

GENERAL NOTES

- ALL WORK SHALL MEET THE MINIMUM REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE APPLICABLE CODES, AS INDICATED ON THIS SHEET AND ALL OTHER LOCAL, STATE OR FEDERAL CODES OR REGULATIONS HAVING JURISDICTION.
- DIMENSIONS SHOWN FOR EXTERIOR DOORS AND WINDOWS ARE TO EDGE OF FRAME UNLESS OTHERWISE NOTED.
- ALL INTERIOR DIMENSIONS GIVEN ARE FROM FACE OF STUD OR CENTERLINE OF COLUMN UNLESS NOTED OTHERWISE.
- PROVIDE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10; REFERENCE SPECIFICATIONS: INSTALL FIRE EXTINGUISHERS FEW FEET AT 4'-0" AFF TO TOP OF CABINET. GENERAL CONTRACTOR TO COORDINATE FINAL LOCATIONS WITH FIRE MARSHALL AND ARCHITECT.
- DO NOT SCALE DRAWINGS. CLARIFY ANY DIMENSIONAL DISCREPANCIES WITH THE ARCHITECT PRIOR TO CONTINUING WITH THE WORK.
- CLARIFY ANY COORDINATION DISCREPANCIES BETWEEN ENGINEER DRAWINGS AND ARCHITECTURAL DRAWINGS WITH THE ARCHITECT PRIOR TO CONTINUING WITH THE WORK.
- ALL WORK LISTED, SHOWN OR IMPLIED ON THE CONSTRUCTION DOCUMENTS SHALL BE SUPPLIED AND INSTALLED BY THE GENERAL CONTRACTOR EXCEPT WHERE OTHERWISE NOTED.
- ALL WOOD BLOCKING SHALL BE COORDINATED BY THE GENERAL CONTRACTOR.
- ALL INTERIOR WALLS TO BE 5/8" UNLESS NOTED OTHERWISE.

SHEET KEYNOTES

- METAL STUD TO BE CENTERED ON COLUMN LINE.
- ALIGN FINISH FACE OF ADJACENT WALLS.
- METAL STUD TO BE CENTERED ON MULLION.
- ARCHITECTURAL WALL BY FURNITURE VENDOR; WALLS, DOORS, AND HARDWARE NOT IN SCOPE. GC TO INSTALL FINISH OPENING AS DRAWN.
- SECURITY GRILLE.
- GC TO COORDINATE RECESSED AND SEMIRECESSED TLT ACCESSORIES WITH FRAMER AND ACCESSORY INSTALLER.
- KNOX BOX, COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT.
- FRY RIGLET.
- RFD GATES NOT IN GC SCOPE; GC SHALL COORDINATE REQUIREMENT PRIOR TO SLAB POUR.

ALTERNATES

- MEETING ROOM OPERABLE PARTITION**
BASE BID: INSTALL WALL SA6 BETWEEN MEETING ROOM AND PROGRAM ROOM.
ALTERNATE: INSTALL OPERABLE PARTITION, REQUIRED STRUCTURE, AND CEILING SOUND Baffles AS INDICATED ON DRAWINGS, REF SHEET A910, S901, AND CONTROLS ON E110.
- WEST SIDE CANOPY**
BASE BID: OMIT PREMANUFACTURED CANOPY AT WEST SIDE OF BUILDING.
ALTERNATE: INSTALL PREMANUFACTURED CANOPY ALONG WEST SIDE OF THE BUILDING AS DRAWN.
- CLERESTORY WINDOWS**
BASE BID: OMIT CLERESTORY WINDOWS SF8 AND SF9 FROM SCOPE; INSTALL METAL PANEL FINISH TO MATCH ADJACENT CONSTRUCTION.
ALTERNATE: PROVIDE AND INSTALL CLERESTORY WINDOWS SF8 AND SF9 AS DRAWN.
- CHILDREN'S PORCH FLOORING**
BASE BID: INSTALL SLAB ON GRADE AS INDICATED IN CIVIL DRAWINGS, NO ADDITIONAL FINISH TO BE PROVIDED.
ALTERNATE: ARCHITECT AND CIVIL ENGINEER TO COORDINATE SLAB HEIGHT TO ACCOMMODATE RUBBER FLOORING INSTALLATION AT CHILDREN'S PORCH AREA; REFERENCE D880 FOR PRODUCT INFORMATION.



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ISSUE DATE: 2024.06.28

PHASE: CONSTRUCTION DOCUMENTS

SHEET ISSUE:

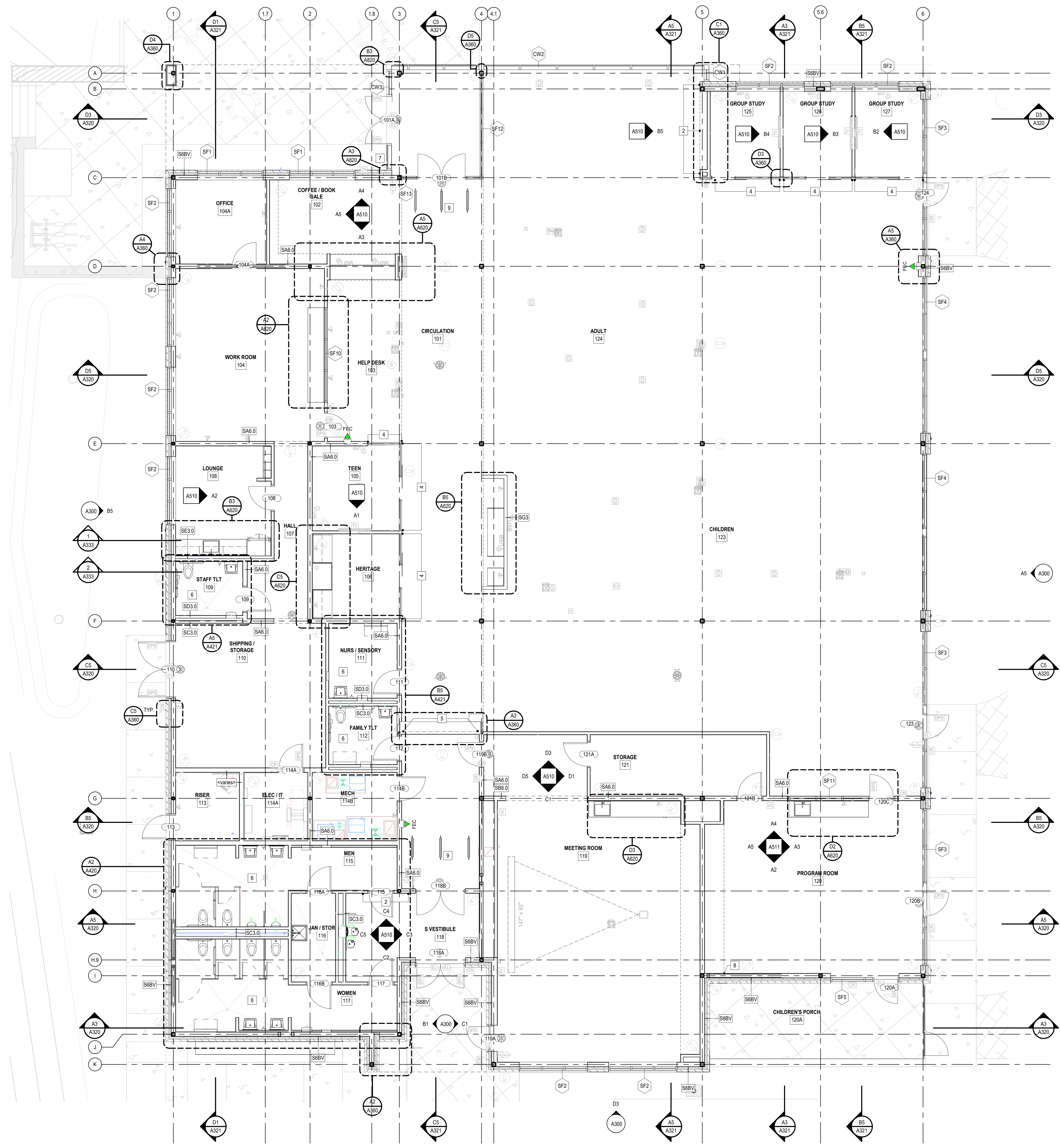
NO.	DATE	DESCRIPTION
A	2024.01.17	SCHEMATIC DESIGN
B	2024.04.10	DESIGN DEVELOPMENT
C	2024.06.28	CONSTRUCTION DOCUMENTS PRICING

PRINCIPAL IN CHARGE: DRM
PROJECT ARCHITECT: AMG
DRAWN BY: AMG

SHEET TITLE: ANNOTATION PLAN

SHEET NO. PROJ. NO. 023432

A110



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A5 ANNOTATION PLAN
A110 3/16" = 1'-0"

ISSUE DATE:	2024.06.28	
PHASE:	CONSTRUCTION DOCUMENTS	
SHEET ISSUE:		
NO.	DATE	DESCRIPTION
B	2024.04.10	DESIGN DEVELOPMENT
C	2024.06.28	CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE: DRM
PROJECT ARCHITECT: AMG
DRAWN BY: KW

SHEET TITLE:
DIMENSION PLAN

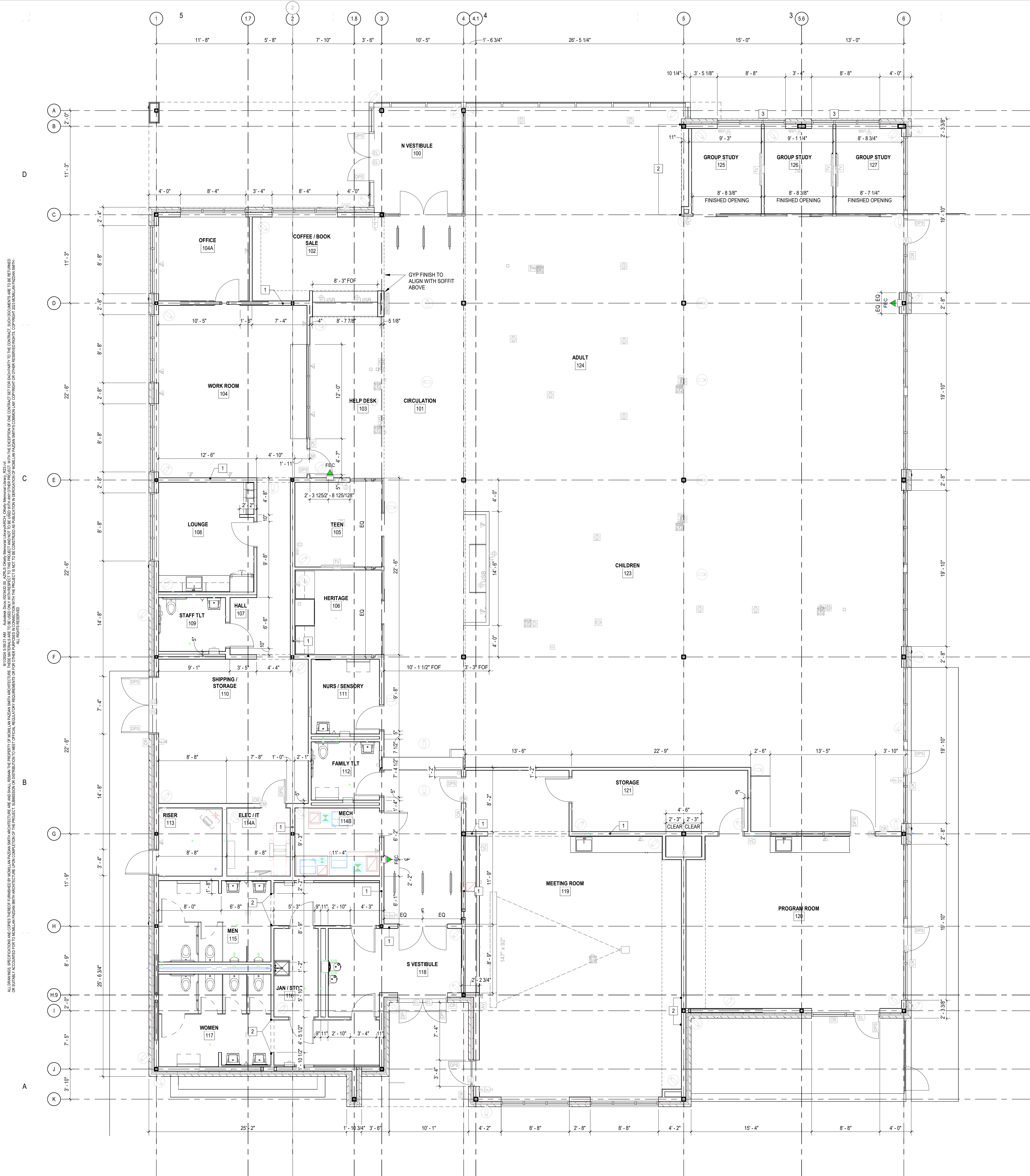
SHEET NO. PROJ. NO.
A111 023432

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- PROVIDE FIRE EXTINGUISHERS IN ACCORDANCE W/ NFPA 10; REFERENCE SPECIFICATIONS: INSTALL FIRE EXTINGUISHERS (FE/FEC) AT 4'-0" AFF TO TOP OF CABINET. GENERAL CONTRACTOR TO COORDINATE FINAL LOCATIONS WITH FIRE MARSHALL AND ARCHITECT.
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- ALL INTERIOR WALLS TO BE S4S UNLESS NOTED OTHERWISE.

SHEET KEYNOTES

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- ALIGN FINISH FACE OF ADJACENT WALLS.
- METAL STUD TO BE CENTERED ON MULLION.
- ARCHITECTURAL WALL BY FURNITURE VENDOR; WALLS, DOORS, AND HARDWARE NOT IN SCOPE. GC TO INSTALL FINISH OPENING AS DRAWN.
- SECURITY GRILLE
- GC TO COORDINATE RECESSED AND SEMIRECESSED TLT ACCESSORIES WITH FRAMER AND ACCESSORY INSTALLER
- KNOX BOX, COORDINATE FINAL LOCATION WITH LOCAL FIRE DEPARTMENT
- FRY REGLET
- RFD GATES NOT IN GC SCOPE. GC SHALL COORDINATE REQUIREMENT PRIOR TO SLAB POUR.



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A5 DIMENSION PLAN
A111 3/16" = 1'-0"

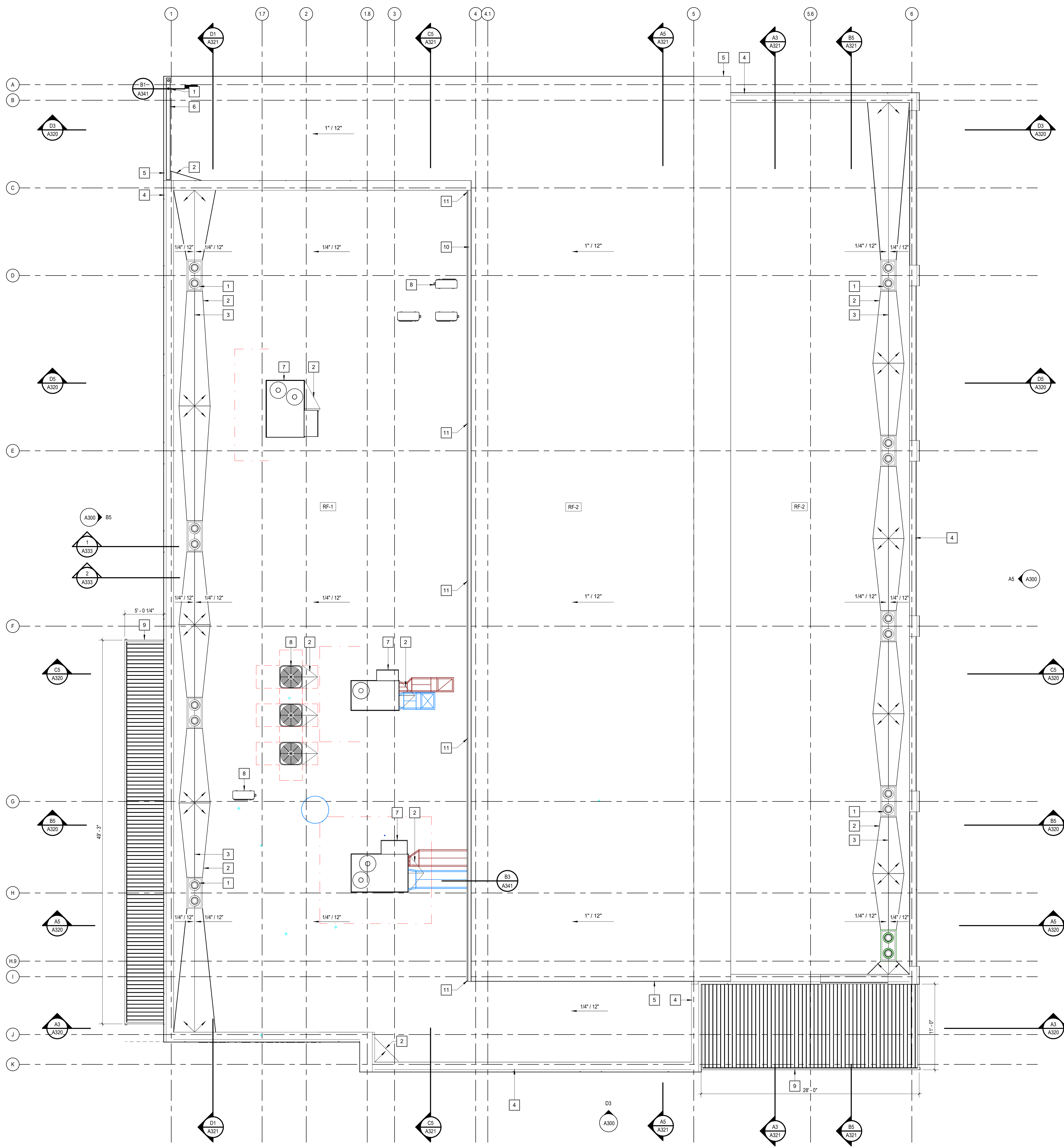
GENERAL NOTES

- COORDINATE WITH PLUMBING AND MECHANICAL DRAWINGS FOR ROOF PENETRATIONS.
- COORDINATE WITH PLAN AND ELEVATION DRAWINGS FOR LOCATION OF DOWNSPOUTS.
- ALL VENTS THROUGH ROOF SHALL BE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR AND FLASHED BY ROOFING CONTRACTOR.

SHEET KEYNOTES

KEY	DESCRIPTION
1	COMBINATION ROOF DRAIN WITH SECONDARY OVERFLOW DRAIN. SEE PLUMBING, TYPICAL.
2	TAPERED INSULATION ROOF CRICKET, TYPICAL.
3	VALLEY LINE CENTERED TO ROOF DRAINS, TYPICAL.
4	PREFABRICATED METAL COPING.
5	GRAVEL STOP METAL EDGE SYSTEM.
6	CONCEALED GUTTER.
7	MECHANICAL UNIT ON PREMANUFACTURED CURB, SEE MECHANICAL.
8	MECHANICAL UNIT ON PREMANUFACTURED EQUIPMENT PAD, SEE MECHANICAL, TYPICAL.
9	PRE-FABRICATED ANODIZED ALUMINUM CANOPY.
10	GUTTER WITH END CAP AND DEBRIS GUARD.
11	DOWNSPOUT.

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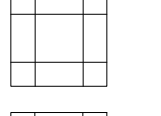
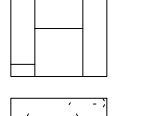


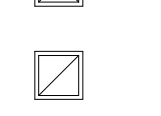

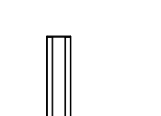


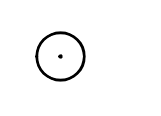
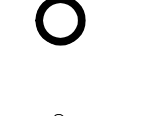







1 ROOF PLAN
A120 3/16" = 1'-0"

REFLECTED CEILING PLAN NOTES

1. REFERENCE ELECTRICAL DRAWINGS FOR WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
2. CONTRACTOR TO CENTER SUSPENDED ACOUSTICAL CEILING GRIDS IN ROOMS AS INDICATED ON THE DRAWINGS.
3. ALL CEILING DEVICES SMALLER THAN 2' X 2' WHICH ARE LOCATED IN SUSPENDED ACOUSTICAL TILE CEILINGS SHALL BE CENTERED WITHIN THE TILE.
4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL UTILITY SYSTEMS WITH THE ARCHITECTURAL DRAWINGS. THESE SYSTEMS INCLUDE, BUT ARE NOT LIMITED TO: MECHANICAL DUCTWORK, GRILLS, DIFFUSERS, ELECTRICAL CONDUIT, CEILING MOUNTED DEVICES, PIPING, EQUIPMENT, AND FIXTURES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PREPARE FOR REVIEW AND APPROVAL TO ANY CONSTRUCTION OR INSTALLATION OF ANY SYSTEM COMPONENTS IN THE SUSPENDED ACOUSTICAL CEILING GRID. COORDINATION DRAWINGS OF ALL ASSOCIATED SYSTEMS, LOCATIONS OF COMPONENTS INDICATED ON THE DRAWINGS ARE APPROXIMATE. IS IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE LOCATIONS WITH ALL SUBCONTRACTORS AND ASSOCIATED TRADES DURING THE SUBMITTAL PROCESS AND BEFORE THE COMMENCEMENT OF ANY COMPONENT INSTALLATION. THE ARCHITECT MUST APPROVE ANY MODIFICATIONS TO COMPONENT LOCATIONS PRIOR TO CONSTRUCTION.

CEILING LEGEND

-  CLG-1 ACOUSTIC CEILING GRID AND TILE, 2x2 AS DRAWN REF INTERIOR FINISH SCHEDULE
-  CLG-2 ACOUSTIC CEILING GRID AND TILE, 24" X 96" REF INTERIOR FINISH SCHEDULE
-  CLG-3 GYPSUM BOARD ON METAL STUD FRAMING REF INTERIOR FINISH SCHEDULE
-  EXPOSED ROOF DECK ABOVE
-  SUPPLY GRILLE, SEE MECHANICAL DWGS.
-  RETURN GRILLE, SEE MECHANICAL DWGS.
-  EXHAUST GRILLE, SEE MECHANICAL DWGS.
-  LINEAR SLOT DIFFUSER, SEE MECHANICAL DWGS.
-  1x4 LED TROFFER, SEE ELECTRICAL DWGS.
-  LED LINEAR, RECESSED SEE ELECTRICAL DWGS.
-  LED SUSPENDED SEE ELECTRICAL DWGS.
-  T-MOUNTED LINEAR SEE ELECTRICAL DWGS.
-  HIGH BAY PENDANT SEE ELECTRICAL DWGS.
-  SURFACE MOUNT EXTERIOR SEE ELECTRICAL DWGS.
-  DOWNTIGHT, RECESSED SEE ELECTRICAL DWGS.
-  EXIT SIGNAGE, SEE ELECTRICAL DWGS.

