

ADDENDUM NO: 2
PROJECT NAME: Benton County Detention Center
PROJECT ADDRESS: 1300 SW 14th St., Bentonville, AR
PROJECT NO: 2404

DATE: 07.09.2024
HIGHT JACKSON ASSOCIATES
ROGERS, AR
ARCHITECTS AND PLANNERS

Contractor shall attach this and other addenda to the specifications and they shall be considered a part thereof. Where changes are required by this addendum, they shall nullify any conflicting specifications as may be affected.

ARCHITECTURAL

Item No. 1: **Refer to sheet A0.0:**

- a) Sheets A1.2A and A1.2B have been added to sheet index.

Item No. 2: **Refer to sheet A1.1:**

- a) Added note for marking and identification of rated walls.
- b) Added note to indicate 1-hour firewall near nurses' station.
- c) Revised UL number for 2-hour CMU firewall.
- d) Added note for 1-hour firewall with UL number between storage and egress hallway.
- e) Revised corridor 119 walls to be 1-hour rated, UL-U4103.

Item No. 3: **Refer to sheets A1.2A and A1.2B:**

- a) Added sheets with UL numbers and assembly descriptions.

Item No. 4: **Refer to sheet A2.1B:**

- a) Revised doors 100A, 107, 109A and 119B to door type A.
- b) Revised doors 109B, 110, 111, 112, 114, 115, 116, 117 and 118 to be 20 minutes rated type E.
- c) Revised door 113 to be 20 minutes rated.

Item No. 5: **Refer to sheet A3.1:**

- a) Revised description of door type E.

MECHANICAL

Item No. 6: **Refer to Mechanical Sheet M2.1:**

- a) Updated drawing to coordinate fire dampers with architectural firewall/partition.
- b) Add a note for signage to be added at CO/NO2 detection system locations.

ELECTRICAL

Item No. 7: **Refer to Electrical Sheet E2.1:**

- a) Added exterior wet rated exit sign and egress light.

Item No. 8: **Refer to Electrical Sheet E5.1:**

- a) Added part number for exterior wet rated exit sign to lighting fixture schedule.

END OF ADDENDUM NO. 2

-2-

A Remodel & Addition
Benton County Detention Center
Bentonville, Arkansas

HightJack50n
ASSOCIATES

A REMODEL AND ADDITION FOR

BENTON CO. DETENTION CENTER

BENTONVILLE, AR

Issue Date: 06/10/2024

Revision Date: 07/09/2024

Project No.: 2404

CIVIL ENGINEER:

HALFF
2407 SE COTTONWOOD ST #1
BENTONVILLE, AR 72712

STRUCTURAL ENGINEER:

TATUM-SMITH-WELCHER ENGINEERS
3100 S MARKET ST
SUITE 202
ROGERS, AR 72758

MECHANICAL ENGINEER:

HSA ENGINEERING
7405 ELLIS ST
FORT SMITH, AR 72916

Drawing Index

CIVIL

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- C1.2 DEMO PLAN
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- C6.1 MICELLANEOUS DETAILS
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- S3.0.1 FIRST LEVEL LINTEL, BRACING & MASONRY PLAN AREAS
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- E2.4 SPECIAL SYSTEMS PLAN
- E4.1 ELECTRICAL RISER DIAGRAMS
- ES.1 ELECTRICAL SCHEDULES

Hight Jackson

ASSOCIATES

5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A QUALITY CONTROL CHECK, INCLUDING THE APPROPRIATE COORDINATION AMONG DISCIPLINES, HAS BEEN MADE ON THIS PROJECT'S DOCUMENTS, AND CORRECTIONS RELATED TO THIS CHECK HAVE BEEN MADE. THE UNDERSIGNED PRINCIPAL/OWNER STATES THAT THESE PLANS AND SPECIFICATIONS AS SUBMITTED FOR REVIEW ARE, TO THE BEST OF HIS OR HER KNOWLEDGE AND ABILITY, COMPLETE AND READY FOR REVIEW



"I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION, I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS."



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AFPC 703.5 Marking and identification. Where there is an accessible concealed floor, floor-ceiling or attic space, fire walls, fire barriers, fire partitions, smoke barriers and smoke partitions or any other wall required to have protected openings or penetrations shall be effectively and permanently identified with signs or stenciling in the concealed space. Such identification shall: 1. Be located within 15 feet (4572 mm) of the end of each wall and at intervals not exceeding 30 feet (9144 mm) measured horizontally along the wall or partition. 2. Include lettering not less than 3 inches (76 mm) in height with a minimum 3/8-inch (9.5 mm) stroke in a contrasting color incorporating the suggested wording, "FIRE AND/OR SMOKE BARRIER— PROTECT ALL OPENINGS," or other wording.

SYMBOL LEGEND	
	1 HR FIRE BARRIER
	2 HR FIRE WALL
	DESIGNATED EXIT
X' EXIT WIDTH REQ'D	X' EXIT WIDTH REQ'D
X' EXIT WIDTH PROV'D	X' EXIT WIDTH PROV'D
	EXIT LIGHT (EX = EXIST.)
	FIRE EXTINGUISHER BOTTLE
ROOM NAME	ROOM USE, RE-- LEGEND
_ SQ. FT.	SQUARE FEET
_ OCC. LOAD	OCCUPANCY

ROOM LEGEND	
BK	DETAINEE BOOKING AND INTAKE
DR	DETAINEE DAY ROOM
HC	HOLDING CELL
I-O	INSTITUTIONAL OUTPATIENT
RR	RESTROOM
SL	DETAINEE SLEEPING AREA
ST	STORAGE
SV	VEHICULAR SALLYPORT

TYPE OF CONSTRUCTION: ADDITION AND REMODEL
 FACILITY NAME: BENTON COUNTY DETENTION CENTER
 FACILITY LOCATION:
 1300 SW 14TH ST.
 BENTONVILLE, AR 72712
 COUNTY: BENTON
 LOCAL FIRE DEPARTMENT:
 BENTONVILLE FIRE DEPARTMENT
 WATER SUPPLY:
 BENTONVILLE WATER DEPARTMENT
 LOCAL BUILDING INSPECTION DEPARTMENT:
 BENTONVILLE BUILDING INSPECTION DEPARTMENT
 APPLICABLE CODES AND REGULATIONS:
 2021 ARKANSAS FIRE PREVENTION CODE VOL. 1 & 2
 2018 ARKANSAS STATE PLUMBING CODE
 2021 ARKANSAS STATE MECHANICAL CODE
 2020 NATIONAL ELECTRIC CODE
 2018 ARKANSAS STATE FUEL GAS CODE
 2014 ARKANSAS STATE ENERGY CODE

ARCHITECT CONTACT
 HIGHT JACKSON ASSOCIATES
 LORRIE SMITH
 5201 WEST VILLAGE PARKWAY, SUITE 300
 ROGERS, AR 72758
 PHONE- (479)-464-4965

OWNER CONTACT:
 BRYAN BEESON
 FACILITIES ADMINISTRATOR
 BENTON COUNTY, A SUBDIVISION OF
 THE STATE OF ARKANSAS
 215 E CENTRAL AVE.
 BENTONVILLE, AR 72712
 PHONE - (479) 271-1096

NEW CONSTRUCTION:
 OCCUPANCY TYPE- I-3 CONDITION 4
 CONSTRUCTION TYPE- II-B
 BASIC ALLOWABLE AREA PER STORY- 30,000
 ALLOWABLE HEIGHT- 75'
 ACTUAL HEIGHT- +/- 26'
 ALLOWABLE STORIES- 2
 ACTUAL STORIES- 1

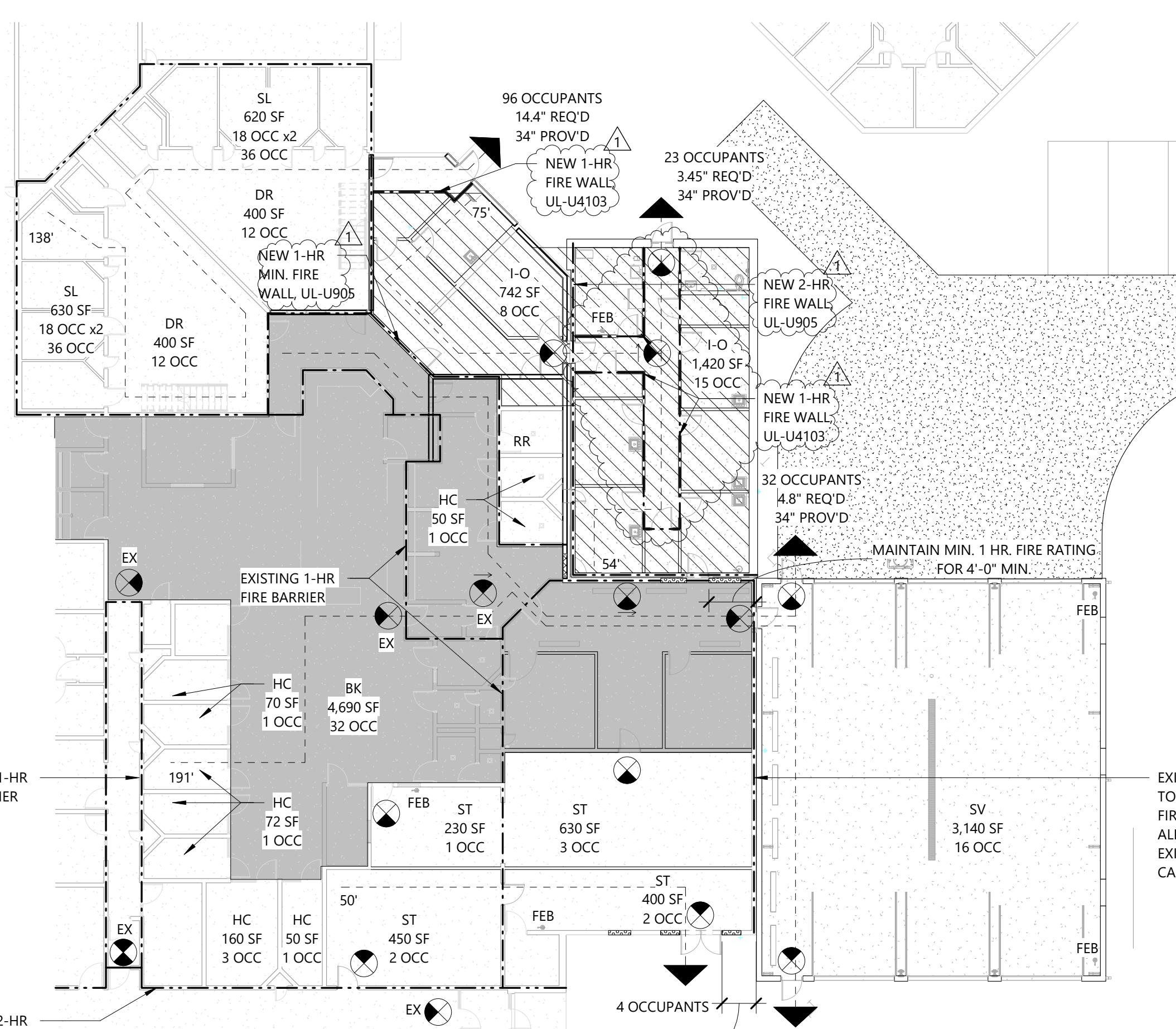
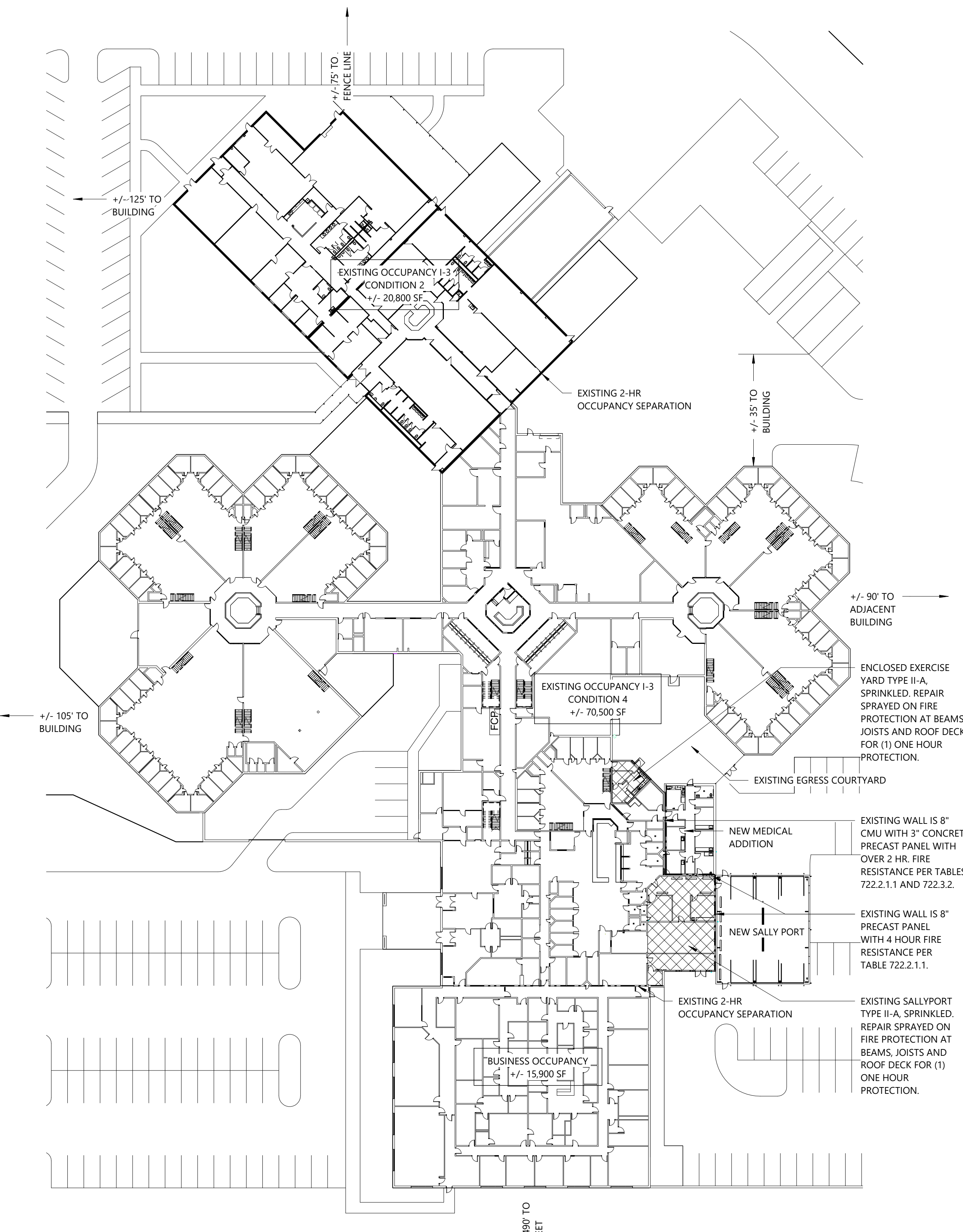
STRUCTURAL FIRE PROTECTION
 STRUCTURAL FRAME- 0 HR.
 EXTERIOR BEARING WALLS- 0 HR.
 INTERIOR BEARING WALLS- 0 HR.
 EXTERIOR NON-BEARING WALLS- 0 HR.
 INTERIOR NON-BEARING WALLS- 0 HR.
 FLOORS- 0 HR.
 ROOF- 0 HR.

