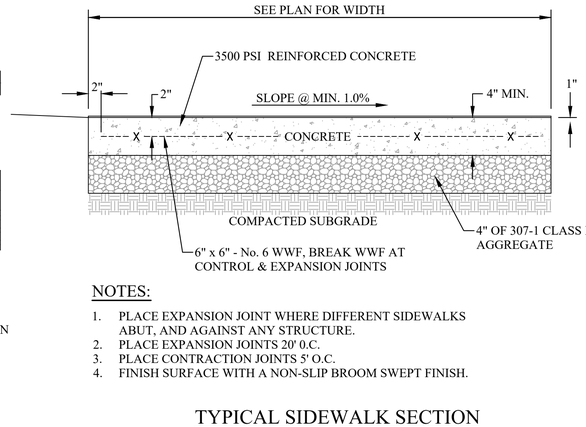
NOTES:

1. THE APPROPRIATE DETAILS AND NOTES OF STANDARD WVDOT SHEET PVT 7, SHEETS 1 AND 2 SHALL APPLY TO THIS STANDARD DETAIL.
2. DETECTABLE WARNING SURFACES SHALL EXTEND ACROSS THE FULL WIDTH OF THE CURB RAMP, LANDING, OR TRANSITION.
3. DOMES SHALL BE ALIGNED IN THE PREDOMINANT DIRECTION OF THE CURB RAMP.
4. DESIGN AND PLACEMENT OF DETECTABLE WARNING SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION 609 OF THE SPECIFICATIONS AND THE PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG).

DETECTABLE WARNING SURFACE
NOT TO SCALE



FLUSH CURB & SIDEWALK



NOTES:

1. PLACE EXPANSION JOINT WHERE DIFFERENT SIDEWALKS ABUT, AND AGAINST ANY STRUCTURE.
2. PLACE EXPANSION JOINTS 20' O.C.
3. PLACE CONTRACTION JOINTS 5' O.C.
4. FINISH SURFACE WITH A NON-SLIP BROOM SWEPT FINISH.

TYPICAL SIDEWALK SECTION
NOT TO SCALE

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JEFFREY L. GOLA
REGISTERED
15621
STATE OF
WEST VIRGINIA
PROFESSIONAL ENGINEER
2/12/26

NO.	BY	DATE	DESCRIPTION
2	JG	4-9-26	ADDENDUM #2 – ADDED DETAIL FOR EQUIP. PADS
1	JG	4-1-16	ADDENDUM #1 – DETAIL REVISIONS/DELETIONS

ADMINISTRATION OFFICE
CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

DRAWN: DATE:
CHECKED: DATE:
APPROVED: DATE:
PROJECT No.
T60-11117

DETAILS

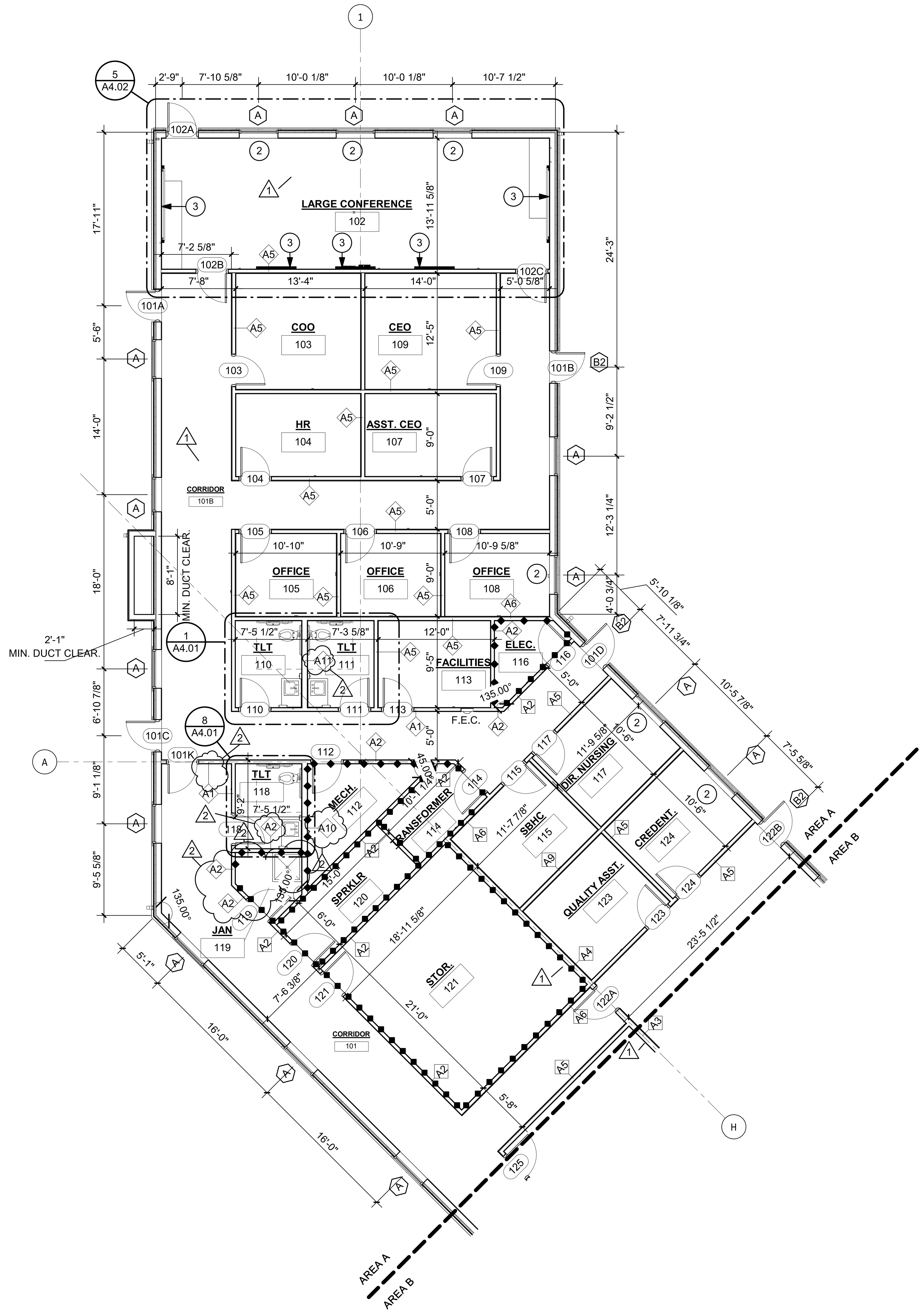
SHEET No.
C3.02

GENERAL NOTES:

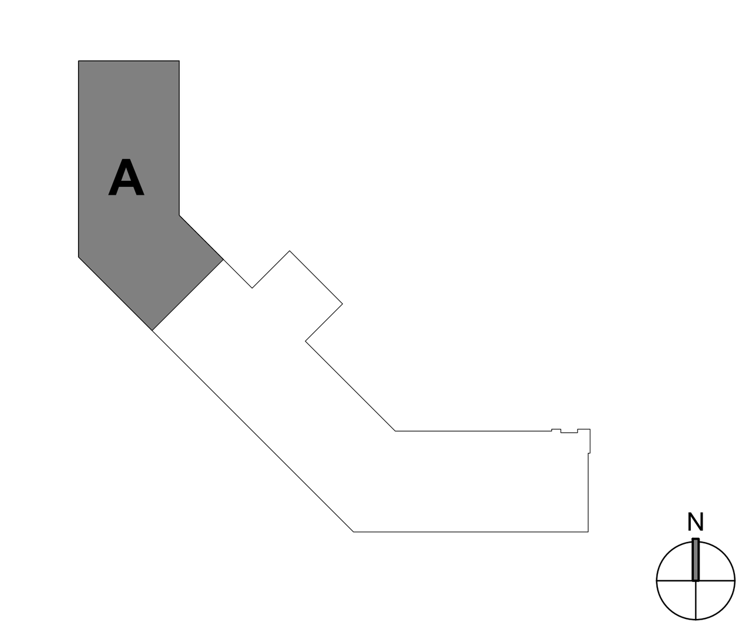
1. CONTRACTOR TO COORDINATE OVERALL DIMENSIONS SHOWN WITH OTHER PLANS.
2. INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF WALL.
3. THE HINGE SIDE OF INTERIOR DOOR FRAMES ARE LOCATED 4" FROM FACE OF ADJACENT STEEL STUD WALLS AND 6" FROM FACE OF ADJACENT EXTERIOR WALLS UNLESS OTHERWISE NOTED.
4. PROVIDE FIRE-TREATED WOOD BLOCKING IN CAVITY OF STEEL STUD PARTITIONS FOR WALL-MOUNTED ITEMS.
5. SLOPE FLOOR TO FLOOR DRAINS IN TLT.
6. FINISH FLOOR MATERIAL TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOOR.
7. REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND INTERIOR DRAWINGS FOR ADDITIONAL INFORMATION.
8. ALL PARTITION SURFACES WITH PLUMBING EQUIPMENT ADJACENT SHALL RECEIVE MOISTURE-RESISTANT GYPSUM BOARD.
9. FOR PARTITION TYPE INFORMATION, SEE SHEET G1.02.
10. FIRST FLOOR ELEVATION SHALL BE NOTED 0'-0". ACTUAL FINISH FLOOR SHALL BE 1869.5 FEET ABOVE SEA LEVEL. SEE CIVIL DRAWINGS.

ENLARGED FLOOR PLAN KEYNOTES

NOTE NUMBER	DESCRIPTION
1	LINE OF CANOPY ABOVE - SEE SECTIONS AND REFLECTED CEILING PLAN
2	PROVIDE ROLLER SHADES AT NOTED WINDOWS.
3	DECORATIVE WALL FINISH. SEE DETAILS A4.02.



1 ENLARGED AREA A FLOOR PLAN
A1.02
1/8" = 1'-0"



KEY PLAN AREA A
NTS

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STATE OF WEST VIRGINIA · CASEY C. ... NO. 4644 · REGISTERED ARCHITECT
2/26/25

NO.	BY	DATE	DESCRIPTION
1		04/01/26	ADDENDUM #1
2		04/10/26	ADDENDUM #2

CAMDEN FAMILY HEALTH - ADMIN OFFICES
CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

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PROJECT No.
T60-11117

ENLARGED AREA A FLOOR PLAN

SHEET No.
A1.02

LAYOUT TAB: ENLARGED AREA A FLOOR PLAN
CAD FILE: Autodesk Docs://CFH Admin Office Building/ADMIN OFFICES - CFH - CENTRAL_V25.rvt
PLOT DATE/TIME: 4/10/2026 9:06:13 AM
USER: ALB

GENERAL NOTES:

1. CONTRACTOR TO COORDINATE OVERALL DIMENSIONS SHOWN WITH OTHER PLANS.
2. INTERIOR PARTITIONS ARE DIMENSIONED TO FACE OF WALL.
3. THE HINGE SIDE OF INTERIOR DOOR FRAMES ARE LOCATED 4" FROM FACE OF ADJACENT STEEL STUD WALLS AND 6" FROM FACE OF ADJACENT EXTERIOR WALLS UNLESS OTHERWISE NOTED.
4. PROVIDE FIRE-TREATED WOOD BLOCKING IN CAVITY OF STEEL STUD PARTITIONS FOR WALL-MOUNTED ITEMS.
5. SLOPE FLOOR TO FLOOR DRAINS IN TLT.
6. FINISH FLOOR MATERIAL TRANSITIONS SHALL OCCUR AT CENTERLINE OF DOOR.
7. REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND INTERIOR DRAWINGS FOR ADDITIONAL INFORMATION.
8. ALL PARTITION SURFACES WITH PLUMBING EQUIPMENT ADJACENT SHALL RECEIVE MOISTURE-RESISTANT GYPSUM BOARD.
9. FOR PARTITION TYPE INFORMATION, SEE SHEET G1.02.
10. FIRST FLOOR ELEVATION SHALL BE NOTED 0'-0". ACTUAL FINISH FLOOR SHALL BE 1869.5 FEET ABOVE SEA LEVEL. SEE CIVIL DRAWINGS.

ENLARGED FLOOR PLAN KEYNOTES

NOTE NUMBER	DESCRIPTION
1	LINE OF CANOPY ABOVE - SEE SECTIONS AND REFLECTED CEILING PLAN
2	PROVIDE ROLLER SHADES AT NOTED WINDOWS.
3	DECORATIVE WALL FINISH. SEE DETAILS A4.02.

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STATE OF WEST VIRGINIA
CASEY C. ALTHOUSE
LIC. NO. 4644
REGISTERED ARCHITECT
2/26/25

NO.	BY	DATE	DESCRIPTION
1		04/01/26	ADDENDUM #1
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CAMDEN FAMILY HEALTH - ADMIN OFFICES
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SUMMERSVILLE, WV
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ENLARGED AREA B FLOOR PLAN

SHEET No.
A1.03

1 / A1.03 ENLARGED AREA B FLOOR PLAN
1/8" = 1'-0"

KEY PLAN AREA B
NTS

LAYOUT TAB: ENLARGED AREA B FLOOR PLAN
CAD FILE: Autodesk Docs://CFH Admin Building/ADMIN OFFICES_CFH_CENTRAL_V25.rvt
PLOT DATE/TIME: 4/10/2026 9:06:22 AM
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RCP KEYNOTES	
NOTE NUMBER	DESCRIPTION
1	24" ALUM VENTED SOFFIT
2	ALUM CEILING

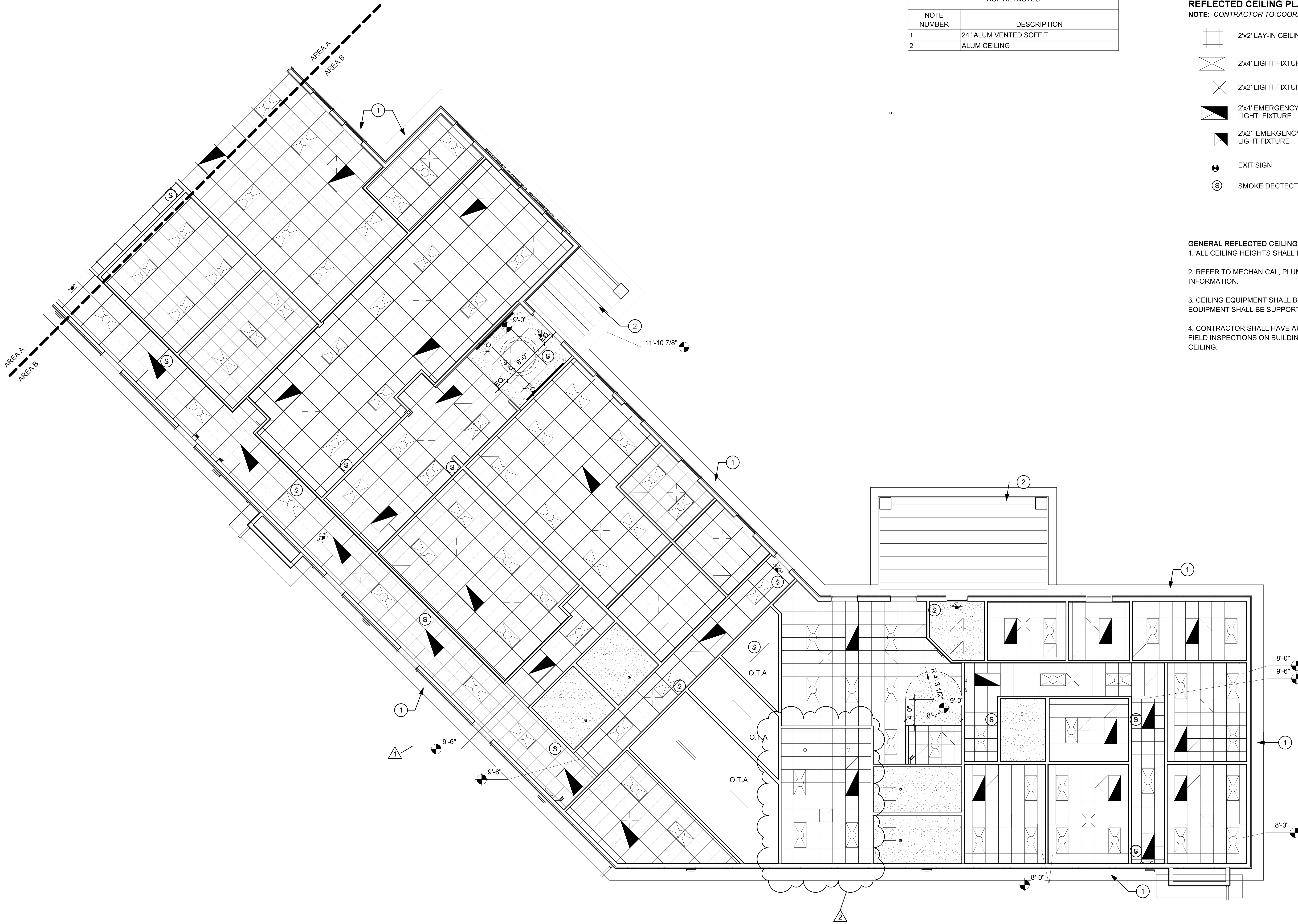
REFLECTED CEILING PLAN LEGEND

NOTE: *CONTRACTOR TO COORDINATE RCP BETWEEN ARCHITECTURAL AND MEP DRAWINGS*

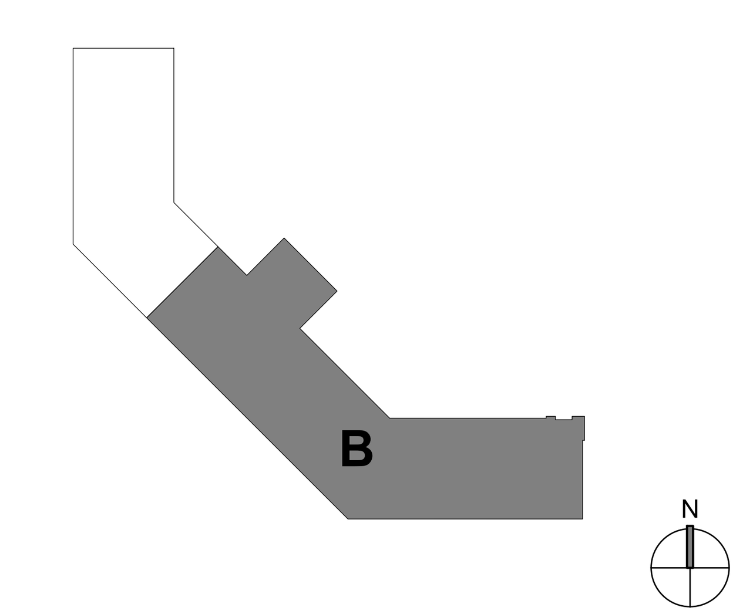
- 2'x2' LAY-IN CEILING TILE
- 2'x4' LIGHT FIXTURE
- 2'x2' LIGHT FIXTURE
- 2'x4' EMERGENCY LIGHT FIXTURE
- 2'x2' EMERGENCY LIGHT FIXTURE
- EXIT SIGN
- SMOKE DECTECTOR
- GYPSUM BOARD CEILING
- DIFFUSERS
- RETURN GRILL
- EXHAUST GRILL
- BULK HEAD
- WALLS BELOW
- RECESSED DOWN LIGHT
- STRIP LIGHT
- O.T.A. OPEN TO ABOVE

GENERAL REFLECTED CEILING PLAN NOTES:

1. ALL CEILING HEIGHTS SHALL BE 10'-0" A.F.F. UNLESS OTHERWISE NOTED.
2. REFER TO MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. CEILING EQUIPMENT SHALL BE POSITIVELY ATTACHED TO STRUCTURE. NO CEILING EQUIPMENT SHALL BE SUPPORTED FROM PLUMBING OR OTHER EQUIPMENT.
4. CONTRACTOR SHALL HAVE AUTHORITY HAVING JURISDICTION PERFORM ALL REQUIRED FIELD INSPECTIONS ON BUILDING SYSTEMS PRIOR TO COMPLETING INSTALLATION OF FINISH CEILING.



1 ENLARGED AREA B RCP
A1.13 1/8" = 1'-0"



KEY PLAN AREA B
1" = 80'-0"

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2/26/25

NO.	BY	DATE	DESCRIPTION
1		04/01/26	ADDENDUM #1
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CAMDEN FAMILY HEALTH - ADMIN OFFICES

CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
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T60-11117

ENLARGED AREA B RCP

SHEET No.
A1.13

LAYOUT TAB: ENLARGED AREA B RCP
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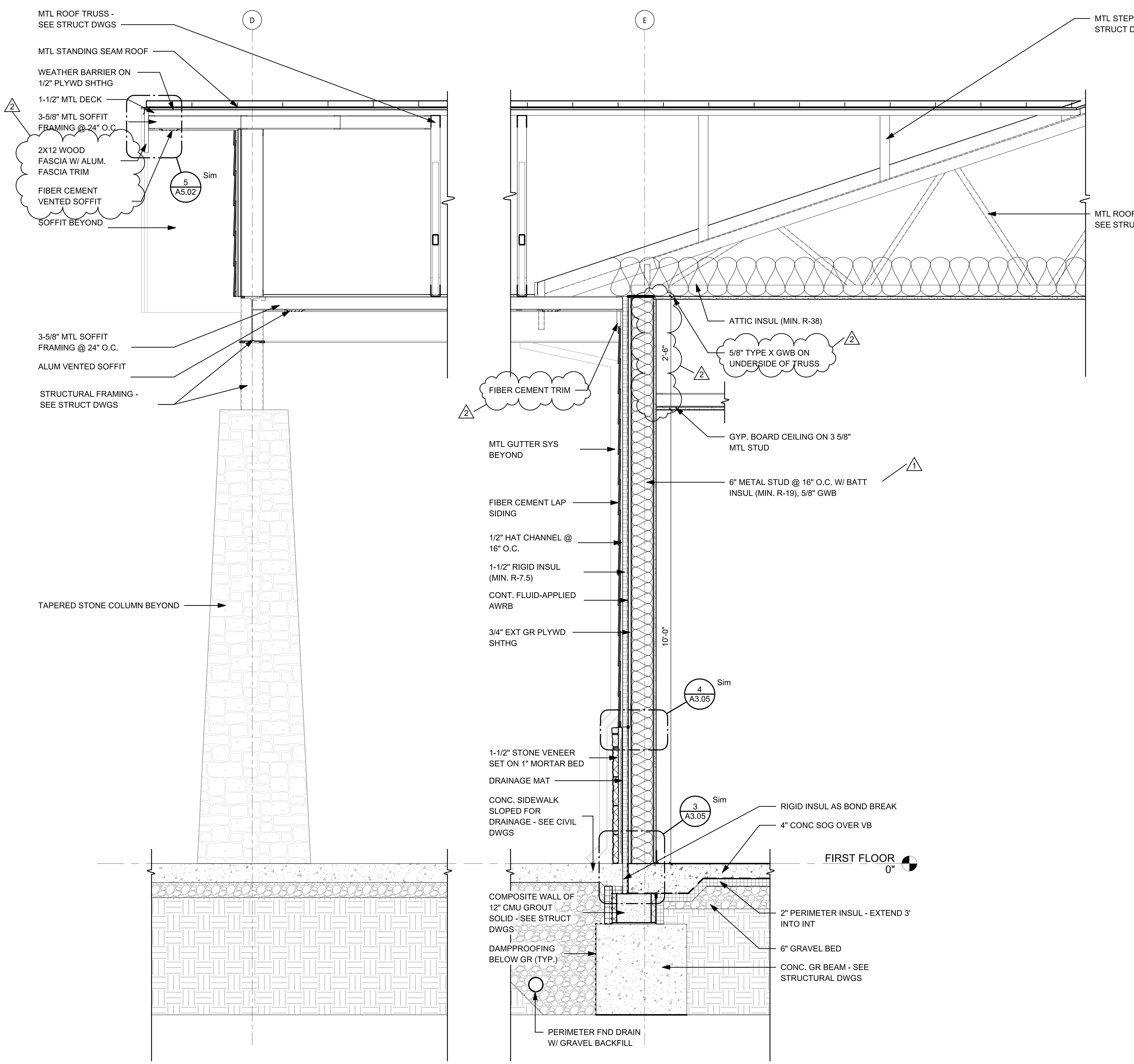
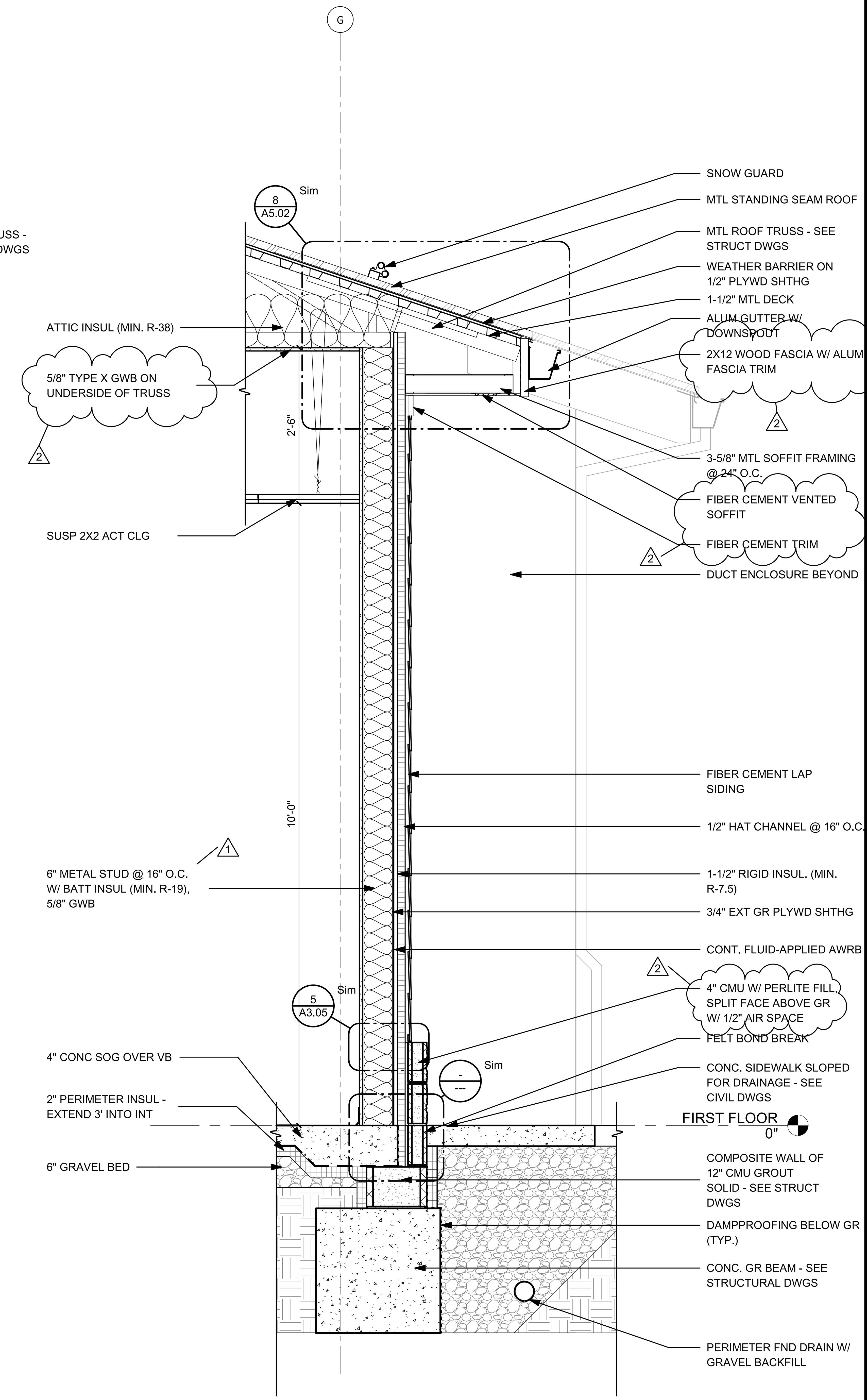


1 A3.02 WALL SECTION
3/4" = 1'-0"



2 A3.02 WALL SECTION
3/4" = 1'-0"

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STATE OF WEST VIRGINIA CASEY C. ATKINS NO. 4644 REGISTERED ARCHITECT
2/26/25

NO.	BY	DATE	DESCRIPTION
1		04/01/26	ADDENDUM #1
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CAMDEN FAMILY HEALTH - ADMIN OFFICES
CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
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PROJECT No.
T60-11117