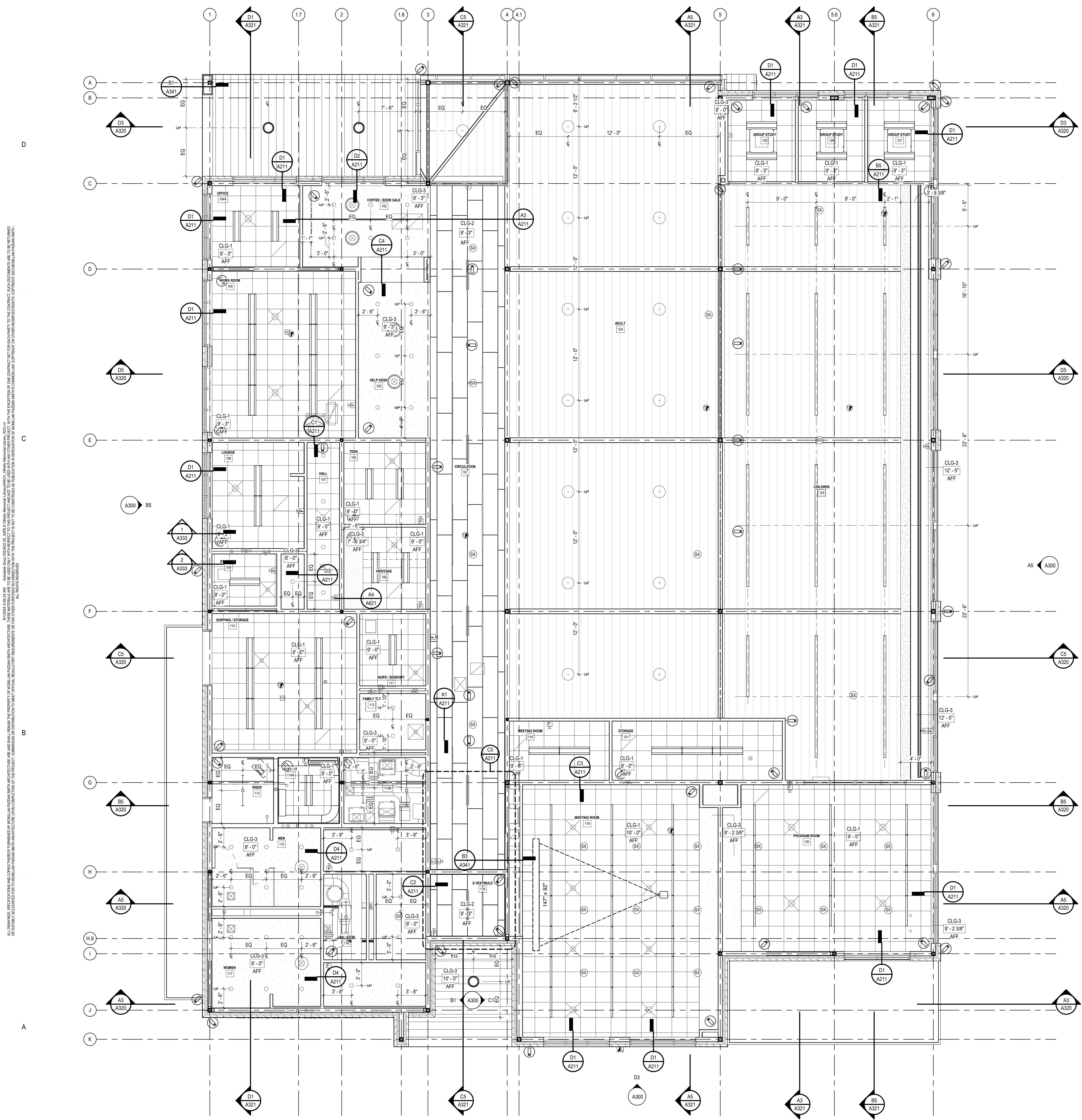
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		PRICING

PRINCIPAL IN CHARGE: DRM
 PROJECT ARCHITECT: AMG
 DRAWN BY: AMG

SHEET TITLE:
REFLECTED CEILING PLAN

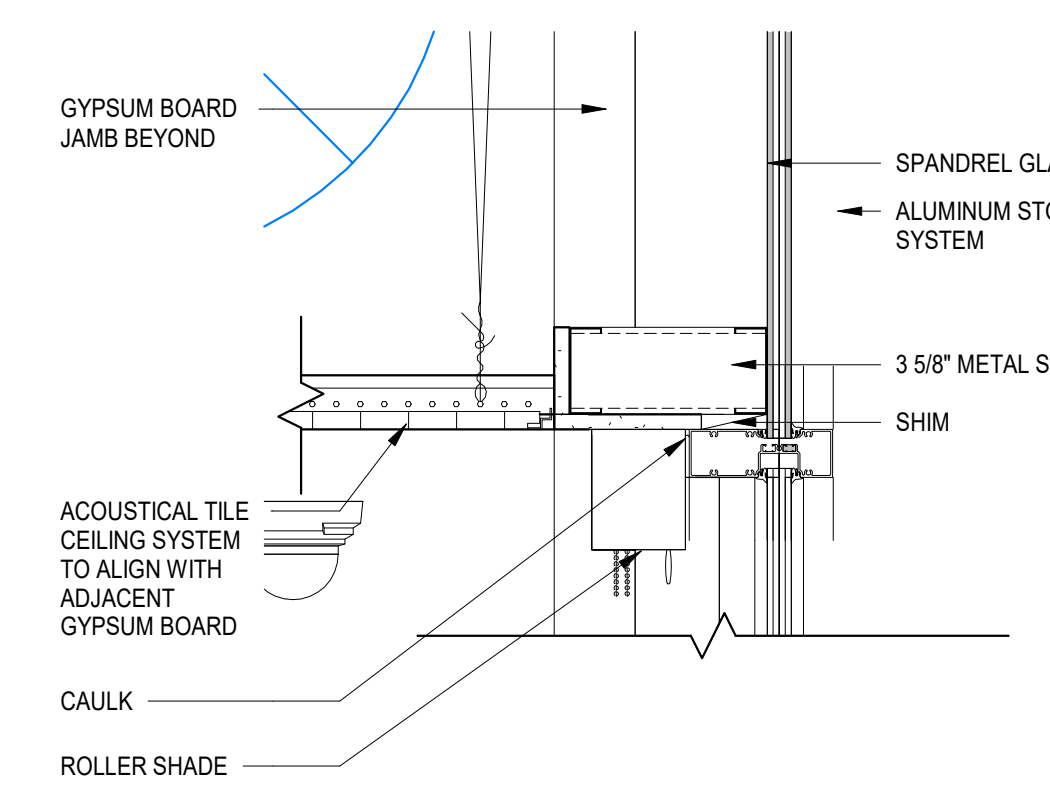
SHEET NO. PROJ. NO.
 023432

A210

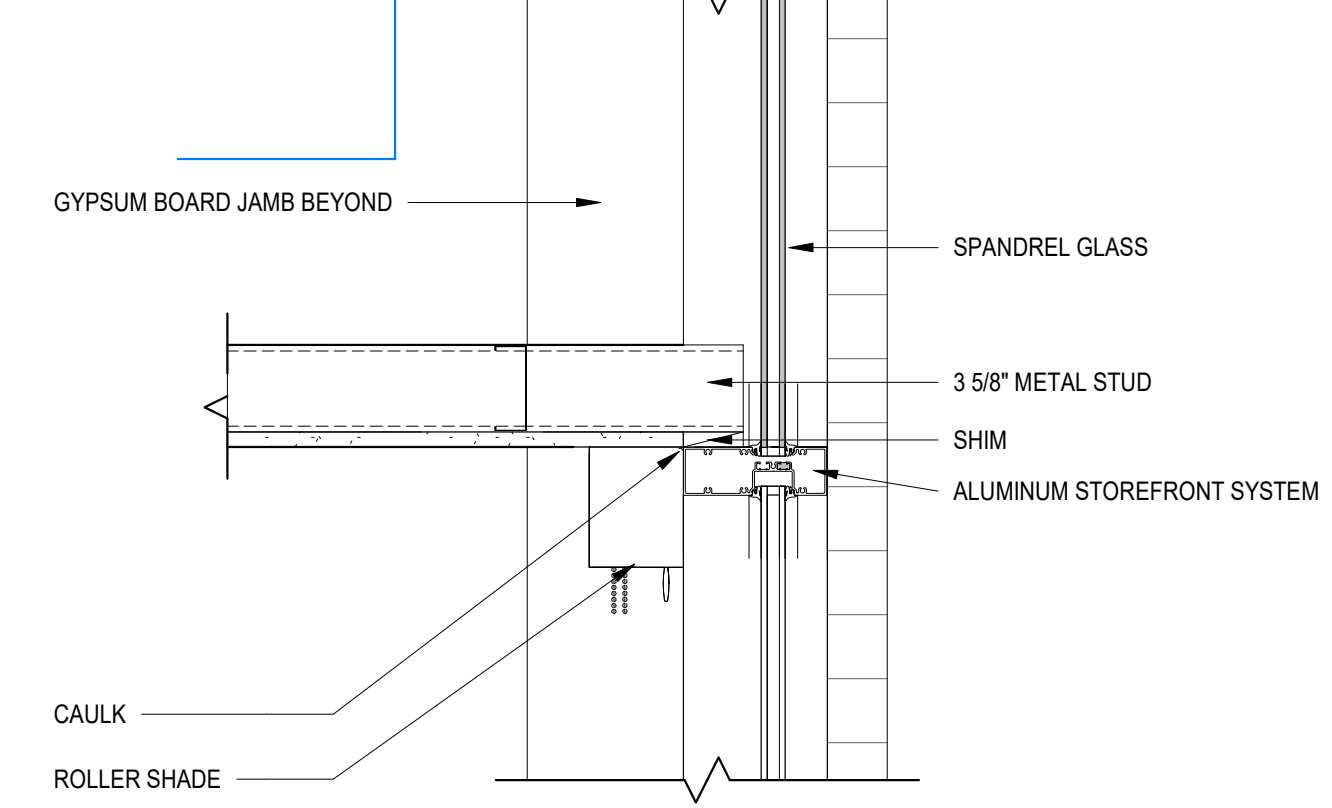


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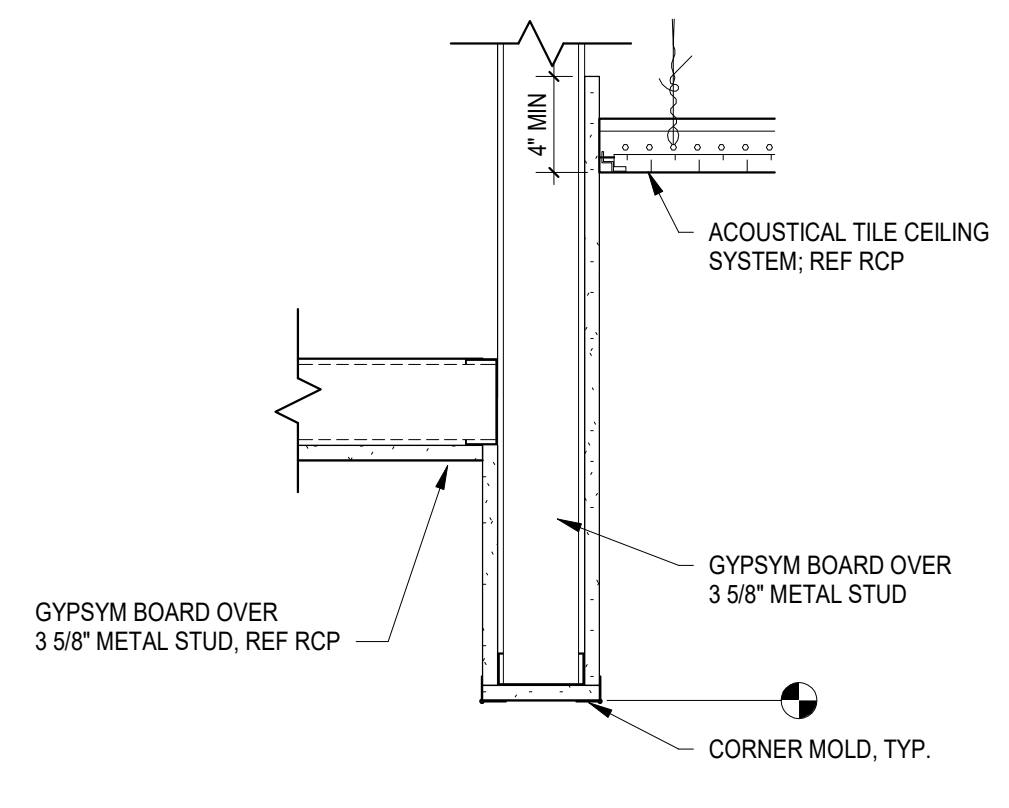
A5 REFLECTED CEILING PLAN
 3/16" = 1'-0"



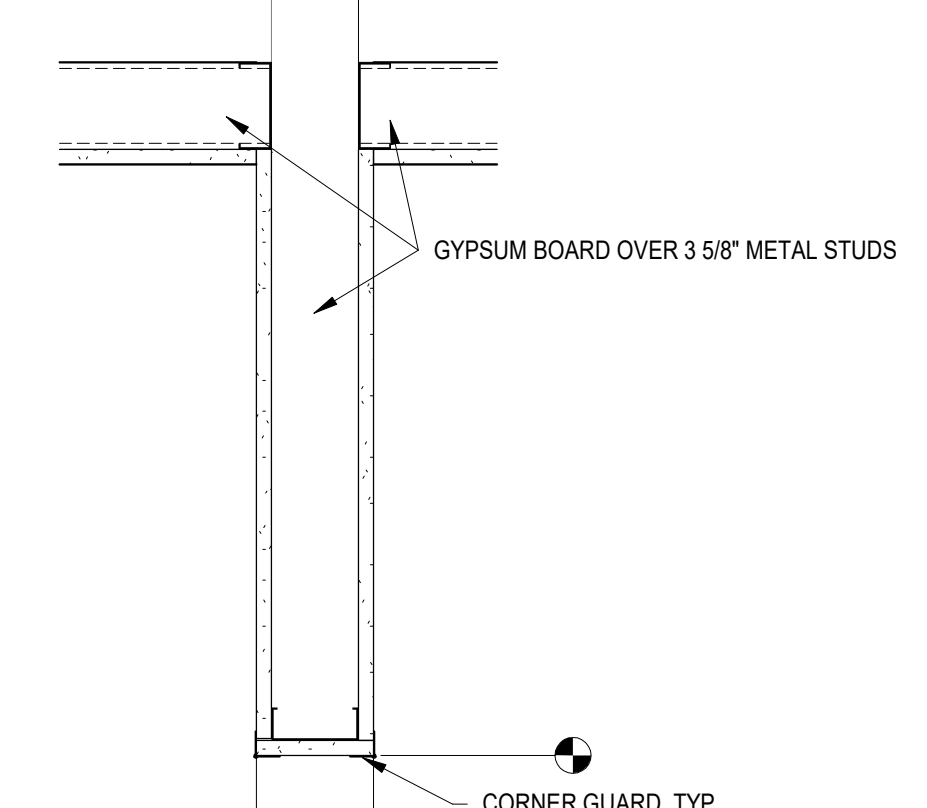
D1
1 1/2" = 1'-0"



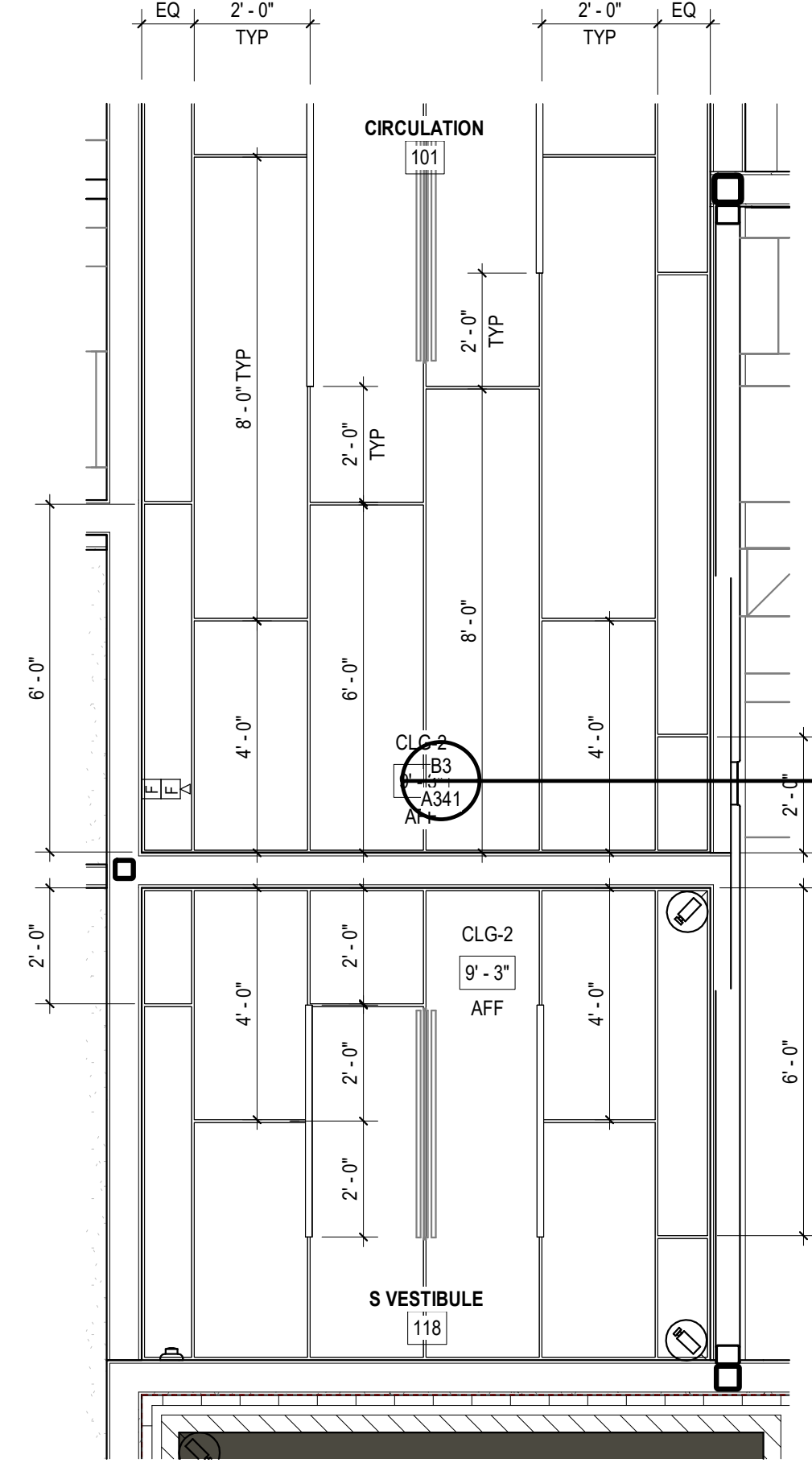
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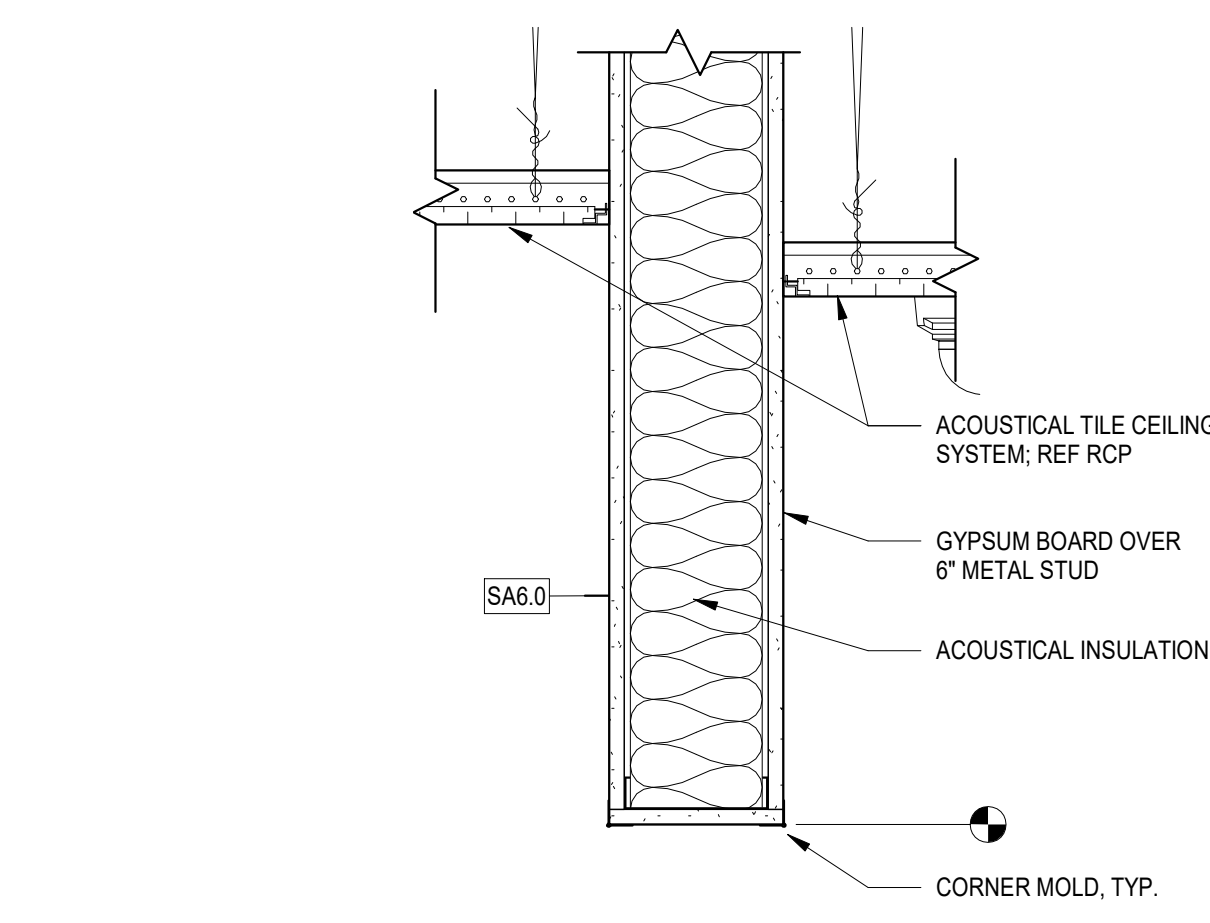
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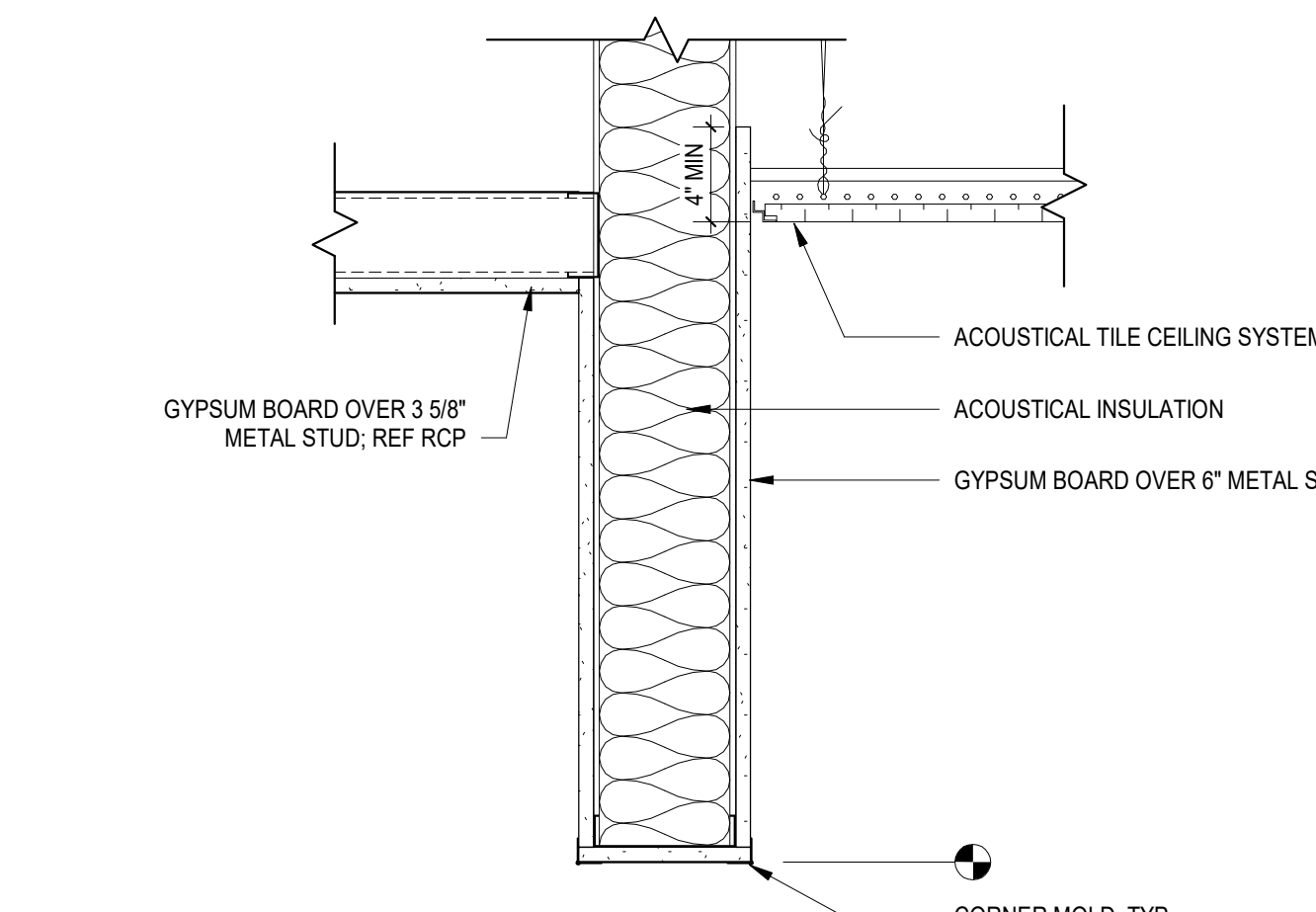
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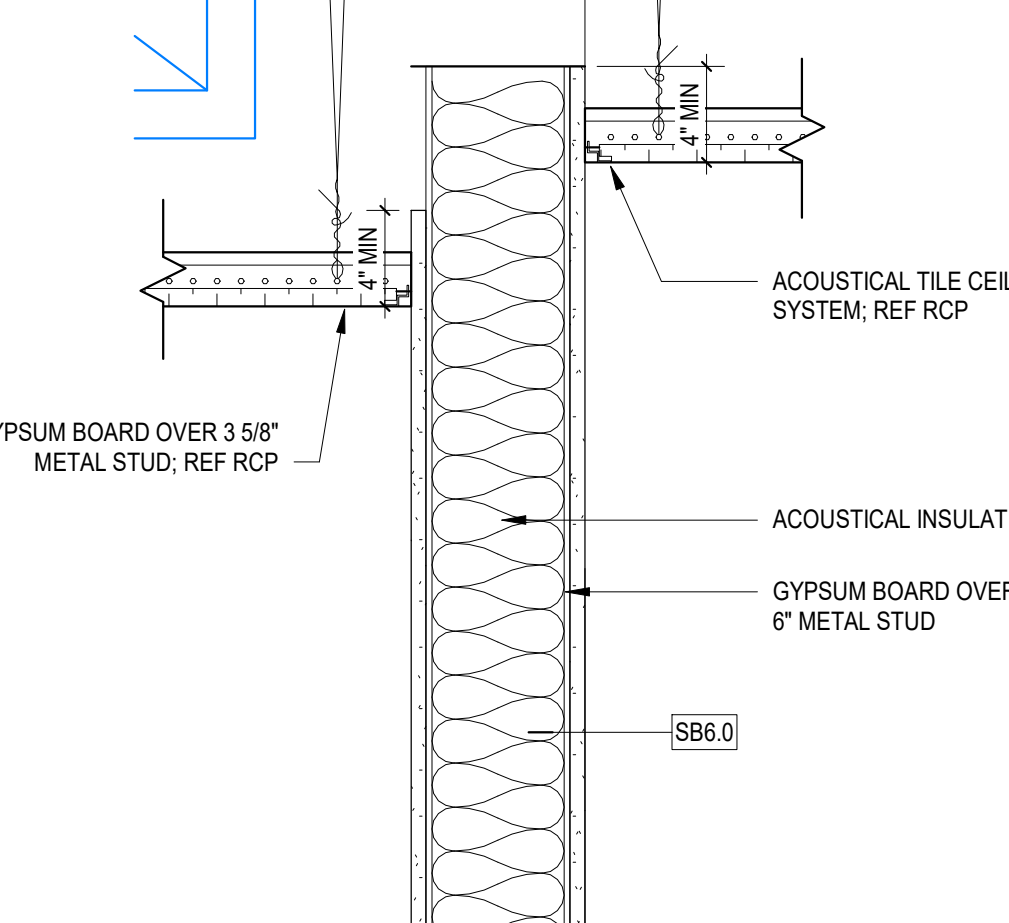
C5
3/8" = 1'-0"