ACTIVE FIRE SAFETY FEATURES:
 FIRE SPRINKLER SYSTEM THROUGHOUT
 FIRE ALARM SYSTEM- GENERATOR AND BATTERY BACK UP
 SMOKE DETECTION THROUGHOUT-BATTERY BACKUP
 AUTOMATIC AIR HANDLING EQUIPMENT SHUTDOWN
 EXIT LIGHTS- GENERATOR AND BATTERY BACK UP
 EMERGENCY LIGHTING- GENERATOR AND BATTERY BACK UP

PROTECT EXISTING SPRAYED ON FIRE PROTECTION THROUGHOUT EXISTING BUILDING.

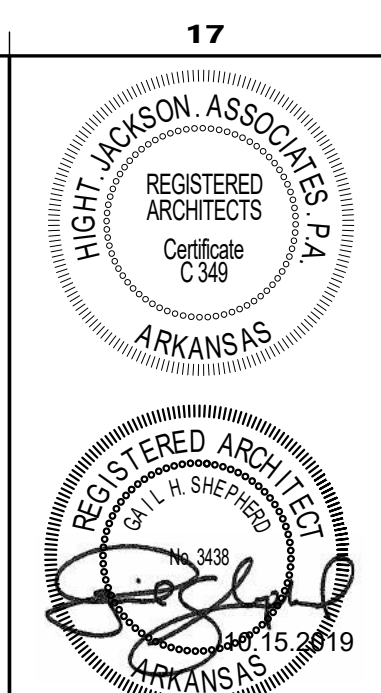
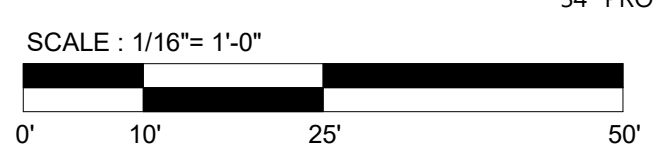
OCCUPANT LOADS	
STORAGE (ST) - 300 GROSS	
INSTITUTIONAL OUTPATIENT (I-O) = 100 GROSS	
SALLY PORT (VEHICULAR) (SV) = 200 GROSS	
HOLDING CELL (HC) = 50 NET	
SLEEPING AREAS (SL) = 35 NET	
DAY ROOM (DR) = 35 NET	
BOOKING & INTAKE (BK) = 150 GROSS	

ARKANSAS JAIL STANDARDS 2022
 -SINGLE HOLDING CELL - 50 SF./OCC.
 -SLEEPING AREAS AND DAY ROOMS - 35 S.F./OCC.



A1 FIRST FLOOR LIFE SAFETY PLAN
 1" = 40'-0"

A8 Life Safety Plan
 1/16" = 1'-0"



Hight Jackson ASSOCIATES
 5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A REMODEL AND ADDITION FOR
BENTON CO. DETENTION CENTER
 BENTONVILLE, AR

DRAWN BY:	RS
CHECK BY:	LS
ISSUE DATE:	06/10/2024
PROJECT NO:	2404
REVISION DATE:	
DATE	DESCRIPTION
07/09/2024	ADD 2
S H E E T	
A1.1	
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- Authorities Having Jurisdiction should be consulted before construction.
- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada

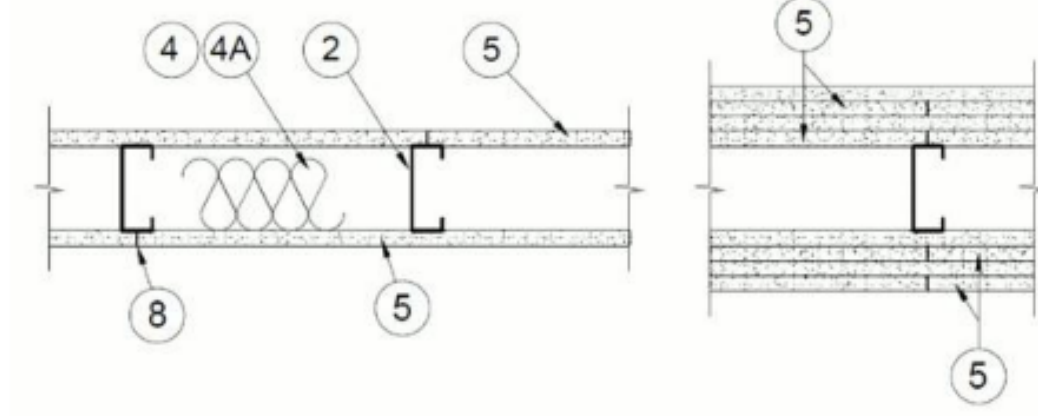
[See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States](#)
[Design Criteria and Allowable Variances](#)

[See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada](#)
[Design Criteria and Allowable Variances](#)

Design No. U4103

June 14, 2024

Nonbearing Wall Ratings — 1, 2, 3 or 4 Hr (See Items 4 & 5 through 5E)
 * Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



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7. Furring Channels — (Optional, Not Shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type 5-12 steel screws.

7A. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-9/16 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6.

b. Steel Framing Members* — Used to attach furring channels (Item 7Aa) to studs (Item 2). Clips spaced max. 48 in. OC. RSIC-1 and RSIC-V (2.75) clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. RSIC-V and RSIC-V (2.75) clips secured to studs with No. 8 x 9/16 in. minimum self-drilling, 5-12 steel screw through the center hole. Furring channels are friction fitted into clips. RSIC-1 and RSIC-V clips for use with 2-9/16 in. wide furring channels. RSIC-1 (2.75) and RSIC-V (2.75) clips for use with 2-23/32 in. wide furring channels.
PAC INTERNATIONAL L L C — Types RSIC-1, RSIC-V, RSIC-1 (2.75), RSIC-V (2.75).

7B. Framing Members* — (Optional, Not Shown) — As an alternate to Item 7, for single or double layer systems, furring channels and Steel Framing Members on only one side of studs as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Batts and Blankets placed in stud cavity as described in Item 5. Two layers of gypsum board attached to furring channels as described in Item 5.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to one side of studs (Item 2) only. Clips spaced 48 in. OC, and secured to studs with two No. 8 x 2-1/2 in. coarse drywall screws, one through the hole at each end of the clip. Furring channels are friction fitted into clips.
KINETICS NOISE CONTROL INC — Type Isomax

7C. Framing Members* — (Not Shown) — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6.

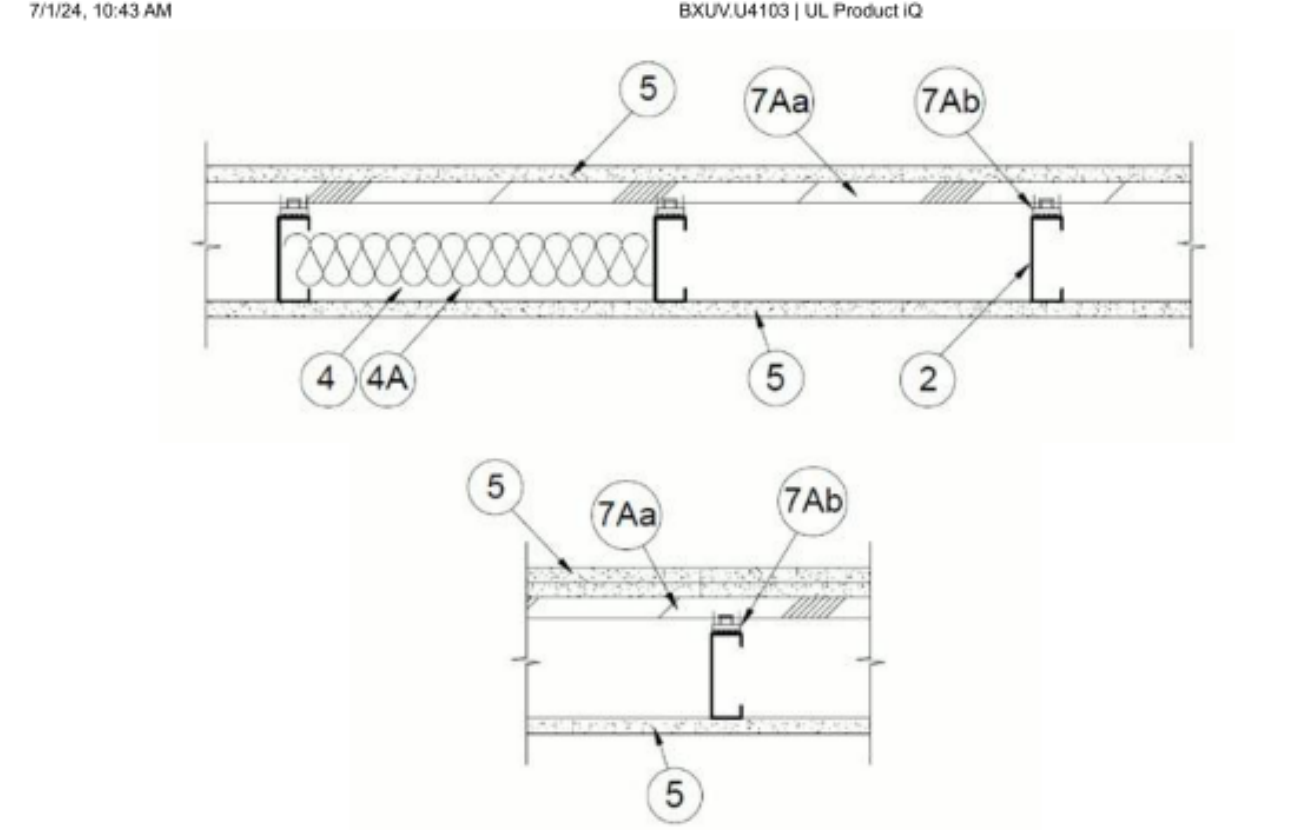
b. Steel Framing Members* — Used to attach furring channels (Item 7Ca) to studs (Item 2). Clips spaced max. 48 in. OC. GENIECLIPS secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PLITEQ INC — Type GENIECLIP

7D. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6.

b. Steel Framing Members* — Used to attach furring channels (Item 7Da) to studs. Clips spaced 48 in. OC, and secured to studs with 2 in. coarse drywall screw with 1 in. diam washer through the center hole. Furring channels are friction fitted into clips
STUDCO BUILDING SYSTEMS — RESILMOUNT Sound Isolation Clips - Type A237 or A237R

7E. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Furring channels and Steel Framing Members as described below:

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1. Floor and Ceiling Runners — (Not Shown) — For use with Item 2 — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth to accommodate stud size, with min 1-1/4 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.

1A. Framing Members* — Floor and Ceiling Runner — Not Shown — In lieu of Item 1 — For use with Item 2A, proprietary channel shaped runners, 1-1/4 in. wide, depth to accommodate stud size, fabricated from min 0.019 in. thick galv steel, attached to floor and ceiling with fasteners spaced 24 in. OC max.
PANEL REY S A — SUPRA Trace 20EQ/19 mil

2. Steel Studs — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min depth as indicated under Item 5, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.

2A. Framing Members* - Steel Studs — Not Shown — In lieu of Item 2 — For use with Item 1A, proprietary channel shaped steel studs, min 1-1/4 in. wide, depth as indicated under Item 5, with 1/4 in. return lips fabricated from min 0.019 in. thick galv steel, spaced 24 in. OC max. Studs cut 3/8 to 3/4 in. less in length than assembly height.
PANEL REY S A — SUPRA Stud 20EQ/19 mil

3. Wood Structural Panel Sheathing — (Optional, For use with Item 5 Only) — (Not Shown) — 4 ft wide, 7/16 in. thick oriented strand board (OSB) or 15/32 in. thick structural 1 sheathing (plywood) complying with DOC P51 or PS2, or APA Standard PRP-108, manufactured with exterior glue, applied horizontally or vertically to the steel studs. Vertical joints centered on studs, and staggered one stud space from wallboard joints. Attached to studs with flat-head self-drilling tapping screws with a min. head diam. of 0.292 in. at maximum 6 in. OC in the perimeter and 12 in. OC in the field. When used, gypsum panels attached over OSB or plywood panels and fastener lengths for gypsum panels increased by min. 1/2 in.