WALL SECTIONS

SHEET No.
A3.02

LAYOUT TAB: WALL SECTIONS
CAD FILE: Autodesk Docs://CFH Admin Office Building/ADMIN OFFICES - CFH - CENTRAL_V25.rvt
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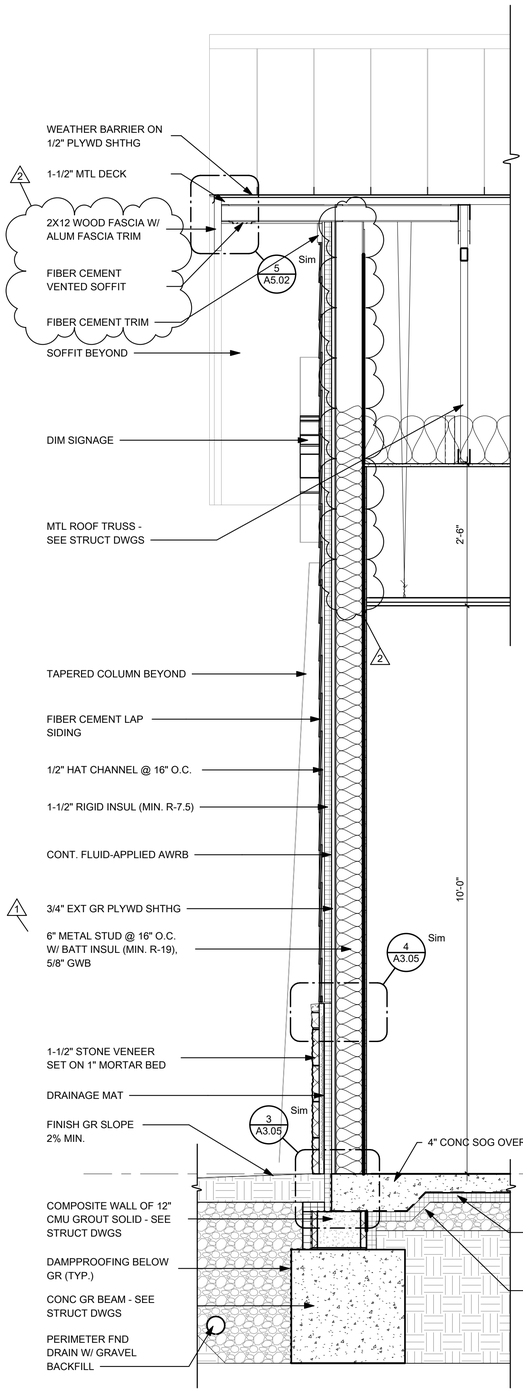
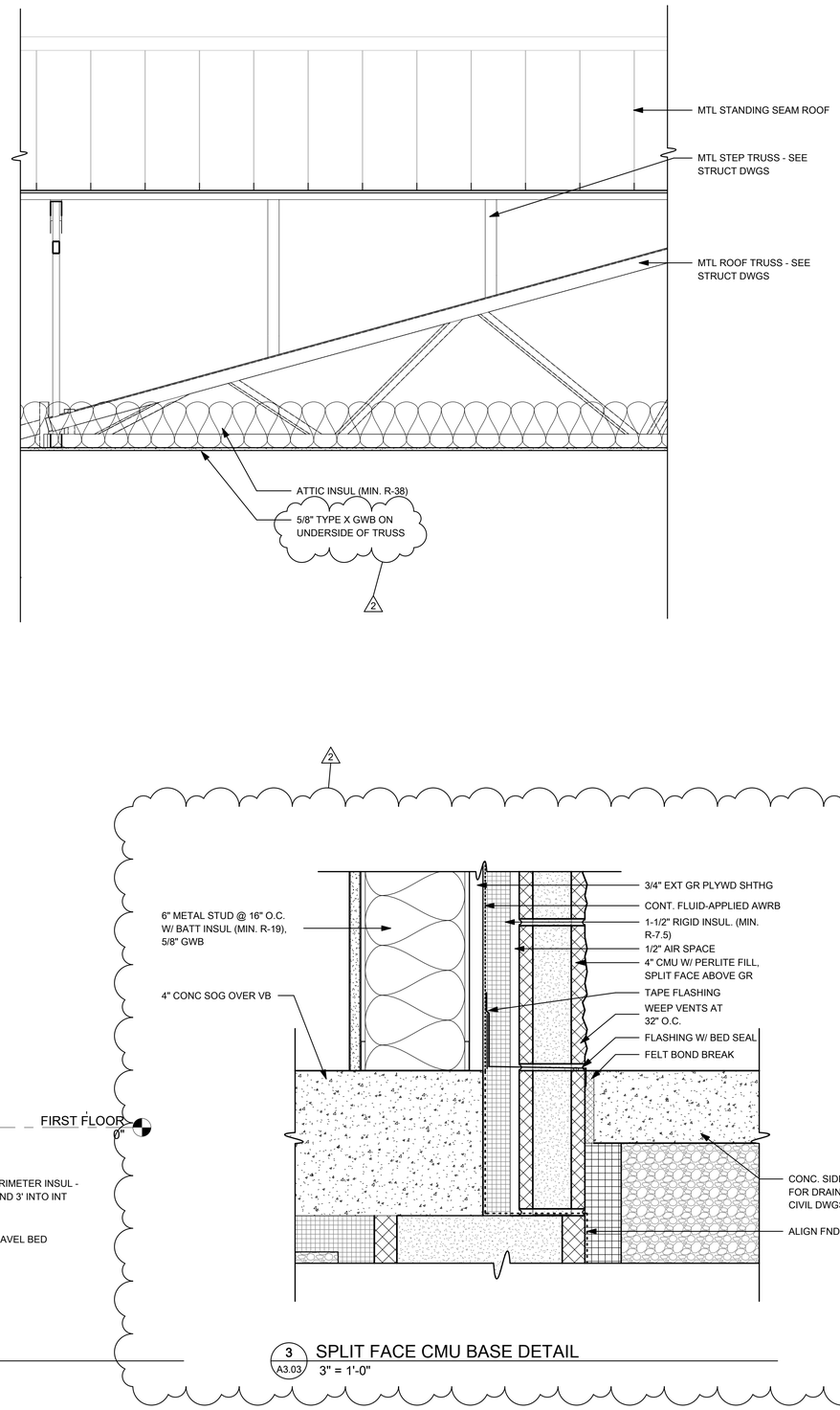
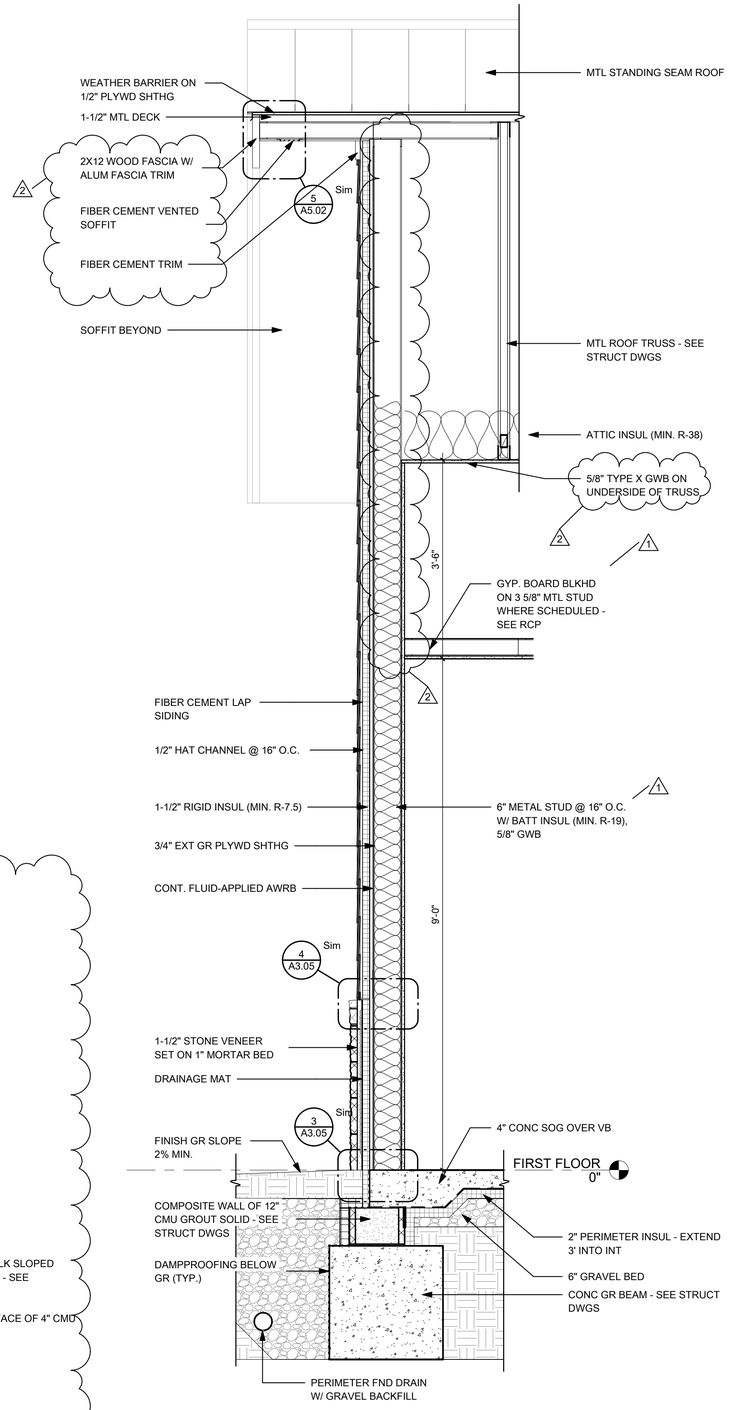


1 A3.03 WALL SECTION
3/4" = 1'-0"



3 A3.03 SPLIT FACE CMU BASE DETAIL
3" = 1'-0"



2 A3.03 WALL SECTION
3/4" = 1'-0"

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STATE OF WEST VIRGINIA
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PROJECT No.
T60-11117

WALL SECTIONS

SHEET No.
A3.03

LAYOUT TAB: WALL SECTIONS
CAD FILE: Autodesk Docs://CFH Admin Office Building/ADMIN OFFICES - CFH - CENTRAL 1125.rvt
PLOT DATE/TIME: 4/10/2026 9:02:02 AM
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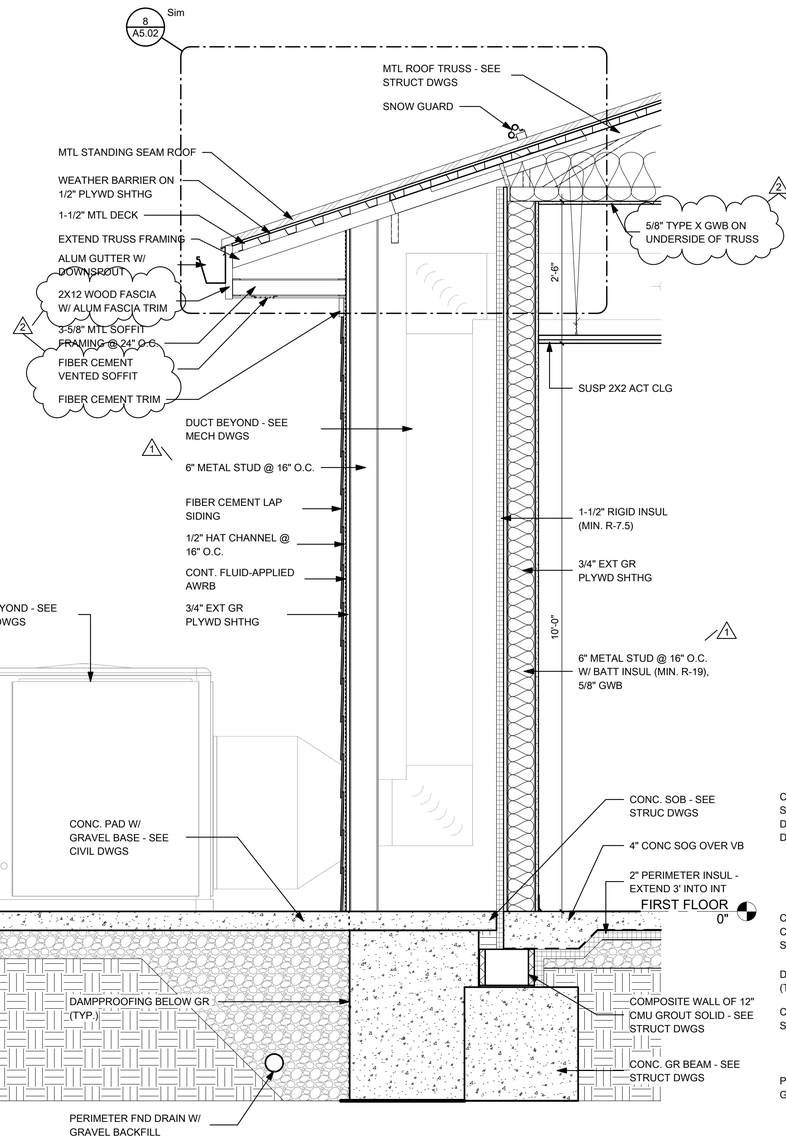

1 A3.04 WALL SECTION
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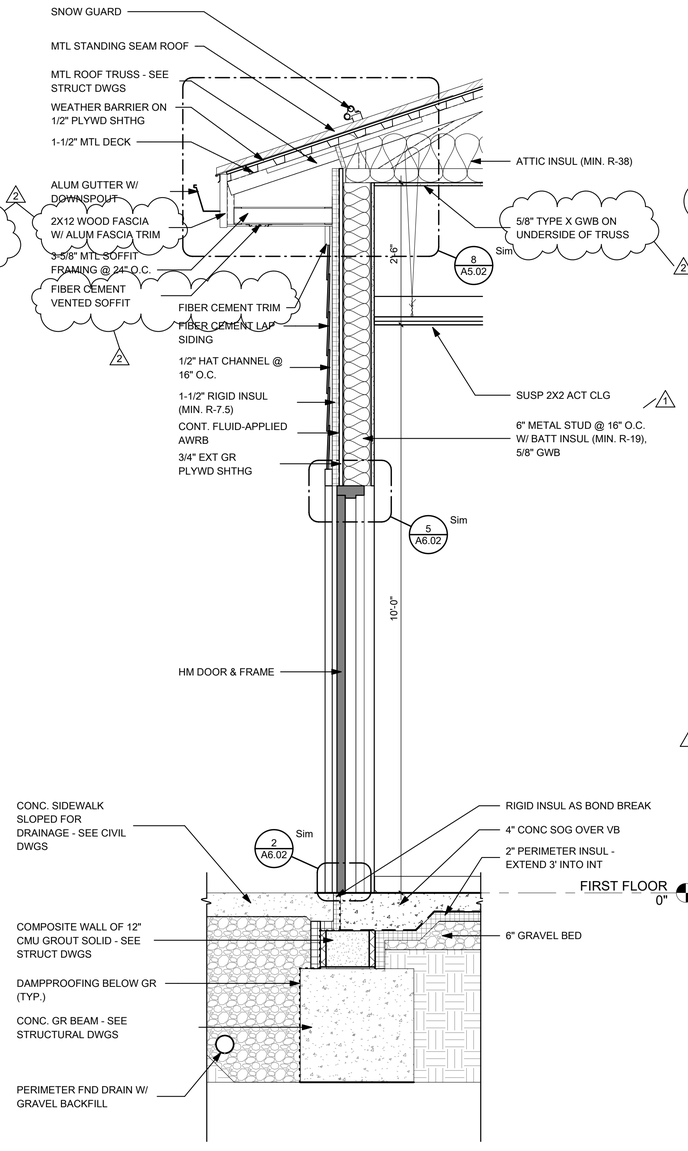
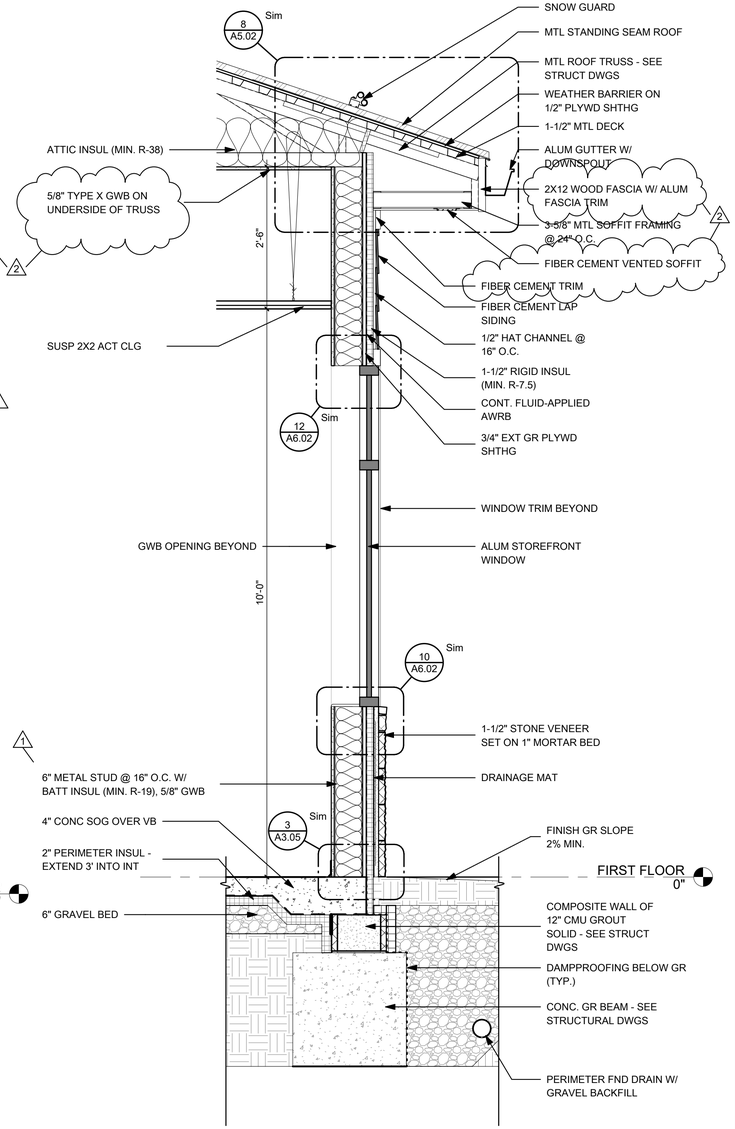


2 A3.04 WALL SECTION
3/4" = 1'-0"



3 A3.04 WALL SECTION
3/4" = 1'-0"

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STATE OF WEST VIRGINIA
CASEY C. ALTHOUSE
REG. NO. 4644
REGISTERED ARCHITECT
2/26/25

NO.	DESCRIPTION	DATE	BY
1	ADDENDUM #1	04/01/26	
2	ADDENDUM #2	04/10/26	

CAMDEN FAMILY HEALTH - ADMIN OFFICES
CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

DRAWN: ALB DATE: 02/26/26
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APPROVED: CCA DATE: 02/26/26

PROJECT No.
T60-11117

WALL SECTIONS

SHEET No.
A3.04

USER: ALB
PLOT DATE/TIME: 4/10/2026 8:58:34 AM
LAYOUT TAB: WALL SECTIONS
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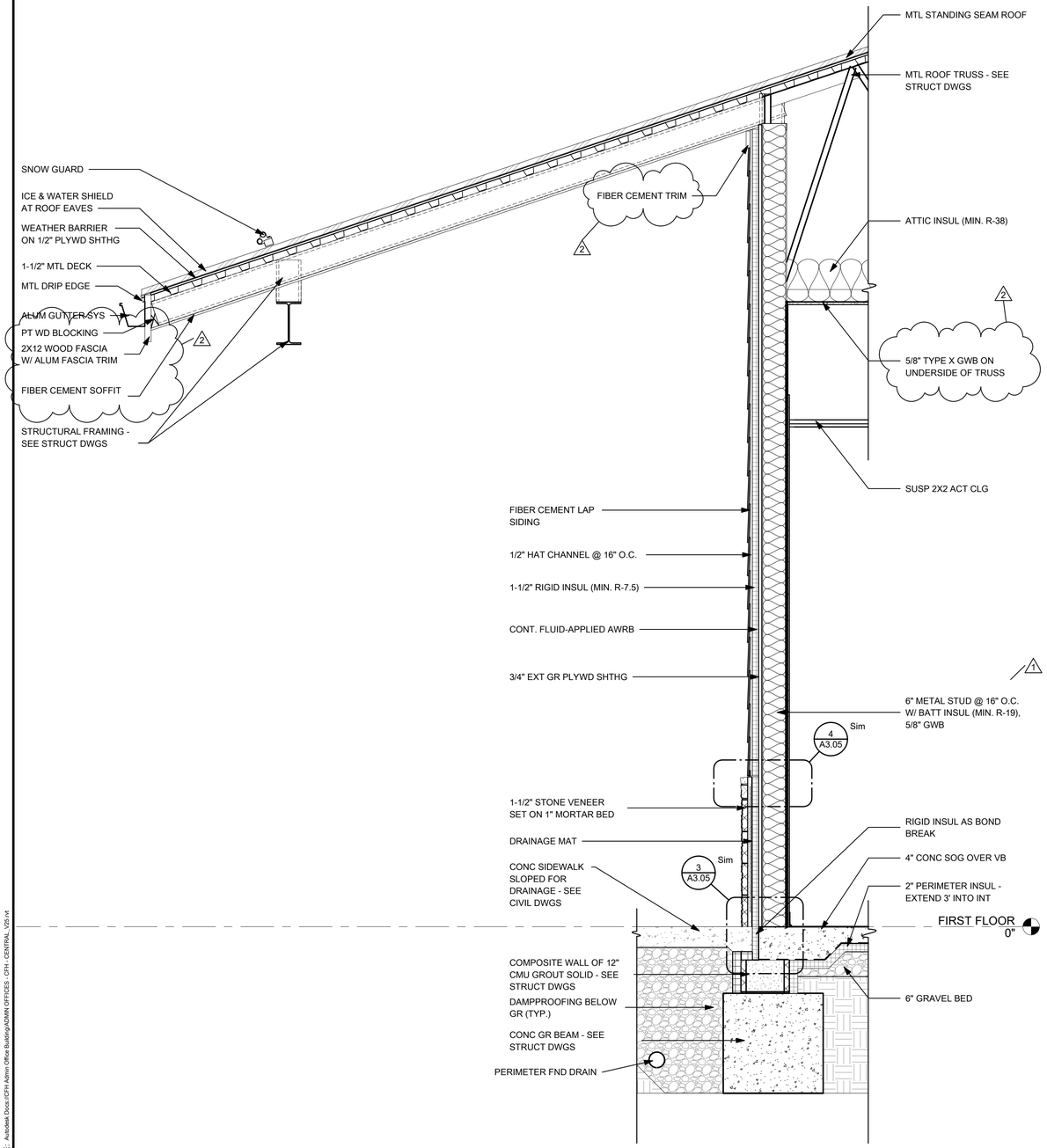

1 A3.05 WALL SECTION
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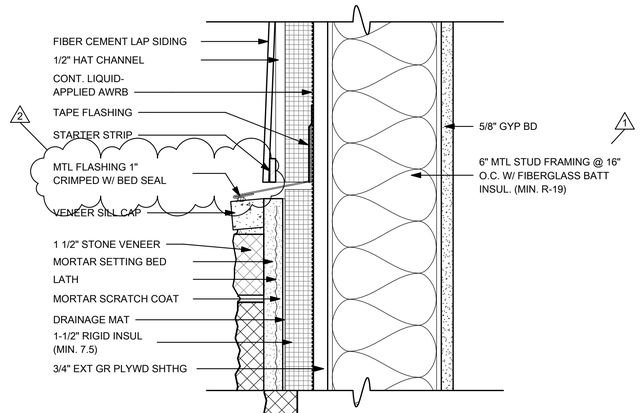
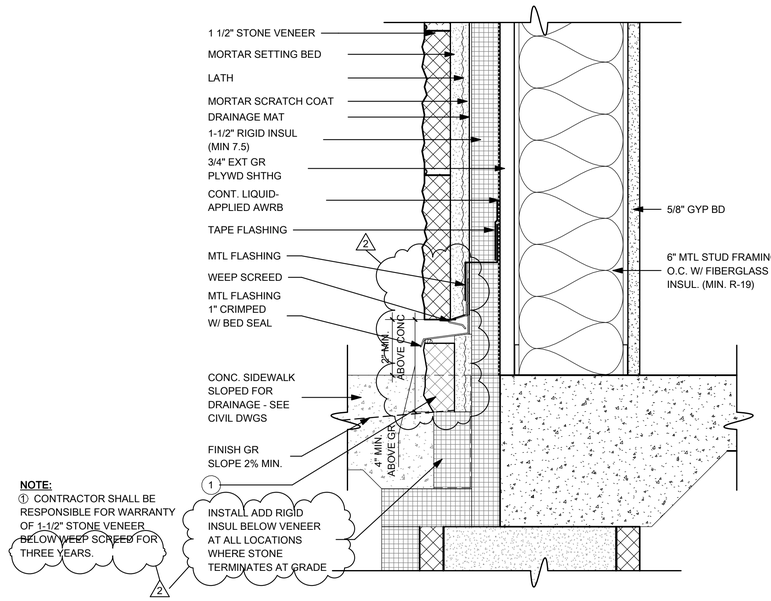
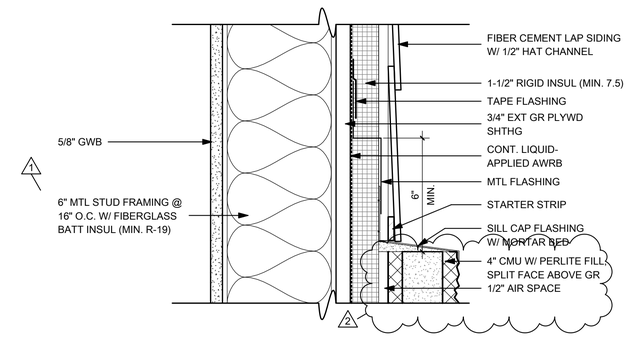


4 A3.05 SIDING TO STONE TRANSITION
3" = 1'-0"



3 A3.05 STONE TRANSITION
3" = 1'-0"



5 A3.05 SIDING TRANSITION TO SPLIT FACE
3" = 1'-0"

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STATE OF WEST VIRGINIA
CASEY C. ALTHOUSE
LIC. NO. 4644
REGISTERED ARCHITECT
2/26/25

NO.	BY	DATE	DESCRIPTION
1		04/01/26	ADDENDUM #1
2		04/10/26	ADDENDUM #2

CAMDEN FAMILY HEALTH - ADMIN OFFICES
CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

DRAWN: ALB DATE: 02/26/26
CHECKED: CCA DATE: 02/26/26
APPROVED: CCA DATE: 02/26/26

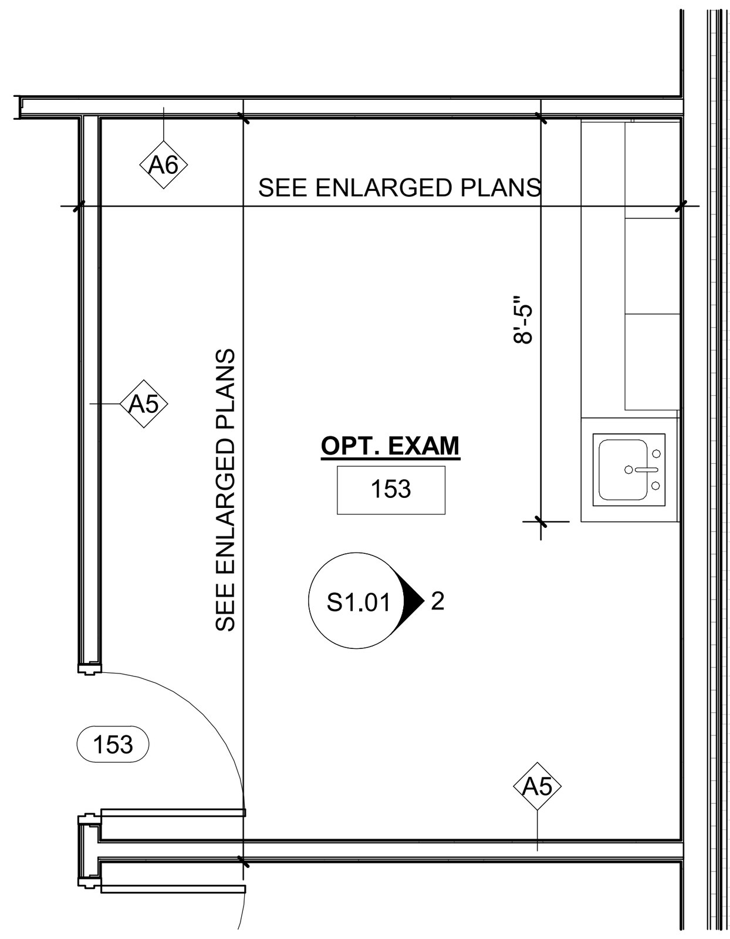
PROJECT No.
T60-11117

WALL SECTIONS & DETAILS

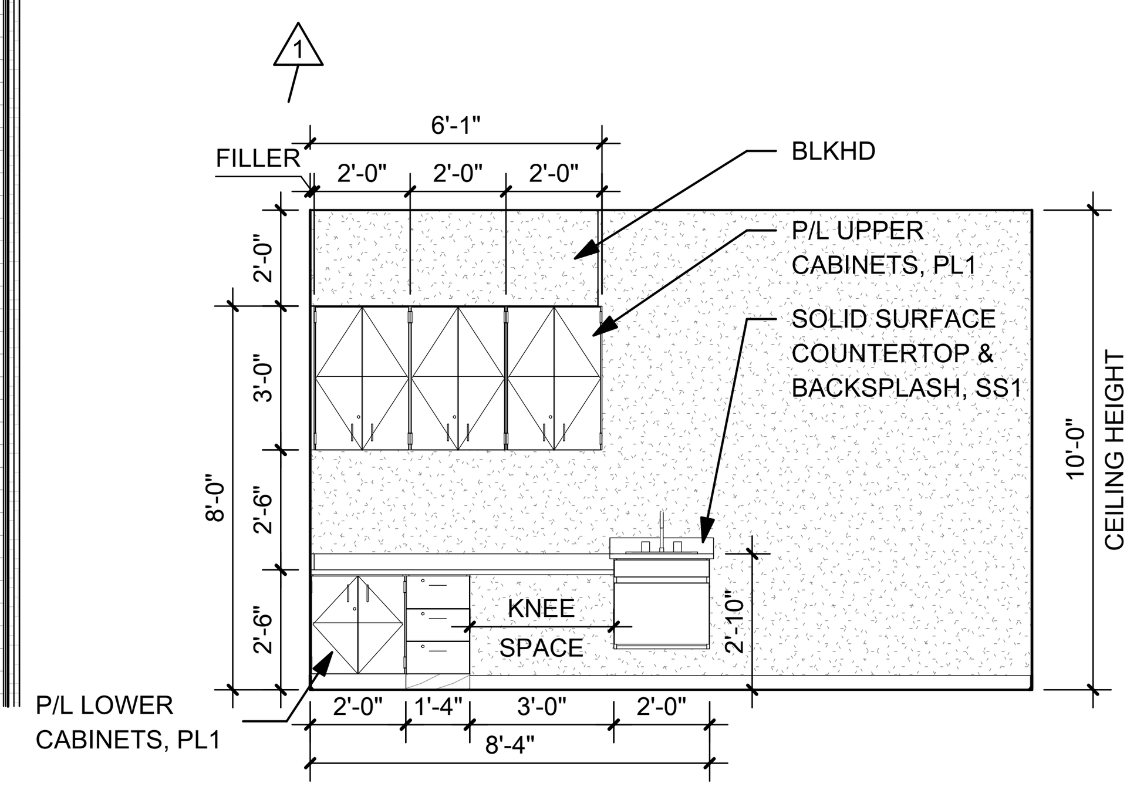
SHEET No.
A3.05

LAYOUT TAB: WALL SECTIONS & DETAILS
CAD FILE: Autodesk Docs://CFH Admin Office Building/ADMIN OFFICES - CFH - CENTRAL_V26.rvt
PLOT DATE/TIME: 4/10/2026 8:58:55 AM
USER: ALB

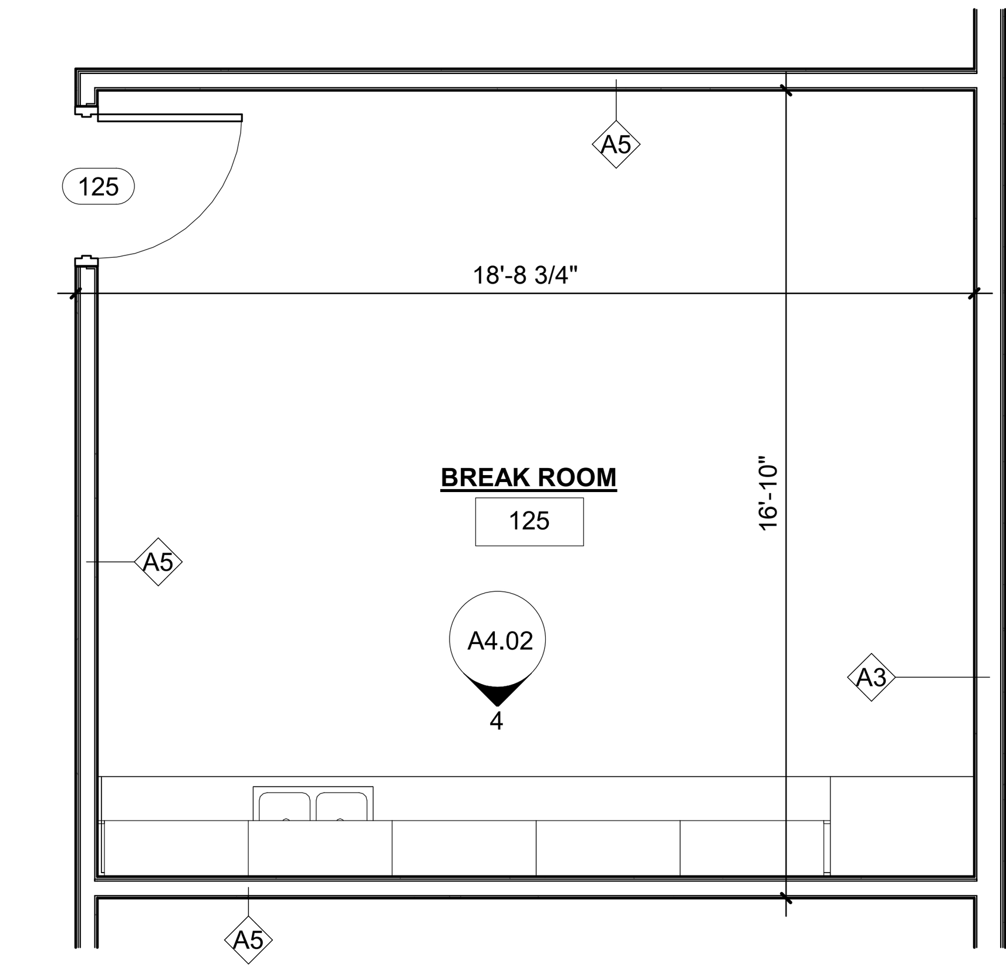
INTERIOR ELEVATION KEYNOTES	
NOTE NUMBER	DESCRIPTION
REF	REFRIGERATOR. OFOI. SEE ELEC DWGS FOR POWER.
TV	TELEVISION. OFOI. SEE ELEC DWGS FOR POWER & DATA.



