



ADDENDUM NO. 004

TO: All Plan Holders

RE: Montgomery County Magistrate and Court Services Building
Montgomery County Board of Supervisors
T&L Project No. 16910
IFB No. 24-08

DATE: December 1, 2023

BIDS RECEIVED DATE: December 21, 2023

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated October 11, 2023, as noted below. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject Bidder to disqualification.

This Addendum consists of **109** pages.

CLARIFICATIONS AND ANSWERS TO PRE-BID QUESTIONS AND PREVIOUS ADDENDA:

1. Addendum No. 2:
 - a. **REFER** to Sheet A201 in Addendum No. 2, Detail 4A201. **ADD** the following specification for the Perforated Aluminum Grille:
"1" SQUARE DIAMOND (64% OPEN)
WEB SIZE ¼"
FINISH: SATIN CLEAR ANODIZED
BASIS OF DESIGN: ADVANCED ARCHITECTURAL GRILLEWORKS AAG701 DIAMOND"
2. Refer to attached Pre-Bid Questions for responses.

CHANGES TO THE SPECIFICATIONS:

1. Section 01 2100 Allowances
 - a. **ADD** the following paragraphs to Section 01 2100:
 - i. Paragraph 1.5.B. Cash Allowance for Brick Type 1 (red): \$650/M, material only, no freight included. Contractor to determine quantity.
 - ii. Paragraph 1.5.C. Cash Allowance for Brick Type 2 (buff): \$700/M, material only, no freight included. Contractor to determine quantity.



2. Section 01 4000 Quality Requirements
 - a. **DELETE** Paragraph 1.2.A
3. Section 01 5100 Temporary Utilities
 - a. **DELETE** Paragraph 1.7.C.
4. Section 04 2000 Unit Masonry:
 - a. REVISE the following:
 - i. **DELETE** paragraph 2.2.A.1.a and 2.2.A.1.b.
 - ii. **ADD** paragraph 2.2.A.1.a as follows:
"Refer to Section 01 2100 Allowances for Brick Type 1 and Brick Type 2."
 - iii. **DELETE** paragraph 2.3.E.1.a and 2.3.E.1.b. Mortar Color TBD.
5. Section 03 3000 Cast-In-Place Concrete
 - a. **REPLACE** Section 03 3000 in its entirety.
6. Section 06 6100 Cast Polymer Fabrications
 - a. **ADD** Section 06 6100 in its entirety.
7. Section 07 4113 Metal Roof Panels
 - a. **ADD** the following Paragraph
2.1.A.5 Dimensional Metals Inc (DMI); www.dmimetals.com
8. Section 07 4213.23 Metal Composite Material Wall Panels
 - a. **DELETE** Paragraph 2.1.C.9.
9. Section 07 9513 Expansion Joint Cover Assemblies:
 - a. **ADD** Section 07 9513 in its entirety.
10. Section 31 2316 Excavation:
 - a. **DELETE** Paragraph 3.3.A.

CHANGES TO DRAWINGS:

1. Sheet G002:
 - a. **REPLACE** Sheet G002 in its entirety.
2. Sheet G003:
 - a. **REPLACE** Sheet G003 in its entirety.
3. Sheet C200:
 - a. **REPLACE** Sheet C200 in its entirety.
4. Sheet A002:
 - a. **REPLACE** Sheet A002 in its entirety.



5. Sheet A102:
 - a. **REPLACE** Sheet A102 in its entirety
6. Sheet A311:
 - a. **REFER** to 5/A311. **REVISE** note Brick Type **1** to read Brick Type **2**.
7. Sheet A312:
 - a. **REFER** to section 1A312. **REVISE** note "STEEL NOSING, TYPICAL" to read "RUBBER TREADS AND RISERS, REFER TO SPECIFICATIONS".
8. Sheet A501:
 - a. **REFER** to Plan Detail 12A501. **REVISE** note Composite Metal Panel **Type 1** to read Composite Metal Panel **Type 2**.
9. Sheet A602:
 - a. **REPLACE** Sheet A602 in its entirety.
10. Sheet A701:
 - a. **REFER** to Partition Type C. **REVISE** UL Assembly reference from **LS101** to **G002**.
11. Sheet A711:
 - a. **REPLACE** Sheet A711 in its entirety. Revisions made to the door schedule.
12. Sheet A712:
 - a. **REPLACE** sheet A712 in its entirety.
13. Sheet S100:
 - a. **REPLACE** sheet S100 in its entirety.
14. Sheet S200:
 - a. **REPLACE** sheet S200 in its entirety.
15. Sheet S301:
 - a. **REPLACE** sheet S301 in its entirety.
16. Sheet P001:
 - a. **REPLACE** Sheet P001 in its entirety.
17. Sheet P101:
 - a. **REPLACE** Sheet P101 in its entirety.
18. Sheet P102:
 - a. **REPLACE** Sheet P102 in its entirety.
19. Sheet P106:
 - a. **REPLACE** Sheet P106 in its entirety.



20. Sheet M101:
 - a. **REPLACE** Sheet M101 in its entirety.
21. Sheet E001:
 - a. **REPLACE** Sheet E001 in its entirety.
22. Sheet E201:
 - a. **REPLACE** Sheet E201 in its entirety.
23. Sheet E301:
 - a. **REPLACE** Sheet E301 in its entirety.
24. Sheet E601:
 - a. **REPLACE** Sheet E601 in its entirety.
25. Sheet E602:
 - a. **REPLACE** Sheet E602 in its entirety.
26. Sheet E603:
 - a. **REPLACE** Sheet E603 in its entirety.

SKETCHES

1. CSK-01: **ADDED** Curb stops.
2. CSK-02: **ADDED** Curb stops.
3. CSK-03: **ADDED** Tree protection.
4. ASK-01: **REVISED** 16A321.
5. ASK-02: **ADDED** Detail for Roof Access and Ladder in Storage C124.

Enclosures:

Pre-Bid Questions/Responses: 1-44

Specifications:

Section 03 3000

Section 06 6100

Section 07 9513

Sketches:

CSK-01, CSK-02, CSK-03, ASK-01, ASK-02

Sheets:

G002, G003, C200, A002, A102, A602, A711, A712, S100, S200, S301, P001, P101, P102,
P106, M101, E001, E201, E301, E601, E602, E603

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/6/23

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 26 0519, page 4, paragraph 2.2-I :

Specification states "Substitution of aluminum conductors for copper is permitted, when approved
by Owner and Authority Having Jurisdiction, only for the following:" and then lists allowable
conductor sizes. Will the owner allow use of aluminum on this project for bidding purposes?

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

NOTE: QUESTIONS MAY NOT BE CONSIDERED IF RECEIVED WITHIN TEN (10) CALENDAR DAYS OF THE BID DATE. All responses to questions will be made by Addendum.

Question submitted by: Barry Moran

Name

Organization: Varney, Inc.

Telephone: 5470-427-7851

Bidders shall submit form to: Thompson & Litton



**THOMPSON
& LITTON**

Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

RESPONSE:

Aluminum conductors are permitted when within size requirements stated in the specifications and are allowed by the owner

Thomas Reed

11/22/2023

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11-14-23Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910The following question concerns Drawing Sheet (number) C500

HOW DO WE PROVIDE ACCESS TO THE
JALLOPORT THROUGH THE SITE SAFETY FENCE
DURING CONSTRUCTION

The following question concerns Specification Section (number) _____, page _____, paragraph _____

Refer to updated G004 in Addendum No. 2

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

NOTE: QUESTIONS MAY NOT BE CONSIDERED IF RECEIVED WITHIN TEN (10) CALENDAR DAYS OF THE
BID DATE. All responses to questions will be made by Addendum.

Question submitted by: HAVEN R PRICE

Name

Organization: PRICE BUILDINGS INCTelephone: 540-483-7226Bidders shall submit form to: Thompson & LittonTHOMPSON
& LITTON

Email address:

prebid@T-L.com

or

FAX No.:

(540) 633-1896

PRE-BID QUESTION FORM
(Use separate Form for each question submitted.)

Date: 11-14-23

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) G004:

DEFINE THE AREAS OF THE SITE THAT HAVE TO
REMAIN OPEN FOR TRAFFIC TO THE JALYPORT
IN EACH PHASE OF CONSTRUCTION

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Refer to sheet G004 in Addendum No. 2

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: HAVEN R PRICE

Name

Organization: PRICE BUILDINGS INC

Telephone: 540-483-7226

Bidders shall submit form to: Thompson & Litton



THOMPSON
& LITTON

Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/17/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 260519, page 4, paragraph 2.1-l-a:The specifications state that aluminum conductors can be substituted for copperconductors sizes 1/0 and larger, if acceptable to the owner. Please clarify if aluminum
conductors will be accepted by the owner.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

NOTE: QUESTIONS MAY NOT BE CONSIDERED IF RECEIVED WITHIN TEN (10) CALENDAR DAYS OF THE
BID DATE. All responses to questions will be made by Addendum.Question submitted by: Kevin Doss

Name

Organization: Moore's Electrical & MechanicalTelephone: 434-369-4374Bidders shall submit form to: Thompson & LittonEmail address: prebid@T-L.com

or

FAX No.: (540) 633-1896

RESPONSE:

Aluminum conductors are permitted when within size requirements stated in the specifications and are allowed by the owner

Thomas Reed

11/22/2023

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/17/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910The following question concerns Drawing Sheet (number) E201:Keyed note #2 states to provide a POE network board for each access controllocation. Please clarify if these network boards are being provided under this contract,or the access control allowance specified in specification section 012100. If beingprovided under this contract, please provide additional information on this particularpiece of equipment (manufacturer, part number, etc.).

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Kevin Doss

Name

Organization: Moore's Electrical & MechanicalTelephone: 434-369-4374Bidders shall submit form to: Thompson & Litton**THOMPSON
& LITTON**Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

RESPONSE:

These network boards are being provided by the access control allowance specified in specification section 01 2100.

Thomas Reed

11/20/2023

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/17/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 260519, page 3, paragraph 2.1-E :

The specifications state metal clad cable may be used for fixture whips and receptacle
circuits within walls and above accessible ceilings. Please clarify if metal clad cable
can be used for overhead horizontal branch wiring for lighting fixture circuits in the
same way it is approved for receptacle circuits.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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BID DATE. All responses to questions will be made by Addendum.

Question submitted by: Kevin Doss

Name

Organization: Moore's Electrical & MechanicalTelephone: 434-369-4374Bidders shall submit form to: Thompson & LittonEmail address: prebid@T-L.com

or

FAX No.: (540) 633-1896

RESPONSE:

Metal clad cabling can be used for overhead horizontal branch wiring for light fixtures, beyond the 6ft maximum allowance for the fixture whip. For both lighting and receptacle circuits, the home run from the panel to the 1st device shall be wire in conduit, paragraph 2.1.E.

Thomas Reed

11/22/2023

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/17/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 260536, page 1, paragraph _____:A specification section on cable tray is included, but no tray is shown on the electrical drawings. If required, can a cable tray lay-out for this project be provided?

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Kevin Doss

Name

Organization: Moore's Electrical & MechanicalTelephone: 434-369-4374Bidders shall submit form to: Thompson & LittonEmail address: prebid@T-L.com

or

FAX No.: (540) 633-1896

RESPONSE:

Provide ladder type cable tray 12"Wx4"D the length of the room from the corridor to IT racks in IT rooms C117 and M114. J-hook style supports are permitted (specification 27 0529 paragraph 2.1) above access ceilings for cable distribution outside of the IT rooms. Areas with hard ceilings shall have cabling installed in conduits. J-hooks and conduits shall provide space for 25% spare.

Thomas Reed

11/22/2023

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/17/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 284600, page 6, paragraph 2.2:

The specification states to provide a new automatic fire detection and alarm system for this project. Please clarify if this is a new system covering the magistrate, court services, and new sally port areas of the building, or if this is to be an extension of an existing system that already protects the existing structure.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Kevin Doss

Name

Organization: Moore's Electrical & MechanicalTelephone: 434-369-4374Bidders shall submit form to: Thompson & Litton
**THOMPSON
& LITTON**
Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

RESPONSE:

It is intended that a new standalone fire alarm system be provided for the magistrate and court services, separate from the existing jail building's fire alarm system. The fire alarm devices in new sallyport S101 shall be connected to the existing fire alarm system in the existing jail building.

Thomas Reed

11/20/2023

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11-20-2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

Please confirm whether or not structured cabling for data/voice is in the bid scope.

The low-voltage responsibility matrix on plan E-601 indicates that structured cabling is in the EC's scope.

The legend on plan E-001, however, states "Rough-in only. Cabling and device by others."

If in the bid scope, please furnish the numbers of cables required per location, telecom room buildout requirements (racks, ladder), and the fiber backbone specifications.

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Will Schneider

Name

Organization: IES CommunicationsTelephone: 540-874-6232Bidders shall submit form to: Thompson & Litton**THOMPSON
& LITTON**Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

RESPONSE:

Structured cabling for both data/voice is included in the bid scope. The responsibility matrix is correct. Sheet E001 legend description of rough-in only is incorrect. Minimum estimated racks are shown located on the plans. Contractor shall confirm all equipment provided, including owner's provided equipment will fit within the indicated racks. CAT 6 cables are required for each data port or device. IT room ladder tray information was provided in Prebid RFI #7. The Fiber optic cabling requirements are indicated on sheet E301's keyed notes.

Thomas Reed

11/22/2023

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/20/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910The following question concerns Drawing Sheet (number) C300 and A002:

C300, 8' blackvinyl chainlink fence at Generator Pad/Transformer Pad, does 8' vinyl fence continue to Retaining wall Decorative Fence? Parking Area behind Magistrate Building: shows 8' blackvinyl fence with 16' opening, is this a gate or just opening? This fence also goes to retaining wall and ends, and decorative fence on wall? A002, At 8' blackvinyl chainlink fence shows a motorized sliding gate on right side, what is size of gate and what type of operator, what type of entry system, or exit system?

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

On same area, shows 8' chainlink fence but at retaining wall says 7' chainlink fence? Was this to be 42" decorative fence? Also, can 2-1/2" post be used in lieu of 3" post?

Refer to updated A002 in Addendum No. 4 Chain link size will vary.

Provide privacy slats at all chain link fences. 3" post shall be used at terminal posts of chainlink fence, 2 1/2" posts may be utilized in line/intermediate posts.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Jordan Cruise

Name

Organization: Price Buildings, Inc.Telephone: 540-483-7226Bidders shall submit form to: Thompson & Litton

**THOMPSON
& LITTON**

Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/21/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910The following question concerns Drawing Sheet (number) A201:

For the ACM panels (074213.23) The elevations indicate "metal panel" ; "metal
panel, type 1"; and "metal panel type 2". What are the differences
between them? Are these the ACM panels?

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Metal panel Type 1 and Type 2 refer to two different colors of ACM panels to
be selected from manufacturer's standard colors.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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 BID DATE. All responses to questions will be made by Addendum.

Question submitted by: Thomas Barrett

Organization: Price Buildings Name
 Telephone: 540-483-7226

Bidders shall submit form to: Thompson & Litton

**THOMPSON
& LITTON**

Email address: prebid@T-L.com
 or
 FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/21/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 07 4213 23, page 4, paragraph 1.7.2.1:

074213 23, Section 1.7 – “D” refers to rain screen.

Section 2.1 –“C” . 9 refers to watertight, which would be a

caulked system. Please confirm what is needed.

Delete paragraph 2.1.C.9. Product to be installed as a rain-screen.

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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Question submitted by: Thomas Barrett

Organization: Price Buildings Name
Telephone: 540-483-7226

Bidders shall submit form to: Thompson & Litton



Email address: prebid@T-L.com
or
FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/3/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 096700 , page _____, paragraph _____:

Please advise height of epoxy base.

Base shall be integral and 4" in height.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Aaron Yost

Name

Organization: MB Contractors

Telephone: 540-342-6758

Bidders shall submit form to: Thompson & Litton



**THOMPSON
& LITTON**

Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/06/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) S100:

Is a column pier associated with the W8x31 column located at grid
S7? If yes, please provide details.

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Column pier for Column S7 is not required. See Typical Detail-Interior Column
Footing on S201.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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BID DATE. All responses to questions will be made by Addendum.

Question submitted by: Aaron Yost

Name

Organization: MB Contractors

Telephone: 540-342-6758

Bidders shall submit form to: Thompson & Litton



**THOMPSON
& LITTON**

Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/07/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910The following question concerns Drawing Sheet (number) 9/S301:Please clarify finishing specifications for the exposed concrete columns and beam shown in section 9/S301.

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

See Specification Section 03 3000 Cast-In-Place, Paragraph 3.7.C. Paragraph 3.7.C has been modified inAddendum No. 3 to include portal frame and interior retaining wall in Rooms M119 (Breath), M120 (Vest),M121 (Int) & M122 (Int).Paragraph 2.9.I added in Addendum No. 3 to provide concrete mis design information for concrete portal frame.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Aaron Yost

Name

Organization: MB ContractorsTelephone: 540-342-6758Bidders shall submit form to: Thompson & Litton**THOMPSON
& LITTON**Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/07/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) S100 :

For VEST M101, are the column footings for the W8x24 columns F1 footings?

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Footings shall be F5 (3'-0" x 3'-0" x 1'-2") with 4-#5 bars EW, BOT. Addendum No. 4 indicates footing size.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Aaron Yost

Name

Organization: MB Contractors

Telephone: 540-342-6758

Bidders shall submit form to: Thompson & Litton



**THOMPSON
& LITTON**

Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/07/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910The following question concerns Drawing Sheet (number) S100 :

Please provide section details (width, length, thickness, T/FTG elevation) for the column footing
located at grid Y16.

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Footing at Y16 shall be F5 (3'-0" x 3'-0" x 1'-2") with 4-#5 bars EW, BOT. Addendum
No. 4 indicates footing size. Plan indicates top of footing elevation.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Aaron Yost

Name

Organization: MB ContractorsTelephone: 540-342-6758Bidders shall submit form to: Thompson & Litton**THOMPSON
& LITTON**Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/08/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number)A701 :

In the detail table for partition type C, column "UL Assembly (Refer to LS101)" refers to LS101. LS101 is not part of the bid documents. Please provide LS101 or details for the U905 assembly.

The following question concerns Specification Section (number)_____, page _____, paragraph _____:

Life Safety plans are G002 and G003. U905 is now shown on new sheet G005 in Addendum No. 4

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Aaron Yost

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Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/09/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910The following question concerns Drawing Sheet (number) A102, 16/A321, 8/S301

There is a conflict in the floor elevations shown in 16/A321 compared to section 8/S301. For the wall
shown in A102 that sits on top of the concrete foundation wall shown in 8/S301 and from the
viewpoint of rooms M119-M122, should there be 2'-4" of exposed concrete and then CMU? Please
clarify.

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Refer to ASK-01 in Addendum No. 4 for Revised Section 16/A321. The concrete foundation
wall will be exposed and shall have a smooth rubbed finish per Specification Section 03
3000, Paragraph 3.7.C.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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BID DATE. All responses to questions will be made by Addendum.

Question submitted by: Aaron Yost

Name

Organization: MB ContractorsTelephone: 540-342-6758Bidders shall submit form to: Thompson & Litton**THOMPSON
& LITTON**Email address: prebid@T-L.com

or

FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/09/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____

The roof drains that are on the plans show a combination roof and overflow drains, but they are calling out a Zurn Z100, which is a single drain. Please advise.

TL RESPONSE: ROOF DRAINS UPDATED TO ZURN Z164 IN FIXTURE SCHEDULE ON SHEET P001.
-IAN THOMAS 11/27/2023

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/09/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____

1. Window SF1 is an eyebrow arched window, are the shades mounted at the bottom of the arch at each side jamb or at the top horizontal mullion?

2. Do vestibules M101 and C101 get roller shades?

3. Are the roller shades on the exterior windows only, do any interior windows get roller shades?
If so, I did not see any interior windows on sheet A712, where can those types and sizes be found?

The following question concerns Specification Section (number) _____, page _____, paragraph

1. Shades to be mounted at the jambs at the top.

2. No shades in vestibules m101 and c101.

3. Shades at exterior windows only.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/10/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910The following question concerns Drawing Sheet (number) 1/A201, 5/A311Elevation 1/A201 indicates Brick Type 2 for the Sallyport, whereas 5/A311 wall section indicates BrickFace Type 1. Please clarify which brick type is used for the Sallyport.

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Note on 5A311 to be revised to read "Brick Type 2".

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/10/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910The following question concerns Drawing Sheet (number) A701, A602

Porcelain tile has been removed from the project.

Finish schedule on A701 shows porcelain tile at the toilet walls for rooms M109 & M110. However, on Sheet A602, it does not show these bathrooms getting tile on the elevation drawings. Please advise.

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/10/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) 1/A201, 12/A501

West Elevation 1/A201 depicts the column wraps as composite metal panel type 2, whereas detail
12/A501 shows the column wrap as composite metal panel type 1. Please clarify which metal composite
panel type should be used to wrap the columns at VEST M101.

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Detail 12/A501 to be revised to read Composite Metal Type 2.

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/14/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number)A102, A711 :

Doors M103 and M104 for rooms INT M103 and INT M104 are not listed in the Door Schedule. Are the specifications for doors M103 and M104 identical to door M105 for room INT M105?

The following question concerns Specification Section (number)_____, page _____, paragraph _____:

Yes, M103 and M104 are identical to M105. Door schedule has been updated.

Refer to Addendum No. 4

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/14/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) A102, A601 :

Elevation 5/A601 does not show a coiling counter shutter as shown for all other transaction
windows present in Magistrate M118. Is this correct?

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

There are coiling shutters at the following transaction counters: between M118 and the
Sallyport, M122 and M121. Refer to RCP on sheet A105 for the location of the (4) counter
shutters. Appear in door schedule, refer to Addendum No. 4

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/14/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) A711 :

Please specify glazing for frame types HM-3 and HM-4.

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Glazing type shall be G-1. Refer to updated sheet A711.

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/14/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910The following question concerns Drawing Sheet (number) A102, 2/A311, A701

Please clarify metal framing component for the wall that runs along grid 9. On A102 the partition is called out as F1 which on A701 calls for a 2-1/2" metal stud whereas wall section 2/A311 calls out the same framing as 1-5/8" metal studs.

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Sheet A102, Partition type to be changed to F2, 1-5/8" metal studs.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Aaron Yost

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/15/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) FP001, C400

I see where we are extending the existing dry system into the expanded sallyport per Note 1 on FP001.

Can you advise the location and pipe size of the new fire line that will serve the wet system at the

Magistrate and Court Services building? I cannot locate a new fire service line on Utility Plan on Sheet C400.

TL RESPONSE: THE ONLY PORTIONS OF THE MAGISTRATE/COURT SERVICES BUILDING BEING SPRINKLERED ARE M119 BREATH, M120 VESTIBULE, M121 INT, AND M122 INT. THE EXISTING DRY SYSTEM WILL EXTEND TO SERVE THESE AREAS AS WELL. THERE IS NO WET SYSTEM SERVING THE BUILDING.

-IAN THOMAS 11/27/2023

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: xx/xx/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number)A106 :

Please provide specifications for the attic access hatch and ladder called out for STOR C124.

The following question concerns Specification Section (number)_____, page _____, paragraph _____:

Refer to detail ASK-02 in Addendum No. 4

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/16/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

~~Specification Section 01 4000 1.2.A will be deleted. Owner will pay for Special Inspections as identified by the Statement of Special Inspections. Owner will pay for the initial blower door test. Blower door retesting will be the responsibility of the contractor. All other testing will be the responsibility of the contractor. Refer to Specification Section 01 9113 paragraph 3.4.D.~~

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Section 1.2 014000 references back to Section 012100 for the allowance for payment of testing services.
Section 012100 does not call out an allowance for testing. Please provide the allowance we are to carry or confirm that Owner will contracting (and paying fees) with 3rd Party Testing firm?

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/16/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

Specification Section 01 5100 1.7.C will be deleted.

The following question concerns Specification Section (number) 1.7C 015100 , page _____, paragraph _____:

Per discussion at pre-bid meeting, please confirm that the clause referencing a max ambient temperature of 80 degrees will be removed from the spec.

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/16/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 042000, page _____, paragraph _____:

Please provide product information for brick or provide a material allowance.

Refer to updated Specification Section 01 2100 Allowances in Addendum No. 4

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: xx/xx/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) C703, Typ. Detail: Curb Stop

Sheet C703 provides a typ. detail for curb stops. However, none are indicated on Sheet C300.

Is it your intention to have curb stops? If so, where?

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Curb stops have been illustrated at the three (3) ADA spaces on the Site Plan.

CSK-01 and CSK-02

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: xx/xx/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 033000 , page 1, paragraph _____:

You reference Section 321313 - Conc. Paving, however this section is not provided in the documents.

Please provide the above referenced specification section 321313

The reference to Specification Section 32 1313 was removed from
Specification Section 03 3000. Curb & gutter specifications have been
provided in Section 03 3000. The entirety of the Specification Section 03 3000 has been reissued.

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: xx/xx/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) C301 :

Please indicated the type and quantity of each tree tagged "extensively damaged or dead trees
shall be replaced, in kind, by the contractor."

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

The labels on the Grading Plan have been revised to
clarify that the trees shall be replaced if they are damaged during construction.
Refer to CSK-03

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: xx/xx/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) C200 :

There are four (4) light poles tagged "light pole to be removed" and two (2) light poles w/o any tag.

Is it your intent for all light poles to be removed? We count six (6) total light poles.

There are six (6) light poles that need to be removed.
Two (2) additional labels have been added to the Demolition Plan for clarification.
Refer to revised Sheet C200

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Question submitted by: Aaron Yost

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Organization: MB Contractors

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/19/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 263213 , page _____, paragraph _____:

Who has responsibility for the costs associated with initial filling of diesel fuel at the emergency generator; Owner or GC?

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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Organization: MB Contractors

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RESPONSE:

GC shall be responsible for initial fill for testing purposes per spec section 26 2313.3.3. After testing purposes has concluded, GC shall top off fuel to generator prior to turning over to the owner.

Thomas Reed

11/27/2023

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/19/2023Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 3.3A 312316 , page _____, paragraph _____:

Section 3.3A states that all excavation is unclassified? Please confirm that the site is *unclassified* to *subgrade*? Assuming such, do the unit prices on the bid form come into play on excavation beyond subgrade?

Or...is the site considered *classified* with unit prices?

A geotechnical study was performed on the site; therefore, the site is classified with unit prices. Section 31 2316 3.3.A. has been removed from the specifications.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/21/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) S200, 1/A312 :

For the interior concrete stairs shown on S200 and 1/A312, the only finish called out for the stairs is the
aluminum alloy nosing specified in Detail A on S200. Specification 0965000 section 2.2 calls out rubber
covering for the treads, risers, stringers, and noses. Please clarify the finishes for the interior concrete
stairs.

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Rubber treads and risers. Updated on the details in Addendum No. 4

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/22/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

There is no spec for expansion joints. Will these be required at interior walls, exterior walls, ceilings, etc. where new construction connects to the existing Sallyport?

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Specification Section 07 9513 has been added to the Project Manual in Addendum No. 4

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

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Organization: MB Contractors

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PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/22/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) A201 :

Is there a spec for perforated aluminum grilles?

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

ADD the following specification for the Perforated Aluminum Grille:
"1" SQUARE DIAMOND (64% OPEN)
WEB SIZE 1/4
FINISH: SATIN CLEAR ANODIZED
BASIS OF DESIGN: ADVANCED ARCHITECTURAL GRILLEWORKS AAG701 DIAMOND

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

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Email address: prebid@T-L.com
or
FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11/22/2023

Project Name: Montgomery County Magistrate and Court Services Building

T&L Project No.: 16910

The following question concerns Drawing Sheet (number) A103, 2/A201, 7/A501

Is there a spec for the fiberglass column wrap?

The following question concerns Specification Section (number) _____, page _____, paragraph _____:

Specification Section 06 6100 Cast Polymer Fabrications has been added to the Project Manual. Refer to Addendum No. 4

Refer to “Instructions to Bidders”, Part 5 (ARCH) - “Interpretations and Addenda”.

NOTE: QUESTIONS MAY NOT BE CONSIDERED IF RECEIVED WITHIN TEN (10) CALENDAR DAYS OF THE BID DATE. All responses to questions will be made by Addendum.

Question submitted by: Aaron Yost

Name

Organization: MB Contractors

Telephone: 540-342-6758

Bidders shall submit form to: Thompson & Litton



**THOMPSON
& LITTON**

Email address: prebid@T-L.com
or
FAX No.: (540) 633-1896

PRE-BID QUESTION FORM

(Use separate Form for each question submitted.)

Date: 11-22-3Project Name: Montgomery County Magistrate and Court Services BuildingT&L Project No.: 16910

The following question concerns Drawing Sheet (number) _____:

The following question concerns Specification Section (number) 08 3313, page _____, paragraph _____:

DETAILS SHOW COUNTER FIRE DOORS. THEY ARE NOT LISTED ON THE DOOR
SCHEDULE. HOW MANY ARE THERE?

WHAT ARE THE SIZES OF THE COUNTER FIRE SHUTTERS?

Door schedule has been updated with the information on the (4) counter fire
shutters.

Refer to "Instructions to Bidders", Part 5 (ARCH) - "Interpretations and Addenda".

NOTE: QUESTIONS MAY NOT BE CONSIDERED IF RECEIVED WITHIN TEN (10) CALENDAR DAYS OF THE
 BID DATE. All responses to questions will be made by Addendum.

Question submitted by: KEN SHAW

Organization: OVERHEAD DOOR OF JOHNSON CITY
 Telephone: 423-930-5657

Bidders shall submit form to: Thompson & Litton

THOMPSON
& LITTON

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SECTION 03 3000 - CAST-IN-PLACE CONCRETE

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Concrete formwork.
- B. Floors and slabs on grade.
- C. Concrete foundation walls.
- D. Concrete foundations.
- E. Concrete retaining walls.
- F. Concrete reinforcement.
- G. Joint devices associated with concrete work.
- H. Miscellaneous concrete elements, including equipment pads and light pole bases.
- I. Concrete curing.

1.2 RELATED REQUIREMENTS

- A. Section 07 9200 - Joint Sealants: Products and installation for sealants and joint fillers for saw cut joints and isolation joints in slabs.

1.3 REFERENCE STANDARDS

- A. ACI 117 - Standard Specifications for Tolerances for Concrete Construction and Materials 2010 (Reapproved 2015).
- B. ACI 211.1 - Standard Practice for Selecting Proportions for Normal, Heavyweight, and Mass Concrete 1991 (Reapproved 2009).
- C. ACI 301 - Specifications for Structural Concrete 2016.
- D. ACI 302.1R - Guide to Concrete Floor and Slab Construction 2015.
- E. ACI 304R - Guide for Measuring, Mixing, Transporting, and Placing Concrete 2000 (Reapproved 2009).
- F. ACI 305R - Guide to Hot Weather Concreting 2010.
- G. ACI 306R - Guide to Cold Weather Concreting 2016.
- H. ACI 308R - Guide to External Curing of Concrete 2016.
- I. ACI 318 - Building Code Requirements for Structural Concrete and Commentary 2014 (Errata 2017).

- J. ACI 347R - Guide to Formwork for Concrete 2014.
- K. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon-Steel Bars for Concrete Reinforcement 2016.
- L. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete 2022.
- M. ASTM C31/C31M - Standard Practice for Making and Curing Concrete Test Specimens in the Field 2023.
- N. ASTM C1602/C1602M - Standard Specification for Mixing Water Used in the Production of Hydraulic Cement Concrete 2012.
- O. ASTM C33/C33M - Standard Specification for Concrete Aggregates 2016, with Editorial Revision (2016).
- P. ASTM C39/C39M - Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens 2017b.
- Q. ASTM C94/C94M - Standard Specification for Ready-Mixed Concrete 2017a.
- R. ASTM C109/C109M - Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens) 2016a.
- S. ASTM C143/C143M - Standard Test Method for Slump of Hydraulic-Cement Concrete 2015a.
- T. ASTM C150/C150M - Standard Specification for Portland Cement 2017.
- U. ASTM C171 - Standard Specification for Sheet Materials for Curing Concrete 2016.
- V. ASTM C172/C172M - Standard Practice for Sampling Freshly Mixed Concrete 2017.
- W. ASTM C260/C260M - Standard Specification for Air-Entraining Admixtures for Concrete 2010a (Reapproved 2016).
- X. ASTM C309 - Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete 2011.
- Y. ASTM C494/C494M - Standard Specification for Chemical Admixtures for Concrete 2017.
- Z. ASTM C618 - Standard Specification for Coal Fly Ash and Raw or Calcined Natural Pozzolan for Use in Concrete 2015.
- AA. ASTM C881/C881M - Standard Specification for Epoxy-Resin-Base Bonding Systems for Concrete 2015.
- BB. ASTM C1077 - Standard Practice for Agencies Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Testing Agency Evaluation 2017.
- CC. ASTM C1107/C1107M - Standard Specification for Packaged Dry, Hydraulic-Cement Grout (Nonshrink) 2014a.

- DD. ASTM C1315 - Standard Specification for Liquid Membrane-Forming Compounds Having Special Properties for Curing and Sealing Concrete 2011.
- EE. ASTM D994/D994M - Standard Specification for Preformed Expansion Joint Filler for Concrete (Bituminous Type) 2011 (Reapproved 2022).
- FF. ASTM D1751 - Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types) 2004, with Editorial Revision (2013).
- GG. ASTM E329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection 2021.
- HH. ASTM E1155 - Standard Test Method for Determining F(F) Floor Flatness and F(L) Floor Levelness Numbers 2014.
- II. ASTM E1155M - Standard Test Method for Determining F(F) Floor Flatness and F(L) Floor Levelness Numbers (Metric) 2014.
- JJ. ASTM E1643 - Standard Practice for Selection, Design, Installation and Inspection of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs 2011 (Reapproved 2017).
- KK. ASTM E1745 - Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs 2017.
- LL. ASTM F1249 - Standard Test Method for Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor 2020.
- MM. COE CRD-C 572 - Corps of Engineers Specifications for Polyvinylchloride Waterstop 1974.
- NN. NSF 61 - Drinking Water System Components - Health Effects 2017.
- OO. NSF 372 - Drinking Water System Components - Lead Content 2016.

1.4 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Submit manufacturers' data on manufactured products showing compliance with specified requirements and installation instructions.
 - 1. For curing compounds, provide data on method of removal in the event of incompatibility with floor covering adhesives.
- C. Mix Design: Submit proposed concrete mix design.
 - 1. Indicate proposed mix design complies with requirements of ACI 301, Section 4 - Concrete Mixtures.
 - 2. Indicate proposed mix design complies with requirements of ACI 318, Chapter 5 - Concrete Quality, Mixing and Placing.

3. Design Mixtures: For each concrete mixture. Submit alternate design mixtures when characteristics of materials, Project conditions, weather, test results, or other circumstances warrant adjustments.
 - a. Indicate amount of mixing water to be withheld for later addition at Project site.
- D. Samples: Submit samples of underslab vapor retarder to be used.
- E. Manufacturer's Installation Instructions: For concrete accessories, indicate installation procedures and interface required with adjacent construction.
- F. Project Record Documents: Accurately record actual locations of embedded utilities and components that will be concealed from view upon completion of concrete work.
- G. Test Reports: Submit report for each test or series of tests specified.

1.5 QUALITY ASSURANCE

- A. Perform work of this section in accordance with ACI 301 and ACI 318.
 1. Maintain one copy of each document on site.
- B. Follow recommendations of ACI 305R when concreting during hot weather.
- C. Follow recommendations of ACI 306R when concreting during cold weather.
- D. Installer Qualifications: A qualified installer who employs on Project personnel qualified as ACI-certified Flatwork Technician and Finisher and a supervisor who is an ACI-certified Concrete Flatwork Technician.
- E. Manufacturer Qualifications: A firm experienced in manufacturing ready-mixed concrete products and that complies with ASTM C94/C94M requirements for production facilities and equipment.
- F. Testing Agency Qualifications: An independent agency, acceptable to authorities having jurisdiction, qualified according to ASTM C1077 and ASTM E329 for testing indicated.
 1. Personnel conducting field tests shall be qualified as ACI Concrete Field--Testing Technician, Grade 1, according to ACI CP-1 or an equivalent certification program.
 2. Personnel performing laboratory tests shall be ACI-certified Concrete Strength Testing Technician and Concrete Laboratory Testing Technician - Grade I. Testing Agency laboratory supervisor shall be an ACI-certified Concrete Laboratory Testing Technician - Grade II.
- G. Source Limitations: Obtain each type or class of cementitious material of the same brand from the same manufacturer's plant, obtain aggregate from single source, and obtain admixtures from single source from single manufacturer.
- H. ACI Publications: Comply with the following unless modified by requirements in the Contract Documents:

1. ACI 301, "Specifications for Structural Concrete," Sections 1 through 5.
 2. ACI 117, "Specifications for Tolerances for Concrete Construction and Materials."
- I. Preinstallation Conference: Conduct conference at Project site.
1. Before submitting design mixtures, review concrete design mixture and examine procedures for ensuring quality of concrete materials. Require representatives of each entity directly concerned with cast-in-place concrete to attend, including the following:
 - a. General Contractor
 - b. Concrete Subcontractor
 - c. Special Inspector
 2. Review special inspection and testing and inspection agency procedures for field quality control and concrete protection.

PART 2 PRODUCTS

2.1 FORMWORK

- A. Formwork Design and Construction: Comply with guidelines of ACI 347R to provide formwork that will produce concrete complying with tolerances of ACI 117.
- B. Form Materials: Contractor's choice of standard products with sufficient strength to withstand hydrostatic head without distortion in excess of permitted tolerances.
1. Form Facing for Exposed Finish Concrete: Contractor's choice of materials that will provide smooth, stain-free final appearance.
 2. Earth Cuts: Do not use earth cuts as forms for vertical surfaces other than for foundations. Natural rock formations that maintain a stable vertical edge may be used as side forms.
 3. Form Coating: Release agent that will not adversely affect concrete or interfere with application of coatings.
 4. Form Ties: Cone snap type that will leave no metal within 1-1/2 inches of concrete surface.

2.2 REINFORCEMENT MATERIALS

- A. Reinforcing Steel: ASTM A615/A615M, Grade 60 (60,000 psi).
1. Type: Deformed billet-steel bars.
 2. Finish: Unfinished.
- B. Steel Welded Wire Reinforcement (WWR): Plain type, ASTM A1064/A1064M.

1. Form: Flat Sheets.
 2. WWR Style: As indicated on drawings.
- C. Reinforcement Accessories:
1. Tie Wire: Annealed, minimum 16 gage, 0.0508 inch.
 2. Chairs, Bolsters, Bar Supports, Spacers: Sized and shaped for adequate support of reinforcement during concrete placement.
 3. Provide stainless steel, galvanized, plastic, or plastic coated steel components for placement within 1-1/2 inches of weathering surfaces.

2.3 CONCRETE MATERIALS

- A. Cement: ASTM C150/C150M, Type I or II, Portland type.
1. Acquire cement for entire project from same source.
- B. Fine and Coarse Aggregates: ASTM C33/C33M.
1. Acquire aggregates for entire project from same source.
- C. Fly Ash: ASTM C618, Class F.
- D. Water: ASTM C1602/C1602M; clean, potable, and not detrimental to concrete.

2.4 ADMIXTURES

- A. Chemical Admixture: Provide admixtures certified by manufacturer to be compatible with other admixtures and that will not contribute water-soluble chloride ions exceeding those permitted in hardened concrete. Do not use calcium chloride or admixtures containing calcium chloride.
- B. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.
- C. Air Entrainment Admixture: ASTM C260/C260M.
- D. High Range Water Reducing and Retarding Admixture: ASTM C494/C494M Type G.
- E. High Range Water Reducing Admixture: ASTM C494/C494M Type F.
- F. Water Reducing and Accelerating Admixture: ASTM C494/C494M Type E.
- G. Accelerating Admixture: ASTM C494/C494M Type C.
- H. Retarding Admixture: ASTM C494/C494M Type B.
- I. Water Reducing Admixture: ASTM C494/C494M Type A.
- J. Shrinkage Reducing Admixture:

1. ASTM C494/C494M, Type S.

2.5 ACCESSORY MATERIALS

- A. Underslab Vapor Retarder: Sheet material complying with ASTM E1745, Class A; stated by manufacturer as suitable for installation in contact with soil or granular fill under concrete slabs. The use of single ply polyethylene is prohibited.
 1. Permeance: 0.010 perms, maximum when test in accordance with ASTM F1249.
 2. Thickness: 15 mil.
 3. Installation: Comply with ASTM E1643.
 4. Accessory Products: Vapor retarder manufacturer's recommended tape, adhesive, mastic, termination bar, prefabricated boots, etc., for sealing seams and penetrations.
- B. Non-Shrink Cementitious Grout: Premixed compound consisting of non-metallic aggregate, cement, water reducing and plasticizing agents.
 1. Grout: Comply with ASTM C1107/C1107M.
 2. Minimum Compressive Strength at 48 Hours, ASTM C109/C109M: 2,000 pounds per square inch.
 3. Minimum Compressive Strength at 28 Days, ASTM C109/C109M: 7,000 pounds per square inch.

2.6 BONDING AND JOINTING PRODUCTS

- A. Epoxy Bonding System:
 1. Complying with ASTM C881/C881M and of Type required for specific application.
- B. Hydrophilic waterstops: Bentonite and butyl rubber, complying with NSF 61 and NSF 372.
 1. Configuration: Trapezoid.
 2. Size: 1/2" x 1 1/4".
- C. Slab Expansion and Isolation Joint Filler: 1/2 inch thick, height equal to slab thickness, with removable top section that will form 1/2 inch deep sealant pocket after removal.
 1. Material: ASTM D1751, cellulose fiber.
- D. Slab Construction Joint Devices: Combination keyed joint form and screed, galvanized steel, with rectangular or round knockout holes for conduit or rebar to pass through joint form at 6 inches on center; ribbed steel stakes for setting.
 1. Height: To suit slab thickness.
- E. Dowel Sleeves: Plastic sleeve for smooth, round, steel load-transfer dowels.

2.7 CURING MATERIALS

- A. Evaporation Reducer: Liquid thin-film-forming compound that reduces rapid moisture loss caused by high temperature, low humidity, and high winds; intended for application immediately after concrete placement.
- B. Curing Compound, Naturally Dissipating: Clear, water-based, liquid membrane-forming compound; complying with ASTM C309.
 - 1. Product dissipates within 4 to 6 weeks.
 - 2. Provide product containing fugitive red dye.
- C. Curing and Sealing Compound, Moisture Emission Reducing, Membrane-Forming: Liquid, membrane-forming, clear sealer, for application to newly-placed concrete; capable of providing adequate bond for flooring adhesives, initially and over the long term; with sufficient moisture vapor impermeability to prevent deterioration of flooring adhesives due to moisture emission.
 - 1. Use this product to cure and seal all slabs to receive adhesively applied flooring or roofing.
 - 2. Comply with ASTM C309 and ASTM C1315 Type I Class A.
 - 3. Solids Content: 25 percent, minimum.
- D. Curing and Sealing Compound, Low Gloss: Liquid, membrane-forming, clear, non-yellowing acrylic; complying with ASTM C1315 Type 1 Class A.
 - 1. Application: Use at floor areas not to receive adhered floor covering.
 - 2. Vehicle: Water-based.
- E. Moisture-Retaining Sheet: ASTM C171.
 - 1. Curing paper, regular.
 - 2. White-burlap-polyethylene sheet, weighing not less than 3.8 ounces per square yard.
- F. Absorptive Cover: AASHTO M 182, Class 2, burlap cloth made from jute or kenaf, weighing approximately 9 oz./sq. yd. when dry.
- G. Water: Potable, not detrimental to concrete.

2.8 CONCRETE PENETRATING SEALER

- A. Penetrating Epoxy Sealer: Two-Component, non-yellowing, water-based epoxy penetrating sealer.
 - 1. Application: Use at Sallyport concrete slab-on-grade.
 - 2. Vehicle: Water-based.

3. Solids by Mass: 20 percent, minimum.

2.9 CONCRETE MIX DESIGN

- A. Proportioning Normal Weight Concrete: Comply with ACI 211.1 recommendations.
- B. Concrete Strength: Establish required average strength for each type of concrete on the basis of field experience or trial mixtures, as specified in ACI 301.
 1. For trial mixtures method, employ independent testing agency acceptable to Architect/Engineer for preparing and reporting proposed mix designs.
- C. Admixtures: Add acceptable admixtures as recommended in ACI 211.1 and at rates recommended or required by manufacturer.
- D. Normal Weight Concrete:
 1. Compressive Strength, when tested in accordance with ASTM C39/C39M at 28 days: As indicated on drawings or specified.
 2. Fly Ash Content: Maximum 25 percent of cementitious materials by weight.
 3. Maximum Aggregate Size: 3/4 inch.
- E. Foundations: Proportion normal-weight concrete mixture as follows:
 1. Minimum Compressive Strength: 3000 psi at 28 days.
 2. Maximum Water-Cementitious Materials Ratio: 0.50.
 3. Slump Limit: 4 inches, plus or minus 1 inch.
- F. Interior Foundation Wall:
 1. Minimum Compressive Strength: 4000 psi at 28 days.
 2. Maximum Water-Cementitious Materials Ratio: 0.45.
 3. Slump Limit: 4 inches, plus or minus 1 inch.
- G. Interior Slabs-on-Grade: Proportion normal-weight concrete mixture as follows:
 1. Minimum Compressive Strength: 4000 psi at 28 days.
 2. Maximum Water-Cementitious Materials Ratio: 0.45.
 3. Slump Limit: 4 inches, plus or minus 1 inch.
 4. Air Content: Do not allow air content of trowel-finished floors to exceed 3 percent.
- H. Exterior Slabs-on-Grade, Exterior Retaining Walls, Exterior Equipment Pads, and Sidewalks: Proportion normal-weight concrete mixture as follows:

1. Minimum Compressive Strength: 5000 psi at 28 days.
 2. Maximum Water-Cementitious Materials Ratio: 0.40.
 3. Slump Limit: 4 inches, plus or minus 1 inch.
 4. Air Content: 6 percent plus or minus 1.5 percent at point of delivery for 3/4-inch nominal maximum aggregate size, determined in accordance with ASTM C173/C173M.
- I. Concrete Portal Frame: Proportion normal-weight concrete mixture as follows:
1. Minimum Compressive Strength: 5000 psi at 28 days.
 2. Maximum Water-Cementitious Materials Ratio: 0.40.
 3. Slump Limit: 4 inches, plus or minus 1 inch.

2.10 MIXING

- A. Transit Mixers: Comply with ASTM C94/C94M.
1. When air temperature is between 85 and 90 deg F, reduce mixing and delivery time from 1-1/2 hours to 75 minutes; when air temperature is above 90 deg F, reduce mixing and delivery time to 60 minutes.
 2. Adding Water: If concrete arrives on-site with slump less than suitable for placement, do not add water that exceeds the maximum water-cement ratio or exceeds the maximum permissible slump.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify lines, levels, and dimensions before proceeding with work of this section.

3.2 PREPARATION

- A. Formwork: Comply with requirements of ACI 301. Design and fabricate forms to support all applied loads until concrete is cured, and for easy removal without damage to concrete.
- B. Verify that forms are clean and free of rust before applying release agent.
- C. Coordinate placement of embedded items with erection of concrete formwork and placement of form accessories.
- D. Coat contact surfaces of forms with form-release agent, according to manufacturer's written instructions, before placing reinforcement.
- E. Where new concrete is to be bonded to previously placed concrete, prepare existing surface by cleaning and applying bonding agent in accordance with bonding agent manufacturer's instructions.

1. Use epoxy bonding system for bonding to damp surfaces, for structural load-bearing applications, and where curing under humid conditions is required.
- F. Interior Slabs on Grade: Install vapor retarder under interior slabs on grade. Lap joints minimum 6 inches. Seal joints, seams and penetrations watertight with manufacturer's recommended products and follow manufacturer's written instructions. Repair damaged vapor retarder before covering. Terminate vapor barrier along perimeter walls at top of slab using double sided tape or termination bar.
1. Vapor Retarder Over Granular Fill: Install compactible granular fill before placing vapor retarder as indicated on drawings. Do not use sand.

3.3 INSTALLING REINFORCEMENT AND OTHER EMBEDDED ITEMS

- A. Comply with requirements of ACI 301. Clean reinforcement of loose rust and mill scale, and accurately position, support, and secure in place to achieve not less than minimum concrete coverage required for protection.
- B. Install welded wire reinforcement in maximum possible lengths, and offset end laps in both directions. Splice laps with tie wire.
- C. Verify that anchors, plates, reinforcement and other items to be cast into concrete are accurately placed, positioned securely, and will not interfere with concrete placement.

3.4 PLACING CONCRETE

- A. Before placing concrete, verify that installation of formwork, reinforcement, and embedded items is complete and that required inspections have been performed.
- B. Do not add water to concrete during delivery, at Project site, or during placement unless approved by Architect and water has been withheld at ready-mix plant. Amount of water withheld shall be indicated on the mix delivery ticket.
- C. Before test sampling and placing concrete, water may be added at Project site, subject to limitations of ACI 301 and Paragraph 3.4.B above.
- D. Place concrete in accordance with ACI 304R.
- E. Place concrete for floor slabs in accordance with ACI 302.1R.
- F. Notify Special Inspector not less than 48 hours prior to commencement of placement operations.
- G. Maintain records of concrete placement. Record date, location, quantity, air temperature, and test samples taken.
- H. Ensure reinforcement, inserts, waterstops, embedded parts, and formed construction joint devices will not be disturbed during concrete placement.
- I. Deposit concrete continuously in one layer or in horizontal layers of such thickness that no new concrete will be placed on concrete that has hardened enough to cause seams or planes

of weakness. If a section cannot be placed continuously, provide construction joints as indicated. Deposit concrete to avoid segregation.