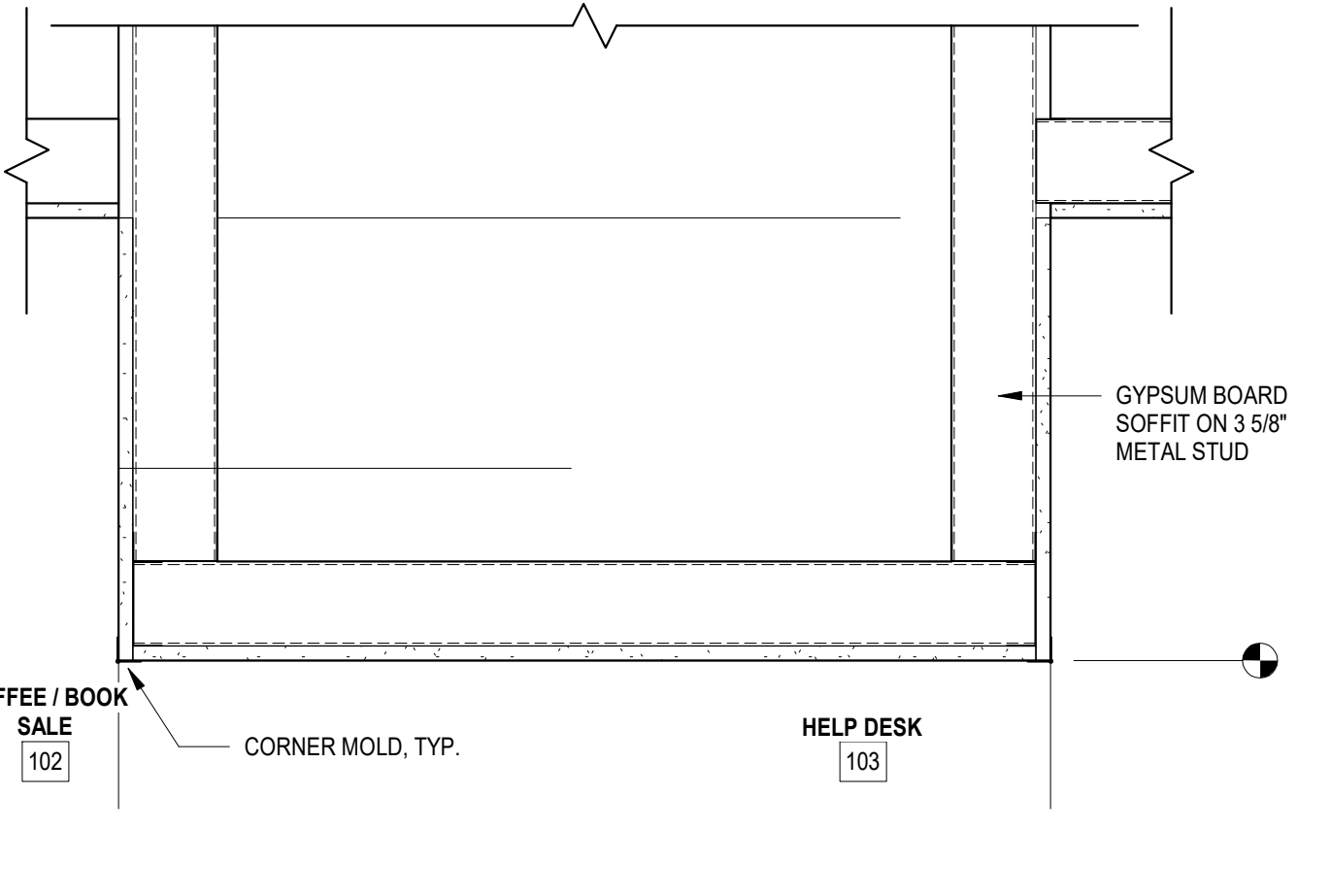
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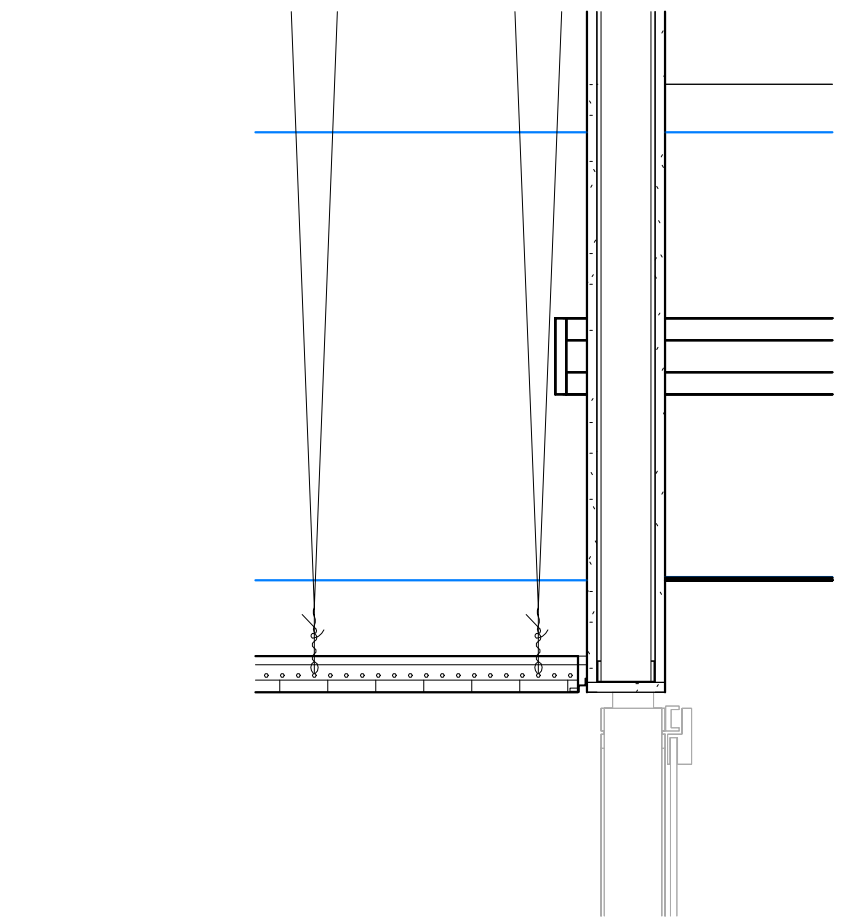
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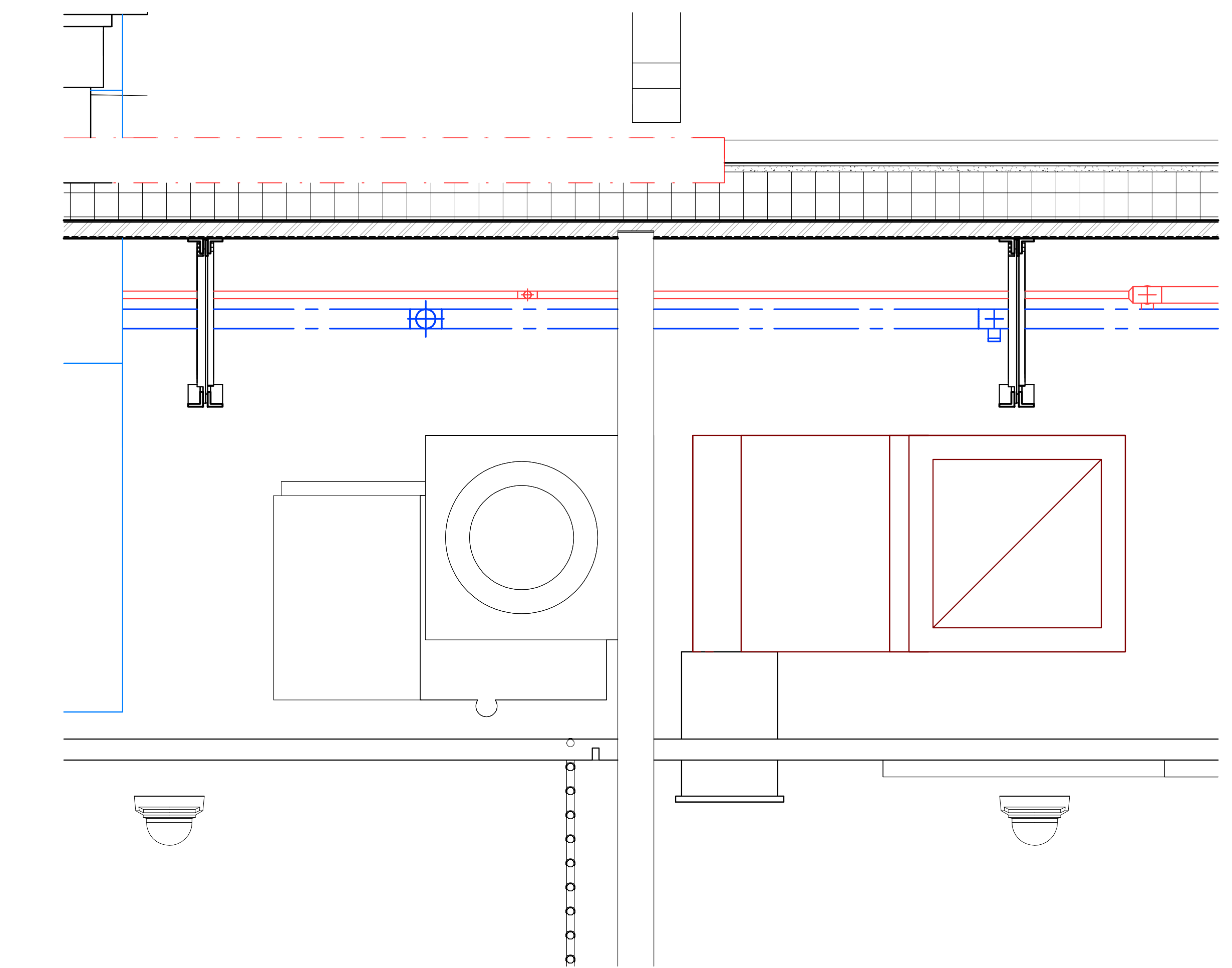
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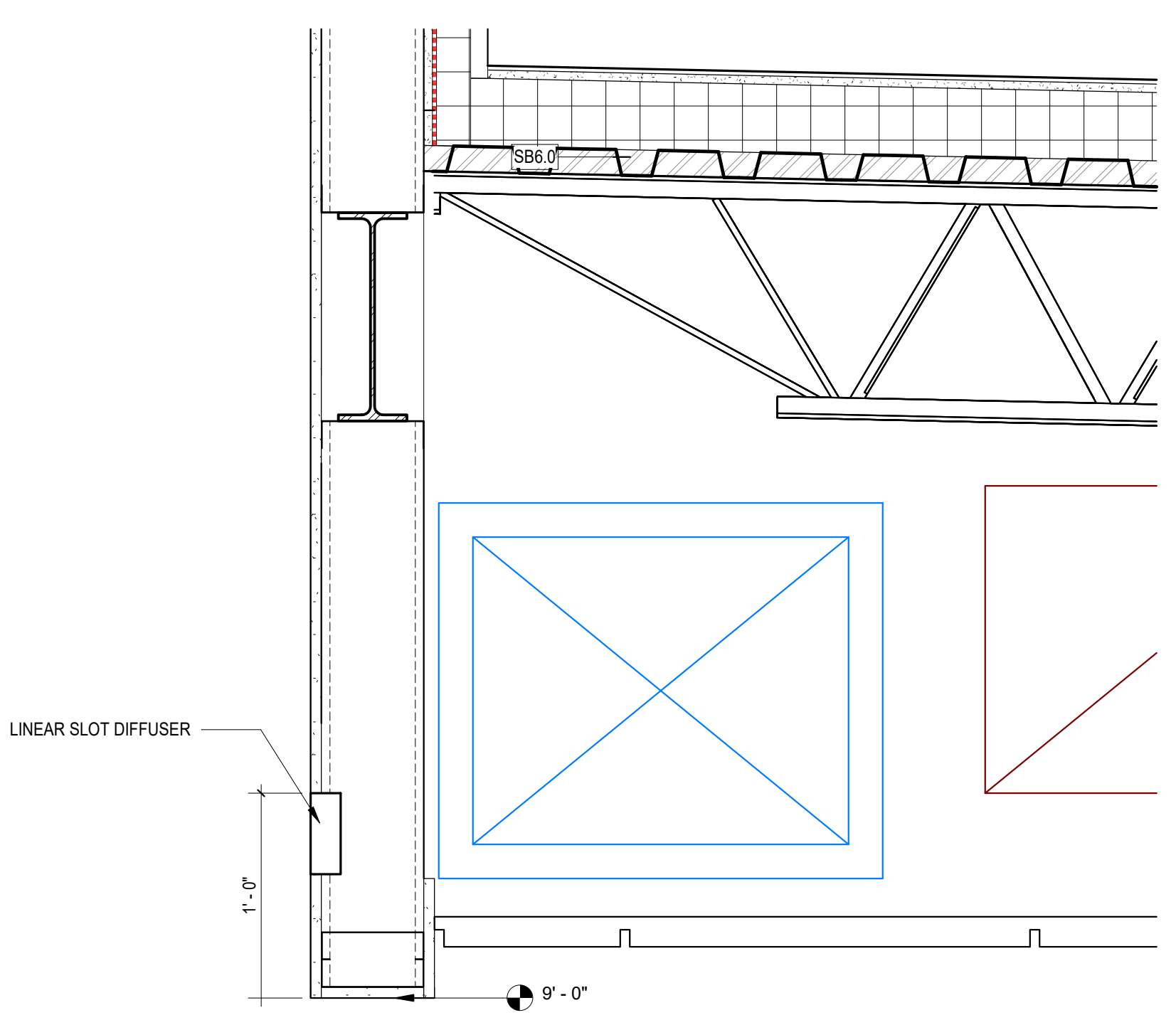
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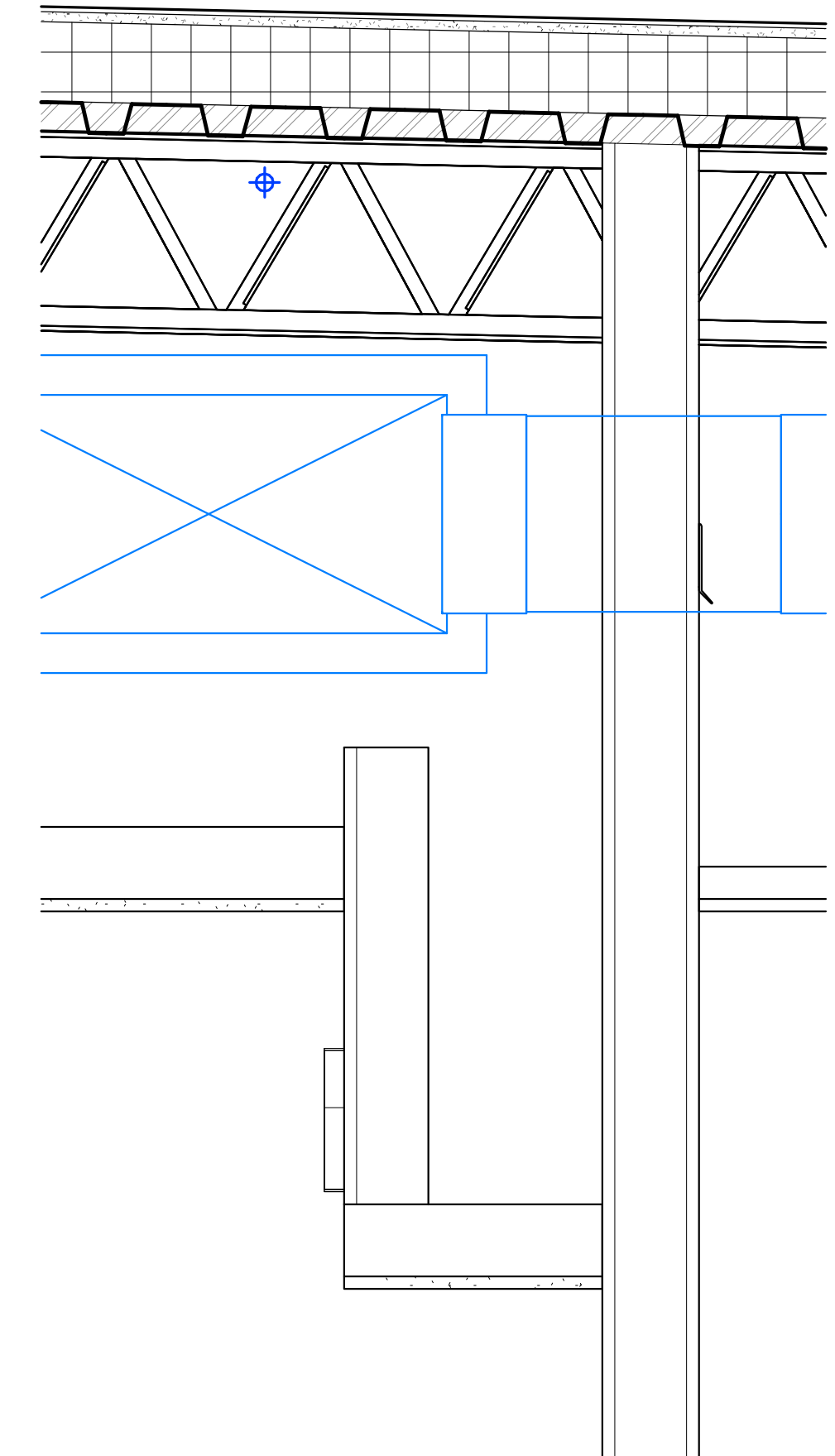
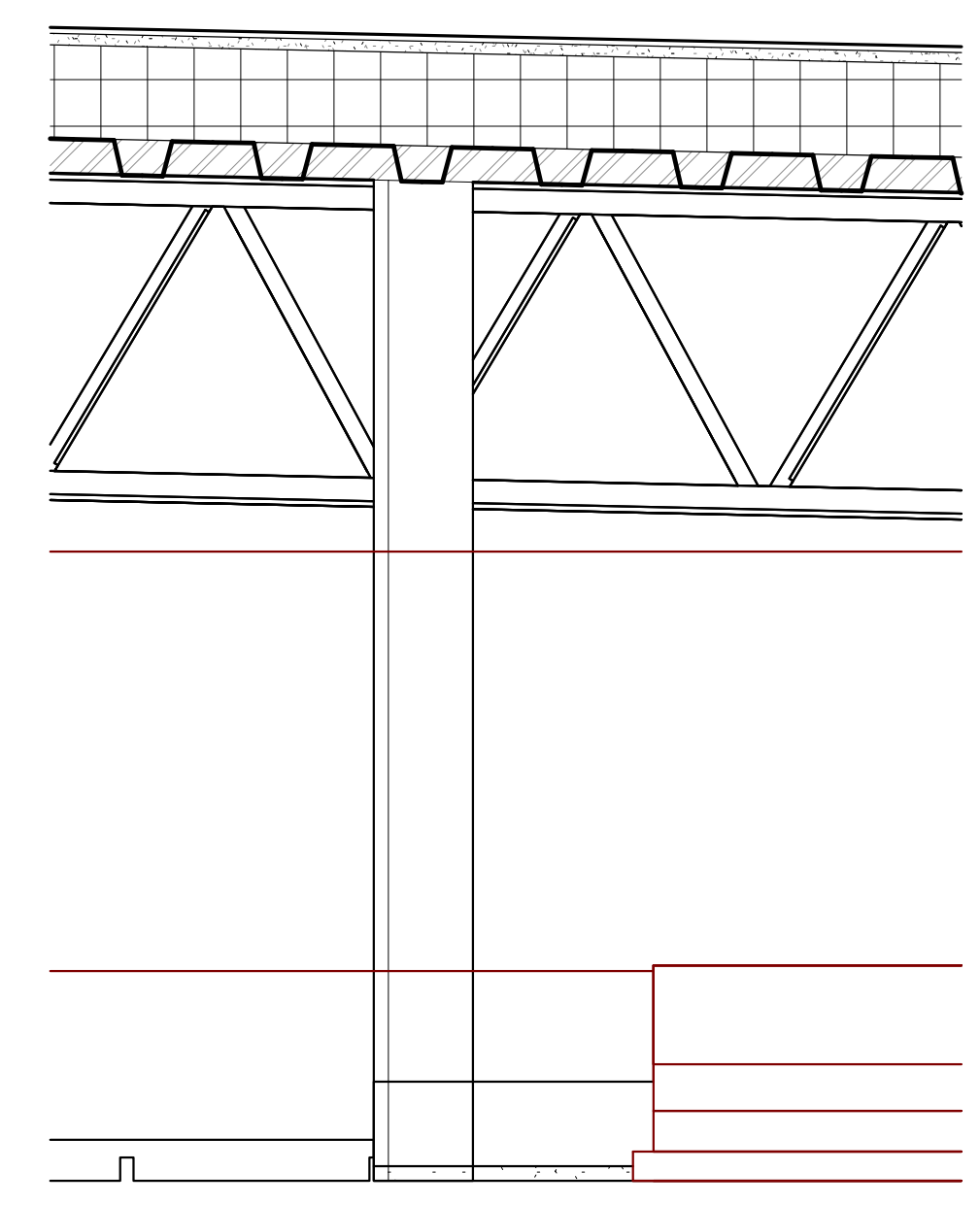
B5
1" = 1'-0"