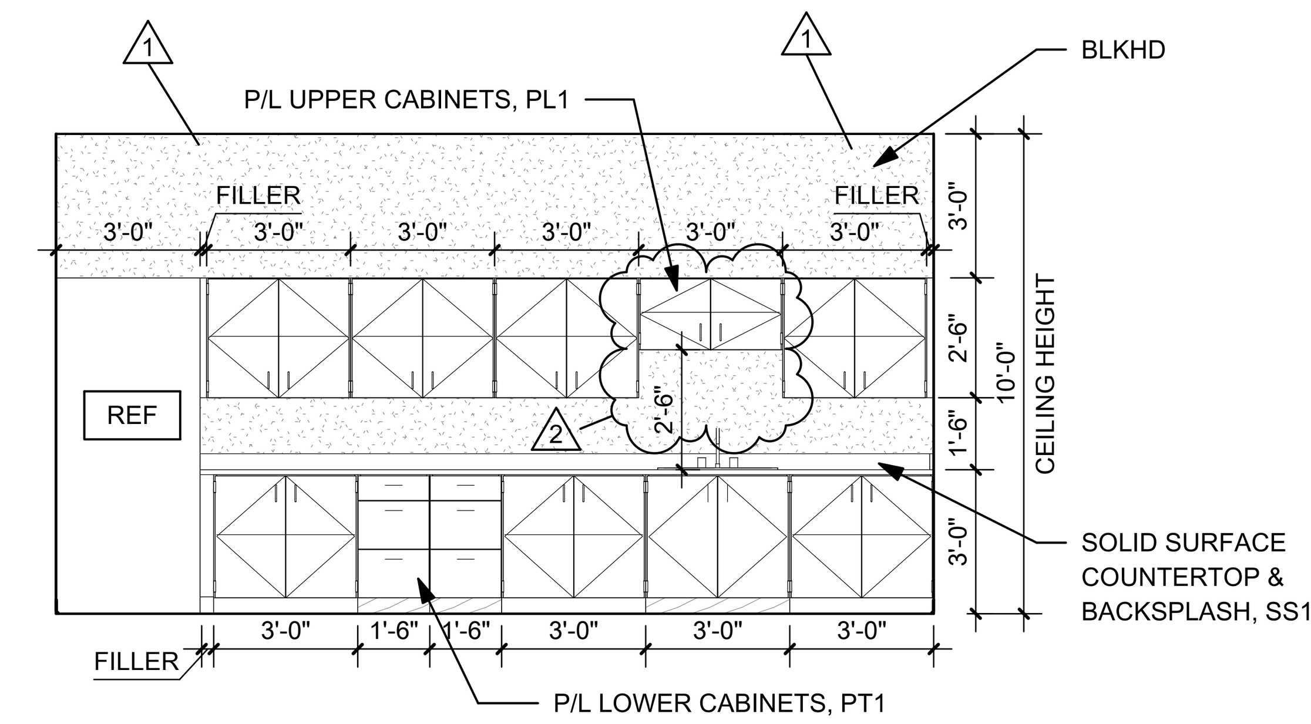
1 OPTICAL EXAM TYP
A4.02 1/4" = 1'-0"



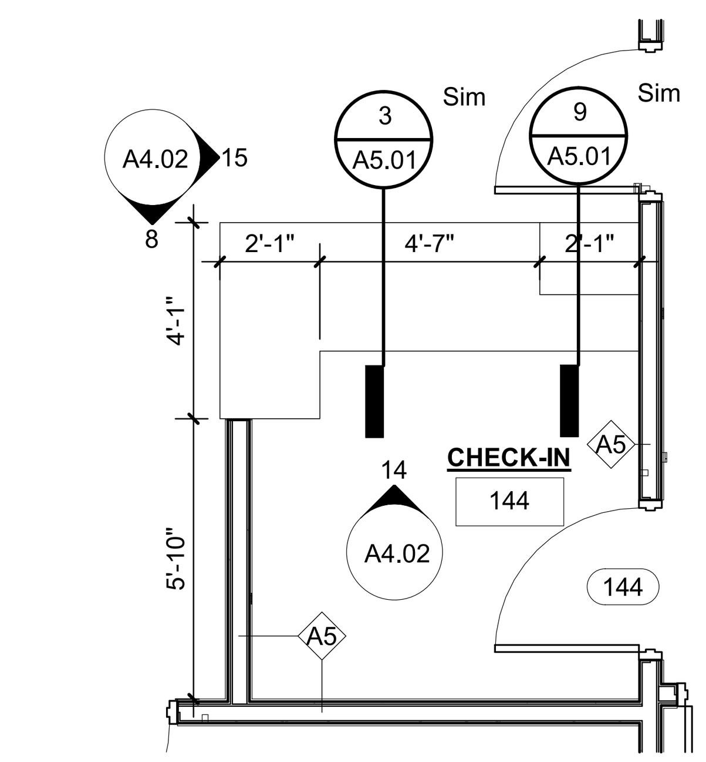
2 OPTICAL EXAM, TYP ELEVATION
A4.02 1/4" = 1'-0"



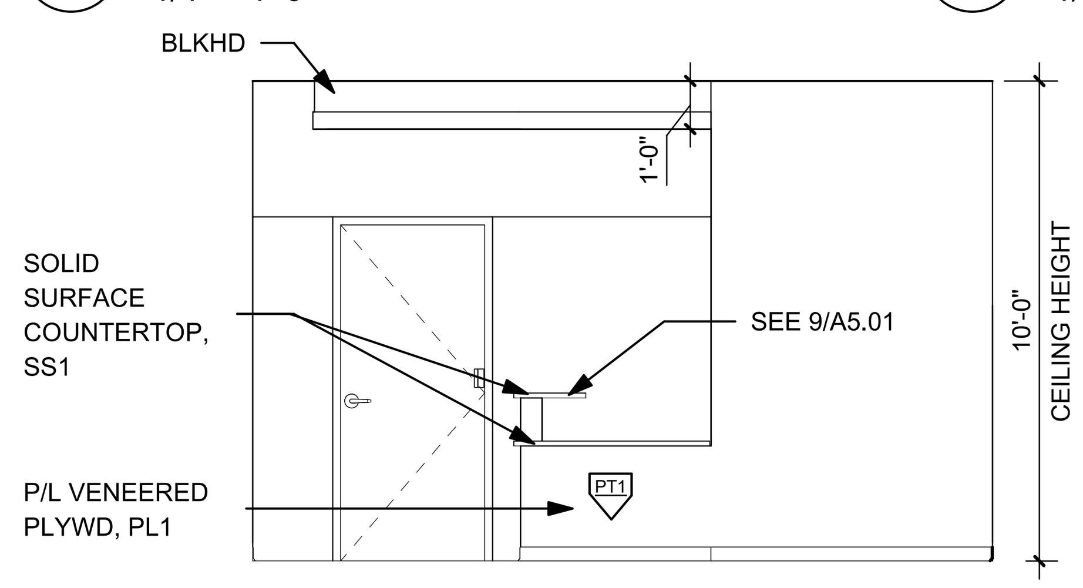
3 BREAKROOM
A4.02 1/4" = 1'-0"



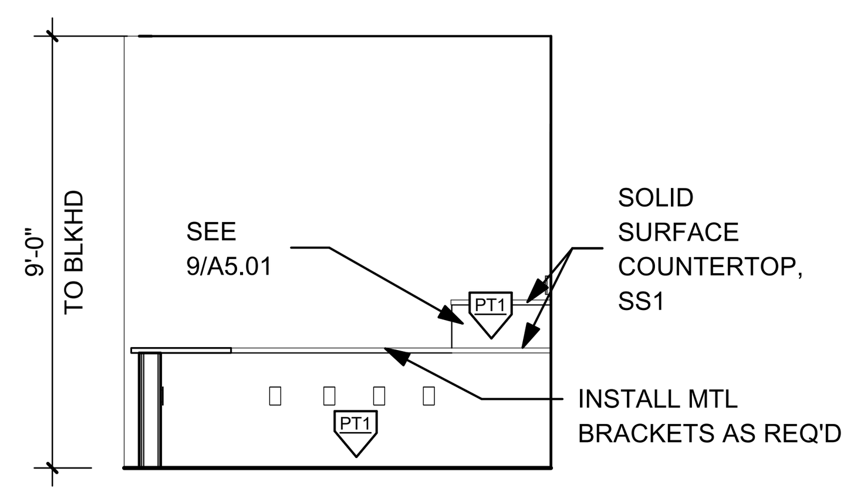
4 BREAKROOM ELEVATION
A4.02 1/4" = 1'-0"



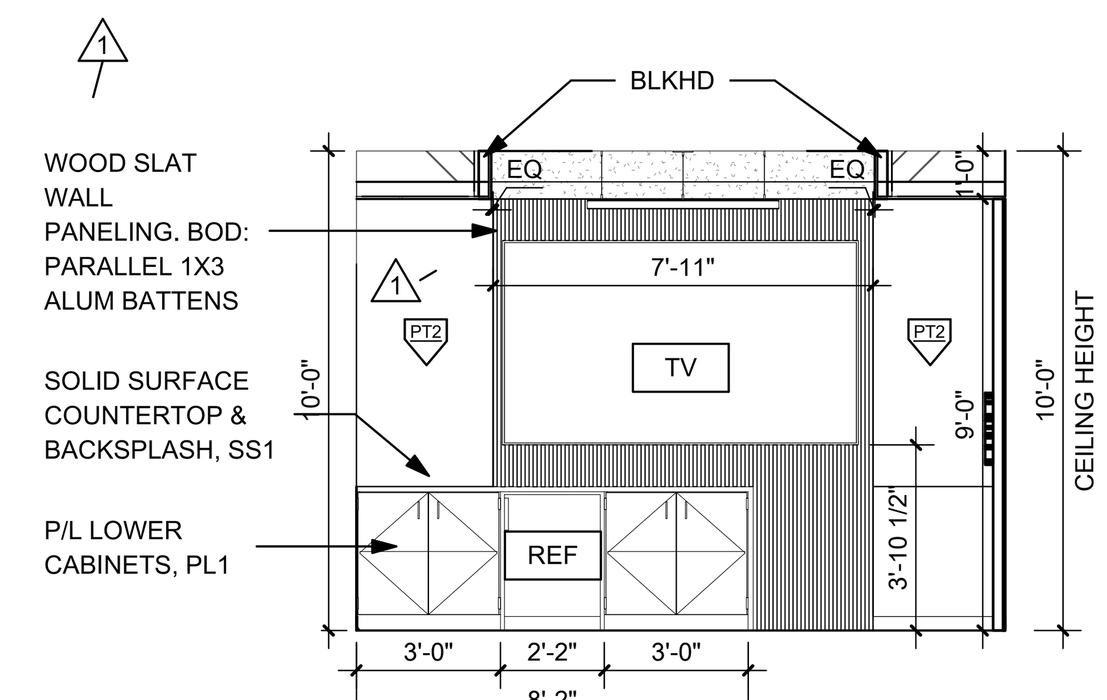
13 CHECK-IN
A4.02 1/4" = 1'-0"



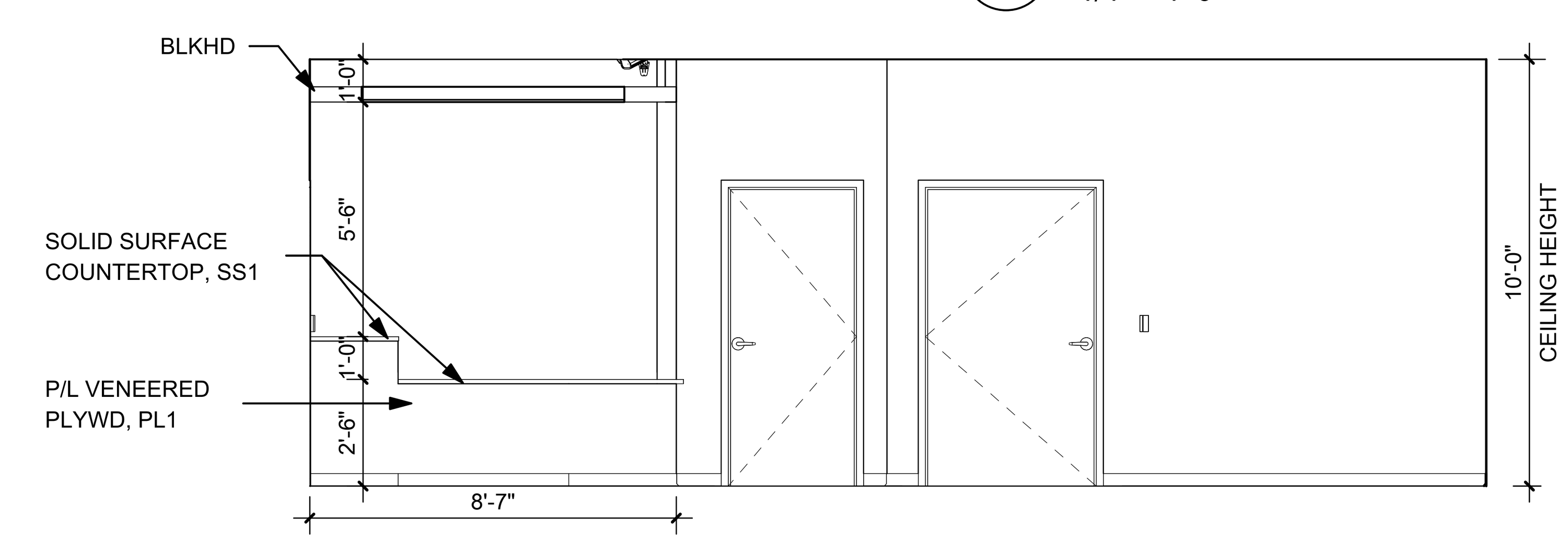
15 CHECK-IN ELEVATION
A4.02 1/4" = 1'-0"



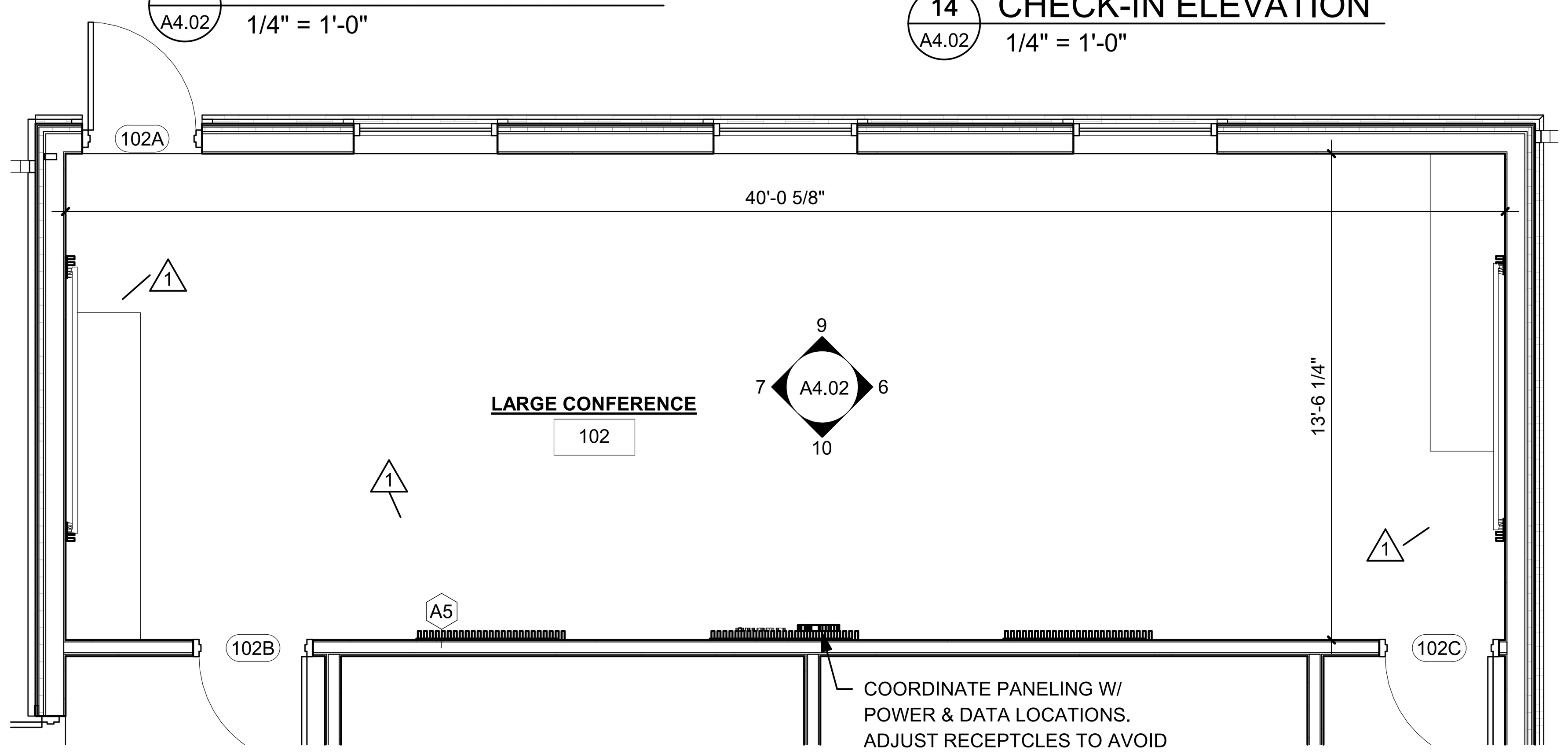
14 CHECK-IN ELEVATION
A4.02 1/4" = 1'-0"



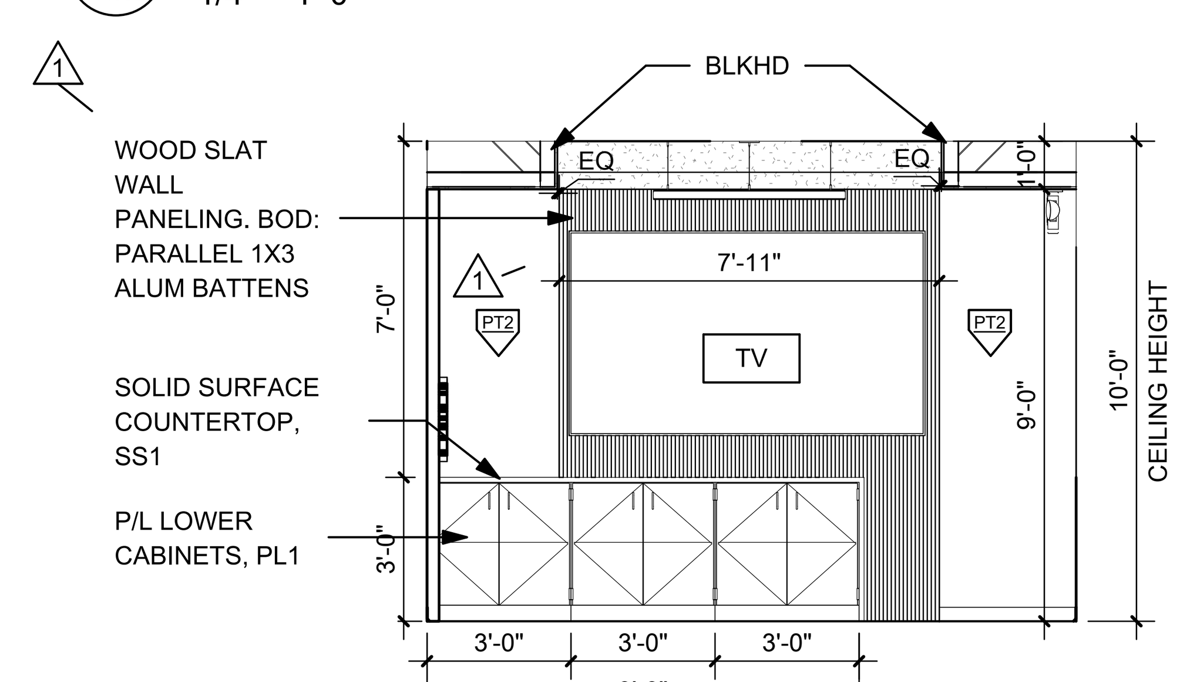
6 LARGE CONFERENCE ELEVATION
A4.02 1/4" = 1'-0"



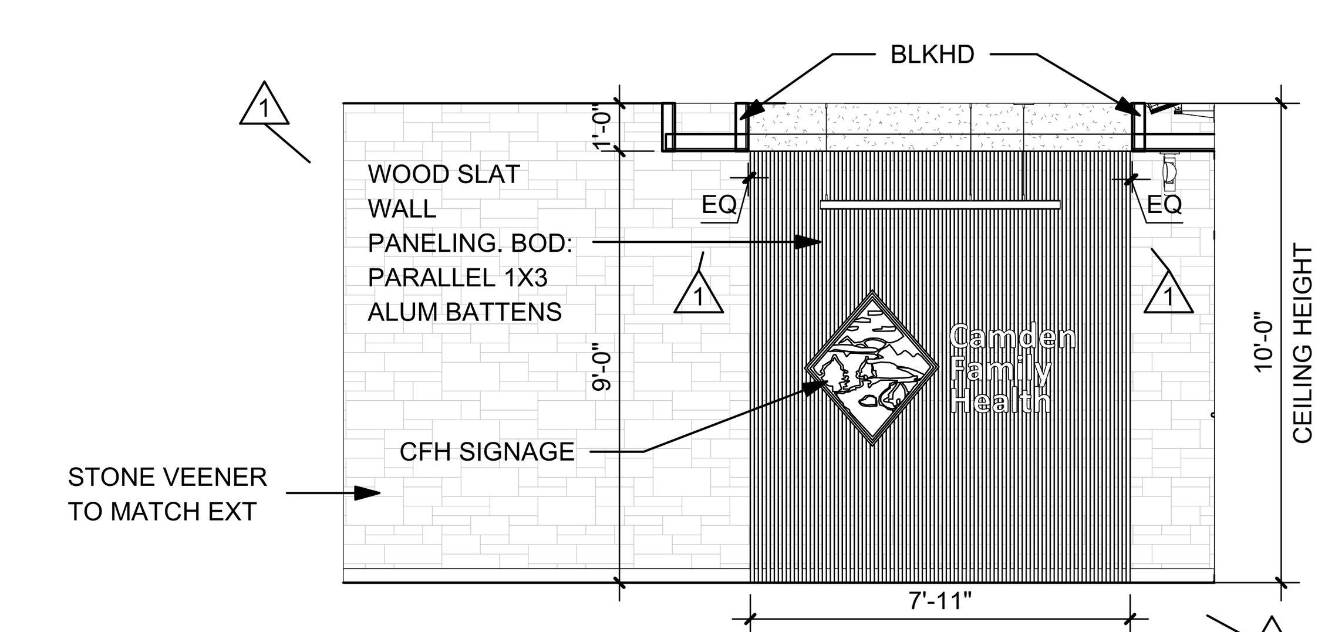
8 CHECK-IN ELEVATION
A4.02 1/4" = 1'-0"



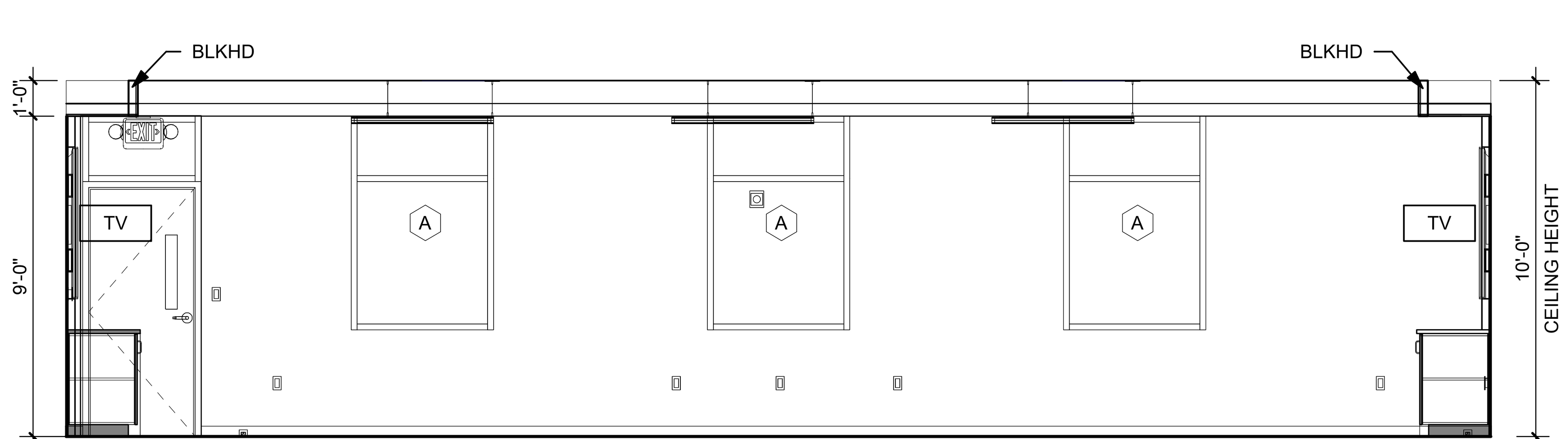
5 LARGE CONFERENCE
A4.02 1/4" = 1'-0"