1. Deposit concrete in horizontal layers of depth to not exceed formwork design pressures and in a manner to avoid inclined construction joints.
 2. Consolidate placed concrete with mechanical vibrating equipment according to ACI 301.
 3. Do not use vibrators to transport concrete inside forms. Insert and withdraw vibrators vertically at uniformly spaced locations to rapidly penetrate placed layer and at least 6 inches into preceding layer. Do not insert vibrators into lower layers of concrete that have begun to lose plasticity. At each insertion, limit duration of vibration to time necessary to consolidate concrete and complete embedment of reinforcement and other embedded items without causing mixture constituents to segregate.
- J. Deposit and consolidate concrete for floors and slabs in a continuous operation, within limits of construction joints, until placement of a panel or section is complete.
1. Consolidate concrete during placement operations so concrete is thoroughly worked around reinforcement and other embedded items and into corners.
 2. Maintain reinforcement in position on chairs during concrete placement.
 3. Screed slab surfaces with a straightedge and strike off to correct elevations.
 4. Slope surfaces uniformly to drains where required.
 5. Begin initial floating using bull floats or darbies to form a uniform and open-textured surface plane, before excess bleed water appears on the surface. Do not further disturb slab surfaces before starting finishing operations.
- K. Cold-Weather Placement: Comply with ACI 306.1 and as follows. Protect concrete work from physical damage or reduced strength that could be caused by frost, freezing actions, or low temperatures.
1. When average high and low temperature is expected to fall below 40 deg F for three successive days, maintain delivered concrete mixture temperature within the temperature range required by ACI 301.
 2. Do not use frozen materials or materials containing ice or snow. Do not place concrete on frozen subgrade or on subgrade containing frozen materials.
 3. Do not use calcium chloride, salt, or other materials containing antifreeze agents or chemical accelerators unless otherwise specified and approved in mixture designs.
- L. Hot-Weather Placement: Comply with ACI 301 and as follows:
1. Maintain concrete temperature below 90 deg F at time of placement. Chilled mixing water or chopped ice may be used to control temperature, provided water equivalent of ice is included in total amount of mixing water. Using liquid nitrogen to cool concrete is Contractor's option.

2. Fog-spray forms, steel reinforcement, and subgrade just before placing concrete. Keep subgrade uniformly moist without standing water, soft spots, or dry areas.

3.5 SLAB JOINTING

- A. Locate joints as indicated on drawings.
- B. Anchor joint fillers and devices to prevent movement during concrete placement.
- C. Load Transfer Construction and Contraction Joints: Install load transfer devices as indicated; saw cut joint at surface as indicated for contraction joints.
- D. Construction Joints: Install so strength and appearance of concrete are not impaired, at locations indicated or as approved by Architect.
 1. Place joints perpendicular to main reinforcement. Continue reinforcement across construction joints unless otherwise indicated. Do not continue reinforcement through sides of strip placements of floors and slabs.
 2. Locate horizontal joints in walls and columns at underside of floors, slabs, beams, and girders and at the top of footings or floor slabs.
 3. Space vertical joints in walls as indicated. Locate joints beside piers integral with walls, near corners, and in concealed locations where possible.
 4. Use a bonding agent at locations where fresh concrete is placed against hardened or partially hardened concrete surfaces.
- E. Contraction Joints in Slabs-on-Grade: Form weakened-plane contraction joints, sectioning concrete into areas as indicated. Construct contraction joints for a depth equal to at least one-fourth of concrete thickness as follows:
 1. Sawed Joints: Form contraction joints with power saws equipped with shatterproof abrasive or diamond-rimmed blades. Cut 1/8-inch-wide joints and cut at least 1 inch deep into concrete, when cutting action will not tear, abrade, or otherwise damage surface and before concrete develops random contraction cracks.
 2. Doweled Joints: Install dowel bars and support assemblies at joints where indicated. Lubricate or asphalt coat one-half of dowel length to prevent concrete bonding to one side of joint.
- F. Isolation Joints in Slabs-on-Grade: After removing formwork, install joint-filler strips at slab junctions with vertical surfaces, such as column pedestals, foundation walls, grade beams, and other locations, as indicated.
 1. Extend joint-filler strips full width and depth of joint, terminating flush with finished concrete surface unless otherwise indicated.
 2. Terminate full-width joint-filler strips not less than 1/2 inch or more than 1 inch below finished concrete surface where joint sealants, specified in Section 07 9200 "Joint Sealants," are indicated.

3. Install joint-filler strips in lengths as long as practicable. Where more than one length is required, lace or clip sections together.
- G. Align curb, gutter, and sidewalk joints.
1. Place 1/2 inch wide expansion joints at 30 foot intervals and to separate sidewalks and curbs from vertical surfaces and other components and in pattern indicated.
 - a. Form joints with joint filler extending from bottom of pavement to within 1/2 inch of finished surface.
 - b. Secure to resist movement by wet concrete.
 2. Provide scored joints.
 - a. At 6 feet intervals.
 - b. Between sidewalks and curbs.
 - c. Between curbs/gutters and pavement

3.6 FLOOR FLATNESS AND LEVELNESS TOLERANCES

- A. Contractor shall have an independent testing agency, as specified in Section 01 4000, to inspect finished slabs for compliance with specified tolerances. Special Inspector may be hired to inspect finished floor slab at the expense of the contractor. Testing of the floor flatness is not a special inspection and the cost of testing shall be paid for by the General Contractor as part of the contractor's quality assurance program.
- B. Minimum F(F) Floor Flatness and F(L) Floor Levelness Values:
1. Exposed to View and Foot Traffic (Mechanical & Electrical Rooms): F(F) of 20; F(L) of 17, on-grade only.
 2. Exposed Concrete Floor in Interview Rooms: F(F) of 25; F(L) of 20, on-grade only.
 3. Under Carpeting and Vinyl Tile: F(F) of 25; F(L) of 20, on-grade only.
 4. Under Thin Resilient Flooring and Thinset Tile: F(F) of 35; F(L) of 25, on-grade only.
- C. Measure F(F) Floor Flatness and F(L) Floor Levelness in accordance with ASTM E1155 (ASTM E1155M), within 24 hours after slab installation; report both composite overall values and local values for each measured section.
- D. Correct the slab surface if composite overall value is less than specified and if local value is less than two-thirds of specified value or less than F(F) 13/F(L) 10.
- E. Correct defects by grinding or by removal and replacement of the defective work. Areas requiring corrective work will be identified. Re-measure corrected areas by the same process.

3.7 CONCRETE FINISHING

- A. Repair surface defects, including tie holes, immediately after removing formwork.
- B. Unexposed Form Finish: Rub down or chip off fins or other raised areas 1/4 inch or more in height.
- C. Exposed Form Finish (Exterior Retaining Walls, Exposed Interior Foundation Wall, & Concrete Portal Frame): Rub down or chip off and smooth fins or other raised areas 1/4 inch or more in height. Provide finish as follows:
 - 1. Smooth Rubbed Finish: Wet concrete and rub with carborundum brick or other abrasive, not more than 24 hours after form removal.
- D. Concrete Slabs: Finish to requirements of ACI 302.1R, and as follows:
 - 1. Surfaces to Receive Thin Floor Coverings: "Steel trowel" as described in ACI 302.1R; thin floor coverings include carpeting, resilient flooring, seamless flooring, resinous matrix terrazzo, thin set quarry tile, and thin set ceramic tile.
 - 2. Other Interior Surfaces to Be Left Exposed: Trowel as described in ACI 302.1R, minimizing burnish marks and other appearance defects.
- E. Broom Finish: Apply a broom finish to exterior concrete steps, ramps, sidewalks, curbs and gutters, and elsewhere as indicated.
 - 1. Immediately after float finishing, slightly roughen trafficked surface by brooming with fiber-bristle broom perpendicular to main traffic route. Coordinate required final finish with Architect before application.
 - 2. Curbs and Gutters: Apply light broom texture parallel to pavement direction.

3.8 MISCELLANEOUS CONCRETE ITEMS

- A. Filling In: Fill in holes and openings left in concrete structures after work of other trades is in place unless otherwise indicated. Mix, place, and cure concrete, as specified, to blend with in-place construction. Provide other miscellaneous concrete filling indicated or required to complete the Work.
- B. Curbs and Gutters: Provide monolithic finish to interior curbs by stripping forms while concrete is still green and by steel-troweling surfaces to a hard, dense finish with corners, intersections, and terminations slightly rounded. Apply broom finished as specified above
 - 1. Minimum Compressive Strength: 4000 psi at 28 days.
 - 2. Maximum Water-Cementitious Materials Ratio: 0.45.
 - 3. Air Content: 6 percent plus or minus 1.5 percent at point of delivery for 3/4-inch nominal maximum aggregate size, determined in accordance with ASTM C173/C173M.
- C. Exterior Equipment Bases and Foundations:
 - 1. Coordinate sizes and locations of concrete bases with actual equipment provided.

2. Construct concrete bases 4 inches above finished grade, unless otherwise indicated; and extend base not less than 6 inches in each direction beyond the maximum dimensions of supported equipment, unless otherwise indicated or unless required for seismic anchor support.
3. Minimum Compressive Strength: 5000 psi at 28 days.
4. Prior to pouring concrete, place and secure anchorage devices. Use setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.

3.9 CURING AND PROTECTION

- A. Comply with requirements of ACI 308R. Immediately after placement, protect concrete from premature drying, excessively hot or cold temperatures, and mechanical injury.
 1. General: Protect freshly placed concrete from premature drying and excessive cold or hot temperatures. Comply with ACI 306.1 for cold-weather protection and ACI 301 for hot-weather protection during curing.
 2. Evaporation Retarder: Apply evaporation retarder to unformed concrete surfaces if hot, dry, or windy conditions cause moisture loss approaching 0.2 lb/sq. ft. x h before and during finishing operations. Apply according to manufacturer's written instructions after placing, screeding, and bull floating or darbying concrete, but before float finishing.
- B. Maintain concrete with minimal moisture loss at relatively constant temperature for period necessary for hydration of cement and hardening of concrete.
 1. Normal concrete: Not less than seven days.
- C. Formed Surfaces: Cure by moist curing with forms in place for full curing period.
- D. Surfaces Not in Contact with Forms:
 1. Initial Curing: Start as soon as free water has disappeared and before surface is dry. Keep continuously moist for not less than three days by water ponding, water-saturated sand, water-fog spray, or saturated burlap.
 - a. Ponding: Maintain 100 percent coverage of water over floor slab areas, continuously for 4 days.
 - b. Spraying: Spray water over floor slab areas and maintain wet.
 - c. Saturated Burlap: Saturate burlap-polyethylene and place burlap-side down over floor slab areas, lapping ends and sides; maintain in place.
 2. Final Curing: Begin after initial curing but before surface is dry.
 - a. Moisture-Retaining Sheet: Lap strips not less than 12 inches and seal with waterproof tape or adhesive; secure at edges.

- b. Curing Compound: Apply in two coats at right angles, using application rate recommended by manufacturer.
- E. Cure concrete according to ACI 308.1, by one or a combination of the following methods:
 - 1. Moisture Curing: Keep surfaces continuously moist for not less than seven days with the following materials:
 - a. Water.
 - b. Continuous water-fog spray.
 - c. Absorptive cover, water saturated, and kept continuously wet. Cover concrete surfaces and edges with 12-inch lap over adjacent absorptive covers.
 - 2. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Cure for not less than seven days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.
 - a. Moisture cure or use moisture-retaining covers to cure concrete surfaces to receive floor coverings.
 - b. Moisture cure or use moisture-retaining covers to cure concrete surfaces to receive penetrating liquid floor treatments.
 - c. Cure concrete surfaces to receive floor coverings with either a moisture-retaining cover or a curing compound that the manufacturer certifies will not interfere with bonding of floor covering used on Project.
 - 3. Curing Compound: Apply uniformly in continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Maintain continuity of coating and repair damage during curing period.
 - a. Removal: After curing period has elapsed, remove curing compound without damaging concrete surfaces by method recommended by curing compound manufacturer unless manufacturer certifies curing compound will not interfere with bonding of floor covering used on Project.
 - 4. Curing and Sealing Compound: Apply uniformly to floors and slabs indicated in a continuous operation by power spray or roller according to manufacturer's written instructions. Recoat areas subjected to heavy rainfall within three hours after initial application. Repeat process 24 hours later and apply a second coat. Maintain continuity of coating and repair damage during curing period.
 - 5. Moisture-Retaining-Cover Curing: Cover concrete surfaces with moisture-retaining cover for curing concrete, placed in widest practicable width, with sides and ends lapped at least 12 inches, and sealed by waterproof tape or adhesive. Cure for not less than seven

days. Immediately repair any holes or tears during curing period using cover material and waterproof tape.

3.10 JOINT FILLING

- A. Prepare, clean, and install joint filler according to manufacturer's written instructions.
 - 1. Defer joint filling until concrete has aged at least one month(s). Do not fill joints until construction traffic has permanently ceased.
- B. Remove dirt, debris, saw cuttings, curing compounds, and sealers from joints; leave contact faces of joint clean and dry.
- C. Install semirigid joint filler full depth in saw-cut joints and at least 2 inches deep in formed joints. Overfill joint and trim joint filler flush with top of joint after hardening.

3.11 FIELD QUALITY CONTROL

- A. Special Inspector will perform field quality control tests, as specified in Section 01 4533 - Code-Required Special Inspections and Procedures.
- B. Provide free access to concrete operations at project site and cooperate with appointed firm.
- C. Inspections:
 - 1. Steel reinforcement placement.
 - 2. Headed bolts and studs.
 - 3. Verification of use of required design mixture.
 - 4. Concrete placement, including conveying and depositing.
 - 5. Curing procedures and maintenance of curing temperature.
- D. Concrete Tests: Testing of composite samples of fresh concrete obtained according to ASTM C172/C172M shall be performed according to the following requirements:
 - 1. Testing Frequency: Obtain one composite sample for each day's pour of each concrete mixture exceeding 5 cu. yd., but less than 25 cu. yd., plus one set for each additional 50 cu. yd. or fraction thereof.
 - 2. Slump: ASTM C143/C143M; one test at point of placement for each composite sample, but not less than one test for each day's pour of each concrete mixture. Perform additional tests when concrete consistency appears to change.
 - 3. Air Content: ASTM C 231, pressure method, for normal-weight concrete; one test for each composite sample, but not less than one test for each day's pour of each concrete mixture.
 - 4. Concrete Temperature: ASTM C 1064/C 1064M; one test hourly when air temperature is 40 deg F and below and when 80 deg F and above, and one test for each composite sample.

5. Compression Test Specimens: ASTM C31/C31M
 - a. Cast and laboratory cure three sets of three standard cylinder specimens for each composite sample.
 6. Compressive-Strength Tests: ASTM C39/C39M; test one set of three laboratory-cured specimens at 7 days and one set of three specimens at 28 days. Hold third set of three specimens for testing at 56 days. Testing at 56 days not required if compressive strength at 28 days exceeds required compressive strength.
 - a. A compressive-strength test shall be the average compressive strength from a set of a minimum of two specimens obtained from same composite sample and tested at age indicated.
 7. Strength of each concrete mixture will be satisfactory if every average of any three consecutive compressive-strength tests equals or exceeds specified compressive strength and no compressive-strength test value falls below specified compressive strength by more than 500 psi.
 8. Test results shall be reported in writing to Architect/Engineer, concrete manufacturer, and Contractor within 48 hours of testing. Reports of compressive-strength tests shall contain Project identification name and number, date of concrete placement, name of concrete testing and inspecting agency, location of concrete batch in Work, design compressive strength at 28 days, concrete mixture proportions and materials, compressive breaking strength, and type of break for both 7- and 28-day tests.
 9. Nondestructive Testing: Impact hammer, sonoscope, or other nondestructive device may be permitted by Architect but will not be used as sole basis for approval or rejection of concrete.
 10. Additional Tests: Testing and inspecting agency shall make additional tests of concrete when test results indicate that slump, air entrainment, compressive strengths, or other requirements have not been met, as directed by Architect. Testing and inspecting agency may conduct tests to determine adequacy of concrete by cored cylinders complying with ASTM C 42/C 42M or by other methods as directed by Architect/Engineer.
 11. Additional testing and inspecting, at Contractor's expense, will be performed to determine compliance of replaced or additional work with specified requirements.
 12. Correct deficiencies in the Work that test reports and inspections indicate do not comply with the Contract Documents.
- E. Take one additional test cylinder during cold weather concreting, cured on job site under same conditions as concrete it represents.

3.12 DEFECTIVE CONCRETE

- A. Test Results: The testing agency shall report test results in writing to Architect/Engineer and Contractor within 48 hours of test.

- B. Defective Concrete: Concrete not complying with required lines, details, dimensions, tolerances or specified requirements.
- C. Repair or replacement of defective concrete will be determined by the Architect/Engineer. The cost of additional testing shall be borne by Contractor when defective concrete is identified.
- D. Do not patch, fill, touch-up, repair, or replace exposed concrete except upon express direction of Architect/Engineer for each individual area.

3.13 PROTECTION

- A. Do not permit traffic over unprotected concrete floor surface until fully cured.
- B. Protect installed products until completion of project.
- C. Touch-up, repair or replace damaged products before Date of Substantial Completion.

END OF SECTION

SECTION 06 6100 - CAST POLYMER FABRICATIONS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Cast fiberglass and polyurethane architectural units.

1.2 REFERENCE STANDARDS

- A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials 2017.

1.3 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Shop Drawings: Indicate dimensions, thicknesses, required clearances, tolerances, materials, colors, finishes, fabrication details, field jointing, adjacent construction, design load parameters, methods of support, integration of plumbing components, and anchorages.
- C. Maintenance Data: Indicate list of approved cleaning materials and procedures required; list of substances that are harmful to the component materials.
- D. Warranty Documentation: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to the site in original packages, containers or bundles bearing brand name and identification. Protect from damage by retaining shipping protection in place until installation.
- B. Handle products to prevent damage to edges, ends, or surfaces.

1.5 WARRANTY

- A. See Section 01 7800 - Closeout Submittals, for additional warranty requirements.
- B. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Provide finished products having flame spread index of 35 and smoke developed index of 15, when tested in accordance with ASTM E84 in thickness of 3/4 inch.
- B. Resin: Polyester; flame-retardant, for use in the roto-cast method.
- C. Filler Material: ASTM E84 Class A rated.

2.2 SITE FINISHING MATERIALS

- A. Finishing: Field finished.

2.3 FASTENINGS

- A. Adhesive: As recommended by the manufacturer for application; not containing formaldehyde or other volatile organic compounds.

2.4 FABRICATION

- A. Wind Load: As indicated on the structural drawings.
- B. Fabricate components by mold to achieve shape and configuration.
- C. Radius corners and edges.
- D. Cast Plastic Fabrication Requirements
 1. Column Shaft Wall Thickness: 3/8 inch.
 2. Column Bottom Shaft Diameter or Width: As indicated on drawings.
 3. Column Overall Height: As indicated on drawings.

2.5 FINISH

- A. Color: White color as selected.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that field measurements are as indicated.
- B. Verify that joint preparation and affected dimensions are acceptable.

3.2 PREPARATION

- A. Provide anchoring devices for installation and embedding.
- B. Provide templates and rough-in measurements.

3.3 INSTALLATION

- A. Install components in accordance with approved shop drawings and manufacturer's instructions.
- B. Align work plumb and level.

3.4 TOLERANCES

- A. Maximum Variation From True Dimension: 1/8 inch.
- B. Maximum Offset From True Position: 1/8 inch.

3.5 CLEANING

- A. Clean and polish surfaces in accordance with manufacturer's instructions.

3.6 PROTECTION

- A. Protect installed from subsequent construction operations.

END OF SECTION

SECTION 07 9513 - EXPANSION JOINT COVER ASSEMBLIES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Expansion joint cover assemblies for wall surfaces.

1.2 RELATED REQUIREMENTS

- A. Section 04 2000 - Unit Masonry: Placement of joint cover assembly frames in masonry.
- B. Section 07 7100 - Roof Specialties: Roof expansion and control joint covers.
- C. Section 07 9200 - Joint Sealants: Sealing expansion and control joints using gunnable and pourable sealants.

1.3 REFERENCE STANDARDS

- A. ASTM B221 - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes 2014.
- B. ASTM B221M - Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes (Metric) 2013.
- C. ASTM B308/B308M - Standard Specification for Aluminum-Alloy 6061-T6 Standard Structural Profiles 2010.
- D. ITS (DIR) - Directory of Listed Products current edition.
- E. UL (DIR) - Online Certifications Directory Current Edition.

1.4 SUBMITTALS

- A. See Section 01 3000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide joint assembly profiles, profile dimensions, anchorage devices and available colors and finish.
- C. Shop Drawings: Indicate joint and splice locations, miters, layout of the work, affected adjacent construction and anchorage locations.
- D. Manufacturer's Installation Instructions: Indicate rough-in sizes and required tolerances for item placement.

PART 2 PRODUCTS

2.1 EXPANSION JOINT COVER ASSEMBLIES

- A. Expansion Joint Cover Assemblies - General: Factory-fabricated and assembled; designed to completely fill joint openings, sealed to prevent passage of air, dust, water, smoke; suitable for traffic expected.

1. Joint Dimensions and Configurations: As indicated on drawings.
 2. Joint Cover Sizes: Selected to suit joint width and configuration, based on manufacturer's published recommendations and limitations.
 3. Joint Cover Styles: As indicated on drawings.
 4. Joint Movement Capability: If not indicated, provide minimum plus/minus 25 percent joint movement capability.
 5. Lengths: Provide covers in full lengths required; avoid splicing wherever possible.
 6. Anchors, Fasteners, and Fittings: Provided by cover manufacturer.
- B. Resilient Seal Type Covers: Having flat exposed surface without crevices that could collect dirt; designed to withstand expected movement without extrusion of seal from joint assembly; for exterior joints, weathertight.
- C. Covers In Fire Rated Assemblies: Provide cover assembly having fire rating equivalent to that of assembly into which it is installed.
1. Acceptable Evaluation Agencies: UL (DIR) and ITS (DIR).

2.2 MATERIALS

- A. Extruded Aluminum: ASTM B221 (ASTM B221M), 6063 alloy, T6 temper; or ASTM B308/B308M, 6061 alloy, T6 temper.
1. Exposed Finish Outdoors: Dark bronze anodized.
 2. Exposed Finish at Walls and Ceilings: Natural anodized.
- B. Resilient Seals:
1. For Walls: Any resilient material, flush, pleated, or hollow gasket.
 2. Color: To be selected.
- C. Anchors and Fasteners: As recommended by cover manufacturer.
- D. Backing Paint for Aluminum Components in Contact with Cementitious Materials: Asphaltic type.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Verify that joint preparation and dimensions are acceptable and in accordance with manufacturer's requirements.
- B. Verify that frames and anchors installed by others are in correct locations and suitable for installation of remainder of assembly.

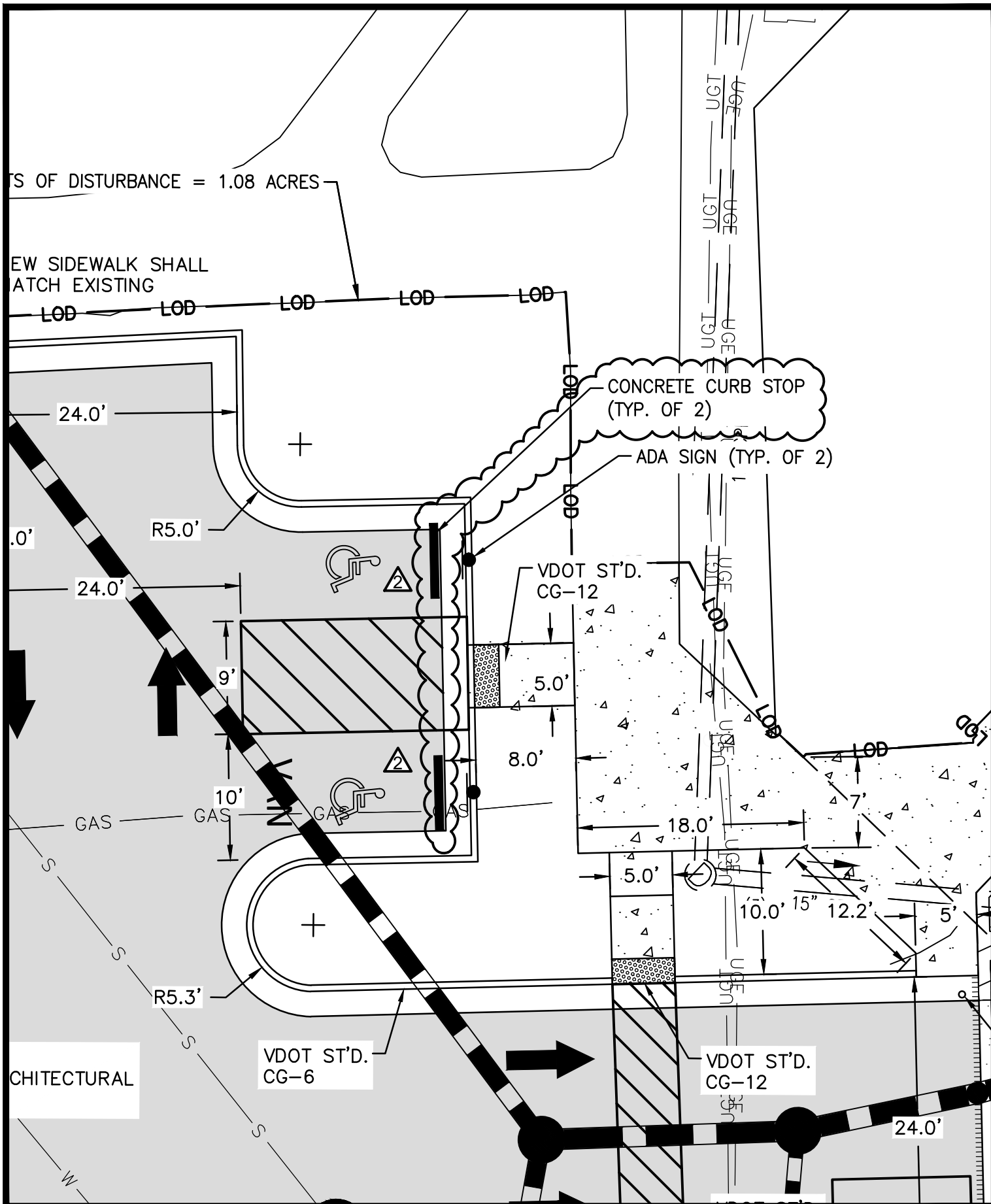
3.2 INSTALLATION

- A. Install components and accessories in accordance with manufacturer's instructions.
- B. Align work plumb and level, flush with adjacent surfaces.
- C. Rigidly anchor to substrate to prevent misalignment.

3.3 PROTECTION

- A. Do not permit traffic over unprotected floor joint surfaces.

END OF SECTION

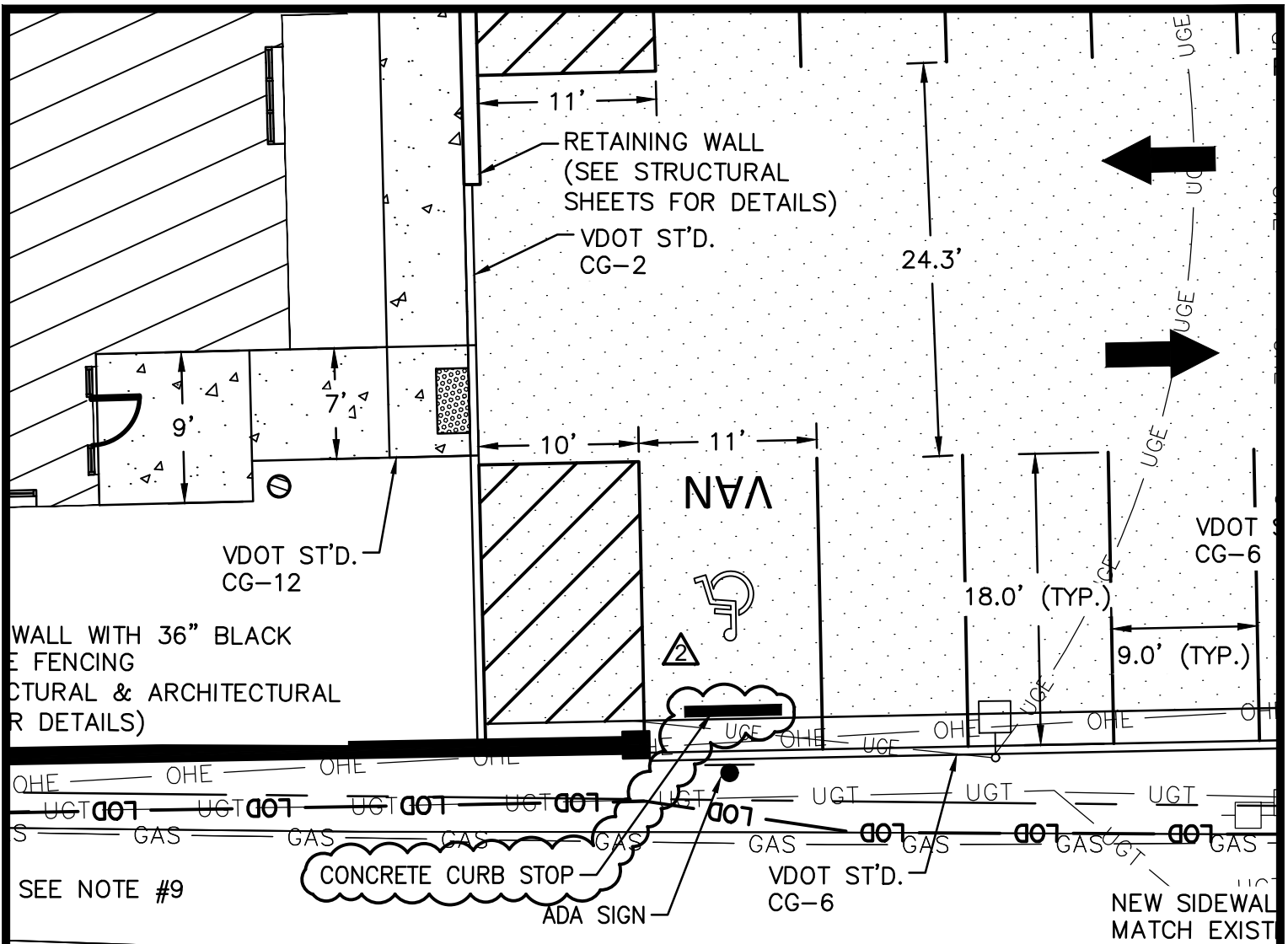


PROJECT NO. 16910	DATE 11-28-2023
FILE NAME Sheets 06-19-23	

MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING
ADDENDUM NO. 3 - EXCERPT FROM SHEET C300



CSK - 01



APPROVED: Engineering

Date

APPROVED: Planning

Date

TOC COVER AND NOTES REVISION 2022.08.03

PROJECT NO.

16910

DATE

11-28-2023

FILE NAME

Sheets 06-19-23

MONTGOMERY COUNTY MAGISTRATE AND
COURT SERVICES BUILDING

ADDENDUM NO. 3 - EXCERPT FROM SHEET C300



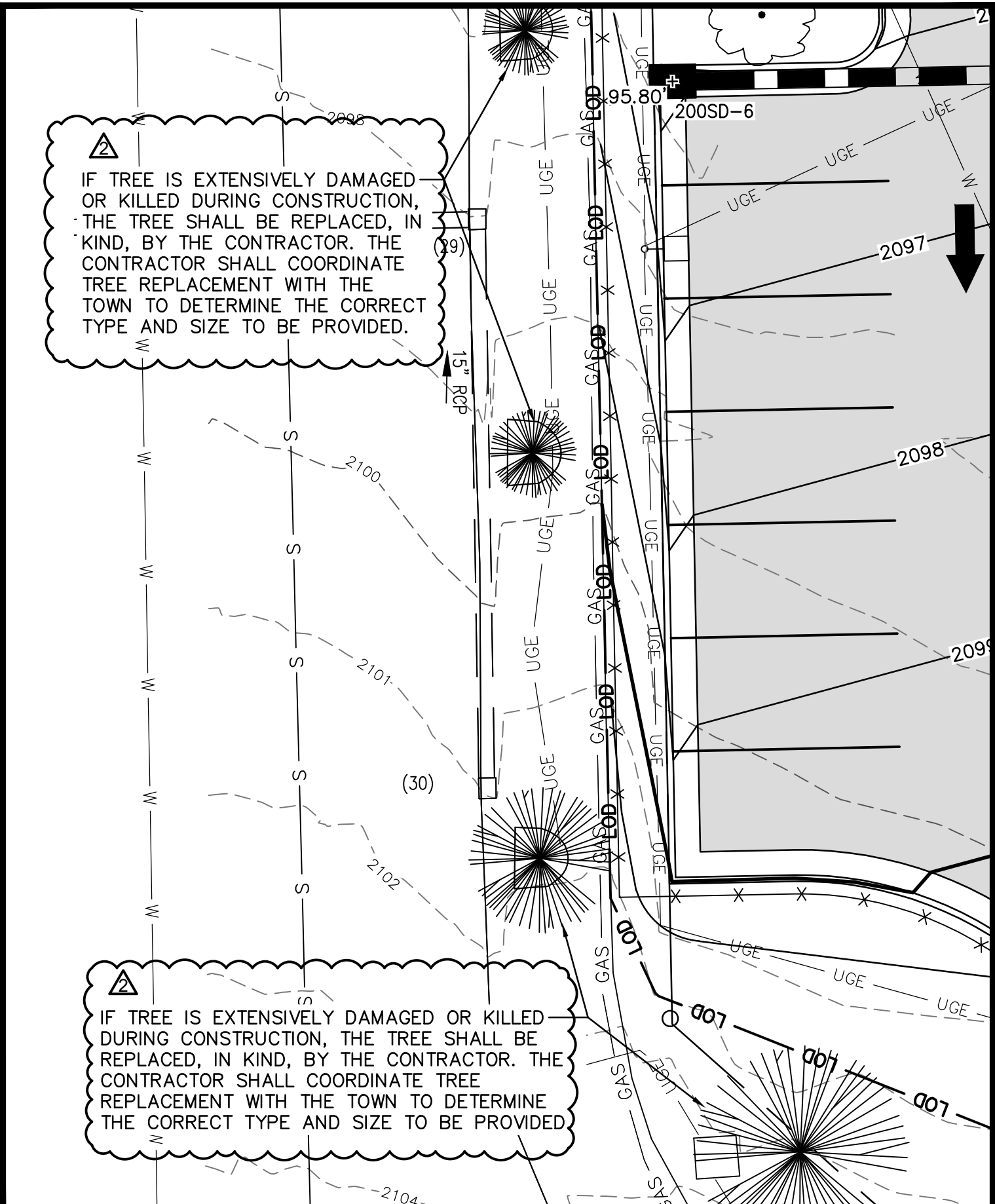
CSK - 02



IF TREE IS EXTENSIVELY DAMAGED OR KILLED DURING CONSTRUCTION, THE TREE SHALL BE REPLACED, IN KIND, BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE TREE REPLACEMENT WITH THE TOWN TO DETERMINE THE CORRECT TYPE AND SIZE TO BE PROVIDED.



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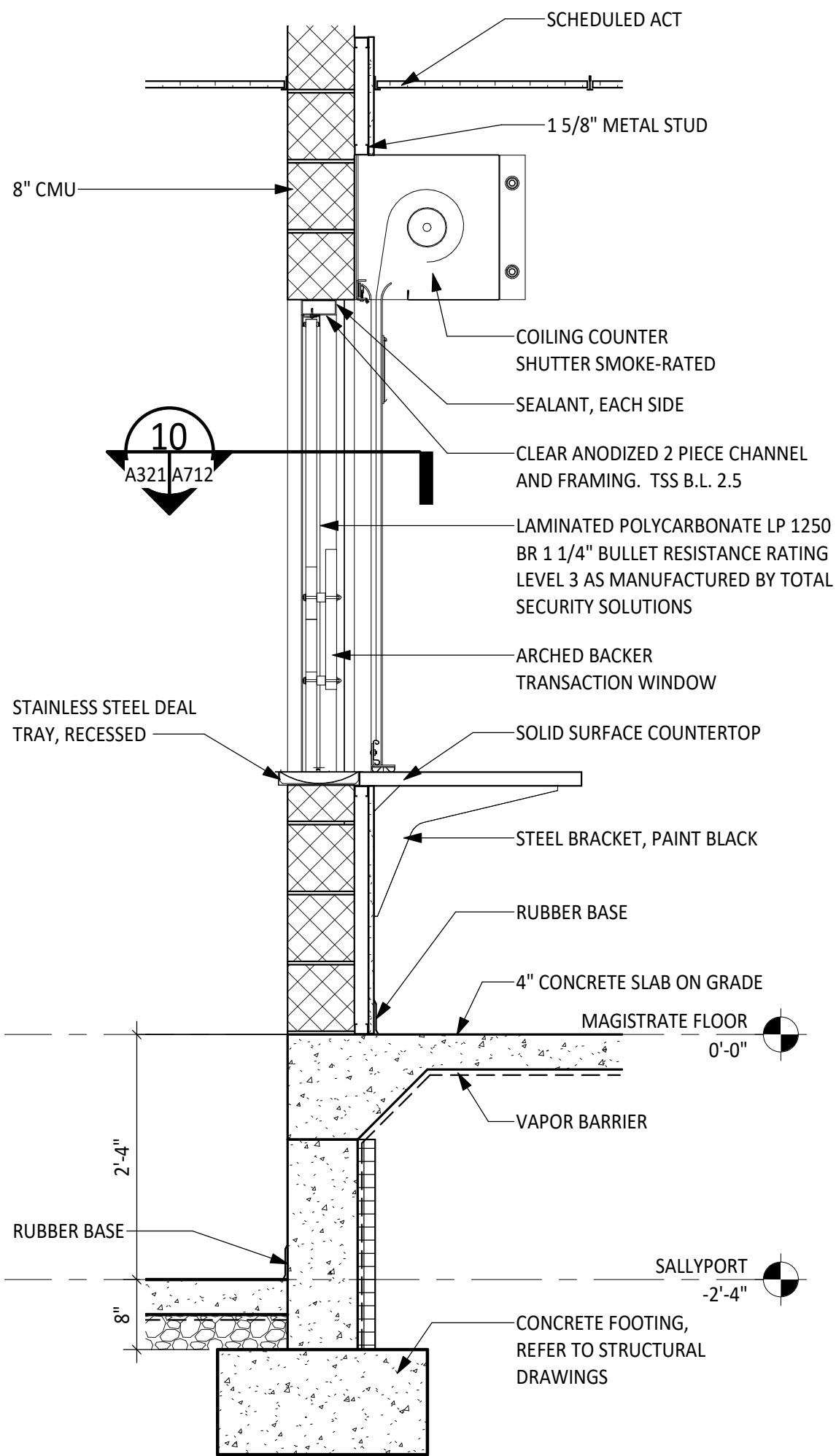
PROJECT NO. 16910	DATE 11-28-2023
FILE NAME Sheets 06-19-23	

MONTGOMERY COUNTY MAGISTRATE AND
COURT SERVICES BUILDING

ADDENDUM NO. 3 - EXCERPT FROM SHEET C301



CSK - 03



1 WALL SECTION
ASK-01 SCALE: 3/4" = 1'-0"

0 8" 1'-4" 2'-8"
SCALE: 3/4" = 1'-0"

MONTGOMERY COUNTY MAGISTRATE AND
COURT SERVICES BUILDING

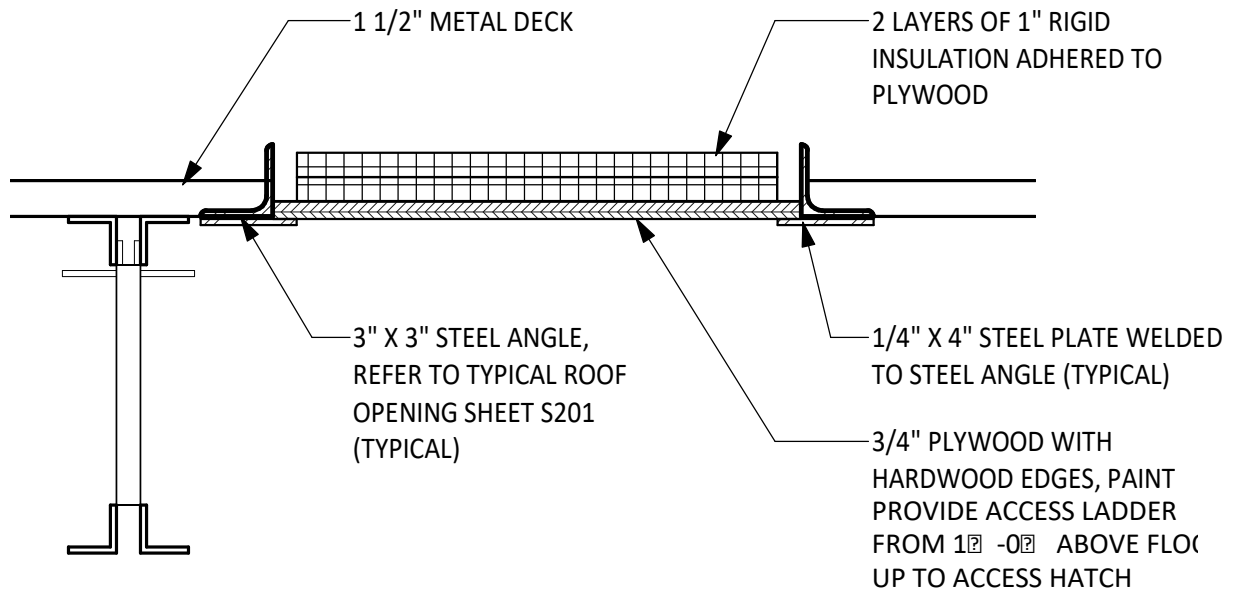
WALL SECTION

Drawn
16910

Designed	EFS
Drawn	KCF
Checked	EFS
Date	11/22/23



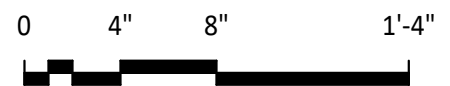
SKETCH
ASK-01



ROOF ACCESS HATCH

A002ASK-02

SCALE: 1 1/2" = 1'-0"



SCALE: 1 1/2" = 1'-0"

Project No.

16910

Date

11/22/23

File Name

MONTGOMERY COUNTY MAGISTRATE AND COURT
SERVICES BUILDING

ROOF ACCESS HATCH



SKETCH
ASK-02

CODES & REGULATIONS

2018 VIRGINIA CONSTRUCTION CODE (VCC)
2018 VIRGINIA EXISTING BUILDING CODE (VEBC)
2018 VIRGINIA MECHANICAL CODE
2018 VIRGINIA PLUMBING CODE
2018 VIRGINIA STATE FIRE PREVENTION CODE
NFPA 13 - 2016
NATIONAL ELECTRIC CODE (NEC)/NFPA 70, 2017 WITH VIRGINIA AMENDMENTS
NFPA 241 - 2013
2010 ADA STANDARDS FOR ACCESSIBLE DESIGN (ASAD) DATED SEPTEMBER 15, 2010
2015 VIRGINIA COURTHOUSE FACILITY GUIDELINES
2009 VCC/ANSI 117.1

REFERENCE CODES

- 2018 Virginia Energy Conservation Code (VECC)
1. C402.5 Air Leakage
2. C402.5.1 Air Barriers

GENERAL INFORMATION

SCOPE:	
NEW MAGISTRATE OFFICES AND COURT SERVICES FACILITY FOR MONTGOMERY COUNTY BOARD OF SUPERVISORS, IN CHRISTIANSBURG, VIRGINIA. SALLYPORT ADDITION AS EXISTING JAIL SEPARATED FROM NEW MAGISTRATE OFFICES AND COURT SERVICES FACILITY BY FIRE WALL.	
CONSTRUCTION CLASSIFICATION:	
CONSTRUCTION TYPE: IIB	
NEW BUILDING FIRE SUPPRESSION: NO EXCEPTION: SHORT TERM HOLDING AREA EXTENSION OF DRYPIPE SYSTEM	
ADDITION (SALLYPORT: DRY PIPE SYSTEM	
OCCUPANCY:	
DESCRIPTION: OFFICES	
OCCUPANCY CLASSIFICATION: B	
MAXIMUM TRAVEL DISTANCES:	
COMMON PATH OF TRAVEL (VCC 1006.2.1):	100 FT MAX
EXIT ACCESS TRAVEL DISTANCE (VCC TABLE 1017.2):	300 FT MAX
DEAD ENDS (VCC 1020.4):	50 FT MAX
INTERIOR FINISH REQUIREMENTS:	
EXIT ENCLOSURES & EXIT PASSAGEWAYS (VCC TABLE 803.11):	
-CLASS B FLAME SPREAD INDEX 26-75 SMOKE-DEVELOPED INDEX 0-450	
CORRIDOR WALLS & CEILINGS (VCC TABLE 803.11):	
-CLASS C FLAME SPREAD INDEX 76-200 SMOKE-DEVELOPED INDEX 0-450	
ROOM & ENCLOSED SPACE WALLS & CEILINGS (VCC TABLE 803.9):	
-CLASS C FLAME SPREAD INDEX 76-200 SMOKE-DEVELOPED INDEX 0-450	
FLOORS (VCC 804.4.2):	
-CLASS II CRITICAL RADIANT FLUX NOT LESS THAN 0.22 WATTS/CM	
ASBESTOS CONTAINING MATERIALS AND/OR PAINTS CONTAINING LEAD SHALL NOT BE USED IN ANY FORM ON THE PROJECT.	
DESIGN LIVE LOADS:	
REFER TO STRUCTURAL DRAWINGS	

ALLOWABLE HEIGHT

OCCUPANCY	CONSTRUCTION TYPE	HEIGHT PERMITTED (VCC TABLE 503)	ACTUAL HEIGHT
B	IIB	3 STORIES 55 FT	1 STORIES 17 FT

ALLOWABLE AREA

OCCUPANCY	CONSTRUCTION TYPE	AREA PERMITTED (VCC TABLE 503)	FRONTAGE INCREASE (VCC 506.2)	TOTAL AREA ALLOWED	ACTUAL AREA
B	IIB	23,000 SF	N/A	23,000 SF	6,980 SF

PLUMBING FIXTURE QUANTITY REQUIREMENTS

PLUMBING FIXTURE REQUIREMENTS (REFER TO VUSBC TABLE 2902.1)

OCCUPANCY	LOAD	WATER CLOSETS				LAVATORIES			DF RATIO	DRINKING FOUNTAINS	SERVICE SINK
		RATIO	MALE	RATIO	FEMALE	RATIO	MALE	FEMALE			
BUSINESS (B) MAGISTRATE	20	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	1	1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50	1	1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80	1	1	1 PER 100	1	1 SERVICE SINK
BUSINESS (B) COURT SERVICES	27		1		1	1/100	1	1	1 PER 100	1	1 SERVICE SINK
TOTAL			2		2		2	2		2	2

OCCUPANCY: <INSERT OCCUP> (X)		
PLUMBING FIXTURES	REQUIRED	PROVIDED
WATER CLOSETS	4	5
LAVATORIES	4	5
DRINKING FOUNTAINS	2	2
SERVICE SINKS	2	2

BUILDING AREA SUMMARY

CODE BUILDING AREA (VCC 502.1):	6,980 SF
GROSS BUILDING AREA:	7,445 SF
BUILDING PERIMETER:	587 FT

OCCUPANCY LOAD SUMMARY

CALCULATED PER VCC TABLE 1004.1.2 (SEE EXCEPT BELOW) OR ACTUAL NUMBER OF OCCUPANTS SCHEDULED, WHICHEVER IS GREATER

REFER TO LIFE SAFETY DRAWING FOR OCCUPANT LOAD BREAKDOWN	
MAGISTRATE OFFICES	20
COURT SERVICES	27
TOTAL	47

FIRE-RESISTANCE RATING REQUIREMENTS

FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS [HOURS]		
(EXCEPT FROM VCC TABLE 601, UON)		
CONSTRUCTION TYPE: IIB		
BUILDING ELEMENT	FIRE RATING	
PRIMARY STRUCTURAL FRAME	0 HR	
BEARING WALLS		
EXTERIOR	0 HR	
INTERIOR	0 HR	
NONBEARING WALLS & PARTITIONS		
EXTERIOR (VCC TABLE 602)	0 HR	
NONBEARING WALLS & PARTITIONS		
INTERIOR	0 HR	
FLOOR CONSTRUCTION & SECONDARY MEMBERS	0 HR	
ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HR	
MISCELLANEOUS FIRE-RESISTANCE RATING REQUIREMENTS		
BUILDING ELEMENT	FIRE RATING	
CORRIDORS [VCC TABLE 1020.1]	0 HR	
DRAFTSTOPPING REQUIREMENTS PER VUSBC 718.4.3		
ATTICS OR CONCEALED ROOF SPACES	3000 SF MAX AREA	

MEANS OF EGRESS

LEVEL 1	REQUIRED	PROVIDED
NUMBER OF EXITS (VCC SECTION 1006.3.1)	2	5

FENESTRATION AREA SUMMARY

ELEVATION	WALL AREA	GLASS AREA
EAST	1372 SF	176 SF
SOUTH	1027 SF	93 SF
WEST	1280 SF	300 SF
TOTALS	3679 SF	569 SF
569 / 3679 = .155 OR 15.5% < 30% MAX PER VECC		

GENERAL LIFE SAFETY NOTES:

- REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF EXIT LIGHTS, EMERGENCY LIGHTS, AND FIRE ALARM SYSTEM.
- REFER TO FIRE PROTECTION DRAWINGS AND SPECIFICATIONS FOR SPRINKLER SYSTEM REQUIREMENTS.
- ALL PENETRATIONS OF FIRE- OR SMOKE-RATED CONSTRUCTION AND TERMINATION OF RATED CONSTRUCTION AT STRUCTURE ABOVE, SHALL BE FIRE BLOCKED AND SEALED IN ACCORDANCE WITH REQUIREMENTS OF THE BUILDING CODE, NFPA, AND UL.
- FIRE-RATED ASSEMBLIES SHALL BE DESIGNATED ABOVE CEILINGS AND ON THE INSIDE OF ALL CEILING ACCESS DOORS WHICH PROVIDE ACCESS TO SUCH FIRE RATED ASSEMBLIES BY SIGNAGE HAVING LETTERS NO SMALLER THAN 3-INCHES IN HEIGHT. SUCH SIGNAGE SHALL INDICATE THE FIRE-RESISTANT RATING OF THE ASSEMBLY AND TYPE OF ASSEMBLY AS IDENTIFIED IN THE LIFE SAFETY DRAWINGS. SIGNAGE SHALL BE PROVIDED AT HORIZONTAL INTERVALS OF 8'-0" OC MAX.
- MOUNT FIRE EXTINGUISHER CABINETS AND BRACKET-MOUNT EXTINGUISHERS WITH CENTERLINE OF CABINET DOOR PULL OR EXTINGUISHER ACTUATOR AT 4'-0" AFF.