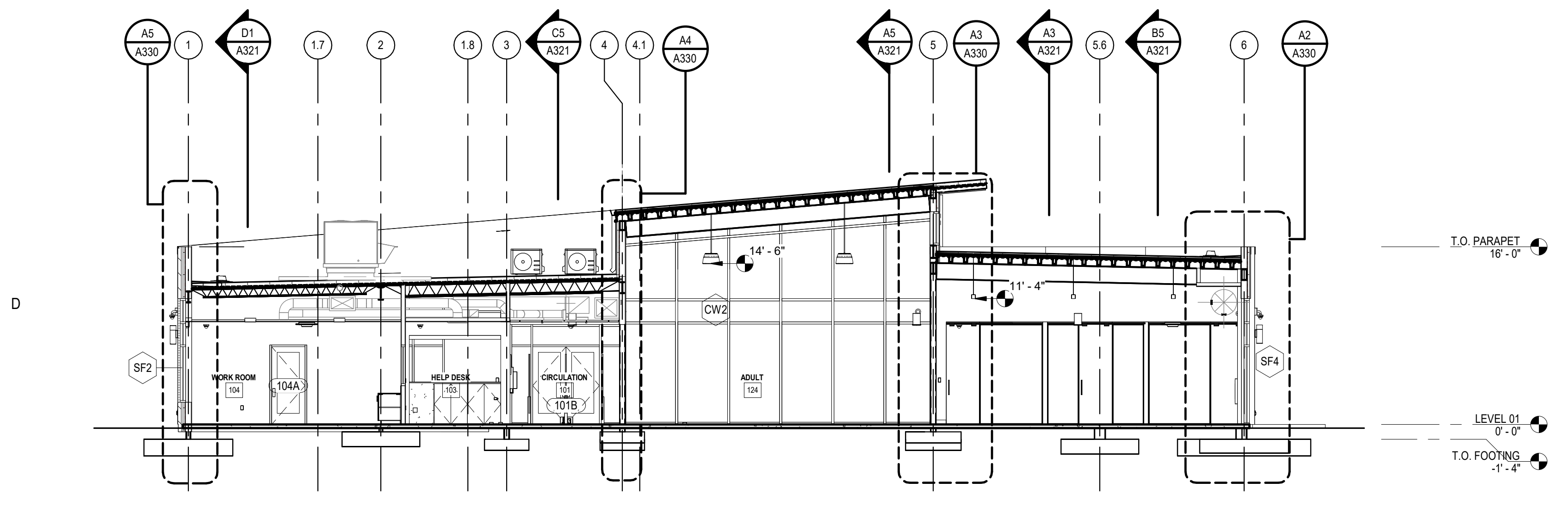
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1 1/2" = 1'-0"



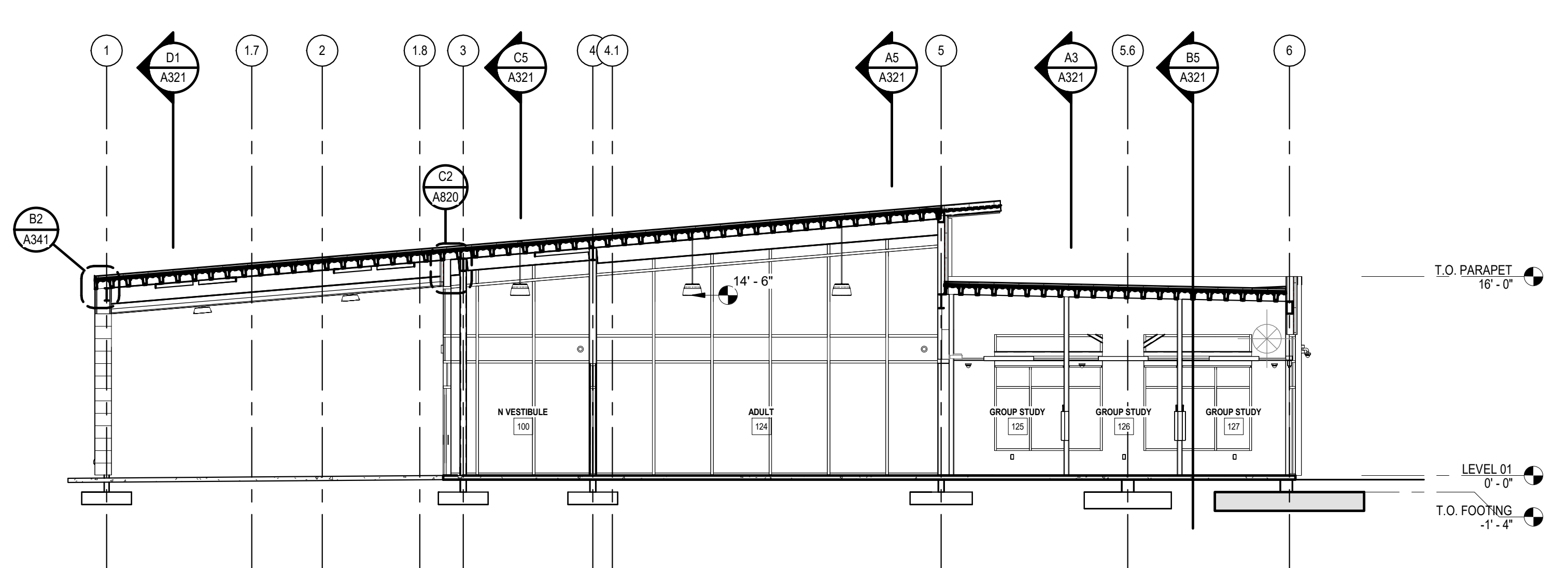
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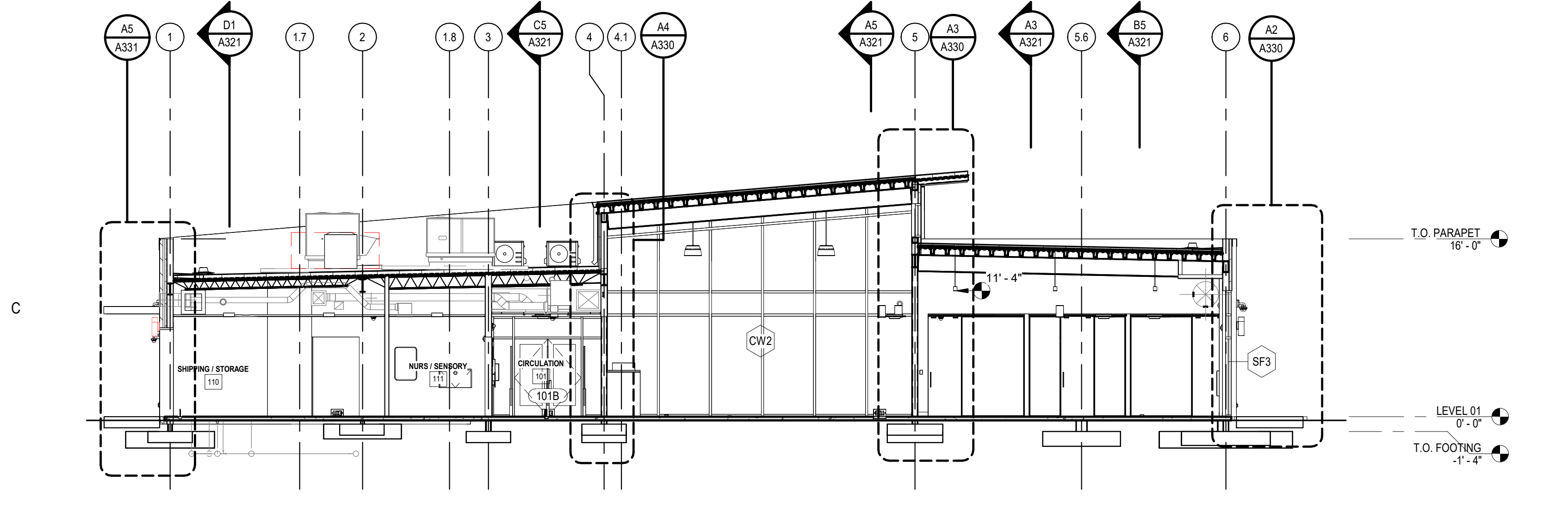
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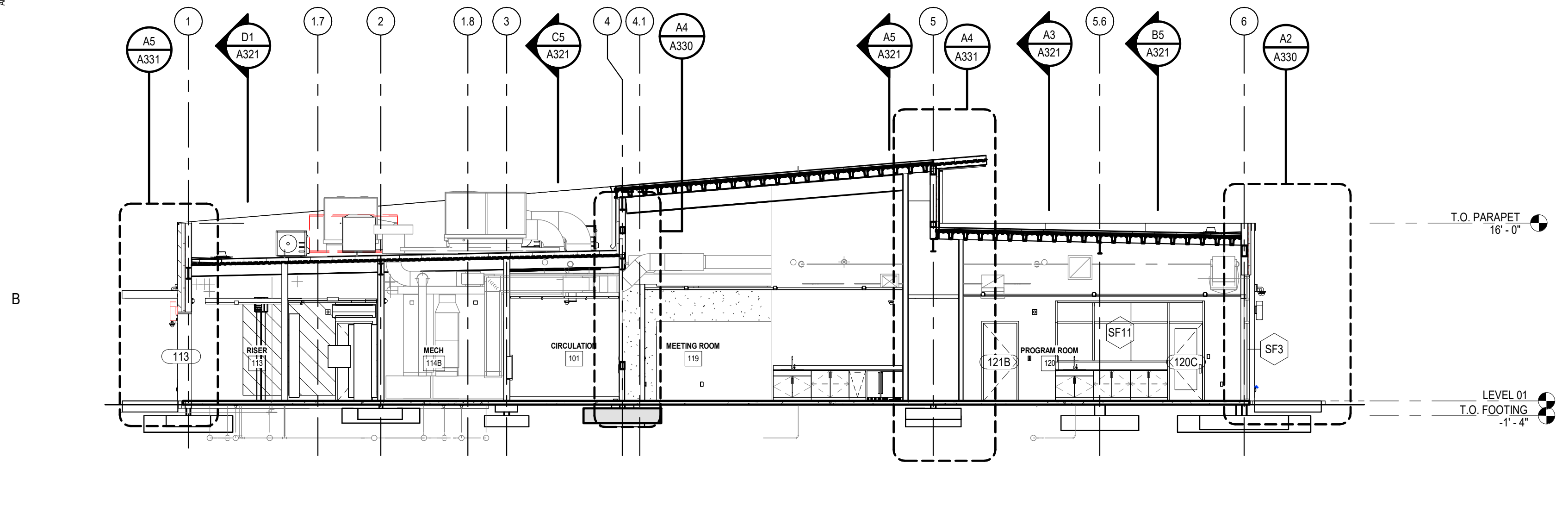
D5 BUILDING SECTION 1
A320 1/8" = 1'-0"



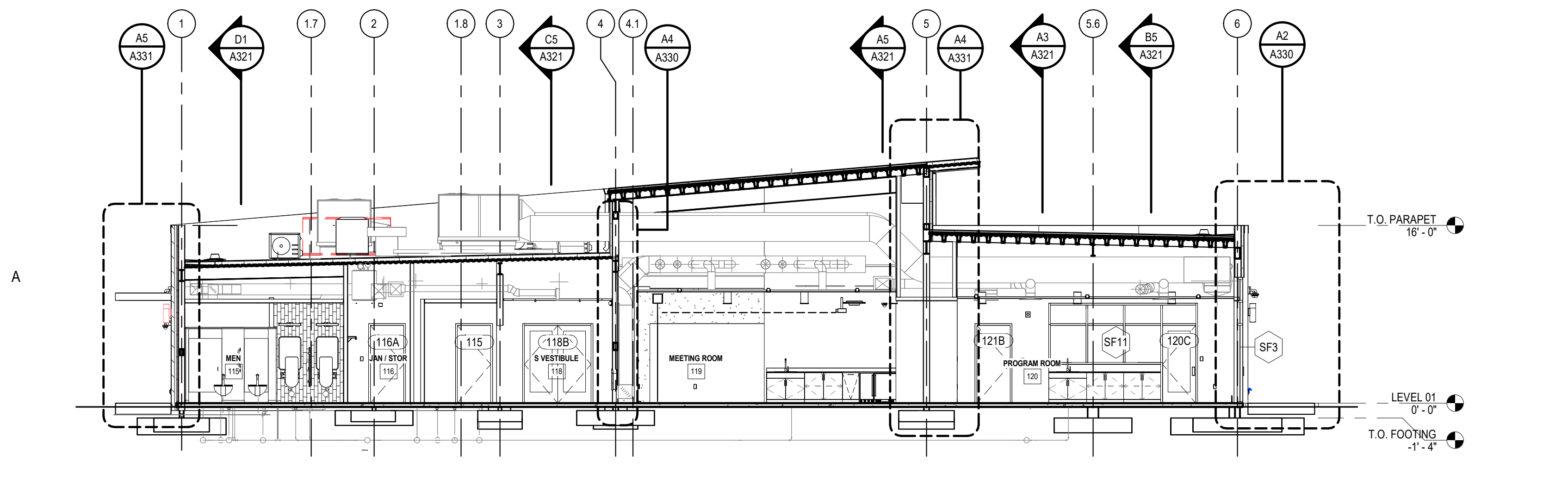
D3 BUILDING SECTION 0
A320 1/8" = 1'-0"



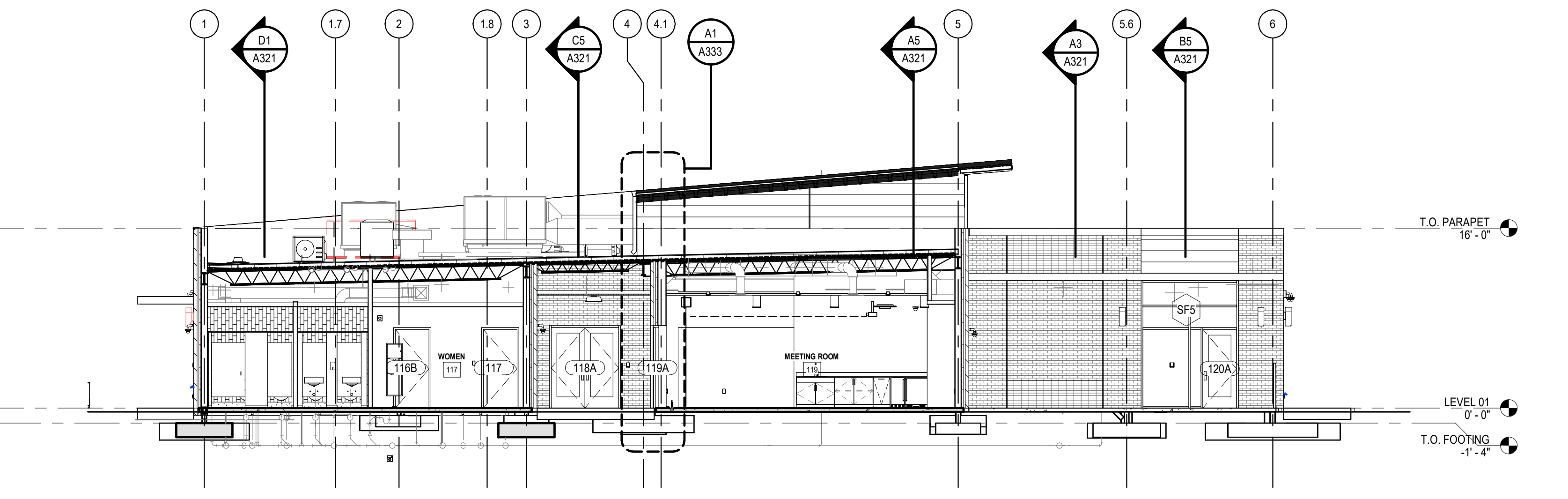
C5 BUILDING SECTION 2
A320 1/8" = 1'-0"



B5 BUILDING SECTION 3
A320 1/8" = 1'-0"



A5 BUILDING SECTION 4
A320 1/8" = 1'-0"

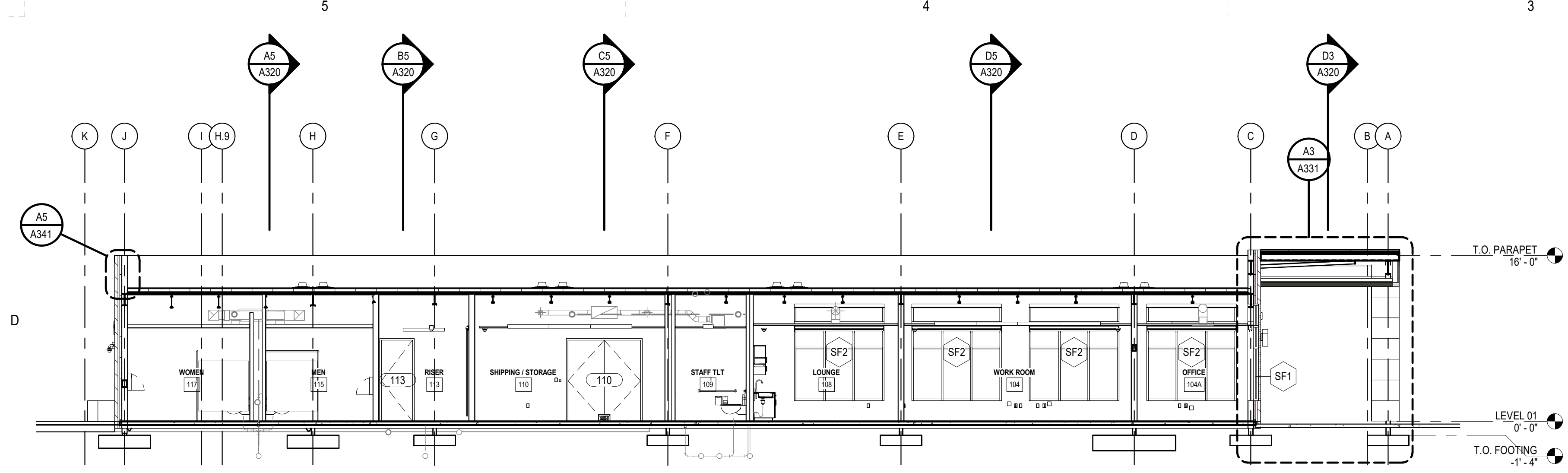


A3 BUILDING SECTION 5
A320 1/8" = 1'-0"

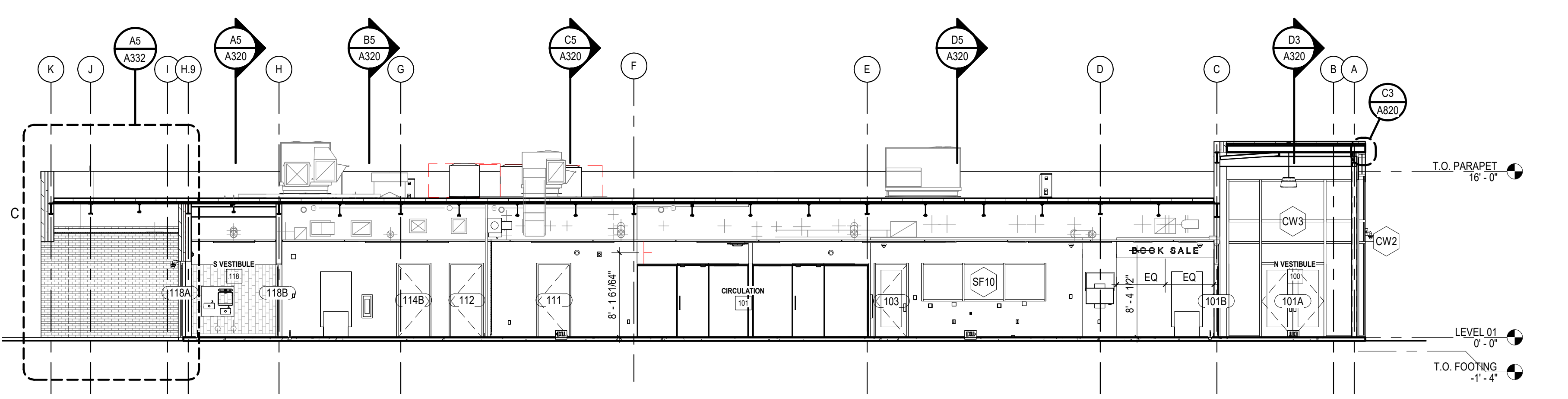
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 B 2024.04.18 DESIGN DEVELOPMENT
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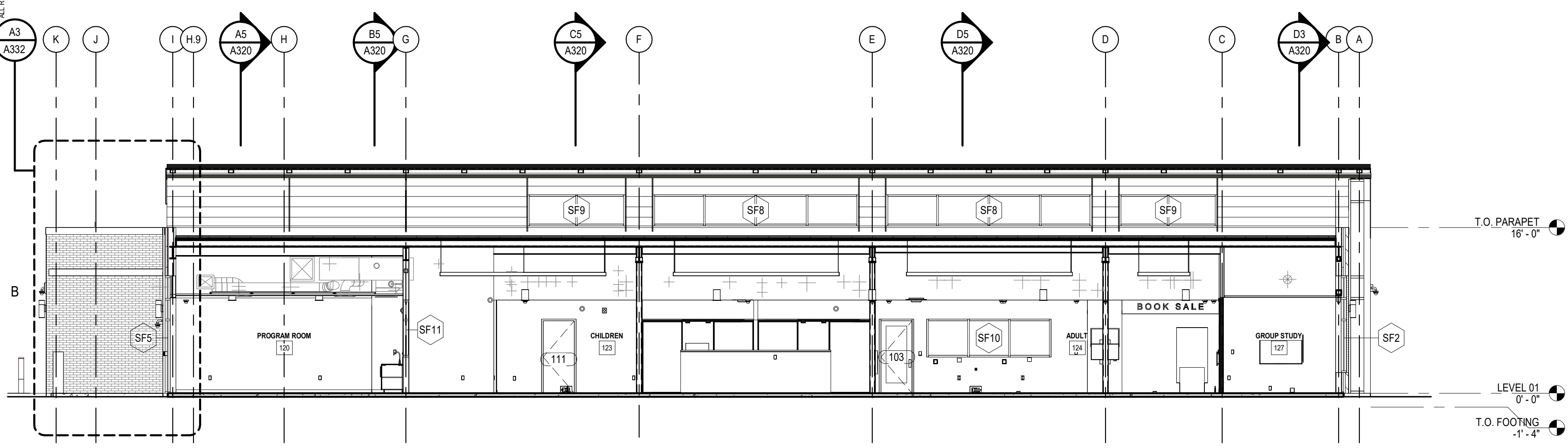
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 PROJECT ARCHITECT: AMG
 DRAWN BY: AMG
 SHEET TITLE: BUILDING SECTIONS



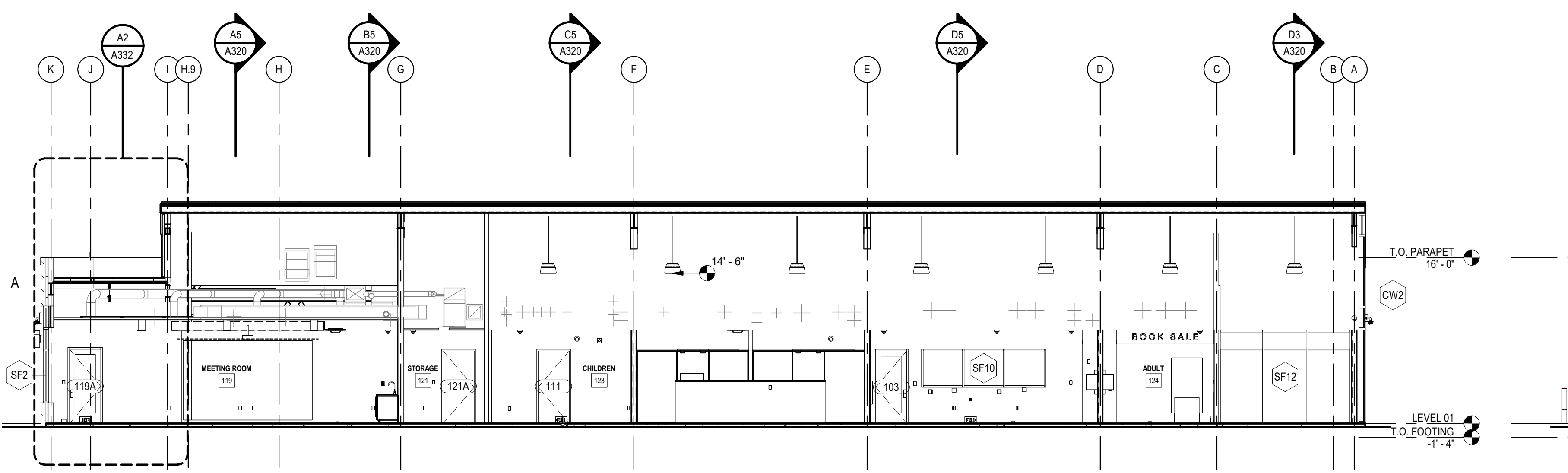
D1 BUILDING SECTION 6
1/8" = 1'-0"