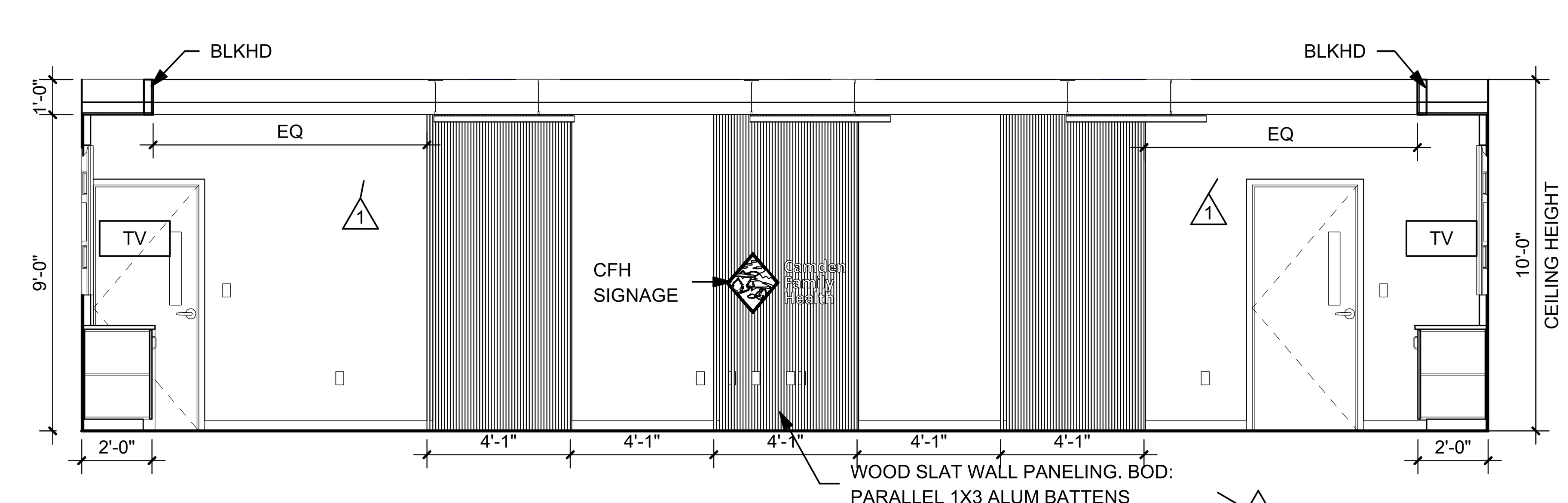
7 LARGE CONFERENCE ELEVATION
A4.02 1/4" = 1'-0"



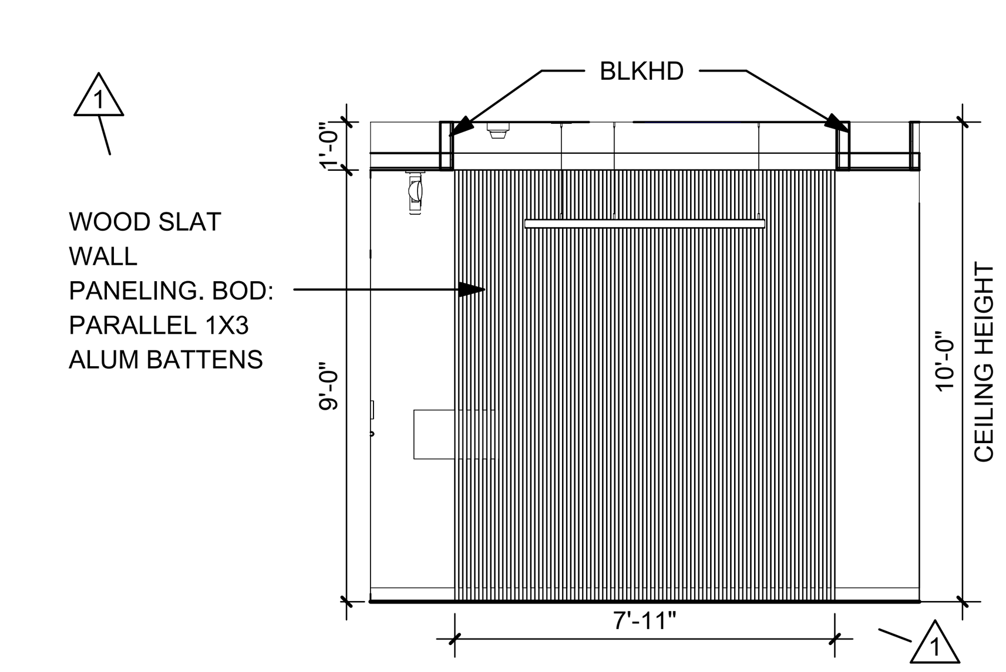
11 MAIN ENTRANCE WALL ELEVATION
A4.02 1/4" = 1'-0"



9 LARGE CONFERENCE ELEVATION
A4.02 1/4" = 1'-0"



10 LARGE CONFERENCE ELEVATION
A4.02 1/4" = 1'-0"



12 MAIN ENTRANCE WALL ELEVATION
A4.02 1/4" = 1'-0"

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STATE OF WEST VIRGINIA — CASEY C. — NO. 4644 — REGISTERED ARCHITECT — 2/26/25

NO.	BY	DATE	DESCRIPTION
1		04/01/26	ADDENDUM #1
2		04/10/26	ADDENDUM #2

CAMDEN FAMILY HEALTH - ADMIN OFFICES

CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

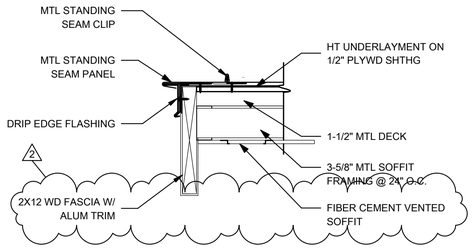
DRAWN: ALB DATE: 02/26/26
CHECKED: CCA DATE: 02/26/26
APPROVED: CCA DATE: 02/26/26

PROJECT No. T60-11117

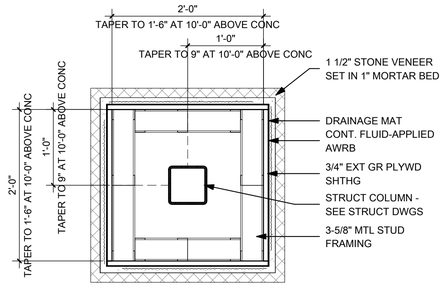
ENLARGED PLAN VIEWS & INT. ELEVATIONS

SHEET No. A4.02

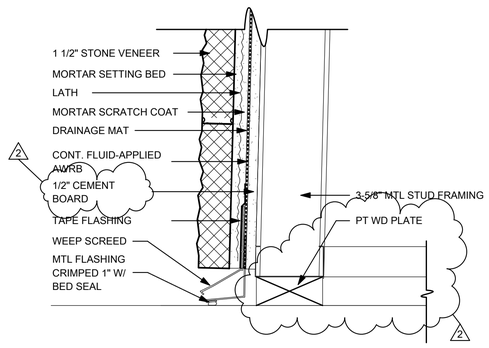
LAYOUT TAB: ENLARGED PLAN VIEWS & INT. ELEVATIONS
CAD FILE: Autodesk Docs://CFH Admin Office Building/ADMIN OFFICES - CFH - CENTRAL_V25.rvt
PLOT DATE/TIME: 4/10/2026 8:57:33 AM
USER: ALB



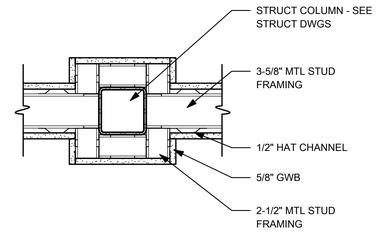
5 A5.02 ROOF DETAIL - RAKE
1 1/2" = 1'-0"



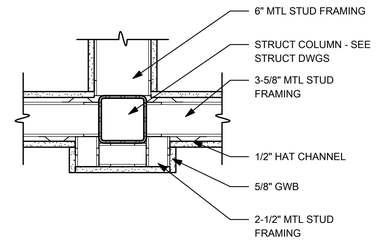
3 A5.02 PLAN DETAIL - EXT COLUMN WRAP
1" = 1'-0"



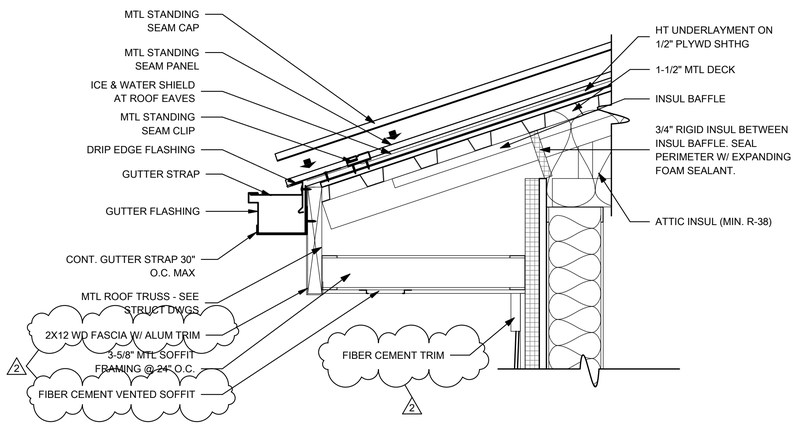
4 A5.02 BASE OF COLUMN DETAIL
3" = 1'-0"



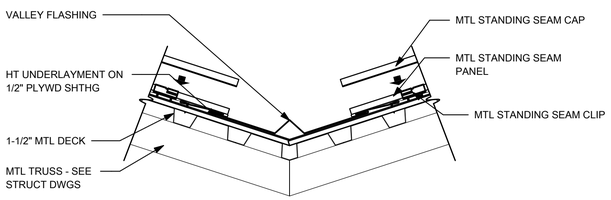
9 A5.02 PLAN DETAIL - INT. COLUMN WRAP
1 1/2" = 1'-0"



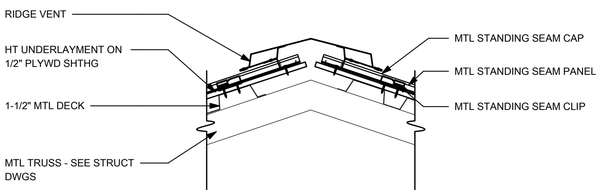
10 A5.02 PLAN DETAIL - INT. COLUMN WRAP
1 1/2" = 1'-0"



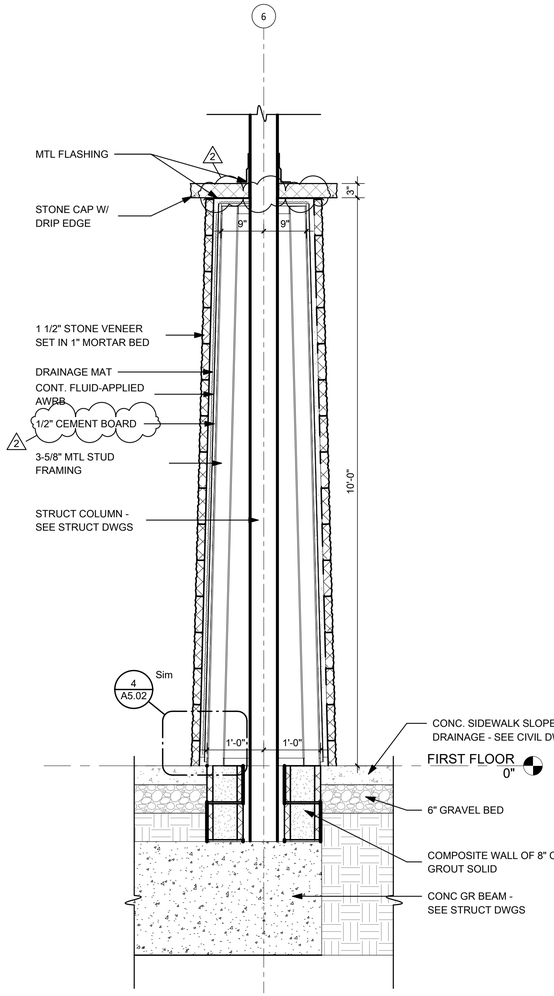
8 A5.02 ROOF DETAIL - EAVE
1 1/2" = 1'-0"



6 A5.02 ROOF DETAIL - VALLEY
1 1/2" = 1'-0"



7 A5.02 ROOF DETAIL - RIDGE VENT
1 1/2" = 1'-0"



2 A5.02 SECTION DETAIL - EXT TAPERED COLUMN
3/4" = 1'-0"

1 A5.02 SECTION DETAIL - MED RECORDS TRANSACTION WINDOW
1" = 1'-0"

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STATE OF WEST VIRGINIA
CASEY C. ALTHOUSE
LIC. NO. 4644
REGISTERED ARCHITECT
2/26/25

NO.	BY	DATE	DESCRIPTION
1		04/01/26	ADDENDUM #1
2		04/10/26	ADDENDUM #2

CAMDEN FAMILY HEALTH - ADMIN OFFICES
CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

DRAWN: ALB DATE: 02/26/26
CHECKED: CCA DATE: 02/26/26
APPROVED: CCA DATE: 02/26/26

PROJECT No.
T60-11117

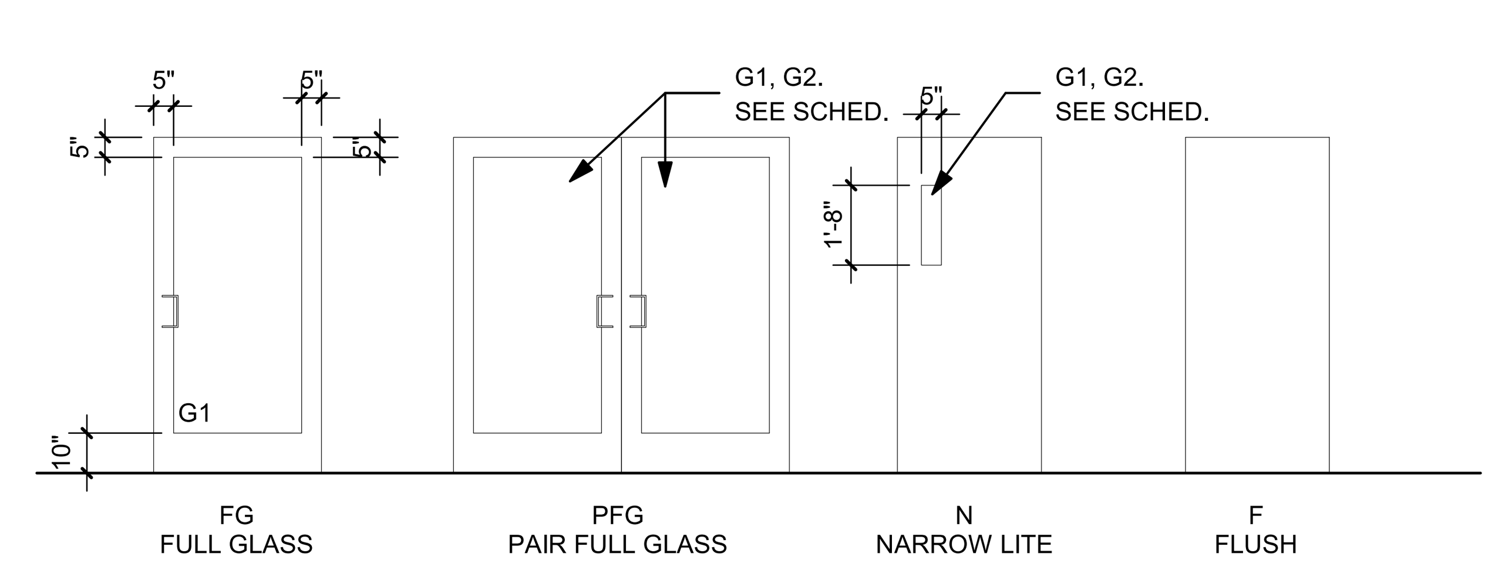
DETAILS

SHEET No.
A5.02

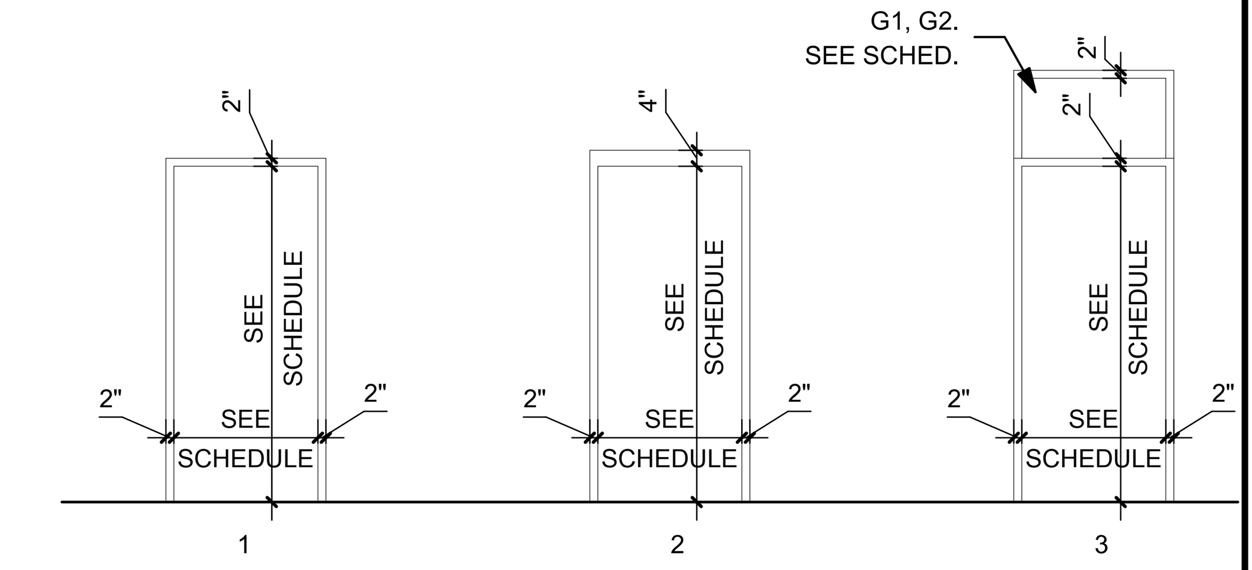
USER: ALB
PLOT DATE/TIME: 4/10/2026 8:55:37 AM
LAYOUT TAB: DETAILS
CAD FILE: Autosaved Docs (CFH Admin Office Building)ADMIN OFFICES_CFH_CENTRAL_V26.rvt

DOOR, FRAME, & HARDWARE SCHEDULE

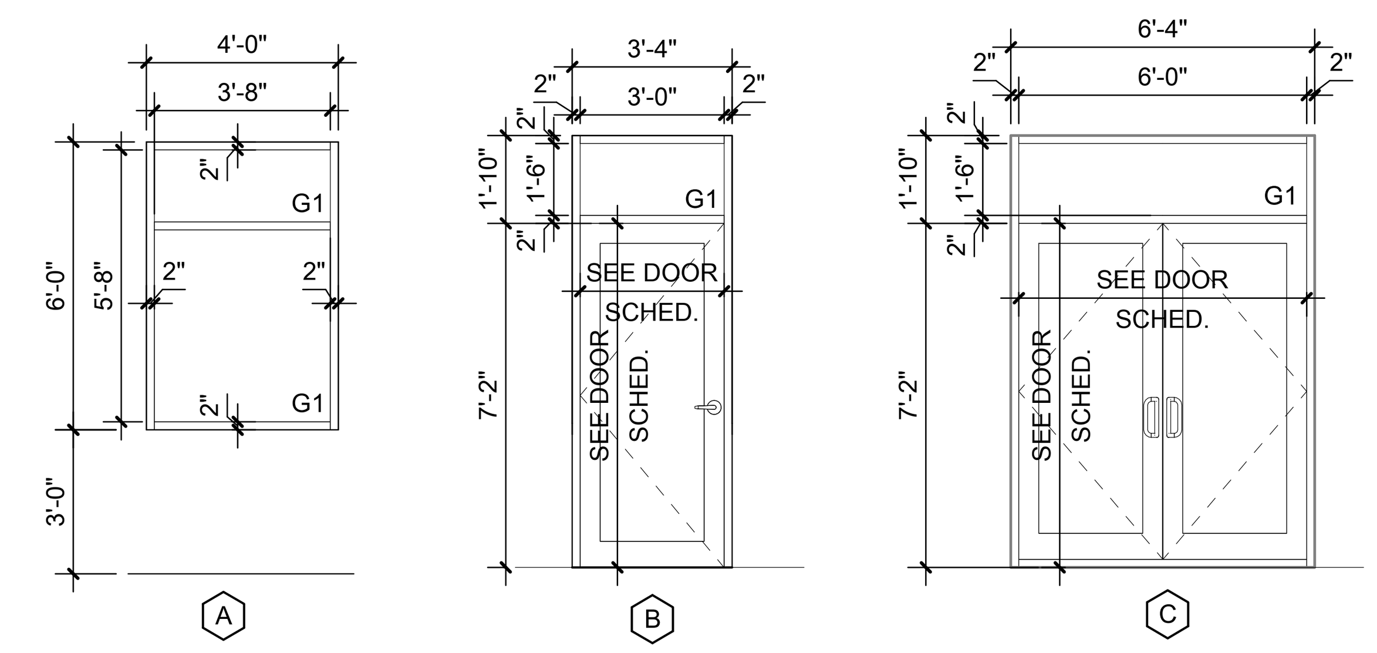
#	DOOR						FRAME			ASSEMBLY		ASSEMBLY		
	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	FRAME TYPE	FRAME MATERIAL	FRAME FINISH	FIRE RATING	ACCESS CONTROLS	HARDWARE SET	KEYROOM	REMARKS
101A	N	3'-0"	7'-0"	1 3/4"	GALV. H.M.	PTD	1	GALV. H.M.	PTD		No	08		G1
101B	N	3'-0"	7'-0"	1 3/4"	GALV. H.M.	PTD	3	GALV. H.M.	PTD		No	08		G1
101C	N	3'-0"	7'-0"	1 3/4"	GALV. H.M.	PTD	1	GALV. H.M.	PTD		No	08		G1
101D	N	3'-0"	7'-0"	1 3/4"	GALV. H.M.	PTD	3	GALV. H.M.	PTD		No	08		G1
101E	PFG	6'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	18		G2
101F	PFG	6'-0"	7'-0"	1 3/4"	ALUM.	PTD	3	ALUM.	ANOD.		No	17		G1
101G	N	4'-0"	7'-0"	1 3/4"	GALV. H.M.	PTD	1	GALV. H.M.	PTD		Yes	14		G1
101H	N	3'-0"	7'-0"	1 3/4"	GALV. H.M.	PTD	3	GALV. H.M.	PTD		No	08		G1
101K	N	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	05		G2
102A	N	3'-0"	7'-0"	1 3/4"	GALV. H.M.	PTD	1	GALV. H.M.	PTD		No	08		G1
102B	N	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		G2
102C	N	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		G2
103	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
104	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
105	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
106	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
107	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
108	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
109	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
110	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	05		
111	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	05		
112	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	No	06		
113	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
114	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	No	06		
115	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
116	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	No	06		
117	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
118	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	05		
119	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	No	06		
120	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	No	06		
121	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	Yes	16		
122A	N	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	13		G2
122B	N	3'-0"	7'-0"	1 3/4"	GALV. H.M.	PTD	3	GALV. H.M.	PTD		No	08		G1
123	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
124	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
125	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	10		
126A	N	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	07		G2
126B	N	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	16		G2
127	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
128	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
129A	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	02		
129B	N	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	16		G2
130	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
131A	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	Yes	16		
131B	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	Yes	16		
132	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	05		
133	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	Yes	03		
134	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	05		
135	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	Yes	16		
136	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	No	06		
137	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	Yes	16		
138	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	No	06		
139	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
140A	N	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	02		G2
140B	FG	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	19		G2
140C	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	15		
141	F	4'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	11		
142	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	05		
143	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	05		
144	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
145	FG	3'-0"	7'-2"	1 3/4"	ALUM.	ANOD.	3	ALUM.	ANOD.		No	12		G1
146	F	3'-0"	7'-0"	1 3/4"	GALV. H.M.	PTD	1	GALV. H.M.	PTD		No	04		
147	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	09		
148	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	05		
149	CO	3'-0"	7'-0"	0"			1	H.M.	PTD					
150	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
151	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		Yes	01		
152	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD	45 MIN.	Yes	16		
153	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	09		
154	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	09		
155	F	3'-0"	7'-0"	1 3/4"	WD	STAINED	1	H.M.	PTD		No	09		



DOOR TYPE LEGEND
1/4" = 1'-0"



FRAME TYPE LEGEND
1/4" = 1'-0"



NOTE: WINDOW ELEVATION B HAS TWO FRAME MATERIALS. WINDOW TYPE B1 IS ALUMINUM FRAME. WINDOW TYPE B2 IS HOLLOW METAL FRAME. SEE ENLARGED PLANS FOR LOCATION.

1 A6.01 WINDOW ELEVATION
1/4" = 1'-0"

WINDOW SCHEDULE

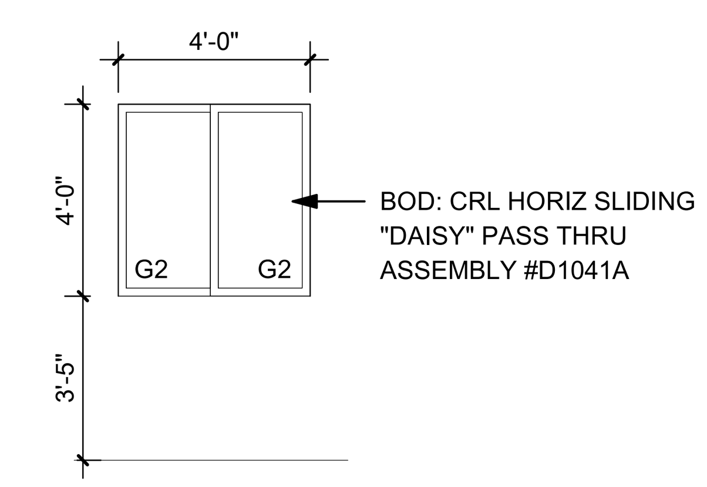
TYPE	FRAME	GLAZING TYPES	SILL	JAMB	HEAD
A	ALUM.	G1	10	12	14
B1	*ALUM.	G1	10	12	14
B2	*H.M.	G2	13	4	5
C	*ALUM.	G1	10	12	14

*FRAME TYPE 3. SEE DOOR SCHEDULE FOR LOCATION.

GLAZING TYPE LEGEND:

G1: 1" INUSLATED

G2: 1/4" TEMPERED



4 A6.01 PASS THRU WINDOW ELEVATION
1/4" = 1'-0"

THRASHER
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F (304) 624-7831
www.thethrashergroup.com

STATE OF WEST VIRGINIA CASEY C. ARTHUR NO. 4644 REGISTERED ARCHITECT
2/26/25

NO.	BY	DATE	DESCRIPTION
1		04/01/26	ADDENDUM #1
2		04/10/26	ADDENDUM #2

CAMDEN FAMILY HEALTH - ADMIN OFFICES
CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

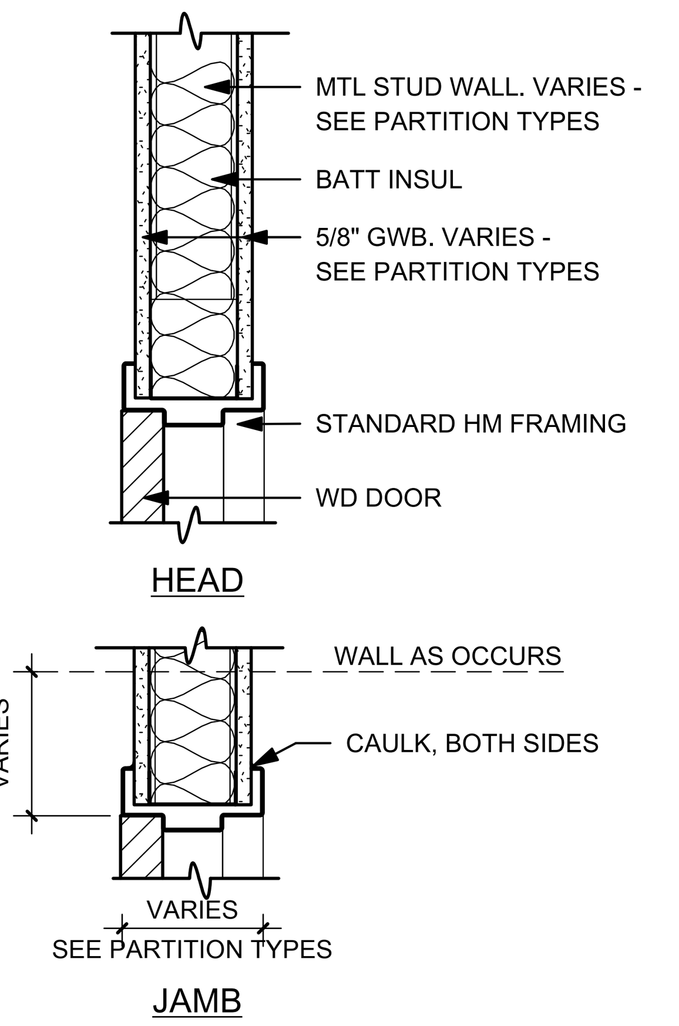
DRAWN: ALB DATE: 02/26/26
CHECKED: CCA DATE: 02/26/26
APPROVED: CCA DATE: 02/26/26