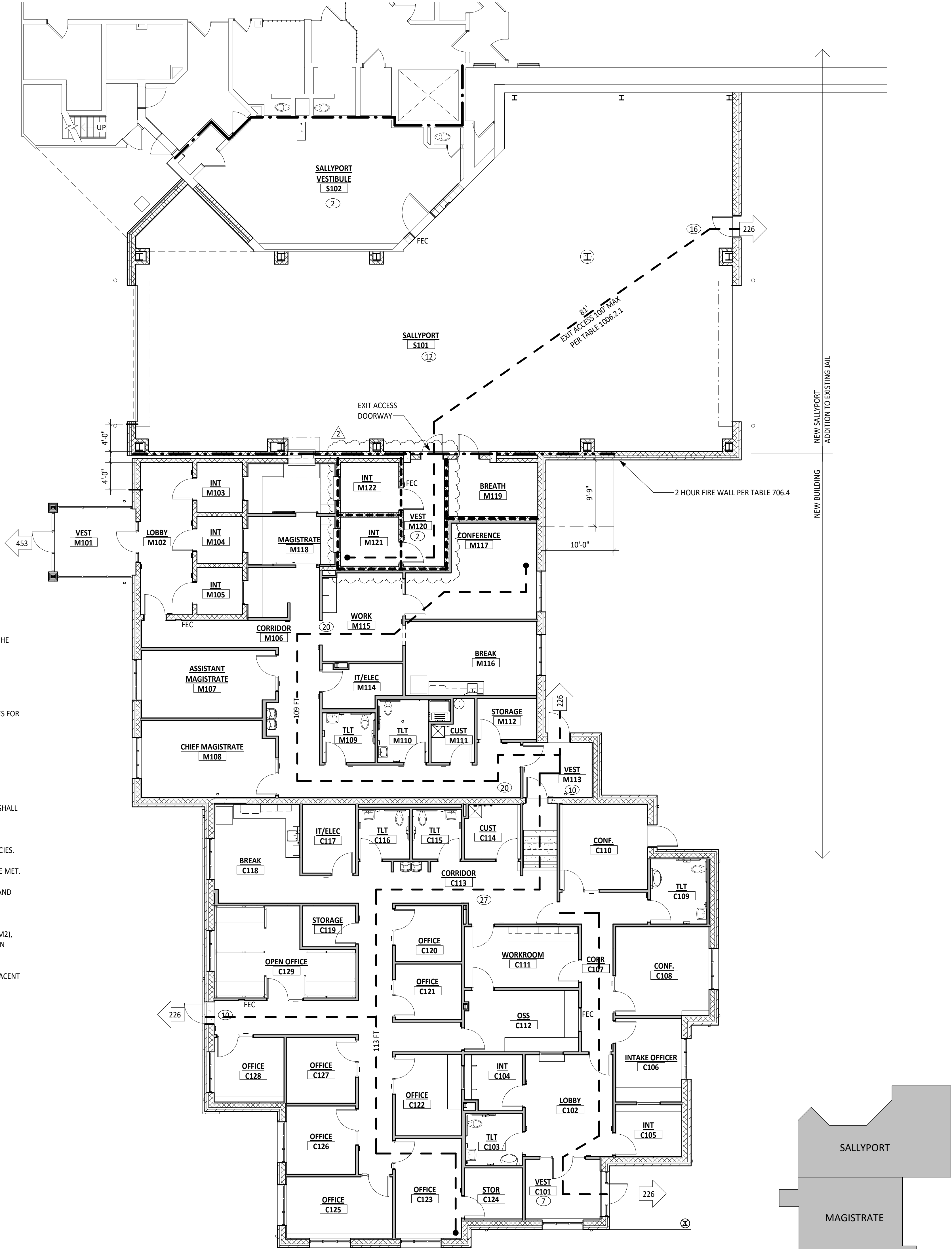
LIFE SAFETY LEGEND

← - - - DISTANCE - - - →	EGRESS PATH
_____	OCCUPANCY BOUNDARY
— · — · — · — · — · — · — · — · — · —	1-HOUR FIRE BARRIER
- - - - -	2-HOUR FIRE BARRIER
- - - - -	SMOKE PARTITION (NON-FIRE RATED)
AREA (SF) #	OCCUPANCY LOAD DESIGNATION
### →	EGRESS DOOR CAPACITY
☐ FEC	FIRE EXTINGUISHER CABINET
☐ FE	FIRE EXTINGUISHER W/ WALL CABINET

431.1 GENERAL.

IN ALL GROUPS OTHER THAN GROUP E, SHORT-TERM HOLDING AREAS SHALL BE PERMITTED TO BE CLASSIFIED AS THE MAIN OCCUPANCY, PROVIDED ALL OF THE FOLLOWING ARE MET:

- PROVISIONS ARE MADE FOR THE RELEASE OF ALL RESTRAINED OR DETAINED OCCUPANTS OF SHORT-TERM HOLDING AREAS AT ALL TIMES.
- AGGREGATE AREA OF SHORT-TERM HOLDING AREAS SHALL NOT OCCUPY MORE THAN 10 PERCENT OF THE BUILDING AREA OF THE STORY IN WHICH THEY ARE LOCATED AND SHALL NOT EXCEED THE TABULAR VALUES FOR BUILDING AREA IN TABLE 506.2 WITHOUT BUILDING AREA INCREASES.
SHORT TERM HOLDING AREA: 384 SF
BUILDING AREA: 6,980 SF
384/6980 = 5.5% < 10%
- RESTRAINED OR DETAINED OCCUPANT LOAD OF EACH SHORTTERM HOLDING AREA SHALL NOT EXCEED 20.
OCCUPANT LOAD OF DETAINED OCCUPANTS = 2 OCCUPANTS
- AGGREGATE RESTRAINED OR DETAINED OCCUPANT LOAD IN SHORT-TERM HOLDING AREAS PER BUILDING SHALL NOT EXCEED 80.
AGGREGATE LOAD OF DETAINED OCCUPANTS = 6 OCCUPANTS
- COMPLIANCE WITH SECTIONS 408.3.7, 408.3.8, 408.4, AND 408.7 AS APPLICABLE FOR GROUP I-3 OCCUPANCIES.
- REQUIREMENTS OF THE MAIN OCCUPANCY IN WHICH SHORTTERM HOLDING AREAS ARE LOCATED SHALL BE MET.
- FIRE AREAS CONTAINING SHORT-TERM HOLDING AREAS SHALL BE PROVIDED WITH A FIRE ALARM SYSTEM AND AUTOMATIC SMOKE DETECTION SYSTEM COMPLYING WITH SECTION 907.2.6.3 AS APPLICABLE TO I-3 OCCUPANCIES. FIRE ALARM AND AUTOMATIC SMOKE DETECTION PROVIDED.
- WHERE EACH FIRE AREA CONTAINING SHORT-TERM HOLDING AREAS EXCEEDS 12,000 SQUARE FEET (1115 M2), SUCH FIRE AREAS SHALL BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM COMPLYING WITH SECTION 903.3. N/A
- SHORT-TERM HOLDING AREAS SHALL BE SEPARATED FROM OTHER SHORT-TERM HOLDING AREAS AND ADJACENT SPACES BY SMOKE PARTITIONS COMPLYING WITH SECTION 710. SMOKE PARTITIONS PROVIDED.



LIFE SAFETY PLAN
1/8" = 1'-0"
PLAN NORTH

KEY PLAN

0 4' 8' 16'
SCALE: 1/8" = 1'-0"

COMMONWEALTH OF VIRGINIA
ERICA F. SUNSHINE
Lic No. 9129
10.11.2025
ARCHITECT

MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING

PROJECT DATA & LIFE SAFETY PLAN

No.	Date	12/01/2023	ADDENDUM NO. 4	Purpose of Document Issue
2				

Designed	EFS
Drawn	TWM
Checked	EFS
Date	10/11/2023

Project No.	16910
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THOMPSON & LITTON

Sheet No.

G002

EXISTING JAIL BUILDING
CODE INFORMATION

EXISTING BUILDING CONSTRUCTION TYPE:	IIB
EXISTING OCCUPANCY:	I-3
EXISTING AREA:	8,234 SF
ADDITION (SALLYPORT):	3,834 SF
TOTAL AREA:	12,068 SF
ALLOWABLE AREA (PER 2018 VCC):	30,000 SF
FIRE SUPPRESSION:	YES
DRY PIPE SYSTEM IN SALLYPORT ADDITION	YES
ALLOWABLE NUMBER OF STORIES:	3
ACTUAL STORIES	3
SALLYPORT OCCUPANT LOAD (BASED ON S-2)	12

2018 VIRGINIA EXISTING
BUILDING CODE

THE ADDITION TO THE EXISTING BUILDING IS A SALLYPORT TO BE UTILIZED BY THE EXISTING JAIL AND THE NEW MAGISTRATE'S OFFICE. THE SALLYPORT IS AN S-2 OCCUPANCY IN AN I-3 BUILDING. THE ADDITION INCREASES THE SIZE OF THE EXISTING SALLYPORT WHICH IS CURRENTLY SEPARATED FROM THE JAIL BY A 1-HOUR FIRE RATED BARRIER.

2018 VBC CHAPTER 4

403.1 ADDITIONS

ACCESSIBILITY PROVISIONS FOR NEW CONSTRUCTION SHALL APPLY TO ADDITIONS. AN ADDITION THAT AFFECTS THE ACCESSIBILITY TO, OR CONTAINS AN AREA OF, A PRIMARY FUNCTION SHALL COMPLY WITH THE REQUIREMENTS IN SECTION 404.3, AS APPLICABLE. 404.3 ALTERATIONS AFFECTING AN AREA CONTAINING A PRIMARY FUNCTION WHERE AN ALTERATION AFFECTS OR COULD AFFECT THE USABILITY OF OR ACCESS TO AN AREA CONTAINING A PRIMARY FUNCTION, THE ROUTE TO THE PRIMARY FUNCTION AREA SHALL BE ACCESSIBLE. THE ACCESSIBLE ROUTE TO THE PRIMARY FUNCTION AREA SHALL INCLUDE TOILET FACILITIES AND DRINKING FOUNTAINS THAT SHALL ALSO BE ACCESSIBLE TO AND USABLE BY INDIVIDUALS WITH DISABILITIES, SERVING THE AREA OF PRIMARY FUNCTION.

404.4 SCOPING FOR ALTERATIONS

THE PROVISIONS OF SECTIONS 404.4.1 THROUGH 404.1.15 SHALL APPLY TO ALTERATIONS TO EXISTING BUILDINGS AND FACILITIES

404.4.1 ENTRANCES

WHERE AN ALTERATION INCLUDES ALTERATIONS TO AN ENTRANCE, AND THE FACILITY HAS AN ACCESSIBLE ENTRANCE ON AN ACCESSIBLE ROUTE, THE ALTERED ENTRANCE IS NOT REQUIRED TO BE ACCESSIBLE UNLESS REQUIRED BY SECTION 404.3. SIGNS COMPLYING WITH SECTION 1111 OF THE VCC SHALL BE PROVIDED. EXCEPTION: WHERE AN ALTERATION INCLUDES ALTERATIONS TO AN ENTRANCE, AND THE FACILITY HAS AN ACCESSIBLE ENTRANCE, THE ALTERED ENTRANCE IS NOT REQUIRED TO BE ACCESSIBLE, UNLESS REQUIRED BY

404.3. SIGNS COMPLYING WITH SECTION 1111 OF THE VCC SHALL BE PROVIDED.

CHAPTER 8 ADDITIONS

802.1 HEIGHT LIMITATIONS

NEW ADDITION DOES NOT INCREASE THE HEIGHT OF THE BUILDING

802.2 AREA LIMITATIONS

NEW ADDITION DOES NOT INCREASE THE AREA OF THE EXISTING BUILDING BEYOND THE PERMITTED UNDER CHAPTER 5 OF THE VCC (SEE ABOVE)

802.3 FIRE PROTECTION SYSTEMS

THE NEW ADDITION WILL HAVE A FIRE SUPPRESSION SYSTEM (DRY PIPE)

803.1 COMPLIANCE WITH THE VCC

ALL STRUCTURAL ELEMENTS WILL COMPLY WITH THE 2018 VCC

803.5 SNOW DRIFT LOADS

ANY STRUCTURAL ELEMENT OF AN EXISTING BUILDING SUBJECT TO ADDITIONAL LOADS FROM THE EFFECTS OF SNOW DRIFT AS A RESULT OF AN ADDITION SHALL COMPLY WITH THE VCC.

THE EXISTING BUILDING DOES NOT HAVE ADDITIONAL SNOW DRIFT LOADING.

805 ENERGY CONSERVATION

805.1 GENERAL

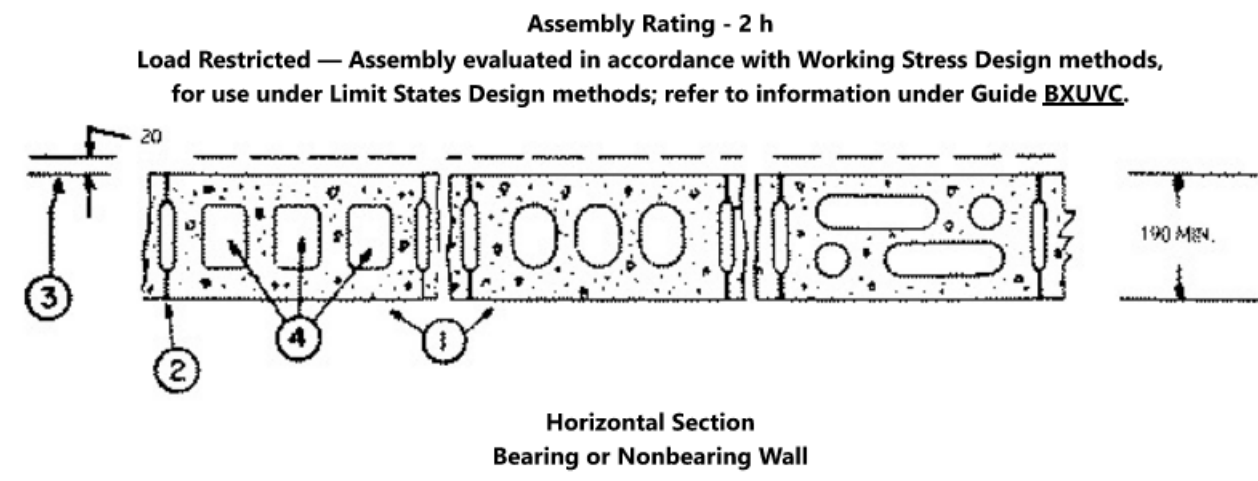
ADDITIONS TO AN EXISTING BUILDING OR PORTION THEREOF SHALL CONFORM TO THE PROVISIONS OF THE VECC AS THOSE PROVISIONS RELATE TO NEW CONSTRUCTION WITHOUT REQUIRING THE UNALTERED PORTION OF THE EXISTING BUILDING TO COMPLY WITH THE VECC. ADDITIONS SHALL NOT OVERLOAD EXISTING BUILDING SYSTEMS. AN ADDITION SHALL BE DEEMED TO COMPLY WITH THE VECC IF THE ADDITION ALONE COMPLIES OR IF THE EXISTING BUILDING AND ADDITION COMPLY WITH THE VECC AS A SINGLE BUILDING.

THE JAIL ADDITION, A SALLYPORT IS NOT A CONDITIONED SPACE AND DOES NOT OVERLOAD THE EXISTING BUILDING SYSTEMS.

Design No. U905

July 28, 2023

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- Concrete Blocks of Various Designs** — (CAZTC). 2 h rating based on noncombustible members framed into wall. Rating is 1 h when combustible members are framed into wall.
BASALITE CONCRETE PRODUCTS VANCOUVER UL
BRAMPTON BRICK LTD — Types "PCR Blocks", "Atlas FR2", "BV-FR2 Blocks", "PL-FR2 Blocks", "CA-FR2 Blocks" and "HI-FR2 Blocks".
BROWNSEY BLOCK (1985) LTD — Types "Brownsey 2 Hour" and "Lightweight 2 Hour" blocks.
EXPOCRETE, AN OLDCASTLE COMPANY - EDMONTON
GROUPE PERMACON, DIV OF OLDCASTLE BUILDING PRODUCTS CANADA INC
TRISTAR BRICK & BLOCK LTD — 190 mm thick Natural Aggregate Concrete Blocks, 20 CM and 21 CM Semilite Standard Blocks.

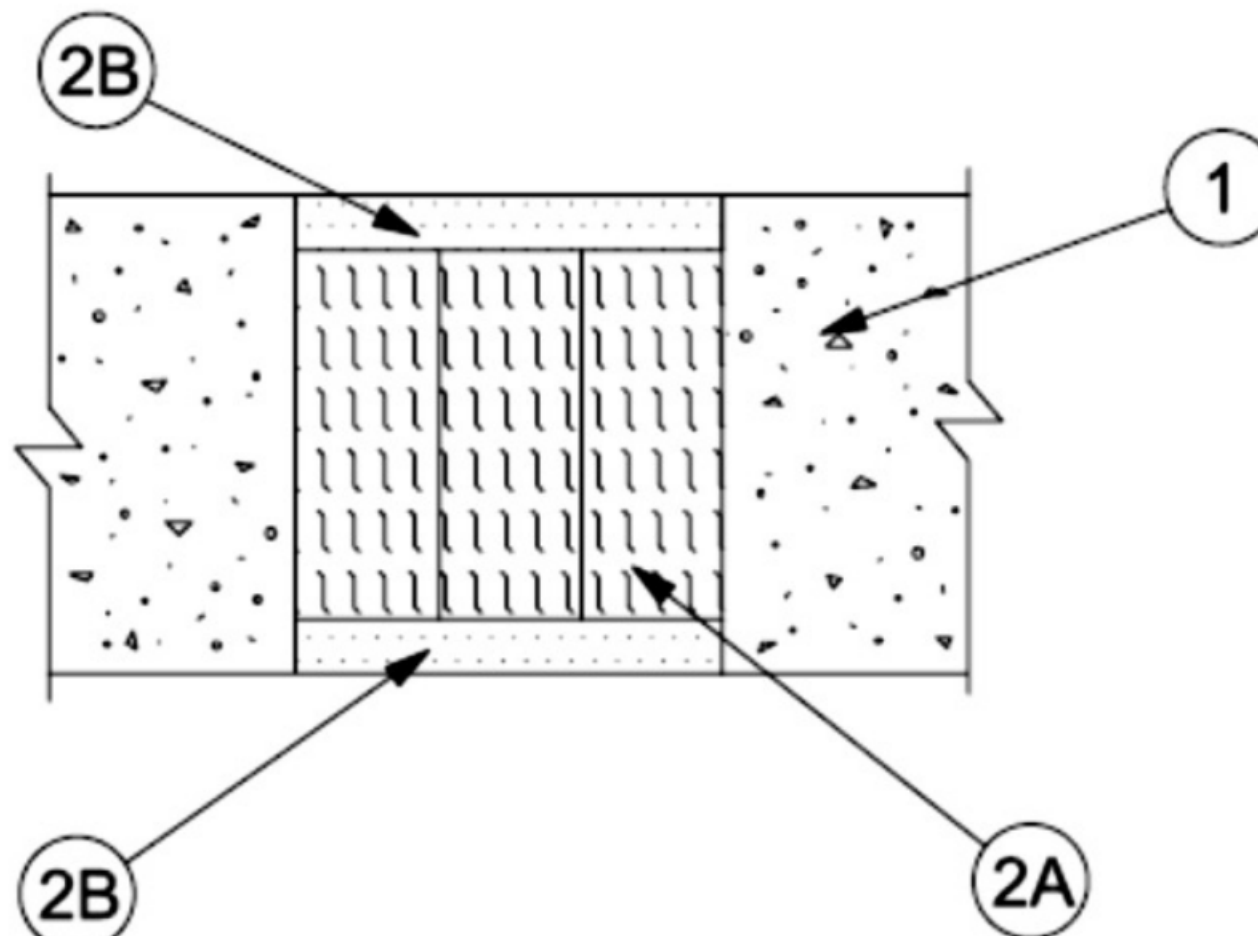
- Mortar** — Blocks laid in full bed of mortar, 13 mm thick, of 3 parts of clean and sharp sand to 1 part Portland Cement (proportioned by volume), and 15% hydrated lime (by cement volume). Vertical joints staggered.
- Portland, Cement, Stucco or Gypsum Plaster** — Add 1/2 h to Classification if used. Where combustible members are framed in wall, plaster or stucco must be applied on the face opposite framing to achieve a max Classification of 1-1/2 h.
- Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, burned clay or shale (Rotary Kiln Process) or water repellent vermiculite masonry fill insulation, add 2 h to Classification.

System No. WW-D-1080

July 13, 2009

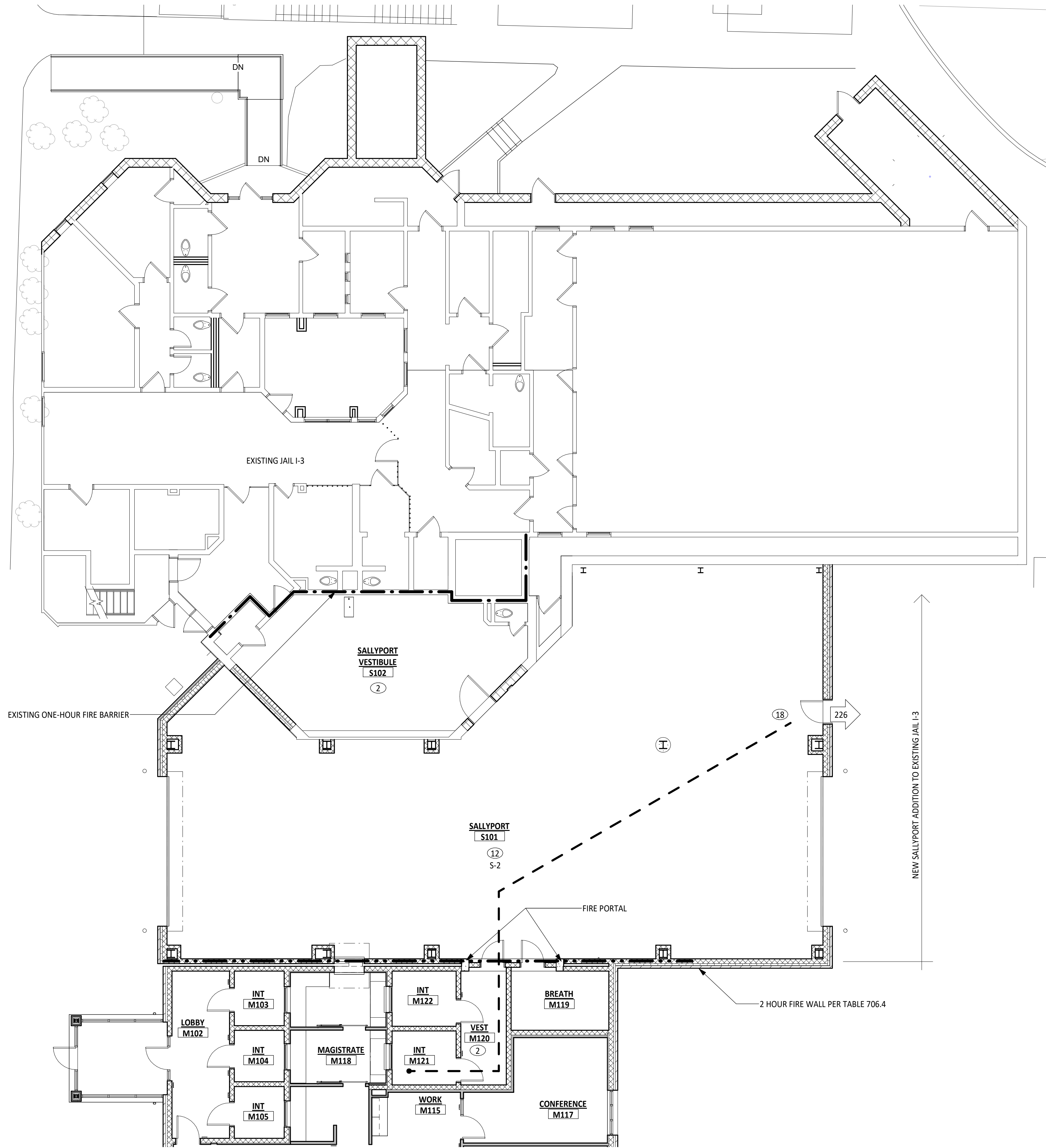
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Assembly Rating — 2 Hr
Nominal Joint Width — 3 In.
Class II Movement Capabilities — 17% Compression Or Extension
L Rating at Ambient — Less than 1 CFM/Lin Ft
L Rating at 400 F — Less than 1 CFM/Lin Ft



- Wall Assembly** — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600-2400 kg/m³) structural concrete. Wall may also be constructed of any UL Classified **Concrete Blocks**. See **Concrete Blocks** (CAZT) category in the Fire Resistance Directory for names of manufacturers.
- Joint System** — Max width of joint (at time of installation of joint system) is 3 in. (76 mm). The joint system is designed to accommodate a max 17 percent in compression or extension from its installed width. The joint system shall consist of the following:
 - Forming Material** — Min 4 pcf (64 kg/m³) mineral wool batt insulation installed in joint opening as a permanent form. Pieces of batt cut to min width of 4 in. (102 mm) and installed edge-first into joint opening, parallel with joint direction, such that batt sections are compressed min 40 percent in thickness and that the compressed batt sections are recessed from both surfaces of the wall as required to accommodate the required thickness of fill material. Adjoining lengths of batt to be tightly-buttet with buttet seams spaced min 24 in. (610 mm) apart along the length of the joint.
 - Fill, Void or Cavity Material** — **Sealant** — Min 1/4 in. (6 mm) thickness of fill material applied within the joint, flush with both surfaces of wall.
HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP606 Flexible Firestop Sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



SALLYPORT LIFE SAFETY PLAN

1/8" = 1'-0"

LIFE SAFETY LEGEND

- EGRESS PATH
- OCCUPANCY BOUNDARY
- 1-HOUR FIRE BARRIER
- 2-HOUR FIRE BARRIER
- SMOKE PARTITION (NON-FIRE RATED)
- OCCUPANCY LOAD DESIGNATION
- EGRESS DOOR CAPACITY
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER W/ WALL CABINET

KEY PLAN

0 4' 8' 16'
SCALE: 1/8" = 1'-0"



MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING

SALLYPORT CODE INFORMATION

No.	2	Date	12/01/2023	ADDENDUM NO. 4	Purpose of Document Issue
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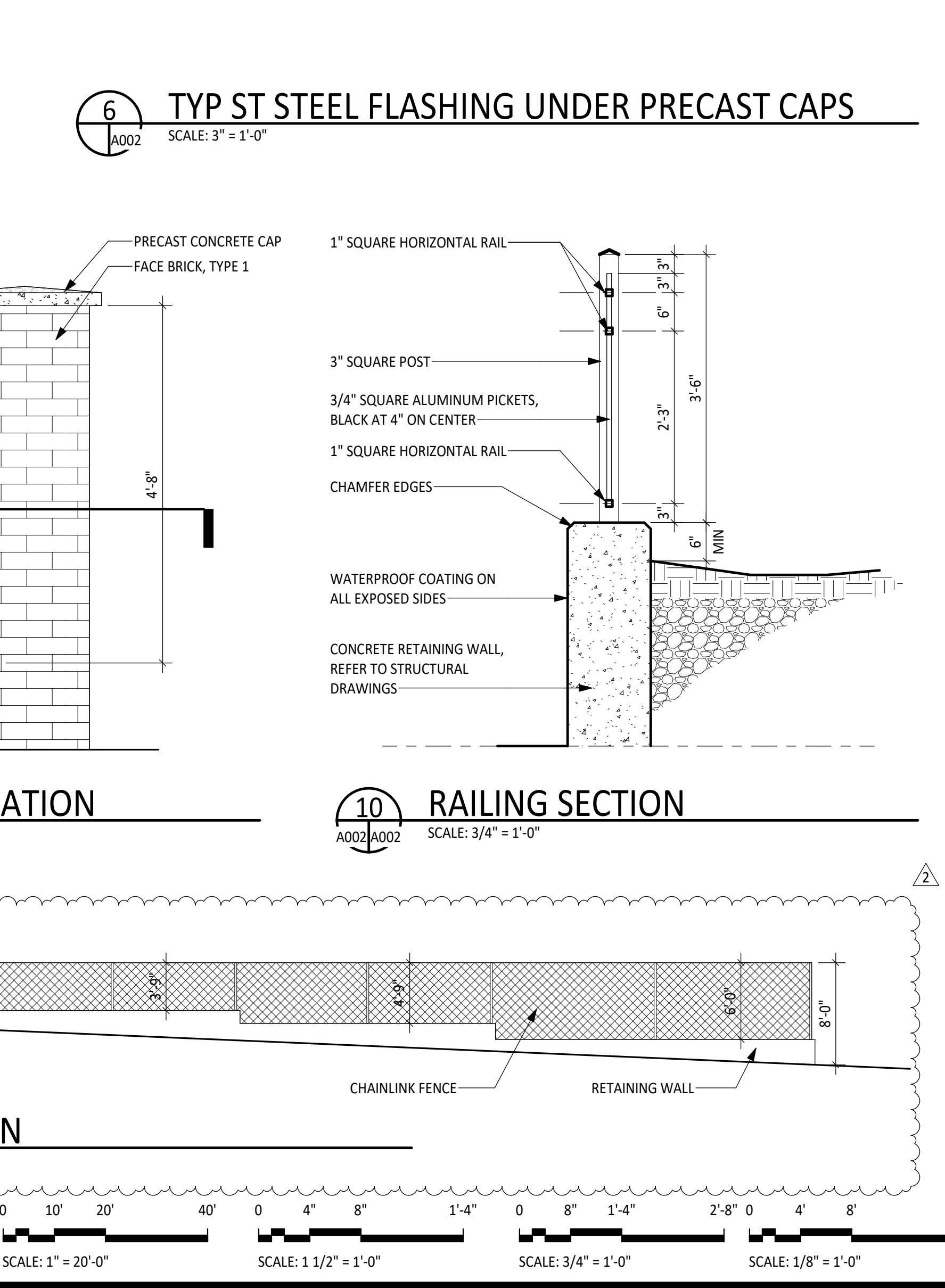
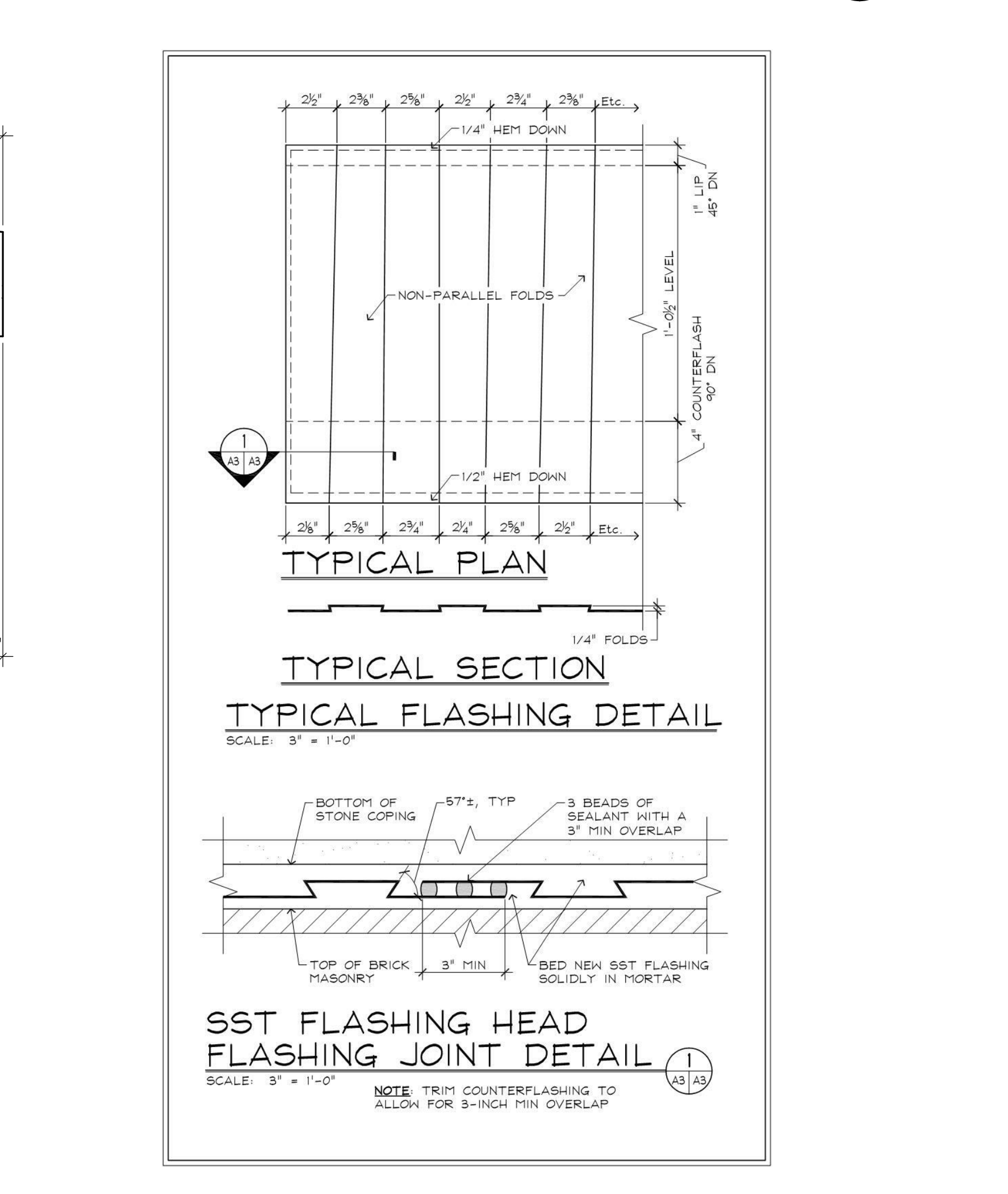
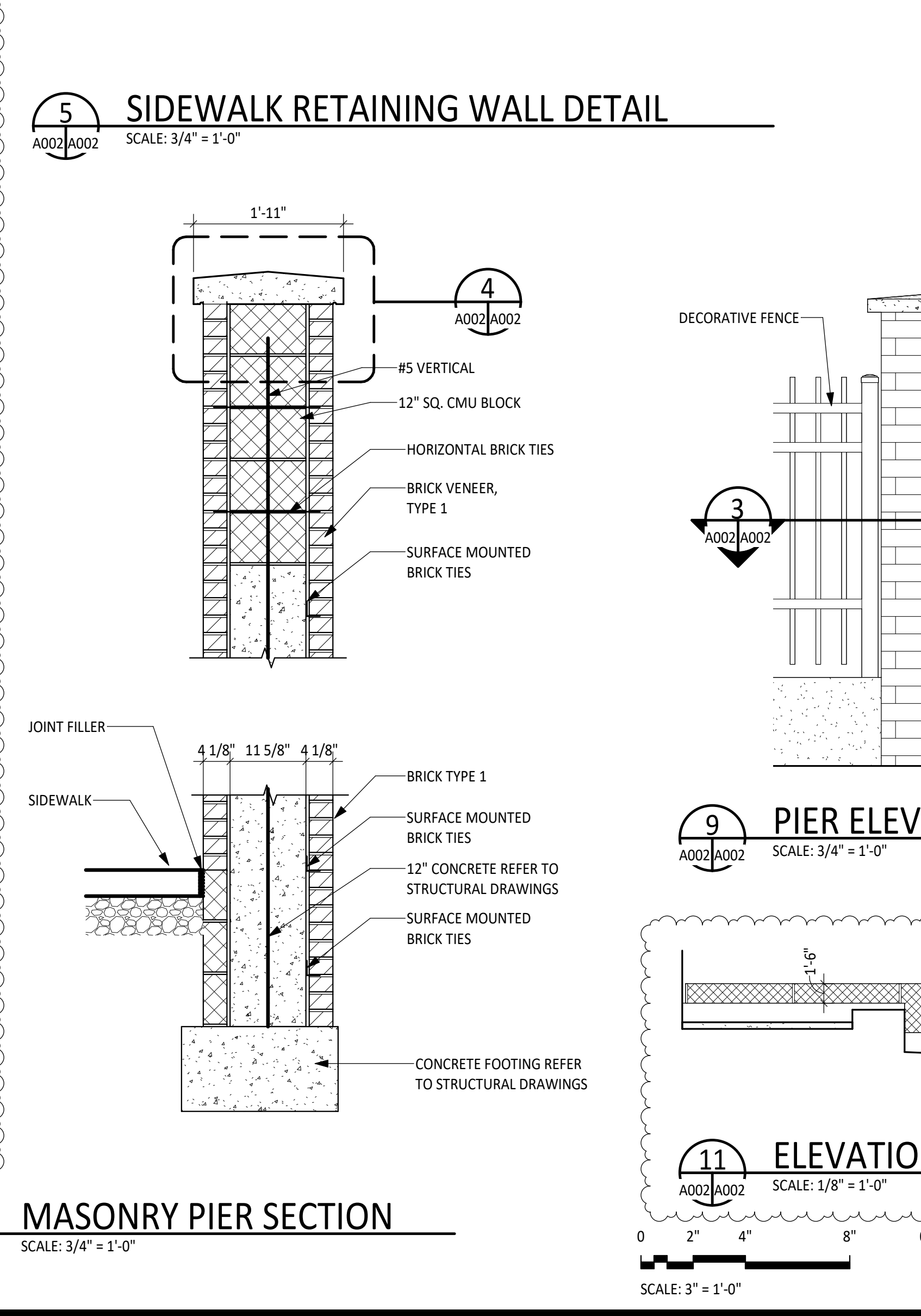
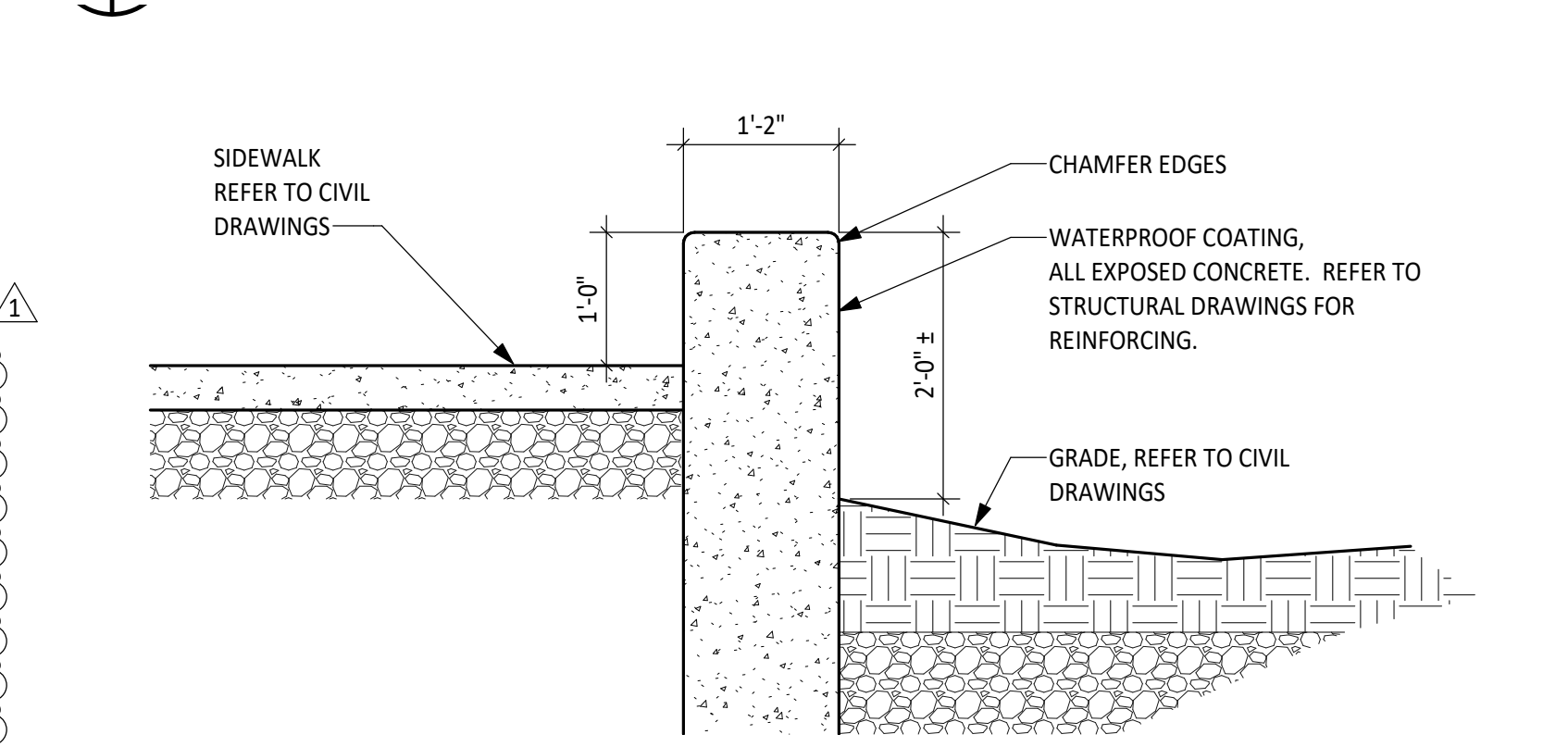
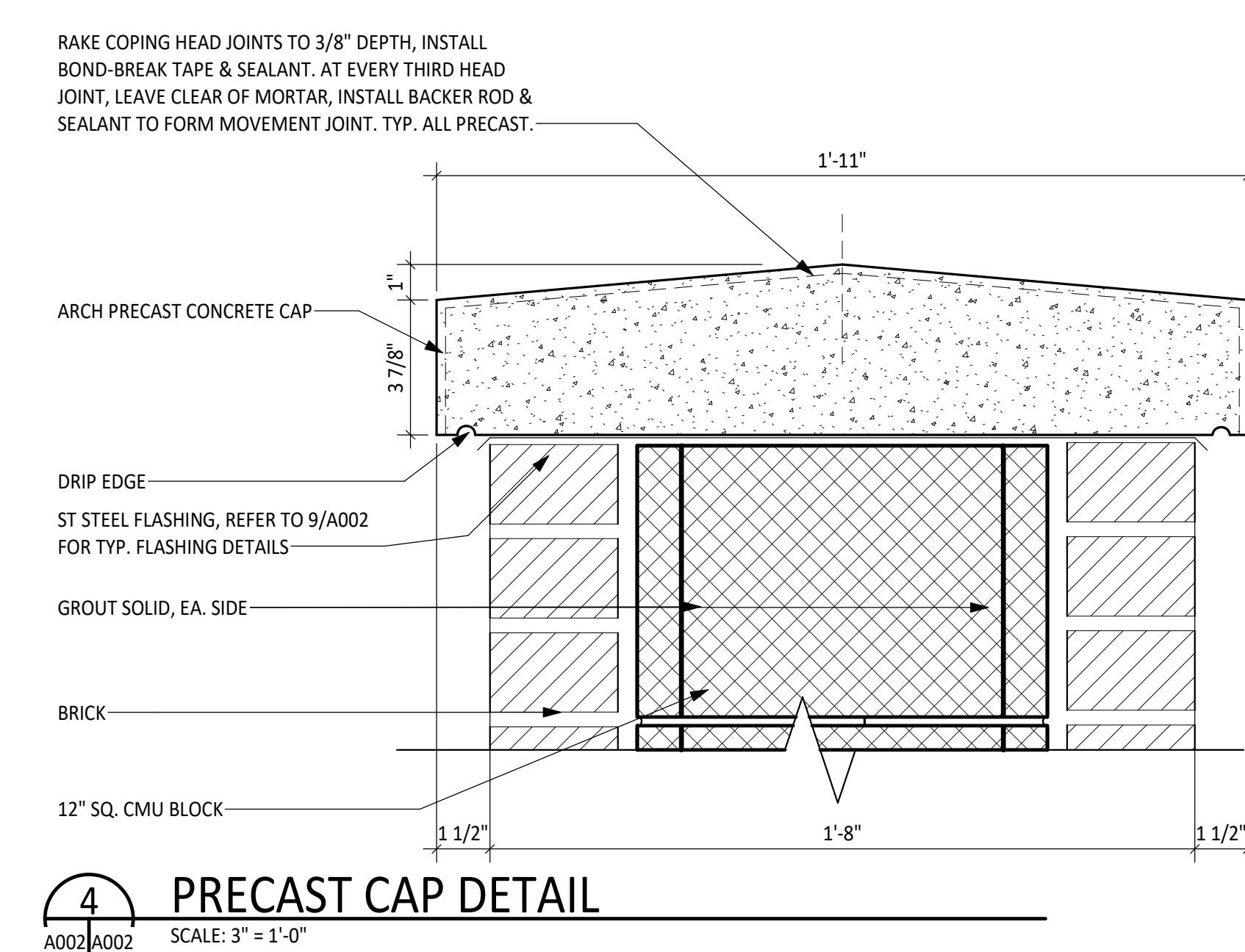
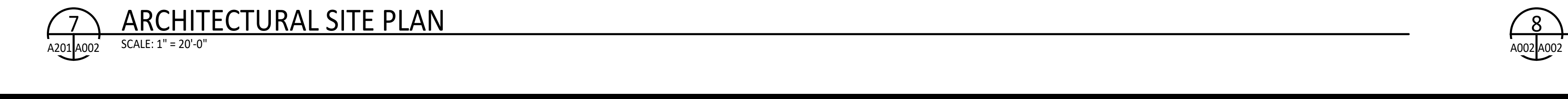
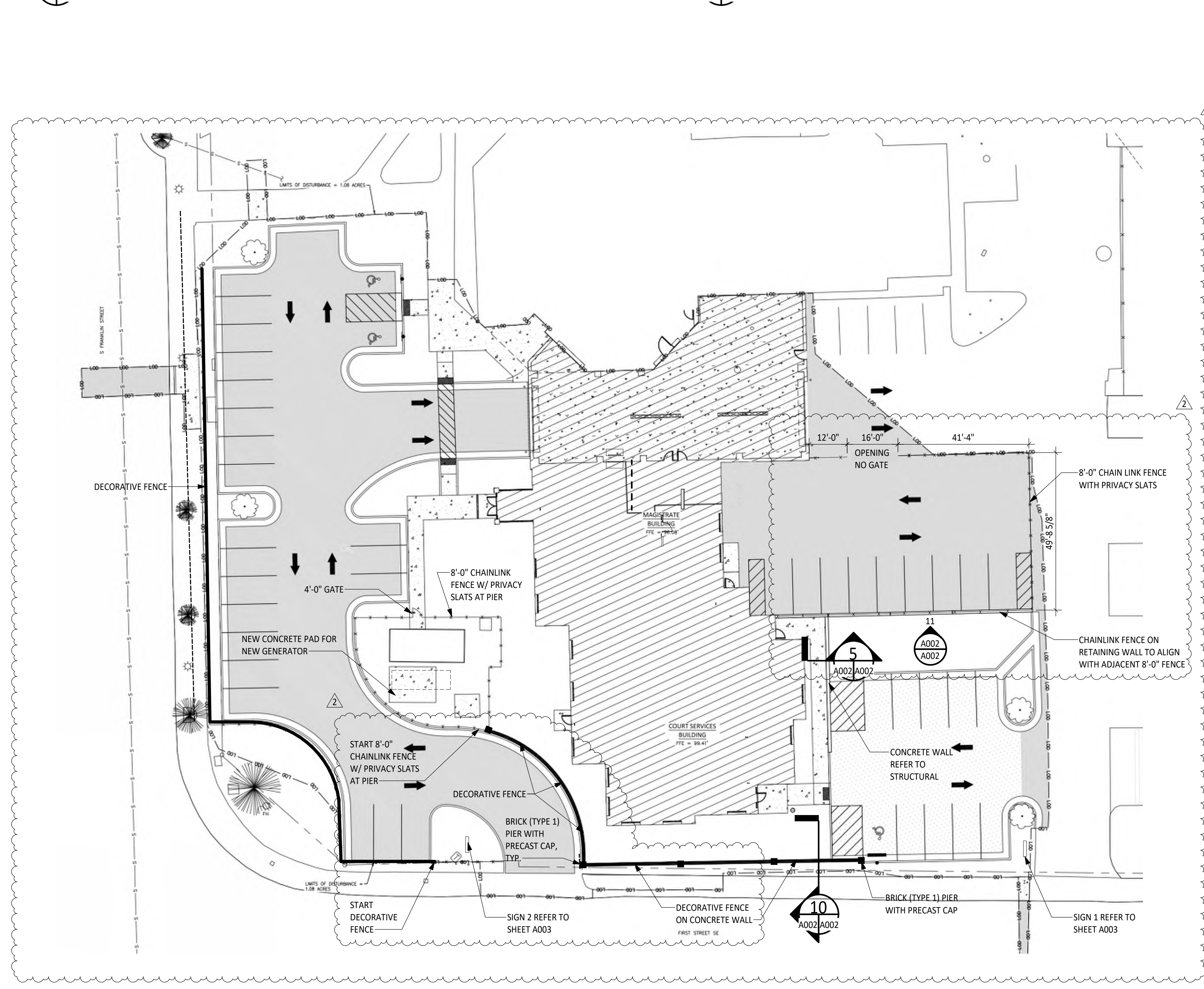
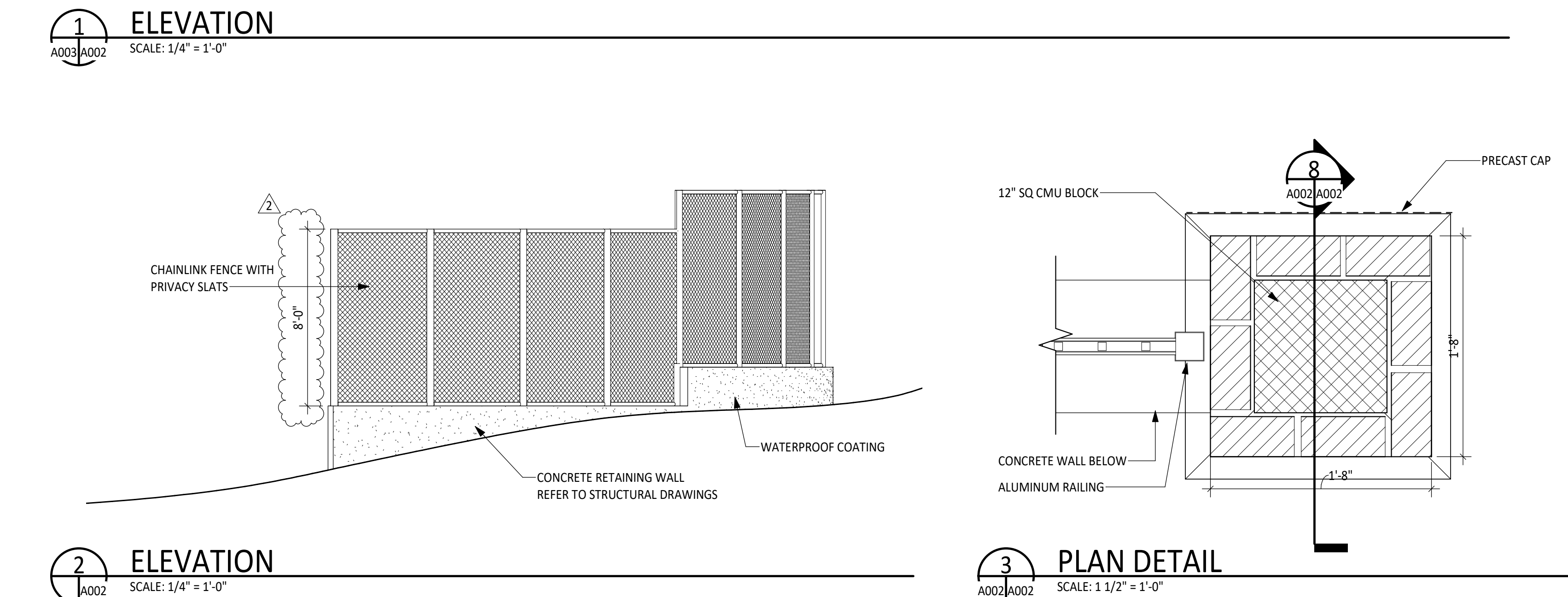
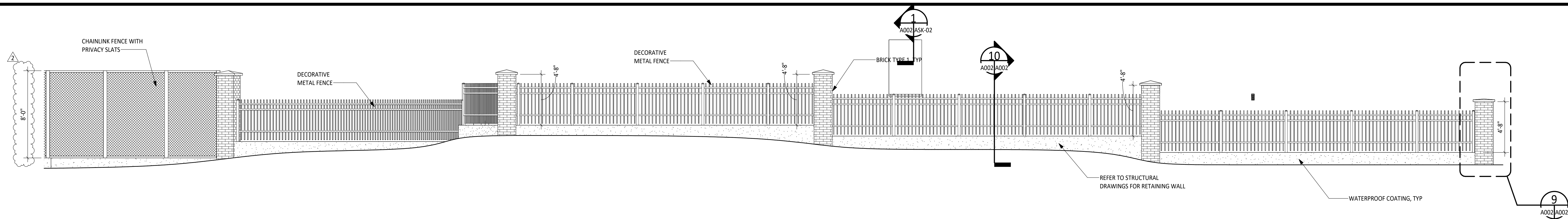
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Date	10/11/2023

Project No.	16910
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Sheet No.