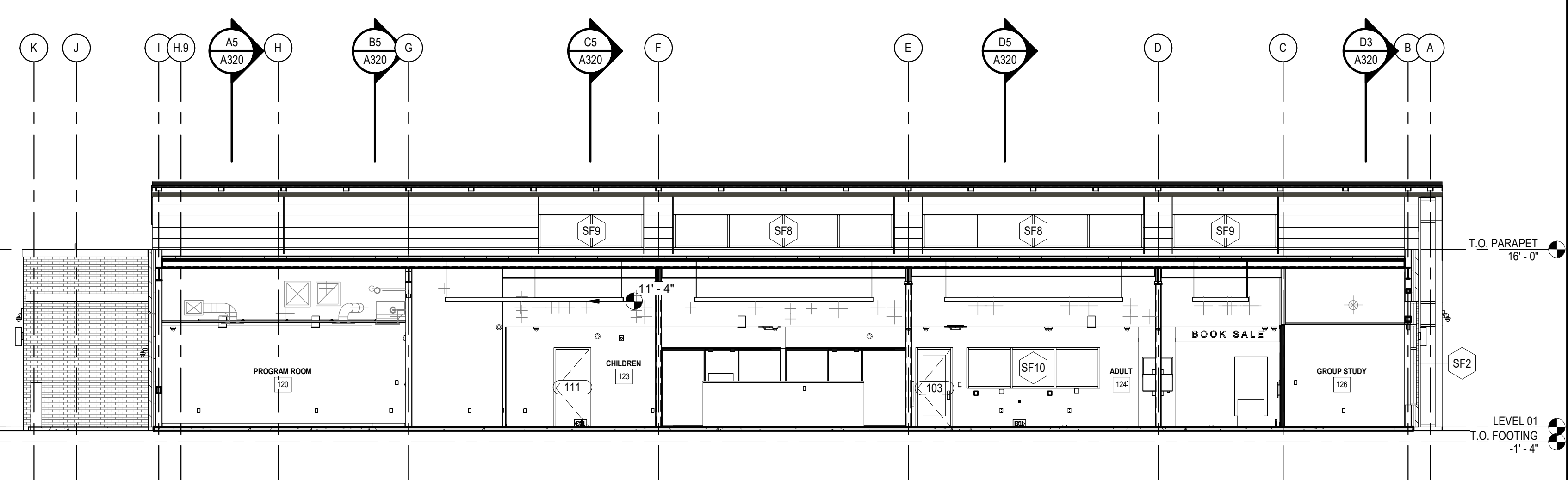
C5 BUILDING SECTION 7
1/8" = 1'-0"



B5 BUILDING SECTION 8
1/8" = 1'-0"



A5 BUILDING SECTION 9
1/8" = 1'-0"



A3 BUILDING SECTION 10
1/8" = 1'-0"

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 PHASE: CONSTRUCTION DOCUMENTS
 SHEET ISSUE:
 NO. DATE DESCRIPTION
 A 2024.01.17 SCHEMATIC DESIGN
 B 2024.04.10 DESIGN DEVELOPMENT
 C 2024.06.28 CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE: DRM
 PROJECT ARCHITECT: AMG
 DRAWN BY: AMG
 SHEET TITLE: BUILDING SECTIONS

SHEET NO. PROJ. NO. 023432

A321

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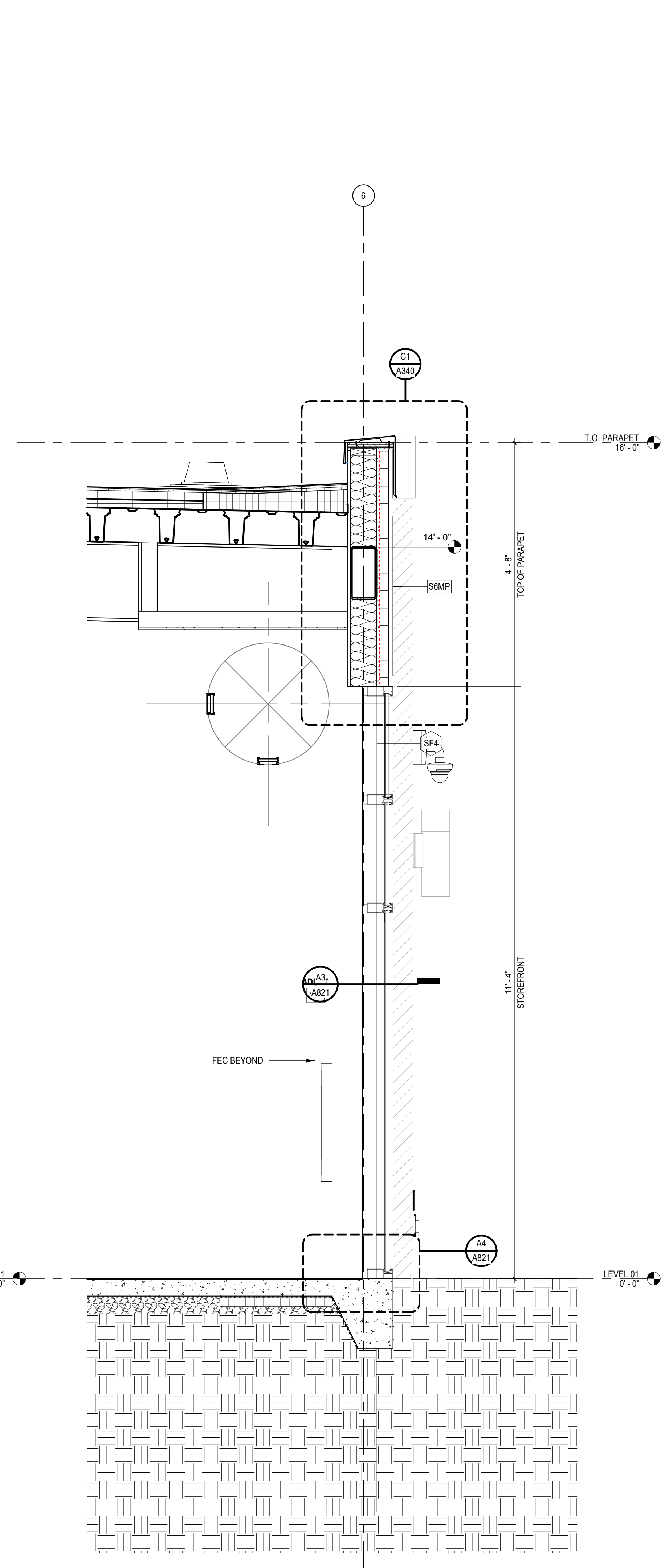
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PHASE: CONSTRUCTION DOCUMENTS
SHEET ISSUE:
NO. DATE DESCRIPTION
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PROJECT ARCHITECT: AMG
DRAWN BY: KW

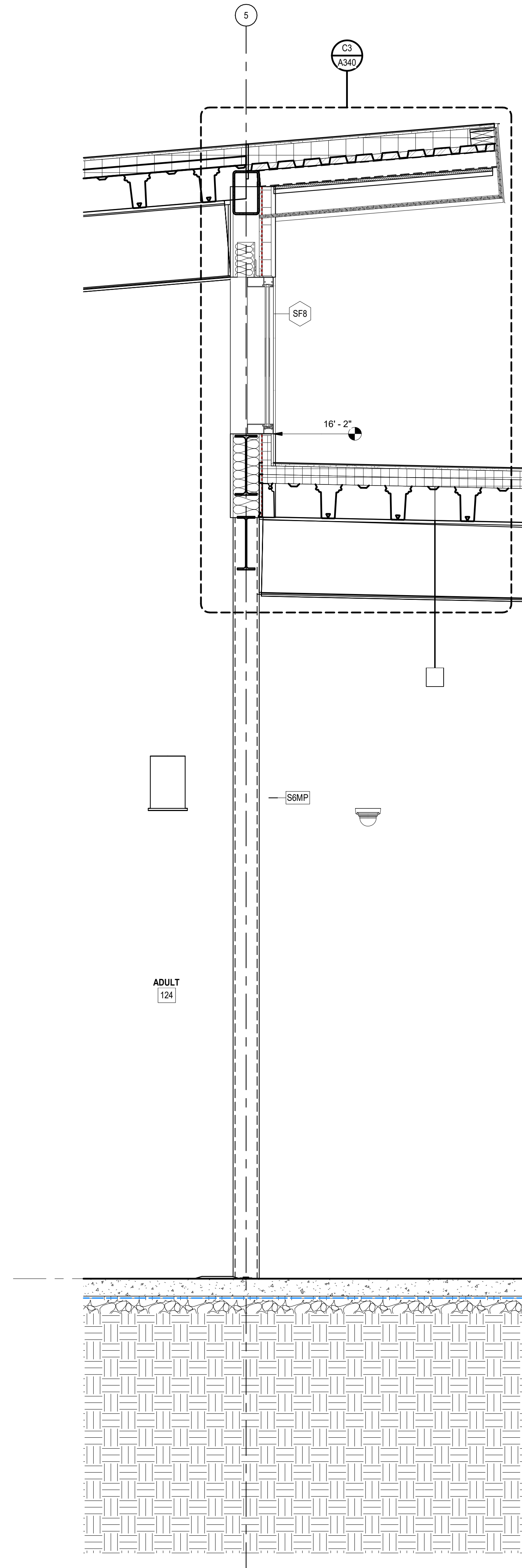
SHEET TITLE:
WALL SECTIONS

SHEET NO. PROJ. NO.
023432

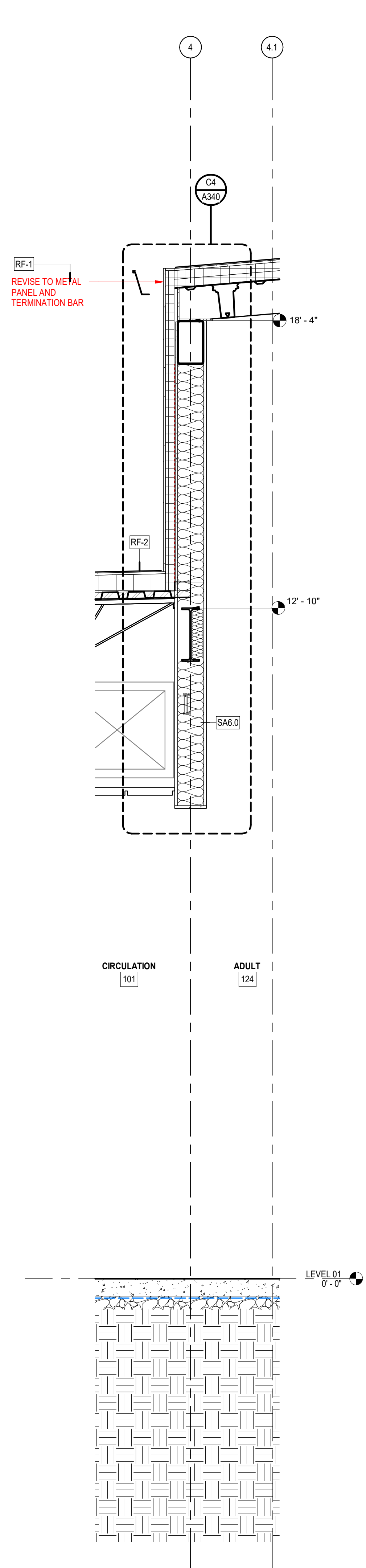
A330



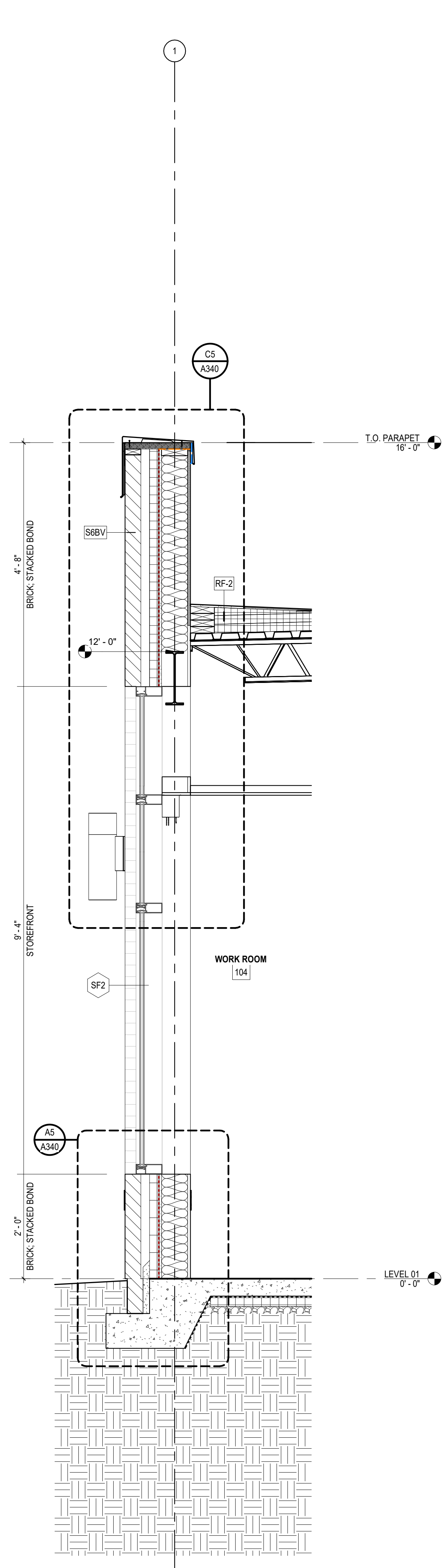
A2 WALL SECTION 4
3/4" = 1'-0"



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



A4 WALL SECTION 2
3/4" = 1'-0"



A5 WALL SECTION 1
3/4" = 1'-0"

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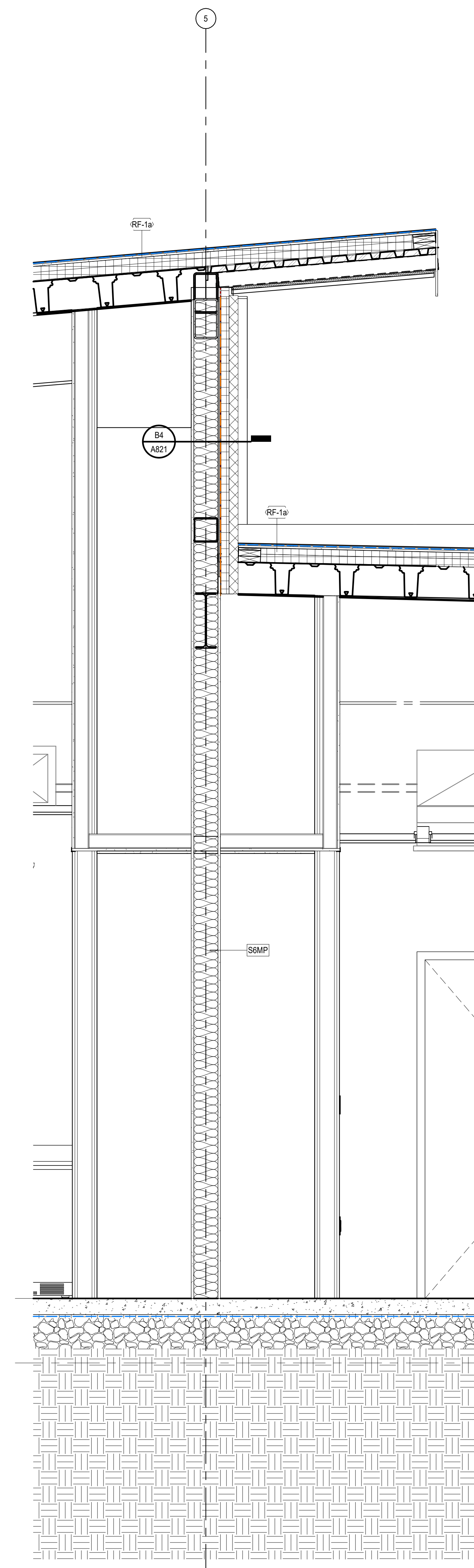
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C	2024.06.28	CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE: DRM
PROJECT ARCHITECT: AMG
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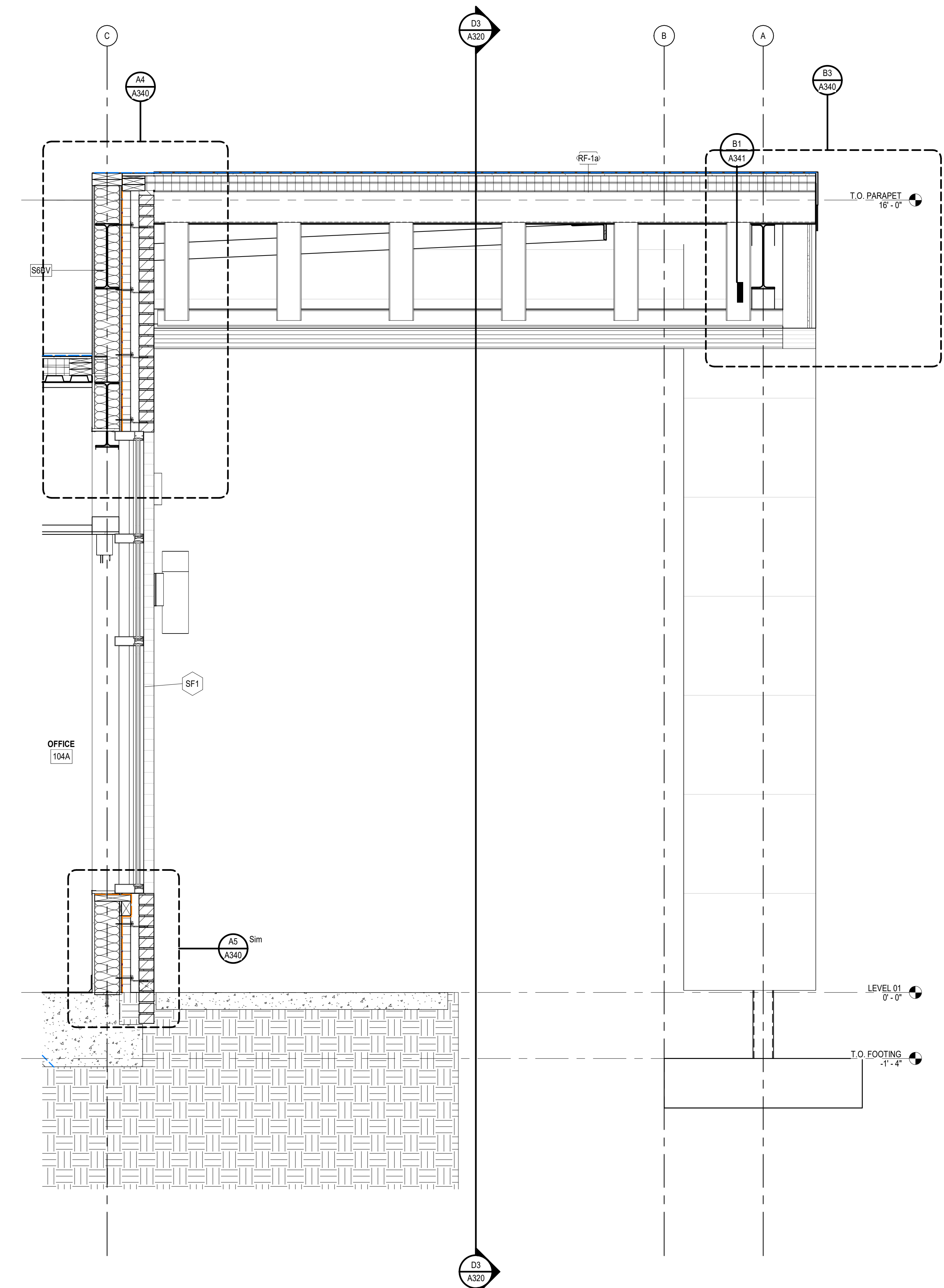
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WALL SECTIONS

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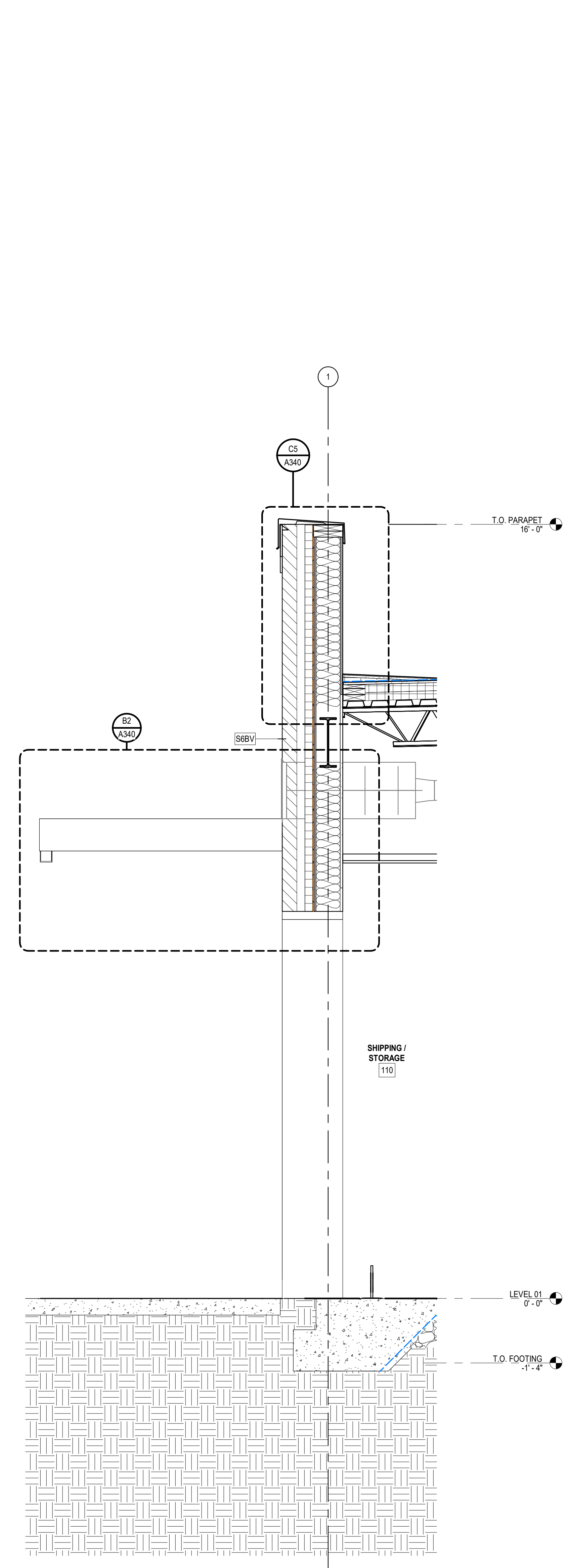
A331



A4 WALL SECTION 6
3/4" = 1'-0"



A3 WALL SECTION 7
3/4" = 1'-0"



A5 WALL SECTION 5
3/4" = 1'-0"

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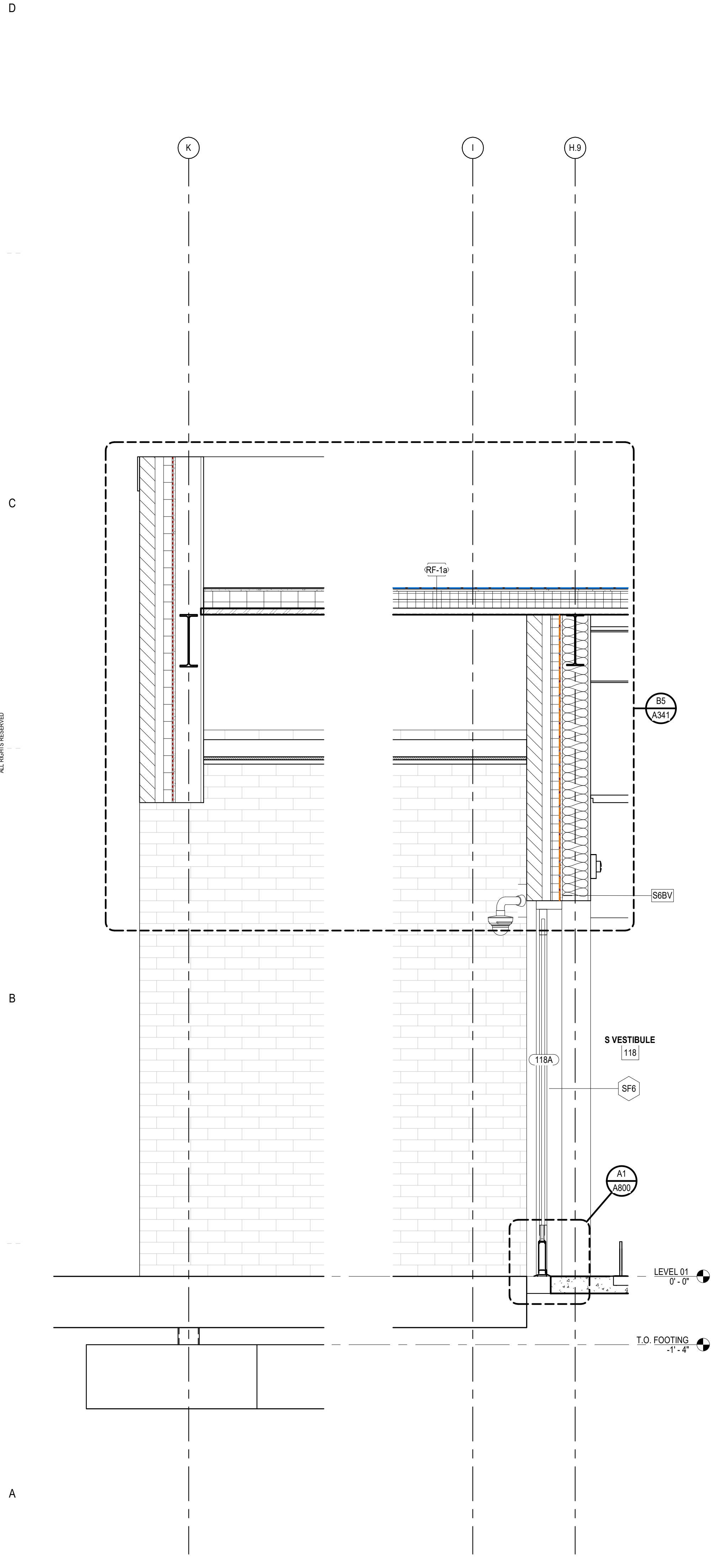
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WALL SECTIONS