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a. Furring Channels — Formed of No. 25 MSG galv steel. Spaced 24 in. OC perpendicular to studs. Channels secured to studs as described in Item 7B. Ends of adjoining channels overlapped 6 in. and tied together with double strand of No. 18 AWG galvanized steel wire. Gypsum board attached to furring channels as described in Item 6.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ba) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Furring channels are friction fitted into clips.
REGUPOL AMERICA — Type SonusClip

7F. Steel Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — Resilient channels and Steel Framing Members as described below:
a. Resilient Channels — Formed of No. 25 MSG galv steel, spaced 24 in. OC, and perpendicular to studs. Channels secured to studs as described in Item b. Ends of adjoining channels overlapped 6 in. and secured in place with two No. 8 15 x 1/2 in. Philips Modified Truss screws spaced 2-1/2 in. from the center of the overlap. Gypsum board attached to resilient channels as described in Item 5.

b. Steel Framing Members* — Used to attach resilient channels (Item 7Fa) to studs. Clips spaced 48 in. OC, and secured to studs with No. 8 x 2-1/2 in. coarse drywall screw through the center hole. Resilient channels are secured to clips with one No. 10 x 1/2 in. pan-head self-drilling screw.
KEENE BUILDING PRODUCTS CO INC — Type RC+ Assurance Clip

7G. Framing Members* — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 7, furring channels and Steel Framing Members as described below:
a. Furring Channels — Formed of No. 25 MSG galv steel, 2-23/32 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 6.

b. Steel Framing Members* — Used to attach furring channels (Item 7Ga) to studs (Item 2). Clips spaced max. 48 in. OC. Clips secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, 5-12 steel screw through the center hole. Furring channels are friction fitted into clips.
CLARKDIETRICH BUILDING SYSTEMS — Type ClarkDietrich Sound Clip

8. Joint Tape and Compound — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

9. Siding, Brick or Stucco — (Optional, Not Shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

10. Caulking and Sealants* — (Optional, Not Shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

11. Barrier Mesh — (Optional, Not Shown) - Attached to steel studs on one or both sides of the wall using Barrier Mesh Clips spaced at maximum 12 inches on center vertically, using a flat head type screw penetrating through the steel at least 3/8 of an inch. For Steel Studs less than 0.033 inches in thickness, use self-piercing screws. For Steel Studs equal to or greater than 0.033 inches in thickness, use steel drill screws (self-tapping). Gypsum Board (Item 5) to be installed directly over the Barrier Mesh using prescribed screw patterns with lengths increased by a minimum 1/8 in. Barrier Mesh may be installed with the long dimension of the diamond pattern positioned vertically or horizontally. Barrier Mesh joints may occur as butt joints at the framing members and secured using the Barrier Mesh Clips or occur in between framing members as overlapping joints secured using 18 SWG wire ties spaced a maximum 12 in. on center.
CLARKDIETRICH BUILDING SYSTEMS — Barrier Mesh, Barrier Mesh Clips

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4. Batts and Blankets* — (Required as indicated under Item 5) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 5.
 See **Batts and Blankets** (BKNV or BZD) Categories for names of Classified companies.

4A. Batts and Blankets* — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance.
 See **Batts and Blankets** (BKNV or BZD) Categories for names of Classified companies.

4B. Fiber, Sprayed* — (Optional, for use with Type ULIX) Where insulation is required - Spray applied granulated mineral fiber material. The fiber is applied with adhesive at a minimum density of 4.0 pcf to completely fill the wall cavity in accordance with the application instructions supplied with the product. See **Fiber, Sprayed** (CCA2).
AMERICAN ROCKWOOL MANUFACTURING, LLC — Type Rockwool Premium Plus

4C. Foamed Plastic* — (As an alternate to Item 4, for use with Item 5E) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

CARLISLE SPRAY FOAM INSULATION — Types SealTite Pro Closed Cell (CC), SealTite Pro Open Cell (OC), SealTite Pro OCK, SealTite Pro No Trim 21, SealTite Pro One Zero, Foamulate Closed Cell, Foamulate OCK, Foamulate 70, and Foamulate HFO.

4D. Foamed Plastic* — (As an alternate to Item 4, for use with Item 5E) — Spray applied, foamed plastic insulation, at any thickness from partial fill to completely filling stud cavity, for up to 2 hour rated assemblies only. When foamed plastic is used, minimum stud depth shall be 3-1/2 in. with minimum 20 MSG steel thickness.

BASF CORP - Enercite® NM, Enercite® G, FE178®, Spraytite® 178, Spraytite® 81206, Walltite® 200, Walltite® US-N, Walltite® HP+, FE137®, FE158®, Spraytite® 158, Spraytite® SP, Spraytite® 81205, Walltite® MAX, Walltite® LWP, Walltite® Plus and Enercite® Max

5. Gypsum Board* — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) with Type ULIX need not be staggered. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:

Rating, Hr	Min Stud Depth, in. Items 2	Min Protection on Each Side of Wall No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 4)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional

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7/1/24, 10:43 AM BXUV/U4103 | UL Product IQ

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Last Updated on 2024-06-14

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BXUV/U4103 UL Product IQ			
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SGX, SHX, ULX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR, 3/4 in. thick Types IP-X3 or ULTRACODE

When Item 7B, **Steel Framing Members***, is used, Nonbearing Wall Rating is limited to 1 Hr. Min. stud depth is 3-1/2 in., min. thickness of insulation (Item 4) is 3 in., and two layers of gypsum board panels (1/2 in. or 5/8 in. thick) shall be attached to furring channels as described in Item 6. One layer of gypsum board panels (1/2 in. or 5/8 in. thick) attached to opposite side of stud without furring channels as described in Item 6.

5A. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 24 to 54 in. wide, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 6.
UNITED STATES GYPSUM CO — Type FRX-G, SHX.

5B. Gypsum Board* — (As an alternate to Item 5) — 5/8 in. thick, 48 in. wide, applied vertically or horizontally. Secured as described in Item 6. For use with Items 1 and 2 only.
UNITED STATES GYPSUM CO — Type USGX

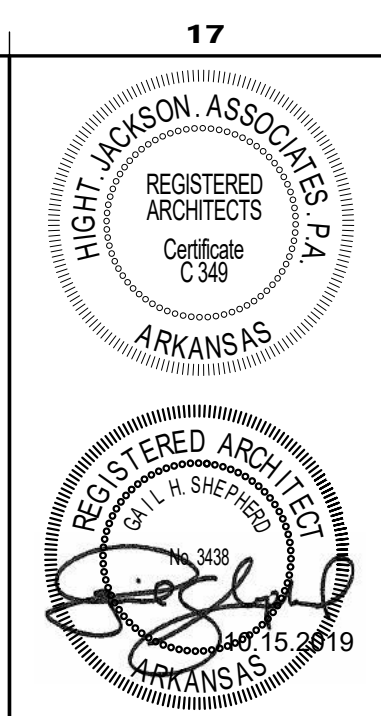
5C. Gypsum Board* — (As an alternate to Item 5) — Nom. 5/8 in. thick gypsum panels with beveled, square or tapered edges installed as described in Item 5. Steel stud minimum depth shall be as indicated in Item 5.
UNITED STATES GYPSUM CO — Type ULIX, ULX

5D. Gypsum Board* — (As an alternate to Item 5 when Foam Plastic insulation (Item 4C) is used) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1 in. long Type 5 steel screws spaced 8 in. OC at perimeter and in the field. For 2 layer assemblies outer layer will be attached to studs over inner layer with the 1-5/8 in. long steel screws spaced 6 in. OC.

5E. Gypsum Board* — (As an alternate to Item 5 - required when Foam Plastic insulation (Items 4C or 4D) are used) — 1 hour rating only) — Any 5/8 in. thick, 4 ft. wide, Gypsum Board listed in Item 5 above. Applied vertically with vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Gypsum panels secured to studs with 1-1/4 in. long Type 5 steel screws spaced 8 in. OC at perimeter and in the field.

6. Fasteners — (Not Shown) — For use with Item 2 - Type 5 or 5-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 7). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. **Single layer system with Type ULIX:** 1 in. long, spaced 12 in. OC in the field and perimeter, when panels are applied horizontally or vertically. **Two layer systems:** First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

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A REMODEL AND ADDITION FOR
BENTON CO. DETENTION CENTER
 BENTONVILLE, AR

DRAWN BY:
RS

CHECK BY:
LS

ISSUE DATE
06/10/2024

PROJECT NO.
2404

REVISION DATE
 DATE DESCRIPTION
 07/09/2024 ADD 2

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- Fire resistance assemblies and products are developed by the design submitter and have been investigated by UL for compliance with applicable requirements. The published information cannot always address every construction nuance encountered in the field.
- When field issues arise, it is recommended the first contact for assistance be the technical service staff provided by the product manufacturer noted for the design. Users of fire resistance assemblies are advised to consult the general Guide Information for each product category and each group of assemblies. The Guide Information includes specifics concerning alternate materials and alternate methods of construction.
- Only products which bear UL's Mark are considered Certified.

BXUV - Fire Resistance Ratings - ANSI/UL 263 Certified for United States
 BXUV7 - Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada
[See General Information for Fire Resistance Ratings - ANSI/UL 263 Certified for United States Design Criteria and Allowable Variations](#)
[See General Information for Fire Resistance Ratings - CAN/ULC-S101 Certified for Canada Design Criteria and Allowable Variations](#)

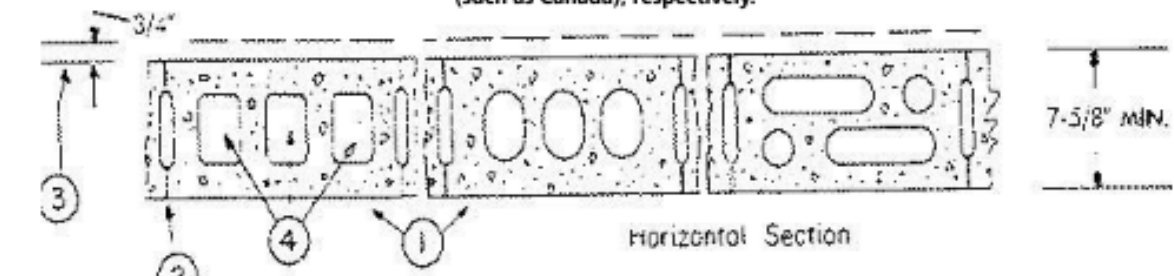
Design No. U905

April 14, 2023

Bearing Wall Rating — 2 HR.
 Nonbearing Wall Rating — 2 HR

This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

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



1. Concrete Blocks — Various designs, Classification D-2 (2 hr).
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See **Concrete Blocks** category for list of eligible manufacturers.

2. **Mortar** — Blocks laid in full bed of mortar, nom. 3/8 in. thick, of not less than 2-1/4 and not more than 3-1/2 parts of clean sharp sand to 1 part Portland cement (proportioned by volume) and not more than 50 percent hydrated lime (by cement volume). Vertical joints staggered.

3. **Portland Cement Stucco or Gypsum Plaster** — Add 1/2 hr 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 hr. Attached to concrete blocks (Item 1).

4. **Loose Masonry Fill** — If all core spaces are filled with loose dry expanded slag, expanded clay or shale (Rotary Klin Process), water repellent vermiculite masonry fill insulation, or silicone treated perlite loose fill insulation add 2 hr to classification.

5. **Foamed Plastic*** — (Optional-Not Shown) — 1-1/2 in. thick max, 4 ft wide sheathing attached to concrete blocks (Item 1).

ATLAS ROOFING CORP — EnergyShield Pro Wall Insulation, EnergyShield Pro 2 Wall Insulation, EnergyShield CGF Pro, EnergyShield Ply Pro, EnergyShield® CGF, EnergyShield® PanelCast, EnergyShield® and EnergyShield® XR

DUPONT DE NEMOURS, INC. — Types Therman Sheathing, Therman Light Duty Insulation, Therman Heavy Duty Insulation, Therman Metal Building Board, Therman White Finish Insulation, Therman c Exterior Insulation, Therman XARMOR c Exterior Insulation, Therman IH Insulation, Therman Plus Liner Panel, Therman Heavy Duty Plus (HDP), TUFF-R™ c Insulation, Therman Butler StyWall Insulation Board and Therman Morton Heavy Duty Insulation Board

Holcim Solutions and Products US, LLC — "Enverge" CI Foil Exterior Wall Insulation* and "Enverge" CI Glass Exterior Wall Insulation*

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — Types "Xci-Class A", "Xci Foil (Class A)", "Xci 286"

RMAX, A BUSINESS UNIT OF SIKA CORPORATION — Types "TSX-8500", "ECOMAXi FR", "TSX-8510", "ECOMAX xi FR White", "ECOMAXi", "ECOMAXi FR Air Barrier", "Thermasheath-XP", "Thermasheath", "Durasheath"

JOHNS MANVILLE — Type "AP Foil-Faced Foam Sheathing"

5A. **Building Units*** — As an alternate to Items 5, min. 1-in thick polyisocyanurate composite foamed plastic insulation boards, nom. 48 by 48 or 96 in.

ATLAS ROOFING CORP — EnergyShield® Ply

HUNTER PANELS, A DIVISION OF CARLISLE CONSTRUCTION MATERIALS, LLC — "Xci N8", "Xci Ply"

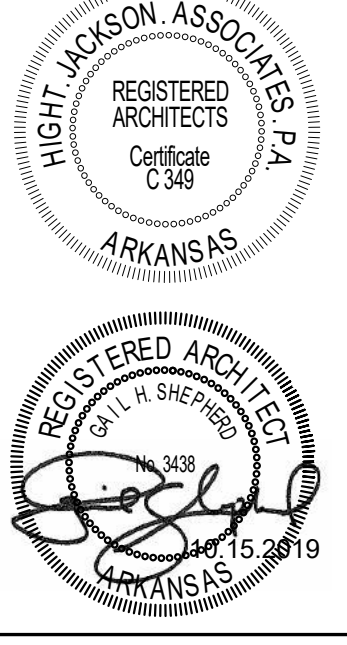
RMAX, A BUSINESS UNIT OF SIKA CORPORATION — "Thermasheath-Si", "ECOBASec", "ThermaBase-CI", "ECOMAXi FR Ply", "ECOMAXi Ply".