G003



CONSTRUCTION NOTES:

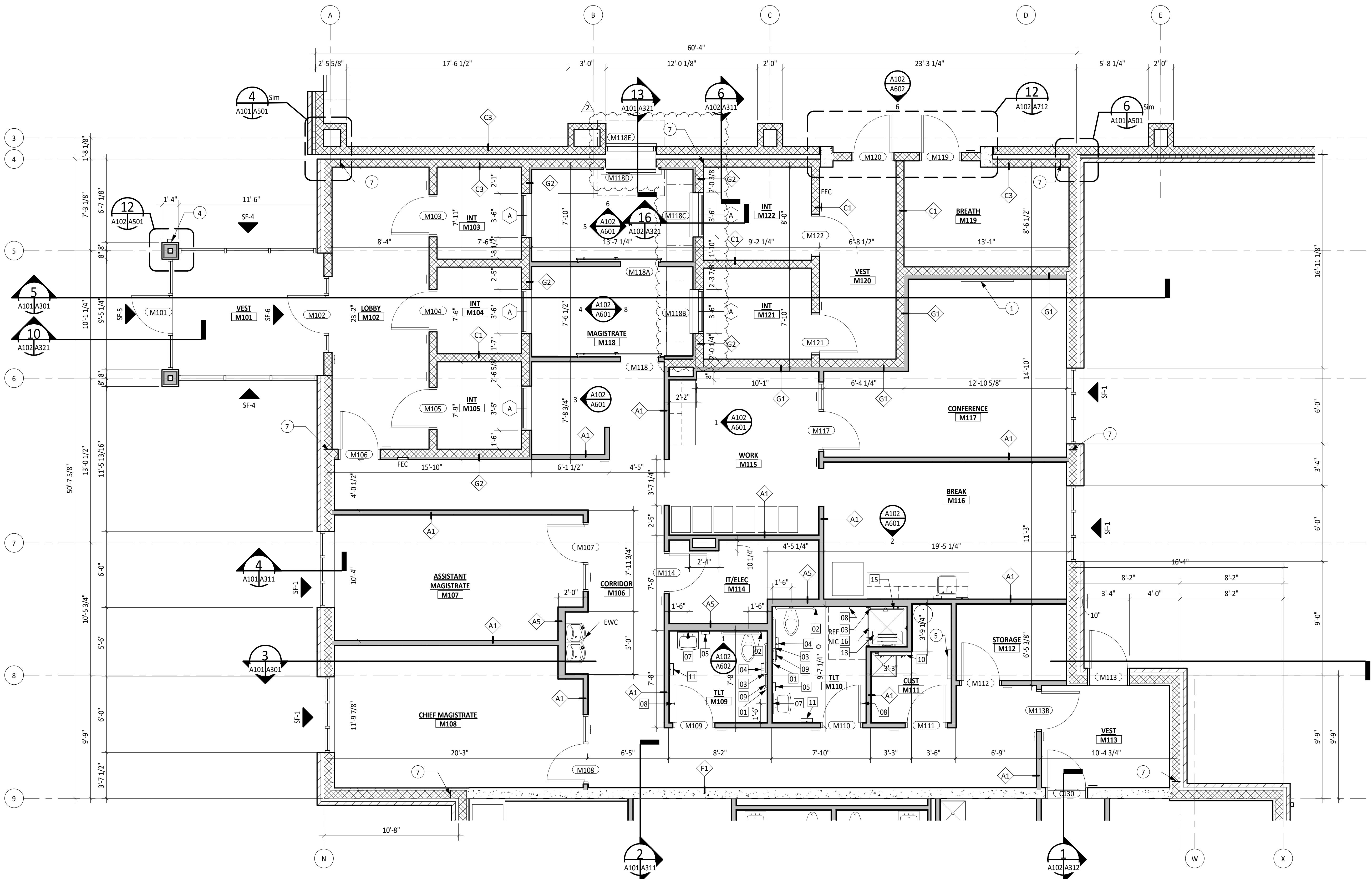
- OCCURS WHERE (7) ARE INDICATED ON DRAWINGS.
1. MONITOR BY OWNER. PROVIDE BLOCKING AS REQUIRED. COORDINATE WITH OWNER SIZE AND LOCATION.
 2. PASS THRU WINDOW. REFER TO ELEVATIONS FOR DETAILS.
 3. CUBICLES BY OWNER.
 4. KNOX BOX, BY CONTRACTOR. COORDINATE EXACT LOCATION WITH LOCAL FIRE DEPARTMENT.
 5. LADDER TO ROOF HATCH, PROVIDE REQUIRED BLOCKING IN PARTITION.
 6. FUR OUT WALL FOR GAS PIPING.
 7. CMU CONTROL JOINT. REFER TO A001 FOR CONTROL JOINT DETAILS.

GENERAL TLT ACCESSORY NOTES:

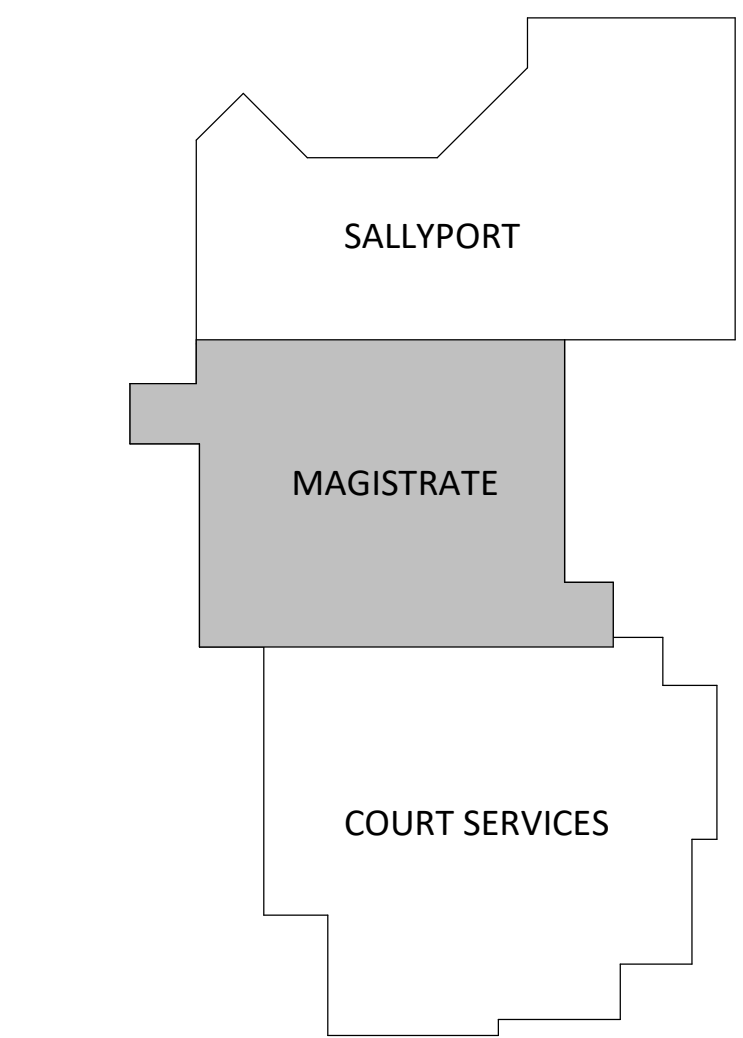
1. TOILET ACCESSORY ITEMS ARE INDICATED ON DRAWINGS BY (10).
2. REFER TO CASEWORK ELEVATIONS ON SHEET A601 FOR ADDITIONAL TOILET ACCESSORIES REQUIRED AS PART OF WORK.
3. GRAB BARS AND ACCESSORIES SHALL BE MOUNTED IN ACCORDANCE WITH ICC/ANSI 117.1.
4. REFER TO SPEC SECTION 102800 - "TOILET, BATH, AND LAUNDRY ACCESSORIES" FOR ACCESSORY TECHNICAL REQUIREMENTS AND DESCRIPTION.
5. PROVIDE UNDER LAVATORY PROTECTIVE PIPE COVER AT EACH WALL HUNG LAVATORY.
6. ACTUAL DIMENSIONS MAY VARY WITH APPROVED MANUFACTURER. COORDINATE ALL REVISIONS AS REQUIRED.

TOILET ACCESSORY LEGEND		
DESCRIPTION	NUMBER	REMARKS
42" HORIZONTAL GRAB BAR	01	CPCI
36" HORIZONTAL GRAB BAR	02	CPCI
18" VERTICAL GRAB BAR	03	CPCI
TOILET TISSUE DISPENSER	04	OPCI
SOAP DISPENSER	05	OPCI
18" x 36" FRAMED MIRROR UNIT	07	OPCI
COAT/ROBE HOOK	08	CPCI
SANITARY NAPKIN DISPOSAL UNIT	09	CPCI
MOP/BROOM HOLDER	10	CPCI
PAPER TOWEL DISPENSER	11	OPCI
SHOWER SEAT	13	CPCI
BABY CHANGING STATION	14	CPCI
2"-10" x 1'-6" GRAB BAR	15	CPCI
SHOWER ROD & CURTAIN	16	CPCI

CPCI : CONTRACTOR PROVIDED CONTRACTOR INSTALLED
OPCI : OWNER PROVIDED CONTRACTOR INSTALLED



FLOOR PLAN - MAGISTRATE
1/4" = 1'-0"
PLAN NORTH



KEY PLAN

0 2' 4' 8'
SCALE: 1/4" = 1'-0"



MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING

MAGISTRATE ENLARGED PLAN

No.	Date	ADDENDUM NO. 4	Purpose of Document Issue
2	12/01/2023		

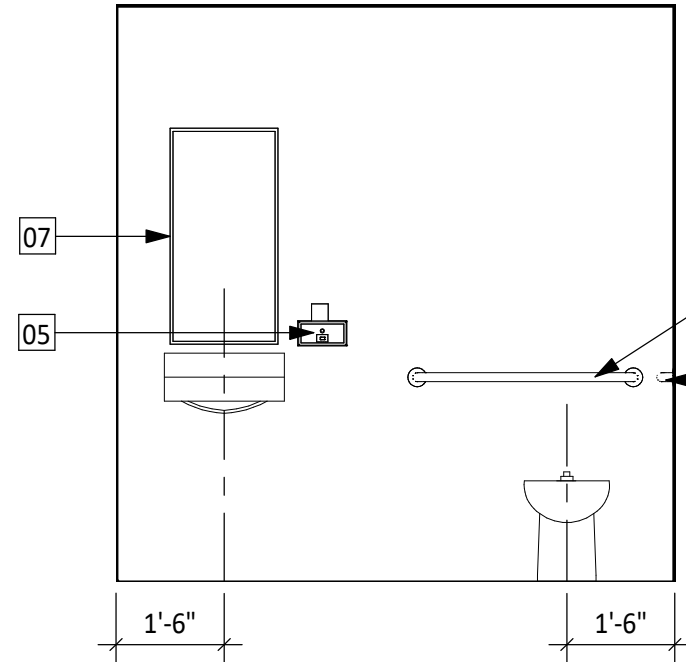
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Checked	EFS
Date	10/11/2023

Project No.	16910
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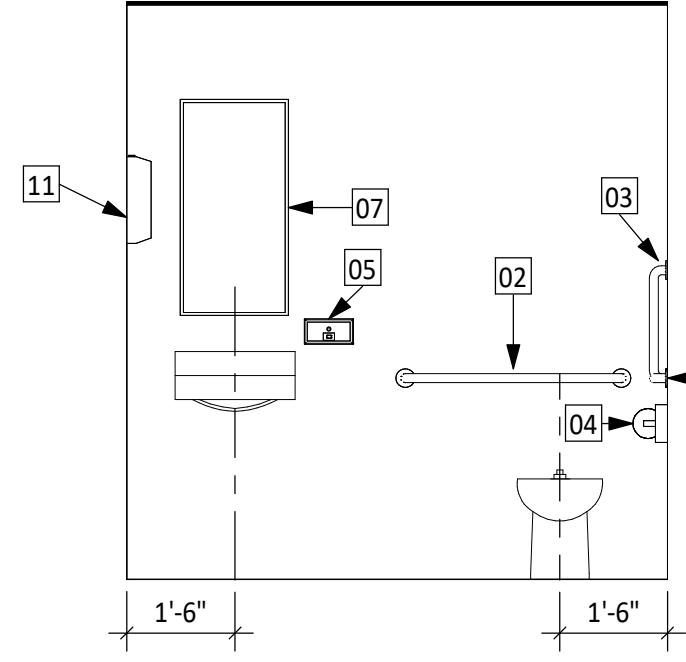


Sheet No.

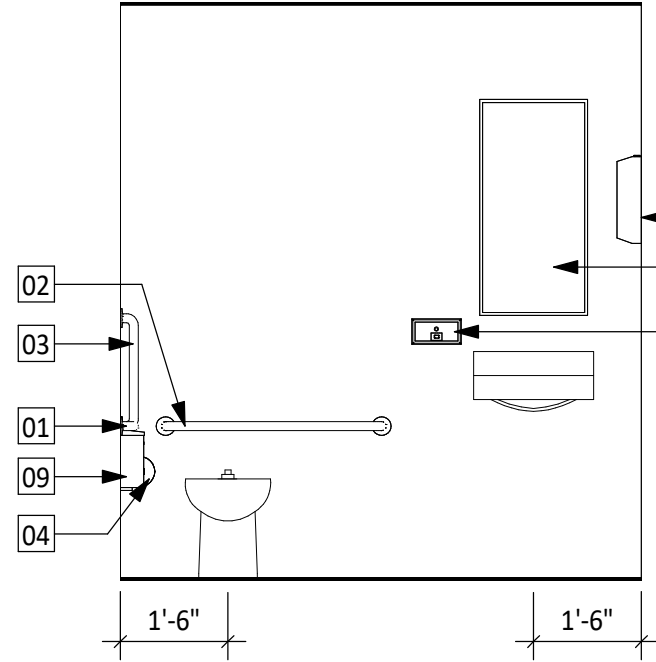
A102



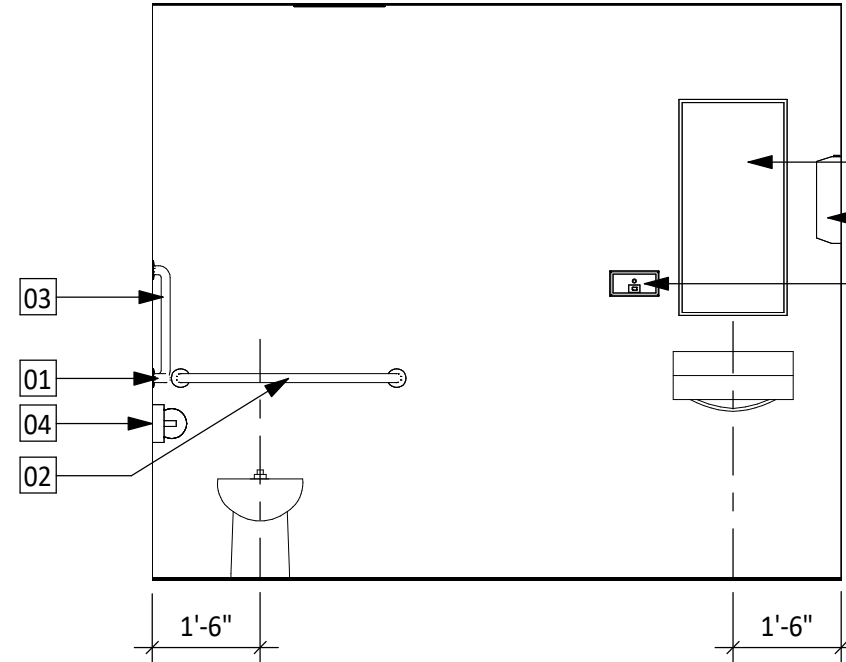
1
A102/A602
INTERIOR ELEVATION - M109
SCALE: 3/8" = 1'-0"



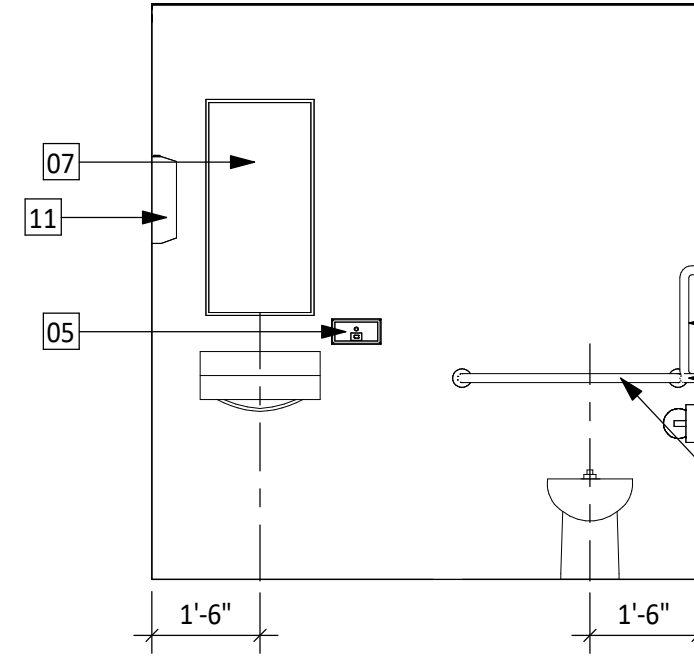
2
A103/A602
INTERIOR ELEVATION - C116
SCALE: 3/8" = 1'-0"



3
A103/A602
INTERIOR ELEVATION - C115
SCALE: 3/8" = 1'-0"

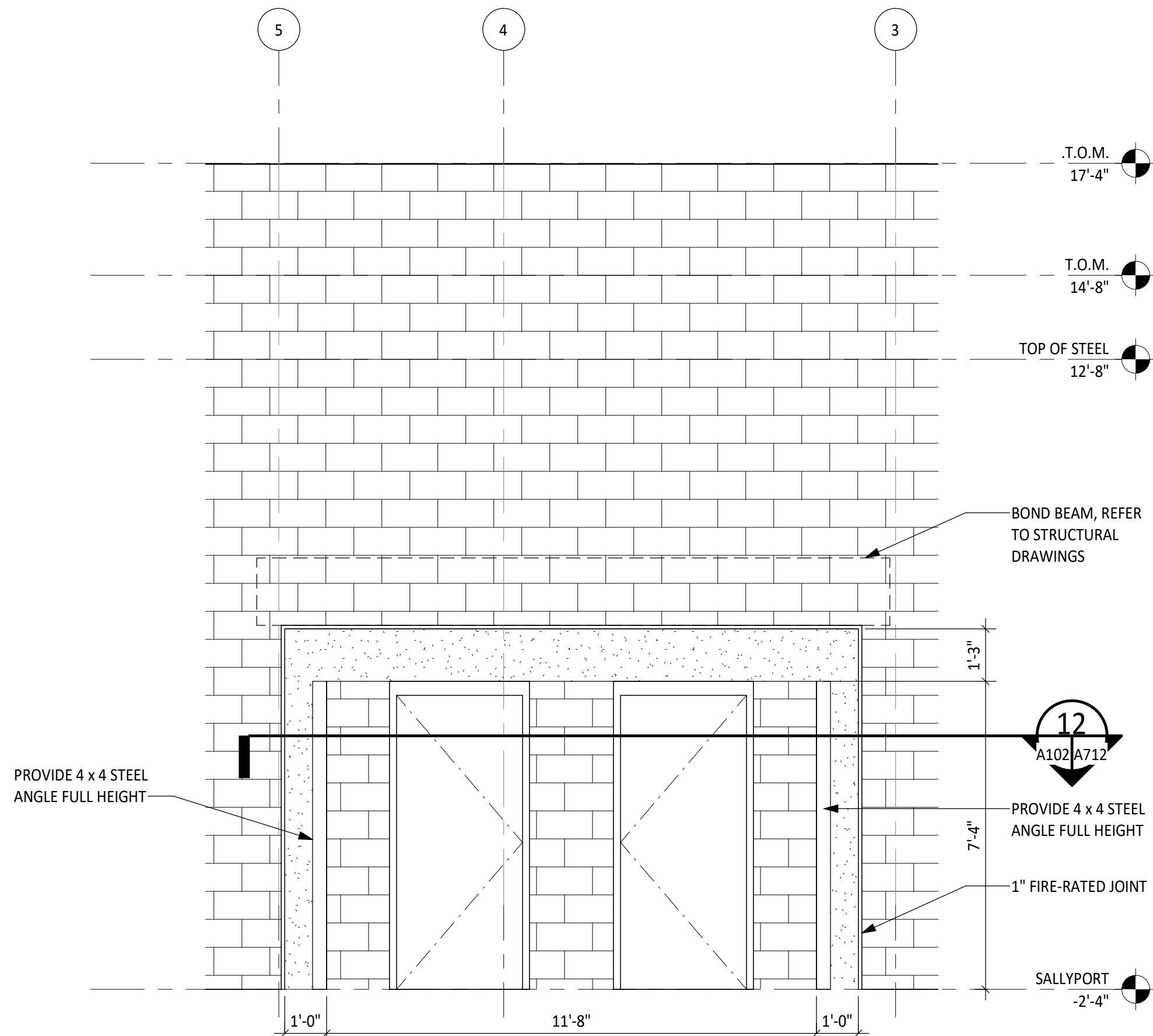


4
A103/A602
INTERIOR ELEVATION - C109
SCALE: 3/8" = 1'-0"



5
A103/A602
INTERIOR ELEVATION - C103
SCALE: 3/8" = 1'-0"

TOILET ACCESSORY LEGEND		
DESCRIPTION	NUMBER	REMARKS
42" HORIZONTAL GRAB BAR	01	CPCI
36" HORIZONTAL GRAB BAR	02	CPCI
18" VERTICAL GRAB BAR	03	CPCI
TOILET TISSUE DISPENSER	04	OPCI
SOAP DISPENSER	05	CPCI
18" x 36" FRAMED MIRROR UNIT	07	OPCI
COAT/ROBE HOOK	08	CPCI
SANITARY NAPKIN DISPOSAL UNIT	09	CPCI
MOP/BROOM HOLDER	10	CPCI
PAPER TOWEL DISPENSER	11	OPCI
SHOWER SEAT	13	CPCI
BABY CHANGING STATION	14	CPCI
2'-10" x 1'-6" GRAB BAR	15	CPCI
SHOWER ROD & CURTAIN	16	CPCI



6
A102/A602
FIREWALL PORTAL
SCALE: 3/8" = 1'-0"

0 6" 1' 2'
SCALE: 3/8" = 1'-0"



MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING

INTERIOR ELEVATIONS AND DETAILS

No. 2 Date 12/01/2023 Purpose of Document Issue ADDENDUM NO. 4

Designed	EFS
Drawn	TWM
Checked	EFS
Date	10/11/2023

Project No. 16910



Sheet No.

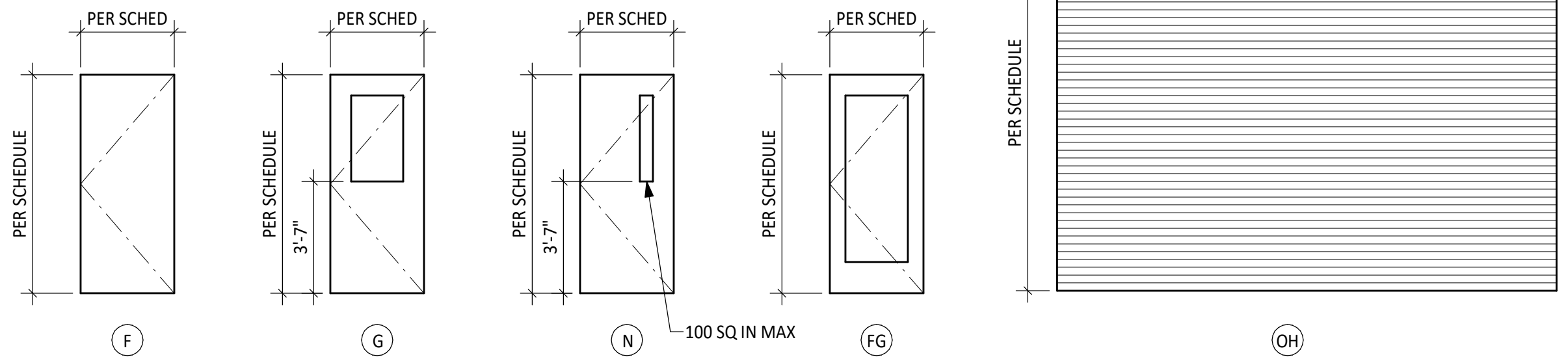
A602

DOOR SCHEDULE															
MARK	OPENING SIZE			MATERIAL	THICKNESS	TYPE	DOOR		GLAZING	HDW SET NO	FRAME		DETAILS		REMARKS
	NO OF LEAFS	WIDTH	HEIGHT				RATING (MIN)	LOUVER			TYPE	MATERIAL	HEAD	JAMB	
C101	1	3'-0"	7'-0"	ALUM	1 3/4"	FG			IG-2	2	SF-3	ALUM		1/2AS01	
C102	1	3'-0"	7'-0"	ALUM	1 3/4"	FG			G-1	3	SF-3	ALUM	H2	J2	
C103	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	13	HM-1	HM	H1	J1	
C104	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	14	HM-1	HM	H1	J1	
C105	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	14	HM-1	HM	H3	J3	
C106	1	3'-0"	7'-0"	WD	1 3/4"	G			G-1	9	HM-1	HM	H1	J1	
C107	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	5	HM-1	HM	H3	J3	
C108	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	9	HM-3	HM	H1	J1	
C109	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	13	HM-1	HM	H1	J1	
C110	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	9	HM-3	HM	H1	J1	
C110A	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	4	HM-2	HM	H4	J4	INSULATED
C111	1	3'-0"	7'-0"	HM	1 3/4"	F			N/A	5	HM-1	HM	H1	J1	
C111A	1	3'-0"	7'-0"	WD	1 3/4"	G			G-1	8	HM-1	HM	H1	J1	
C111B	1	3'-0"	7'-0"	WD	1 3/4"	G			G-1	8	HM-1	HM	H1	J1	
C112	1	3'-0"	7'-0"	WD	1 3/4"	G			G-1	9	HM-1	HM	H1	J1	
C113	1	3'-0"	7'-0"	WD	1 3/4"	G			G-1	5	HM-1	HM	H1	J1	
C113A	1	3'-0"	7'-0"	WD	1 3/4"	G			G-1	4	HM-2	HM	H4	J4	INSULATED
C114	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	7	HM-1	HM	H1	J1	
C115	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	13	HM-1	HM	H1	J1	
C116	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	13	HM-1	HM	H1	J1	
C117	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	11	HM-1	HM	H1	J1	
C119	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	11	HM-1	HM	H1	J1	
C120	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	8	HM-3	HM	H1	J1	
C121	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	8	HM-3	HM	H1	J1	
C122	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	8	HM-3	HM	H1	J1	
C123	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	8	HM-4	HM	H1	J1	
C124	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	11	HM-1	HM	H1	J1	
C125	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	8	HM-4	HM	H1	J1	
C126	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	8	HM-3	HM	H1	J1	
C127	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	8	HM-3	HM	H1	J1	
C128	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	8	HM-3	HM	H1	J1	
C129	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	8	HM-3	HM	H1	J1	
C130	1	3'-0"	7'-0"	WD	1 3/4"	N			G-1	5	HM-1	HM	H5	J5	
M101	1	3'-0"	7'-0"	ALUM	1 3/4"	FG			IG-2	1	SF-5	ALUM	---	---	
M102	1	3'-0"	7'-0"	ALUM	1 3/4"	FG			G-1	12	SF-3	ALUM	H2	J2	
M103	1	3'-0"	7'-0"	WD	1 3/4"	F				10	HM-2	HM	H6	J6	
M104	1	3'-0"	7'-0"	WD	1 3/4"	F				10	HM-2	HM	H6	J6	
M105	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	10	HM-2	HM	H6	J6	
M106	1	3'-0"	7'-0"	WD	1 3/4"	F				5	HM-2	HM	H6	J6	
M107	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	8	HM-3	HM	H1	J1	
M108	1	3'-0"	7'-0"	WD	1 3/4"	F				8	HM-3	HM	J1	J1	
M109	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	13	HM-1	HM	H1	J1	
M110	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	13	HM-1	HM	H1	J1	
M111	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	7	HM-1	HM	H1	J1	
M112	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	11	HM-1	HM	H1	J1	
M113	1	3'-0"	7'-0"	HM	1 3/4"	N		90		2	HM-2	HM	H4	J4	
M113B	1	3'-0"	7'-0"	WD	1 3/4"	N		90		5	HM-1	HM	H1	J1	
M114	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	11	HM-1	HM	H1	J1	
M117	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	9	HM-3	HM	H1	J1	
M118	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	15	N/A	HM	H7	J7	BARN DOOR
M118A	1	3'-0"	7'-0"	WD	1 3/4"	F			N/A	15	N/A	HM	H7	J7	BARN DOOR
M118B		3'-6"	4'-6"	STL	2"	OH			N/A	16	---	STL	16A321	13A501 SIM	
M118C		3'-6"	4'-6"	STL	2"	OH			N/A	16	---	STL	16A321	13A501 SIM	
M118D		4'-0"	5'-0"	STL	2"	OH			N/A	16		STL	13A321	13A501 SIM	
M118E		4'-0"	5'-0"	STL	2"	OH			N/A	16		STL	13A321	13A501 SIM	
M119	1	3'-0"	7'-0"	HM	1 3/4"	F			N/A	6	HM-1	HM	H6	J6	INSULATED
M120	1	3'-0"	7'-0"	HM	1 3/4"	F			N/A	12	HM-1	HM	H6	J6	INSULATED
M121	1	3'-0"	7'-0"	HM	1 3/4"	F			N/A	10	HM-1	HM	H6	J6	
M122	1	3'-0"	7'-0"	HM	1 3/4"	F			N/A	10	HM-1	HM	H6	J6	
S101	1	3'-0"	7'-0"	HM	1 3/4"	F			N/A	17	HM-2	HM	H4	J4	
S101A		20'-0"	12'-0"	STL	2"	OH			N/A	16	---	STL	9/A501	13/A501	INSULATED
S101B		20'-0"	12'-0"	STL	2"	OH			N/A	16	---	STL	9/A501	13/A501	INSULATED
S102	1	4'-0"	7'-0"	HM	1 3/4"	F			N/A	17	HM-2	HM	H4	J4	

DOOR SCHEDULE LEGEND	
A CLAD	ALUMINUM-CLAD WOOD
HM	HOLLOW METAL
GHM	GALVANIZED HOLLOW METAL
IG-1	1" INSULATED LOW-E GLASS
G-1	1/4" TEMPERED FLOAT GLASS
MANUF	PER MANUFACTURER
SF	ALUMINUM STOREFRONT
SHM	SECURITY HOLLOW METAL DOOR
STL	STEEL OVERHEAD COILING DOOR
WD	WOOD

GENERAL DOOR NOTES:

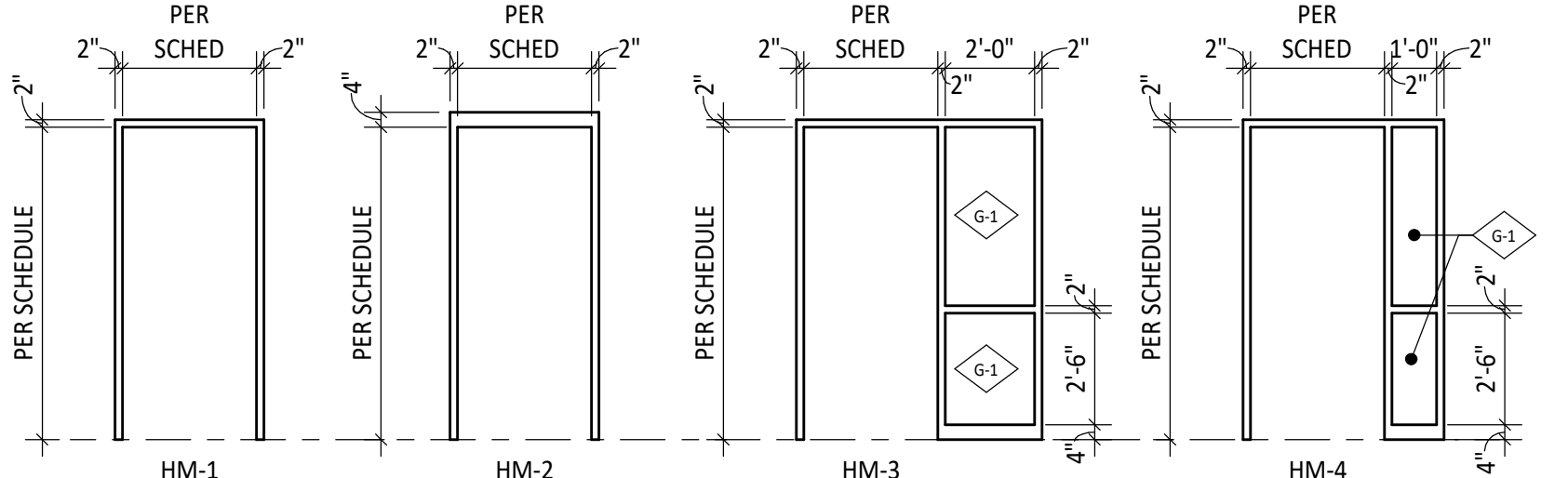
- PROVIDE CONTINUOUS BEAD OF SEALANT AT PERIMETER OF EACH SIDE OF OPENING FRAME. COORDINATE SEALANT TYPE WITH SEALANT SCHEDULED IN SPECIFICATIONS.
- PROVIDE DOORS WITH A 3/4" UNDERCUT (UON).
- INSTALL GLAZED OPENINGS WITH REMOVABLE GLAZING STOP ON SIDE OPPOSITE PUBLIC OCCUPIED AREAS UNLESS OTHERWISE INDICATED.
- REFER TO SPECIFICATION SECTION 087100 - "DOOR HARDWARE" FOR HARDWARE SETS.



NOTE: REFER TO DOOR SCHEDULE FOR DOOR MATERIAL REQUIREMENTS.

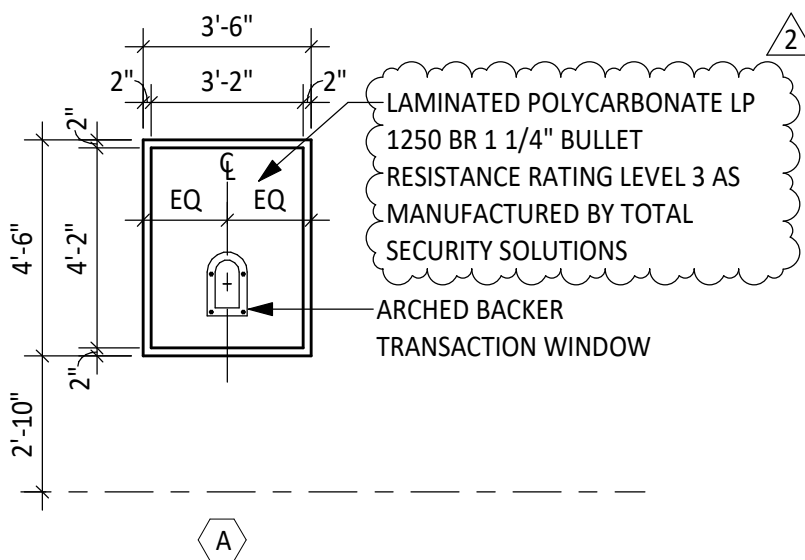
DOOR TYPES

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



FRAME TYPES

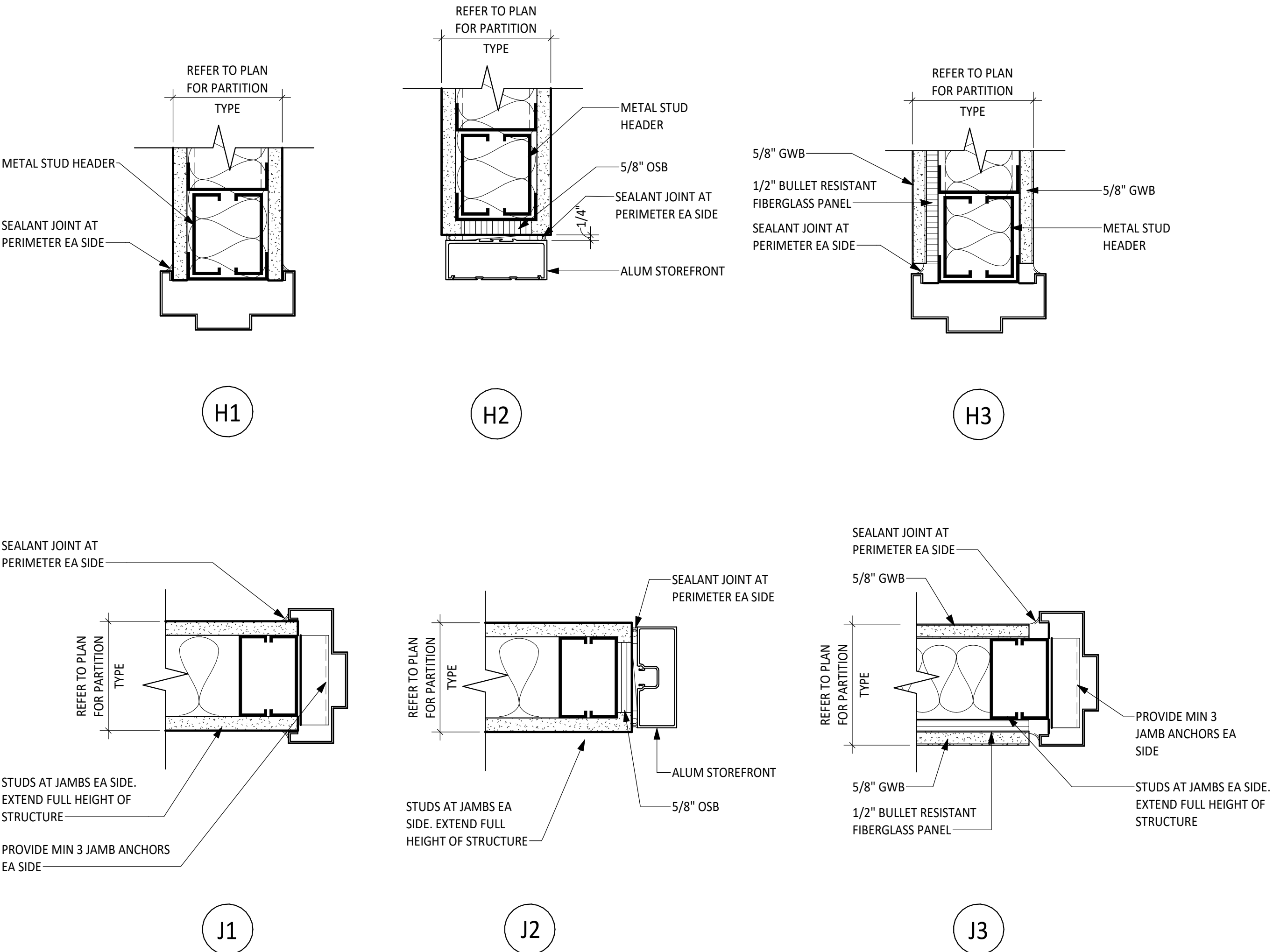
SCALE: 1/4" = 1'-0"



DOOR SCHEDULE REMARKS:

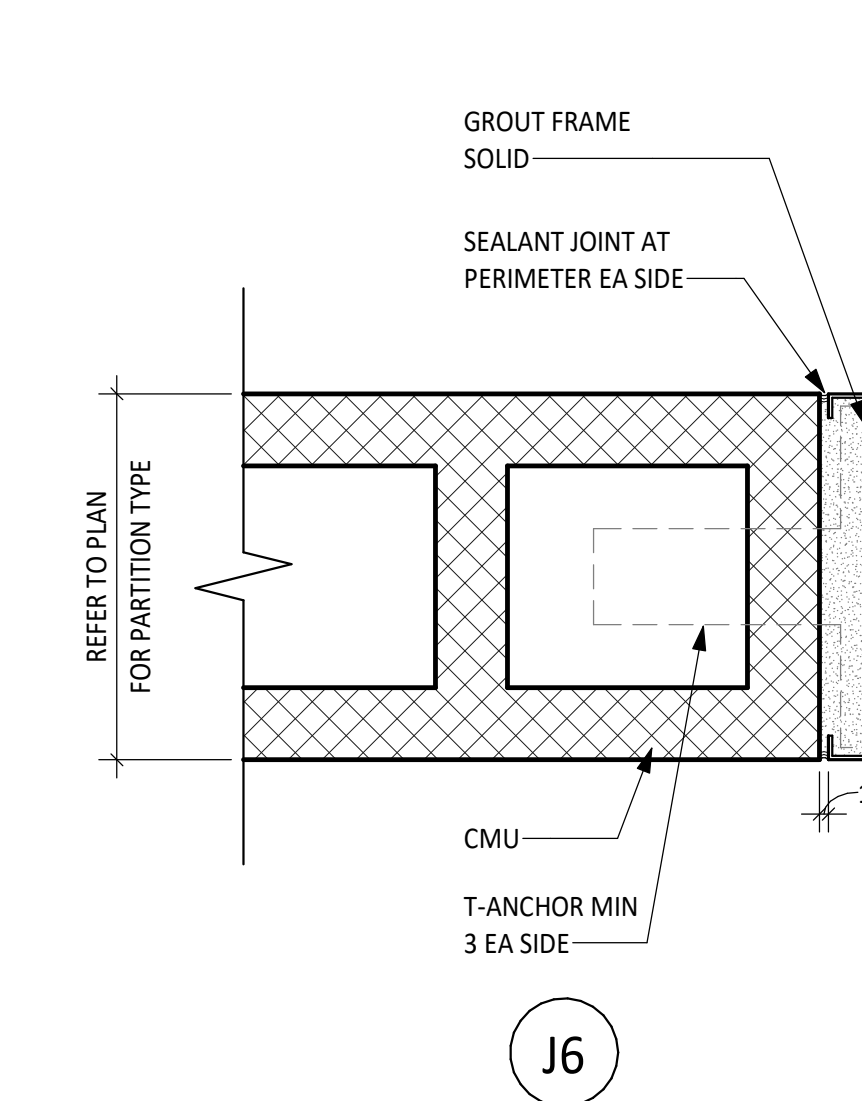
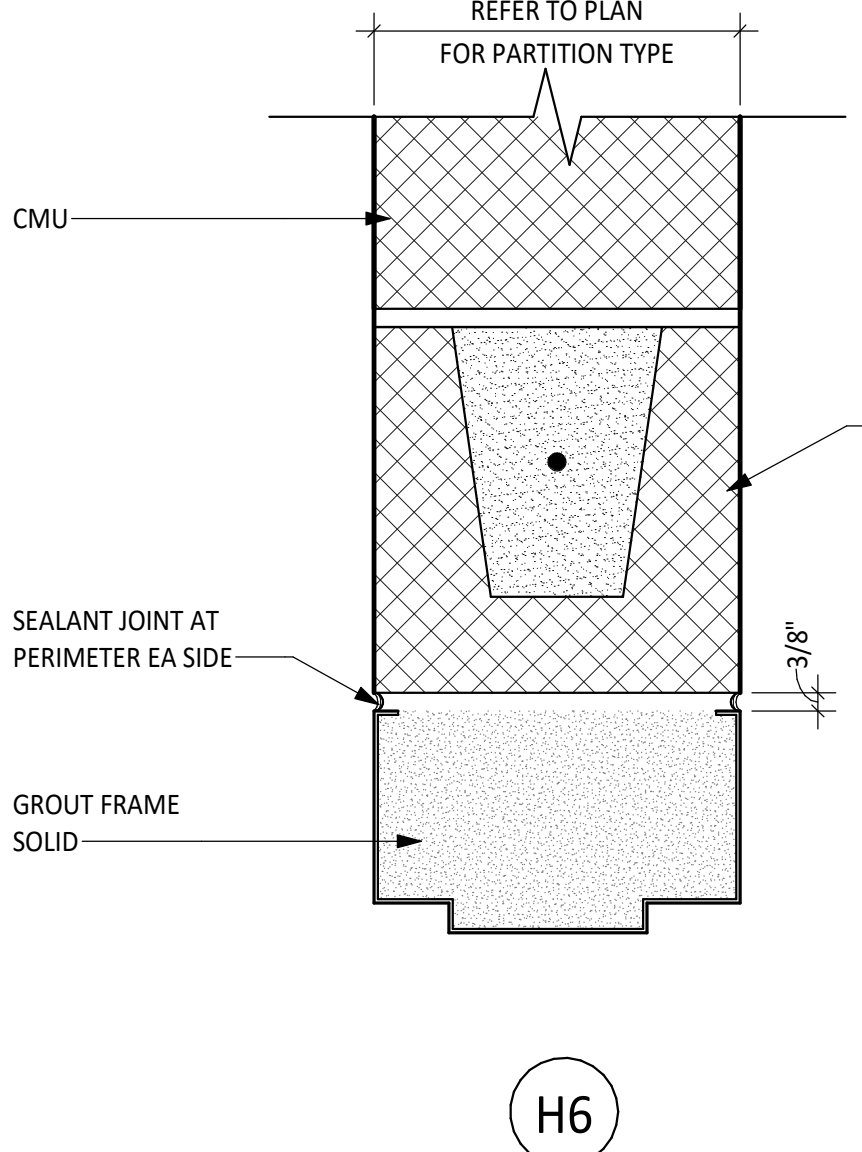
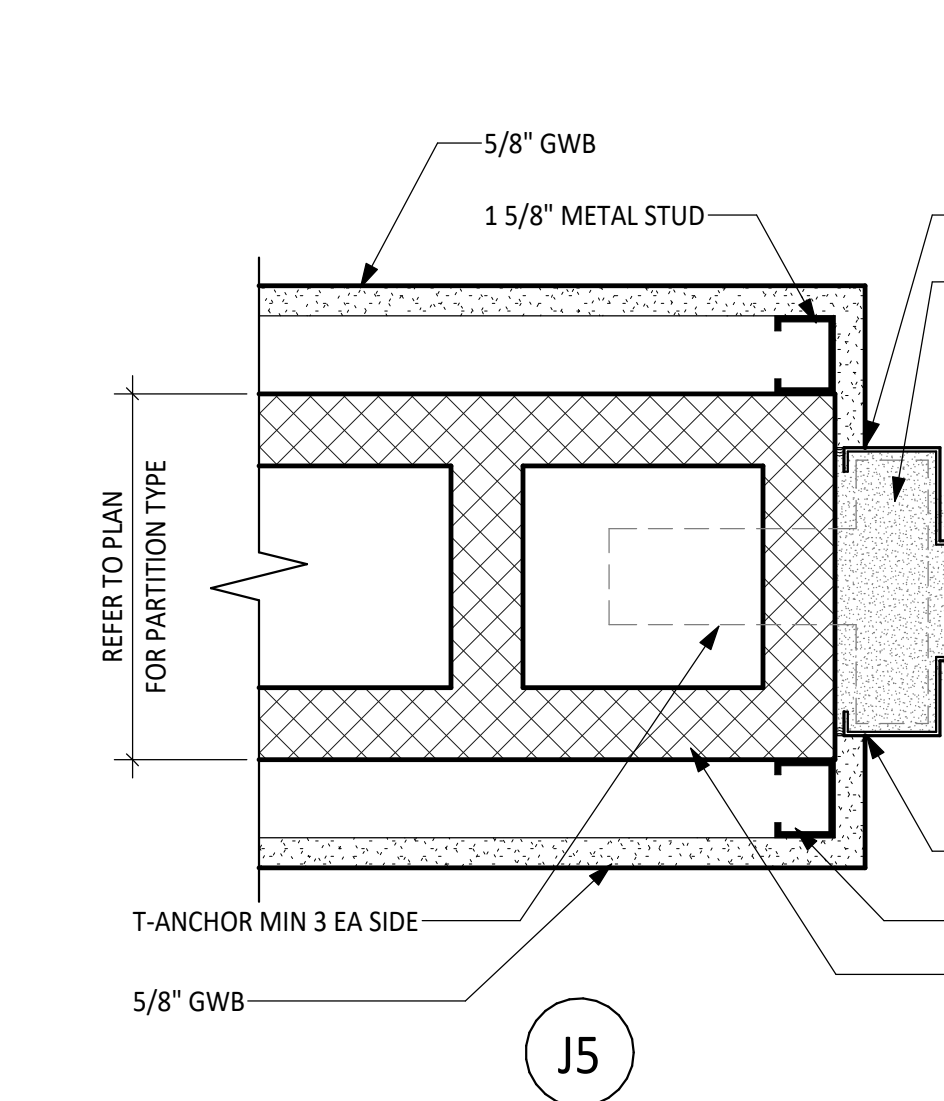
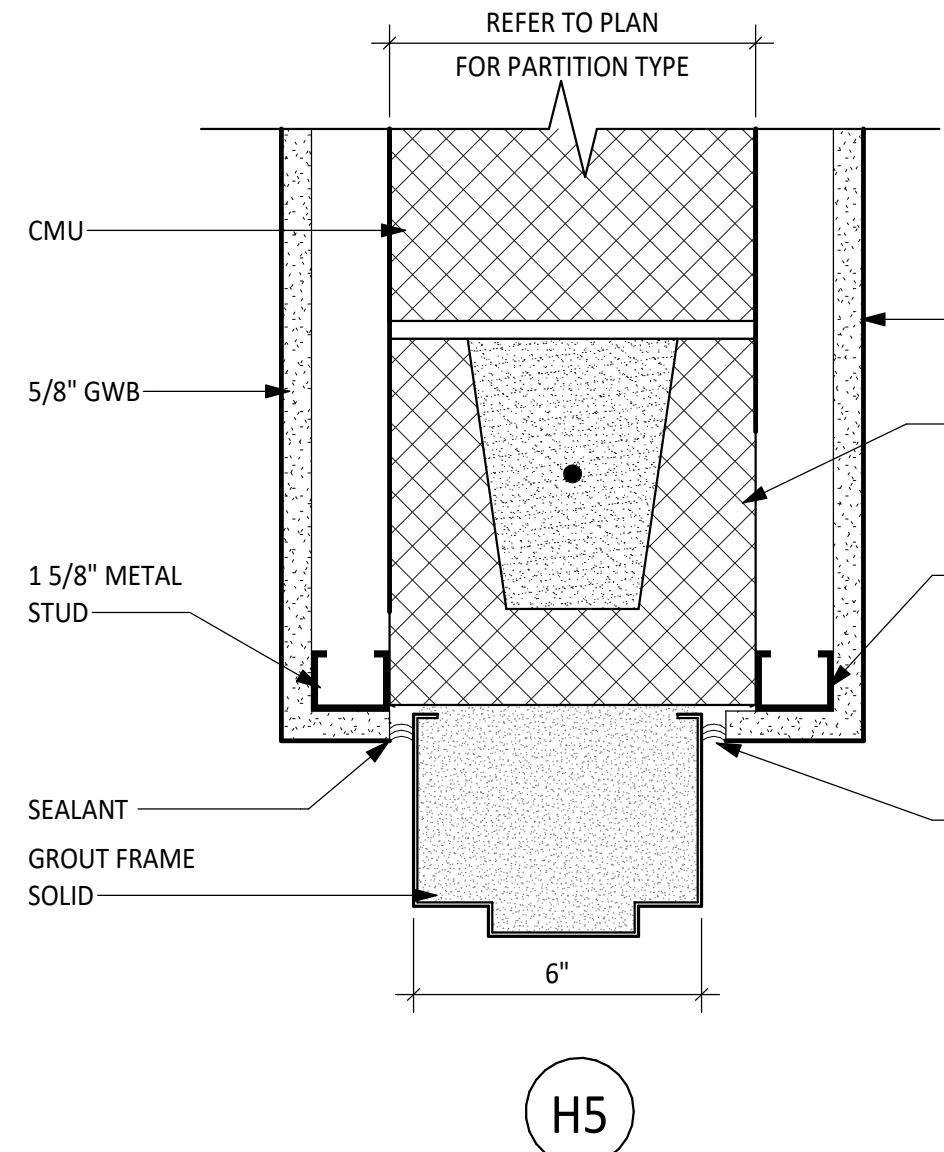
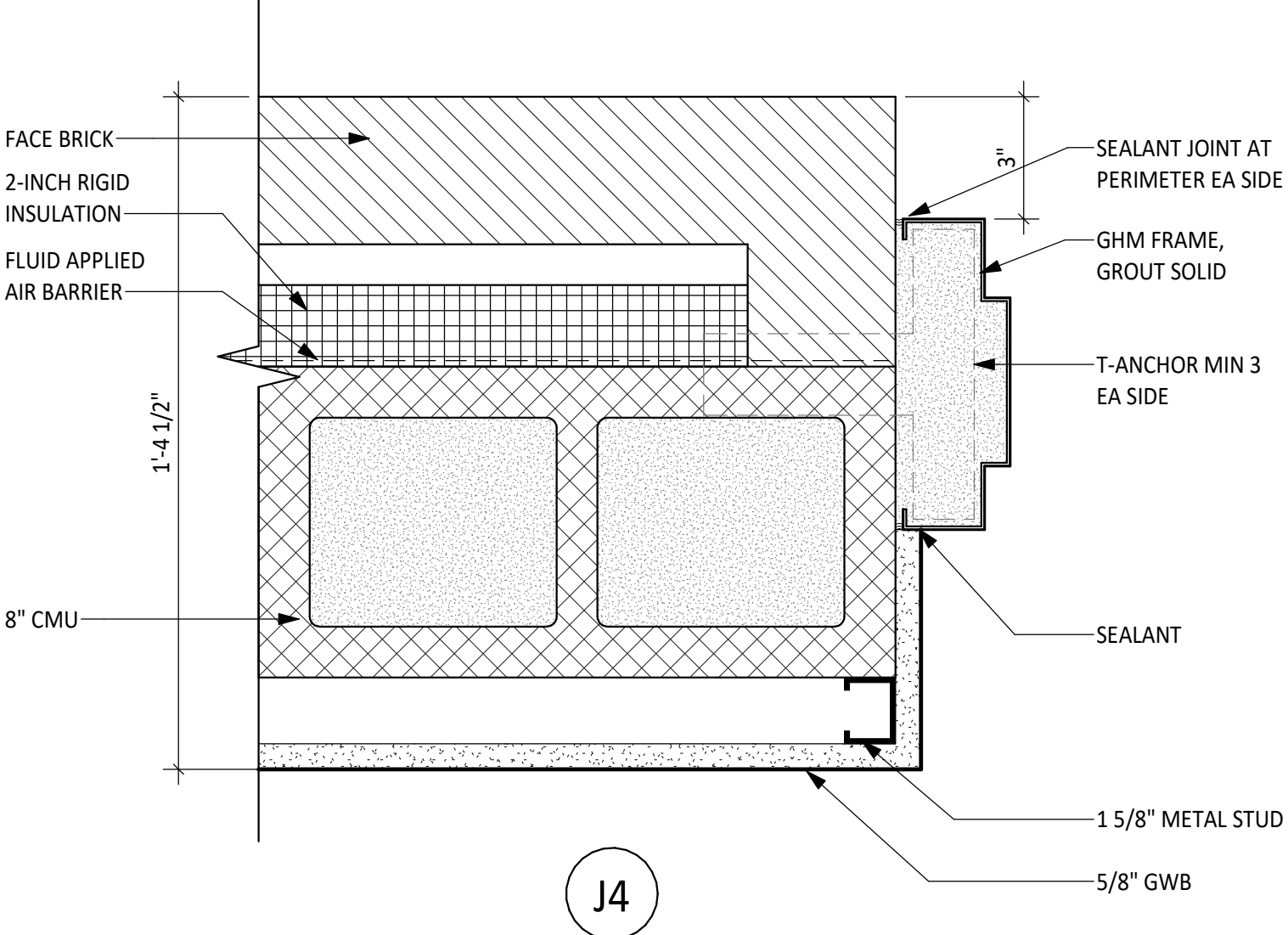
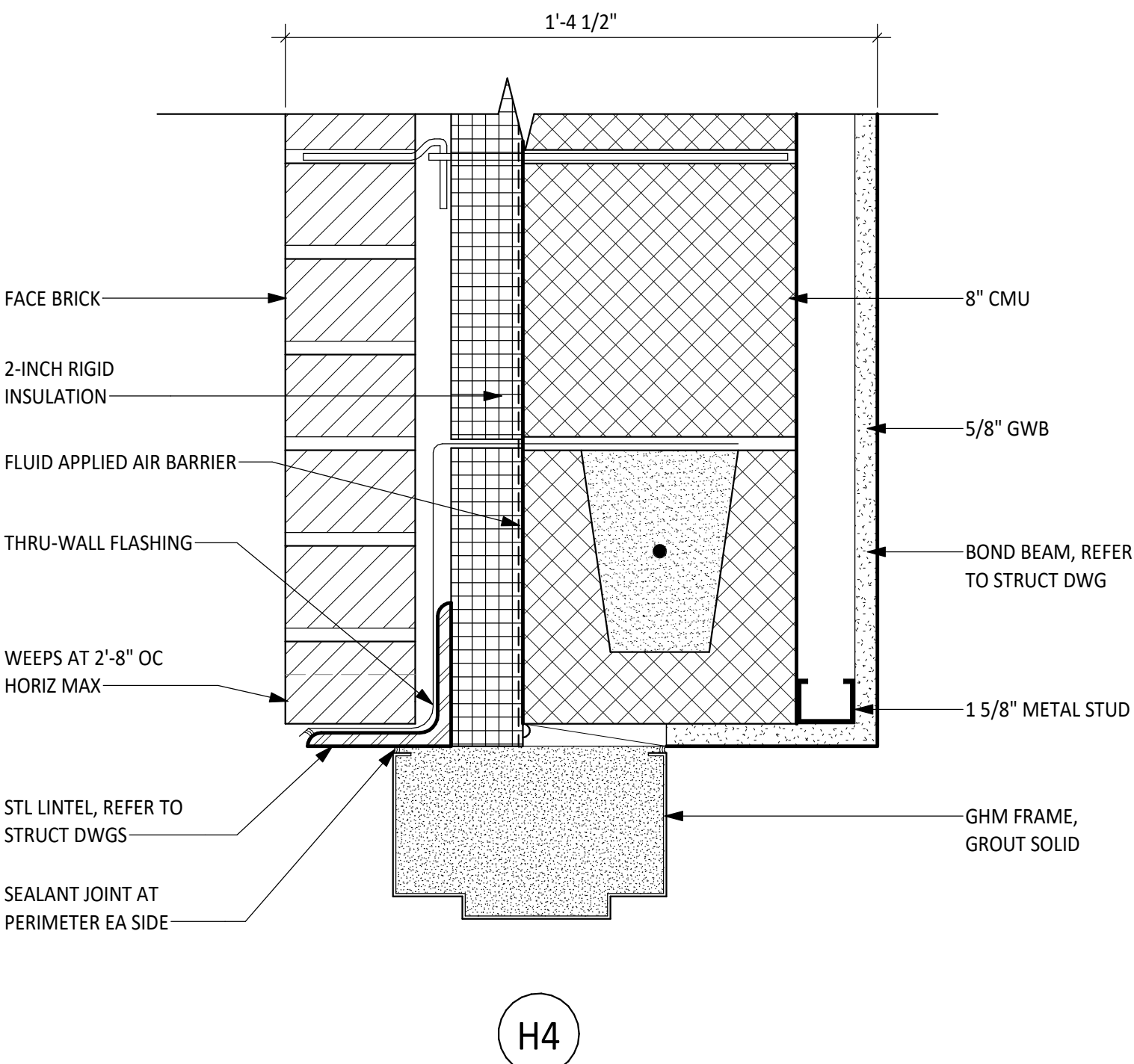
REFER TO DOOR SCHEDULE FOR REMARK LOCATIONS.

DOOR FINISH: VT INDUSTRIES ARCHITECTURAL WOOD DOORS, SPECIES: SELECT WHITE BIRCH, COLOR: SAVANNA, S418



HEAD & JAMB TYPES

SCALE: 3" = 1'-0"



0 2' 4' 8' 0 2' 4' 8'
SCALE: 3" = 1'-0" SCALE: 1/4" = 1'-0"



MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING

OPENING SCHEDULE

Drawn: 12/01/2023
Checked: 12/01/2023
Date: 12/01/2023

Designed: EFS
Drawn: TWMM
Checked: EFS
Date: 10/11/2023

Project No.

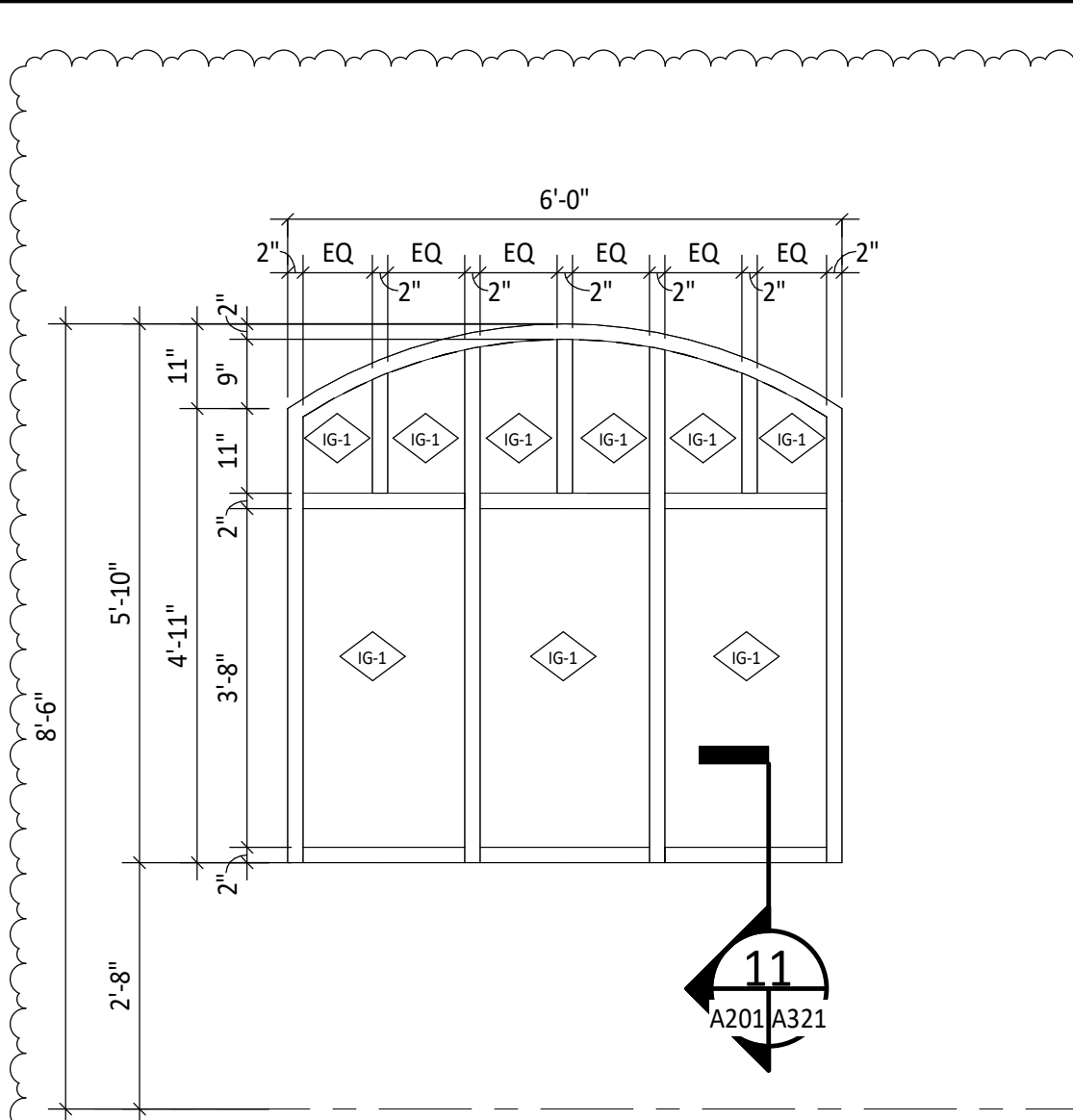
16910



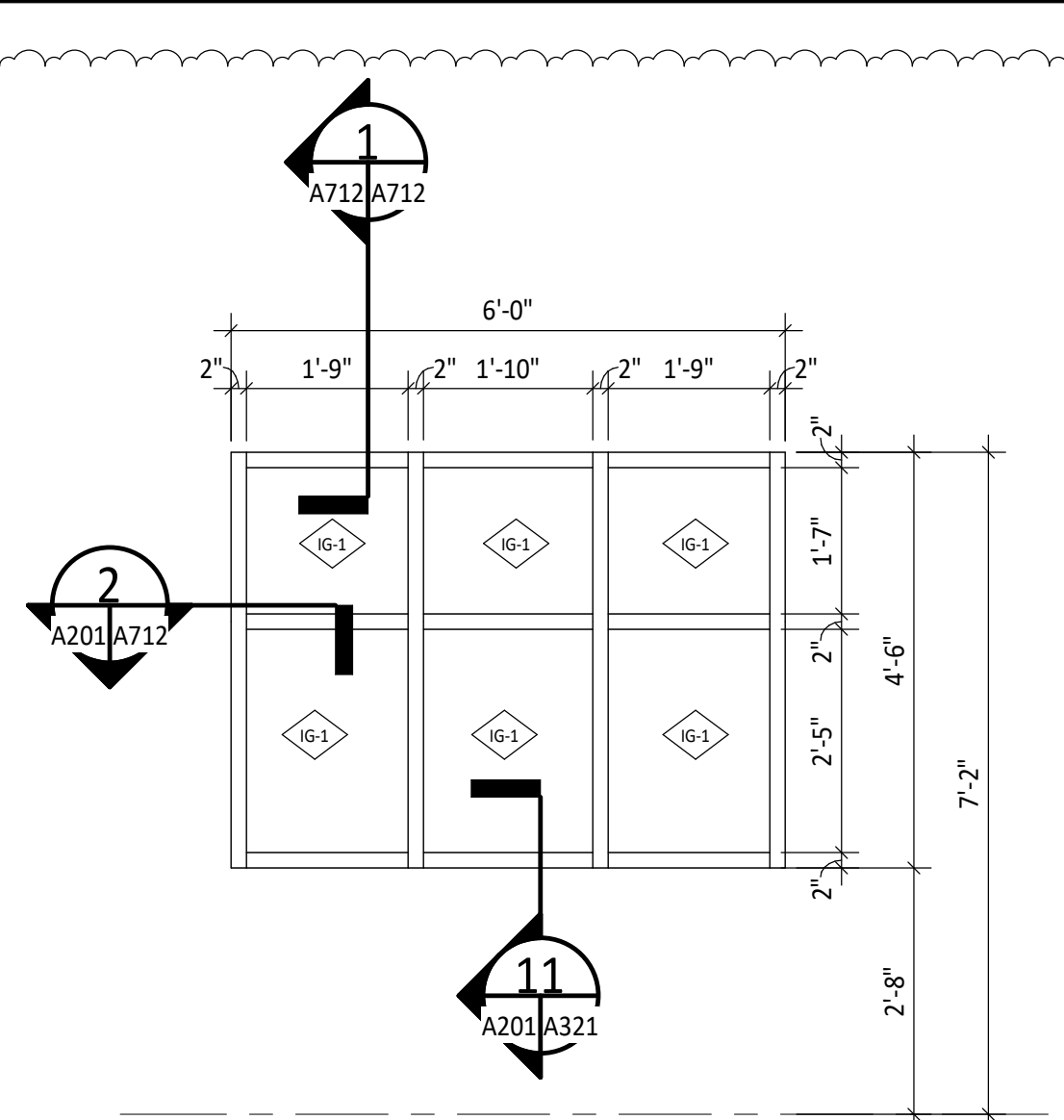
Sheet No.

A711

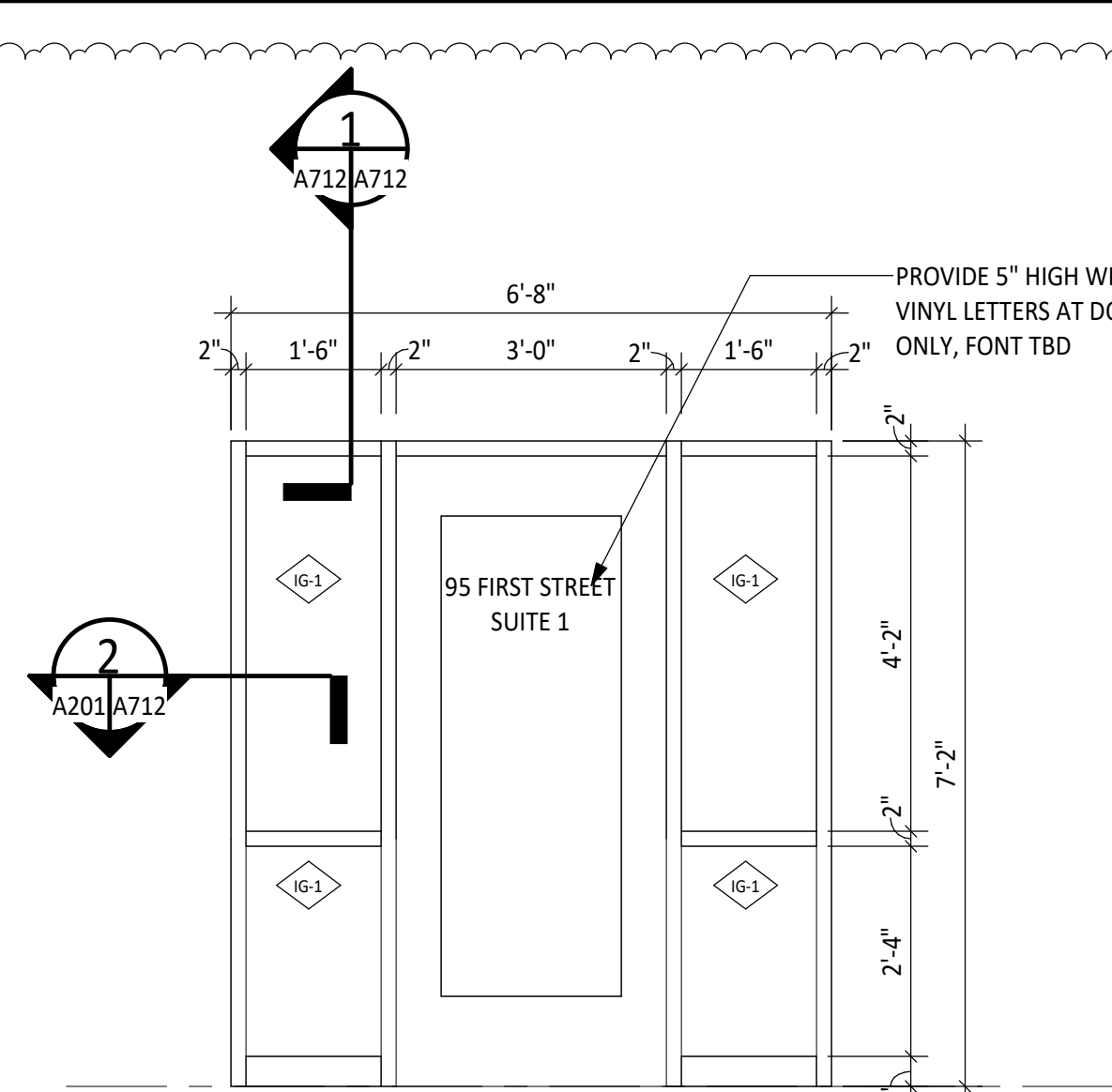
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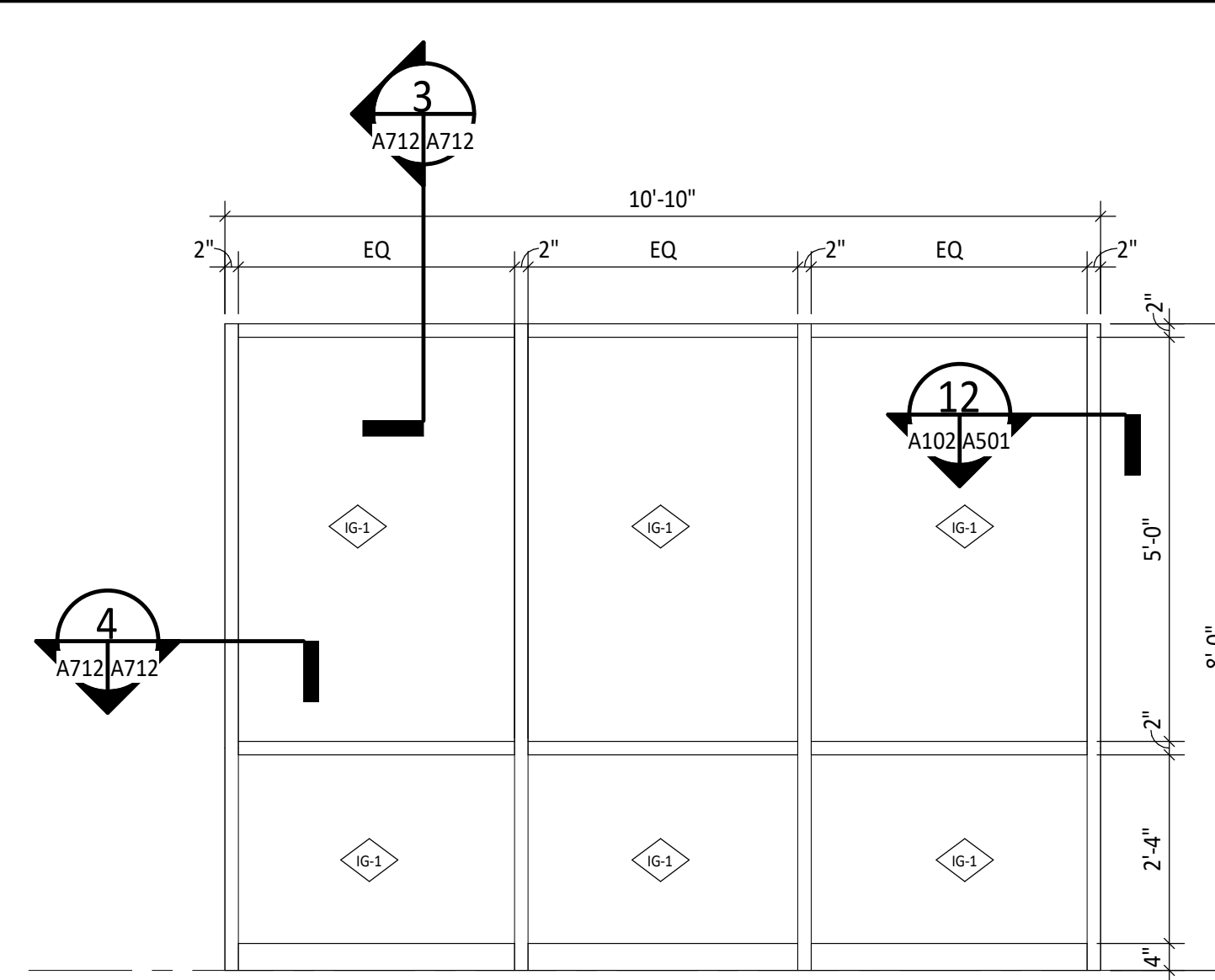
SF-1
SCALE: 1/2" = 1'-0"



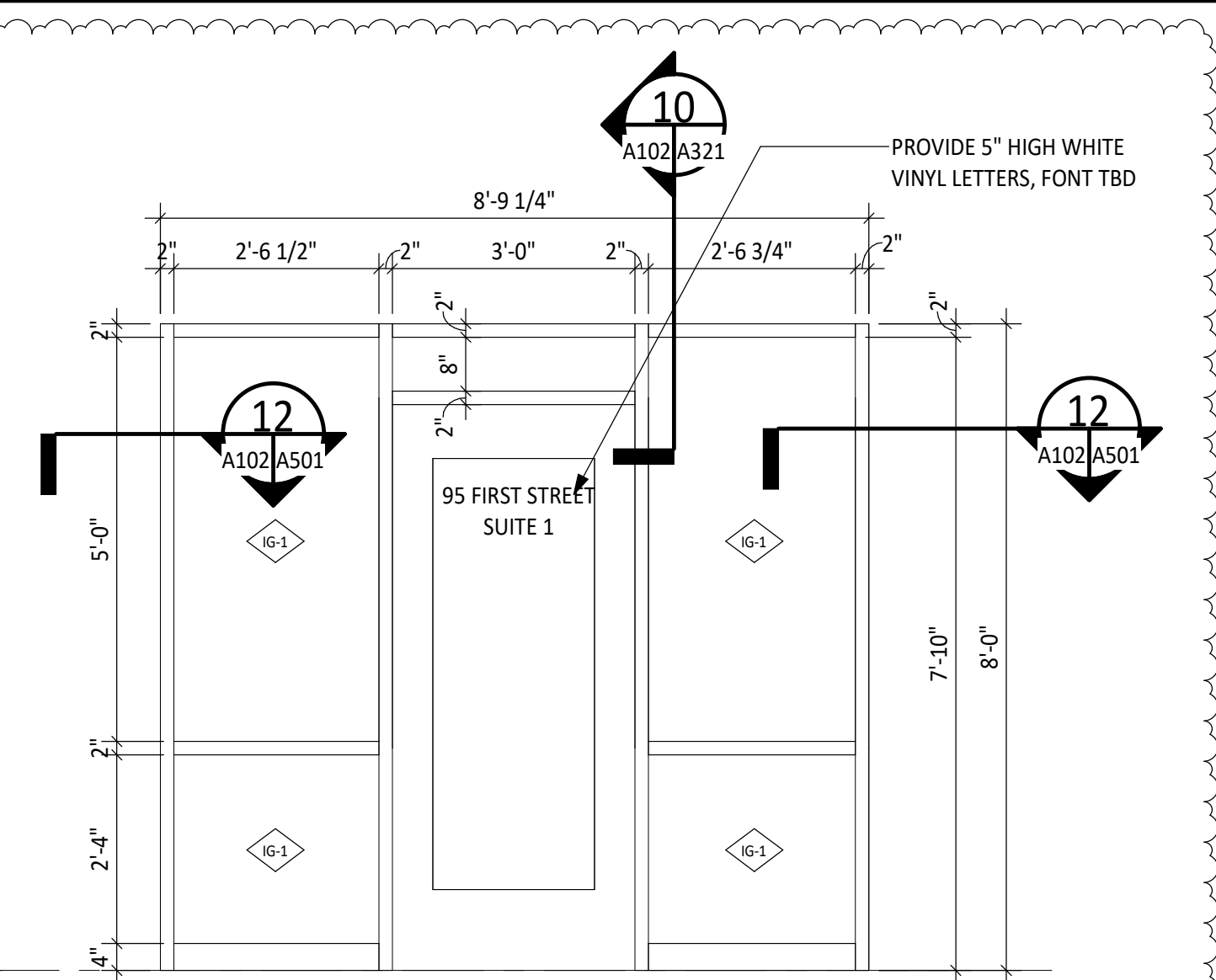
SF-2
SCALE: 1/2" = 1'-0"



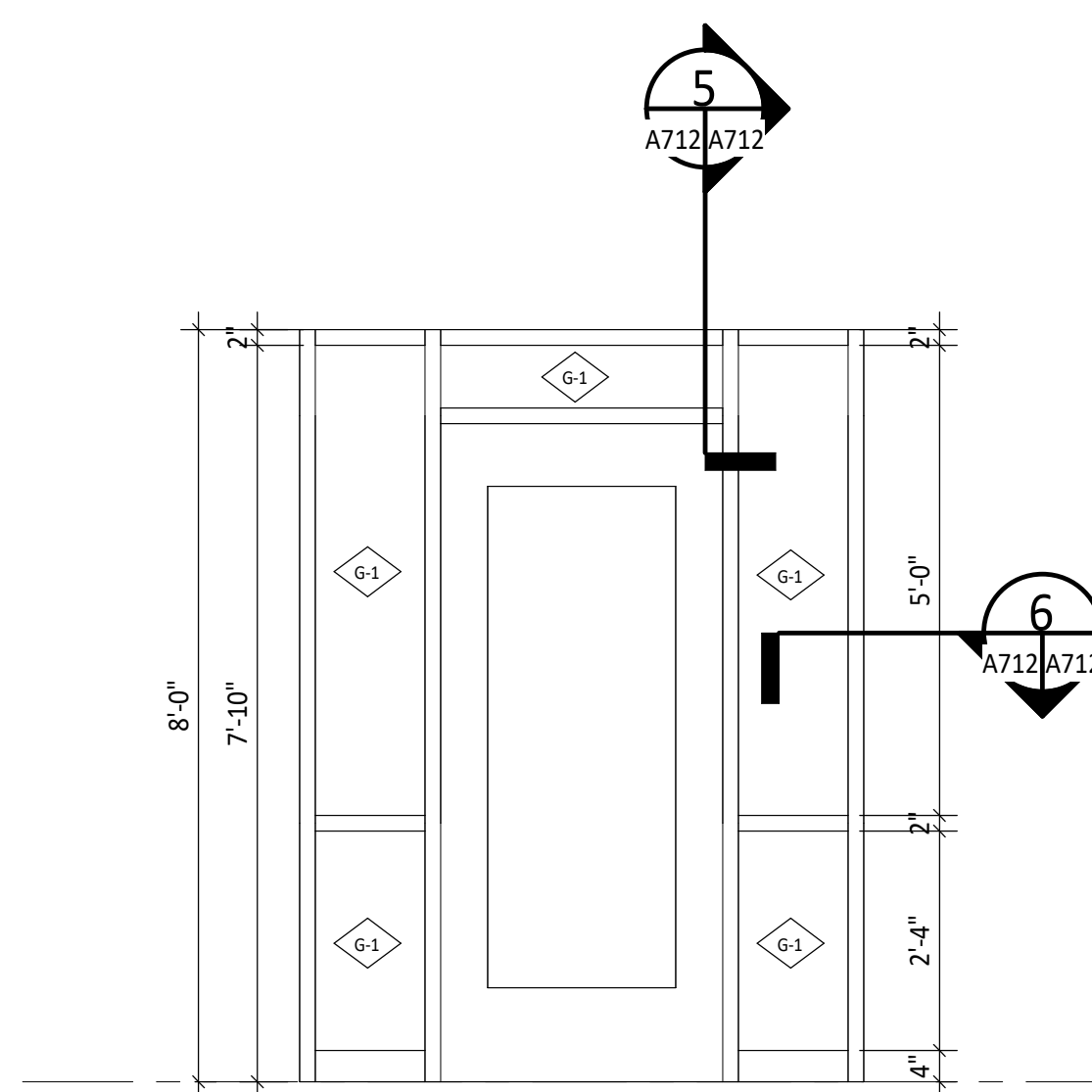
SF-3
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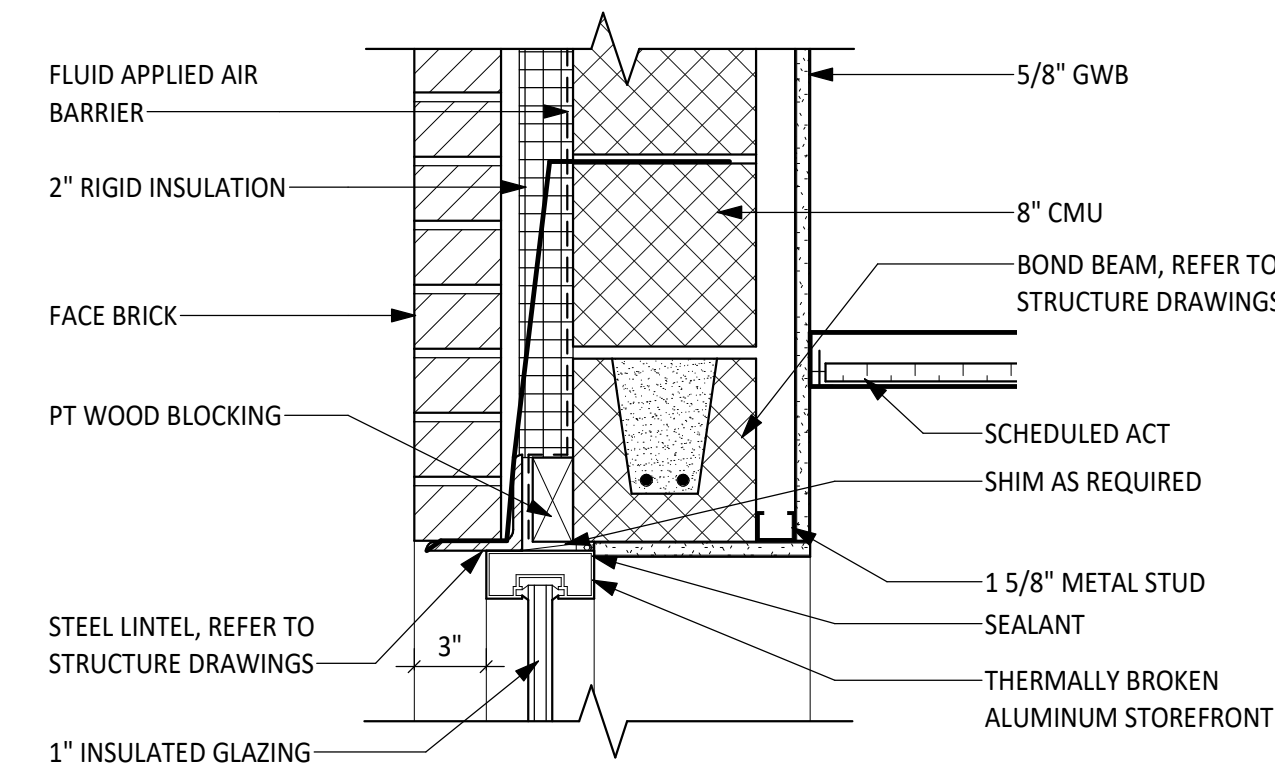
SF-4
SCALE: 1/2" = 1'-0"



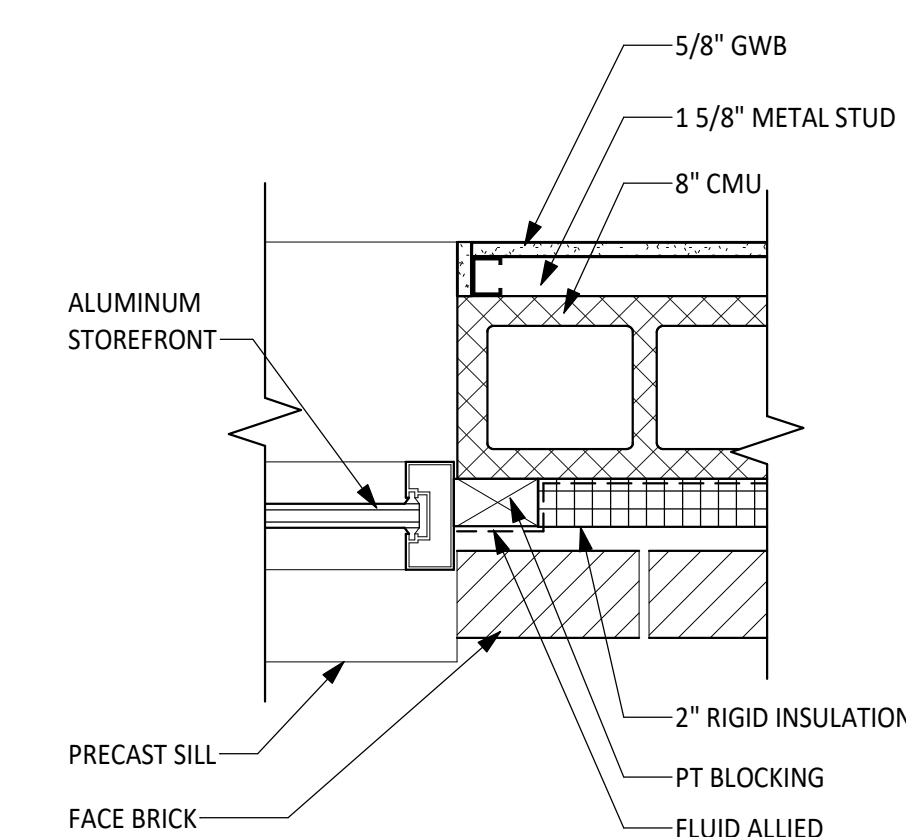
SF-5
SCALE: 1/2" = 1'-0"



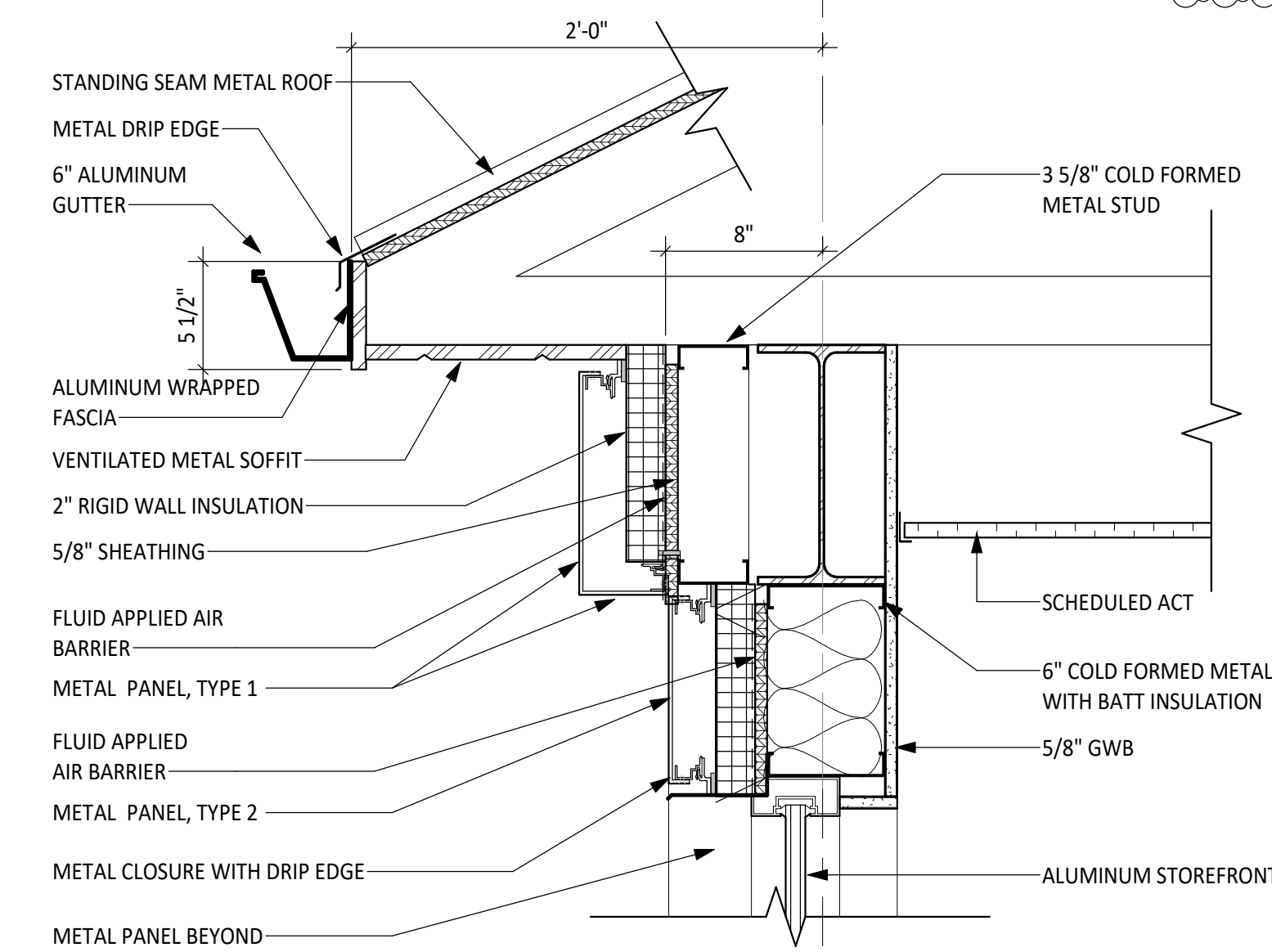
SF-6
SCALE: 1/2" = 1'-0"



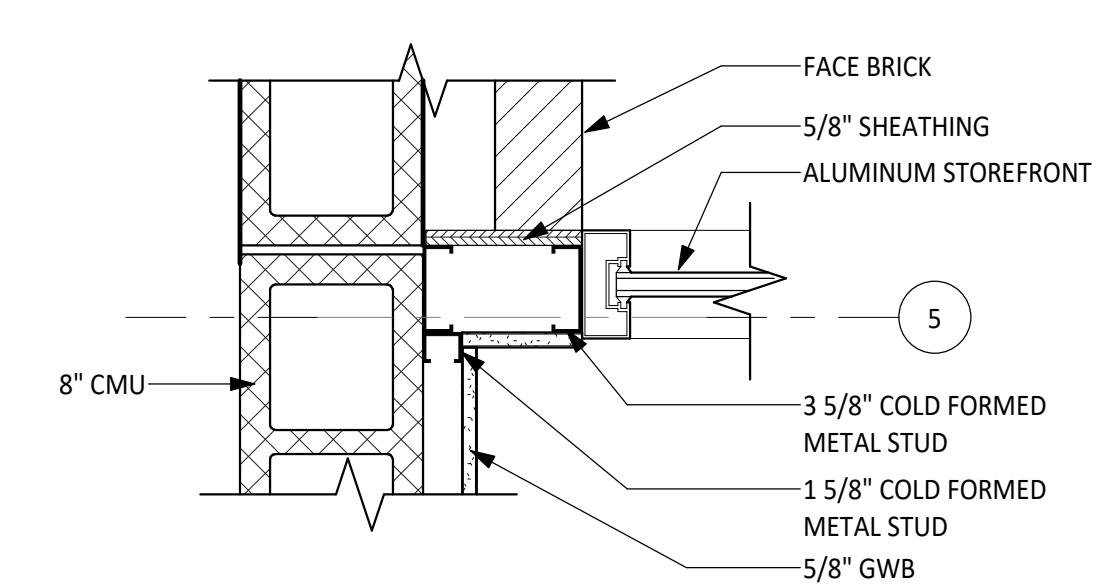
1 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



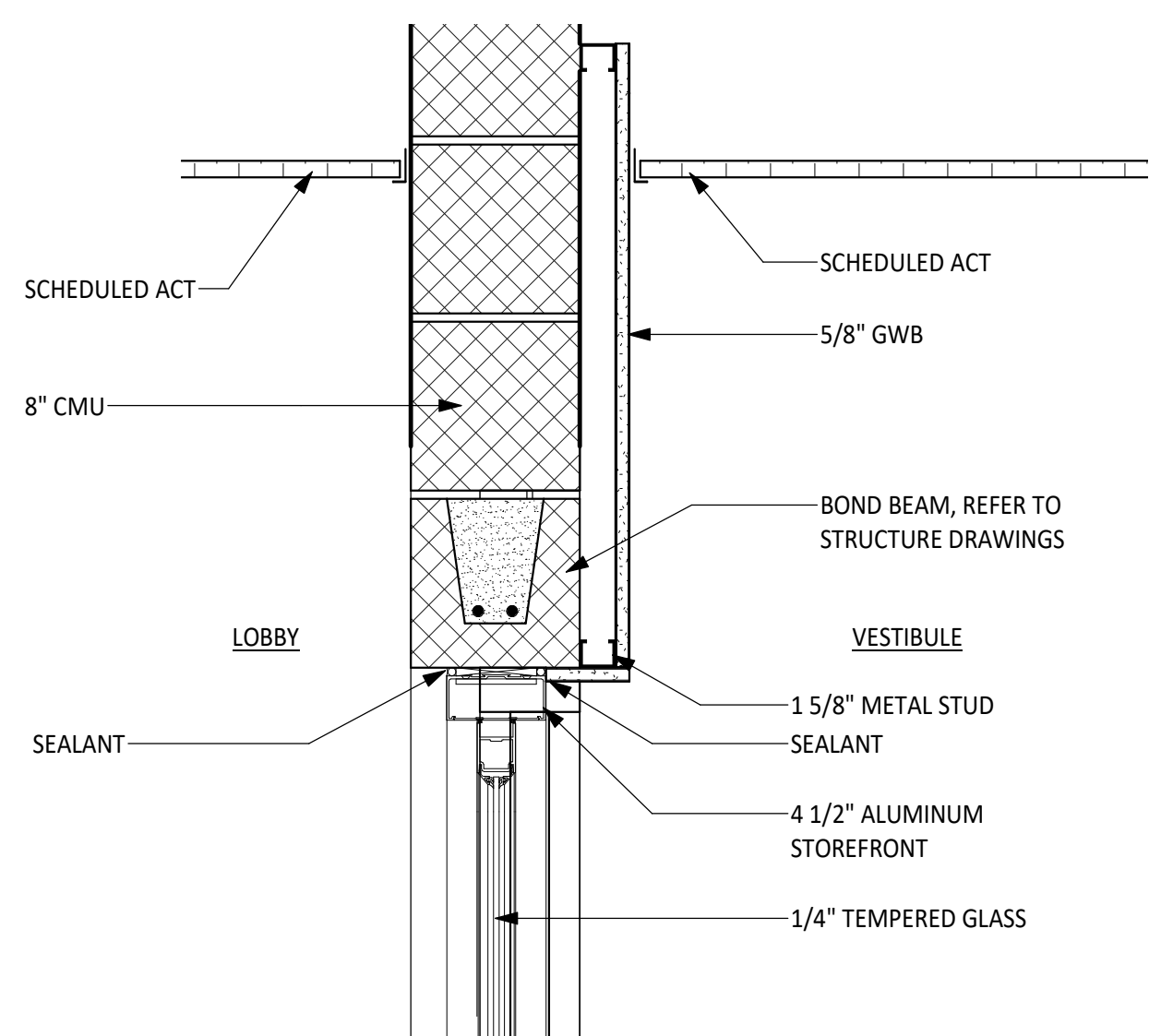
2 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