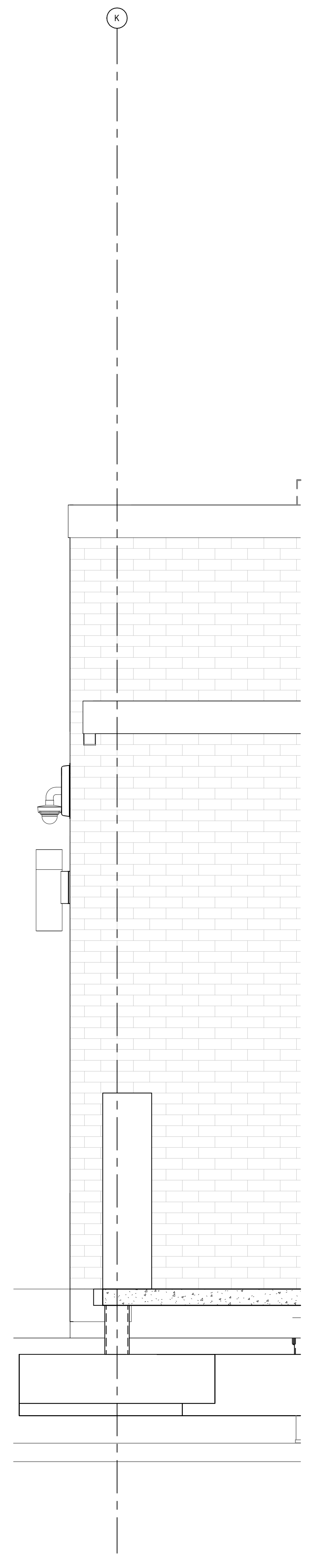
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A332

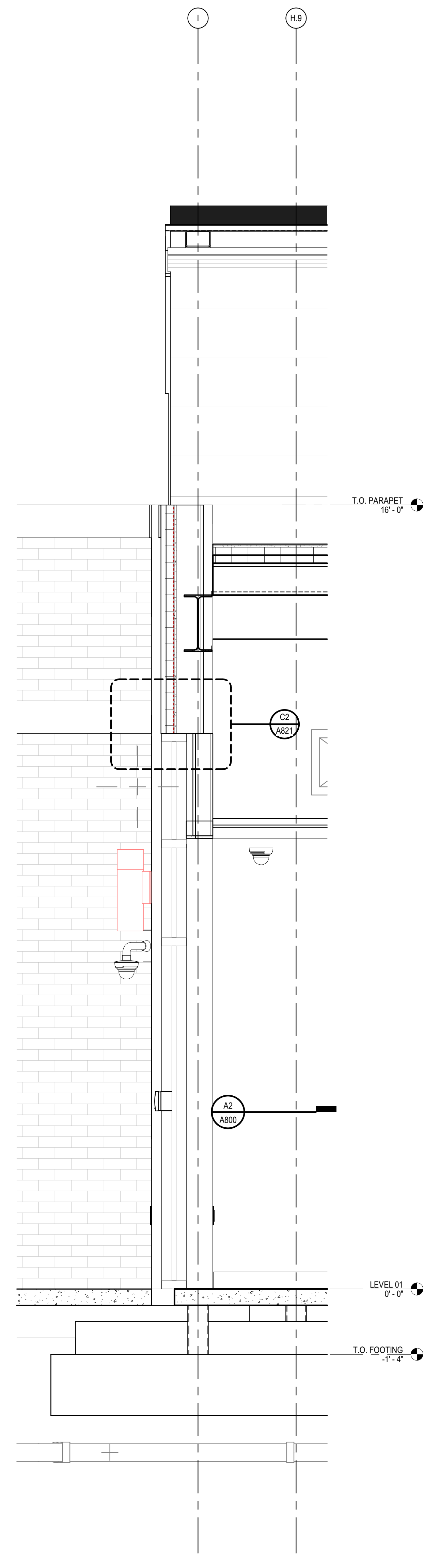
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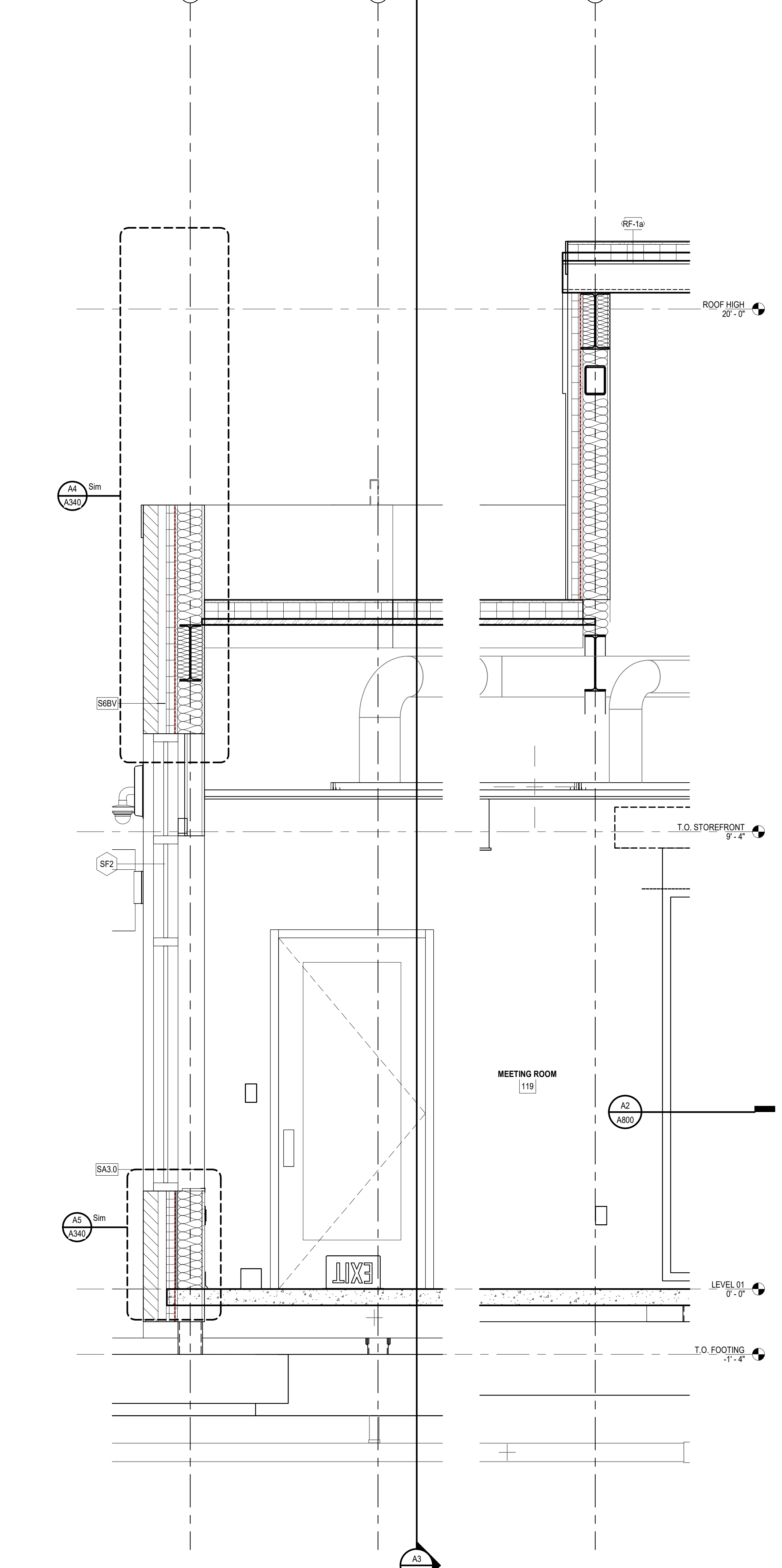
AS WALL SECTION 8
 3/4" = 1'-0"



A3 WALL SECTION 9
 3/4" = 1'-0"



A2 WALL SECTION 10
 3/4" = 1'-0"



A3 WALL SECTION 10
 3/4" = 1'-0"

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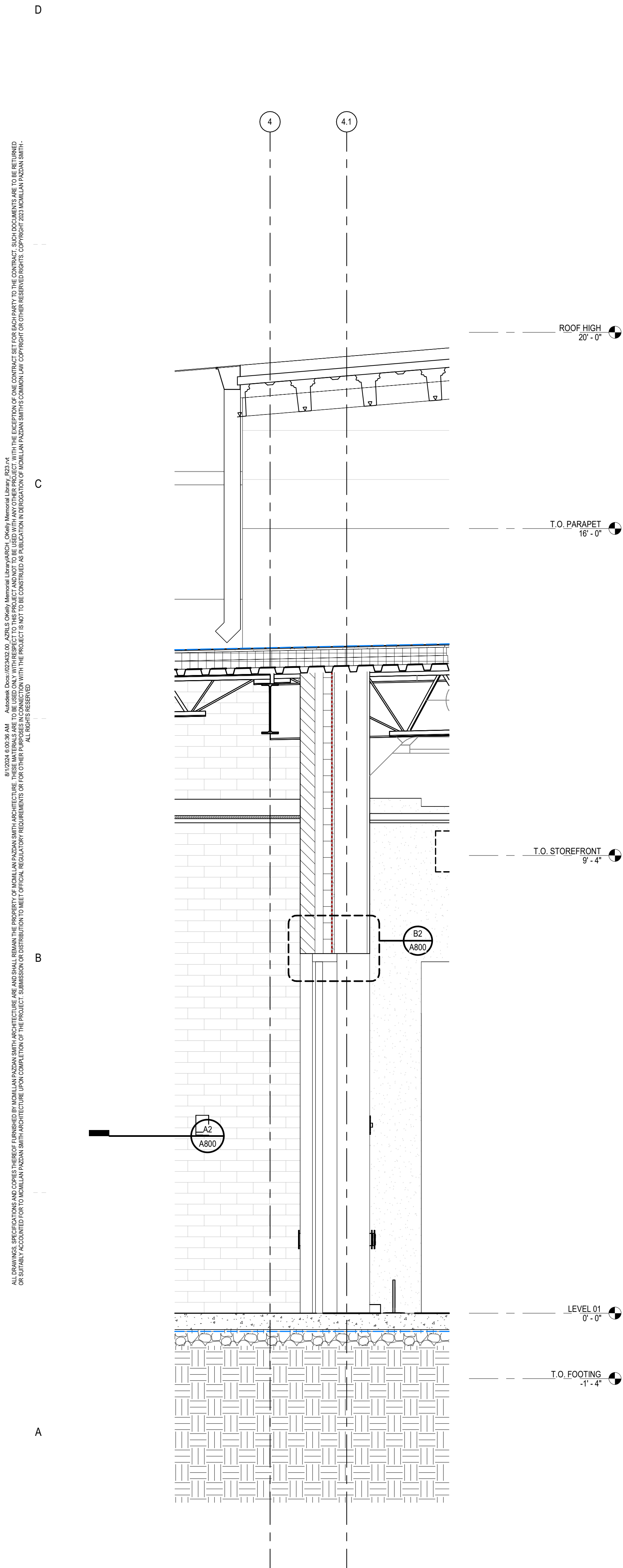
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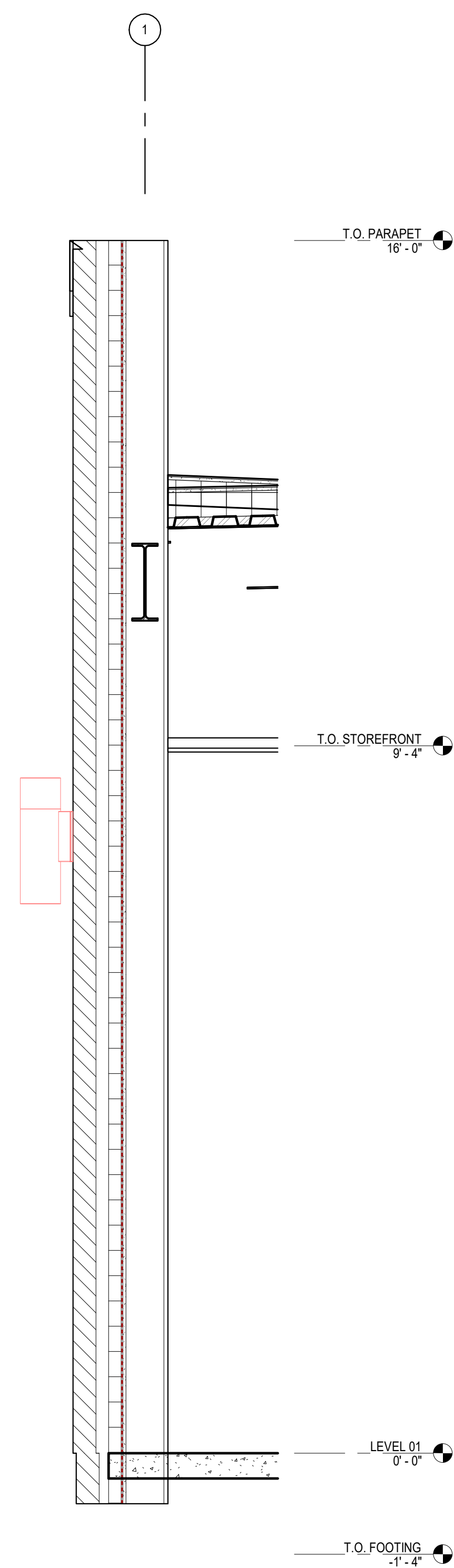
SHEET TITLE:
WALL SECTIONS

SHEET NO. PROJ. NO.
023432

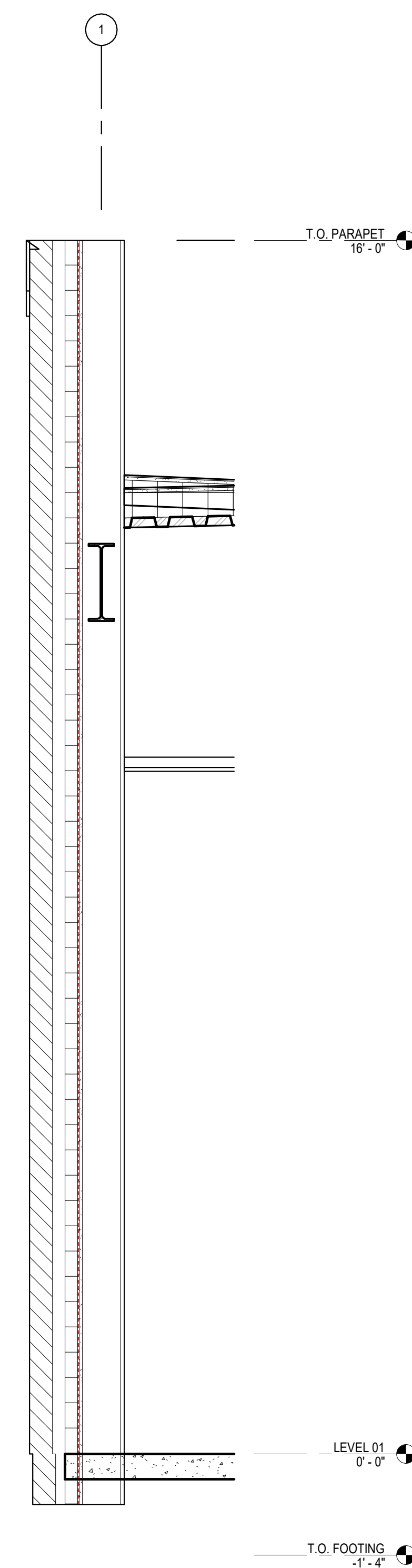
A333



11
WALL SECTION 11
3/4" = 1'-0"

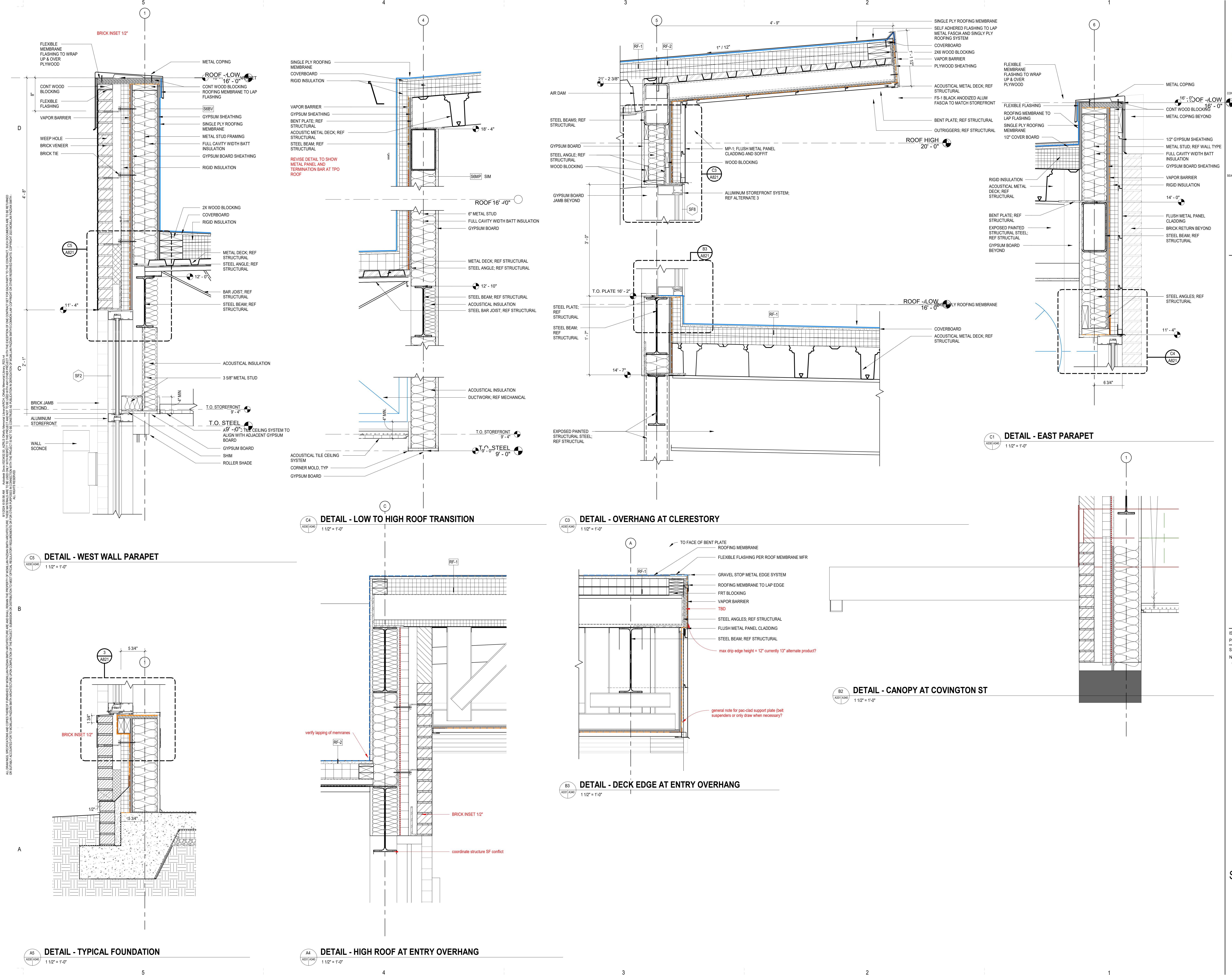


1
WALL SECTION - TYPICAL BRICK INSTALLATION AT BRICK PILASTER
3/4" = 1'-0"

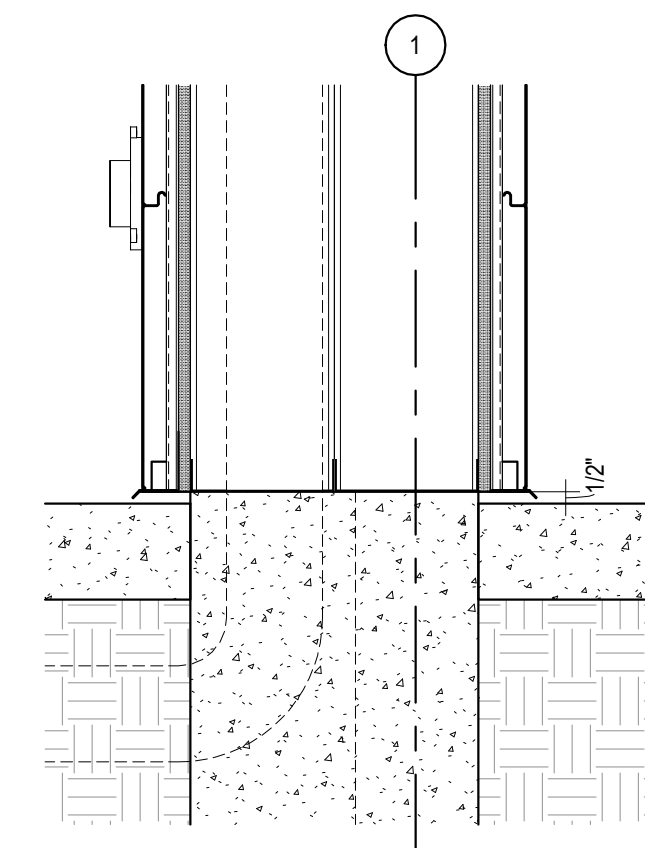


2
WALL SECTION - TYPICAL BAY BRICK INSTALLATION
3/4" = 1'-0"

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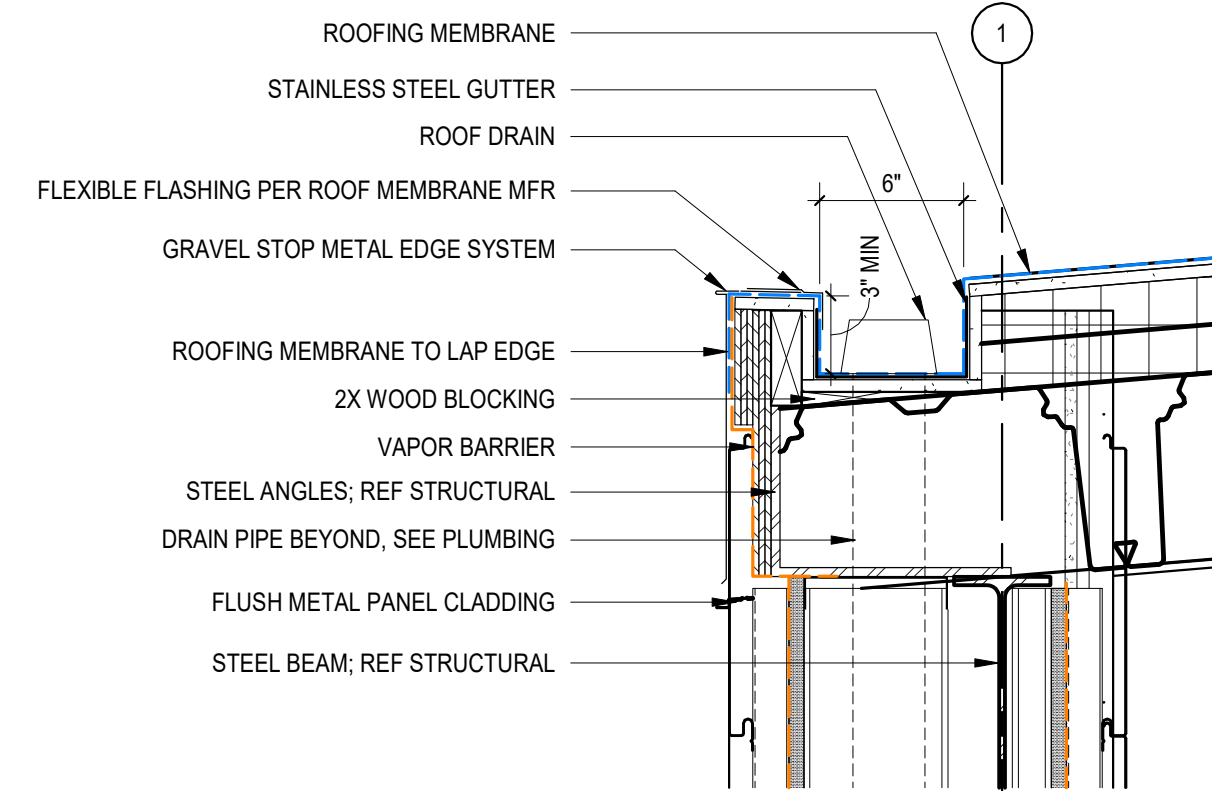