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 Last Updated on 2023-04-14

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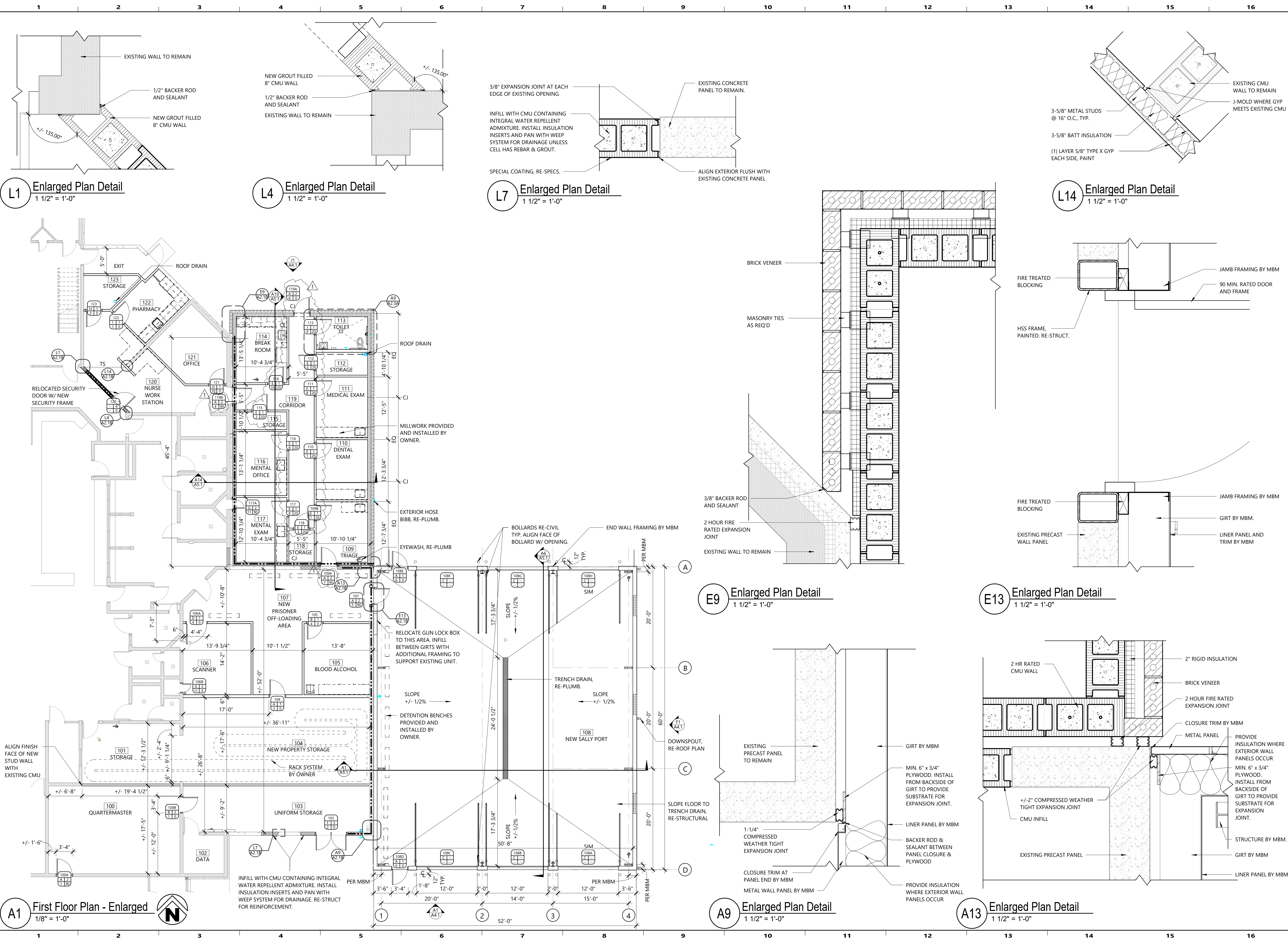
A REMODEL AND ADDITION FOR
BENTON CO. DETENTION CENTER
 BENTONVILLE, AR

DRAWN BY: RS
 CHECK BY: LS
 ISSUE DATE: 06/10/2024

PROJECT NO: 2404

REVISION DATE: 07/09/2024
 DATE: 07/09/2024
 DESCRIPTION: ADD 2

SHEET
A1.2B
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L1 Enlarged Plan Detail
1 1/2" = 1'-0"

L4 Enlarged Plan Detail
1 1/2" = 1'-0"

L7 Enlarged Plan Detail
1 1/2" = 1'-0"

L14 Enlarged Plan Detail
1 1/2" = 1'-0"

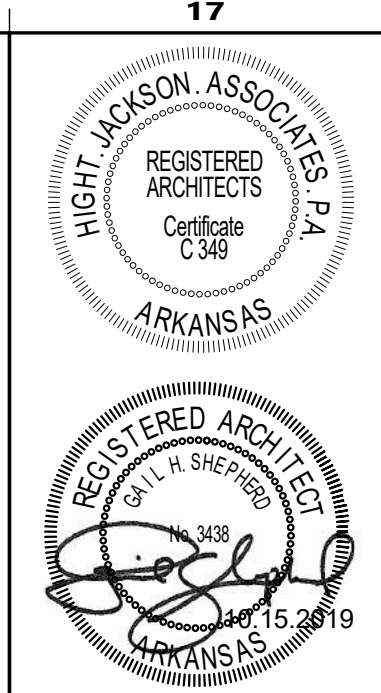
E9 Enlarged Plan Detail
1 1/2" = 1'-0"

E13 Enlarged Plan Detail
1 1/2" = 1'-0"

A9 Enlarged Plan Detail
1 1/2" = 1'-0"

A13 Enlarged Plan Detail
1 1/2" = 1'-0"

A1 First Floor Plan - Enlarged
1/8" = 1'-0"

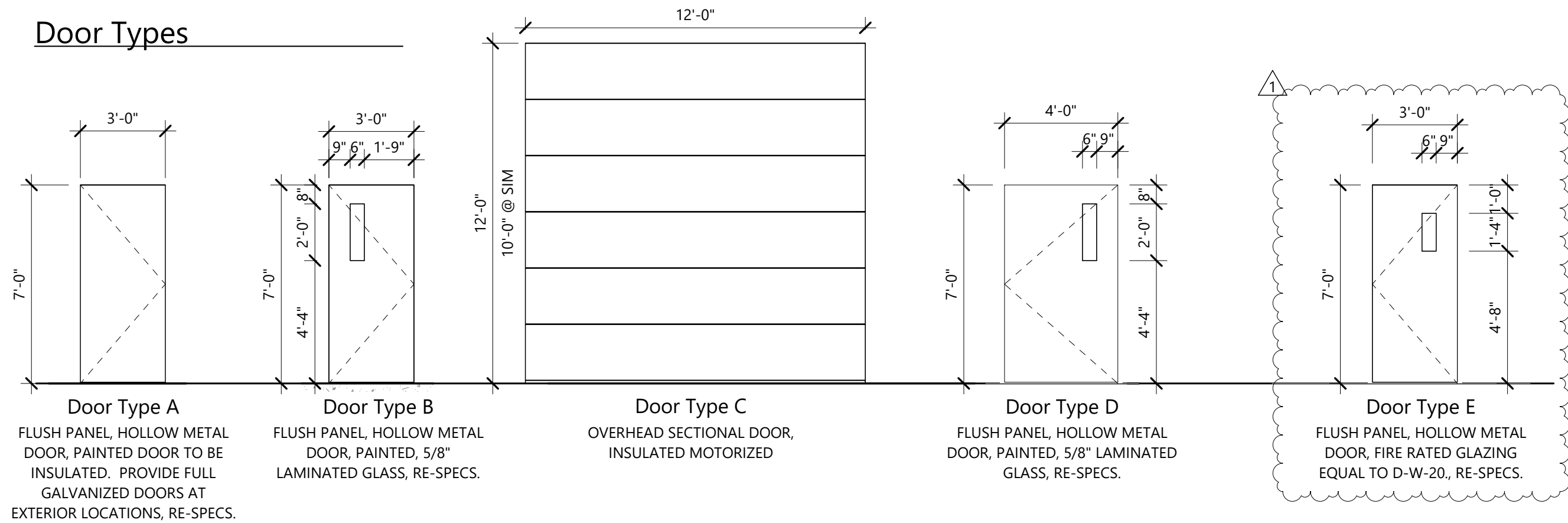


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A REMODEL AND ADDITION FOR
BENTON CO. DETENTION CENTER
BENTONVILLE, AR

DRAWN BY:	RS
CHECK BY:	LS
ISSUE DATE:	06/10/2024
PROJECT NO:	2404
REVISION DATE:	
DATE:	07/09/2024
DESCRIPTION:	ADD 2
S H E E T	
A2.1B	
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Door Types



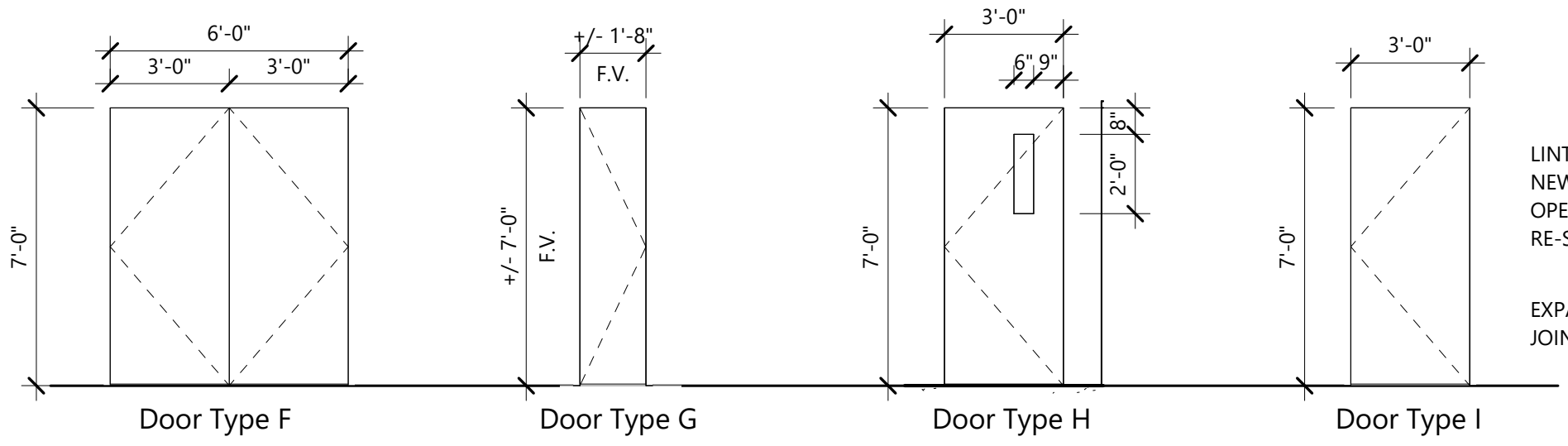
Door Type A
FLUSH PANEL, HOLLOW METAL DOOR, PAINTED DOOR TO BE INSULATED. PROVIDE FULL GALVANIZED DOORS AT EXTERIOR LOCATIONS, RE-SPECS.

Door Type B
FLUSH PANEL, HOLLOW METAL DOOR, PAINTED, 5/8" LAMINATED GLASS, RE-SPECS.

Door Type C
OVERHEAD SECTIONAL DOOR, INSULATED MOTORIZED

Door Type D
FLUSH PANEL, HOLLOW METAL DOOR, PAINTED, 5/8" LAMINATED GLASS, RE-SPECS.

Door Type E
FLUSH PANEL, HOLLOW METAL DOOR, FIRE RATED GLAZING EQUAL TO D-W-20, RE-SPECS.



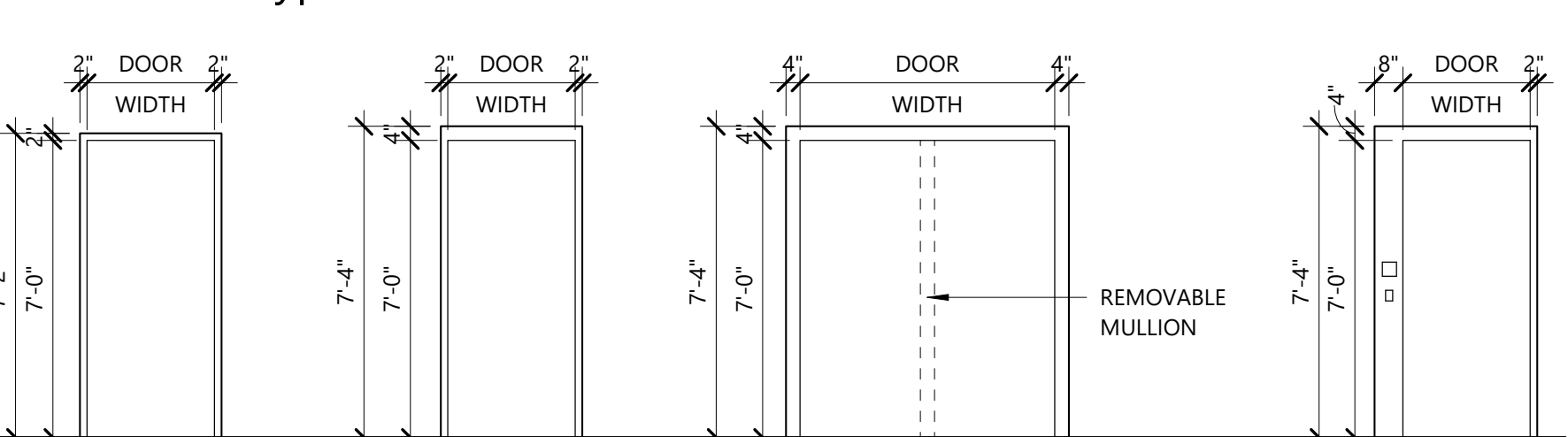
Door Type F
FLUSH PANEL, HOLLOW METAL DOOR, PAINTED DOOR TO BE INSULATED. PROVIDE FULL GALVANIZED DOORS AT EXTERIOR LOCATIONS, RE-SPECS.

Door Type G
FLUSH PANEL, HOLLOW METAL DOOR, PAINTED DOOR, PAINTED, MATCH EXISTING.

Door Type H
FLUSH WOOD DOOR, 5/8" LAMINATED GLASS, RE-SPECS.

Door Type I
FLUSH WOOD DOOR, RE-SPECS.