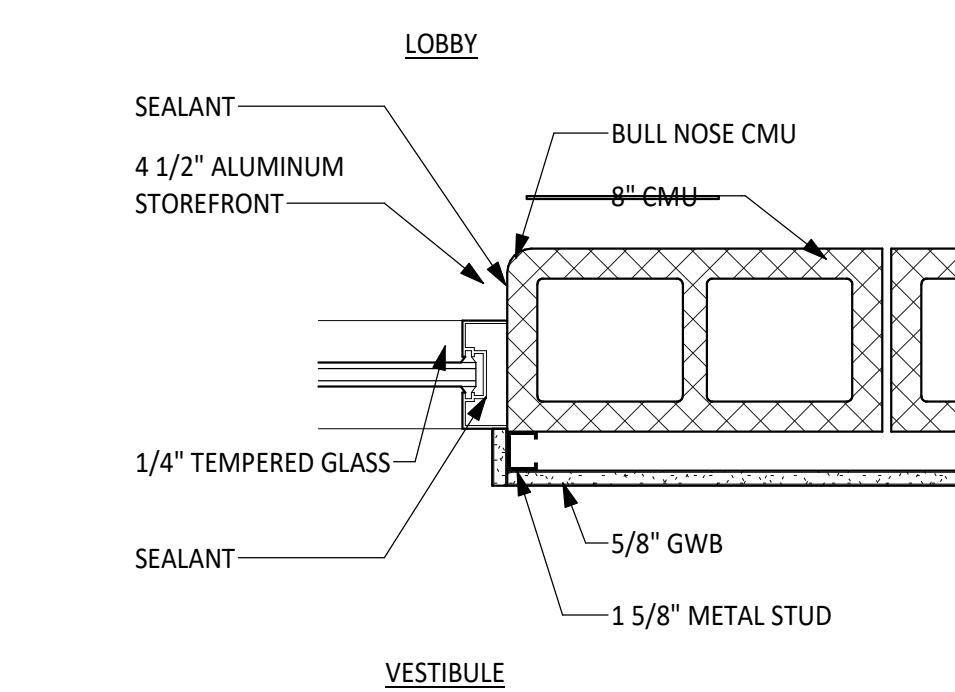
3 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



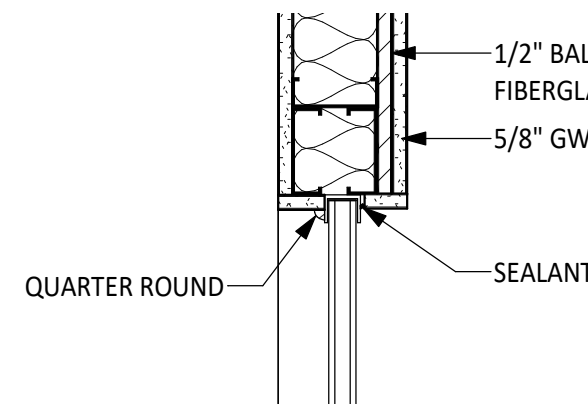
4 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



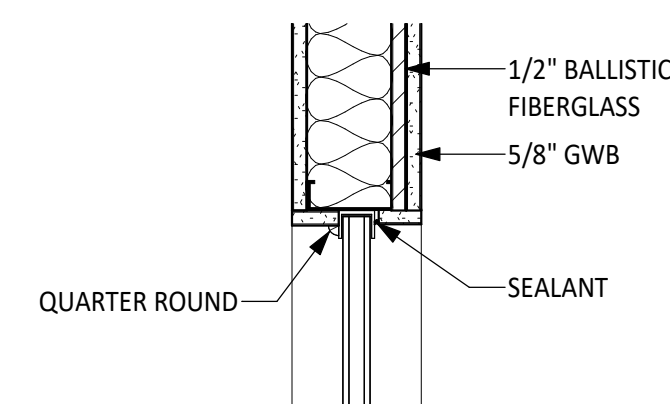
5 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



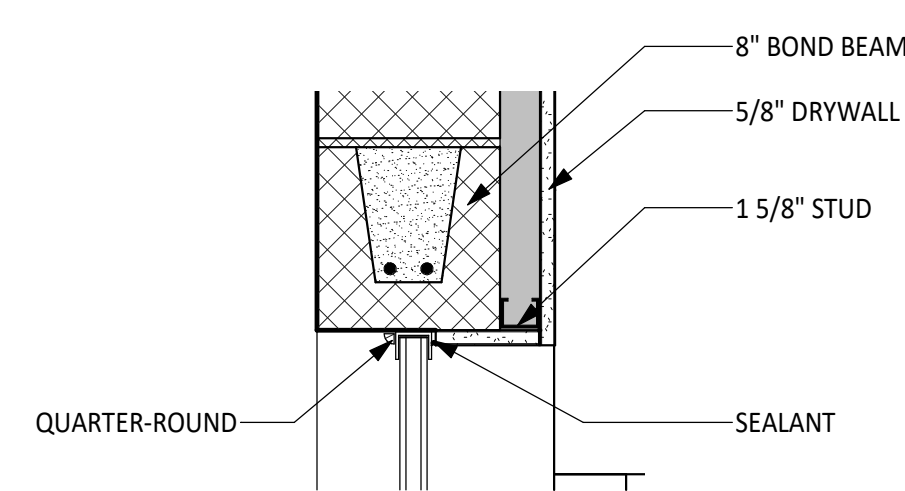
6 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



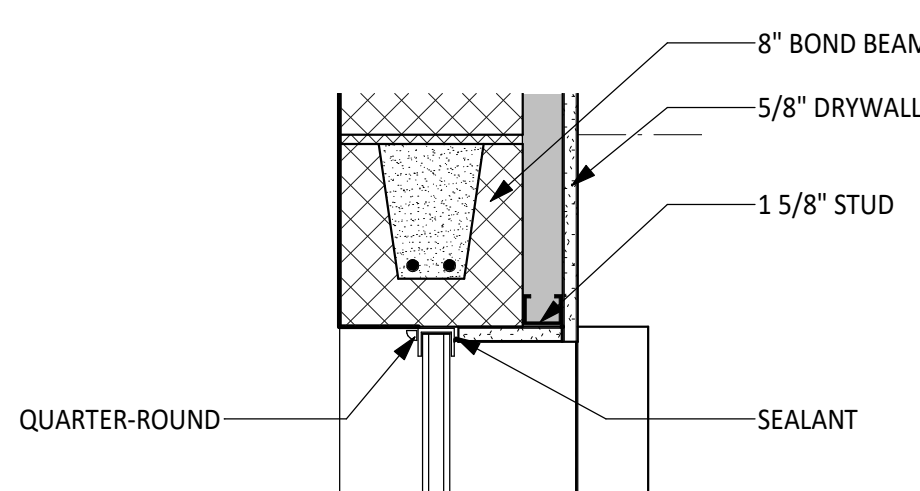
7 HEAD DETAIL1
SCALE: 1 1/2" = 1'-0"



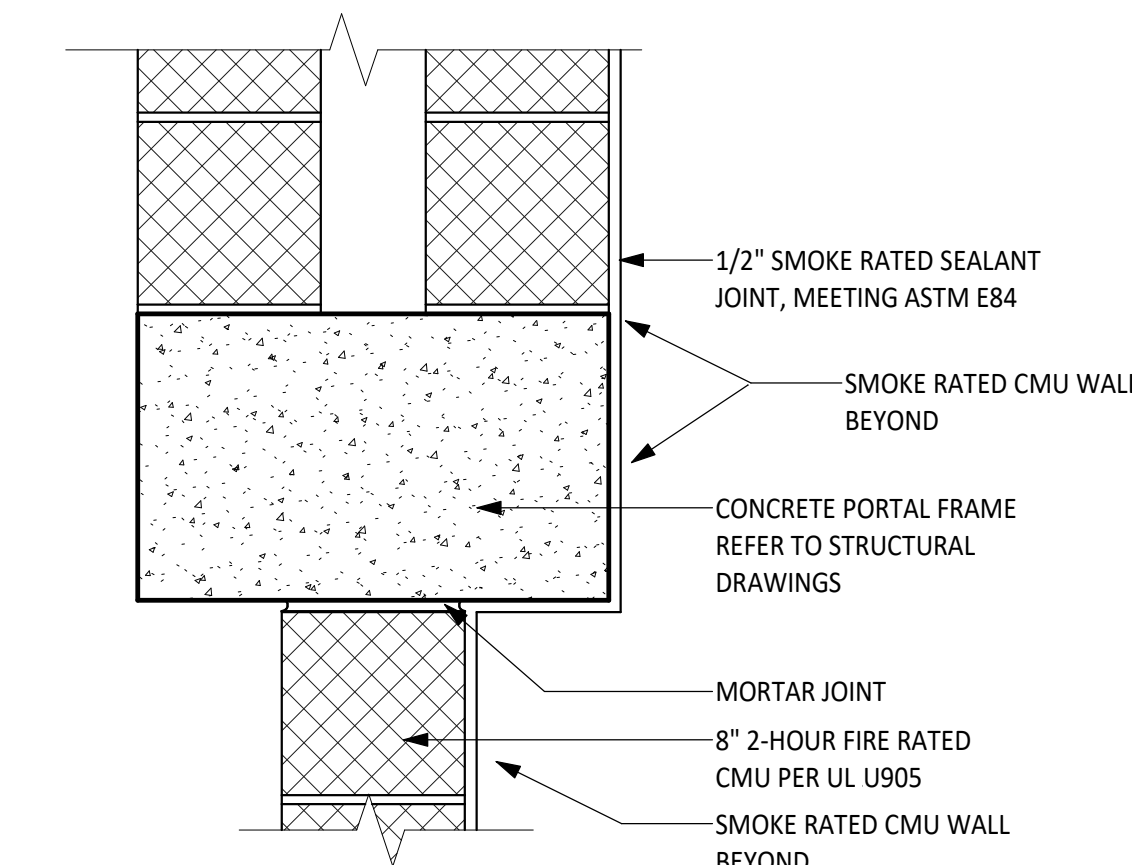
9 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



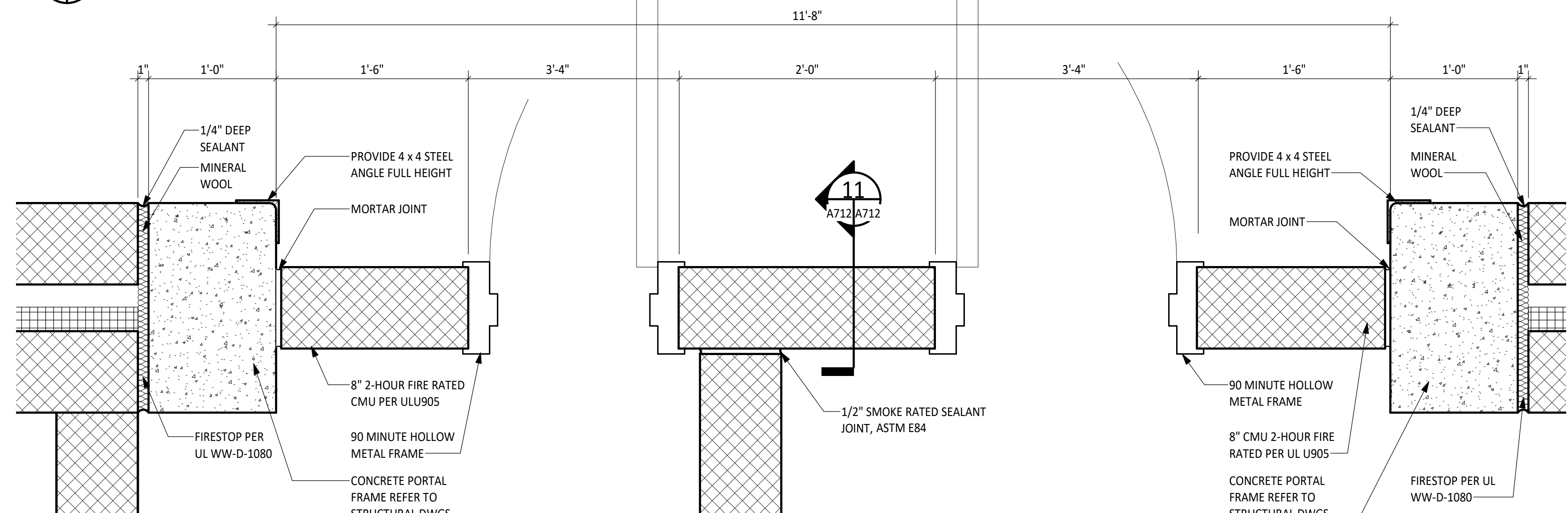
8 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



10 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



11 HEAD DETAIL
SCALE: 1 1/2" = 1'-0"



12 DOORS M120 AND M119 JAMB DETAIL
SCALE: 1 1/2" = 1'-0"



MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING

STOREFRONT DETAILS

Rev. 11/17/2023
Rev. 12/01/2023

Designed: EFS
Drawn: TWMM
Checked: EFS
Date: 10/11/2023

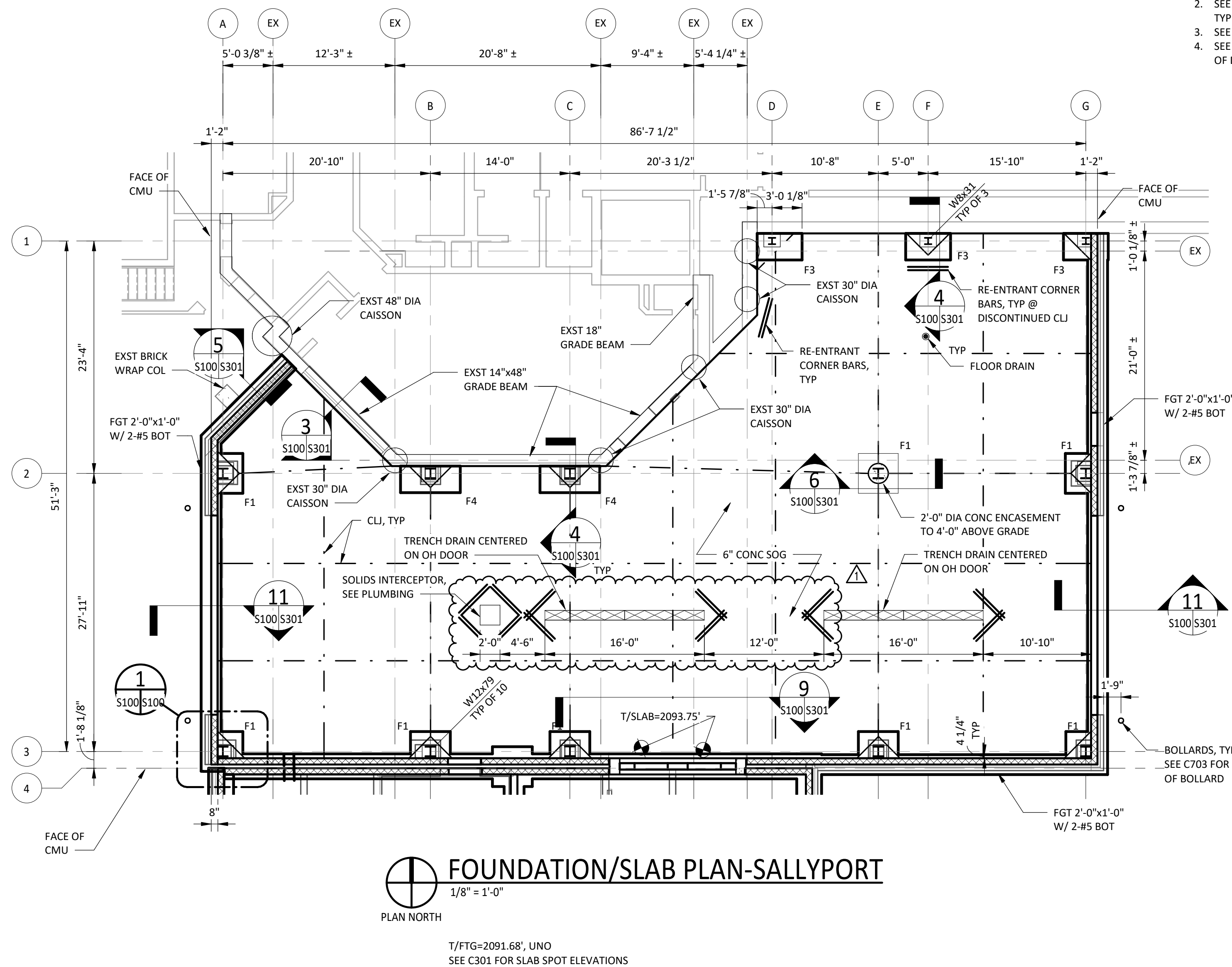
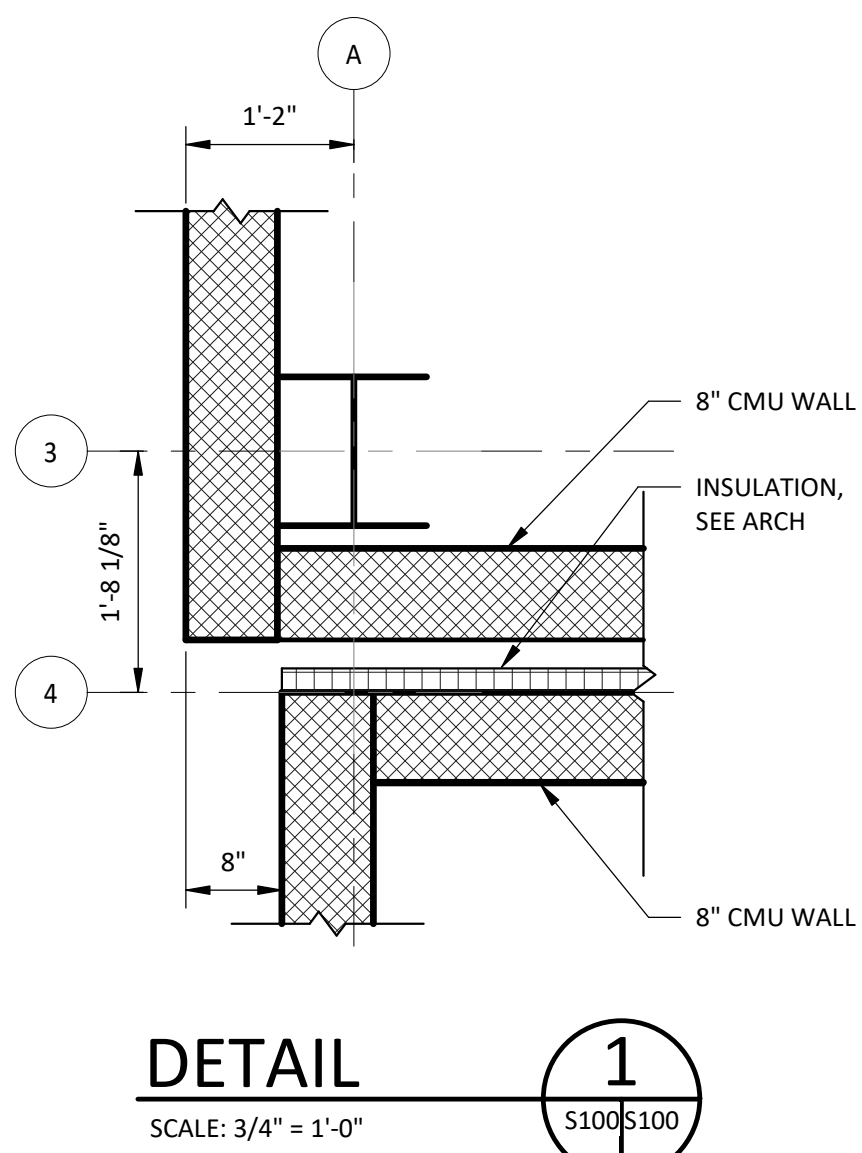
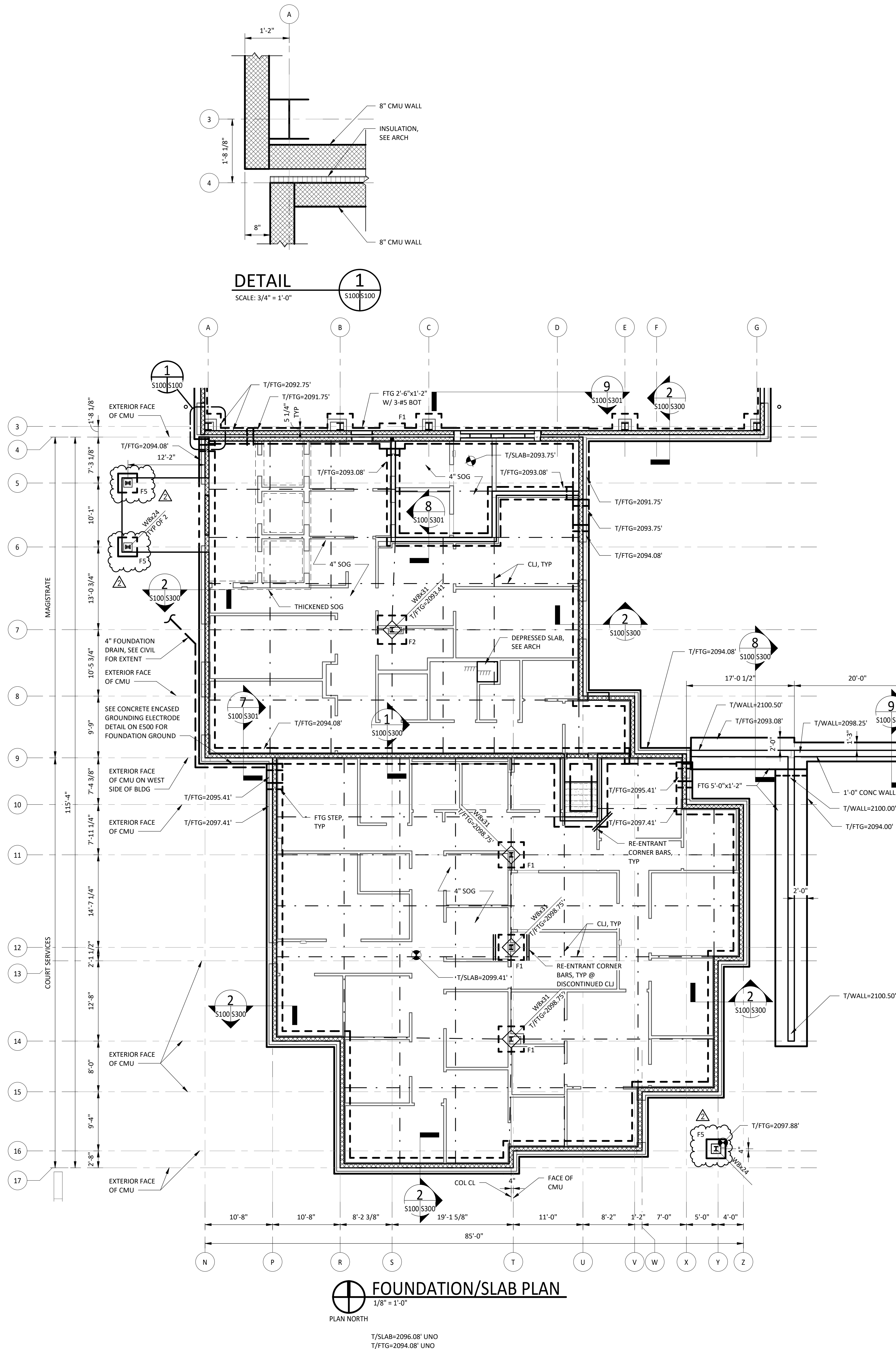
Project No. 16910



Sheet No.

A712

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Date/Time: 11/28/2023 2:25:40 PM



FOUNDATION SCHEDULE			
MARK	FOOTING SIZE	FOOTING REINFORCING	REMARKS
F1	4'-0"x4'-0"x1'-2"	5-#5 EW, BOT	
F2	4'-6"x4'-6"x1'-2"	5-#5 EW, BOT	
F3	2'-8"x4'-0"x1'-2"	3-#5 AND 5-#5	
F4	2'-8"x6'-0"x1'-2"	3-#5 AND 7-#5	
F5	3'-0"x3'-0"x1'-2"	4-#5 EW, BOT	

- SHEET NOTES:
- SEE S001 FOR GENERAL NOTES.
 - SEE SHEETS S200 AND S201 FOR TYPICAL DETAILS.
 - SEE S300 AND S301 FOR SECTIONS.
 - SEE ARCH DRAWINGS FOR LOCATIONS OF DOORS, WINDOWS, AND WALLS.



MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING

FOUNDATION/SLAB PLAN

No.	Date	ADDENDUM NO. 2	Purpose of Document Issue
1	11/17/2023		
2	12/01/2023	ADDENDUM NO. 4	

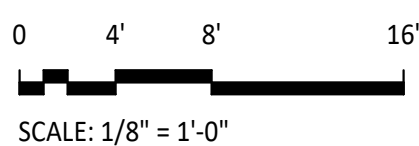
Designed	KAA
Drawn	MLT
Checked	RHT
Date	10/11/2023

Project No.
16910



Sheet No.

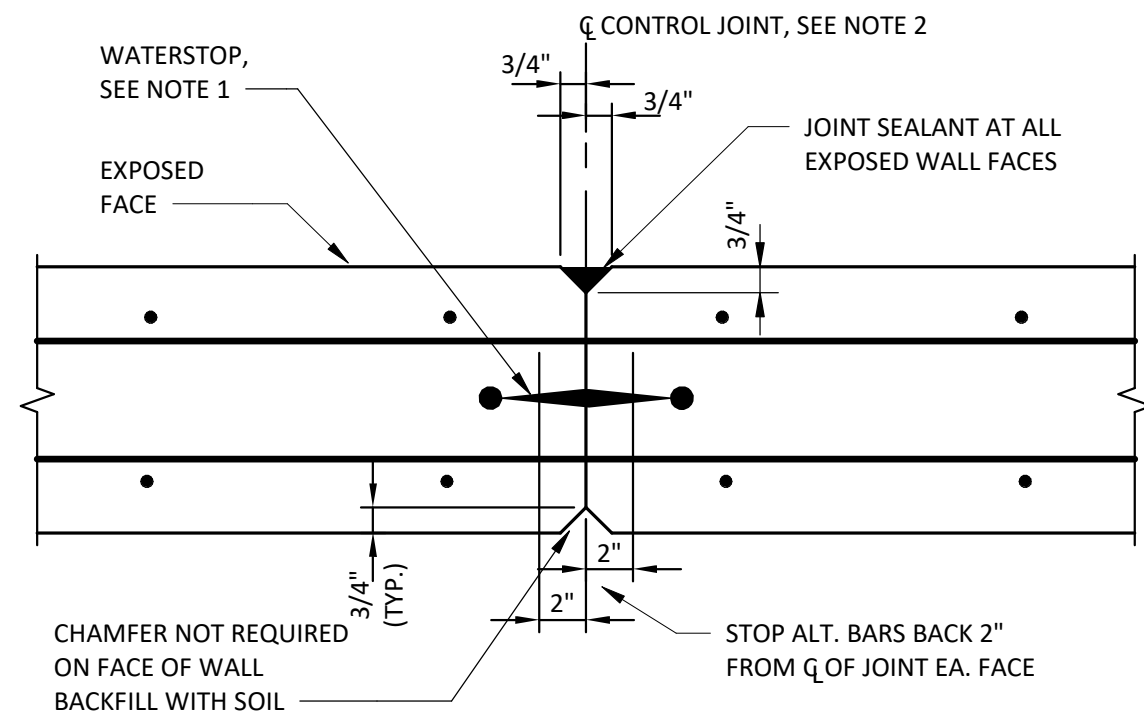
S100



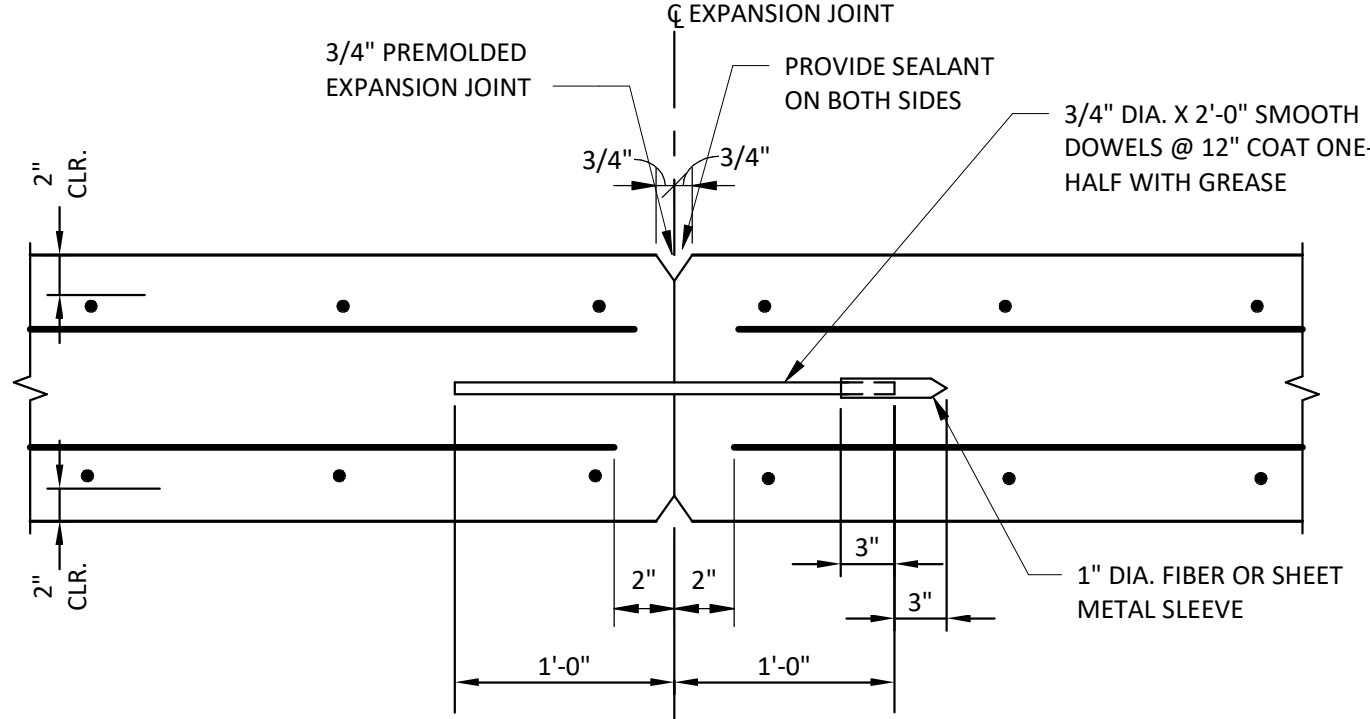
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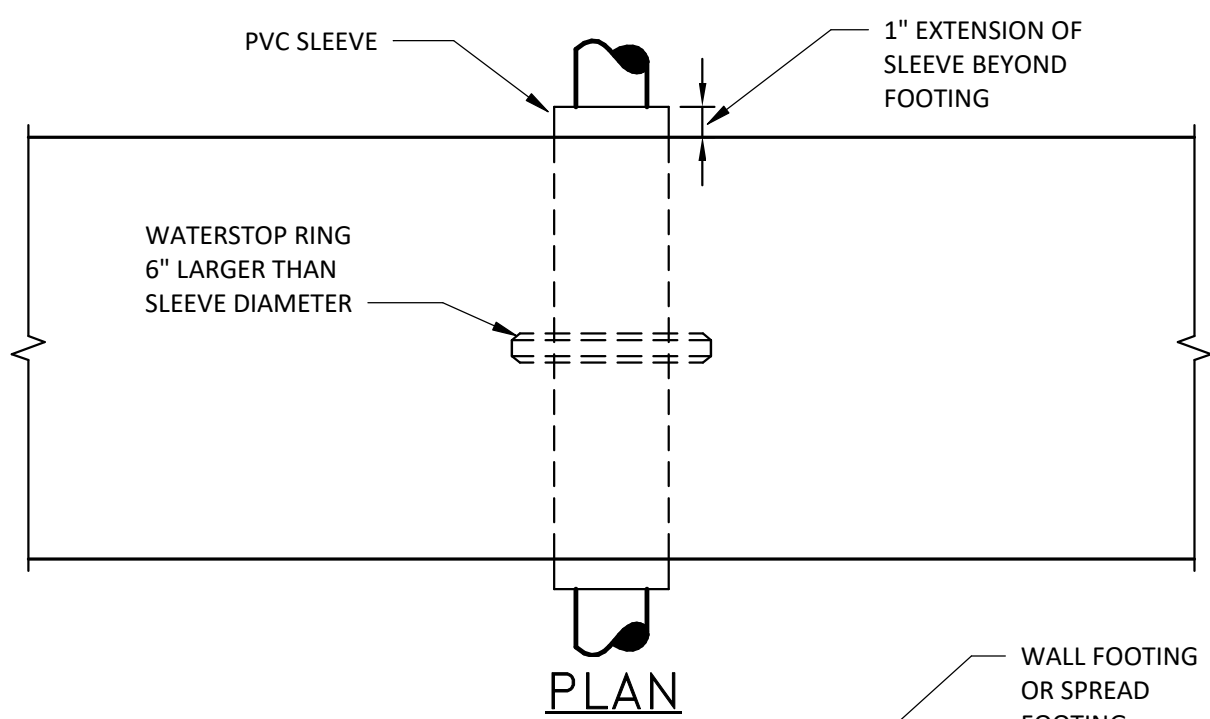
TYPICAL DETAIL CONCRETE STAIRS



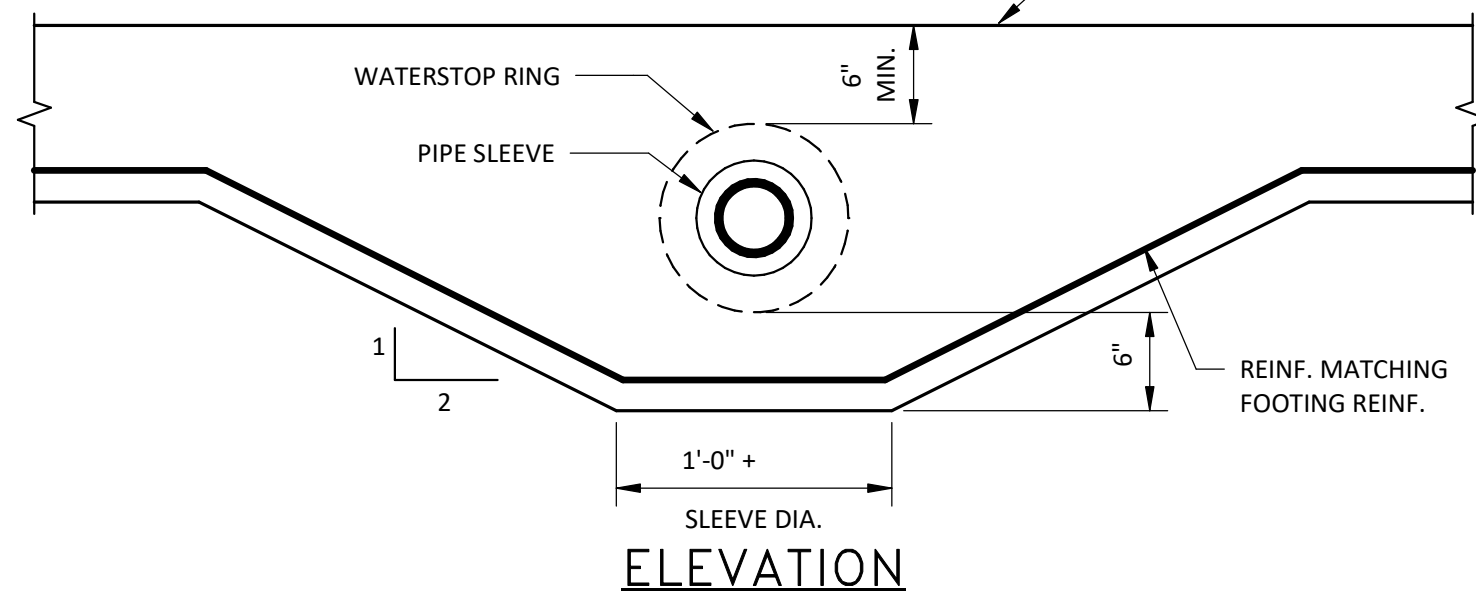
TYPICAL DETAIL-WALL CONTROL JOINT



TYPICAL DETAIL-EXPANSION JOINT IN WALL

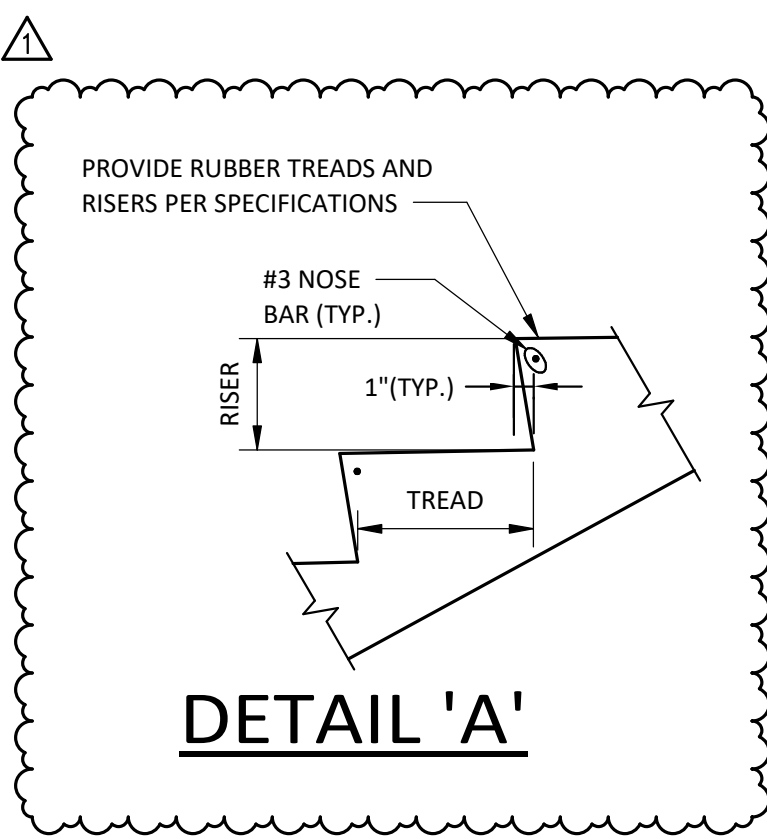


TYPICAL DETAIL-CONCRETE WALL CORNER REINFORCING DETAIL



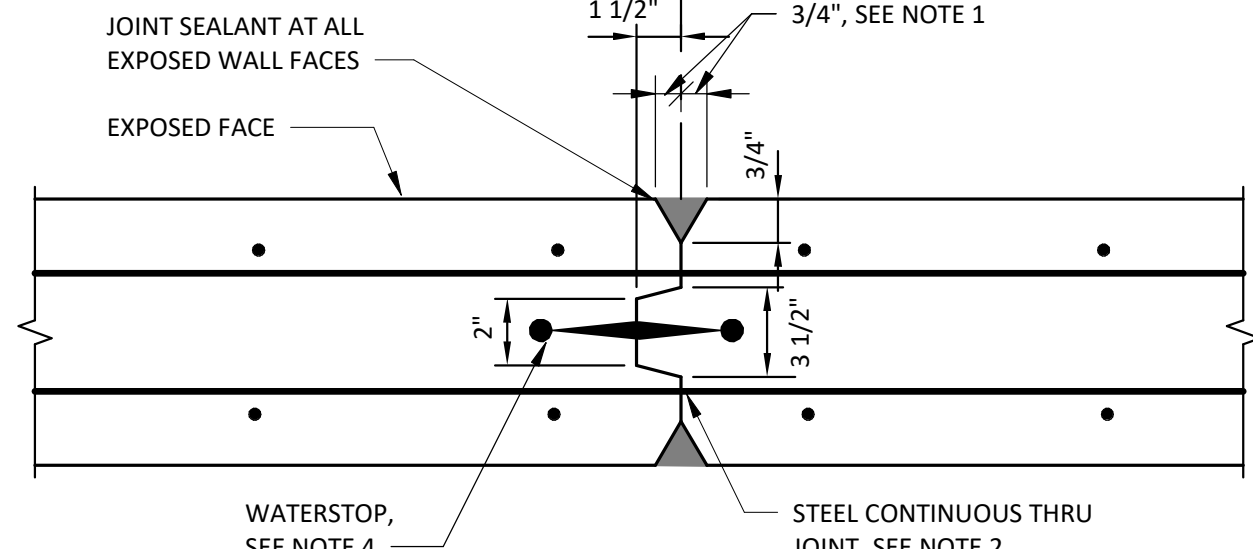
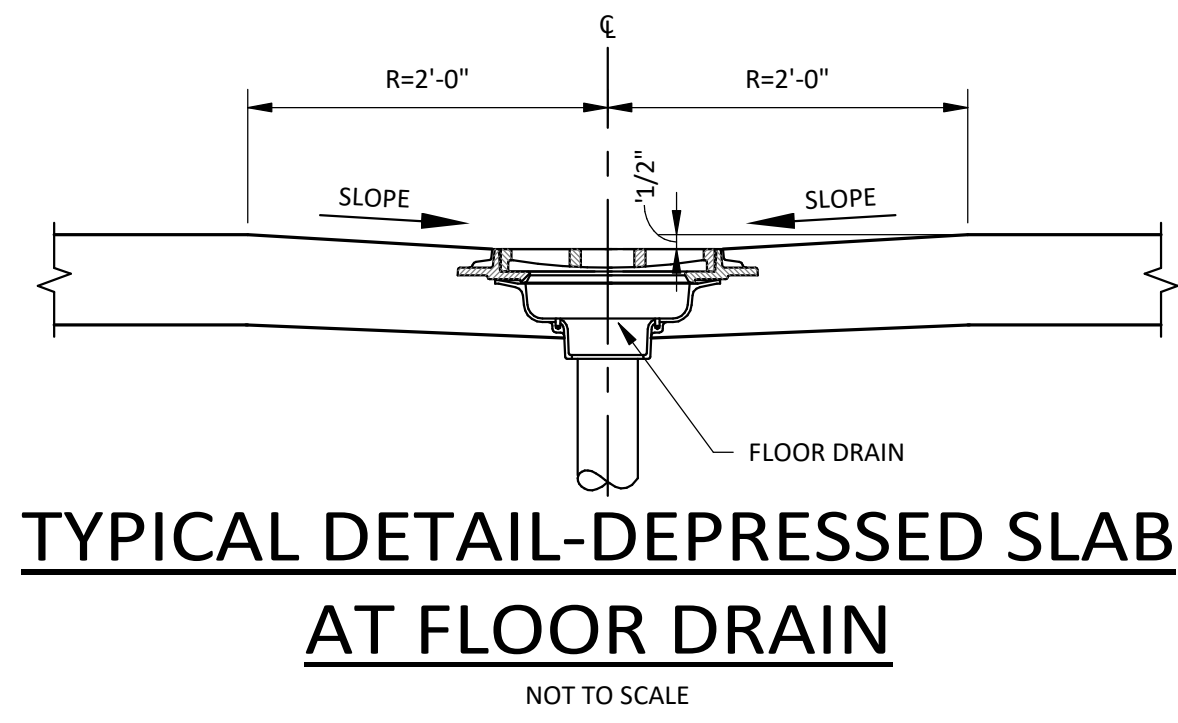
TYPICAL DETAIL-PIPE SLEEVE THROUGH FOOTING

NOTE: THICKEN FOOTING WHEN PIPE PASSES THROUGH FOOTING OR IS WITHIN 12" OF THE BOTTOM OF THE FOOTING. WHEN PIPE IS 12" TO 24" BELOW BOTTOM OF FOOTING BACKFILL TRENCH WITH AGGREGATE.