PROJECT No.
T60-11117

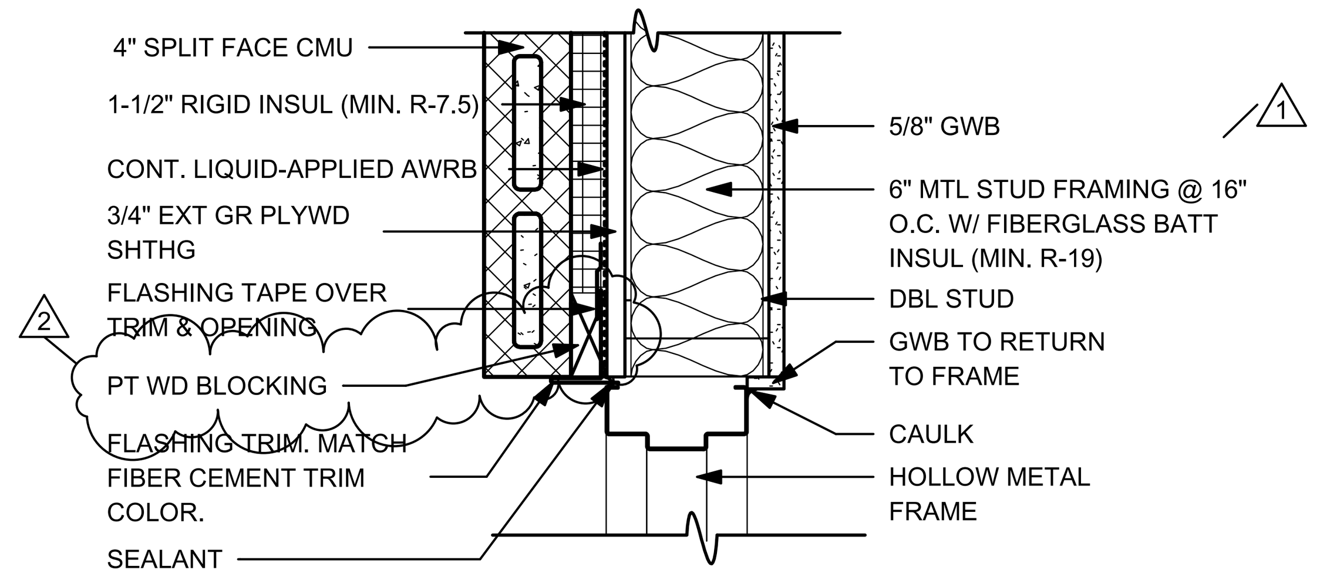
DOOR & WINDOW SCHEDULES

SHEET No.
A6.01

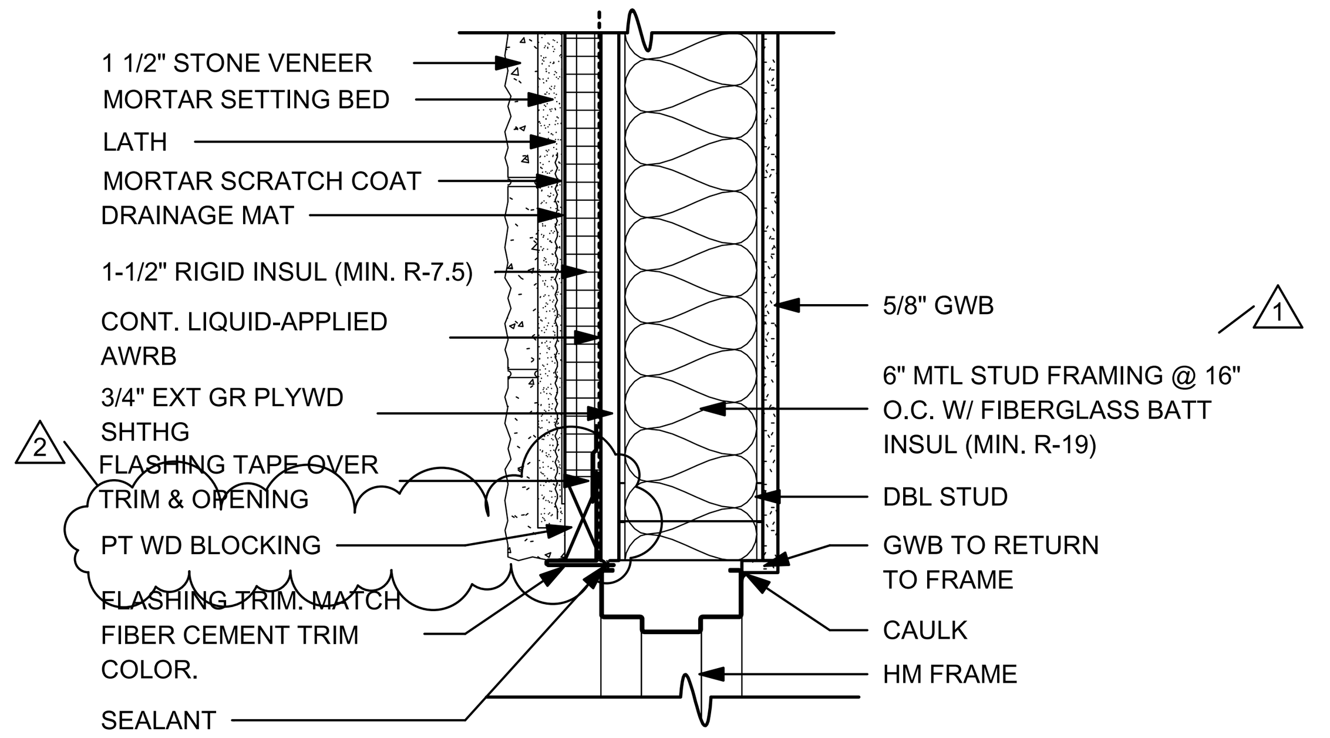
LAYOUT TAB: DOOR & WINDOW SCHEDULES
CAD FILE: Autodesk Docs://CFH Admin Office Building/ADMIN OFFICES - CFH - CENTRAL_V25.rvt
PLOT DATE/TIME: 4/10/2026 8:54:54 AM
USER: ALB



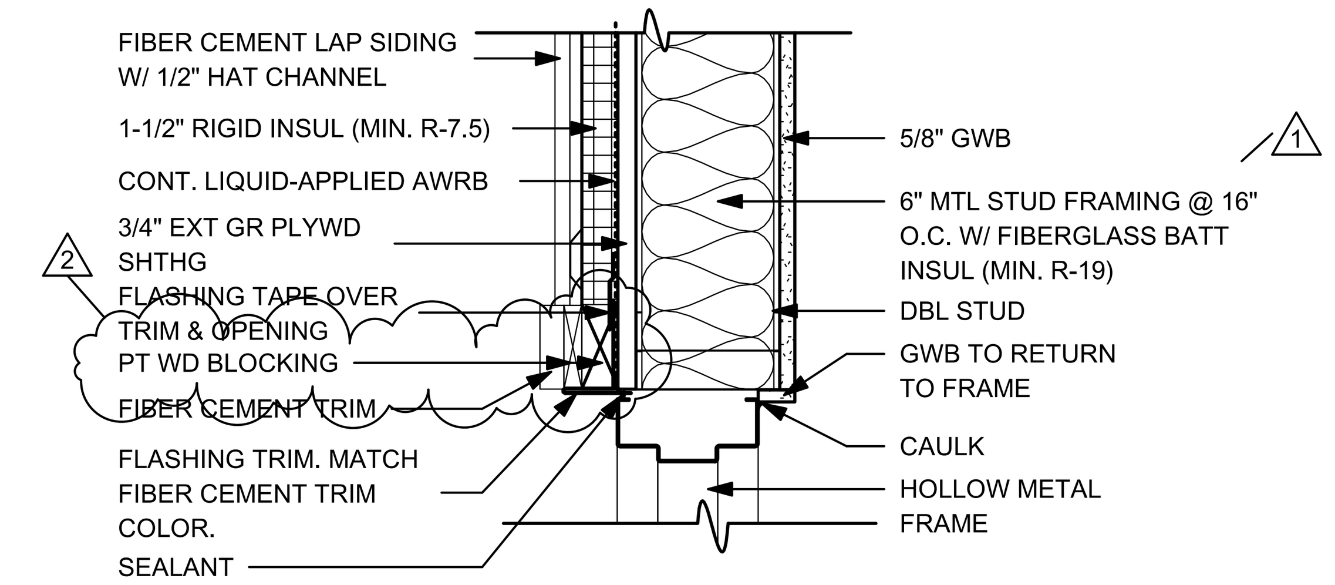
1 A6.02 DOOR DETAIL - INT. METAL FRAME
1 1/2" = 1'-0"



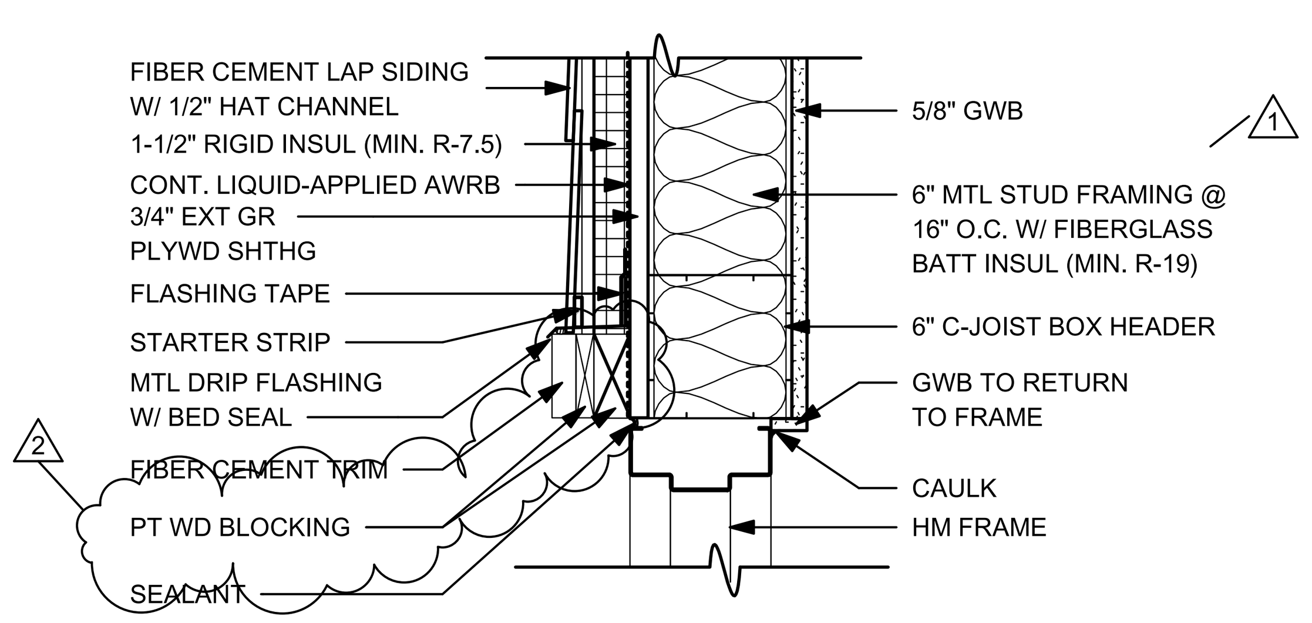
15 A6.02 DOOR DETAIL - EXT. METAL FRAME JAMB @ SPLIT FACE CMU
1 1/2" = 1'-0"



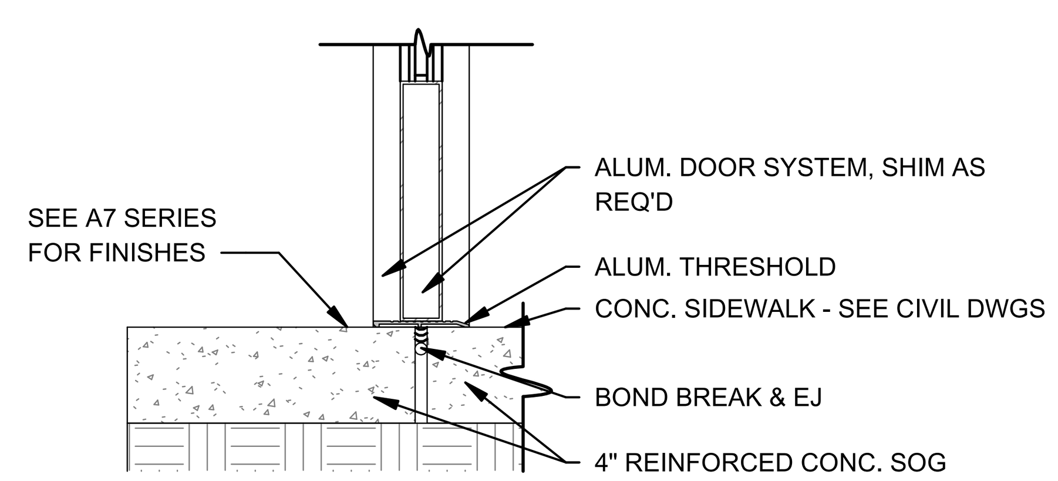
3 A6.02 DOOR DETAIL - EXT. METAL FRAME JAMB @ STONE VENEER
1 1/2" = 1'-0"



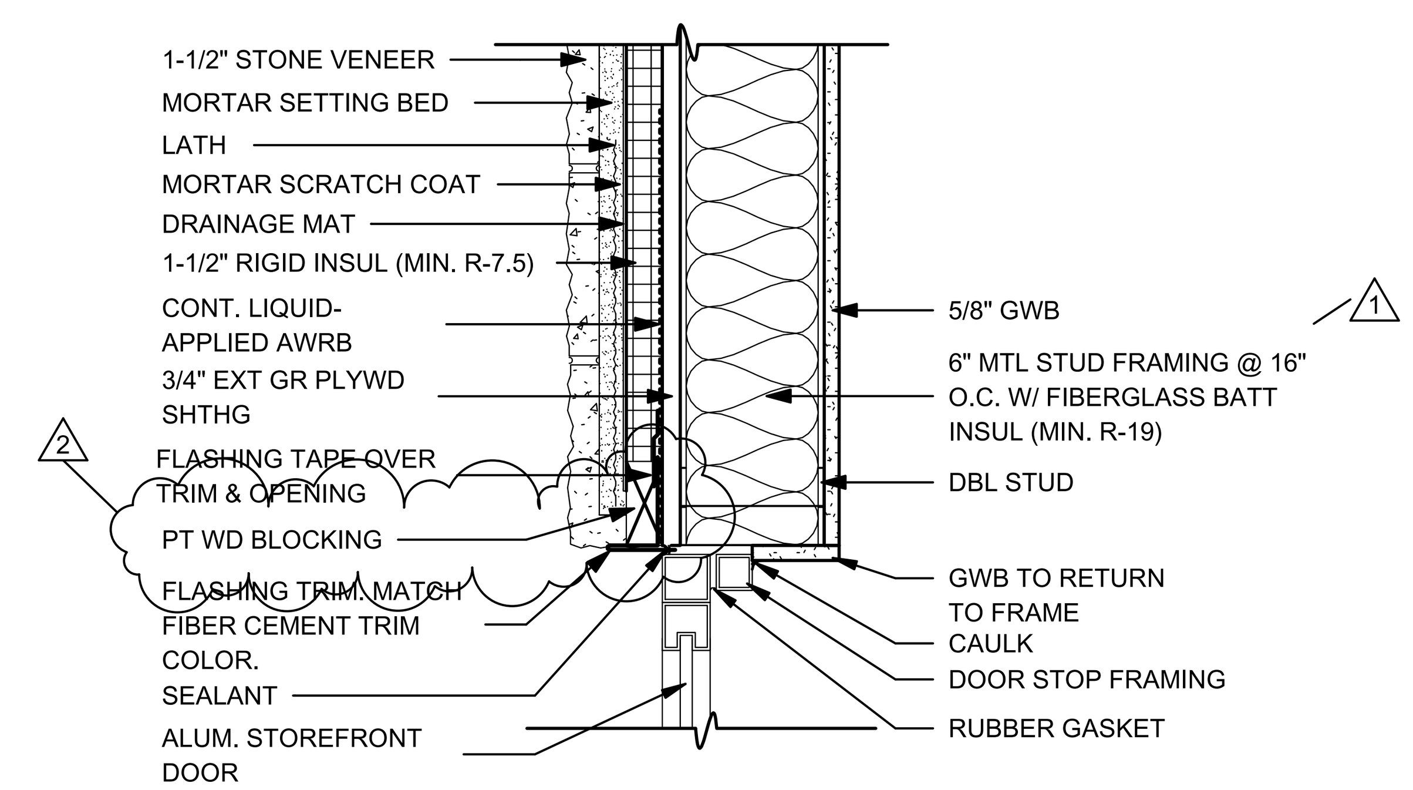
4 A6.02 DOOR DETAIL - EXT. METAL FRAME JAMB @ FIBER CEMENT
1 1/2" = 1'-0"



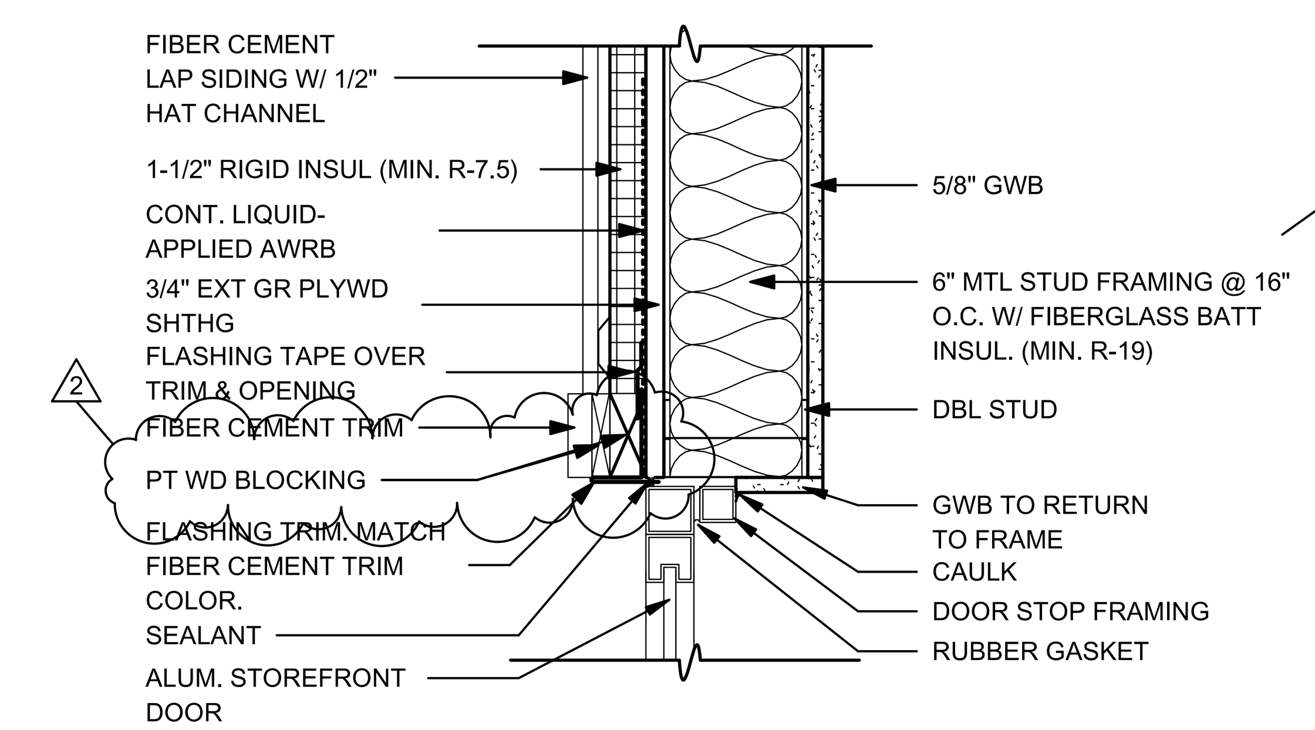
5 A6.02 DOOR DETAIL - EXT. METAL FRAME HEAD
1 1/2" = 1'-0"



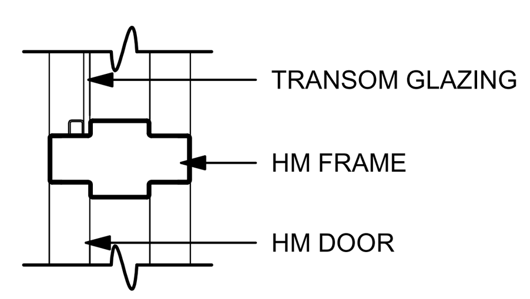
6 A6.02 DOOR DETAIL - EXT. ALUM FRAME THRESHOLD
1 1/2" = 1'-0"



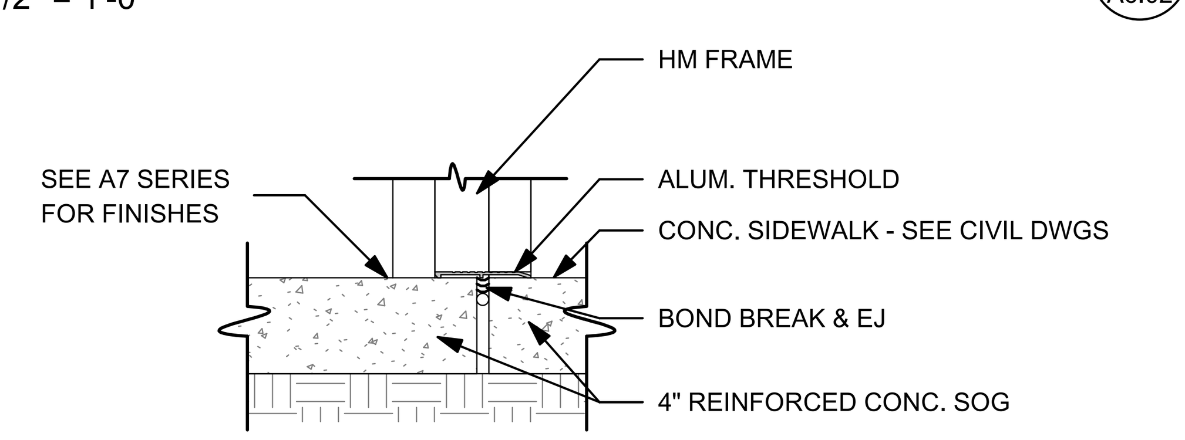
7 A6.02 DOOR DETAIL - EXT. ALUM FRAME JAMB @ STONE VENEER
1 1/2" = 1'-0"



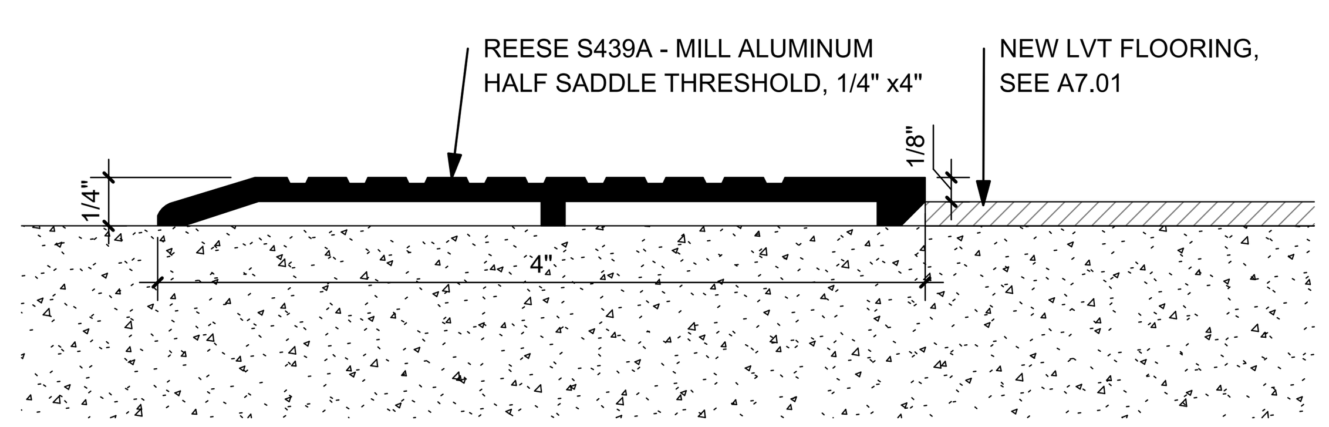
8 A6.02 DOOR DETAIL - EXT. ALUM FRAME JAMB @ FIBER CEMENT
1 1/2" = 1'-0"



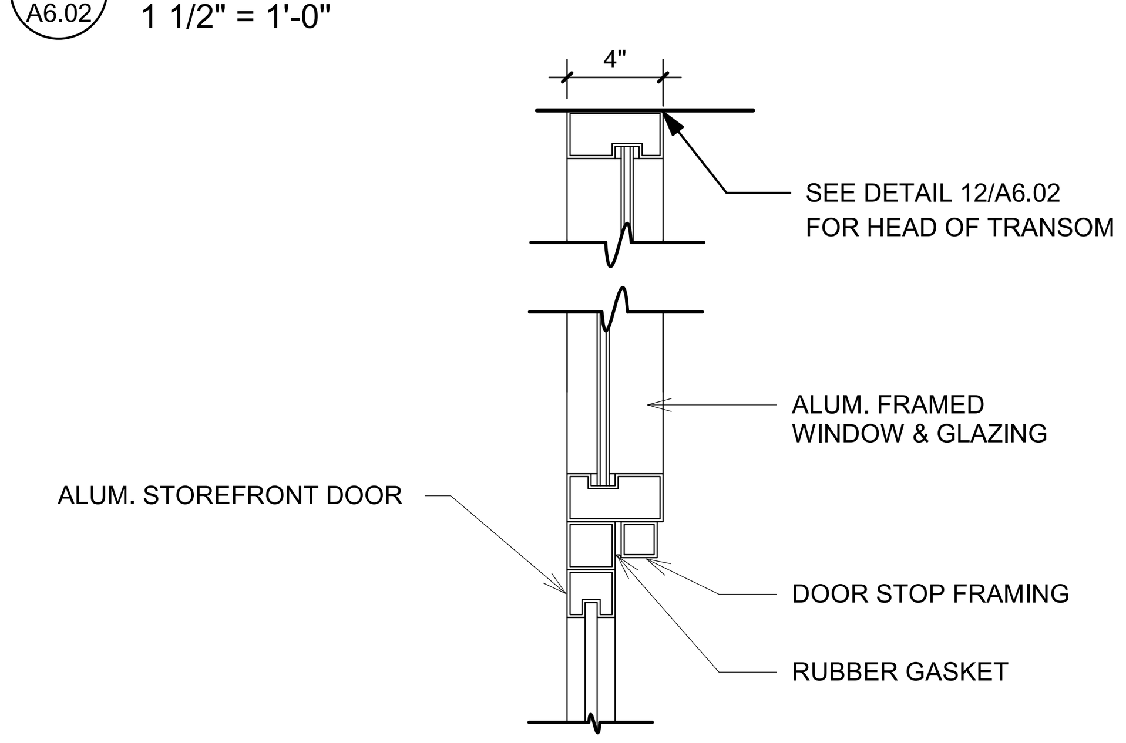
13 A6.02 DOOR DETAIL - METAL FRAME W/ TRANSOM
1 1/2" = 1'-0"



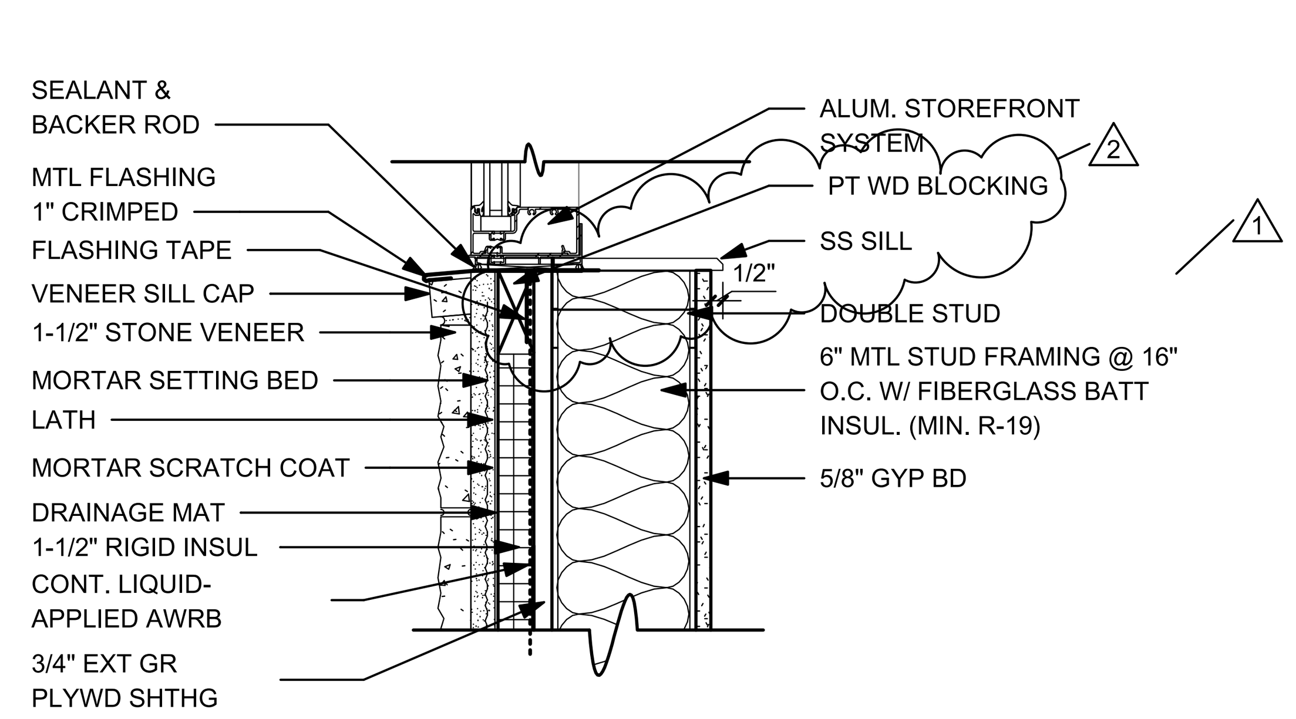
2 A6.02 DOOR DETAIL - EXT. METAL FRAME THRESHOLD
1 1/2" = 1'-0"



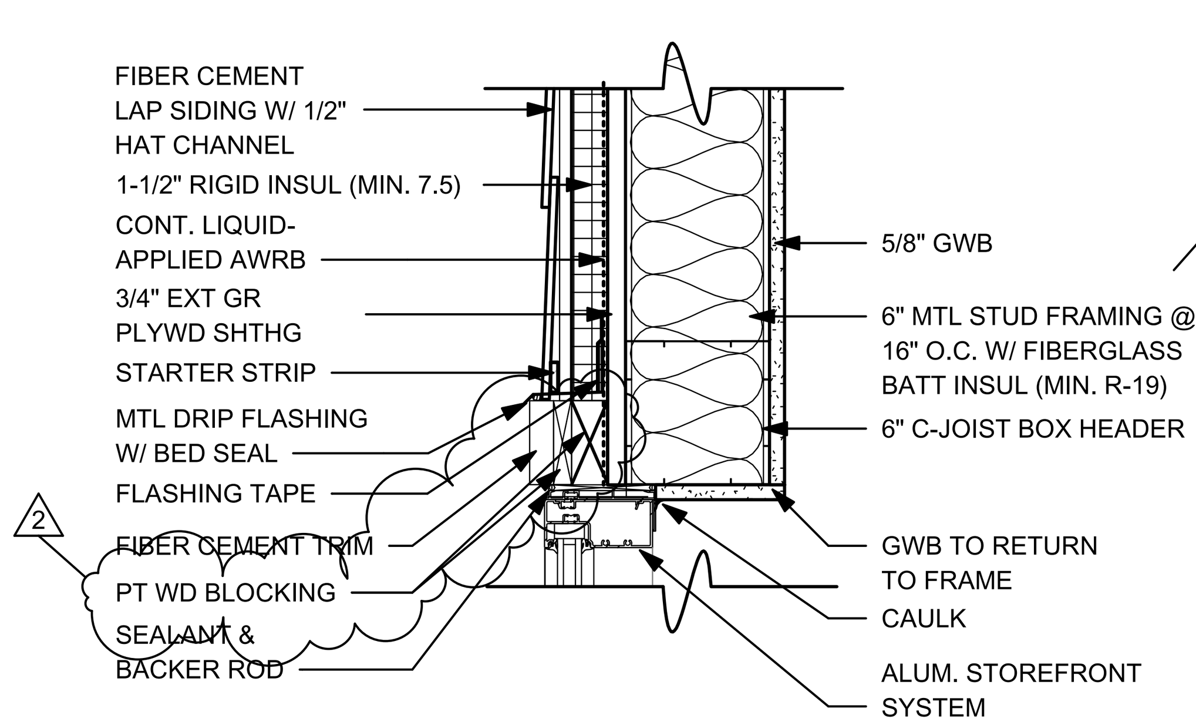
11 A6.02 DOOR DETAIL - EXT. THRESHOLD
12" = 1'-0"