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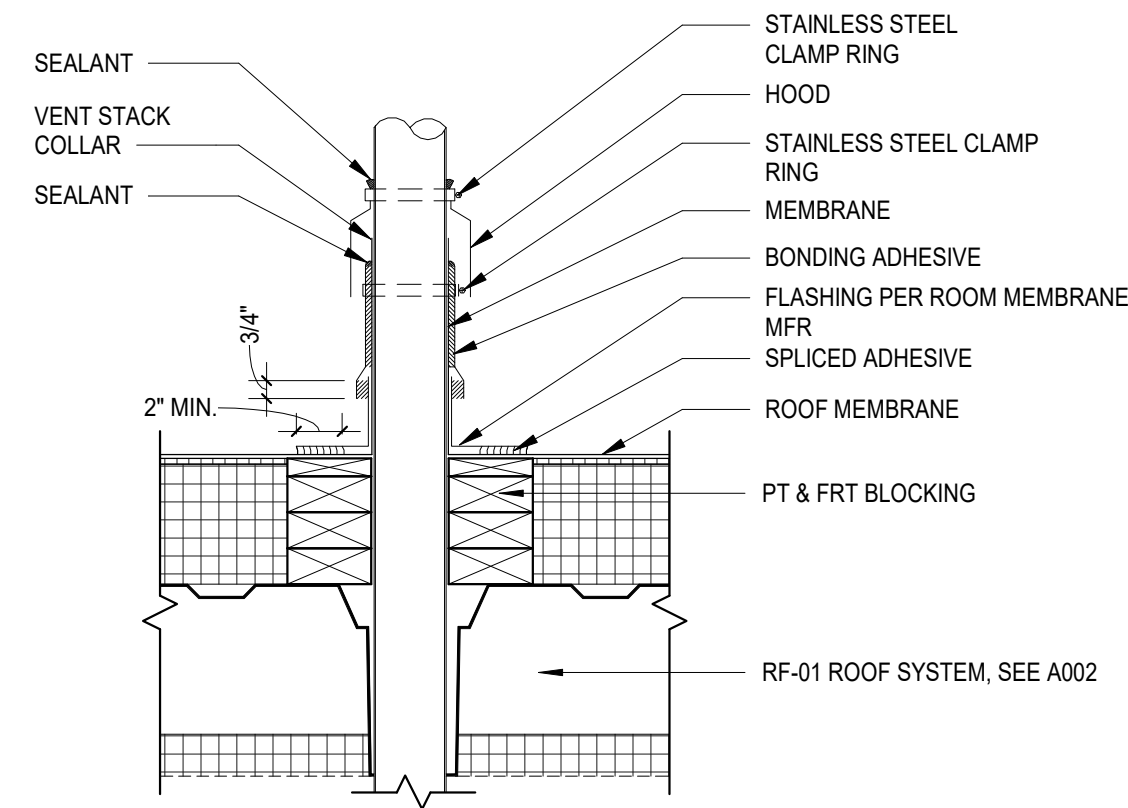
A1
A341 1 1/2" = 1'-0"

DETAIL - COLUMN WRAP AT GRADE



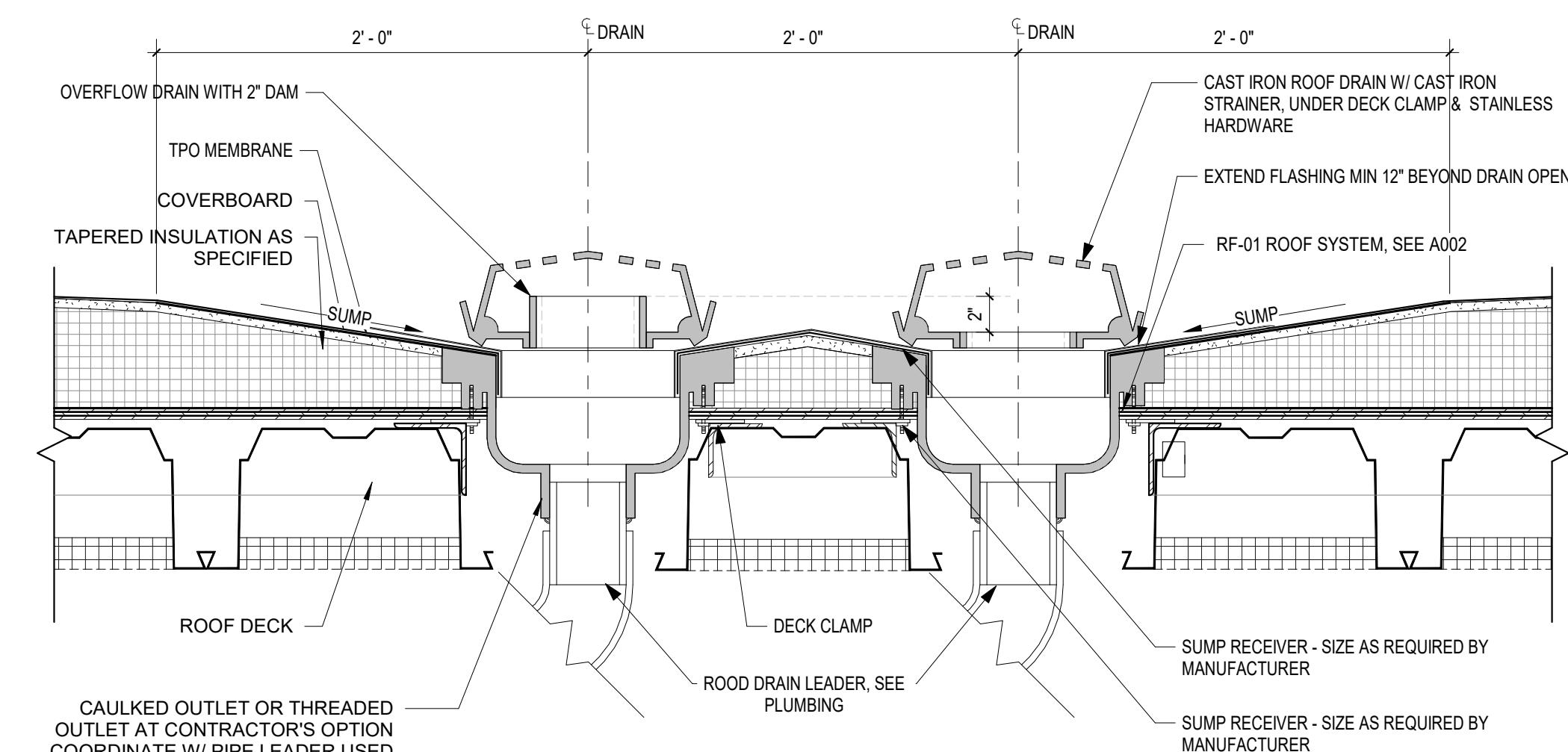
B1
A341 1 1/2" = 1'-0"

DETAIL - COLUMN WRAP AT CONCEALED GUTTER



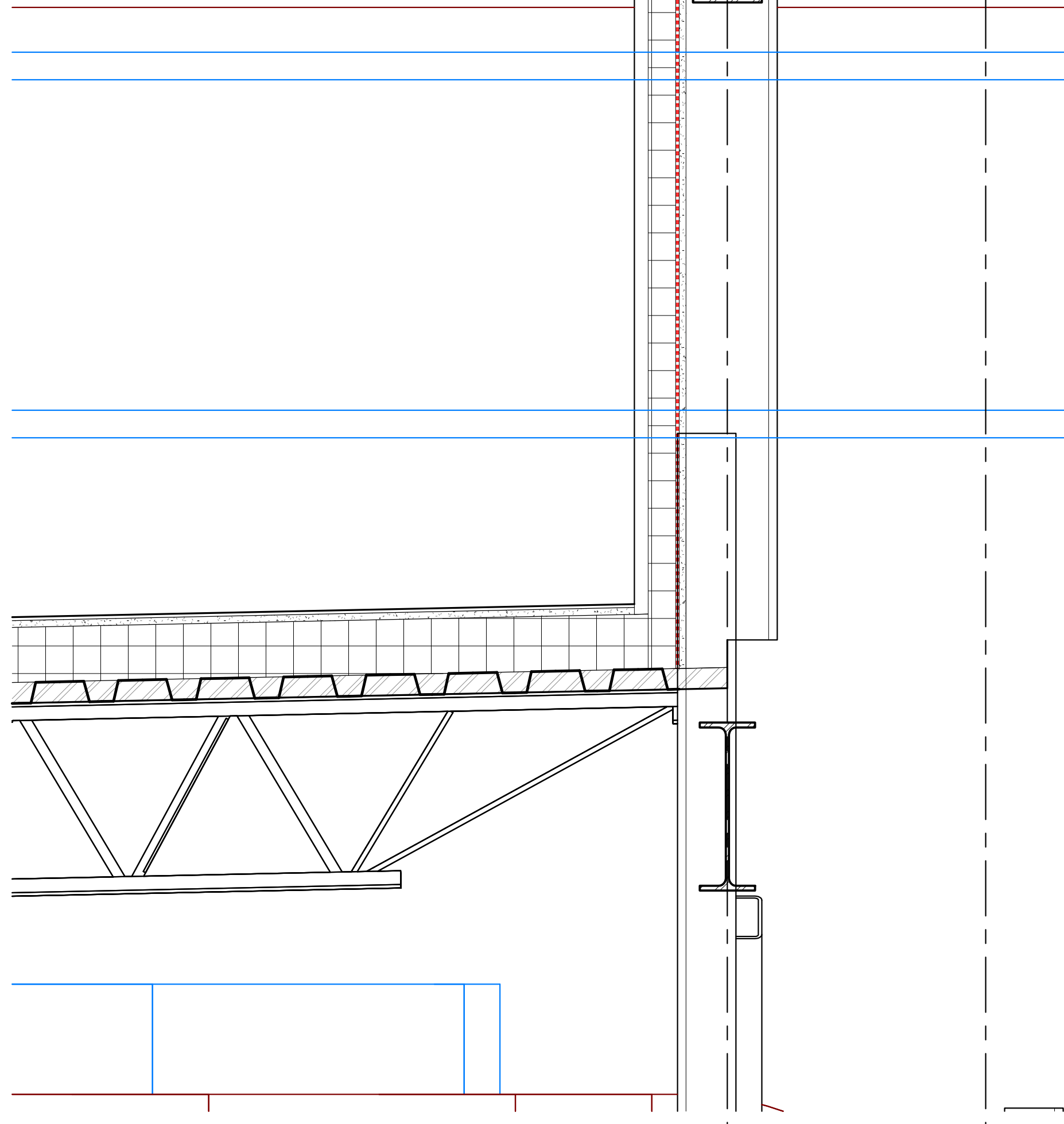
D3
A341 1 1/2" = 1'-0"

VENT STACK FLASHING DETAIL



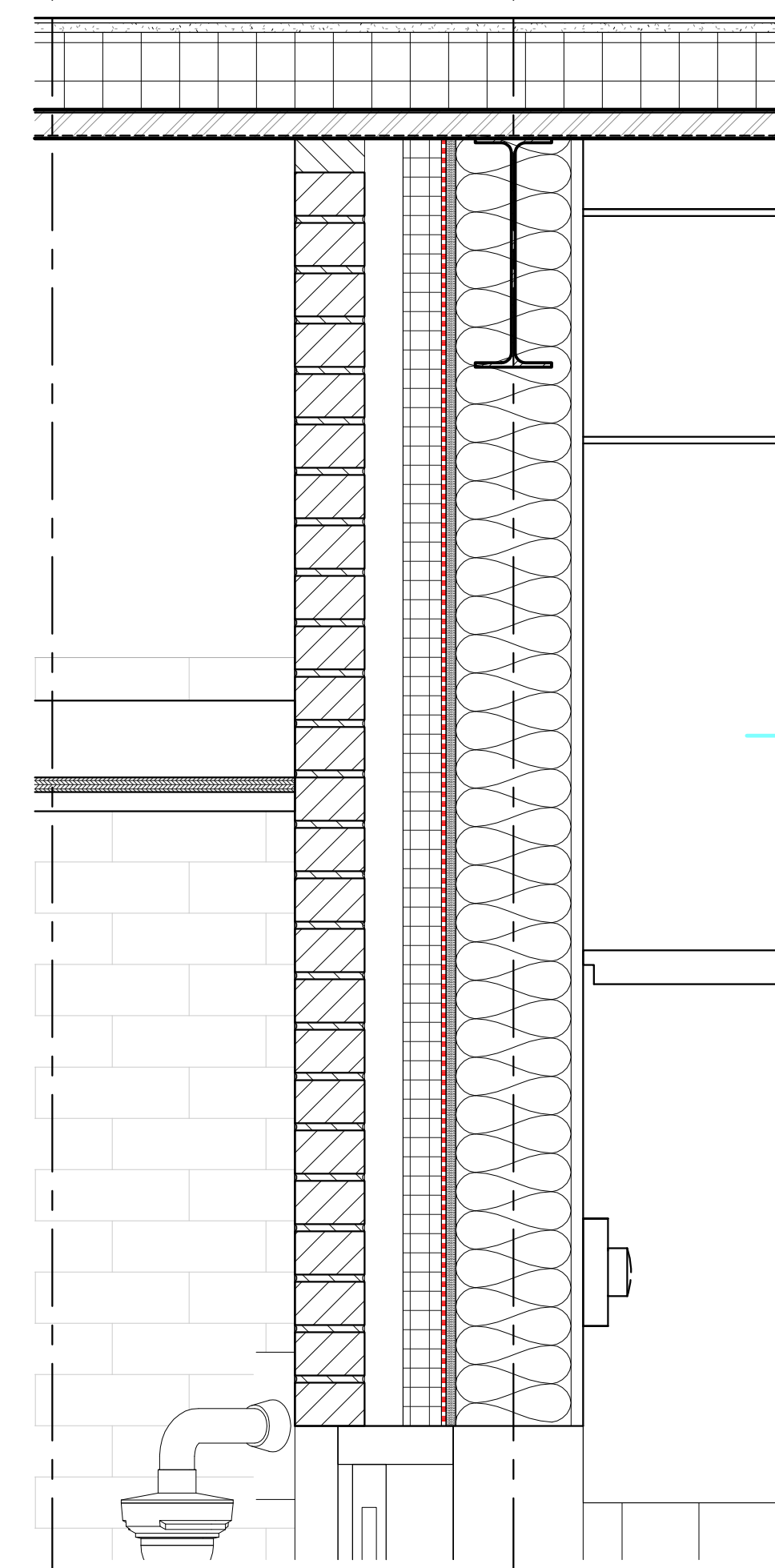
D2
A341 1 1/2" = 1'-0"

ROOF DRAIN



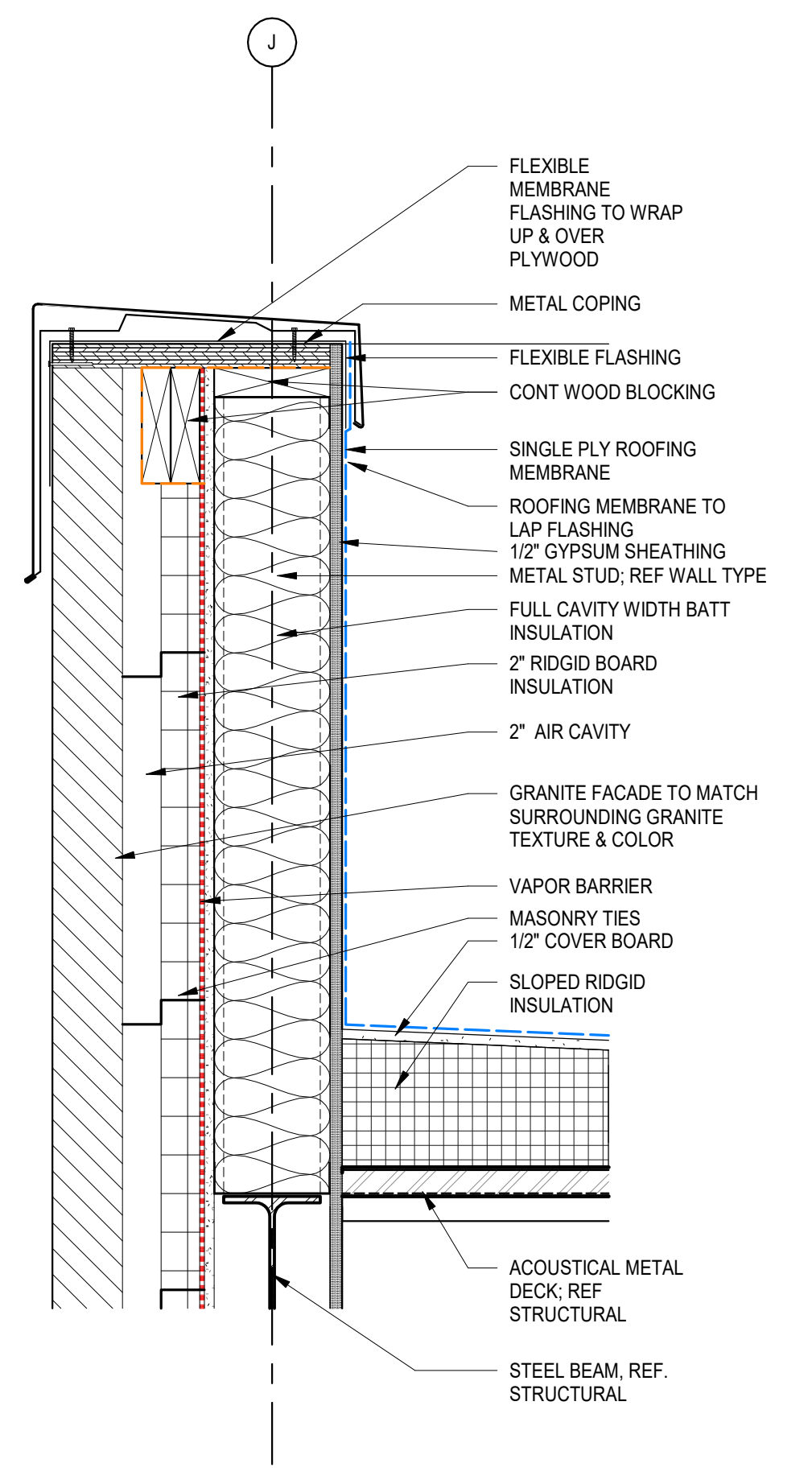
B3
A341 1 1/2" = 1'-0"

MECHANICAL WALL PENETRATION DETAIL



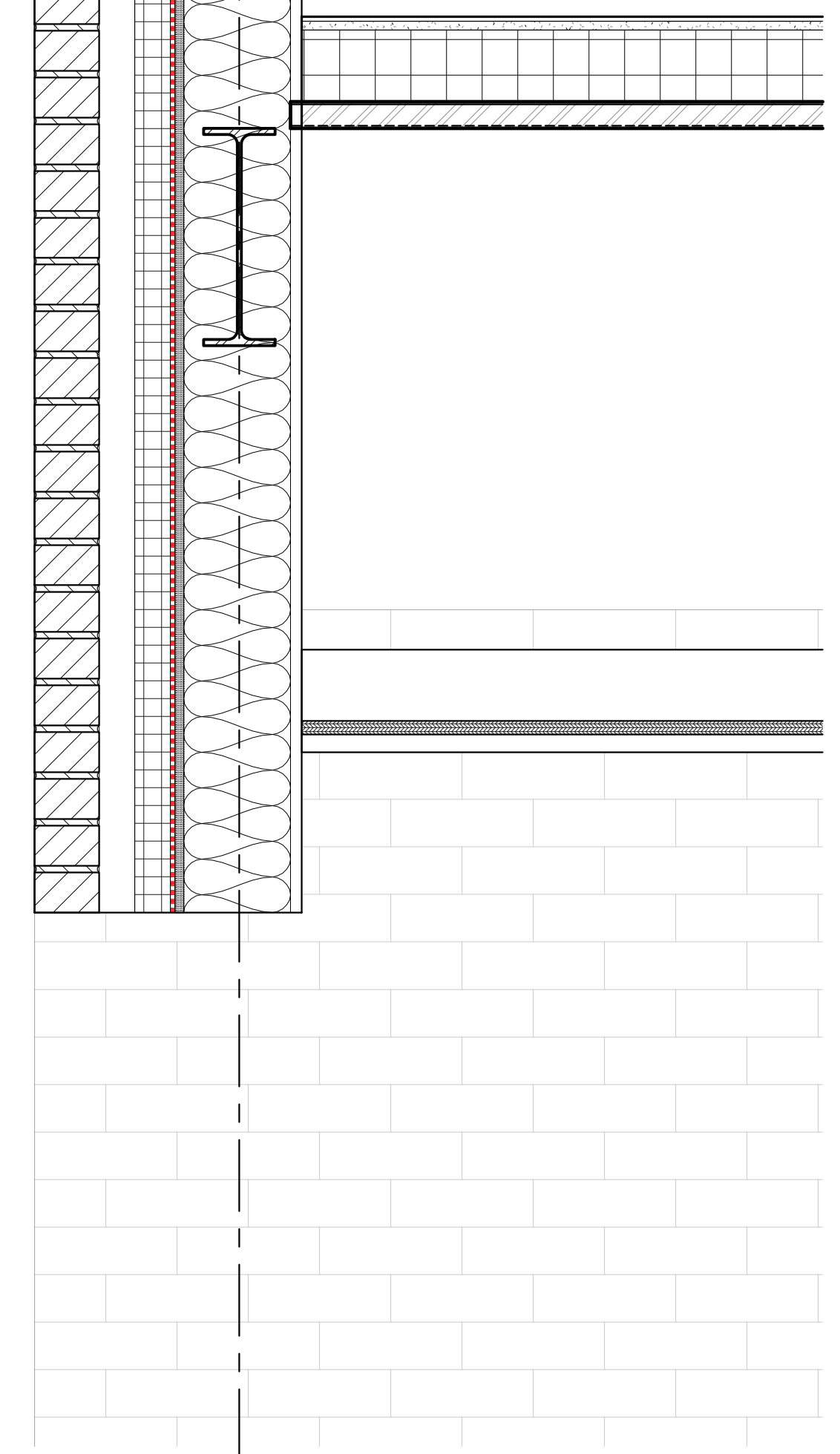
B2
A341 1 1/2" = 1'-0"

DETAIL - CONCEALED GUTTER AT EAVE



A5
A341 1 1/2" = 1'-0"

GRANITE PARAPET DETAIL

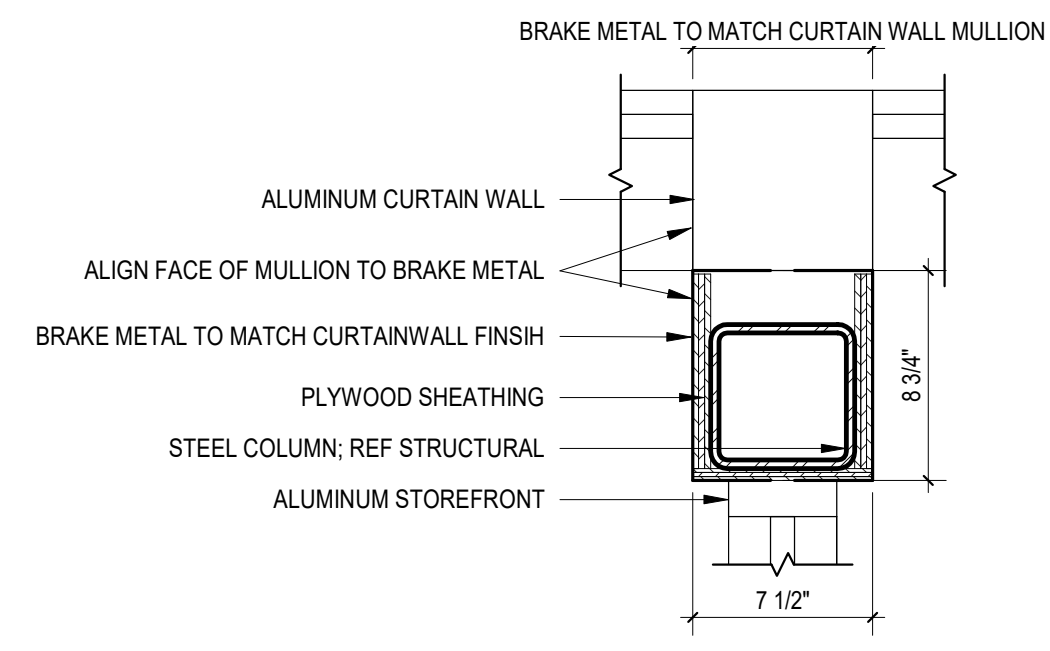


B5
A341 1 1/2" = 1'-0"