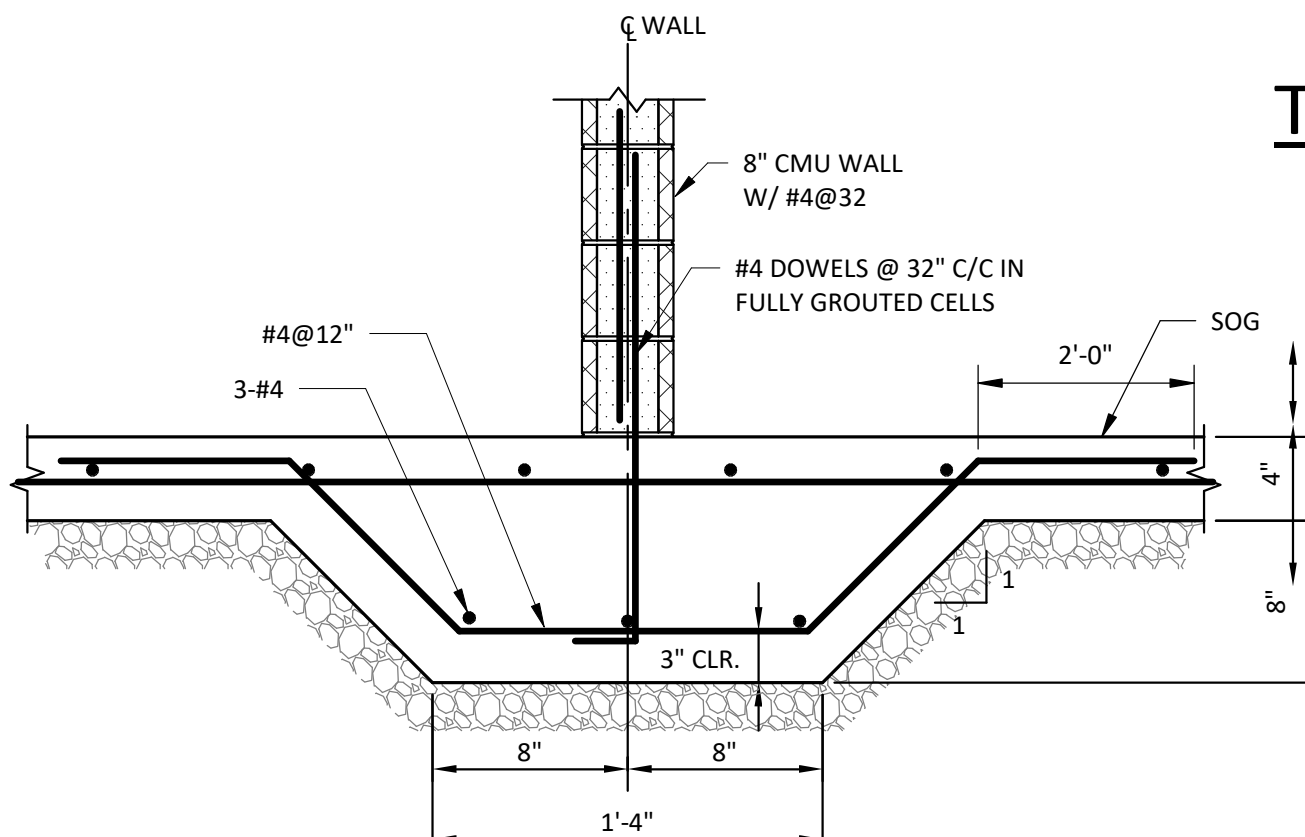


DETAIL 'A'

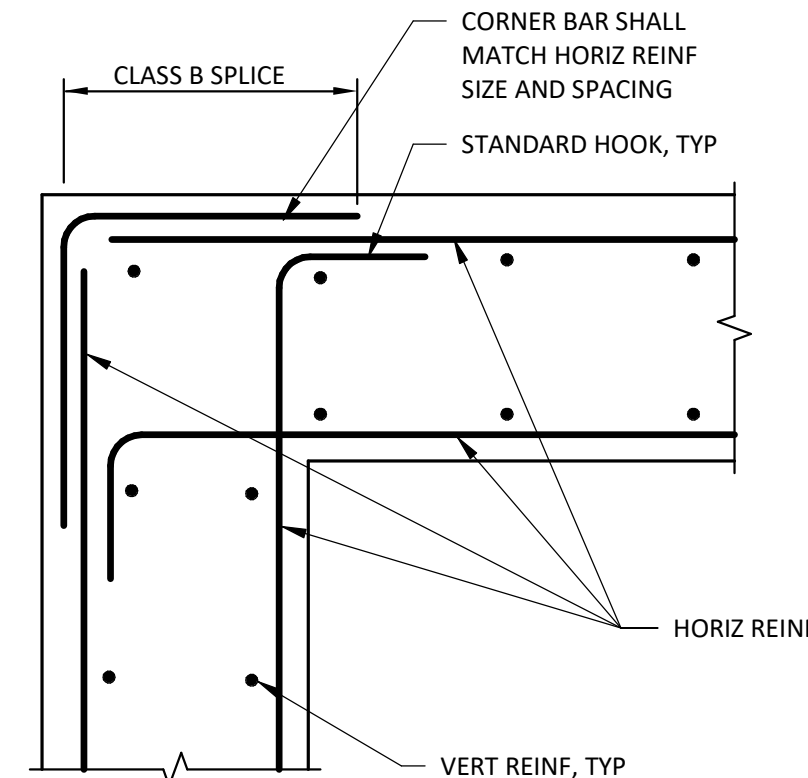
TYPICAL DETAIL-DEPRESSED SLAB AT FLOOR DRAIN



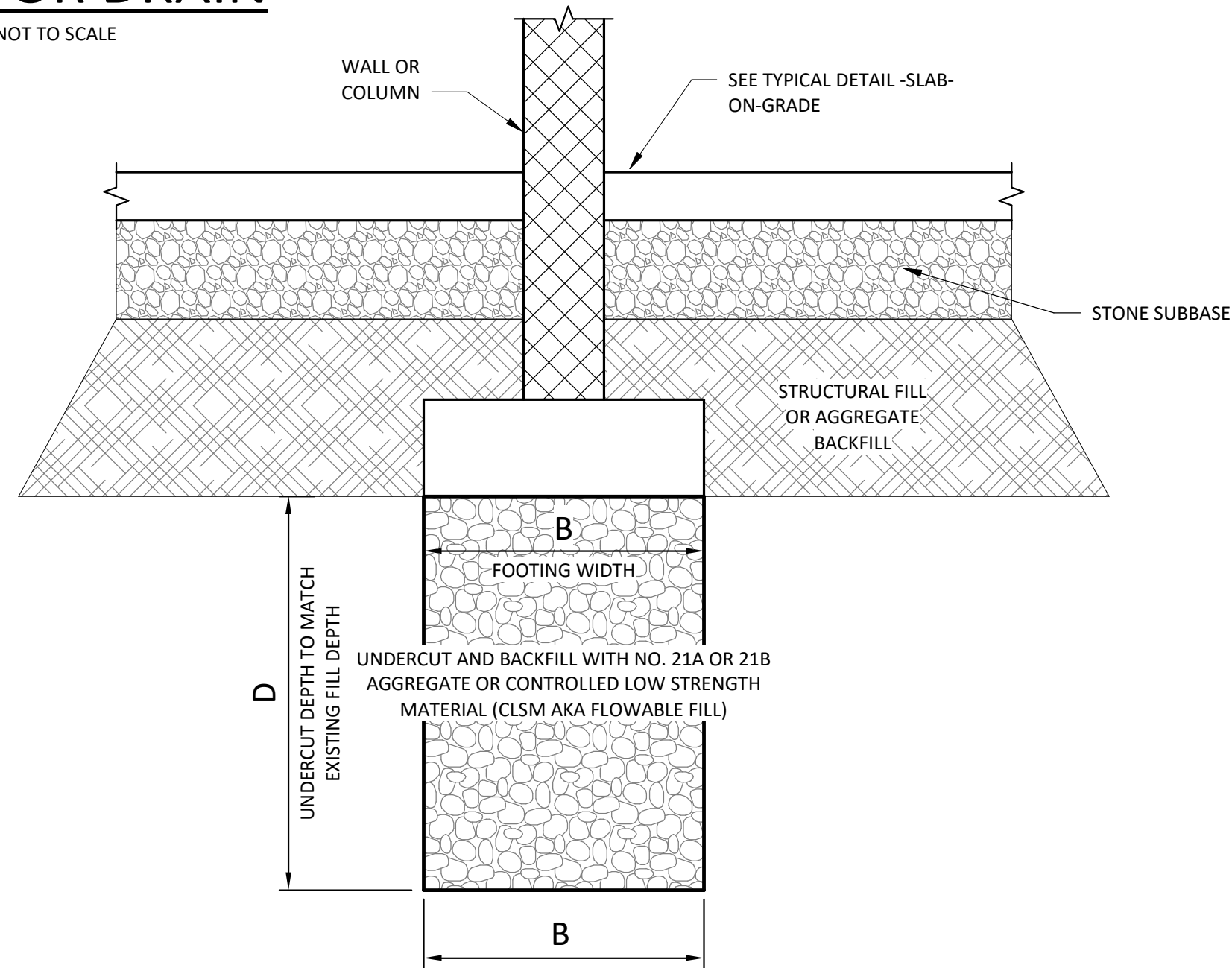
TYPICAL DETAIL-WALL CONSTRUCTION JOINT



TYPICAL DETAIL-THICKENED SLAB AT INTERIOR PARTITION WALLS

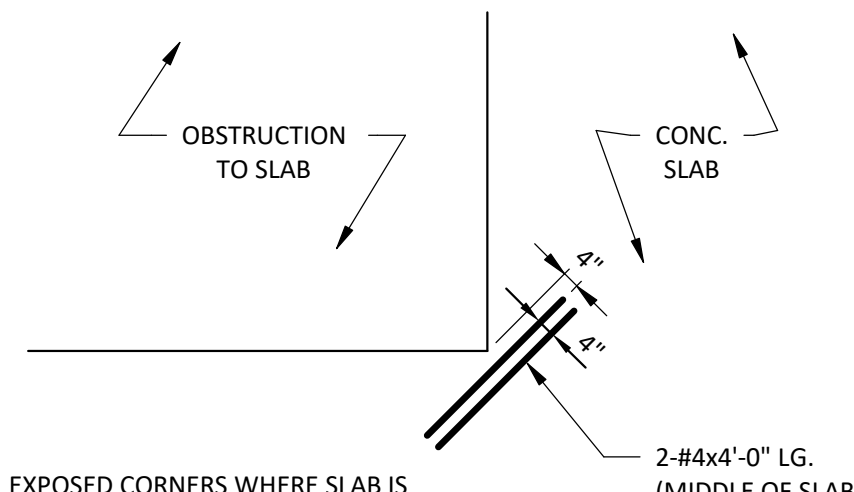


TYPICAL DETAIL-CONCRETE WALL CORNER REINFORCING DETAIL

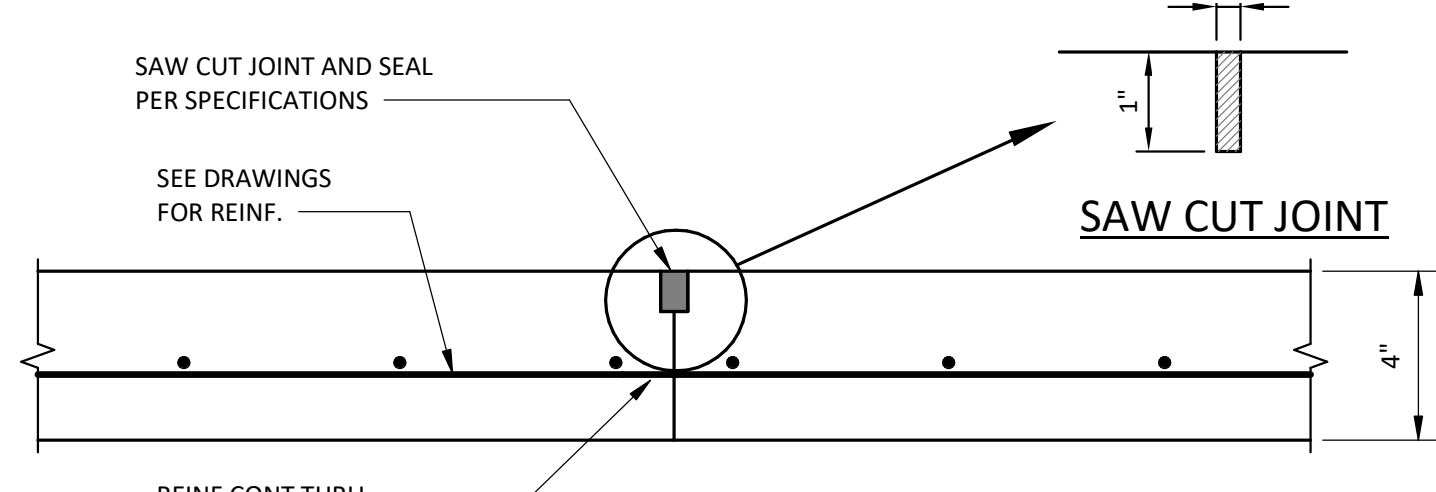


TYPICAL DETAIL-FOOTING UNDERCUT

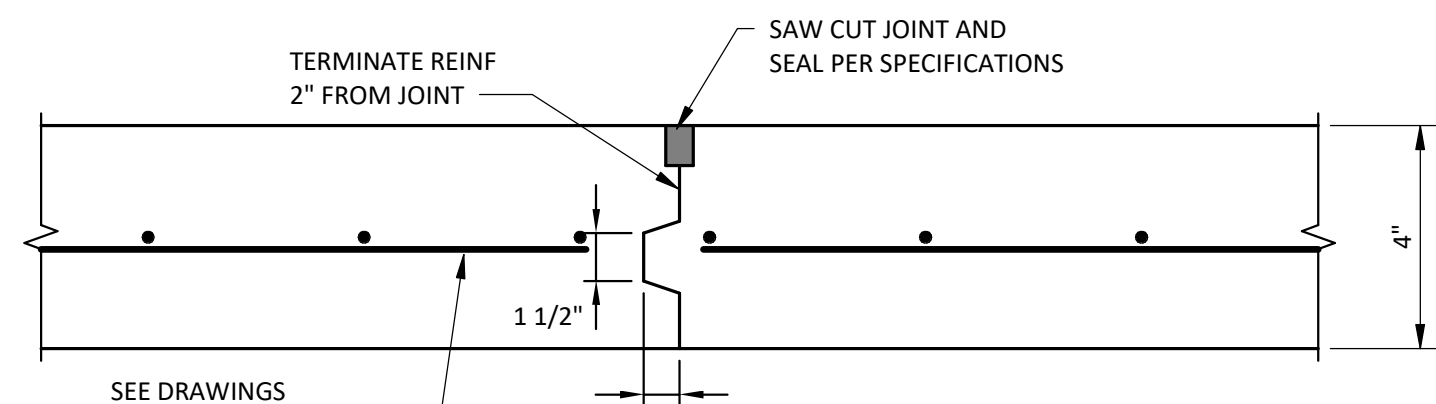
NOTES:
1. ALL WALL AND COLUMN FOOTINGS SHALL BE UNDERCUT PER THIS DETAIL WHERE EXISTING FILL IS PRESENT BELOW FOUNDATION BEARING.



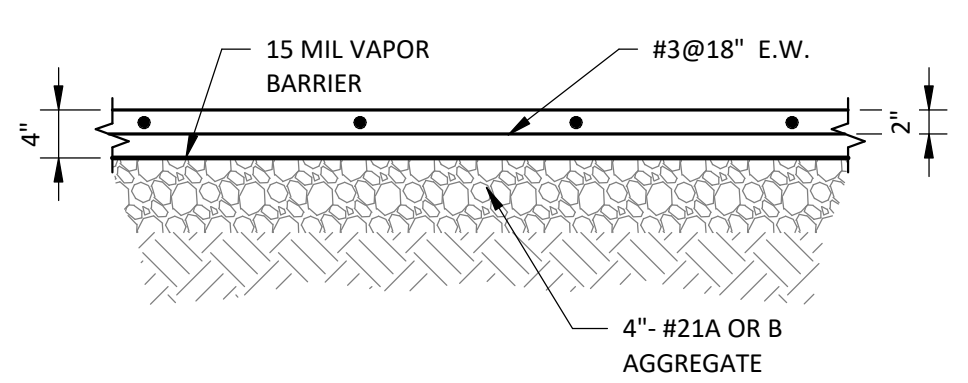
TYPICAL DETAIL-RE-ENTRANT BAR



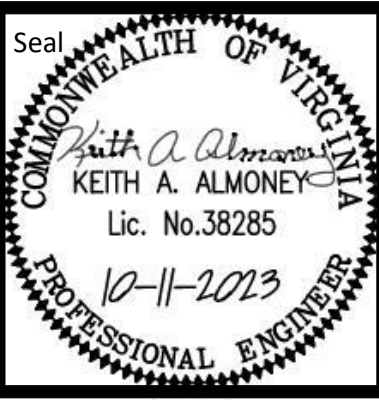
TYPICAL DETAIL-CONTROL JOINT FOR SLAB-ON-GRADE



TYPICAL DETAIL-CONSTRUCTION JOINT FOR 4" SLAB-ON-GRADE



TYPICAL DETAIL-SLAB-ON-GRADE



MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING

TYPICAL DETAILS

No.	1	Date	12/01/2023	ADDENDUM NO. 4	Purpose of Document Issue
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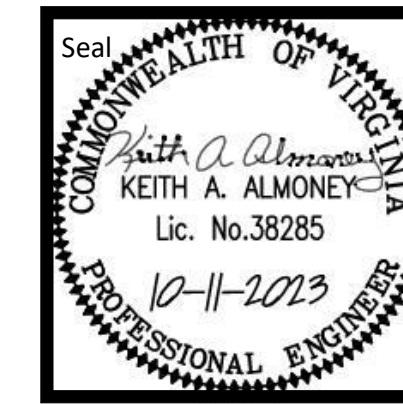
Designed	KAA
Drawn	MLT
Checked	RHT
Date	10/11/2023

Project No.	16910
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Sheet No.

S200



MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING

SECTIONS

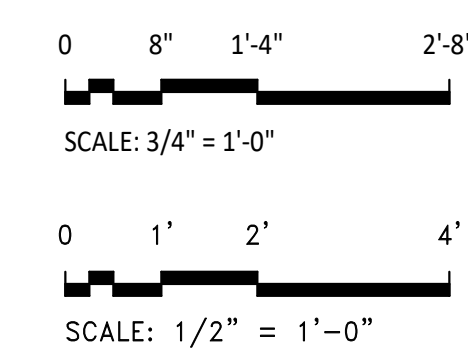
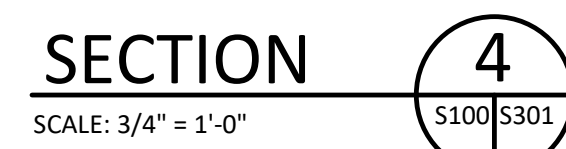
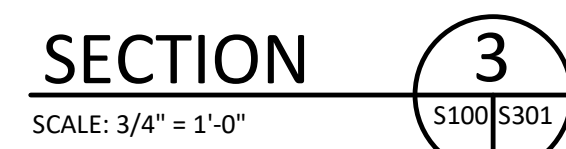
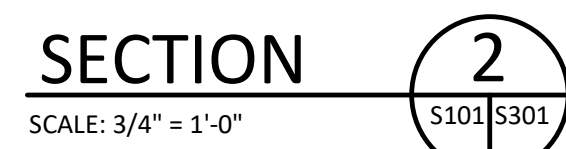
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Designed	KAA
Drawn	MLT
Checked	RHT
Date	10/11/2023

Project No.
16910

Sheet No.

S301



A.D.A. MOUNTING HEIGHT FOR (H.C.) FIXTURES		
	DESCRIPTION	HEIGHT (A.F.F.)
1.	WATER CLOSETS	SEAT 17"-19" CONTROLS 44" (MAX.)
2.	URINALS	RIM 17" (MAX.) CONTROLS 44" (MAX.)
3.	LAVATORIES AND SINK	RIM OR COUNTERTOP 34" (MAX.) KNEE CLEARANCE 8" (MIN.) TOE CLEARANCE 6" (MAX.) DEPTH 17" (MIN.) BOTTOM 27" (MIN.) APRON (BOTTOM) 29" (MIN.)
4.	DRINKING FOUNTAINS	APRON (BOTTOM) 27" (MIN.) RIM OR COUNTERTOP 34" (MAX.)
5.	SHOWERS STALLS	SEAT 17"-19" (36"x36" STALL) (MOUNTED ON OPPOSITE SIDE OF CONTROLS AND FULL LENGTH OF STALL) CONTROLS 38" (MAX. TO BOTTOM AND 48" MAX. TO TOP) GRAB BARS 33"-36"

TYPICAL PLUMBING NOTES

- COORDINATE WITH ARCHITECTURAL PLANS FOR ALL FIRE-RATED BUILDING ASSEMBLIES, PROVIDE AND INSTALL U.L. RATED FIRE-STOP ASSEMBLIES IN ANY SUCH AREAS AS REQUIRED BY CODE.
- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
- WORKMANSHIP: PLUMBING FIXTURES AND ACCESSORIES SHALL BE INSTALLED IN A NEAT WORKMANLIKE MANNER. UNSIGHTLY INSTALLATIONS SHALL BE REMOVED OR REWORKED AT NO EXPENSE TO THE OWNER.
- REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL COORDINATION WITH THESE DRAWINGS.
- SEAL ALL WALL, ROOF, AND FLOOR PENETRATIONS BY PLUMBING SERVICE AIRTIGHT.
- PROVIDE CHROME-PLATED ESCUTCHEONS AT ALL EXPOSED PIPE PENETRATIONS THROUGH WALLS.
- COORDINATE ALL PENETRATIONS OF FLOOR SLABS, ROOF, AND WALLS WITH STRUCTURAL DRAWINGS.
- PROVIDE WATER STOP VALVES AT EACH EQUIPMENT ITEM.
- COORDINATE WITH APPROVED ARCHITECTURAL DRAWINGS BEFORE ROUGHING-IN PLUMBING
- ALL FLOOR DRAINS AND OPEN HUB DRAINS SHALL BE INSTALLED WITH DEEP SEAL P-TRAPS. PROVIDE GREEN TRAP SEALS AS SHOWN ON PLANS AND AT ALL LOCATIONS REQUIRED BY CODE AND LOCAL AUTHORITY.
- SLOPES OF SANITARY WASTE AND VENT SHALL BE ESTABLISHED AND VERIFIED BY THE CONTRACTOR PRIOR TO PIPING BEING INSTALLED IN ORDER THAT PROPER SLOPES WILL BE MAINTAINED AND NECESSARY INVERT ELEVATIONS OBTAINED.
- THE CONTRACTOR SHALL PROVIDE ALL VALVES, PRESSURE REDUCING VALVES, SHOCK ABSORBERS AND ACCESSORIES TO COMPLETELY INSTALL ALL EQUIPMENT TO MAKE A COMPLETE INSTALLATION.
- THE CONTRACTOR SHALL INSTALL ALL OWNER-FURNISHED EQUIPMENT WITH ALL ITEMS TO MAKE EQUIPMENT OPERABLE.
- ALL VENTING OF FIXTURES SHALL COMPLY WITH APPLICABLE CODES AND ORDINANCES.
- USE DIELECTRIC UNIONS WHERE PIPE OF DIFFERENT METALS ARE JOINED.
- MAKE PROPER HOT & COLD WATER, WASTE, VENT ETC. PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL BRANCH RUNS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
- PVC OR OTHER PLASTIC COMPOSITE PIPING SHALL NOT BE INSTALLED IN RETURN AIR PLENUMS.
- CLEANOUTS FOR SOIL AND WASTE LINES SHALL BE INSTALLED WHERE INDICATED ON THE DRAWINGS AND EVERY 90-DEGREE CHANGE IN DIRECTION.
- ALL PIPING SHOWN ON THESE PLANS ARE TO BE ROUTED ABOVE CEILINGS, BELOW FLOORS AND IN CHASES UNLESS OTHERWISE NOTED.
- SEE SITE PLAN FOR EXTENT OF ALL PIPING LEAVING OR ENTERING THE BUILDING.
- THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF SANITARY AND WATER TIE-IN POINTS WITH THE LOCAL WATER AND SEWER AUTHORITIES.
- THE CONTRACTOR SHALL PAY ALL ASSOCIATED COSTS FOR TAP FEES, PERMITS FOR SUPPLY AND INSTALLATION OF BACKFLOW PREVENTER AND/OR WATER METER ON SITE AS REQUIRED.
- SERVICE VALVES SHALL BE FURNISHED AND INSTALLED ON ALL HOT AND COLD-WATER LINES AT EQUIPMENT IN AN ACCESSIBLE POSITION.
- ALL FLOOR OPENINGS ARE TO BE SEALED WATERTIGHT BY MEANS OF SLEEVES.
- ALL HORIZONTAL AND VERTICAL PIPING LINES EXTENDED AND CONNECTED TO EQUIPMENT SHALL BE RUN AT THE HIGHEST POSSIBLE ELEVATION AND NOT LESS THAN 4" ABOVE FLOOR TO PROVIDE CLEARANCE FOR CLEANING. AT WALL OR COLUMN LOCATIONS, PIPING ROUGH IN SHALL BE STUBBED IN WALLS WHEREVER POSSIBLE.
- EXISTING CONDITIONS SHOWN HEREIN WERE TAKEN FROM SITE OBSERVATIONS, ORIGINAL DESIGN DRAWINGS AND AS-BUILT DOCUMENTATION WHERE AVAILABLE; ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE ARCHITECT / ENGINEER.
- IN AREAS WHERE A WATER LINE IS TO BE LOCATED IN AN EXTERIOR WALL, THE PIPE IS TO BE PLACED ON THE INSIDE (LIVING SIDE) OF THE INSULATION.
- DOMESTIC WATER INSULATION SHALL BE FIBERGLASS PIPE INSULATION MINIMUM DENSITY 3.5 PCF; 1/2" THICKNESS FOR COLD WATER AND 1" THICKNESS FOR HOT WATER.
- WASTE AND VENT PIPE TO BE SCHEDULE 40 PVC; DOMESTIC WATER PIPE TO BE TYPE L OR K HARD DRAWN COPPER.
- EQUIPMENT AND MATERIALS SUBMITTED AS ALTERNATES TO THE SPECIFIED DATA MUST BE CLEARLY MARKED AS TO THE DIFFERENCES IN THE SUBMITTED VERSUS SPECIFIED. FAILURE TO CLEARLY MARK THE SUBMITTALS AS SUCH IS GROUNDS FOR REJECTION. SUBMITTALS NOT CLEARLY MARKED AS BEING ALTERNATE TO THE SPECIFIED DATA CAN BE ASSUMED TO MEET ALL SPECIFIED REQUIREMENTS. THE PROVIDER IS RESPONSIBLE TO PROVIDE AS SUCH.
- THE CONTRACTOR IS TO REFER TO THE ARCHITECTURAL PLANS FOR THE LOCATION AND ELEVATIONS OF ALL ADA FIXTURES.
- THE "REDUCTION IN LEAD IN DRINKING WATER ACT" REQUIRES MATERIALS AND FIXTURES USED FOR DELIVERY OF POTABLE WATER TO CONTAIN LESS THAN 0.2% LEAD FOR SOLDER AND FLUX, AND NOT MORE THAN A WEIGHT AVERAGE OF 0.25% LEAD FOR PIPES FITTING AND FIXTURES. EXCLUDED FROM THIS ACT ARE TOILETS, BIDETS, URINALS, FLUSH VALVES, TUB FILLERS, SHOWER VALVES. IT IS THE INTENT OF THIS PROJECT TO CONFORM WITH THE REQUIREMENTS OF THE 2014 LEAD FREE ACT. EVERY EFFORT HAS BEEN MADE TO CALL FOR FIXTURES THAT COMPLY WITH THE ACT. EVEN SO, IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO INSTALL PRODUCTS THAT COMPLY WITH THE 2014 LEAD FREE SAFE WATER DRINKING ACT.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. DRAWINGS SHALL NOT BE SCALED FOR FINAL CONSTRUCTION DIMENSIONS.
- DO NOT ROUTE ANY PIPING DIRECTLY OVER ELECTRICAL PANELS AND EQUIPMENT, ELEVATOR EQUIPMENT AND CONTROLS, OR TELECOMMUNICATIONS EQUIPMENT. SEE ELECTRICAL AND TELECOMMUNICATIONS DRAWINGS FOR EXACT EQUIPMENT LOCATIONS.
- FOR BELOW GRADE SANITARY WASTE PIPING, CAST IRON SHALL BE INSTALLED FOR THE FIRST TEN FEET ON DRAINS SERVING BOILER ROOMS, FOOD PREP/DISHWASHING, STERILIZERS OR ANY OTHER EQUIPMENT THAT MAY DISCHARGE WASTEWATER ABOVE 140 DEGREES FAHRENHEIT.

EEMAX TANKLESS WATER HEATER SCHEDULE (ELECTRIC)

WATER HEATER	MODEL	TURN-ON FLOW RATE GPM	H.W. SIZE	C.W. SIZE	LOCATION	VOLTAGE	WATTS
WH-1	FLOWCO SPEX2412	0.25	3/8"	3/8"	POINT OF USE	120 V	120 V
WH-2	A.O. SMITH E6-19C15SV	NA	3/4"	3/4"	M111	120 V	1500

PLUMBING LEGEND

---	COLD WATER
---	HOT WATER
---	HOT WATER RETURN
○ OR ○	PIPE TURN DOWN
---	PIPE TURN UP
---	SANITARY
---	VENT
○	CLEANOUT
○	FLOOR CLEANOUT
○ OR ○	PIPE TURN DOWN
---	PIPE TURN UP
○	ISOLATION BALL VALVE
○	CONNECT TO EXISTING

FIXTURE CONNECTION SCHEDULE

"P" NO.	DESCRIPTION	H.W.	C.W.	TRAP	WASTE	VENT
P-1	WATER CLOSET (H.C.)	--	1 1/4"	3"	3"	3"
P-2	LAVATORY (H.C.)	1/2"	1/2"	1 1/4"	2"	1 1/2"
P-3	SINK	1/2"	1/2"	1 1/4"	2"	1 1/2"
P-4	SHOWER	1/2"	1/2"	3"	3"	1 1/2"
P-5	WATER COOLER	--	1/2"	1 1/4"	3"	1 1/2"
P-6	SERVICE BASIN	1/2"	1/2"	3"	3"	1 1/2"
P-7	ROOF DRAIN	--	--	--	--	--
P-8	REFRIGERATOR/ICE MAKER	--	1/2"	--	--	--
P-9	FLOOR DRAIN	--	--	--	--	--

PLUMBING FIXTURE SCHEDULE
(APPROVED EQUALS ALSO ACCEPTED)
PLUMBING FIXTURES AND ALL ACCESSORIES SHALL BE COORDINATED AND VERIFIED WITH THE ARCHITECT

P-1	WATER CLOSET (H.C.)	Z5665 "ZURN" ADA 16-3/4" HIGH, ELONGATED BOWL, FLOOR MOUNTED, 1.28 OR 1.6 GAL. FLUSH (FLUSH VALVE) SEAT	Z59555S-EL-ST5 "ZURN" ELONGATED, WHITE, OPEN FRONT SEAT LESS COVER WITH SELF-SUSTAINING STEEL CHECK HINGE.
	VALVE 1.6GPF	Z6000AV-W51 "ZURN" 1.6GPF MODEL MANUAL FLUSHOMETER	
P-2	LAVATORY (H.C.)	Z5344 "ZURN" 20" X 18" X 4" CC HIGH BACK WALL MOUNTED SINK	
	FAUCET	Z6915-XL-TM-V-1 "ZURN" CHROME PLATED AQUASENSE BATTERY POWERED FAUCET WITH 0.5 GPM VANDAL RESISTANT AERATOR; THERMOSTATIC MIXING VALVE (MEETING ASSE 1070)	
	GRID DRAIN	Z-8743 "ZURN", 1- 1/4" 1" GA. CHROME PLATED BRASS	
	P-TRAP	Z-8700 "ZURN", 1-1/4" CHROME PLATED CAST BRASS, 17 GAUGE, DIE CAST NUTS, CLEANOUTS AND ESCUTCHEON	
	SUPPLY	Z-8804-LR-PC-XL "ZURN" CHROME PLATED BRASS ANGLE STOPS AND 12" FLEXIBLE CHROME PLATED COPPER RISERS.	
	CARRIER	ZURN WALL CARRIER	
P-3	SINK	CR2522 "ELKAY" 25" X 22" STAINLESS STEEL SINK	
	FAUCET	Z831B4-XL "ZURN" GOOSENECK SPOUT WITH WIDE SPREAD WRISTE BLADE HANDLES	
	DRAIN	Z8741-SS "ZURN" STAINLESS STEEL BASKET STRAINER	
	P-TRAP	Z-8702-PC "ZURN" 1-1/2" CHROME PLATED CAST BRASS, 17 GA. DIE CAST NUTS, CLEANOUTS AND ESCUTCHEON	
	SUPPLY	Z-8804-LR-PC-20-XL "ZURN" CHROME PLATED BRASS ANGLE STOPS AND 20" FLEXIBLE CHROME PLATED COPPER RISERS.	

P-4	SHOWER (H.C.)	G3698BF "AQUARIUS", 36"x36" I.D. (39"x39-1/2" O.D.) ONE PIECE FIBERGLASS REINFORCED GEL COAT SHOWER, WHITE, CENTER OUTLET, CURTAIN ROD, VINYL SHOWER CURTAIN AND HOOKS, FOLD UP SEAT	
	SHOWER VALVE	S-96-300-830-X-L-V PRESSURE BALANCING CONTROL VALVE ADJUSTABLE TEMPERATURE. LIMIT STOP AND HANDHELD SHOWER WITH ADJUSTABLE SLIDING WALL BAR, 1.5 GPM.	
	FLOOR DRAIN	Z-415B "ZURN" FLOOR DRAIN DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH STRAINER.	

P-5	WATER COOLER(H.C.)	VRCHDTL8SC "ELKAY" WALL HUNG, SPLIT LEVEL TWIN UNIT VANDAL RESISTANT WITH 14GA STAINLESS STEEL MOUNT CENTERLINE NOZZLE 36" A.F.F. FOR LOWER UNIT	
	P-TRAP	Z-8700-PC "ZURN" 1-1/4" CHROME PLATED CAST BRASS, 17 GAUGE DIE CAST NUTS, CLEANOUT, AND ESCUTCHEON.	
	SUPPLY	Z8804-LRLKA-PC "ZURN" CHROME PLATED BRASS ANGLE STOP AND 12" CHROME PLATED COPPER RISERS.	
	CARRIER	ZURN WALL CARRIER	
P-6	SERVICE BASIN	ZURN Z 5850 28"x28"x12" T-35 STERN WILLIAMS 36" RUNNER HOSE AND BRACKET Z843M1-XL WITH VACUUM BREAKER, INTEGRAL STOPS AND PAIL HOOK BRADLEY 559-4008 MIXING VALVE	

P-7	ROOF DRAIN	ZURN Z164 12" COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH LOW SILHOUETTE DOMES AND DOUBLE TOP-SET DECK PLATE.	
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P-8	REFRIGERATOR/ICE MAKER	CONNECTION ONLY WITH OATEY ICE MAKER OUTLET BOX. REFRIGERATOR PROVIDED BY OTHERS.	
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P-9	FLOOR DRAIN	ZURN Z415B DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET. WITH STRAINER AND GREEN TRAP SEAL.	
P-10	DOWNSPOUT	ZF199 "ZURN" DOWNSPOUT	

NOTE: HANDICAPPED UNITS TO BE MOUNTED CONFORMING TO CURRENT A.D.A. GUIDELINES FOR ACCESSIBILITY
NOTE: PROVIDE INSTITUTIONAL A.D.A. COMPLIANT INSULATORS FOR EXPOSED WASTE, HOT AND COLD WATER PIPES.
HOT AND COLD WATER STOP/SUPPLIES AND TRAP INSULATOR KIT BY ZURN INDUSTRIES, INC.



MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES
BUILDING

PLUMBING NOTES, SCHEDULES & SPECIFICATION

No.	Date	Purpose of Document Issue
1	11-17-2023	ADDENDUM NO. 2
2	12/01/2023	ADDENDUM NO. 4

Designed	RB
Drawn	RB
Checked	RB
Date	10/11/2023

Project No.	16910
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Sheet No.	P001
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Designed	RB
Drawn	RB
Checked	RB
Date	10/11/2023

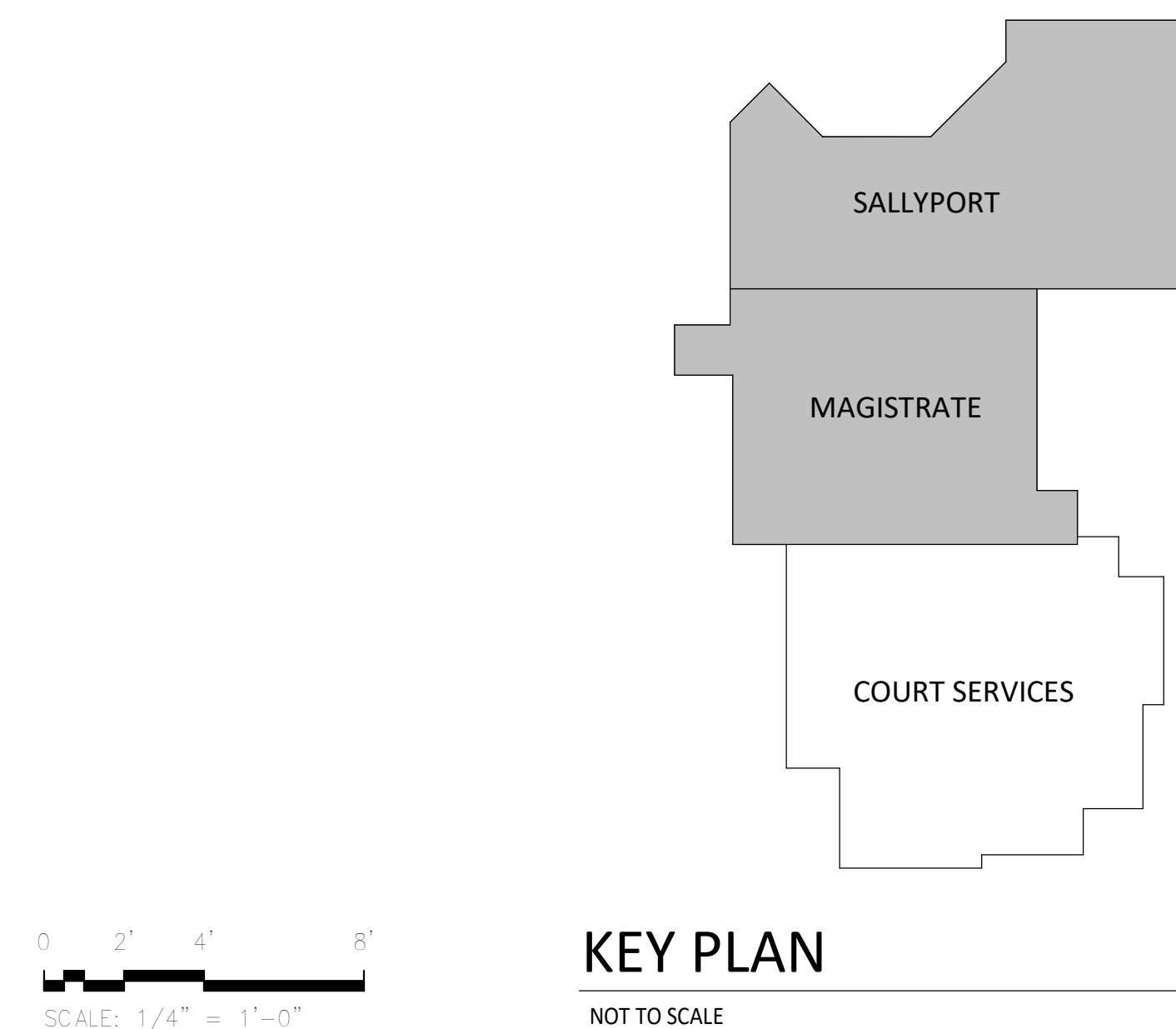
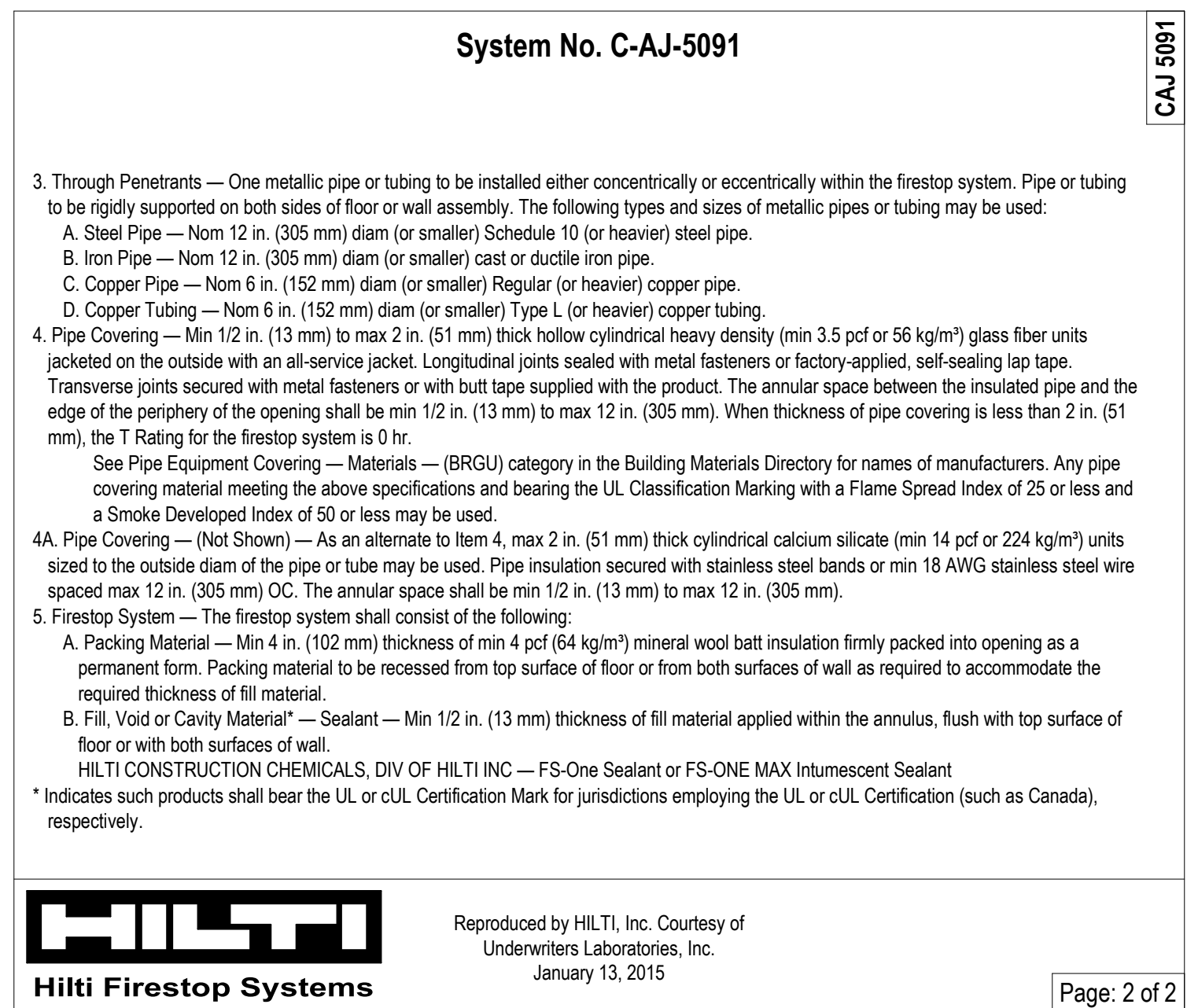


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& LITTON

Sheet No.

P101



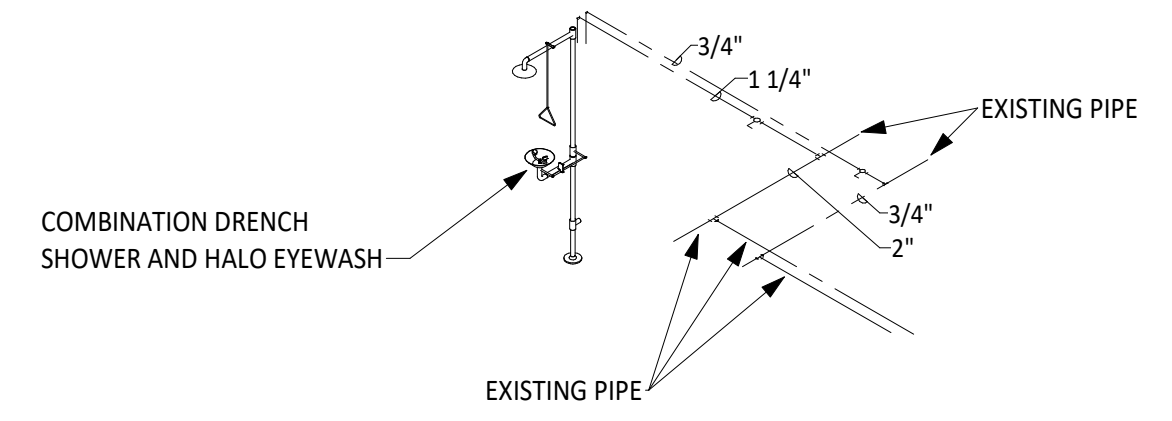
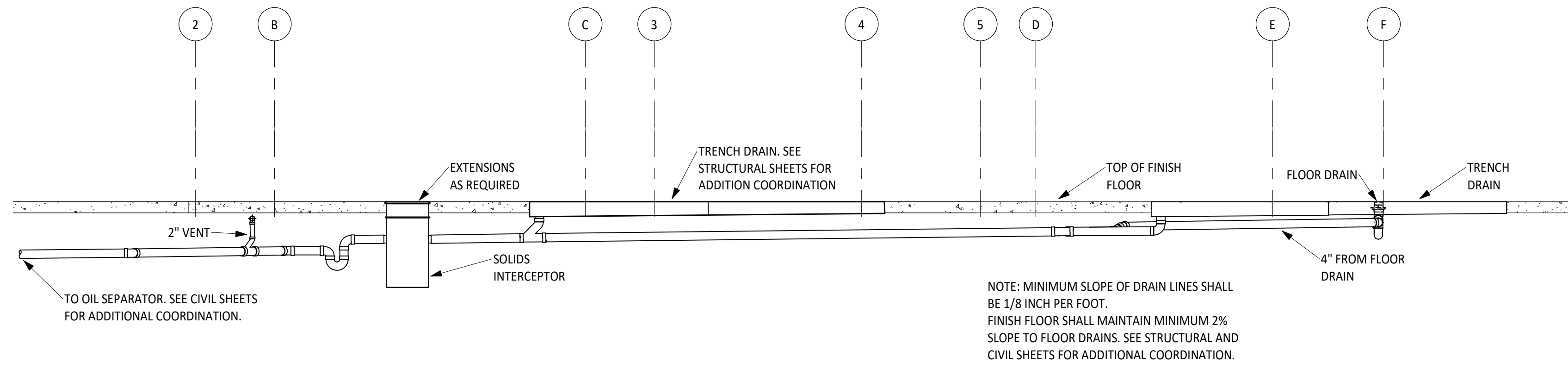


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P106

SALLYPORT TRENCH DRAIN SYSTEM DETAIL

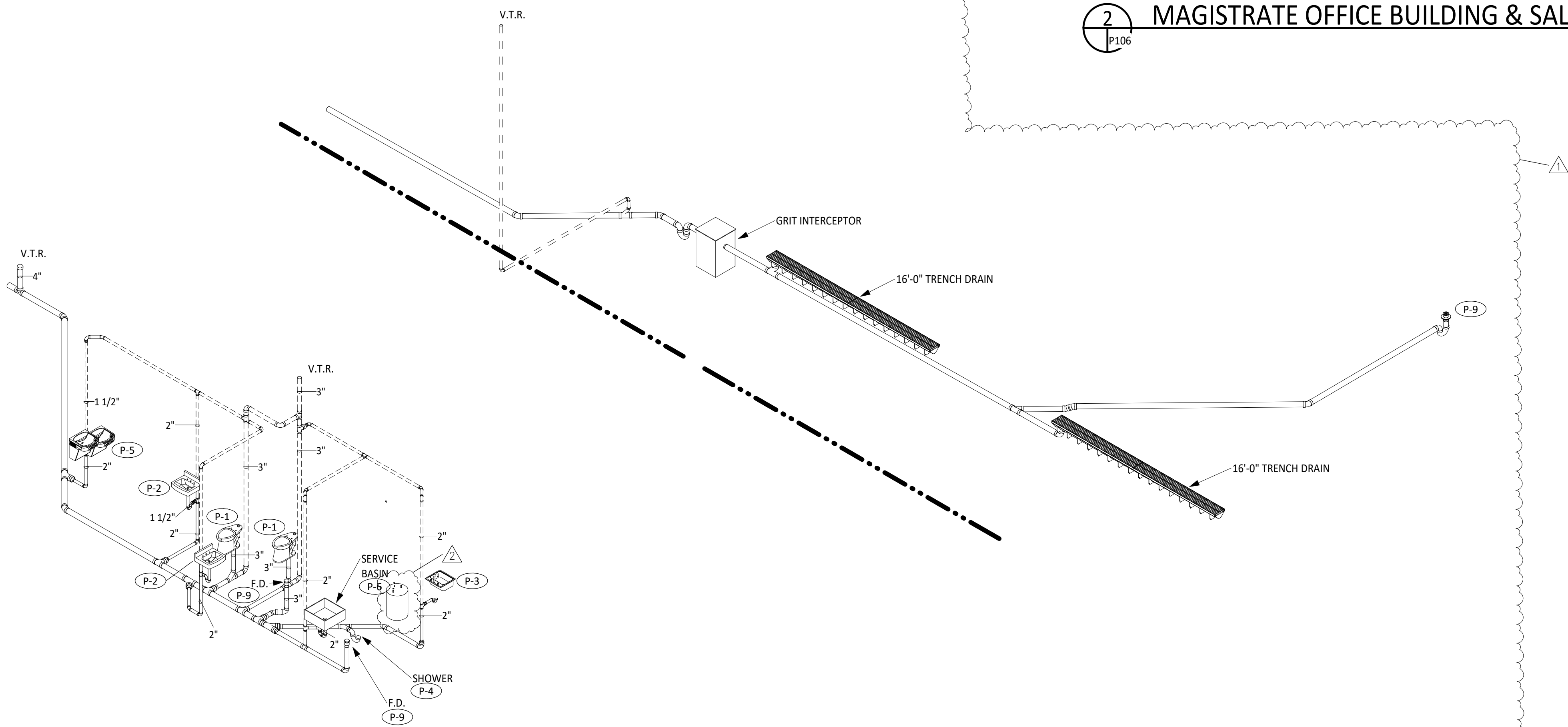
1/4" = 1'-0"



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P106

MAGISTRATE OFFICE BUILDING & SALLYPORT WATER PIPING DIAGRAM

WALL TYPE LINE LEGEND
- - - SMOKE BARRIER
- . - 1-HOUR FIRE BARRIER
- - - 2-HOUR FIRE BARRIER

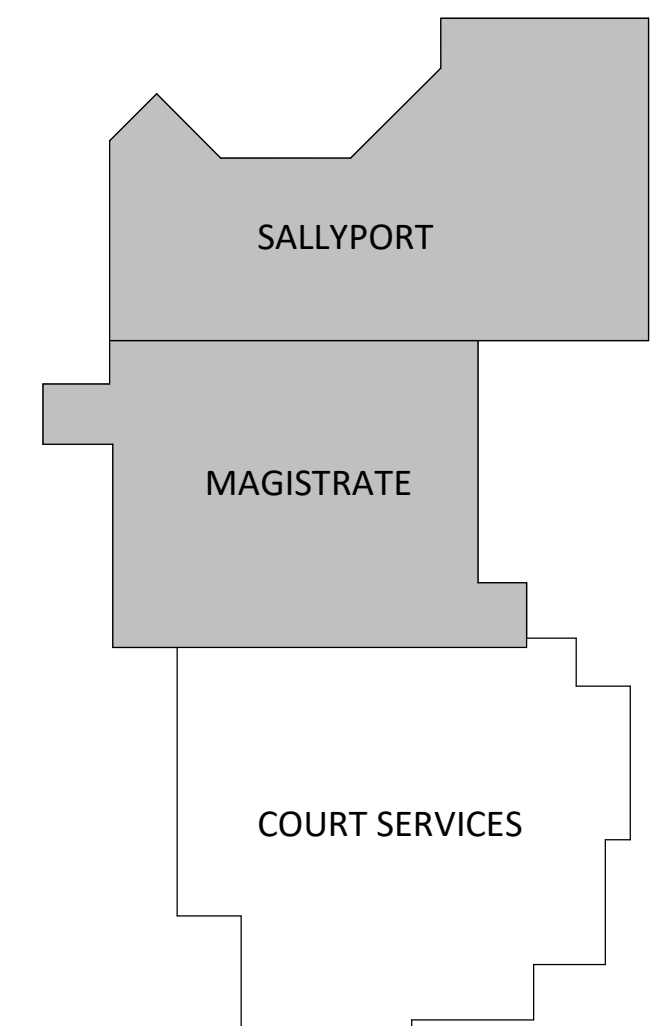


NOTE: PROVIDE GREEN TRAP SEALS IN LIEU OF TRAP PRIMERS FOR ALL RELATED FIXTURES.

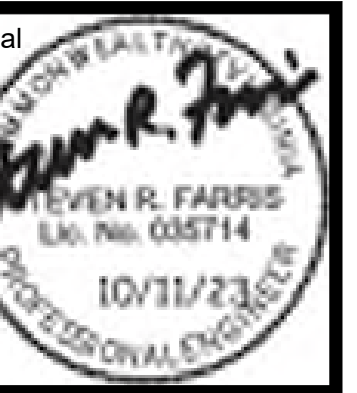
NOT TO SCALE

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P106

MAGISTRATE OFFICE BUILDING & SALLYPORT SANITARY & VENT PIPING DIAGRAM



KEY PLAN
NOT TO SCALE



**MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES
BUILDING**
**MAGISTRATES OFFICE BUILDING AND SALLYPORT PIPING
DIAGRAMS**

No.	Date	Purpose of Document Issue
1	11-17-2023	ADDENDUM NO. 2
2	12/01/2023	ADDENDUM NO. 4

Designed	RB
Drawn	RB
Checked	RB
Date	10/11/2023

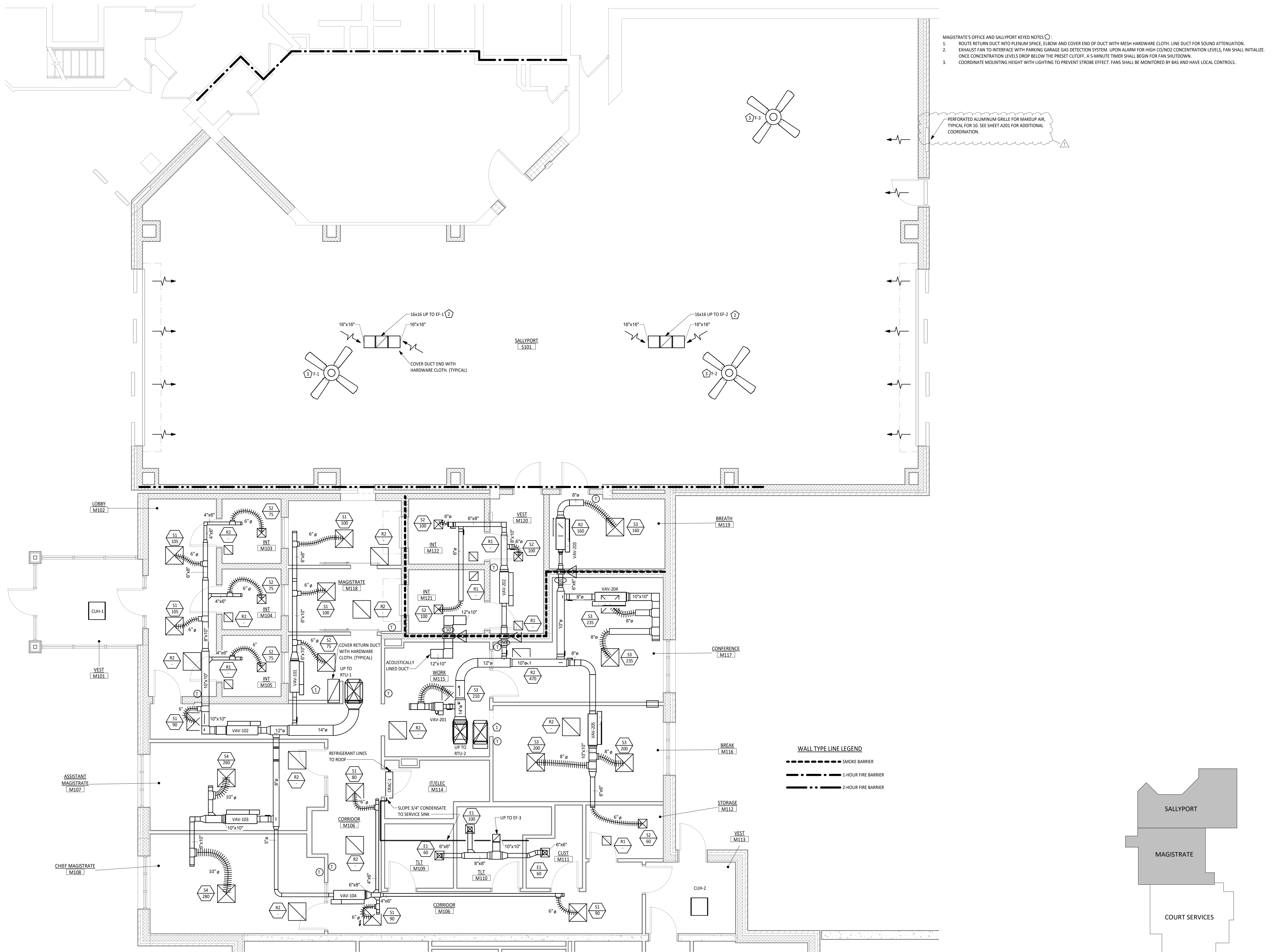
Project No.
16910



Sheet No.