Door Frame Types

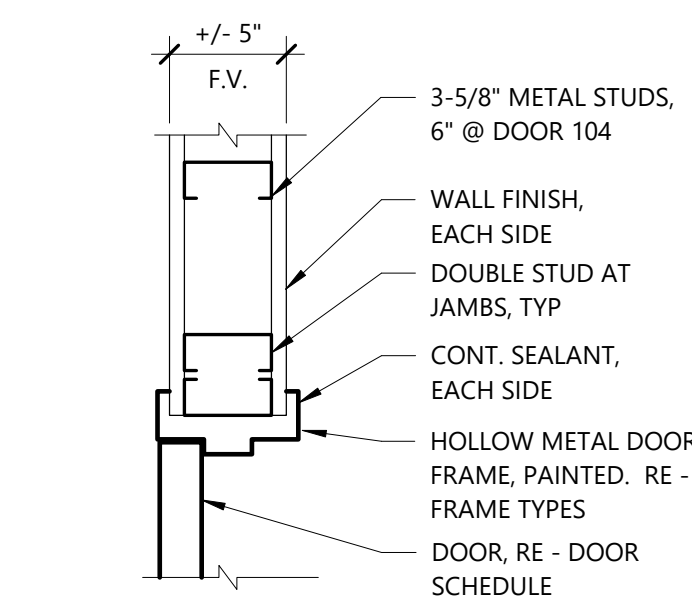


Frame Type 1
HOLLOW METAL FRAME PAINTED

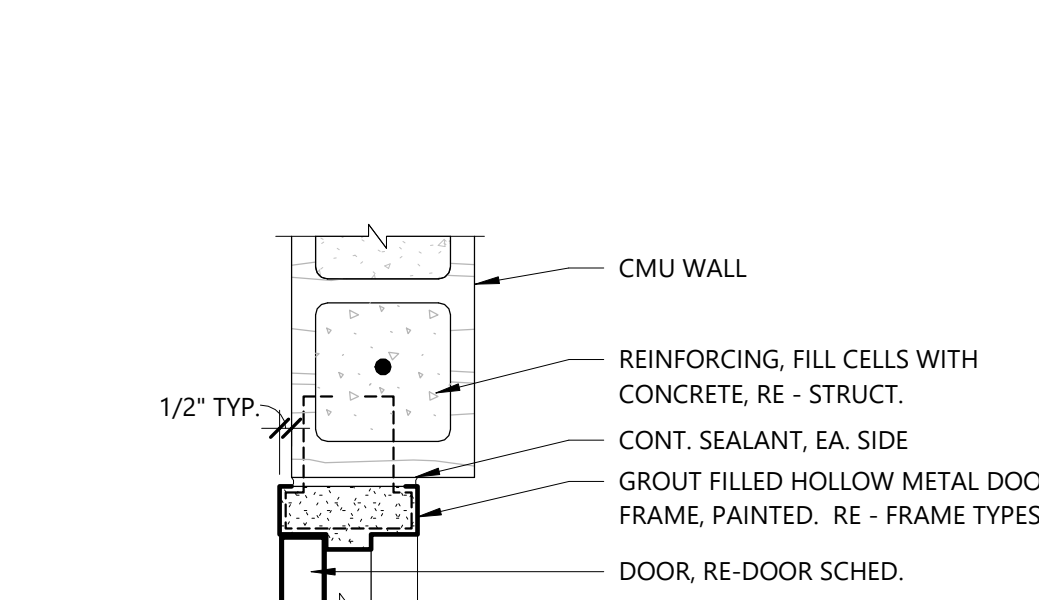
Frame Type 2
HOLLOW METAL FRAME PAINTED. FIELD VERIFY EXISTING CONDITIONS WHERE INSTALLED AT EXISTING OPENING

Frame Type 3
HOLLOW METAL FRAME, GALVANIZED AND PAINTED.

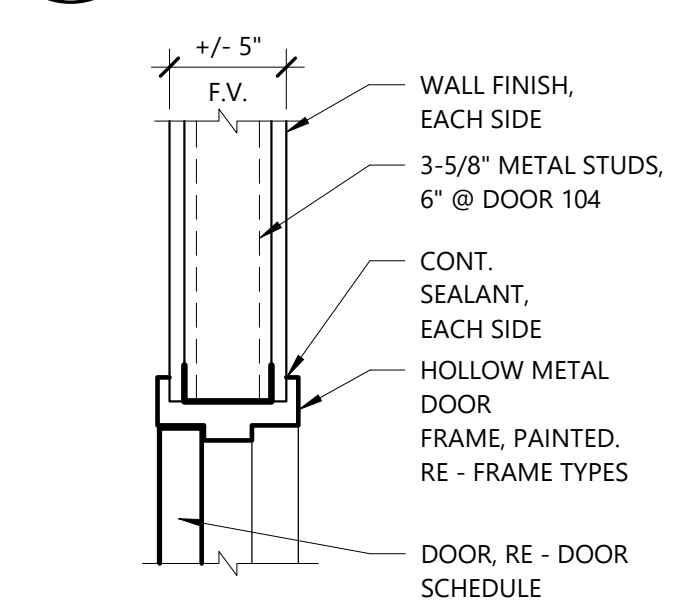
Frame Type 4
DETENTION FRAME, PAINTED. FIELD VERIFY AND MATCH EXISTING.