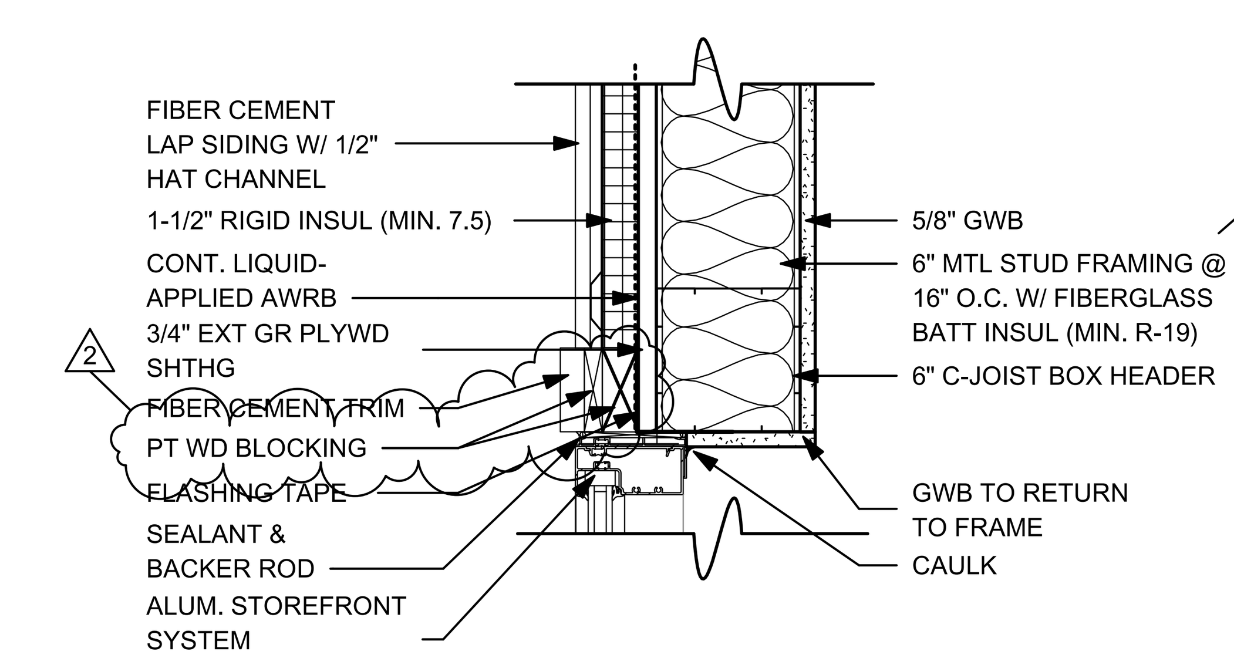
9 A6.02 DOOR DETAIL - EXT. ALUM FRAME HEAD
1 1/2" = 1'-0"



10 A6.02 WINDOW DETAIL - SILL @ STONE VENEER
1 1/2" = 1'-0"



12 A6.02 WINDOW DETAIL - HEAD
1 1/2" = 1'-0"



14 A6.02 WINDOW DETAIL - JAMB
1 1/2" = 1'-0"

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F (304) 624-7831

www.thethrashergroup.com

STATE OF WEST VIRGINIA REGISTERED ARCHITECT CASEY ... NO. 4644
2/26/25

NO.	DESCRIPTION	DATE	BY
1	ADDENDUM #1	04/01/26	
2	ADDENDUM #2	04/10/26	

CAMDEN FAMILY HEALTH - ADMIN OFFICES

CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

DRAWN: ALB DATE: 02/26/26
CHECKED: CCA DATE: 02/26/26
APPROVED: CCA DATE: 02/26/26

PROJECT No.
T60-11117

DOOR & WINDOW DETAILS

SHEET No.
A6.02

USER: ALB
PLOT DATE/TIME: 4/10/2026 8:54:13 AM
LAYOUT TAB: DOOR & WINDOW DETAILS
CAD FILE: Autodesk Docs://CFH Admin Office Building/ADMIN OFFICES - CFH - CENTRAL_V25.rvt

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE	WALL FINISH				CEILING HEIGHT	CEILING FINISH	REMARKS
				NORTH	EAST	SOUTH	WEST			
101	CORRIDOR	FL1	WB1	PT1	PT1	PT1	PT1	VARIES	VARIES; SEE RCP	
101B	CORRIDOR									
102	LARGE CONFERENCE	FL1	WB1	PT1	PT1	PT1	PT1	VARIES	VARIES; SEE RCP	
103	COO	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
104	HR	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
105	OFFICE	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
106	OFFICE	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
107	ASST. CEO	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
108	OFFICE	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
109	CEO	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
110	TLT	FL2	WB1	TI1,PT1	TI1, TI2	TI1, PT1	TI1, PT1	10'-0"	GYPSUM	
111	TLT	FL2	WB1	TI1,PT1	TI1, PT1	TI1, PT1	TI1, TI2	10'-0"	GYPSUM	
112	MECH.	FL3	WB1	PT1	PT1	PT1	PT1	N.A.	EXPOSED	
113	FACILITIES	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
114	TRANSFORMER	FL3	WB1	PT1	PT1	PT1	PT1	N.A.	EXPOSED	
115	SBHC	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
116	ELEC.	FL3	WB1	PT1	PT1	PT1	PT1	N.A.	EXPOSED	
117	DIR. NURSING	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
118	TLT	FL2	WB1	TI1,PT1	TI1, TI2	TI1, PT1	TI1, PT1	10'-0"	GYPSUM	
119	JAN	FL3	WB1	PT1	PT1	PT1	PT1	10'-0"	GYPSUM	
120	SPRKLR	FL3	WB1	PT1	PT1	PT1	PT1	N.A.	EXPOSED	
121	STOR.	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
122	QUALITY	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
123	QUALITY ASST.	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
124	CREDENT.	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
125	BREAK ROOM	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
126	BILLING & ACCOUNTING	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
127	CFO	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
128	PURCHASING	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
129	MEDICAL RECORDS	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
130	MED REC. MAN.	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
131	STORAGE	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
132	TLT	FL2	WB1	TI1,PT1	TI1, TI2	TI1, PT1	TI1, PT1	10'-0"	GYPSUM	
133	STOR.	FL1	WB1	PAINT	PAINT	PAINT	PAINT	10'-0"	ACT	
134	TLT	FL2	WB1	TI1,PT1	TI1, PT1	TI1, PT1	TI1, TI2	10'-0"	GYPSUM	
135	SERVER	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	EXPOSED	
136	MECH.	FL3	WB1	PT1	PT1	PT1	PT1	N.A.	EXPOSED	
137	IT	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
138	ELEC.	FL3	WB1	PT1	PT1	PT1	PT1	N.A.	EXPOSED	
139	CIO	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
140	WAITING	FL1	WB1	PT1	PT1	PT1	PT1	VARIES	VARIES; SEE RCP	
141	SHELL	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
142	TLT	FL2	WB1	TI1, TI2	TI1, PT1	TI1, PT1	TI1, PT1	10'-0"	GYPSUM	
143	TLT	FL2	WB1	TI1,PT1	TI1, PT1	TI1, TI2	TI1, PT1	10'-0"	GYPSUM	
144	CHECK-IN	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
145	VESTIBULE	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	GYPSUM	
146	CORRIDOR	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
147	OPT. EXAM	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
148	TLT	FL2	WB1	TI1,PT1	TI1, TI2	TI1, PT1	TI1, PT1	10'-0"	GYPSUM	
149	OPT. TEST	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
150	OFFICE	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
151	OFFICE	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
152	STOR.	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
153	OPT. EXAM	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
154	OPT. EXAM	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	
155	OPT. EXAM	FL1	WB1	PT1	PT1	PT1	PT1	10'-0"	ACT	

2

2

1

GENERAL FINISH NOTES

1. ALL WALL PAINT TO BE EGGSHELL FINISH.

2. ALL CEILING PAINT TO BE FLAT FINISH.

3. ALL H.M. DOOR FRAMES TO BE SEMI-GLOSS FINISH. ALL FRAMES TO BE PAINTED PT2.

FINISH SCHEDULE	
NOTE NUMBER	DESCRIPTION
FL 1	TARKETT - ID LATITUDE WOOD - EUROPEAN CHERRY 3307
FL 2	FLORIDATILE - SEQUENCE - CURRENT - M1X3HER
FL 3	CONCRETE FINISHED
PL1	FORMICA - OILED LEGNO 8846
PT1	SHERWIN WILLIAMS - PANDA WHITE 6147
PT2	SHERWIN WILLIAMS - DOWN POUR 6516
RS1	TBD
SS1	WILSONART - BLUESTONE 9074EA
TI1	AMERICAN OLEAN - COLOR STORY - SAPPHIRE SKY 0070 - 8"X24"
TI2	AMERICAN OLEAN - COLOR STORY - STORM GRAY 0040 - 8"X24"
WB1	JOHNSONITE - 4" TRADITIONAL - BLUE JEAN 84

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STATE OF WEST VIRGINIA
CASEY C. ALTHOUSE
NO. 4644
REGISTERED
ARCHITECT
2/26/25

NO.	BY	DATE	DESCRIPTION
1		04/01/26	ADDENDUM #1
2		04/10/26	ADDENDUM #2

CAMDEN FAMILY HEALTH - ADMIN OFFICES

CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

DRAWN: ALB DATE: 02/26/26
CHECKED: CCA DATE: 02/26/26
APPROVED: CCA DATE: 02/26/26

PROJECT No.
T60-11117

FINISH SCHEDULE

SHEET No.
A7.02

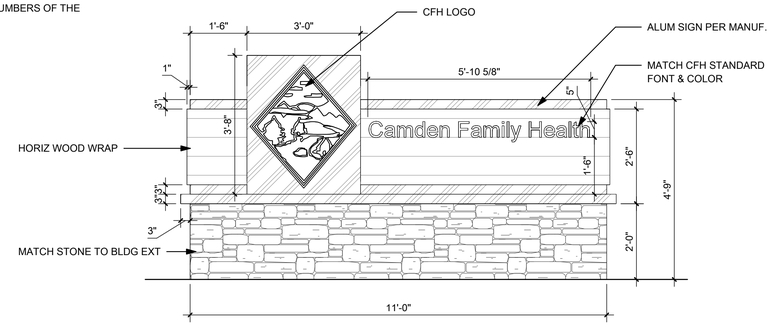
LAYOUT TAB: FINISH SCHEDULE
CAD FILE: Autodesk Docs://CFH Admin Office Building/ADMIN OFFICES - CFH - CENTRAL V25.rvt
PLOT DATE/TIME: 4/10/2026 8:48:01 AM
USER: ALB

SIGNAGE SCHEDULE

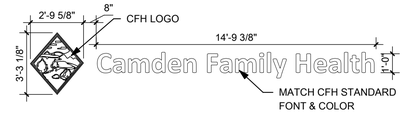
FLOOR PLAN #	NAME	SIGN TYPE	SIGN TITLE	SIGN #	REMARKS
101B	CORRIDOR				
102	LARGE CONFERENCE	3	CONFERENCE	1027	
103	COO	1	CHIEF OPERATING OFFICER	1026	
104	HR	1	HUMAN RESOURCES	1024	
105	OFFICE	1	OFFICE	1020	
106	OFFICE	1	OFFICE	1021	
107	ASST. CEO	1	ASST. CHIEF EXECUTIVE OFFICER	1025	
108	OFFICE	1	OFFICE	1022	
109	CEO	1	CHIEF EXECUTIVE OFFICER	1023	
110	TLT	2	RESTROOM	1018	
111	TLT	2	RESTROOM	1019	
112	MECH.	3	MECHANICAL	1012	
113	FACILITIES	1	FACILITIES MANAGER	1017	
114	TRANSFORMER	3	TRANSFORMER	1013	
115	SBHC	1	OFFICE	1014	
116	ELEC.	3	ELECTRICAL	1016	
117	DIR. NURSING	1	DIRECTOR OF NURSING	1015	
118	TLT	2	RESTROOM	1011	
119	JAN	3	JANITOR	1010	
120	SPRKLR	3	SPRINKLER	1009	
121	STOR.	3	STORAGE	1008	
122	QUALITY	3	QUALITY	1005	
123	QUALITY ASST.	1	QUALITY ASSISTANT	1006	
124	CREDENT.	1	OFFICE	1007	
125	BREAK ROOM	3	BREAK ROOM	1004	
126	BILLING & ACCOUNTING	3	BILLING & ACCOUTNING	1001	
127	CFO	1	CHIEF FINANCIAL OFFICER	1002	
128	PURCHASING	3	PURCHASING	1003	
129	MEDICAL RECORDS	3	MEDICAL RECORDS	1028	
130	MED REC. MAN.	1	MEDICAL RECORDS MANAGER	1029	
131	STORAGE	3	STORAGE	1030	
132	TLT	2	RESTROOM	1031	
133	STOR.	3	STORAGE	1038	
134	TLT	2	RESTROOM	1032	
135	SERVER	3	SERVER	1037	
136	MECH.	3	MECHANICAL	1036	
137	IT	3	IT	1033	
138	ELEC.	3	ELECTRICAL	1035	
139	CIO	1	CHIEF INFORMATION OFFICER	1034	
140	WAITING				
141	SHELL				
142	TLT	2	RESTROOM	1039	
143	TLT	2	RESTROOM	1040	
144	CHECK-IN				
145	VESTIBULE				
146	CORRIDOR				
147	OPT. EXAM	3	EXAM	1041	
148	TLT	2	RESTROOM	1042	
149	OPT. TEST	3	OPTICAL TEST	1043	
150	OFFICE	1	OFFICE	1044	
151	OFFICE	1	OFFICE	1045	
152	STOR.	3	STORAGE	1046	
153	OPT. EXAM	3	EXAM	1047	
154	OPT. EXAM	3	EXAM	1049	
155	OPT. EXAM	3	EXAM	1048	

GENERAL SIGNAGE NOTES:

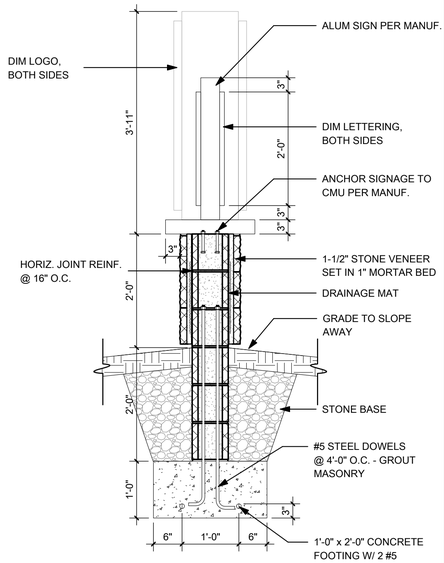
1. ALL SIGNAGE SHALL BE APPROVED BY OWNER PRIOR TO ORDERING.
2. SIGNAGE SUPPLIER SHALL USE SIGN NUMBERING BASED ON BEST WAYFINDING PRACTICES AND OWNER PREFERENCES. SIGN NUMBERING SHALL NOT BE BASED ON THE ROOM NUMBERS OF THE CONSTRUCTION DOCUMENTS.



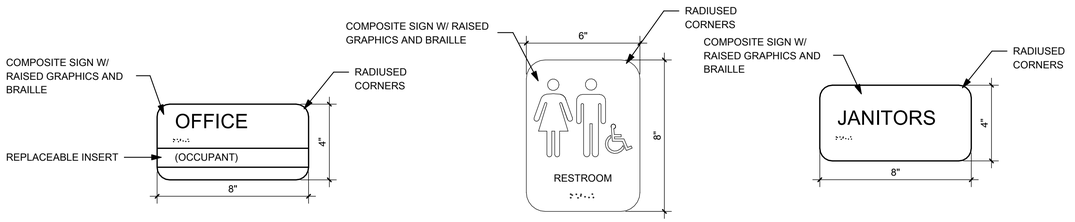
5 A7.03 MONUMENT SIGN ELEVATION - FRONT & BACK
1/2" = 1'-0"



2 A7.03 ENTRANCE SIGNAGE ELEVATION
1/4" = 1'-0"



6 A7.03 MONUMENT SIGN SECTION
3/4" = 1'-0"

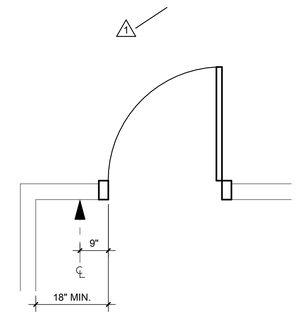


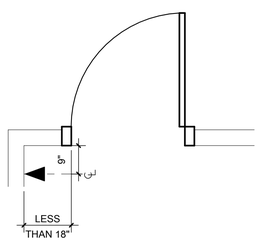
Signage Requirements

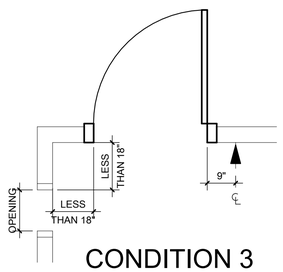
Color: Backplate – TBD
Face – TBD
Accent/Text – TBD

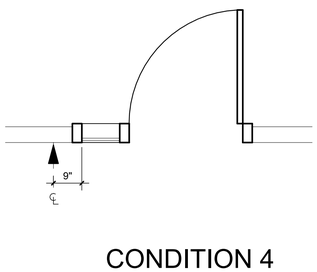
1. **Restrooms:** Pictogram with Text and Braille
   a. **Size: 6" x 8"**
2. **Room Numbers:** Text and Braille
   · **Size: 8" x 4"**

Mounting Heights: Tactile Characters on signs shall be located 48"minimum above the finish floor, measured from the baseline of the lowest character and 60" maximum above the finish floor, measured from the baseline of the highest characters. See attached Sheets..

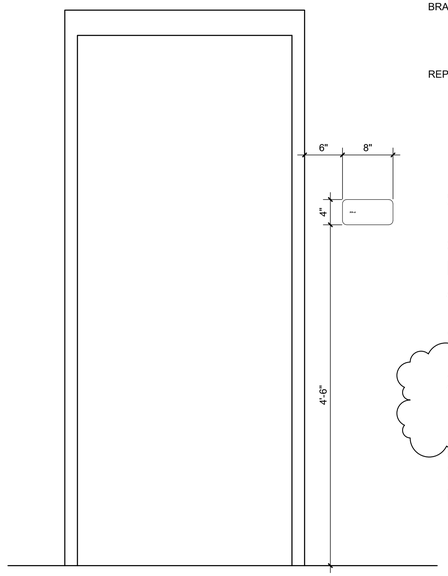








1 A7.03 ROOM SIGN CONDITIONS
1/2" = 1'-0"



4 A7.03 ROOM SIGN LOCATION
1" = 1'-0"

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STATE OF WEST VIRGINIA
CASEY C. ANDREWS
LICENSE NO. 4644
REGISTERED ARCHITECT
2/26/25

NO.	BY	DATE	DESCRIPTION
1		04/01/26	ADDENDUM #1
2		04/10/26	ADDENDUM #2

CAMDEN FAMILY HEALTH - ADMIN OFFICES
CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

DRAWN: ALB DATE: 02/26/26
CHECKED: CCA DATE: 02/26/26
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PROJECT No.
T60-11117

SIGNAGE

SHEET No.
A7.03

LAYOUT TAB: SIGNAGE
CAD FILE: Autodesk Docs://CFH Admin Office Building/ADMIN OFFICES - CFH - CENTRAL_V25.rvt
PLOT DATE/TIME: 4/10/2026 8:47:29 AM
USER: ALB

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
OR	- CONTROL VALVE W/TAMPER SWITCH
	- CHECK VALVE
	- FLOW SWITCH
FDC	- FIRE DEPARTMENT CONNECTION
PIV	- POST INDICATOR VALVE W/TAMPER SWITCH
FDV	- STANDPIPE WITH FIRE DEPARTMENT VALVE
	- SPRINKLER AND DRAIN RISER
	- BACKFLOW PREVENTOR W/TAMPER SWITCHES
	- ROOF MANIFOLD
SP	- SPRINKLER SYSTEM PIPING
F	- FIRE MAIN PIPING
F.C.	- FLUSHING CONNECTION
1	- REVISION REFERENCE
	- POINT OF DEMOLITION EXTENTS
	- POINT OF CONNECTION TO EXISTING
1 / FP-1	- ENLARGED PLAN REFERENCE: TOP-PLAN#, BOTTOM-DRAWING# SHOWN ON

GENERAL NOTES

1. THE FIRE PROTECTION SYSTEMS SHALL COMPLY WITH THE ABOVE REFERENCED NFPA STANDARDS AND THE STATE OF FLORIDA FIRE PREVENTION CODE.
2. FINAL SYSTEM ACCEPTANCE AND APPROVAL SHALL BE CONDUCTED BY LOCAL FIRE MARSHAL AND ARCHITECT/ENGINEER.
3. CONTRACTOR'S SPRINKLER SYSTEM LAYOUT (SHOP DRAWINGS), HYDRAULIC CALCULATIONS AND MATERIAL DATA SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER AND THE AUTHORITIES HAVING JURISDICTION FOR REVIEW AND APPROVAL PRIOR TO SYSTEM INSTALLATION.
4. THE FIRE PROTECTION SYSTEM DESIGN SHALL BE A DELEGATED DESIGN IN ACCORDANCE WITH FAC 61G15-32. SEE 61G15-32 COMPLIANCE NOTES.
5. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND ALL ASSOCIATED DATA.
6. PROVIDE FIRE UL LISTED STOP ASSEMBLIES FOR ALL PENETRATIONS OF SMOKE/FIRE WALLS, CEILINGS AND FLOORS. FIRE STOP ASSEMBLIES SHALL MEET ASTM E-814. MATERIALS USED WITH CPVC PIPING SHALL BE SPECIFICALLY LISTED FOR USE WITH CPVC BY THE MANUFACTURER.
7. ALL DRAIN AND DRY PIPE SYSTEM PIPING AND FITTINGS SHALL BE GALVANIZED BOTH INSIDE AND OUTSIDE.
8. INSTALL ADDITIONAL SPRINKLERS UNDER ALL EXPOSED DUCTWORK OR OBSTRUCTIONS EXCEEDING 48" IN WIDTH. PROVIDE ADDITIONAL SPRINKLERS AS REQUIRED FOR PROPER COVERAGE OF OBSTRUCTIONS IN ACCORDANCE WITH APPLICABLE NFPA CRITERIA.
9. ALL SPRINKLER HEADS INSTALLED WITHIN MECHANICAL ROOMS, STORAGE ROOMS, JANITORS CLOSETS OR AREAS SUBJECT TO MECHANICAL INJURY SHALL BE PROTECTED WITH LISTED GUARDS.
10. COORDINATE PIPE ROUTING WITH DUCT ROUTING, EQUIPMENT LOCATIONS, ELECTRICAL INSTALLATIONS AND BUILDING STRUCTURAL MEMBERS. DO NOT ROUTE PIPING OVER ELECTRICAL PANELS. PIPING ROUTED OVER ELECTRICAL PANELS SHALL BE REROUTED AT NO ADDITIONAL COST.

12. PROVIDE TAMPER SWITCHES ON ALL CONTROL VALVES.
13. SLOPE ALL PIPING TO THE SYSTEM MAIN DRAIN AS REQUIRED TO INSURE PROPER DRAINAGE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL PIPING IS DRAINABLE. ADDITIONAL DRAINS AND PLUGS SHALL BE INSTALLED WHERE REQUIRED TO COMPLY WITH THE ABOVE REFERENCED CODES.
14. ALL ROLL GROOVED AND CUT GROOVED COUPLINGS AND FITTINGS SHALL BE PROVIDED BY A SINGLE MANUFACTURER.
15. SPRINKLERS SHALL BE CENTERED IN CEILING TILES IN AREAS WITH LAY-IN TILES AND VISUALLY ALIGNED IN AREAS WITH SMOOTH CEILINGS.
16. THIS BUILDINGS STRUCTURAL SYSTEM HAS BEEN DESIGNED TO SUPPORT THE ADDITIONAL WEIGHT ASSOCIATED WITH THE SPRINKLER SYSTEM.
17. PROVIDE A PERMANENTLY ATTACHED NAME TAG TO THE RISER OR FLOOR CONTROL VALVE STATING THE REQUIRED DESIGN CRITERIA FOR EACH HYDRAULICALLY DESIGNED SYSTEM AND AREA SERVED.
18. COORDINATE PIPING WITH ALL ELECTRICAL EQUIPMENT (PANELS, TRANSFORMERS, ETC.) PRIOR TO ANY INSTALLATION. DO NOT ROUTE ANY PIPING OVER ANY ELECTRICAL PANELS UNDER ANY CIRCUMSTANCES. ANY PIPING RUN OVER PANELS SHALL BE REROUTED AT NO ADDITIONAL COST.
19. CPVC (BLAZEMASTER) PIPING SYSTEMS SHALL BE ALLOWED IN LIGHT HAZARD AREAS AS ALLOWED BY CODE UNLESS OTHERWISE NOTED IN THESE DRAWINGS AND SPECIFICATIONS. CONTRACTOR SHALL VERIFY PIPING SYSTEM PRESSURES ARE WITHIN THE ALLOWABLE TOLERANCES FOR CPVC PIPING.
20. THROUGH PENETRATIONS OF FIRE RESISTANCE RATED HORIZONTAL ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER (2.49 PA). THE SYSTEM SHALL HAVE AN F RATING/T RATING OF NOT LESS THAN 1 HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED. SEE ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS, RATINGS AND DETAILS.

    EXCEPTIONS:
    A. FLOOR PENETRATIONS CONTAINED AND LOCATED WITHIN THE CAVITY OF A WALL ABOVE THE FLOOR OR BELOW THE FLOOR DO NOT REQUIRE A T RATING.
21. UNLESS REQUIRED OTHERWISE BY THE LOCAL AHJ, SPRINKLERS MAY BE OMITTED IN ELECTRIC TRACTION ELEVATOR HOISTWAYS WHEN THE INSTALLATION COMPLIES WITH NFPA 13, SECTION 8.15.5.3. IF THE ELEVATOR UTILIZES COMBUSTIBLE SUSPENSION COMPONENTS THAT DO NOT MEET THE FT-1 RATING REQUIREMENTS INDICATED IN NFPA 13, SECTION 8.15.5.7, SPRINKLERS SHALL BE PROVIDED AT THE TOP AND BOTTOM OF THE HOISTWAYS.

FIRE PROTECTION DESIGN CRITERIA

THE FOLLOWING PUBLICATIONS SHALL BE USED AS A REFERENCE FOR DESIGN OF THE FIRE SUPPRESSION SYSTEM(S) ON THIS PROJECT.