P106

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- MAGISTRATE'S OFFICE AND SALLYPORT KEYED NOTES:
1. ROUTE RETURN DUCT INTO PLENUM SPACE, ELBOW AND COVER END OF DUCT WITH MESH HARDWARE CLOTH. LINE DUCT FOR SOUND ATTENUATION.
 2. EXHAUST FAN TO INTERFACE WITH PARKING GARAGE GAS DETECTION SYSTEM. UPON ALARM FOR HIGH CO/NO2 CONCENTRATION LEVELS, FAN SHALL INITIALIZE. ONCE CONCENTRATION LEVELS DROP BELOW THE PRESET CUTOFF, A 5-MINUTE TIMER SHALL BEGIN FOR FAN SHUTDOWN.
 3. COORDINATE MOUNTING HEIGHT WITH LIGHTING TO PREVENT STROBE EFFECT. FANS SHALL BE MONITORED BY BAS AND HAVE LOCAL CONTROLS.

PERFORATED ALUMINUM GRILLE FOR MAKEUP AIR, TYPICAL FOR 10. SEE SHEET A201 FOR ADDITIONAL COORDINATION.

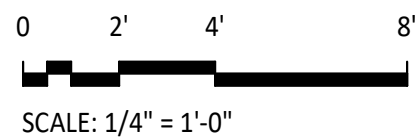
WALL TYPE LINE LEGEND

- SMOKE BARRIER
- - - 1-HOUR FIRE BARRIER
- . - 2-HOUR FIRE BARRIER



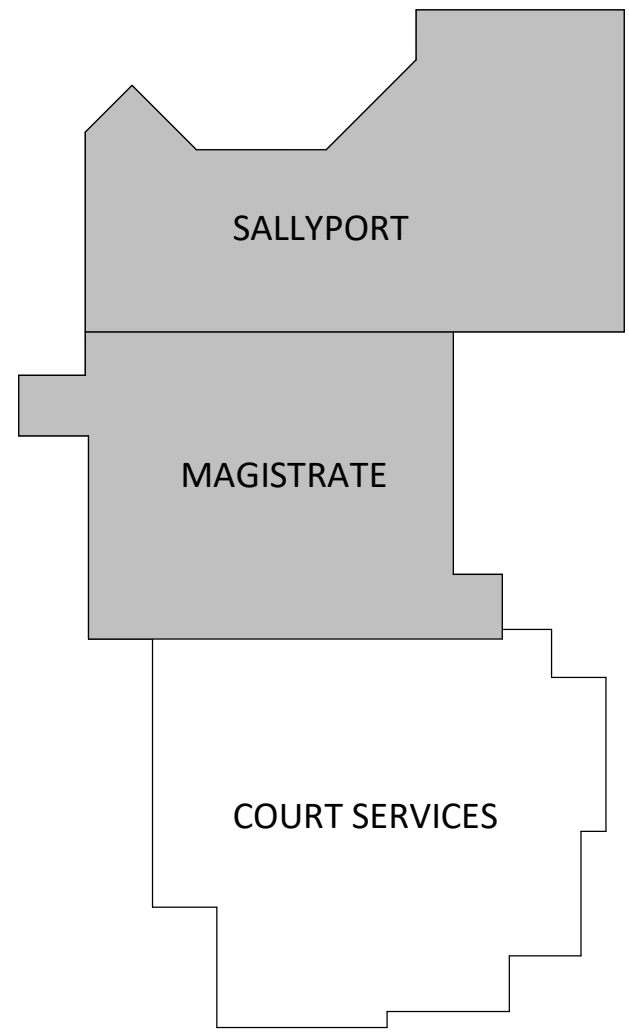
MAGISTRATE'S OFFICE & SALLYPORT HVAC FLOOR PLAN

1/4" = 1'-0"



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

KEY PLAN



MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING

MAGISTRATE'S OFFICE & SALLYPORT - HVAC PLAN

No. 1 Date 12/01/2023 ADDENDUM NO. 4 Purpose of Document Issue

Designed IT
Drawn GW
Checked SF
Date 10/11/2023

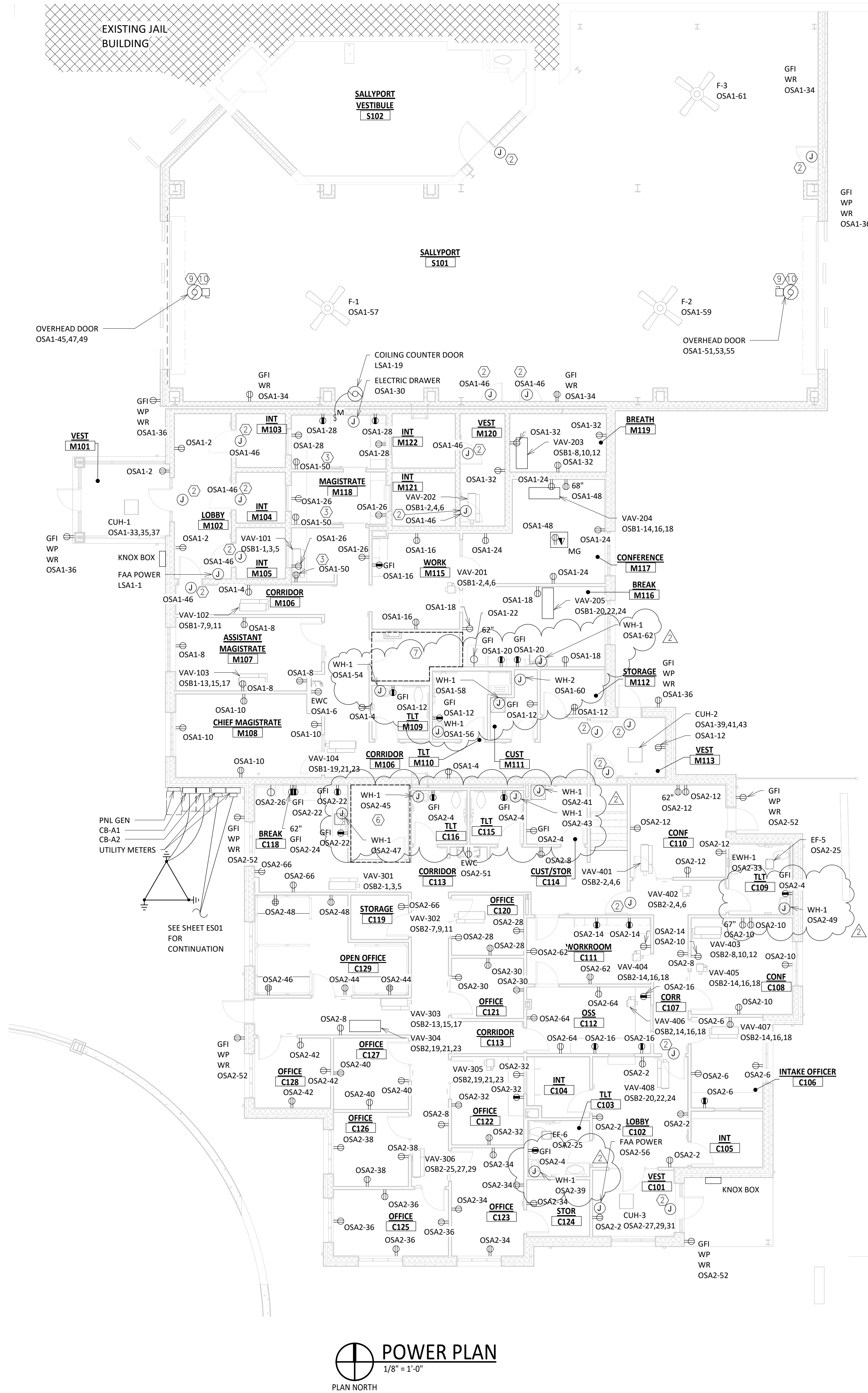
Project No. 16910



Sheet No.

M101

ABBREVIATIONS	
A, AMP	AMPERE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
CB	CIRCUIT BREAKER
CTV	CLOSED CIRCUIT TELEVISION
CKT	CIRCUIT
CR	CONTROL RELAY
CRT	CATHODE RAY TUBE
CT	CURRENT TRANSFORMER
CTB	CABLE TAP BOX
CTR	CURRENT RELAY
CU	COPPER
DDC	DIRECT DIGITAL CONTROL PANEL
DETD	DUAL ELEMENT TIME DELAY
DPS	DOOR POSITION SWITCH
EC	ELECTRIC CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EF	EXHAUST FAN
EM	EMERGENCY
EP	ELECTRIC PNEUMATIC
EHU	EXISTING TO BE RELOCATED
EWH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EW	ELECTRIC WATER HEATER
EX	EXISTING TO REMAIN
FA	FIRE ALARM
FP	FREEZE PROTECTION
FR	FAN RELAY
FT	FEET
GEC	GROUND ELECTRODE CONDUCTOR
GFP	GROUND FAULT EQUIPMENT PROTECTION
	CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GND, G	GROUND
HID	HIGH INTENSITY DISCHARGE
HP-1	HEAT PUMP
HSP	HORSEPOWER
HSH	HAND STARTER WITH PILOT LIGHT
HVAC	HEATING, VENTILATION AND AIR CONDITIONING
LA	LIGHTNING ARRESTOR
IGA	ISOLATED GROUND
JB	JUNCTION BOX
KV	KILOVOLT AMPERE
KW	KILOWATT
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUG ONLY
MM	MILLIMETER
MSBD	MAIN SWITCHBOARD
N	NEUTRAL
NEC	NATIONAL ELECTRICAL CODE
NF	NON-FUSED
NEMA	NATIONAL ELECTRICAL MANUF. ASSOC.
NL	NIGHT LIGHT
OL	OVERLOAD
PB	PUSHBUTTON MOMENTARY CONTACT SWITCH
PE	PHOTOELECTRIC CELL
PNL	PANEL
RAIL	REMOTE ALARM INDICATOR LIGHT
REC	RECESSED
RGS	RIGID GALVANIZED STEEL CONDUIT
RHC	REHEAT COIL
RTU	ROOF TOP UNIT
SUR	SURFACE
SV	SOLENOID VALVE
SWBD	SWITCHBOARD
TBB	TELECOMMUNICATIONS BACK BOARD
TC	TIME CLOCK
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
TW	TEST WELL
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SUPPLY
V	VOLT
WC	WATER COOLER
WG	WIRE GUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER
XP	EXPLOSION PROOF



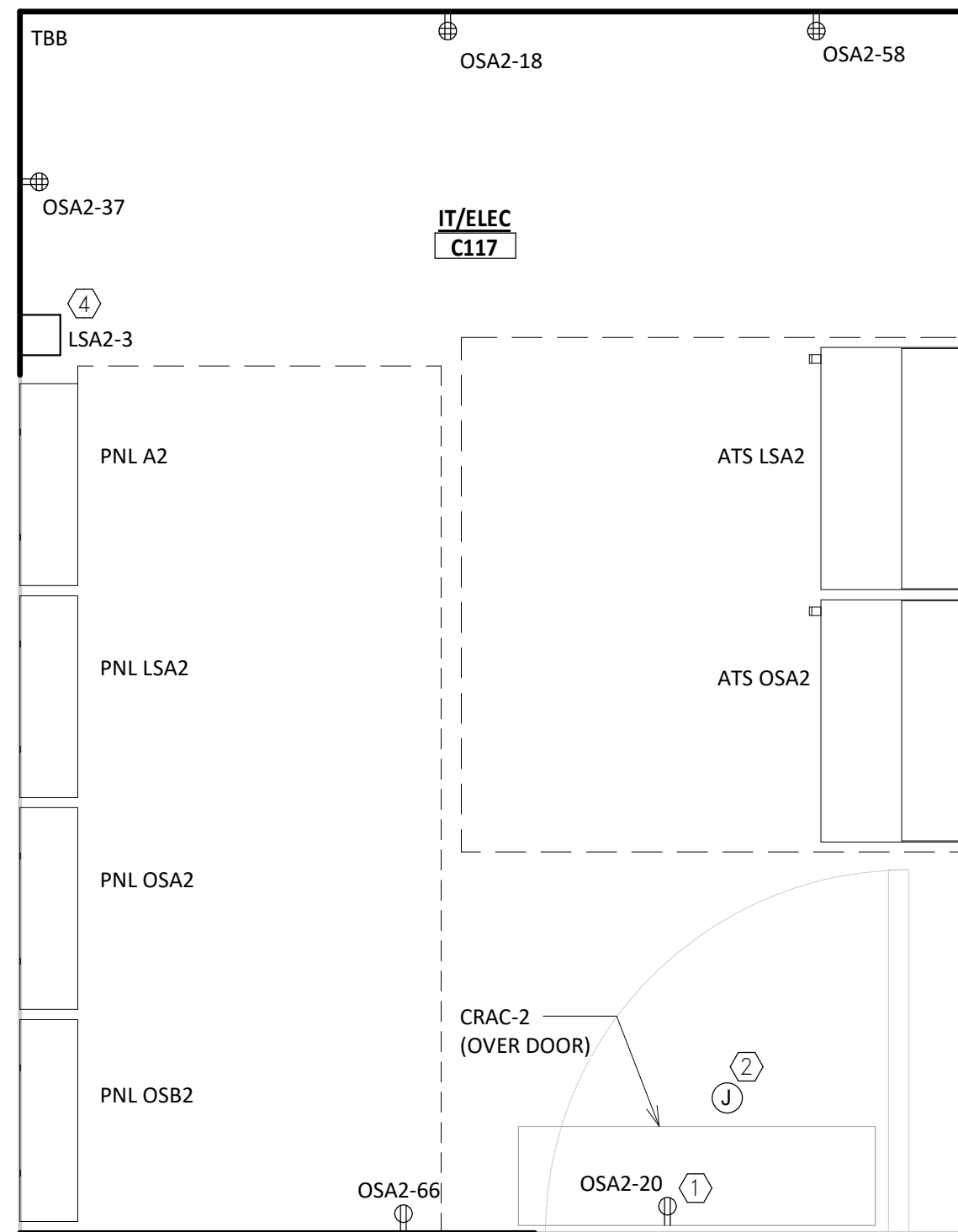
POWER PLAN - ENLARGED IT/ELEC M114
3/4" = 1'-0"



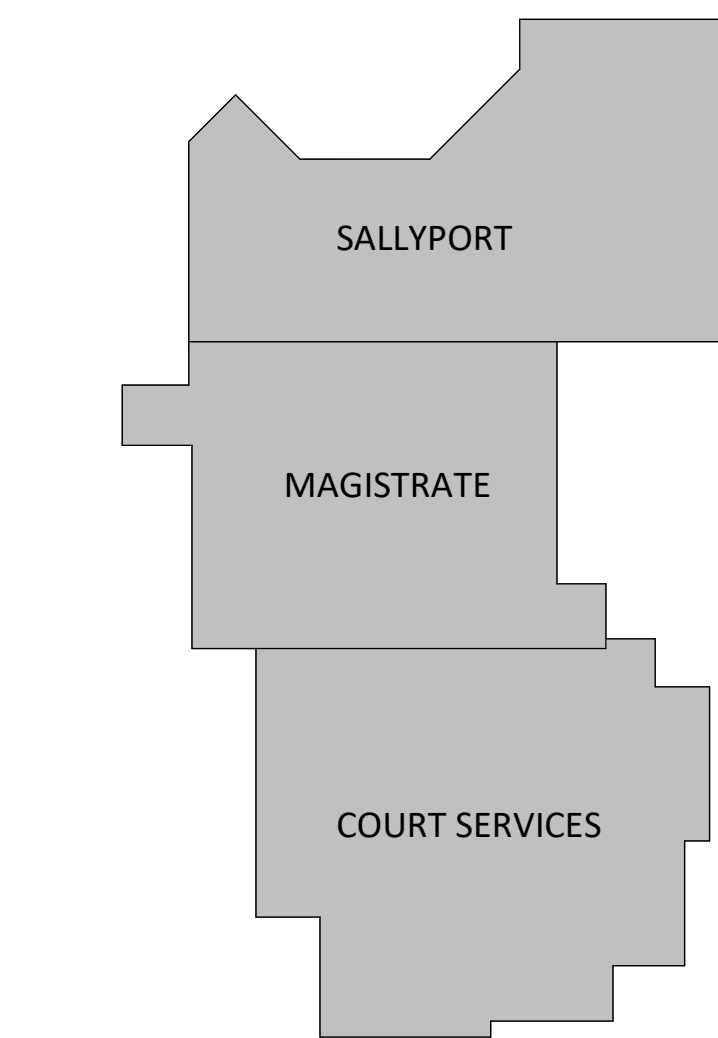
POWER PLAN ROOF
1/8" = 1'-0"

- SHEET KEYED NOTES:**
- PROVIDE RECEPTACLE ADJACENT TO MECHANICAL UNIT FOR CONDENSATE PUMP. CIRCUIT AS INDICATED.
 - PROVIDE POWER FOR POE NETWORK BOARD ABOVE ACCESSIBLE CEILING FOR ACCESS CONTROL. POE NETWORK BOARD BY OTHERS PER SPECIFICATION SECTION 01 2100. WHERE NO ACCESS CEILING EXISTS, WALL MOUNT 12" ABOVE DOOR ON SECURE SIDE. COORDINATE CLEARANCE AND ACCESS WITH CRAC LOCATION.
 - RECEPTACLE POWERING MONITOR/VIDEO SYSTEM FOR ADJACENT INTERVIEW ROOM. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. MOUNT ADJACENT TO DATA OUTLET.
 - REMOTE GENERATOR ANNUNCIATOR WITH EMERGENCY STOP. CIRCUIT AS INDICATED. COORDINATE FINAL LOCATION WITH OWNER.
 - SEE MAINTENANCE RECEPTACLE MOUNTING DETAIL ON SHEET E501 MOUNTING INFORMATION.
 - SEE POWER PLAN - ENLARGED IT/ELEC C117 THIS SHEET.
 - SEE POWER PLAN - ENLARGED IT/ELEC M114 THIS SHEET.
 - PROVIDE 3/4" C STUBBED THROUGH ROOF AND CAPPED FOR FUTURE CAMERA.
 - INTERLOCK GARAGE DOOR ACCESS CONTROLS SO ONLY ONE GARAGE DOOR WILL BE ALLOWED TO OPEN AT A TIME.
 - GARAGE DOOR SHALL BE OPERATED ONLY BY THE JAIL CONTROL ROOM VIA PUSH BUTTON.

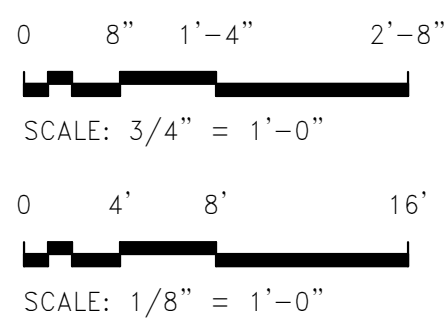
- GENERAL SHEET NOTES:**
- FLOOR BOXES SHOWN ON BOTH POWER AND COMMUNICATION SHEETS IN SAME LOCATIONS ARE THE SAME SINGLE FLOOR BOX WITH REQUIRED DIVIDERS.
 - PROVIDE CONTINUOUS TBB ON WALLS WHERE INDICATED IN IT/ELEC ROOMS. SEE LEGEND FOR SPECIFIC MOUNTING HEIGHTS AND TBB REQUIREMENTS
 - SEE ARCHITECTURE SHEETS FOR KNOX BOX REQUIREMENTS.
 - SWITCHES AND RECEPTACLES LOCATED WITHIN THE TYPE D WALLS SHALL BE WRAPPED WITH 1/2" BALLISTIC FIBERGLASS PANELS ON ALL SIDES. SEE ARCHITECTURAL SHEET FOR MORE INFORMATION REGARDING WALL TYPES.



POWER PLAN - ENLARGED IT/ELEC C117
3/4" = 1'-0"



KEY PLAN
NTS



Seal

COMMONWEALTH OF VIRGINIA

RUSSELL ANDERSON

Lic. No. 42449

10-11-2023

PROFESSIONAL ENGINEER

MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING

POWER PLAN

No.	2
Date	12/01/2023
ADDENDUM NO.	4
Purpose of Document Issue	

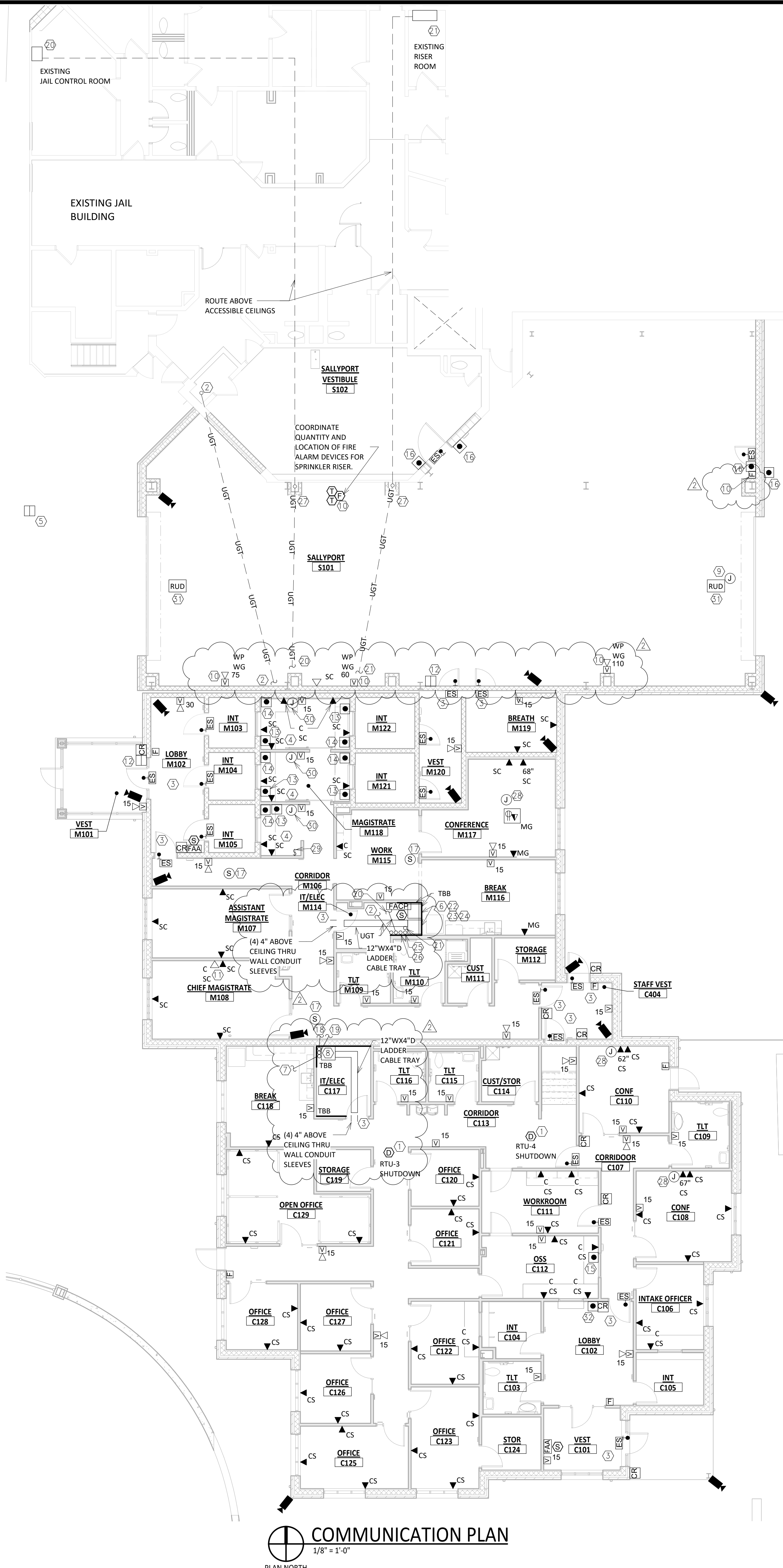
Designed	TKR
Drawn	TKR
Checked	RMA
Date	10/11/2023

Project No.
16910

THOMPSON & LITTON

Sheet No.
E201

File Name: C:\Users\aron_craig\Documents\16910 MC Magistrate-Court Services ELEC_arajid.lsk9d.rvt Date/Time: 11/28/2023 10:23:15 PM



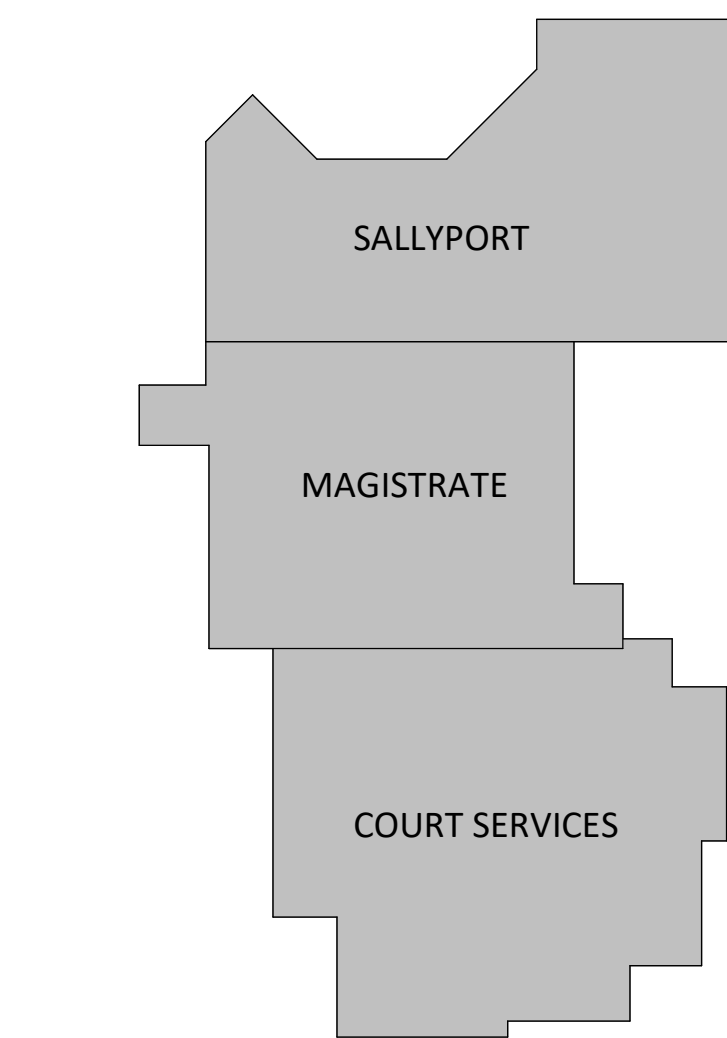
COMMUNICATION PLAN
1/8" = 1'-0"

SHEET KEYED NOTES:

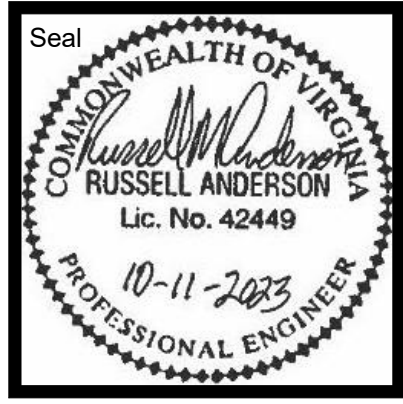
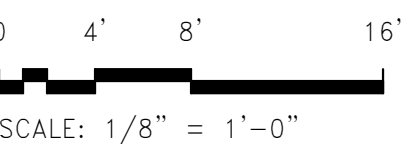
1. PROVIDE A DUCT SMOKE DETECTOR IN THE RETURN AND SUPPLY DUCT SERVING THIS AREA FOR HVAC UNIT SHUTDOWN.
2. PROVIDE SPARE 4"C WITH PULL CORD UNDERGROUND FROM IT/ELEC M114 TO EXISTING BUILDING, STUB-UP AND CAP FOR FUTURE EXPANSIONS.
3. DOOR TO REMAIN SECURE UPON FIRE ALARM ACTIVATION OR LOSS OF POWER.
4. DATA OUTLET FOR MONITOR/VIDEO SYSTEM FOR ADJACENT INTERVIEW ROOM. COORDINATE FINAL LOCATION AND MOUNTING HEIGHT WITH OWNER. MOUNT ADJACENT TO POWER RECEPTACLE.
5. PROVIDE (1) 1" C WITH PULL CORD TO INTERCOM PEDESTAL FOR PLC INTERCOM. ROUTE 1"C WITH PULL CORD TO EXISTING CONTROL ROOM IN EXISTING JAIL CONTROL ROOM. SEE SHEET ES01 INTERCOM PEDESTAL DETAIL FOR MORE INFORMATION. CABLING AND DEVICES BY OTHERS.
6. FULL FLOOR MOUNTED IT RACKS FOR SUPREME COURT (SC) AND MAGISTRATE (MG). NETWORKS SHALL REMAIN SEPARATED.
7. COMMUNICATION SERVICE CONDUIT, SEE SITE PLAN FOR CONTINUATION.
8. FULL FLOOR MOUNTED IT RACK FOR COURT SERVICES.
9. PROVIDE 3/4" C TO VEHICLE PROBE DETECTOR FOR OVERHEAD DOOR CONTROLS. SEE SHEET ES01 VEHICLE PROBE DETECTOR DETAIL FOR MORE INFORMATION. OVERHEAD DOOR IS CONTROLLED BY THE EXISTING JAIL CONTROL ROOM.
10. PROVIDE FIRE ALARM MONITORING FOR SPRINKLER DRY PIPE SYSTEM EXPANSION AND FIRE ALARM DEVICES FROM EXISTING JAIL BUILDING FIRE ALARM SYSTEM.
11. PROVIDE 4" C TO CHIEF MAGISTRATE OFFICE M108 FOR INTERCOM FEED FROM VEST M101 LOCATION. ROUTE CONDUIT BACK TO IT RACK IN ROOM IT/ELEC M114.
12. PROVIDE ROUGH-IN WITH CONDUIT AND SINGLE GANG JUNCTION BOX FOR PAXTON INTERCOM DEVICE, 48" TO CENTER. CONDUIT SHALL BE ROUTED TO ROOM IT/ELEC M114 AND CONTROLLED FROM M118 A,B, AND C.
13. PROVIDE DURESS/PANIC BUTTON ROUGH-IN WITH CONDUIT AND SINGLE GANG JUNCTION BOX IN AREAS INDICATED AT A HEIGHT OF 26" AFF. FINAL LOCATION SHALL BE COORDINATED WITH OWNER. ROUTE CONDUIT FROM ROOM IT/ELEC M114.
14. PUSH BUTTON FOR CONTROL OF INTERVIEW ROOM DOOR. PROVIDE ROUGH-IN CONDUIT AND SINGLE GANG JUNCTION BOX. ROUTE CONDUIT FROM ROOM IT/ELEC M114.
15. PUSH BUTTON FOR CONTROL OF LOBBY C102 DOOR. PROVIDE ROUGH-IN CONDUIT AND SINGLE GANG JUNCTION BOX. ROUTE CONDUIT FROM ROOM IT/ELEC M114.
16. PROVIDE ROUGH-IN WITH CONDUIT AND SINGLE GANG JUNCTION BOX FOR INTERCOM PUSH BUTTON FOR BUZZER LOCK SYSTEM. MOUNT AT 48" AFF. CONDUIT SHALL BE ROUTED TO EXISTING JAIL CONTROL ROOM.
17. PROVIDE ROUGH-IN WITH 1" CONDUIT AND SINGLE GANG JUNCTION BOX FOR ACTION DEVICE FOR ALERTS WHEN INCOMING NOTIFICATION OCCURS FROM PAXTON INTERCOM DEVICES. COORDINATE ALL REQUIREMENTS WITH OWNER'S SECURITY VENDOR. ROUTE CONDUIT TO PAXTON INTERCOM HEADEND EQUIPMENT IN ROOM IT/ELEC M114.
18. PROVIDE 4" C TO IT/ELEC M114 WITH PULL CORD.
19. PROVIDE 1" C TO IT/ELEC M114 WITH 24 STRAND SINGLE MODE FIBER. TERMINATION BY OTHERS.
20. PROVIDE 1 1/2" C TO EXISTING IT RACK IN JAIL CONTROL ROOM WITH 24 STRAND SINGLE MODE FIBER. TERMINATION BY OTHERS.
21. PROVIDE 6 STRAND FIBER FROM IT/ELEC M114 TO EXISTING VIDEO CABINET IN JAIL RISER ROOM. PROVIDE 2 FIBERS FOR PLC FOR DURESS PLC. PROVIDE 2 FIBERS FOR VIDEO. COORDINATE REMAINING STRANDS WITH OWNER'S SECURITY VENDOR. CABLES TO BE TERMINATED BY OWNER/OWNER'S SECURITY VENDOR.
22. OWNER'S SECURITY VENDOR TO PROVIDE PLC FOR DURESS TO REPORT TO JAIL CONTROL AND INSTALL IN RACK.
23. OWNER'S SECURITY VENDOR TO PROVIDE 24 PORT POE NETWORK SWITCH AND UPS FOR CAMERAS AND INSTALL IN RACK. COORDINATE LOCATION WITH OWNER'S SECURITY VENDOR.
24. OWNER'S SECURITY VENDOR TO PROVIDE 24 PORT POE NETWORK SWITCH AND UPS FOR CARD ACCESS AND INSTALL IN RACK. COORDINATE LOCATION WITH OWNER'S SECURITY VENDOR.
25. 4" CONDUIT FROM IT/ELEC C117 WITH PULL CORD.
26. 1" CONDUIT WITH 24 STRAND SINGLE MODE FIBER FROM IT/ELEC C117. CABLES TO BE TERMINATED BY OWNER/OWNER'S SECURITY VENDOR.
27. ROUTE CONDUIT VERTICAL ON COLUMNS TO ABOVE EXISTING CEILING.
28. PROVIDE 3/4" C WITH PULL CORD DOWN FROM ACCESSIBLE CEILING FOR FUTURE USE TO EMPTY RECESSED 4" SQUARE JUNCTION BOX AT A HEIGHT OF 68". LOCATE EMPTY 4" SQUARE JUNCTION BOX CONCEALED BEHIND TV.
29. PROVIDE ROUGH-IN WITH 1" CONDUIT AND SINGLE GANG JUNCTION BOX FOR TOGGLE SWITCH FOR THE ENABLING AND DISABLING CALL IN SOUNDERS. ROUTE CONDUIT TO PAXTON HEADEND EQUIPMENT IN ROOM IT/ELEC M114.
30. PROVIDE ROUGH-IN FOR PAXTON ENTRY PREMIUM MONITOR. COORDINATE LOCATION AND HEIGHT WITH SECURITY PROVIDER. PROVIDE 1" CONDUIT WITH PULL CORD BACK TO PAXTON HEADEND EQUIPMENT IN ROOM IT/ELEC M114 AND SINGLE GANG JUNCTION BOX. PAXTON PREMIUM ENTRY MONITORS SHALL CONTROL PAXTON INTERCOM DEVICES.
31. ROLL UP DOOR (RUD) SHALL BE CONTROLLED BY JAIL CONTROL ROOM. ROUTE 1" CONTROL CONDUIT BACK TO EXISTING JAIL CONTROL ROOM. DOOR ROLL UP DOOR SHALL BE OPERATED BY PUSH BUTTON.
32. PROVIDE ROUGH-IN WITH CONDUIT AND SINGLE GANG JUNCTION BOX FOR INTERCOM PUSH BUTTON FOR BUZZER LOCK SYSTEM. MOUNT AT 48" AFF. SYSTEM PROVIDED BY OWNER'S SECURITY VENDOR. TO BE CONTROLLED BY PUSH BUTTON LOCATED IN ROOM OSS C112.

GENERAL SHEET NOTES:

1. FLOOR BOXES SHOWN ON BOTH POWER AND COMMUNICATION SHEETS IN SAME LOCATIONS ARE THE SAME SINGLE FLOOR BOX WITH REQUIRED DIVIDERS.
2. SECURED NETWORK THROUGH SUPREME COURT SHALL BE SEPARATED FROM REGULAR NETWORK IN MAGISTRATE AND COURT SERVICE AREAS.
3. FIRE ALARM OR DATA DEVICES LOCATED WITHIN THE TYPE D WALLS SHALL BE WRAPPED WITH 1/2" BALLISTIC FIBERGLASS PANELS ON ALL SIDES. SEE ARCHITECTURAL SHEET FOR MORE INFORMATION REGARDING WALL TYPES.
4. SEE LOW VOLTAGE RESPONSIBILITY MATRIX ON SHEET E601.
5. SEE LEGEND FOR DEVICE DEFINITION FOR CONDUIT AND BOX SIZE.



KEY PLAN
NTS



MONTGOMERY COUNTY MAGISTRATE AND COURT SERVICES BUILDING
COMMUNICATIONS PLAN

No.	Date	Purpose of Document Issue
2	12/01/2023	ADDENDUM NO. 4

Designed	TKR
Drawn	TKR
Checked	RMA
Date	10/11/2023

Project No.
16910



Sheet No.
E301



Purpose of Document Issue	
ADDENDUM NO. 4	
Date	12/01/2023
No.	1

Designed	TKR
Drawn	TKR
Checked	RMA
Date	10/11/2023

Project No.
16910



Sheet No.

E602

MAGISTRATE - IT/ELEC M114										PANEL A1																													
VOLTAGE: 208 Y120					PHASE: 3					BUS AMPS: 500					X MLO																								
WIRE: 4										X MCB					X																								
															SURFACE MOUNTED																								
															FLUSH MOUNTED																								
															NEMA ENCL.: 1																								
															AIC RATING: 22K																								
CONNECTED LOAD (KVA)										CIRCUIT BREAKER																													
A			B			C			* SIZE			TRIP			P NO			P NO			P TRIP			WIRE SIZE															
PROVISIONED SPACE			33.00			1			3			1			1			2			1			1															
PROVISIONED SPACE			1			3			4			3			60			1			2.00			1															
PROVISIONED SPACE			1			5			6			3			300			1			1.00			PNL LSA1															
PROVISIONED SPACE			1			7			8			3			60			1			25.93			1															
PROVISIONED SPACE			1			9			10			3			300			1			23.52			PNL OSA1															
PROVISIONED SPACE			1			11			12			3			60			2			26.14			1															
PROVISIONED SPACE			1			13			14			3			60			2						TVSS															
PROVISIONED SPACE			1			15			16			3			60			2						1															
PROVISIONED SPACE			1			17			18			3			60			2						1															
PROVISIONED SPACE			1			19			20			3			60			2						1															
PROVISIONED SPACE			1			21			22			3			60			2						1															
PROVISIONED SPACE			1			23			24			3			60			2						1															
PROVISIONED SPACE			1			25			26			3			60			2						1															
PROVISIONED SPACE			1			27			28			3			60			2						1															
PROVISIONED SPACE			1			29			30			3			60			2						1															
LEFT SUB-TOTAL			33.00																																				
RIGHT SUB-TOTAL			27.93			24.52			27.14																														
PER PHASE TOTAL			60.93			24.52			27.14																														
PANEL TOTAL			112.59																																				
										TOTAL PANEL LOAD																													
										CONNECTED										DEMAND																			
										KVA										112.59										105.94									
										AMPS										312.5										294.06									

COURT SERVICES - IT/ELEC C117										PANEL OSA2										NEMA ENCL.: 1									
VOLTAGE: 208 Y120					PHASE: 3					BUS AMPS: 300					X MLO					X SURFACE MOUNTED					AIC RATING: 18K				
WIRE: 4					WIRE: 4					X 300 MCB					X FLUSH MOUNTED														
CONNECTED LOAD (KVA)					CIRCUIT BREAKER					WIRE					CONNECTED LOAD (KVA)					LOAD DESCRIPTION									
LOAD DESCRIPTION	A	B	C	*	SIZE	TRIP	P	NO	NO	P	TRIP	SIZE	*	A	B	C	DESCRIPTION												
LTG C113-119, C125-128	1.66				12	20	1	1	2	1	20	12		0.90			RECPT - C101-102												
LTG C120-124, C101-112	1.77				12	20	1	3	4	1	20	12		0.90			RECPT - C103,109,114-116												
LTG - EXTERIOR			0.10		12	20	1	5	6	1	20	12			0.72		RECPT - C106												
	3.65							7	8	1	20	12		0.72			RECPT - C107, C113												
RTU-3		3.65			8	50	3	9	10	1	20	12			0.90		RECPT - C108												
			3.65					11	12	1	20	12			0.90		RECPT - C110												
	3.65							13	14	1	20	12		0.36			RECPT - C111 - COUNTER												
RTU-4		3.65			8	50	3	15	16	1	20	12			0.54		RECPT - C112 - COUNTER												
			3.65					17	18	1	20	12				0.72	RECPT - C117 QUAD												
CU-2	0.92				10	30	2	19	20	1	20	12		0.25			RECPT - CONDENSATE PUMP												
EF-4		0.92			12	20	1	21	22	1	20	12		0.54			RECPT - C118 - COUNTER												
EF-5, 6	0.04				12	20	1	23	24	1	20	12			0.50		RECPT - C118 - MICROWAVE												
			0.67					25	26	1	20	12		0.50			RECPT - C118 - REFRIGERATOR												
					12	20	3	27	28	1	20	12			0.54		RECPT - C120												
CUH-3			0.67					29	30	1	20	12			0.54		RECPT - C121												
	0.67							31	32	1	20	12		0.72			RECPT - C122												
EWH-1		1.50			12	20	1	33	34	1	20	12			0.72		RECPT - C123-124												
GATE POWER/CONTROLS			0.50		12	20	1	35	36	1	20	12			0.72		RECPT - C125												
RECPT - C117 QUAD	0.72				12	20	1	37	38	1	20	12		0.54			RECPT - C126												
TANKLESS WH-1 - C103		1.80			12	20	1	39	40	1	20	12			0.54		RECPT - C127												
TANKLESS WH-1 - C114			1.80		12	20	1	41	42	1	20	12			0.54		RECPT - C128												
TANKLESS WH-1 - C115	1.80				12	20	1	43	44	1	20	12		0.90			RECPT - C129												
TANKLESS WH-1 - C116		1.80			12	20	1	45	46	1	20	12			0.72		RECPT - C129												
TANKLESS WH-1 - C118			1.80		12	20	1	47	48	1	20	12			0.90		RECPT - C129												
TANKLESS WH-1 - C109	1.80				12	20	1	49	50	1	20	12		0.50			RECPT - C113 EWC												
PROVISIONED SPACE					1	51	52	1	20	12				0.72			RECPT - EXTERIOR												
PROVISIONED SPACE					1	53	54	1	20	12				0.50			RECPT - RTU-3, RTU-4												
PROVISIONED SPACE					1	55	56	1	20	12				6.72			PROVISIONED SPACE												
PROVISIONED SPACE					1	57	58	1	20	12						0.36	RECPT - C118 QUAD												
PROVISIONED SPACE					1	59	60	1	20	12				0.54			RECPT - C118												
PROVISIONED SPACE					1	61	62	1	20	12				0.54			RECPT - C111												
PROVISIONED SPACE					1	63	64	1	20	12					0.54		RECPT - C112												
PROVISIONED SPACE					1	65	66	1	20	12					0.72		RECPT - C117-C119												
PROVISIONED SPACE								67	68					7.17															
TVSS				2		60	3	69	70	3	150		3		7.17														
								71	72								PNL OSA2												
LEFT SUB-TOTAL	14.91	15.76	12.47														TOTAL PANEL LOAD												
RIGHT SUB-TOTAL	13.10	14.55	14.29														CONNECTED												
PER PHASE TOTAL	28.00	30.30	26.76														KVA												
PANEL TOTAL			85.07														AMPS												
																	236.1												
																	175												

* NOTES: (E = EXST TO REMAIN UNO, G = GF, L = LOCKABLE, S = SHUNT TRIP)

1. PANEL IS LOCATED ON OPTIONAL STANDBY SYSTEM. PROVIDE "OPTIONAL STANDBY SYSTEM" LABEL WITH PANEL NAME.

2. PROVIDE WIRE SIZE AND LENGTH PER MANUFACTURER'S REQUIREMENTS.

3. SEE ONE - LINE FOR FEEDER SIZE.

COURT SERVICES - IT/ELEC C117										PANEL OSB2																			
VOLTAGE: 208 Y120					PHASE: 3					BUS AMPS: 225					X MLO					X SURFACE MOUNTED					NEMA ENCL.: 1				
WIRE: 4					WIRE: 3					MCB					FLUSH MOUNTED					AIC RATING: 18K									
LOAD DESCRIPTION	CONNECTED LOAD (KVA)			*	WIRE SIZE	TRIP	CIRCUIT BREAKER						WIRE SIZE	*	CONNECTED LOAD (KVA)			LOAD DESCRIPTION											
	A	B	C				P	NO	NO	P	TRIP	A			B	C													
VAV-301	0.50	-----	-----	12	15	3	1	2				12		0.67	-----	-----	VAV-401, 402												
	-----	0.50	-----				3	3	4	3	15			-----	0.67	-----													
	-----	-----	0.50				5	5	6					-----	-----	0.67													
	-----	-----	-----				7	7	8					-----	-----	-----													
VAV-302	0.50	-----	-----	12	15	3	9	10	3			12		0.83	-----	-----	VAV-403												
	-----	0.50	-----				11	11	12					-----	-----	0.83													
	-----	-----	0.50				13	13	14					-----	-----	0.83													
	-----	-----	-----				15	15	16	3	15			1.00	-----	-----													
VAV-303	0.67	-----	-----	12	15	3	15	16	3			12		1.00	-----	-----	VAV-404, 405, 406, 407												
	-----	0.67	-----				17	17	18					-----	-----	1.00													
	-----	-----	0.67				19	19	20					0.67	-----	-----													
	-----	-----	-----				21	21	22	3	15			12	0.67	-----		-----											
VAV-304, 305	1.17	-----	-----	12	15	3	23	23	24			12		0.67	-----	-----	VAV-408												
	-----	1.17	-----				25	25	26	1				-----	-----	0.67													
	-----	-----	1.17				27	27	28	1				-----	-----	-----													
	-----	-----	-----				29	29	30	1				-----	-----	-----													
VAV-306	1.17	-----	-----	12	15	3	31	31	32	1		12		-----	-----	-----	PROVISIONED SPACE												
	-----	1.17	-----				33	33	34	1				-----	-----	-----													
	-----	-----	1.17				35	35	36	1				-----	-----	-----													
	-----	-----	-----				37	37	38	1				-----	-----	-----													
PROVISIONED SPACE	-----	-----	-----	12	15	3	39	39	40	1		12		-----	-----	-----	PROVISIONED SPACE												
PROVISIONED SPACE	-----	-----	-----				41	41	42	1				-----	-----	-----													
PROVISIONED SPACE	-----	-----	-----											-----	-----	-----													
PROVISIONED SPACE	-----	-----	-----											-----	-----	-----													
TVSS	-----	-----	-----	2	60	3	41	41	42	1				-----	-----	-----	PROVISIONED SPACE												
	-----	-----	-----											-----	-----	-----													
	-----	-----	-----											-----	-----	-----													
	-----	-----	-----											-----	-----	-----													
LEFT SUB-TOTAL		4.00	4.00	4.00											TOTAL PANEL LOAD														
RIGHT SUB-TOTAL		3.17	3.17	3.17											CONNECTED		DEMAND												
PER PHASE TOTAL		7.17	7.17	7.17											KVA		24												
PANEL TOTAL		21.50													AMPS		59.7												
* NOTES: (E = EXST TO REMAIN UNO, G = GF, L = LOCKABLE, S = SHUNT TRIP)																													
1. PANEL IS LOCATED ON OPTIONAL STANDBY SYSTEM. PROVIDE "OPTIONAL STANDBY SYSTEM" LABEL WITH PANEL NAME.																													
2. PROVIDE WIRE SIZE AND LENGTH PER MANUFACTURER'S REQUIREMENTS.																													

OUTDOOR - NEAR ELECTRICAL METERS										PANEL GEN																			
VOLTAGE: 208 Y120					PHASE: 3					BUS AMPS: 1000					X MLO					X SURFACE MOUNTED					NEMA ENCL: 3R				
					WIRE: 4										X 300 MCB					FLUSH MOUNTED					AIC RATING: 18K				
LOAD DESCRIPTION	CONNECTED LOAD (KVA)			*	WIRE SIZE	TRIP	P	CIRCUIT BREAKER			WIRE SIZE	*	CONNECTED LOAD (KVA)			LOAD DESCRIPTION													
	A	B	C					NO	NO	P			A	B	C														
ATS-LSA1	-----	-----	-----	1	60	3	1	2	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----				3	4	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----				5	6	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----				7	8	1				-----	-----	-----	PROVISIONED SPACE													
ATS-OSA1	-----	-----	-----	1	300	3	9	10	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----				11	12	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----				13	14	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----				15	16	1				-----	-----	-----	PROVISIONED SPACE													
ATS-LSA2	-----	-----	-----	1	60	3	17	18	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----				19	20	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----				21	22	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----				23	24	1				-----	-----	-----	PROVISIONED SPACE													
ATS-OSA2	-----	-----	-----	1	300	3	25	26	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----				27	28	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----				29	30	1				-----	-----	-----	PROVISIONED SPACE													
	-----	-----	-----																										
PROVISIONED SPACE	-----	-----	-----				1	25	26	1			-----	-----	-----														
PROVISIONED SPACE	-----	-----	-----				1	27	28	1	3	60	1	-----	-----	TVSS													
PROVISIONED SPACE	-----	-----	-----				1	29	30					-----	-----														
LEFT SUB-TOTAL	-----	-----	-----																										
RIGHT SUB-TOTAL	-----	-----	-----																										
PER PHASE TOTAL	-----	-----	-----																										
PANEL TOTAL	-----	-----	-----																										
* NOTES: (E = EXST TO REMAIN UNO, G = GF, L = LOCKAKE, S = SHUNT TRIP)																													
1. SEE ONE - LINE FOR FEEDER SIZE.																													