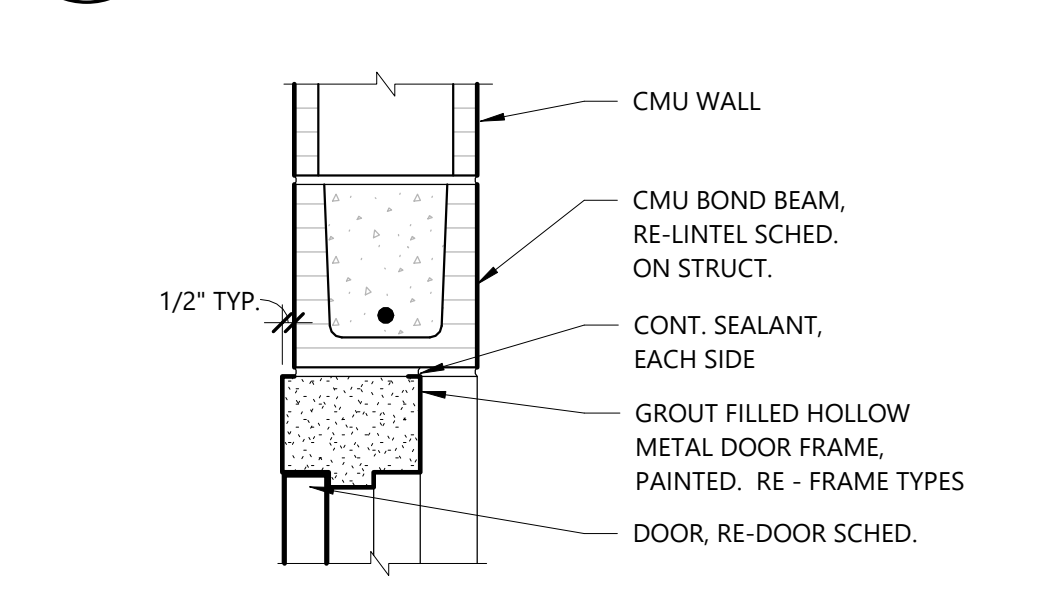
C1 Jamb Detail
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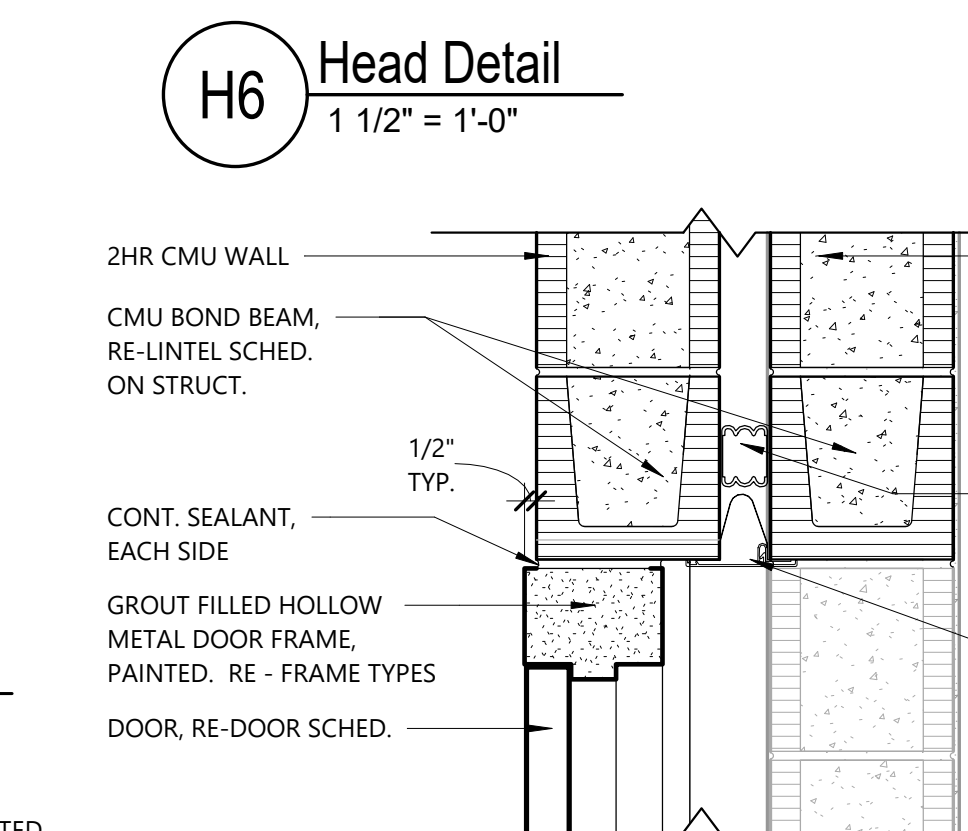
C3 Jamb Detail
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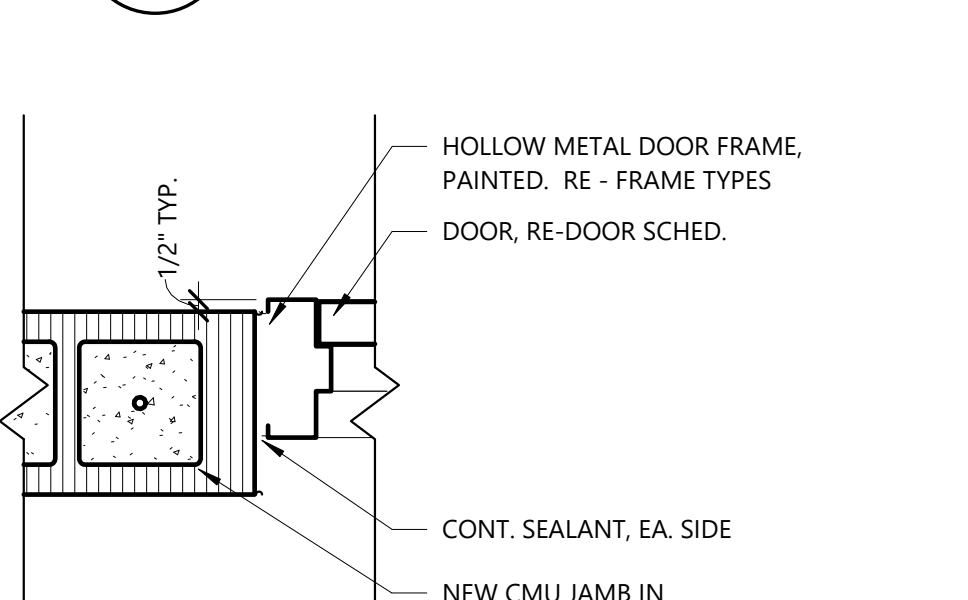
A1 Head Detail
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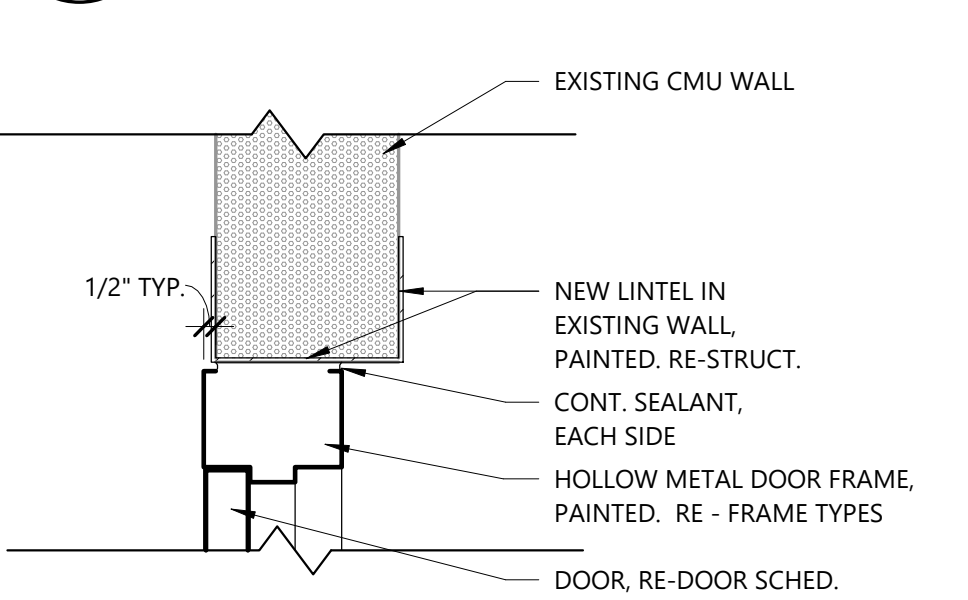
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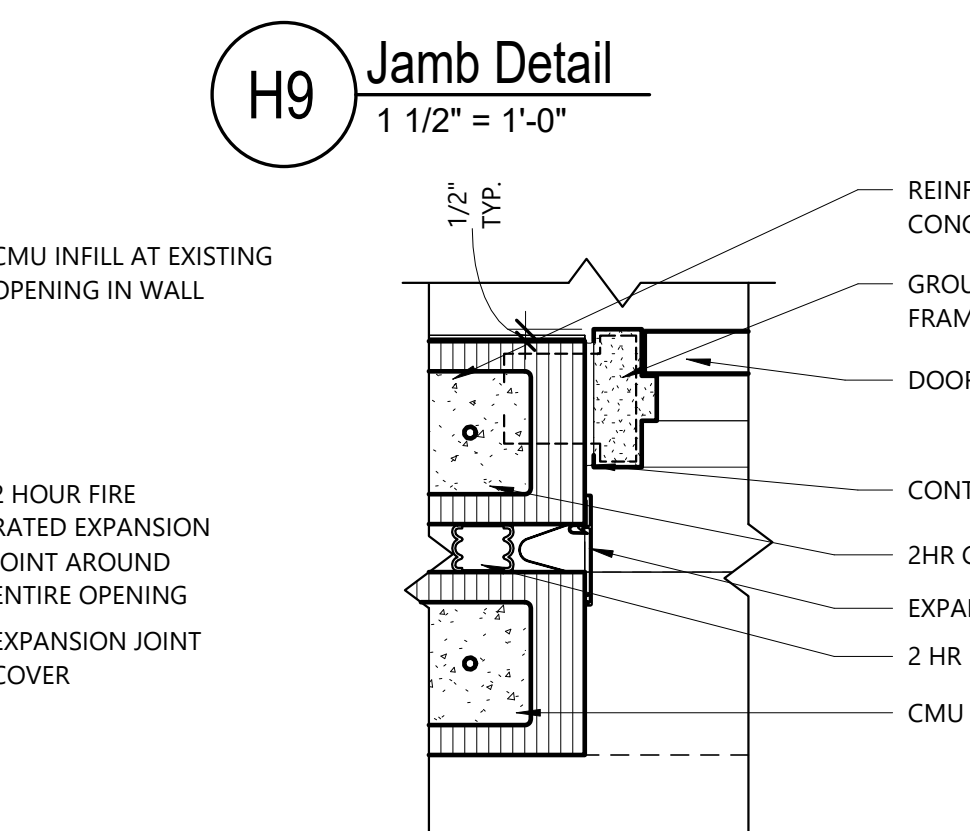
H6 Head Detail
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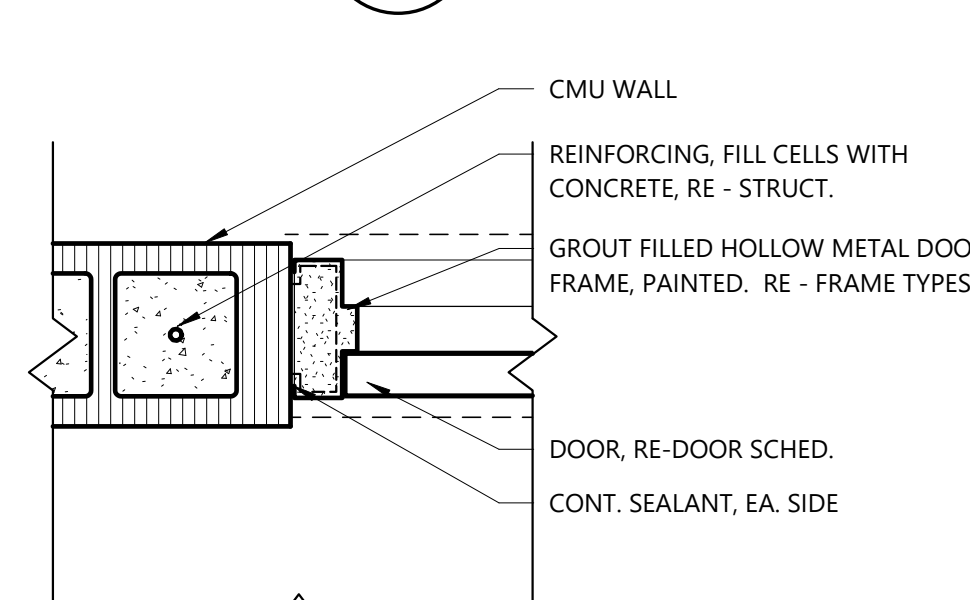
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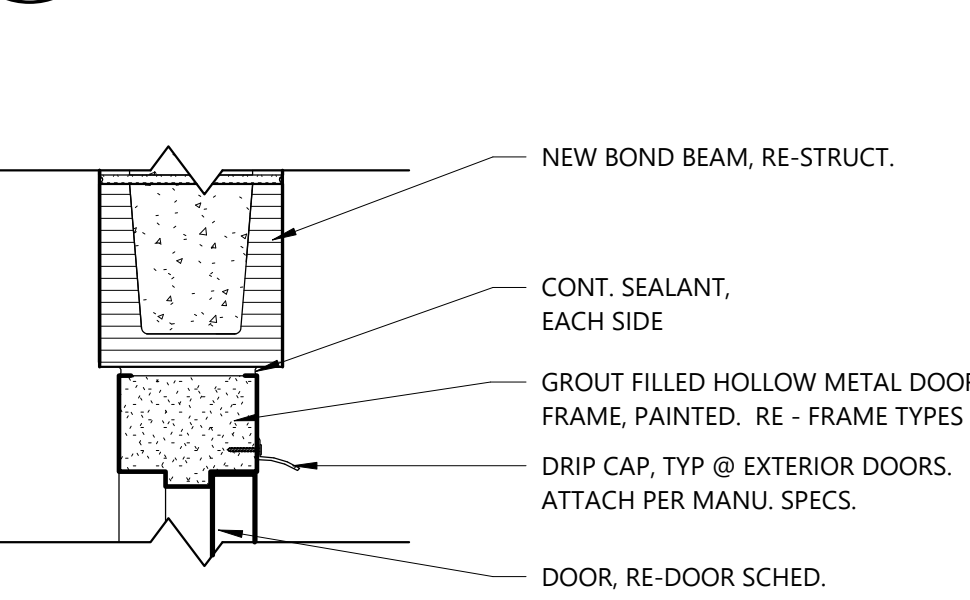
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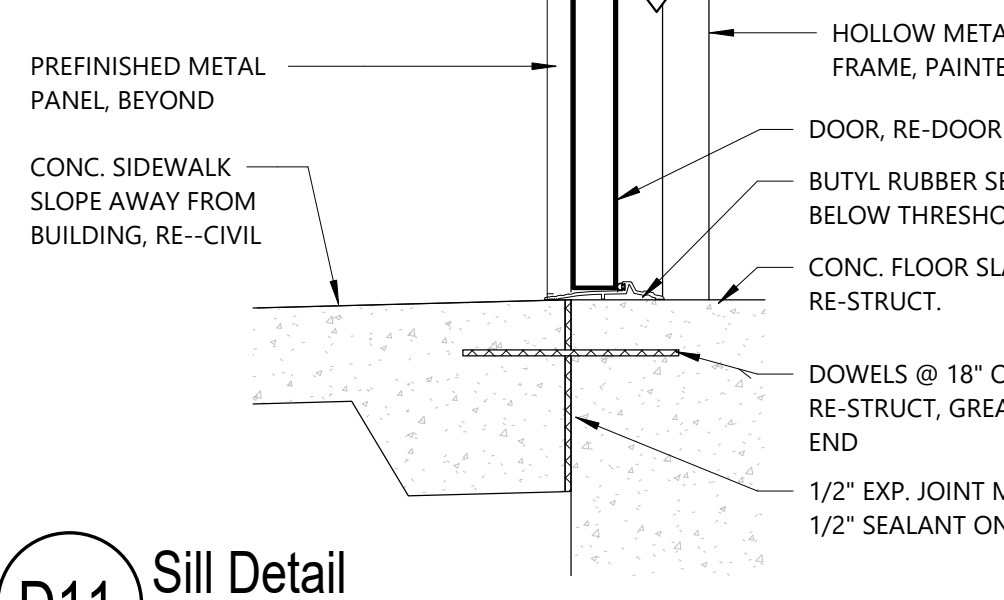
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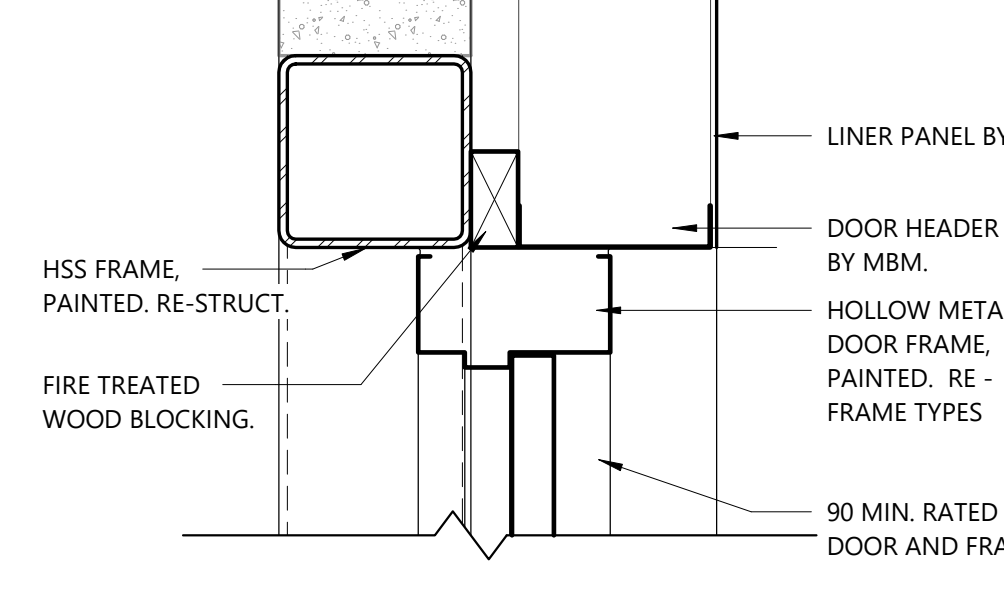
C8 Jamb Detail
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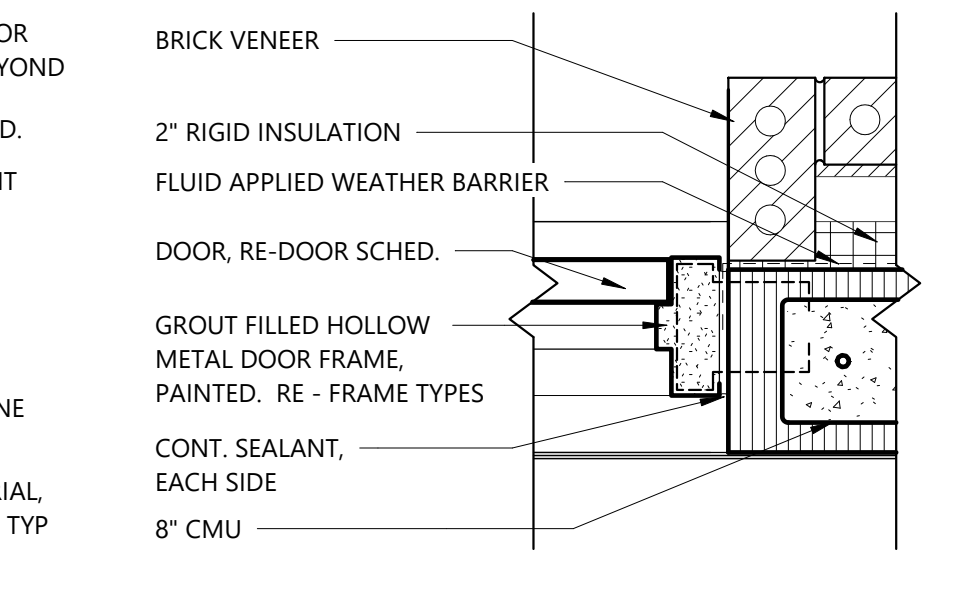
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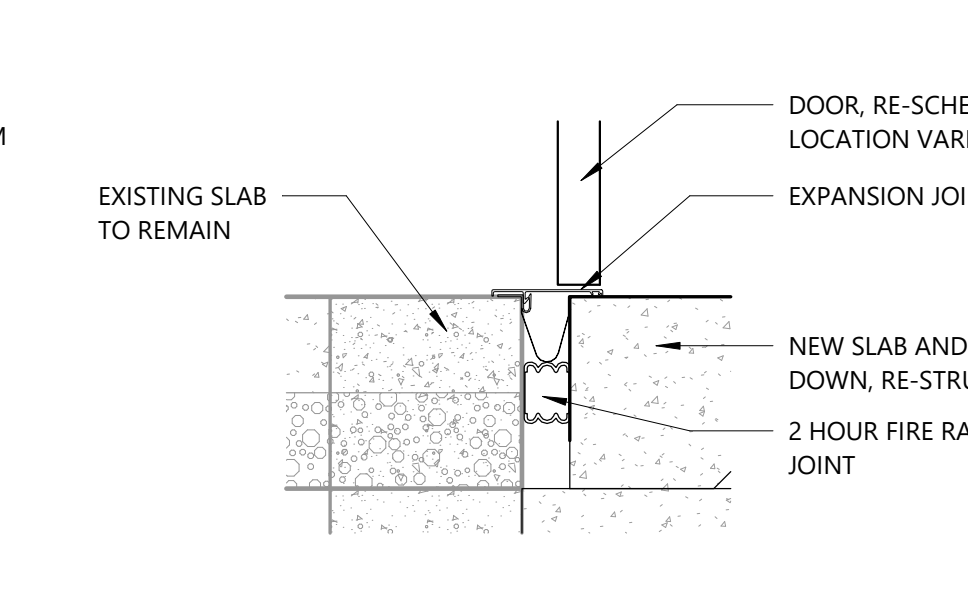
D11 Sill Detail
1 1/2" = 1'-0"