1. INTERNATIONAL FIRE PREVENTION CODE - 2018
2. NFPA 13, INSTALLATION OF SPRINKLER SYSTEMS
3. NFPA 24, PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES
4. NFPA 101, LIFE SAFETY CODE

SYSTEM TYPE: NFPA 13 - SEE ARCHITECTURAL LIFE SAFETY INFORMATION

ENTIRE BUILDING (EXCEPT AS NOTED):

OCCUPANCY CLASSIFICATION:	LIGHT HAZARD
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	DESIGN DENSITY:
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1/2"
DURATION OF SUPPLY:	30 MIN.
MAXIMUM COVERAGE/SPRINKLER HEAD:	225 SQ. FT.
HOSE STREAM ALLOWANCE:	100 GPM

STORAGE, MECHANICAL, ELECTRICAL ROOMS AND SIMILAR AREAS:

OCCUPANCY CLASSIFICATION:	ORDINARY HAZARD GROUP I
SYSTEM TYPE:	WET PIPE
DESIGN DENSITY:	0.15 GPM/SQ. FT.
HYDRAULIC REMOTE AREA:	1,500 SQ. FT.
SPRINKLER ORIFICE SIZE:	1/2"
DURATION OF SUPPLY:	60 - 90 MIN.
MAXIMUM COVERAGE/SPRINKLER HEAD:	130 SQ. FT.
HOSE STREAM ALLOWANCE:	250 GPM

2

FLOW TEST DATA

TEST DATA:	FLOW HYDRANT	MONITORING HYDRANT
HYDRANT #:	XX	XX
STATIC PRESSURE:	XX PSI	XX PSI
RESIDUAL PRESSURE:	-- PSI (PITOT)	XX PSI
FLOW:	XXXX GPM	
TEST CONDUCTED BY:	X	
DATE:	XX-X-201X	

WATER SUPPLY NOTES:

1. THERE HAVE BEEN NO REPORTED CASES OF M.I.C.

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2/26/2026

NO.	BY	DATE	DESCRIPTION
2		04/10/2026	ADDENDUM 2

ADMINISTRATIVE OFFICES
CAMDEN FAMILY HEALTH
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CONSTRUCTION DOCUMENTS

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GENERAL NOTES, DETAILS & LEGENDS

SHEET No.
F1.01

LAYOUT TAB: GENERAL NOTES, DETAILS & LEGENDS
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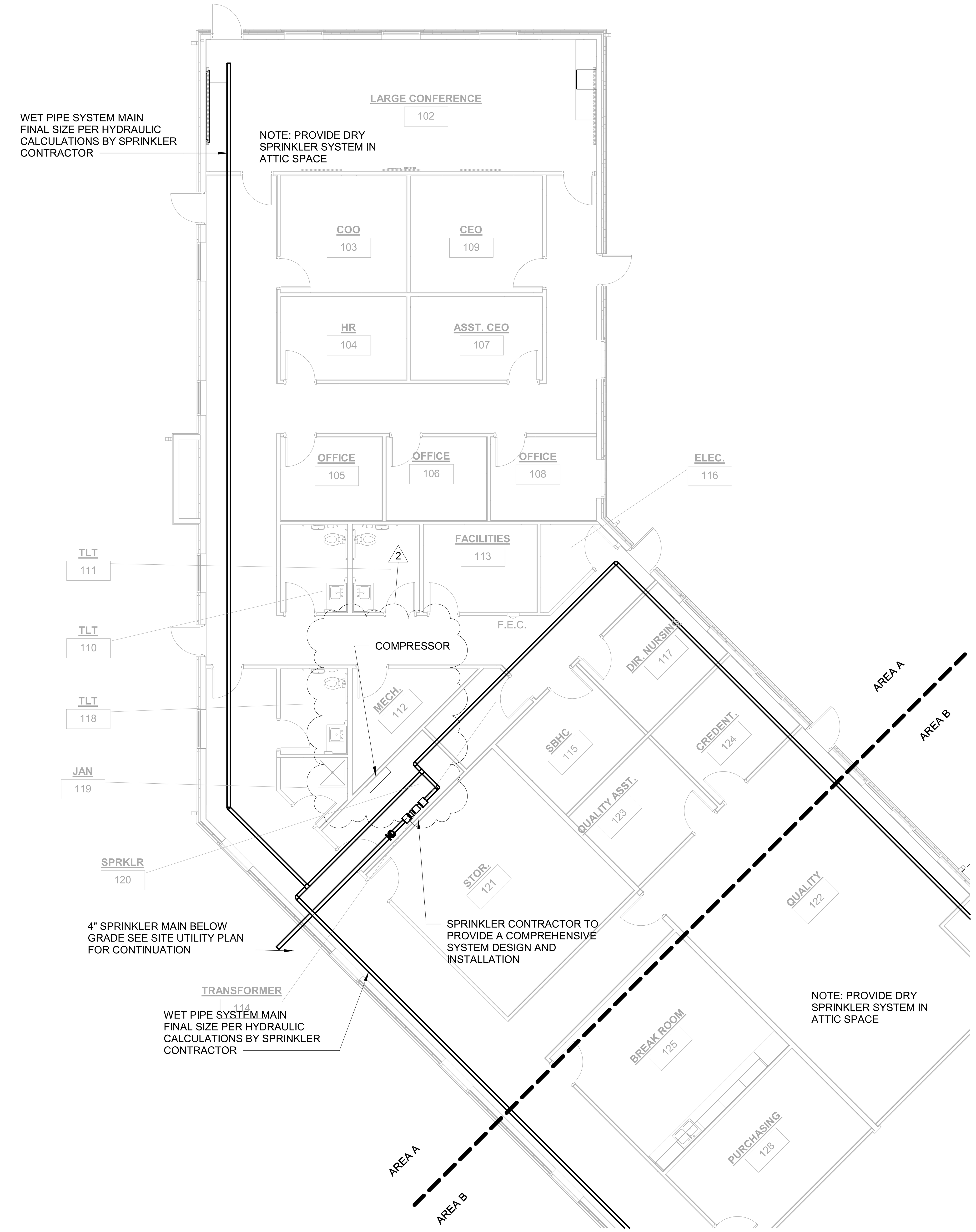

FIRE PROTECTION FLOOR PLAN A
1/8" = 1'-0"

LAYOUT TAB: FIRE PROTECTION FLOOR PLAN A
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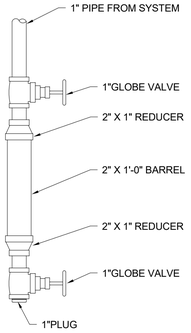
FIRE PROTECTION
FLOOR PLAN A

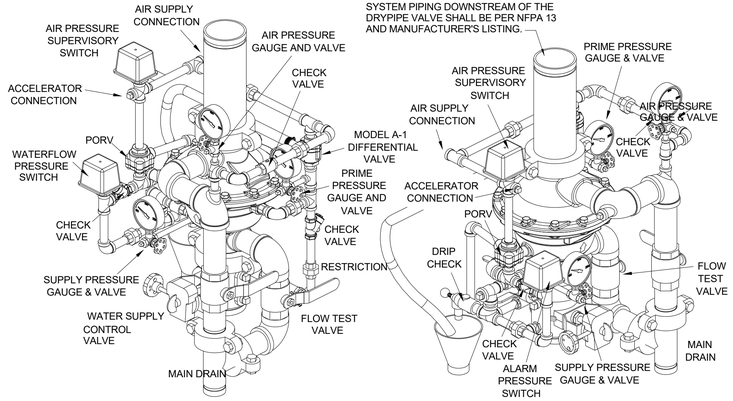
SHEET No.

F2.01



DRY PIPE SYSTEM AUXILIARY DRAIN DETAIL

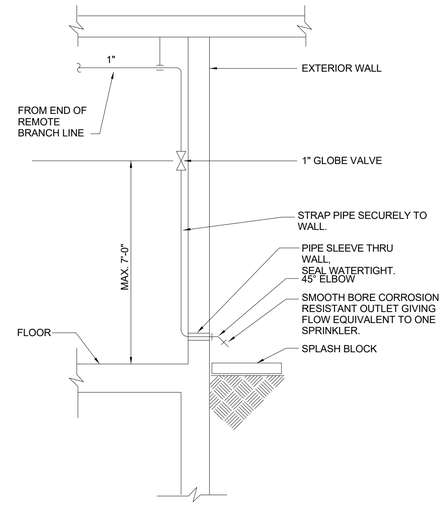
NO SCALE



DRYPIPE SYSTEM RISERS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13, COMPLETE WITH ALL REQUIRED APPURTENANCES (E.G. CONTROL VALVE WITH TAMPER SWITCH, DRYPIPE VALVE WITH TRIM, AIR COMPRESSOR, LISTED AIR MAINTENANCE DEVICE, PRESSURE SWITCHES, GAUGES, DRAINS, ETC). COORDINATE ALARM CONNECTIONS FOR PRESSURE AND TAMPER SWITCHES WITH FIRE ALARM CONTRACTOR.

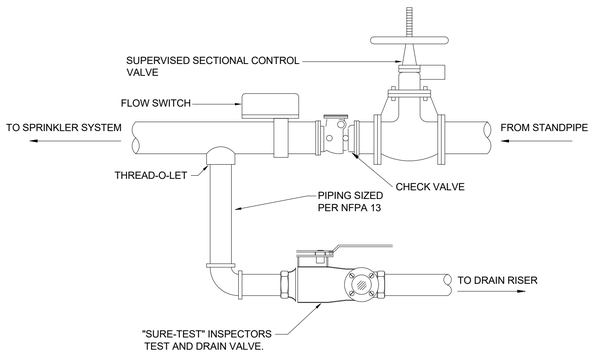
DRY PIPE VALVE ASSEMBLY DETAIL

NO SCALE



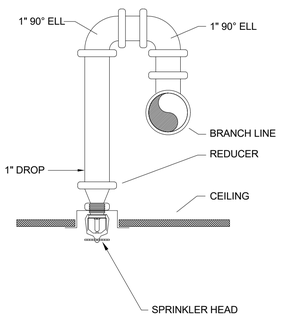
INSPECTOR'S TEST DETAIL

NO SCALE



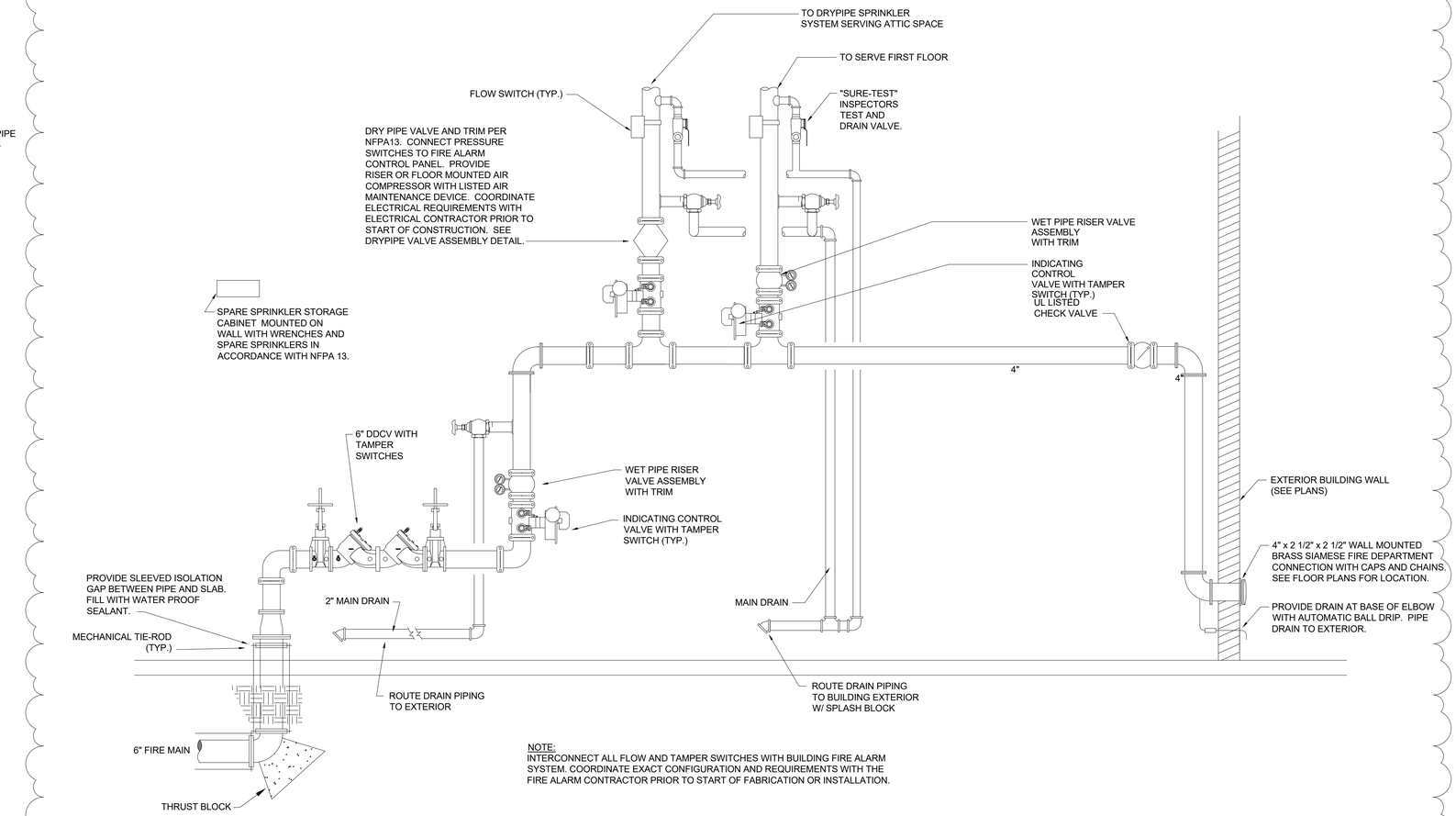
FLOOR CONTROL VALVE ASSEMBLY

NO SCALE



TYPICAL RETURN BEND

NO SCALE



NOTE:
INTERCONNECT ALL FLOW AND TAMPER SWITCHES WITH BUILDING FIRE ALARM SYSTEM. COORDINATE EXACT CONFIGURATION AND REQUIREMENTS WITH THE FIRE ALARM CONTRACTOR PRIOR TO START OF FABRICATION OR INSTALLATION.

FIRE SPRINKLER RISER DETAIL

NO SCALE

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2/26/2026

NO.	BY	DATE	DESCRIPTION
2		04/10/2026	ADDENDUM 2

ADMINISTRATIVE OFFICES
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CONSTRUCTION DOCUMENTS

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DETAILS - FIRE PROTECTION

SHEET No.
F5.01

LAYOUT TAB: DETAILS - FIRE PROTECTION
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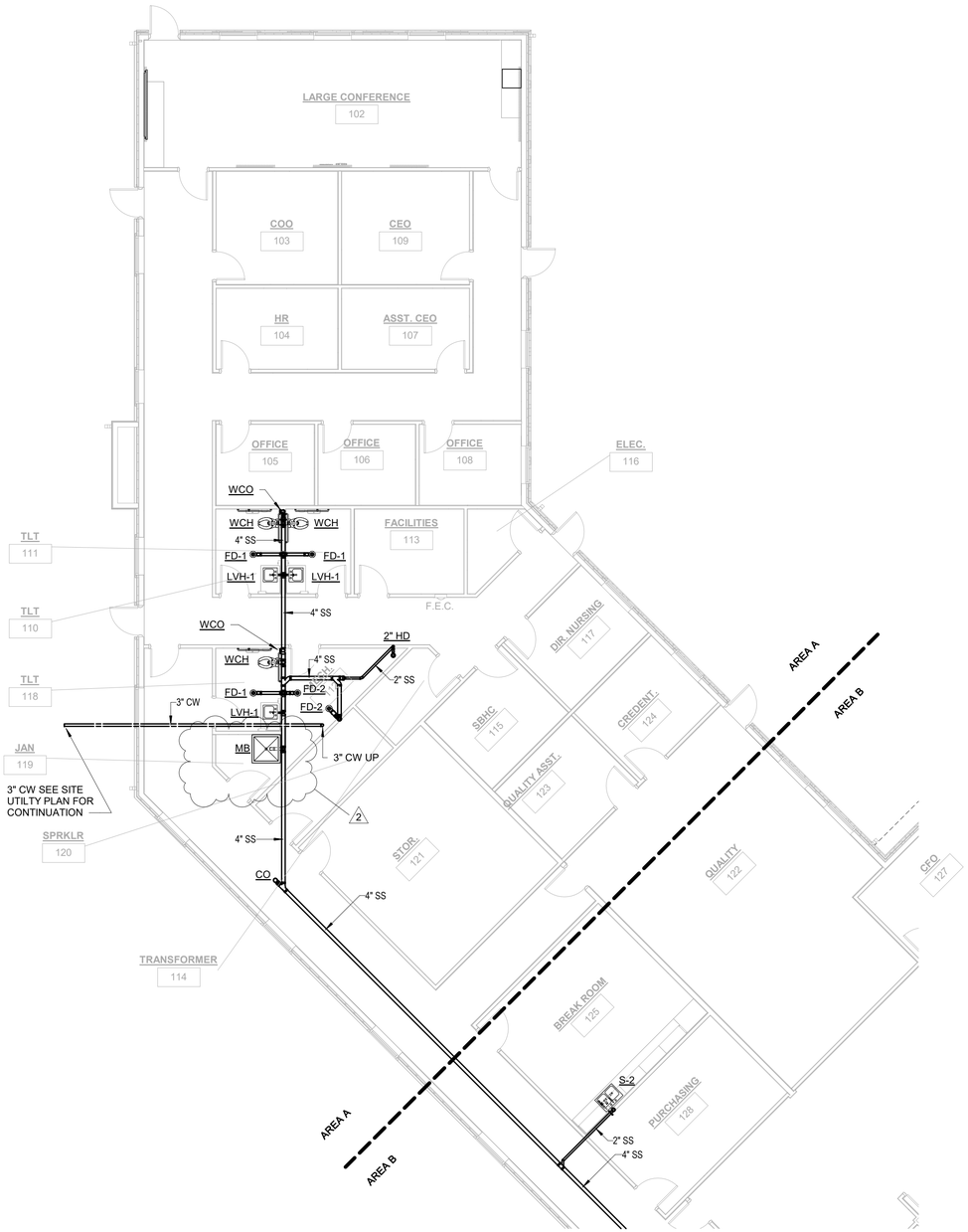

PLUMBING BELOW FLOOR PLAN A
1/8" = 1'-0"

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PLUMBING BELOW FLOOR PLAN A

SHEET No.
P2.01

LAYOUT TAB: PLUMBING BELOW FLOOR PLAN A
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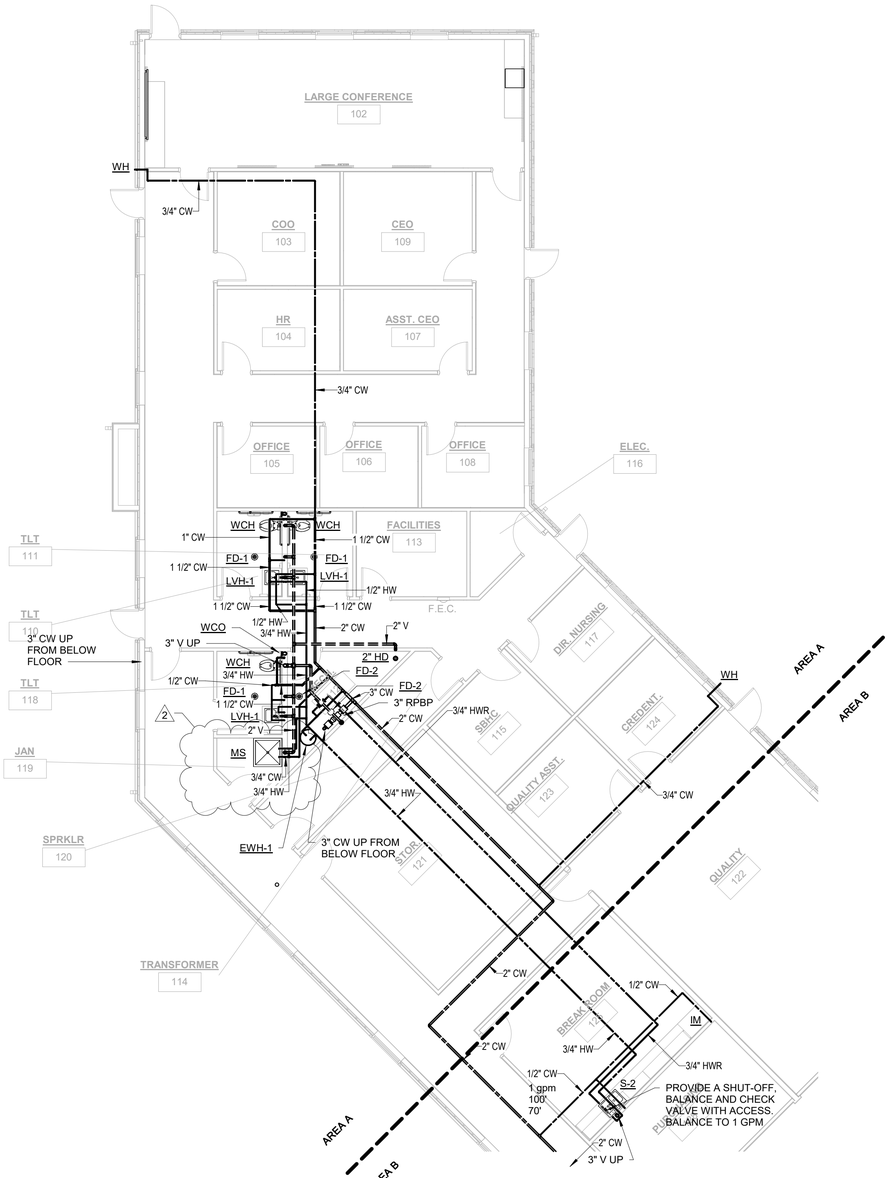

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1/8" = 1'-0"

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PLUMBING FLOOR PLAN A

SHEET No.

P2.03

LAYOUT TAB: PLUMBING FLOOR PLAN A
CAD FILE: Autodesk Docs://CFH Admin Office Building/CFH_Admin_MEP_R25.rvt
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PLOT DATE/TIME: 4/10/2026 1:08:13 PM

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION	MTG. HEIGHT UNO
	GENERAL / RACEWAY SYSTEMS	
(A)	PLAN NOTE	
	EQUIPMENT SYMBOL - SEE LIST ON DWGS.	
	POWER AND LIGHTING SYSTEMS	
	DIRECT CONNECTION	
14-15R	SINGLE RECEPTACLE, THREE PHASE, NEMA CONFIGURATION NUMBER DENOTES TYPE	
EWC	DENOTES: RECEPTACLE FOR ELECTRIC WATER COOLER MOUNT TO BE CONCEALED BY WATER COOLER	
	GROUNDING TYPE DUPLEX RECEPTACLE	18" AFF
WP	DUPLEX RECEPTACLE WITH WEATHERPROOF COVER.	18" AFF
	DOUBLE DUPLEX RECEPTACLE MOUNTED IN TWO-GANG BOX	18" AFF
GFCI	GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE	48" AFF
	TWISTLOCK 30A 208V L6-30A RECEPTACLE	
	CEILING MOUNTED LED LIGHT FIXTURE	
	WALL MOUNTED LED LIGHT FIXTURE	
	SURFACE OR RECESSED LED LIGHT FIXTURE	
	SURFACE OR RECESSED LED LIGHT FIXTURE WITH EMERGENCY BATTERY PACK	
	WALL MOUNTED EMERGENCY LIGHTING UNIT	
CLG. WALL	CEILING OR WALL MOUNTED, SINGLE OR DOUBLE FACE, LIGHTED EXIT SIGN WITH DIRECTIONAL ARROWS AS INDICATED, SHADED PORTION INDICATES POSITION OF FACE(S).	
	CEILING OR WALL MOUNTED, SINGLE OR DOUBLE FACE, LIGHTED EXIT SIGN WITH DIRECTIONAL ARROWS AS INDICATED, AND REMOTE WEATHERPROOF HEAD. SHADED AREA INDICATES POSITION OF FACE(S).	
$	SINGLE POLE TOGGLE SWITCH	48" AFF
$3	THREE-WAY TOGGLE SWITCH	48" AFF
$M	MANUAL MOTOR SWITCH WITHOUT THERMAL OVERLOAD PROTECTION	
$T	MANUAL MOTOR SWITCH WITH THERMAL OVERRIDE PROTECTION	
	PANELBOARD, SEE PANEL SCHEDULES ON DRAWINGS FOR RATING AND SIZE	72" AFF
	MOTOR CONNECTION	72" AFF
	MAGNETIC MOTOR STARTER	72" AFF
	COMBINATION MAGNETIC MOTOR STARTER AND FUSIBLE DISCONNECT SWITCH	72" AFF
	FUSED SAFETY DISCONNECT SWITCH, HEAVY DUTY, "NFSS" DENOTES NON-FUSED SAFETY SWITCH.	
	TELEPHONE / DATA/SECURITY SYSTEMS	
	TELEPHONE AND/OR DATA OUTLET, TWO-GANG BOX W/ 1" DUAL CONDUIT TO ABOVE ACCESSIBLE CEILING. TWO CABLES TO SERVER.	18" AFF
	SECURITY CAMERA	
	FIRE ALARM SYSTEM/EMERGENCY GENERATOR	
M	MANUAL FIRE ALARM PULL STATION	48" AFF
S	SMOKE DETECTOR	
F	COMBINATION AUDIBLE/VISUAL (STROBE) FIRE ALARM SIGNAL. NUMBER DENOTES CANDELA	80" AFF
	VISUAL (STROBE) FIRE ALARM SIGNAL, NUMBER DENOTES CANDELA	80" AFF
FS	SPRINKLER WATER FLOW SWITCH, FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR	
TS	SPRINKLER VALVE TAMPER SWITCH, FURNISHED AND INSTALLED BY SPRINKLER CONTRACTOR, WIRED BY ELECTRICAL CONTRACTOR	
ANN	FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL	
FACP	FIRE ALARM CONTROL PANEL	
CR	CARD READER	
H	HEAT DETECTOR	
HA	HANDICAP ASSISTED DOOR BUTTON	
EL	ELECTRIC LOCK	
WAP	WIRELESS ACCESS POINT. PROVIDE (2) DATA OUTLETS AT CEILING.	

2

GENERAL ELECTRICAL NOTES

1. COORDINATE LOCATIONS OF CEILING-MOUNTED LIGHTING FIXTURES, SPEAKERS AND OTHER ITEMS WITH THE CEILING PATTERN AND MECHANICAL EQUIPMENT.
2. CENTER WALL-MOUNTED LIGHTING FIXTURES DIRECTLY OVER ANY RELATED LAVATORY, MIRROR OR OTHER EQUIPMENT.
3. LOCATE FLOOR SERVICE FITTINGS, FLOOR BOXES AND FLOOR CONDUIT TERMINATIONS APPROXIMATELY AS INDICATED, EXACTLY AS NECESSARY OR AS DIRECTED TO COORDINATE WITH THE ASSOCIATED FURNISHINGS OR EQUIPMENT.
4. LOCATE DUPLEX RECEPTACLES DESIGNATED "EWC" TO BE CONCEALED BY THE ASSOCIATED WATER COOLER.
5. LOCATE SNAP SWITCHES APPROXIMATELY 4 TO 6 INCHES FROM THE LATCH SIDE OF THE RELATED DOOR FRAME WHERE POSSIBLE, EXCEPT AS NOTED OTHERWISE.
6. LOCATE SNAP SWITCHES DIRECTLY UNDER THERMOSTATS WHERE THEY ARE SHOWN IN CLOSE PROXIMITY (SEE MECHANICAL DRAWINGS).
7. LOCATE WALL BOXES APPROXIMATELY AS INDICATED, EXACTLY AS DIRECTED OR AS NECESSARY TO ACHIEVE SYMMETRY AND COORDINATED WITH THE BUILDING, FINISHES AND EQUIPMENT.
8. LOCATE ALL BOXES TO BE ACCESSIBLE.
9. MOUNT FLUSH BOXES WITH THEIR FRONT EDGES EVEN WITH THE FINISHED SURFACE OF COMBUSTIBLE MATERIALS, WITHIN 1/4 INCH OF NON-COMBUSTIBLE MATERIALS.
10. MOUNT SINGLE-GANG BOXES WITH THE LONGER DIMENSION VERTICLE EXCEPT AS NOTED OTHERWISE. MOUNT ALL BOXES AND PLATES PLUM.
11. DO NOT INSTALL BOXES BACK TO BACK ON BOTH SIDES OF A PARTITION. OFFSET BOXES A MINIMUM OF 6 INCHES EXCEPT AS NOTED OTHERWISE.
12. LOCATE ALL RACEWAYS TO AVOID INTERFERENCE WITH DUCTS, PIPES, MECHANICAL EQUIPMENT, WITH THE REMOVAL OF CEILING TILE, OR WITH ACCESS TO EQUIPMENT THAT REQUIRES PERIODIC ADJUSTMENT OR MAINTENANCE.
13. DO NOT SUPPORT RACEWAYS OR EQUIPMENT FROM PIPES, DUCTS, OR A CEILING SUSPENSION SYSTEM.
14. BRACH CIRCUIT AND FEEDERS ARE DESIGNATED BY A NUMBER AND LETTER.
15. INSTALL FEEDER RACEWAYS WITH NO MORE THAN 3 CURRENT-CARRING CONDUCTORS PLUS A NEUTRAL CONDUCTOR, PLUS A GROUND CONDUCTOR.
16. INDICATED BRANCH CIRCUIT CONDUCTOR SIZES ARE BASED ON NO MORE THAN 3 CURRENT- CARRYING CONDUCTORS AND A NON-CURRENT-CARRYING NEUTRAL CONDUCTOR IN EACH RACEWAY. WHERE THE NUMBER OF CONDUCTORS EXCEEDS THIS AMOUNT, ADJUST THE CONDUCTOR SIZES IF AND AS NECESSARY TO ACCOUNT FOR DERATING THEIR AMPACITY IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
17. FOR EACH INDICATED CONNECTION TO EQUIPMENT PROVIDE AN OUTLET BOX AND FLEXIBLE CONDUIT AS APPROPRIATE FOR THE ASSOCIATED EQUIPMENT. WHERE THE EQUIPMENT INCLUDES A CORD AND PLUG, PROVIDE A COMPATIBLE RECEPTACLE. WHERE REQUIRED BE CODE PROVIDE AN ADJACENT DISCONNECT SWITCH.
18. FROM EACH FLUSH MOUNTED PANELBOARD EXTEND A MINIMUM OF THREE EMPTY 3/4" CONDUITS TO ABOVE AN ACCESSIBLE CEILING AND CAP.
19. PROVIDE AN ADJACENT DISCONNECT SWITCH FOR EACH ELECTRIC UNIT HEATER.
20. IN MECHANICAL ROOMS ADJUST LIGHTING FIXTURE LOCATIONS AS NECESSARY TO COORDINATE WITH EQUIPMENT AND TO PROVIDE OPTIMUM ILLUMINATION.
21. LOCATE TV AND DATA OUTLETS APPROXIMATELY AS SHOWN ON DRAWINGS. COORDINATE EXACT LOCATIONS WITH ARCHITECT.
22. WHERE EMERGENCY LIGHTING FIXTURES ARE CONTROLLED BY ONE OR MORE WALL SWITCHES, PROVIDE AN UNSWITCHED CIRCUIT CONDUCTOR FOR OPERATION OF THE EMERGENCY CONTROLS.
23. WHERE LIGHTING FIXTURES ARE SHOWN CONTROLLED BY TWO SWITCHES, FOR TWO LEVEL CONTROL, CONNECT THE OUTSIDE LAMPS TO ONE SWITCH AND THE INSIDE LAMPS TO THE OTHER SWITCH.
24. PROVIDE WEATHERPROOF ADJUSTABLE PHOTOCELL CONTROL UNIT IN ACCESSIBLE ROOF LOCATIONS TO PROVIDE AUTOMATIC LIGHT CONTROLS AS INDICATED. PROVIDE ASSOCIATED RELAYS AND/OR CONTACTORS AS NECESSARY. LOCATE CONTACTORS OR RELAYS ABOVE ACCESSIBLE CEILINGS OR ON WALLS IN MECHANICAL ROOMS.
25. PROVIDE A SEPARATE NEUTRAL CONDUCTOR FOR EACH DIMMED LIGHTING CIRCUIT.
26. COORDINATE OUTLET LOCATIONS AND CIRCUIT RATINGS WITH THE EQUIPMENT SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS AND WITH ALL EQUIPMENT AND FURNISHINGS SHOWN ON THE ARCHITECTURAL DRAWINGS.
27. EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH SPECIFICATIONS AND AS REQUIRED BY THE NATIONAL ELECTRIC CODE.
28. ALL WORK SHALL COMPLY WITH NFPA 70.
29. ELECTRICAL BRANCH CIRCUITS SHALL NOT SHARE A COMMON NEUTRAL.
30. SIZE ALL FUSES FOR FUSED SAFETY SWITCHES WITH EQUIPMENT MANUFACTURER.