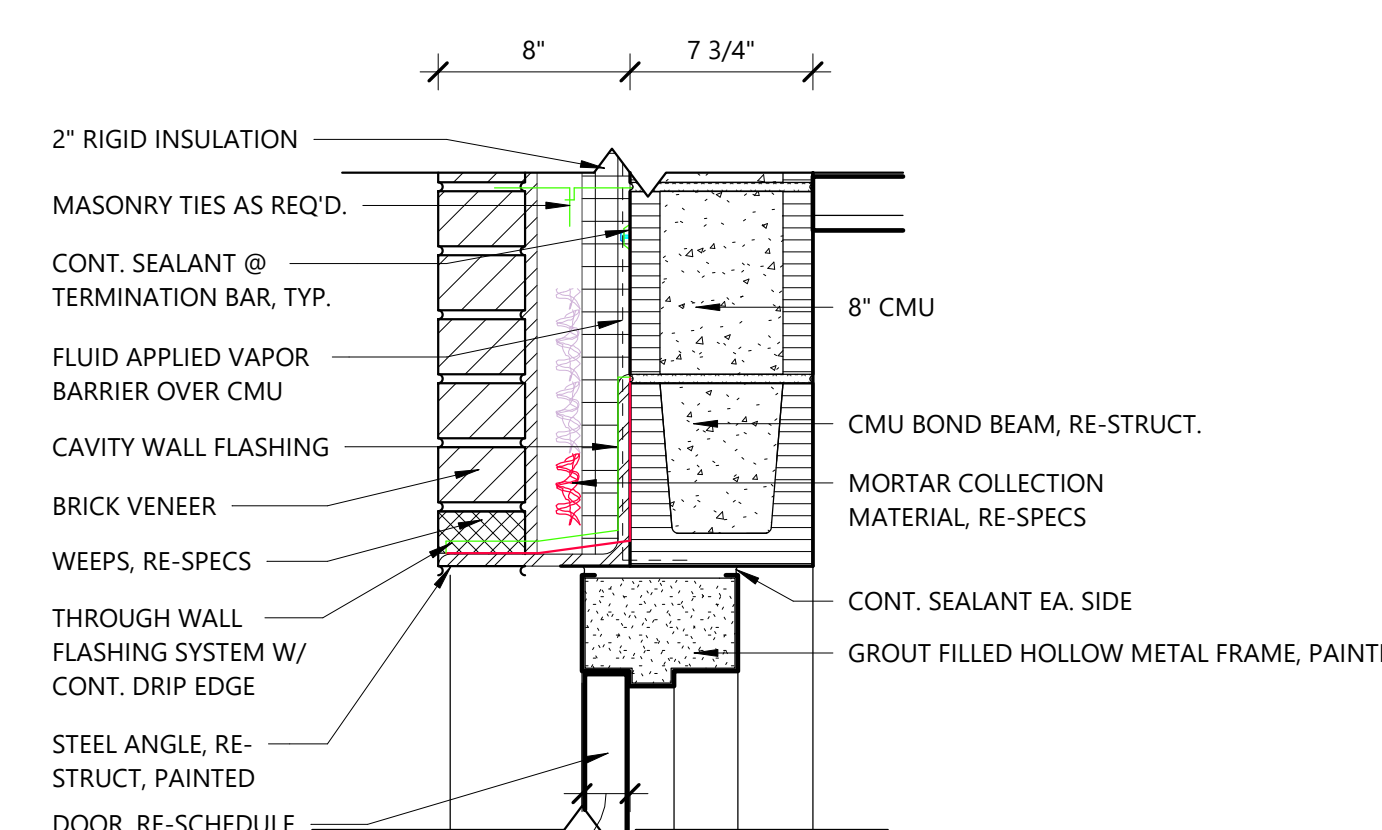
A11 Head Detail
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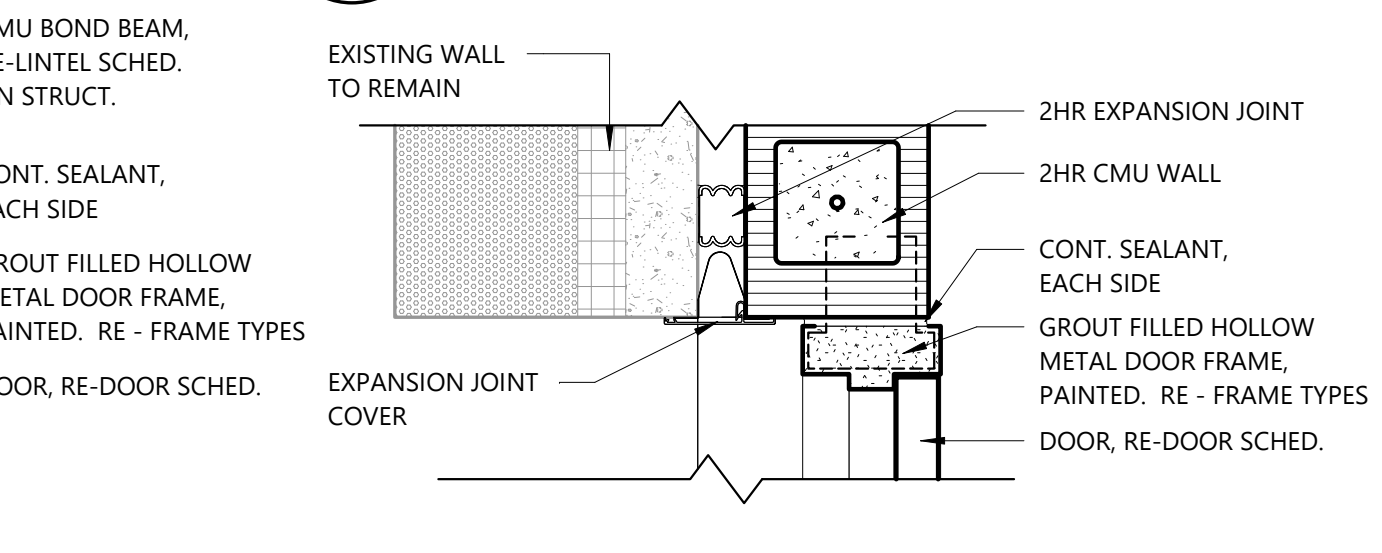
C14 Jamb Detail
1 1/2" = 1'-0"



A14 Sill Detail
1 1/2" = 1'-0"



K9 Head Detail
1 1/2" = 1'-0"



H9 Jamb Detail
1 1/2" = 1'-0"

Door Schedule				
MARK	HEAD	DETAILS		NOTES
		JAMB	SILL	
100A	A6/A3.1	C6/A3.1		
100B	A6/A3.1	C6/A3.1		
103	A8/A3.1	C8/A3.1		
104	A1/A3.1	C1/A3.1		
105	A1/A3.1	C1/A3.1		
106A	A1/A3.1	C1/A3.1		
106B	EXIST	EXIST		FIELD VERIFY EXISTING CONDITIONS
107	A11/A3.1	E13/A2.1B	A14/A3.1	
108A	G10/A4.1	G13/A4.1		
108B	G10/A4.1	G13/A4.1		
108C	G10/A4.1	G13/A4.1		
108D	A10/A4.1	D10/A4.1	D11/A3.1	
108E	A10/A4.1	D10/A4.1	D11/A3.1	
108F	G10/A4.1	G13/A4.1		
108G	G10/A4.1	G13/A4.1		
108H	G10/A4.1	G13/A4.1		
109A	F5/A3.1	F8/A3.1	A14/A3.1 SIM	
109B	A1/A3.1	C1/A3.1		
110	A1/A3.1	C1/A3.1		
111	A1/A3.1	C1/A3.1		
112	A1/A3.1	C1/A3.1		
113	A1/A3.1	C1/A3.1		
114	A1/A3.1	C1/A3.1		
115	A1/A3.1	C1/A3.1		
116	A1/A3.1	C1/A3.1		
117	A1/A3.1	C1/A3.1		
117A	F5/A3.1	F8/A3.1	A14/A3.1 SIM	
118	A1/A3.1	C1/A3.1		
119A	K9/A3.1	C14/A3.1	D11/A3.1	
119B	H6/A3.1	H9/A3.1	A14/A3.1 SIM	
120	A3/A3.1	C3/A3.1		
121	A1/A3.1	C1/A3.1		
122	A1/A3.1	C1/A3.1		
123	A1/A3.1	C1/A3.1		

- Door General Notes**
- PROVIDE BLOCKING IN GYPSUM BOARD AND METAL STUD WALL TO ATTACH AND SUPPORT ALL WALL MOUNTED HARDWARE.
 - PROVIDE REINFORCING IN HOLLOW METAL DOORS AND FRAMES AS REQUIRED TO PROPERLY SECURE HARDWARE, RE-SPECS.
 - PROVIDE SILENCERS FOR ALL HOLLOW METAL DOOR FRAMES.
 - DETAILS DO NOT INDICATE DOOR SWING. REFER TO ARCHITECTURAL FLOOR PLANS FOR DOOR SWINGS.
 - REFER TO DOOR TAG FOR HARDWARE SETS.
 - CONTRACTOR IS RESPONSIBLE FOR VERIFICATION AND COORDINATION OF FRAME THROAT DEPTHS WITH WALL THICKNESS PRIOR TO ORDERING.
 - COORDINATE MOUNTING HEIGHTS OF LATCHES, EXIT DEVICES, AND OTHER HARDWARE ITEMS WITH DOOR LITE DIMENSIONS.
 - ALL DOORS UP TO 3' WIDE LEAFS TO HAVE A 1/2" PAIR OF HINGES EACH LEAF, UNLESS NOTED TO HAVE CONTINUOUS HINGE.
 - ALL CLOSERS TO HAVE PARALLEL ARM, UNLESS NOTED OTHERWISE OR INSTALLATION REQUIRES ALTERNATE ARM TYPE.

- Hardware Sets**
- STOREROOM LOCKSET, HINGES, WALL BUMPER.
 - RIM MOUNT EXIT DEVICE WITH STOREROOM LOCKSET (ACTIVE LEAF), RIM MOUNT EXIT DEVICE W/ EXIT ONLY (INACTIVE LEAF), KEYED REMOVABLE MULLION, CONTINUOUS HINGES, CLOSER W/ OVERHEAD STOP AT EACH LEAF, ASTRAGAL, DOOR COORDINATOR, DRIP CAP.
 - STOREROOM LOCKSET, HINGES, CLOSER W/ STOP.
 - OFFICE LOCKSET, CONTINUOUS HINGES, WALL BUMPER.
 - INSTITUTION LOCKSET, CONTINUOUS HINGE, OVERHEAD STOP, ELECTRIC STRIKE, OWNER PROVIDED ACCESS CONTROL.
 - INSTITUTION LOCKSET, CONTINUOUS HINGE, EXTERIOR FLOOR STOP, THRESHOLD, DRIP CAP, ELECTRIC STRIKE, OWNER PROVIDED ACCESS CONTROL.
 - INSTITUTION LOCKSET, CONTINUOUS HINGE, WALL STOP.
 - PASSAGE LATCHSET, HINGES, WALL STOP.
 - PRIVACY LOCKSET, HINGES, CLOSER, WALL STOP.
 - OFFICE LOCKSET, HINGES, WALL STOP.
 - OFFICE LOCKSET, HINGES, OVERHEAD STOP.

HIGHT JACKSON ASSOCIATES P.A.
 REGISTERED ARCHITECTS
 Certificate C 349
 ARKANSAS

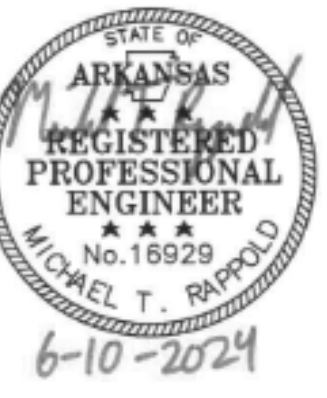
REGISTERED ARCHITECT
 GUY L. H. SHEPHERD
 Certificate 3438
 ARKANSAS

Hight Jackson ASSOCIATES
 5201 W Village Parkway, Suite 300 | Rogers, Arkansas 72788 | (479) 464-4965 | www.hjarch.com

A REMODEL AND ADDITION FOR
BENTON CO. DETENTION CENTER
 BENTONVILLE, AR

DRAWN BY: RS
 CHECK BY: LS
 ISSUE DATE: 06/10/2024
 PROJECT NO: 2404
 REVISION DATE: 07/09/2024
 DESCRIPTION: ADD 2

SHEET
A3.1
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5201 W Village Parkway, Suite 3001 Rogers, Arkansas 72768 | (479) 464-4965 | www.hjarch.com