GENERAL FIRE ALARM NOTES

1. PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL A COMPLETE AND OPERABLE FIRE ALARM SYSTEM DEVICES AS INDICATED ON THE DRAWINGS ARE SCHEMATIC IN NATURE. CONTRACTOR SHALL PROVIDE ANY ADDITIONAL WORK AS REQUIRED BY LOCAL AHJ AT NO ADDITIONAL COST TO THE OWNER.
2. IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO PROVIDE A FIRE ALARM SYSTEM IN FULL COMPLIANCE WITH THE LATEST EDITION OF (NFPA 72, WV STATE FIRE CODE, AND ADA).
3. THIS BUILDING WILL BE FULLY SPRINKLED PER NFPA 13.
4. SUPPLY A 120 VOLT CONNECTION AS REQUIRED AT ALL SYSTEMS EQUIPMENT.
5. DEVICES SHOWN ARE APPROXIMATE LOCATIONS. FIELD VERIFY ACTUAL CONDITIONS.
6. DO NOT SUPPORT RACEWAYS FROM PIPES DUCTS OR CEILING SUSPENSION SYSTEM.
7. EXPOSED RACEWAY AND BLANK COVERS SHALL BE PAINTEDTO MATCH EXISTING SURFACES.
8. SURFACES DAMAGED BY THIS CONTRACTOR SHALL BE REPAIRED.
9. WHERE SURFACES ARE REQUIRED TO BE PATCHED OR REPAIRED, SURFACE SHALL BE PAINTED TO MATCH ADJACENT SURFACE.
10. ALL JUNCTION BOX COVERS IN FIRE ALARM RACEWAY SHALL BE PAINTED RED.
11. MOUNTING HEIGHT OF FIRE ALARM STROBE SHALL BE 80" AFF.
12. SYSTEM SHALL INTERFACE WITH HOOD SUPPRESSION SYSTEM PER NFPA.

FIRE ALARM SYSTEM NOTES

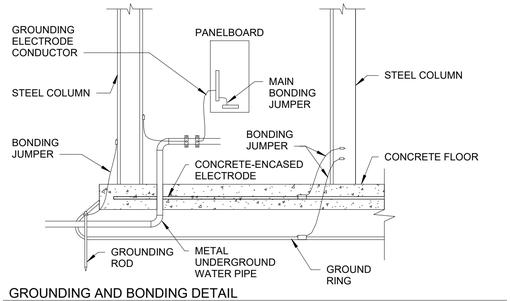
1. ALL EXTERIOR DOORS SHALL HAVE A PULL STATION MOUNTED ADJACENT TO THE DOOR. SPACING OF PULL STATIONS SHALL NOT EXCEED 200' ALONG PATH OF EGRESS.
2. FIELD VERIFY LOCATION AND QUANTITY OF AIR HANDLING UNITS GREATER THAN 2000 CFM. PROVIDE A DUCT SMOKE DETECTOR IN THE RETURN AIR DUCT OF EACH UNIT. EACH AIR HANDLER DUCT SMOKE DETECTOR SHALL BE SEPARATELY ANNUNCIATED BY THE FIRE ALARM PANEL AND THE ANNUNCIATOR. PROVIDE REMOTE LED INDICATOR AT CEILING BELOW EACH DETECTOR.
3. FIELD VERIFY LOCATION AND QUANTITY OF ELECTRICAL PANELS. PROVIDE A SMOKE DETECTOR IN EACH OF THESE ROOMS.
4. PROVIDE SMOKE DETECTORS IN CORRIDOR A MAXIMUM 15' FROM EACH END AND A MAXIMUM OF 30' ON CENTER.
5. PROVIDE STROBES IN ALL TOILETS.
6. PROVIDE HORN/STROBES AS REQUIRED BY NFPA 72. SPACING AND SOUND LEVEL SHALL BE SUCH THAT THE AUDIBLE ALARM CAN BE EFFECTIVELY HEARD ABOVE THE AMBIENT NOISE LEVEL OBTAINED UNDER NORMAL OCCUPIED CONDITIONS.
7. PROVIDE STROBES IN ALL PUBLIC SPACES EXCEPT COMMON AREAS AS DEFINED IN THE AMERICAN WITH DISABILITIES ACT. SPACING SHALL BE PER NFPA 72.

LIGHT FIXTURE SCHEDULE

MARK	MOUNTING	MANUFACTURER	MODEL	DESCRIPTION	VOLTS	WATTS
F1	POLE	LITHONIA	RSX2	RSX2 LED P6 40K R5 MVOLT SPA PE FAO DDBXD	MVOLT	111 94 244
F2	POLE	LITHONIA	RSX2	RSX2 LED P6 40K R4 MVOLT SPA PE FAO DDBXD	MVOLT	111 94 244
P1	N/A	LITHONIA	SSA	SSA 25 6J DBXD 1 2	N/A	N/A
L1	PENDANT	BETA CALCO	MICRO RING II	MRTP108, 4' & 5' DIA, 9000LM, DIRECT DIST, CABLE HUNG	120	241
L2	RECESSED	METALUX	24CZSCT3	2X4 RECESSED, SWITCHABLE LUMENS AND COLOR	120	24-47
L2E	RECESSED	METALUX	24CZSCT3	2X4 RECESSED, SWITCHABLE LUMENS AND COLOR, BATTERY BACKUP	120	24-47
L3	SUSPENDED	LITHONIA	CSVT	CSVT 48", ALO3, SWW3, MVOLT, 80CRI	MVOLT	29-50
L3E	SUSPENDED	LITHONIA	CSVT	CSVTIE7WCP 48", ALO3, SWW3, MVOLT, 80CRI, BATTERY BACKUP	MVOLT	29-50
L4	DOWNLIGHT	LITHONIA	LDN4	LDN4, ALO3, SWW1, LO4, MVOLT, 90CRI	MVOLT	26-39
L4E	DOWNLIGHT	LITHONIA	LDN4	LDN4, ALO3, SWW1, LO4, EL, MVOLT, 90CRI, BATTTERY BACKUP	MVOLT	26-39
L5	WALLPACK	LITHONIA	TWX3	TWX3, LED, ALO, 40K, MVOLT, PE, DDBXD	MVOLT	18-108
L6	RECESSED	LITHONIA	WF8	2X2 RECESSED, SWITCHABLE LUMENS AND COLOR	120	20-31
L7	RECESSED	METALUX	22C2SCT3	WF8, LED, SWITCHABLE. 90CRI	MVOLT	21
X1	SURFACE	BARRON	S900U-WB-SR	EXITRONIX LED EXIT LIGHT WITH BATTERY	120	4

GENERAL NOTES PERTAINING TO ALL FIXTURES:

1. VERIFY CEILING CONSTRUCTION TYPE WITH ARCHITECTURAL DRAWINGS TO DETERMINE WHETHER RECESSED LIGHTING FIXTURES SHALL BE FLANGE OR GRID TYPE MOUNTING.
2. DIRECTIONAL INDICATOR ON EXIT SIGNS SHALL COMPLY WITH NFPA 101 SECTION 5-10.4.1.2.
3. VERIFY VOLTAGE TO OPERATE FIXTURES WITH ELECTRICAL DRAWINGS.
4. LIGHTING FIXTURES SHALL COME COMPLETE WITH NECESSARY MOUNTING HARDWARE.
5. ALL RECESSED LIGHTING FIXTURES SHALL BE PAINTED AFTER FABRICATION
6. ANY REQUEST FOR SUBSTITUTION TO THE LIGHTING FIXTURE SCHEDULE SHALL BE OF EQUAL OR HIGHER QUALITY AS DETERMINED BY ENGINEER. ANY PERSON REQUESTING TO SUBSTITUTE FIXTURES MUST SUBMIT IN BOUND FORM A COLLECTION OF MANUFACTURES CUT SHEETS TO BE REVIEWED BY ENGINEER A MINIMUM OF (FOURTEEN) 14 DAYS PRIOR TO BID. ACCEPTED SUBSTITUTIONS WILL BE REFLECTED IN AN ADDENDUM.
7. ALL LIGHTING FIXTURE FINISHES/COLORS SHALL BE COORDINATED WITH OWNER/ARCHITECT.



GROUNDING AND BONDING DETAIL
1/16" = 1'-0"

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KENNETH E. SMITH REGISTERED 011672 STATE OF WEST VIRGINIA PROFESSIONAL ENGINEER
2/26/2026

NO.	BY	DATE	DESCRIPTION
2		04/10/2026	ADDENDUM 2

ADMINISTRATIVE OFFICES
CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
FEBRUARY 26, 2026
CONSTRUCTION DOCUMENTS

DRAWN: Author DATE: 02/26/2026
CHECKED: Checker DATE: 02/26/2026
PROJECT No.
T60-11117

LEGEND AND FIXTURE SCHEDULE
SHEET No.
E1.01

LAYOUT TAB: LEGEND AND FIXTURE SCHEDULE
CAD FILE: Autodesk Docs://CFH Admin Office Building/CFH_Admin_MEP_R25.rvt
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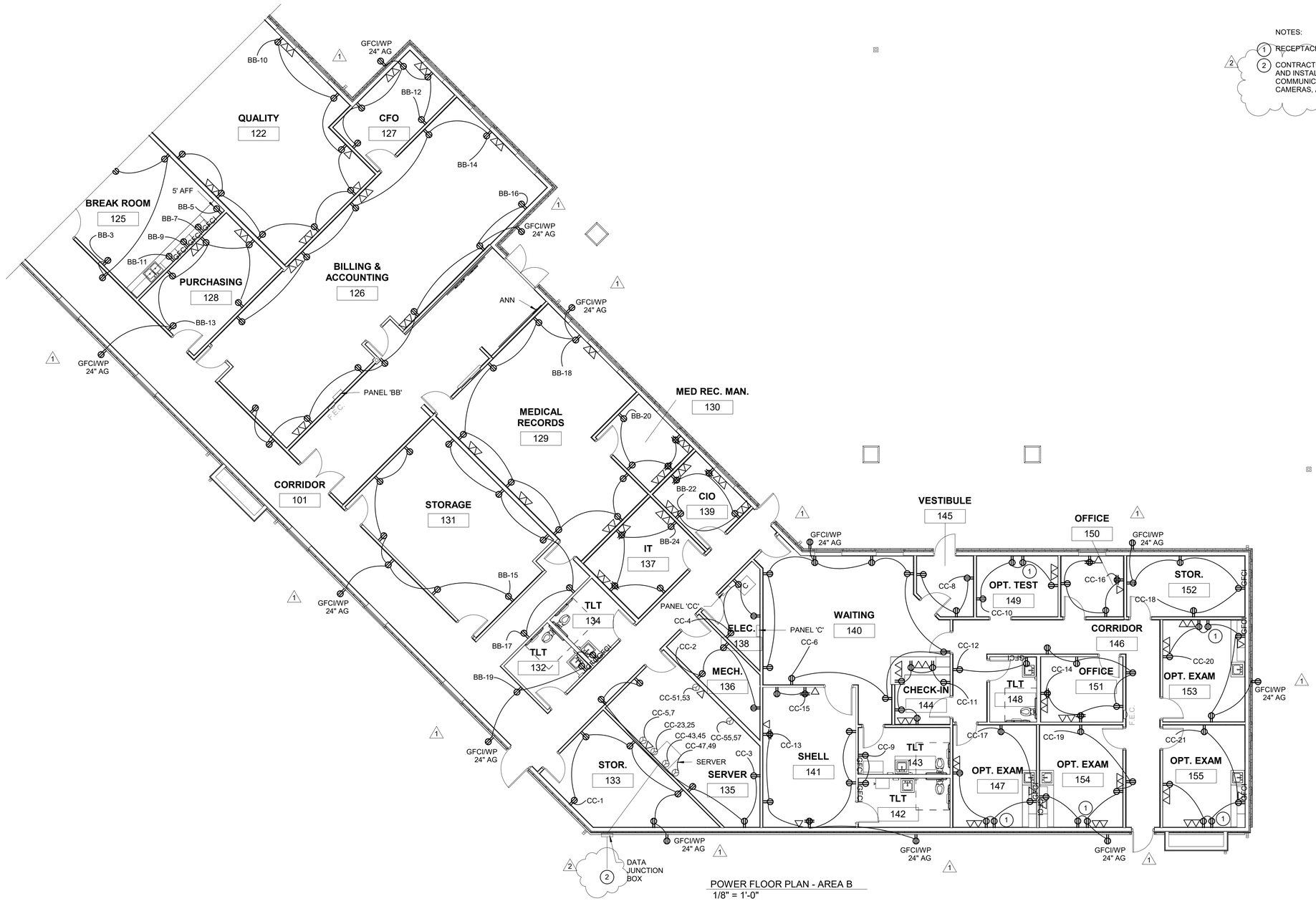

POWER FLOOR PLAN - AREA B
1/8" = 1'-0"

NOTES:

1. RECEPTACLE TO BE INSTALLED 60" AFF (5') FOR LED SCREEN.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PURCHASING AND INSTALLING FIBER AND DATA CABLES. INCLUDING COMMUNICATIONS FROM UTILITIES, ALL DATA OUTLETS, ALL CAMERAS, AND ALL SECURE ENTRANCE EQUIPMENT.

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NO.	BY	DATE	DESCRIPTION
1	BKH	04/01/2026	ADDENDUM 1
2		04/10/2026	ADDENDUM 2

ADMINISTRATIVE OFFICES

CAMDEN FAMILY HEALTH
SUMMERSVILLE, WV
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POWER FLOOR PLAN - AREA B

SHEET No.
E2.02

LAYOUT TAB: POWER FLOOR PLAN - AREA B
CAD FILE: Autodesk Docs://CFH Admin Office Building/CFH_Admin_MEP_R25.rvt
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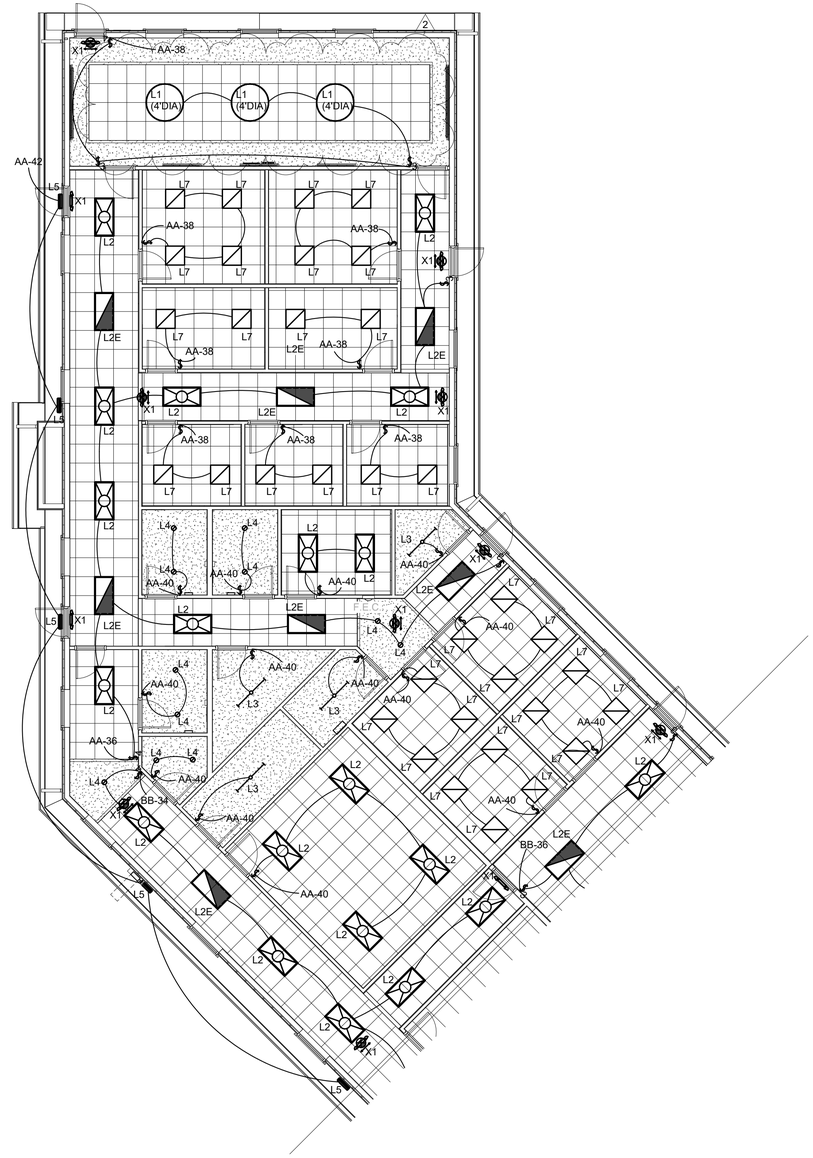
GENERAL LIGHTING NOTES:

1. ALL X1 FIXTURES IN THIS AREA SHALL BE POWERED FROM CIRCUIT AA-35.



LIGHTING RCP - AREA A
1/8" = 1'-0"

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2		04/10/2026	ADDENDUM 2

ADMINISTRATIVE OFFICES

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LIGHTING PLAN - AREA A

SHEET No.
E3.00

LAYOUT TAB: LIGHTING PLAN - AREA A
CAD FILE: Autosaft Docs (CH Admin Office Building)CH_Admin_MEP_R25.rvt
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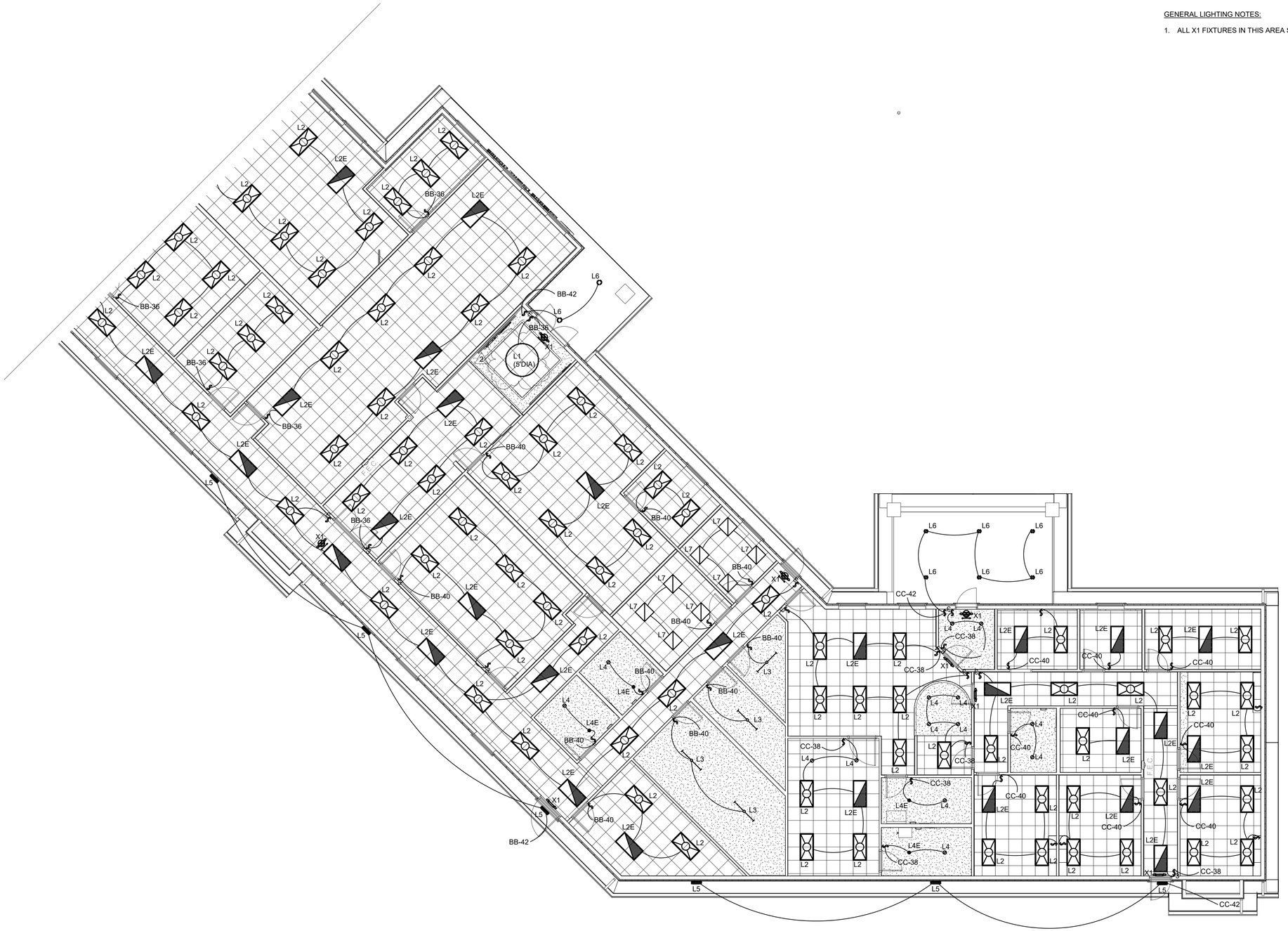
GENERAL LIGHTING NOTES:

1. ALL X1 FIXTURES IN THIS AREA SHALL BE POWERED FROM CIRCUIT BB-35 OR CC-30



LIGHTING RCP - AREA B
1/8" = 1'-0"

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LIGHTING PLAN - AREA B

SHEET No.
E3.01

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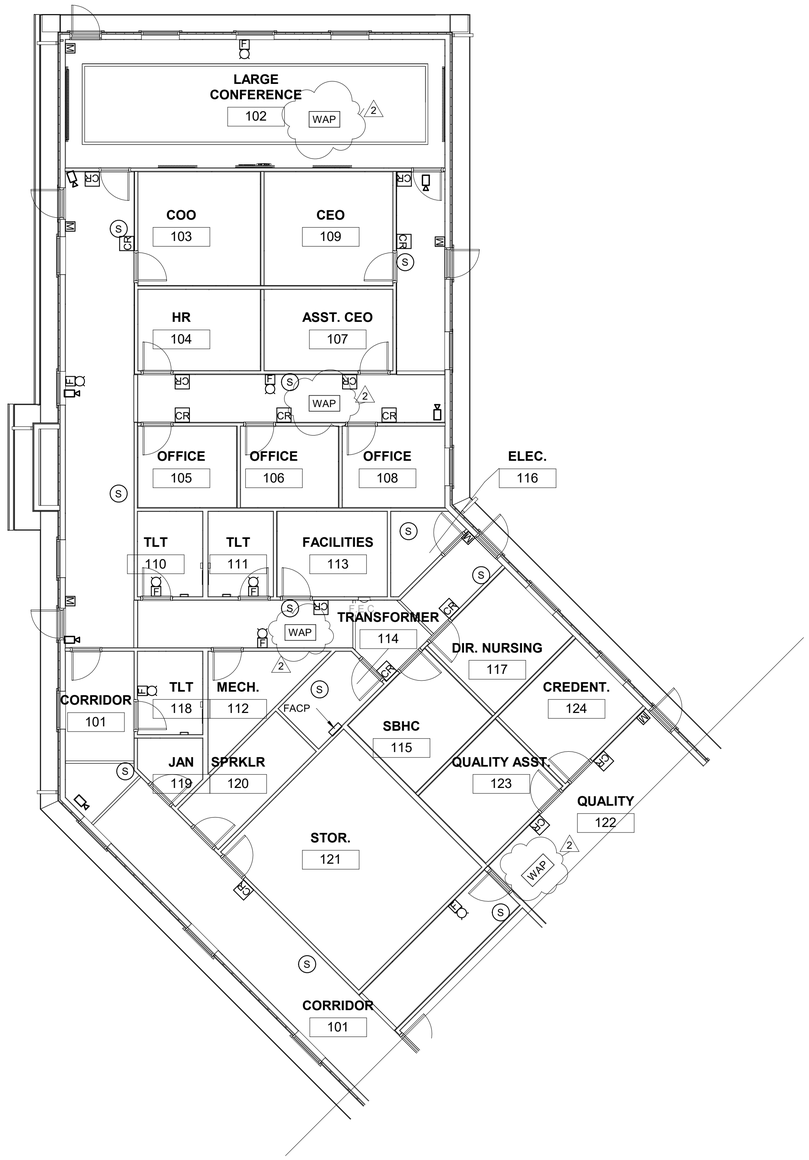

SYSTEMS RCP - AREA A
1/8" = 1'-0"

NOTES:

1. CONSULT WITH OWNER FOR ALL SECURITY CAMERA MANUFACTURER AND MODEL AND MOUNTING LOCATIONS AND AIMING POINTS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR PURCHASING AND INSTALLING FIBER AND DATA CABLES. INCLUDING COMMUNICATIONS FROM UTILITIES, ALL DATA OUTLETS, ALL CAMERAS, AND ALL SECURE ENTRANCE EQUIPMENT.
3. CAMERAS SHALL BE POWER OVER ETHERNET.
4. COORDINATE CARD READER MANUFACTURER AND MODEL WITH OWNER TO ENSURE EXISTING ACCESS CARDS WORK PROPERLY WITH NEW CARD READERS.

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SYSTEMS PLAN - AREA A

SHEET No.

E4.00

LAYOUT TAB: SYSTEMS PLAN - AREA A
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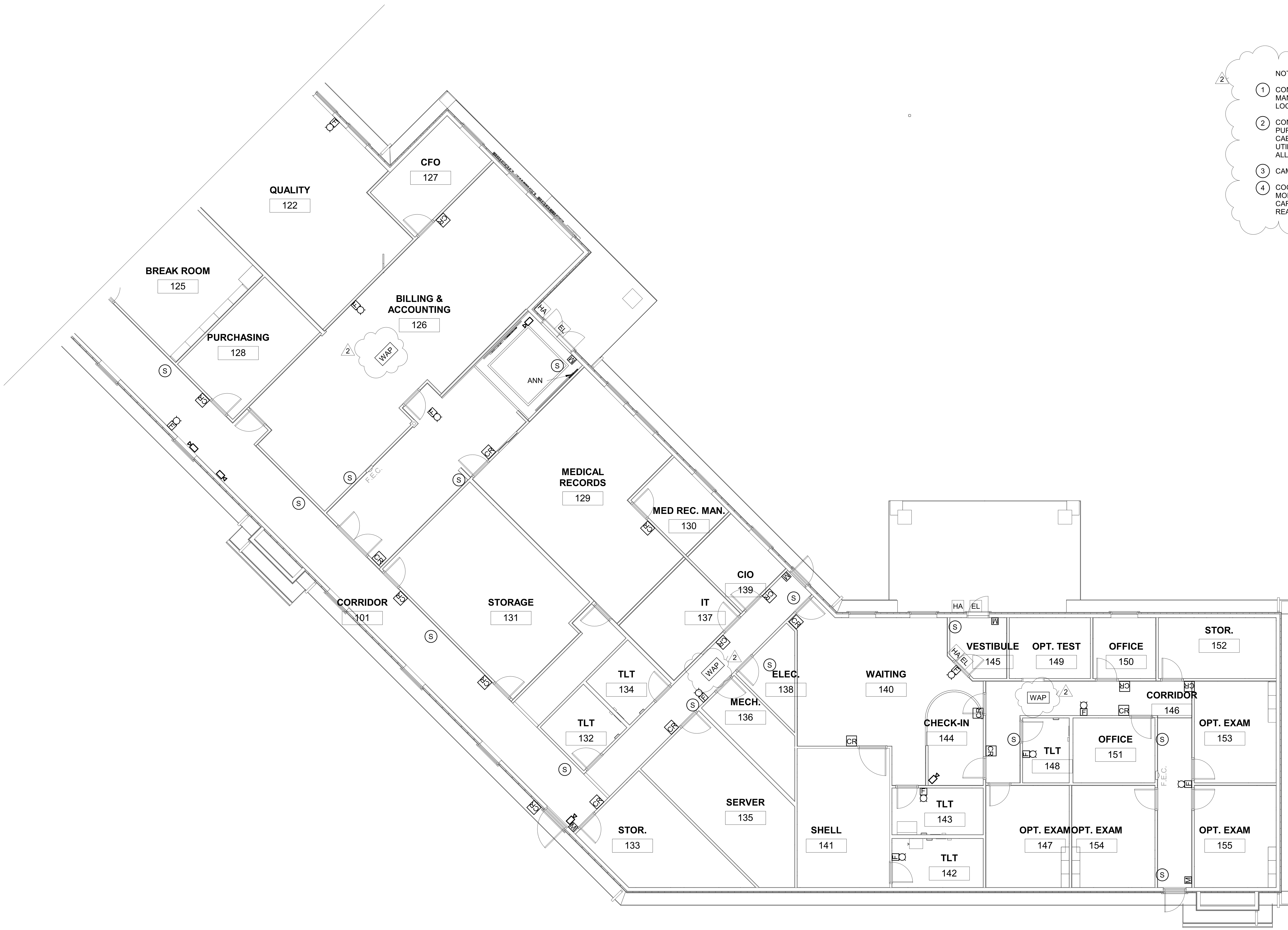

SYSTEMS RCP - AREA B
1/8" = 1'-0"

2

NOTES:

1. CONSULT WITH OWNER FOR ALL SECURITY CAMERA MANUFACTURER AND MODEL AND MOUNTING LOCATIONS AND AIMING POINTS.
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3. CAMERAS SHALL BE POWER OVER ETHERNET.
4. COORDINATE CARD READER MANUFACTURER AND MODEL WITH OWNER TO ENSURE EXISTING ACCESS CARDS WORK PROPERLY WITH NEW CARD READERS.

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SYSTEMS PLAN - AREA B

SHEET No.

E4.01

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