A REMODEL AND ADDITION FOR
BENTON CO. DETENTION CENTER
BENTONVILLE, AR

DRAWN BY:
G.S.
CHECK BY:
M.T.R.
ISSUE DATE:
06/10/2024

PROJECT NO:
2404

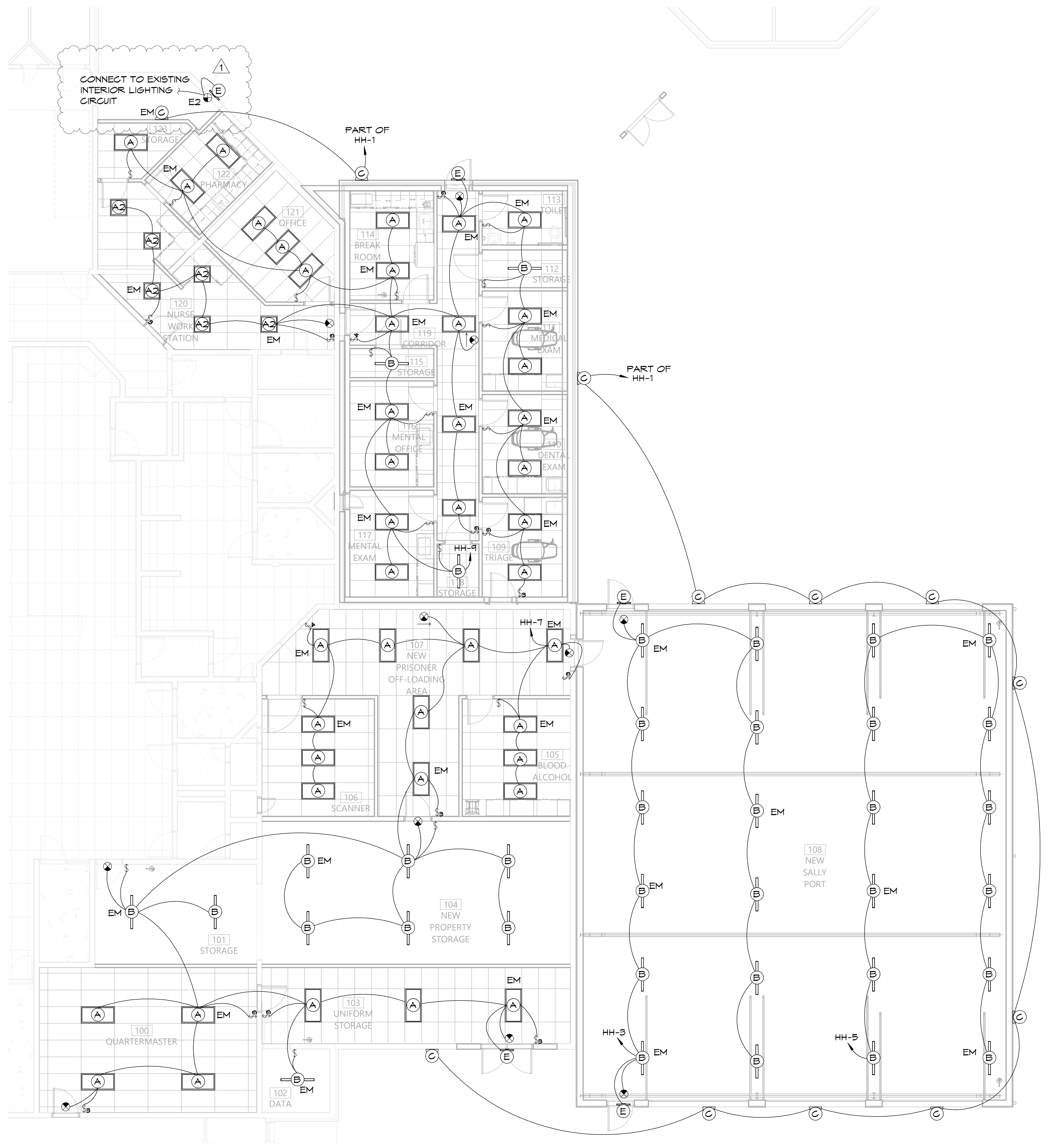
REVISION DATES

#	DATE	DESCRIPTION
1	07/09/2024	ADDENDUM #2

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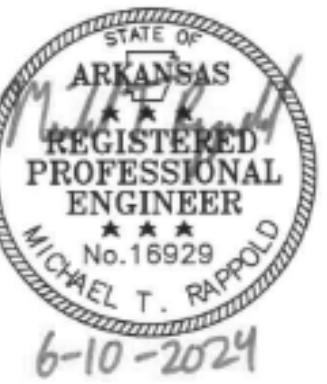
HSA JOB # 24-033



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



HSA HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com



Hight Jackson ASSOCIATES
5201 W Village Parkway, Suite 300, Rogers, Arkansas 72758 | (479) 464-4965 | www.hjarch.com

A REMODEL AND ADDITION FOR
BENTON CO. DETENTION CENTER
BENTONVILLE, AR

DRAWN BY: G.S.
CHECK BY: M.T.R.
ISSUE DATE: 06/10/2024

PROJECT NO: 2404

REVISION DATES
DATE DESCRIPTION
1 07/09/2024 ADDENDUM #2

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HSA HSAEngineering
479 / 452 / 8922 office
7405 Ellis St.
Fort Smith, AR 72916
HSAConsultants.com

PANEL SCHEDULE																				
Panel Name: LH										Panel Name: LH										
Amp Rating: 225 A Mains: MCB MCB Rating: 225 A Volts/Phase/Wire 120/208 Wye / 3 / 4										Manufacturer: GENERAL ELECTRIC Panel Type: Mounting: Surface Remarks: CU BUS										
Fault Rating: 22 KAIC Fed From: TH Location: UNIFORM STORAGE 103										Fault Rating: 22 KAIC Fed From: TH Location: UNIFORM STORAGE 103										
Circuit Description		COND. SIZE	WIRE SIZE	GRD. SIZE	# OF WIRES	POLES	TRIP	CKT	A	B	C	CKT	TRIP	POLES	# OF WIRES	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description	
R-PHARMACY 122	%	10	10	3	1	20	1	360	120			2	20	1	3	12	12	%	R-UNIFORM STORAGE 103	
R-PHARMACY 122A REFRIG	%	10	10	3	1	20	3			1200	360	4	20	1	3	12	12	%	R-DATA 102	
R-PHARMACY 122	%	10	10	3	1	20	5					6	20	1	3	12	12	%	R-DATA 102	
R-PHARMACY 122	%	10	10	3	1	20	7	360	360			8	20	1	3	12	12	%	R-DATA 102	
R-OFFICE 121	%	10	10	3	1	20	4			720	360	10	20	1	3	12	12	%	R-DATA 102	
R-NURSE 120	%	10	10	3	1	20	11			120	360	12	20	1	3	12	12	%	R-DATA 102	
R-NURSE 120	%	10	10	3	1	20	13	360	900			14	20	1	3	12	12	%	R-QUATERMASTER 100	
R-NURSE 120	%	10	10	3	1	20	15			360	540	16	20	1	3	12	12	%	R-SALLY PORT 103	
R-BREAK ROOM 114	%	10	10	3	1	20	17					18	20	1	3	12	12	%	R-SALLY PORT 103	
R-BREAK ROOM 114	%	10	10	3	1	20	19	180	540			20	20	1	3	10	10	%	R-SALLY PORT 103	
R-BREAK ROOM 114	%	10	10	3	1	20	21			180	540	22	20	1	3	10	10	%	R-R-SALLY PORT 103	
R-BREAK ROOM 114	%	10	10	3	1	20	23					24	20	1	3	12	12	%	SALLY PORT 103 OVERHEAD DOOR	
R-BREAK ROOM 114 REFRIGERATOR	%	10	10	3	1	20	25	1200	1500			26	20	1	3	12	12	%	SALLY PORT 103 OVERHEAD DOOR	
R-BREAK ROOM 114 & STORAGE 115	%	10	10	3	1	20	27			720	1500	28	20	1	3	10	10	%	SALLY PORT 103 OVERHEAD DOOR	
R-TLT 113, SCR 112, CORR	%	10	10	3	1	20	29					30	20	1	3	12	12	%	SALLY PORT 103 OVERHEAD DOOR	
R-MEDICAL EXAM 111	%	10	10	3	1	20	31	720	1500			32	20	1	3	12	12	%	SALLY PORT 103 OVERHEAD DOOR	
R-MEDICAL EXAM 111	%	10	10	3	1	20	33			540	1500	34	20	1	3	12	12	%	SALLY PORT 103 OVERHEAD DOOR	
R-MEDICAL EXAM 111 LIGHT	%	10	10	3	1	20	35			180	135	36	20	1	3	12	12	%	EF-6 TRIAGE 104	
R-DENTAL EXAM 110	%	10	10	3	1	20	37	900	800			38	20	1	3	10	10	%	IH-1 & IH-2 SALLY PORT	
R-DENTAL EXAM 110 LIGHT	%	10	10	3	1	20	39			180	1391	40	20	1	3	10	10	%	EF-1 TOILET, EF-2 DATA, EF-5 UNIL...	
R-DENTAL EXAM 110	%	10	10	3	1	20	41					42	25	1	3	10	10	%	F-2 SALLY PORT	
R-TRIAGE 104	%	12	12	3	1	20	43	180	1656			44	25	1	3	10	10	%	F-1 SALLY PORT	
R-TRIAGE 104 LIGHT	%	12	12	3	1	20	45			180	1200	46	20	1	3	12	12	%	CO/NO2 MONITORING SYST SALLY...	
R-TRIAGE 104	%	12	12	3	1	20	47					48	20	1	3	10	10	%	DOOR POWER	
R-TRIAGE 104	%	12	12	3	1	20	49	540	1664			50	25	2	4	10	10	%	CU-2 ROOF	
R-MENTAL 116	%	10	10	3	1	20	51					52	--	--	--	--	--	--	--	
R-MENTAL 116 LIGHT	%	10	10	3	1	20	53			720	1664	54	20	1	--	--	--	--	Spare	
R-MENTAL 116	%	10	10	3	1	20	55	180	0			56	20	1	--	--	--	--	Spare	
R-MENTAL 117	%	12	12	3	1	20	57			720	0	58	20	1	--	--	--	--	Spare	
R-MENTAL 117 LIGHT	%	12	12	3	1	20	59					60	20	1	--	--	--	--	Spare	
R-BLOOD 105	%	12	12	3	1	20	61	180	0			62	20	1	--	--	--	--	Spare	
R-BLOOD 105	%	12	12	3	1	20	63			540	0	64	20	1	--	--	--	--	Spare	
R-BLOOD 105	%	12	12	3	1	20	65					66	20	1	--	--	--	--	Spare	
R-SCANNER 106	%	12	12	3	1	20	67	360	0			68	20	1	--	--	--	--	Spare	
R-SCANNER 106	%	12	12	3	1	20	69			900	0	70	20	1	--	--	--	--	Spare	
R-SCANNER 106	%	12	12	3	1	20	71					72	20	1	--	--	--	--	Spare	
R-SCANNER 106 MACHINE	%	12	12	3	1	20	73	180	0			74	20	1	--	--	--	--	Spare	
R-FPROPERTY STOR 104	%	12	12	3	1	20	75			540	0	76	20	1	--	--	--	--	Spare	
Spare	--	--	--	--	--	--	--	1	20	77			78	20	1	--	--	--	--	Spare
Spare	--	--	--	--	--	--	--	1	20	79	0	0								SPD
Spare	--	--	--	--	--	--	--	1	20	81			82	--	--	--	--	--	--	--
Spare	--	--	--	--	--	--	--	1	20	83			84	--	--	--	--	--	--	--
Total Load: 15340 VA									Total Load: 16555 VA									Total Load: 11991 VA		
Total Amps: 132 A									Total Amps: 142 A									Total Amps: 100 A		
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals												
Lighting	0 VA	0.00%	0 VA	Total Conn. Load: 43886 VA		Total Est. Demand: 37156 VA		Total Conn. Current: 125 A												
Receptacle	23460 VA	71.31%	16730 VA	Total Est. Demand Current: 103 A																
HVAC	6640 VA	100.00%	6640 VA																	
Motor	0 VA	0.00%	0 VA																	
Other	13786 VA	100.00%	13786 VA																	
Kitchen	0 VA	0.00%	0 VA																	

PANEL SCHEDULE																				
Panel Name: HH										Panel Name: HH										
Amp Rating: 200 A Mains: MLO MCB Rating: N/A Volts/Phase/Wire 480/277 Wye / 3 / 4										Manufacturer: GENERAL ELECTRIC Panel Type: Mounting: Surface Remarks: CU BUS										
Fault Rating: SERIES Fed From: Location: UNIFORM STORAGE 103										Fault Rating: SERIES Fed From: Location: UNIFORM STORAGE 103										
Circuit Description		COND. SIZE	WIRE SIZE	GRD. SIZE	# OF WIRES	POLES	TRIP	CKT	A	B	C	CKT	TRIP	POLES	# OF WIRES	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description	
** L-EXTERIOR WALL PACK	%	12	12	3	1	20	1	1512	2767			2	15	3	5	12	12	%	RTU-1	
L-SALLY PORT	%	12	12	3	1	20	3			804	2767	4	--	--	--	--	--	--	--	
L-SALLY PORT	%	12	12	3	1	20	5					6	--	--	--	--	--	--	--	
L-RMS 100-107	%	12	12	3	1	20	7	1563	2213			8	15	3	5	12	12	%	CU-1	
L-RMS 109-123	%	12	12	3	1	20	9			1656	2213	10	--	--	--	--	--	--	--	
PROPERTY STOR 104 CONVEYOR	%	12	12	5	3	20	11			4427	2213	12	--	--	--	--	--	--	--	
Spare	--	--	--	--	--	--	--	13	4427	636			14	15	3	5	12	12	%	EF-3
Spare	--	--	--	--	--	--	--	15			4427	636	16	--	--	--	--	--	--	
Spare	--	--	--	--	--	--	--	1	20	17			18	--	--	--	--	--	--	
Spare	--	--	--	--	--	--	--	1	20	19	0	636								EF-4
Spare	--	--	--	--	--	--	--	1	20	21			22	--	--	--	--	--	--	
Spare	--	--	--	--	--	--	--	1	20	23			24	--	--	--	--	--	--	
Spare	--	--	--	--	--	--	--	1	20	25	0	0								Spare
Spare	--	--	--	--	--	--	--	1	20	27			28	--	--	--	--	--	--	
Spare	--	--	--	--	--	--	--	1	20	29			30	--	--	--	--	--	--	
Spare	--	--	--	--	--	--	--	1	20	31	0	--								Space
Spare	--	--	--	--	--	--	--	1	20	33			34	--	--	--	--	--	--	Space
Spare	--	--	--	--	--	--	--	1	20	35			36	--	--	--	--	--	--	Space
TRANSFORMER TH	*	*	*	5	3	125	37	15340	--			38	--	--	--	--	--	--	--	Space
Spare	--	--	--	--	--	--	--	39			16555	--								Space
Spare	--	--	--	--	--	--	--	41				11991	--							Space
Spare	--	--	--	--	--	--	--	42				42	--	--	--	--	--	--	--	Space
Total Load: 24005 VA									Total Load: 23694 VA									Total Load: 23474 VA		
Total Amps: 108 A									Total Amps: 110 A									Total Amps: 85 A		
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals												
Lighting	6278 VA	125.00%	7849 VA	Total Conn. Load: 82174 VA		Total Est. Demand: 66544 VA		Total Conn. Current: 101 A												
Receptacle	36740 VA	63.61%	23370 VA	Total Est. Demand Current: 80 A																
HVAC	21580 VA	100.00%	21580 VA																	
Motor	0 VA	0.00%	0 VA																	
Other	13786 VA	100.00%	13786 VA																	
Kitchen	0 VA	0.00%	0 VA																	

NOTES:
NOTE : FIXTURES NOTED AS 'CTBS' SHOULD BE PRICED TO ALLOW FOR CUSTOM COLORS.
NOTE : HOLD ALL INSULATION OFF RECESSED FIXTURES AND A MINIMUM OF 3" TO THE SIDE.
NOTE : EXIT LIGHTS AND EMERGENCY LIGHTS REQUIRES UNSWITCHED HOT WIRE PER MANUFACTURERS RECOMMENDATION.
NOTE : EM OR NL DENOTES EMERGENCY BATTERY PACK GOOD FOR MINIMUM OF 1.5 HOURS.
NOTE : ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DRIVER AND LEDS THAT WILL PROVIDE THE OWNER WITH A FIVE YEAR WARRANTY.