DETAIL - ENTRY AT SOUTH VESTIBULE

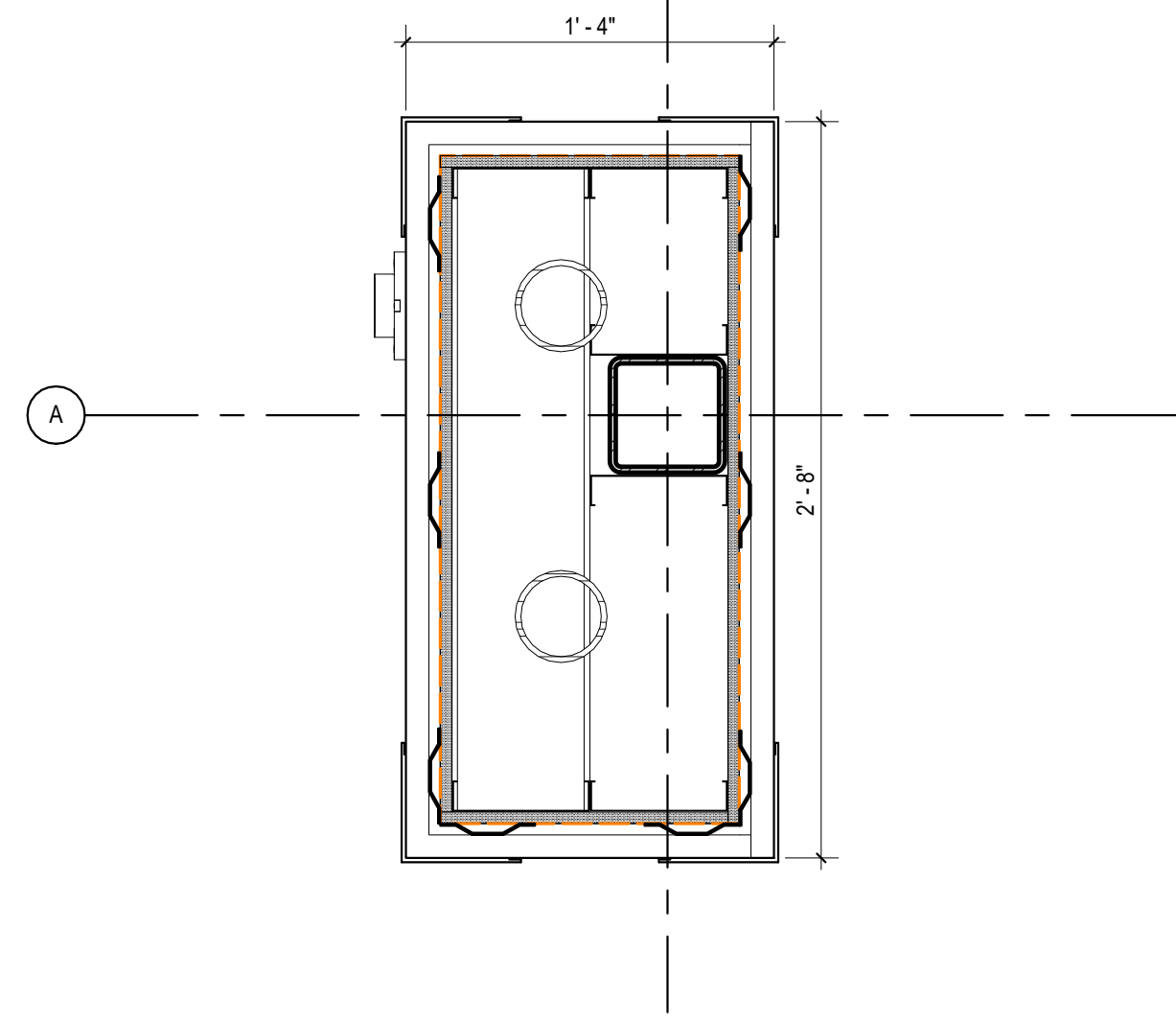
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5



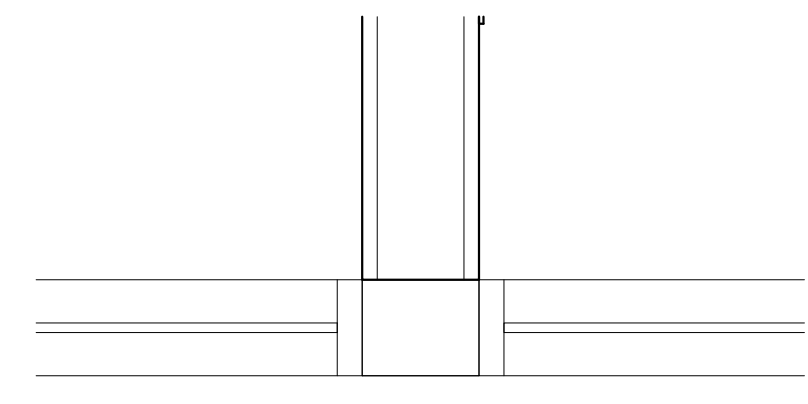
D5 PLAN DETAIL - COLUMN AT CURTAIN WALL
A360 1 1/2" = 1'-0"

4



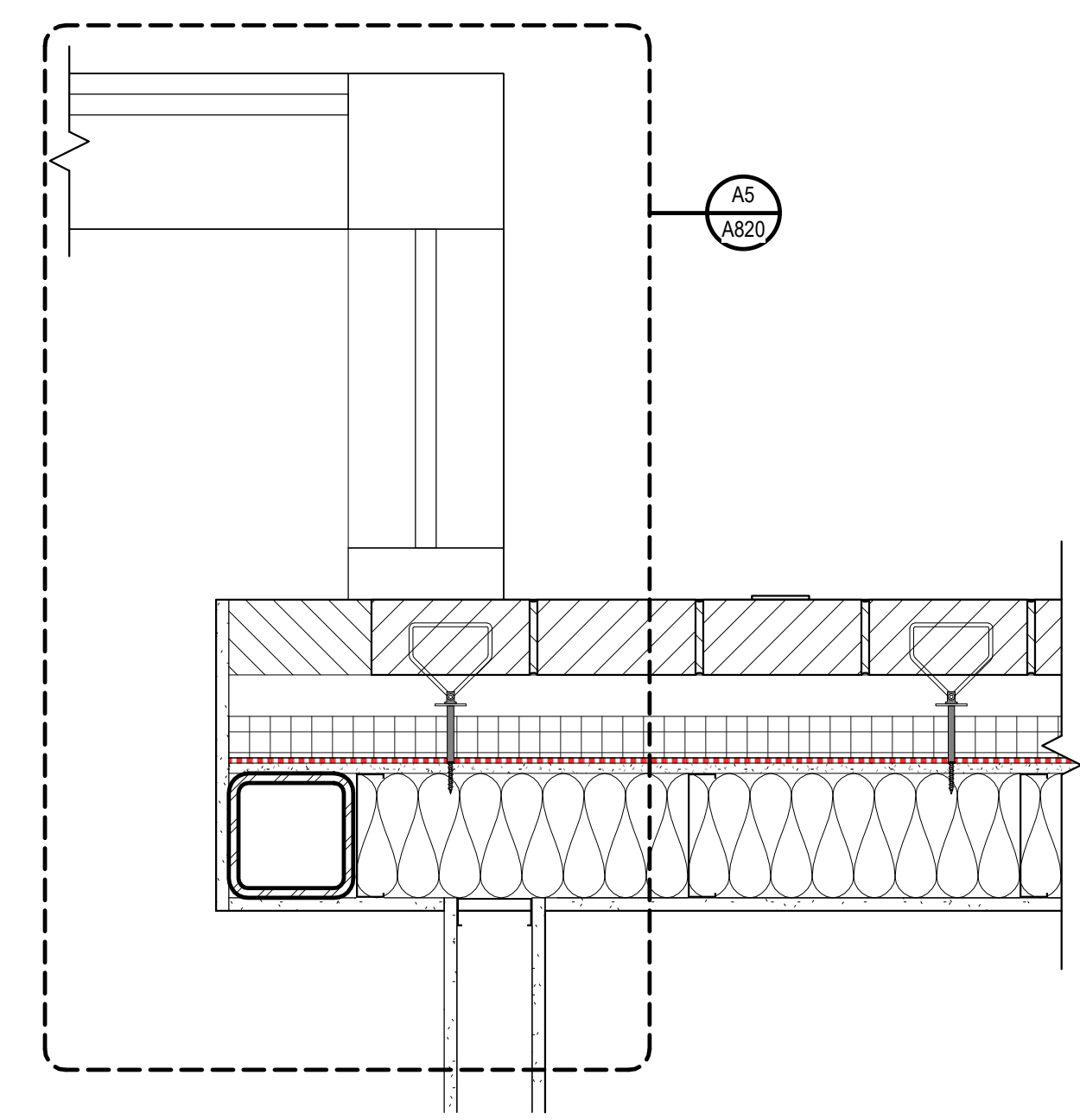
D4 PLAN DETAIL - COLUMN
A360 1 1/2" = 1'-0"

3



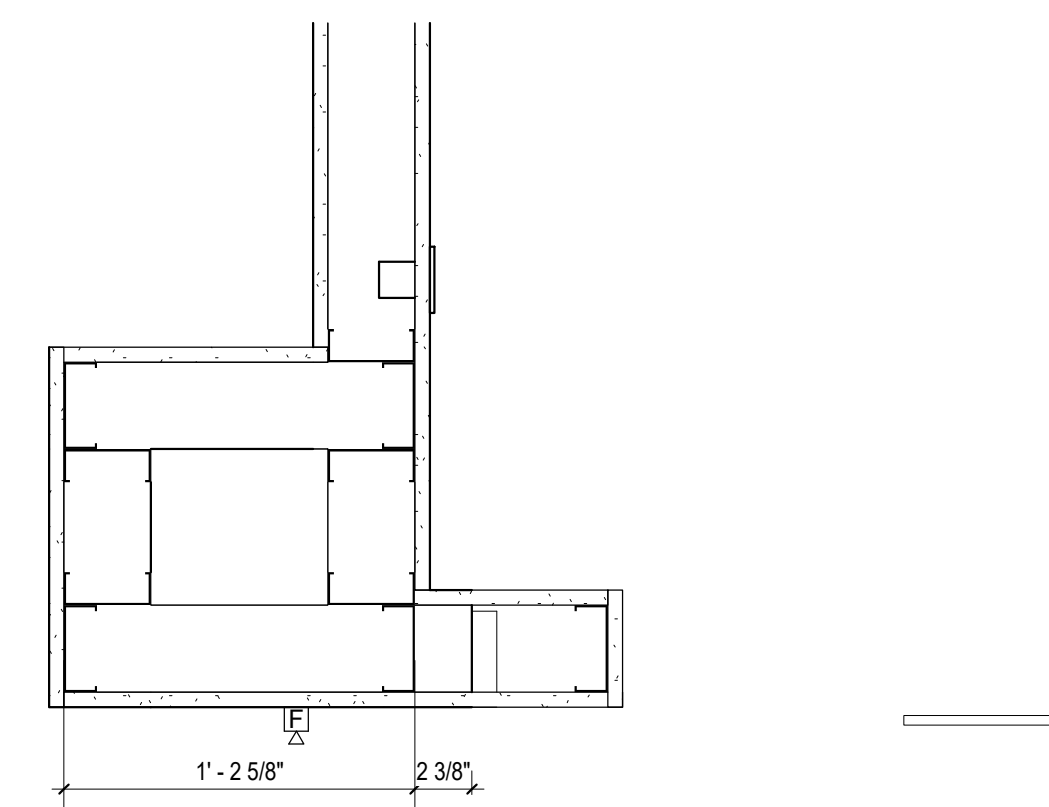
D3 JAMB DETAIL AT ARCHITECTURAL WALLS
A360 1 1/2" = 1'-0"

2



C1 PLAN DETAIL - GROUP STUDY EXTERIOR
A110/A360 1 1/2" = 1'-0"

1



A2 PLAN DETAIL - SOUTH ENTRY
A110/A360 1 1/2" = 1'-0"

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SHEET TITLE: PLAN DETAILS

SHEET NO. PROJ. NO.
 023432

A360

5

A5 WALL FURRING AT FEC PLAN DETAIL
A110/A360 1 1/2" = 1'-0"

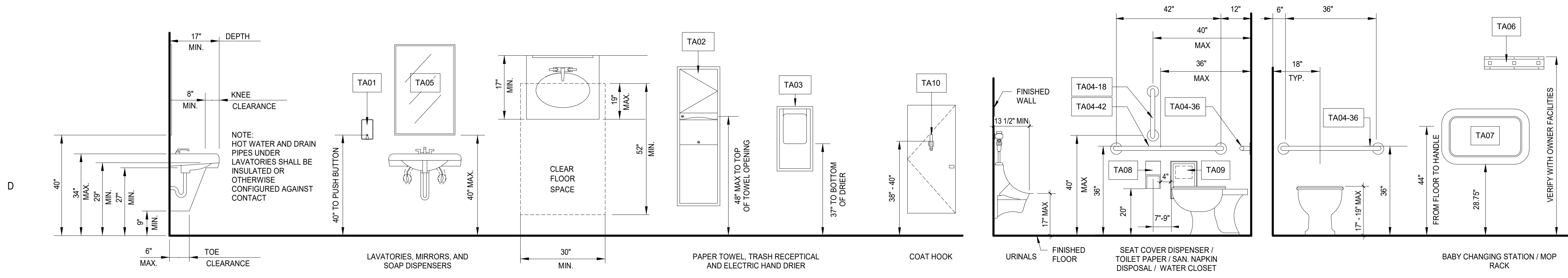
4

A4 PLAN DETAIL AT SITEWALL
A110/A360 1 1/2" = 1'-0"

3

A3 SECURITY GRILL JAMB
A110/A360 1 1/2" = 1'-0"

2



RESTROOM ACCESSORY LEGEND		
NO.	ACCESSORY	DESCRIPTION / BASIS OF DESIGN
TA01	SOAP DISPENSER	BRADLEY 6562 SURFACE MOUNT
TA02	TOWEL & WASTE RECEPTACLE	BRADLEY 236 RECESSED
TA03	HAND DRIER	XLERATOR HAND DRIER WITH ADA RECESS KIT
TA04	GRAB BARS	BRADLEY 632-2 18, 36, 42 REF PLACEMENT ON TYPICAL MOUNTING HEIGHT LEGEND
TA05	MIRROR	BRADLEY 781 24 x 36 BRUSHED BLACK
TA06	MOP RACK AND SHELF	BRADLEY 9984
TA07	BABY CHANGING STATION W SAFETY STRAP	KOALA KARE KB310-SSWM SURFACE MOUNT
TA08	TOILET TISSUE DISPENSER	BRADLEY 5402 SURFACE MOUNT
TA09	FEMINE HYGIENE DISPOSAL	BRADLEY 4722-15 SURFACE MOUNT
TA10	COAT HOOK	BY PARTITION MANUF TYP ALL PARTITION DOORS

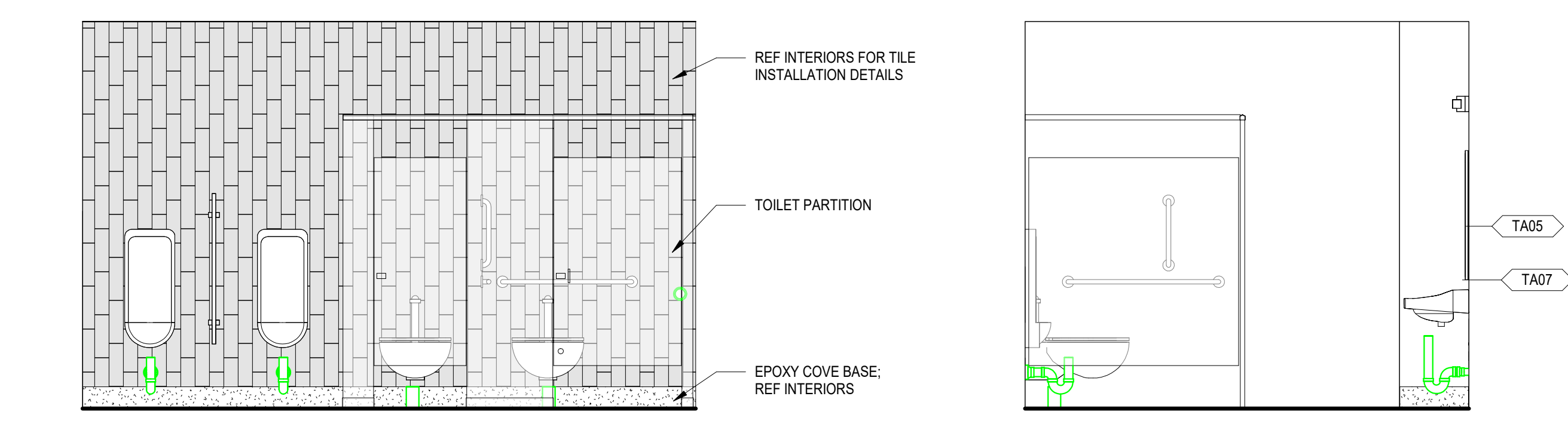


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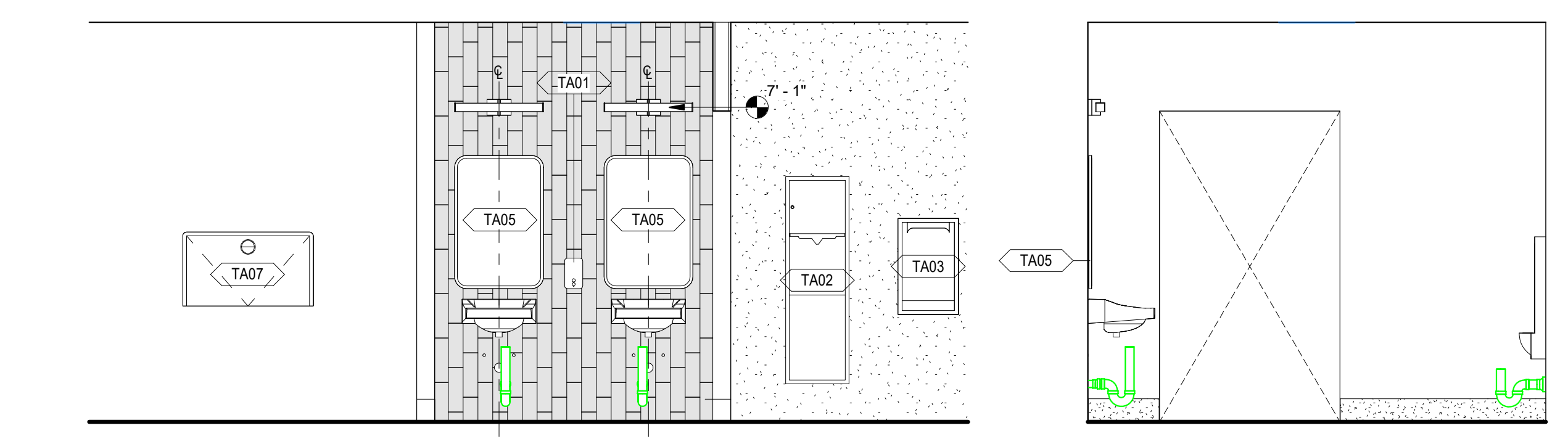
TYPICAL MOUNTING HEIGHTS
1/2" = 1'-0"

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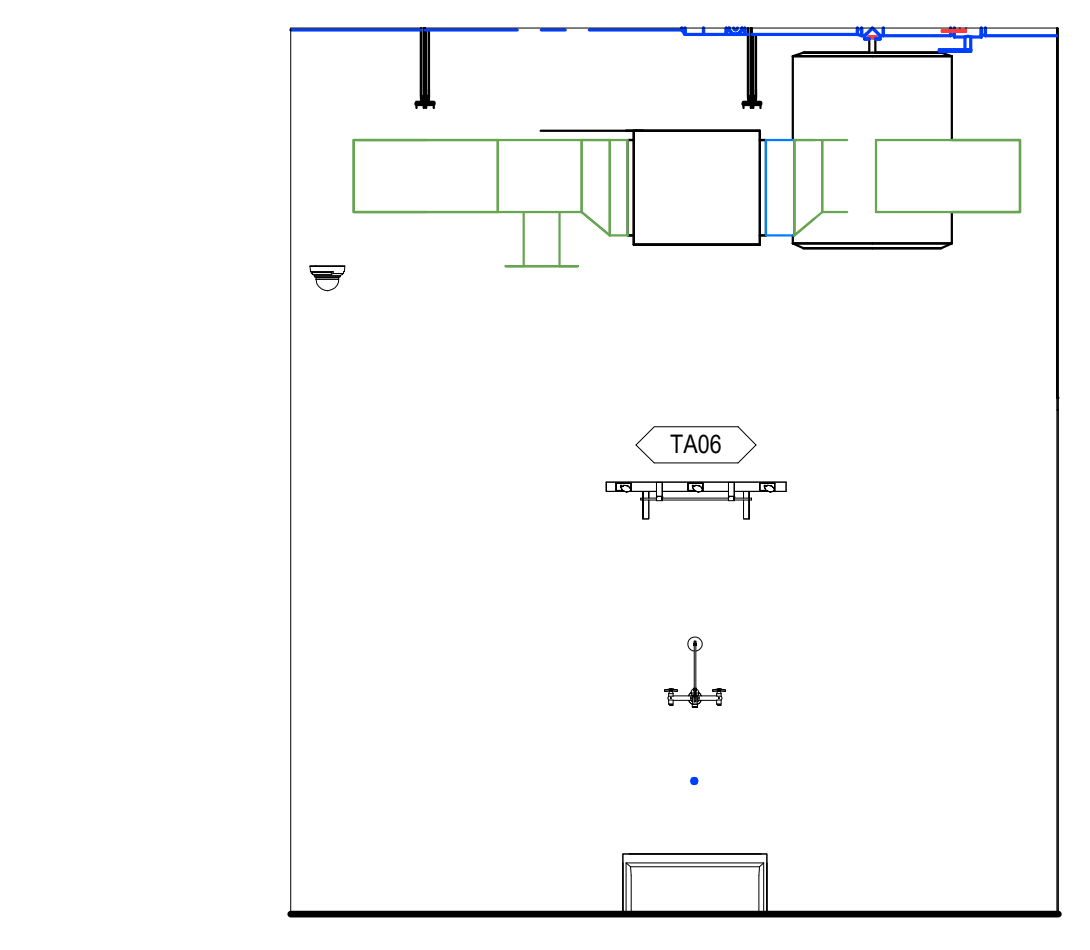
C5 INTERIOR ELEVATION - MENS RR - 1
A420 3/8" = 1'-0"

C4 INTERIOR ELEVATION - MENS RR - 2
A420 3/8" = 1'-0"

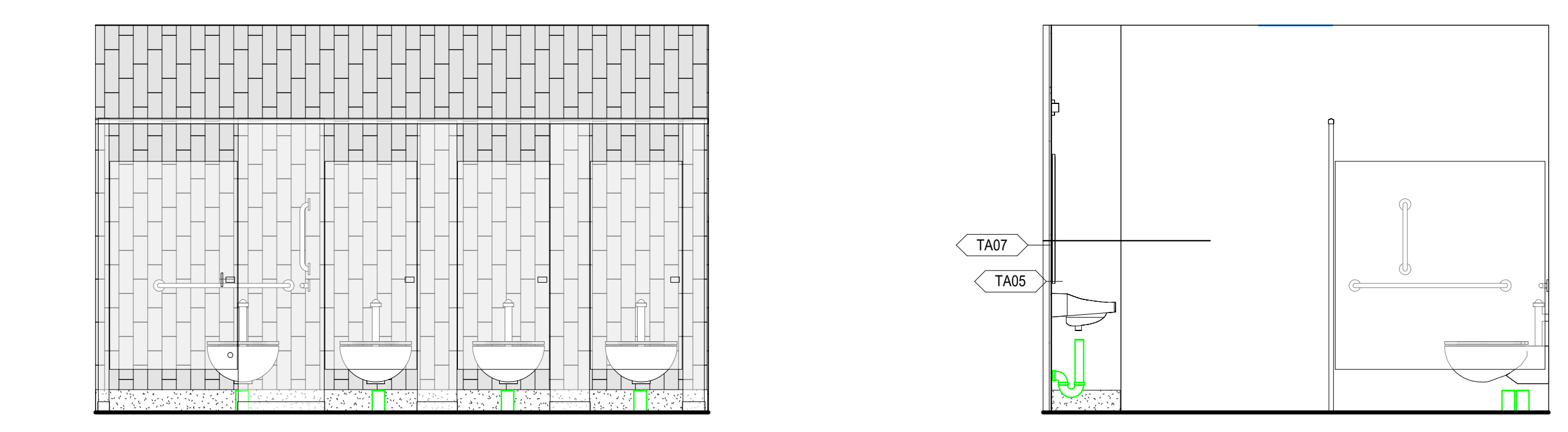


C3 INTERIOR ELEVATION - MENS RR - 3
A420 3/8" = 1'-0"

C2 INTERIOR ELEVATION - MENS RR - 4
A420 3/8" = 1'-0"

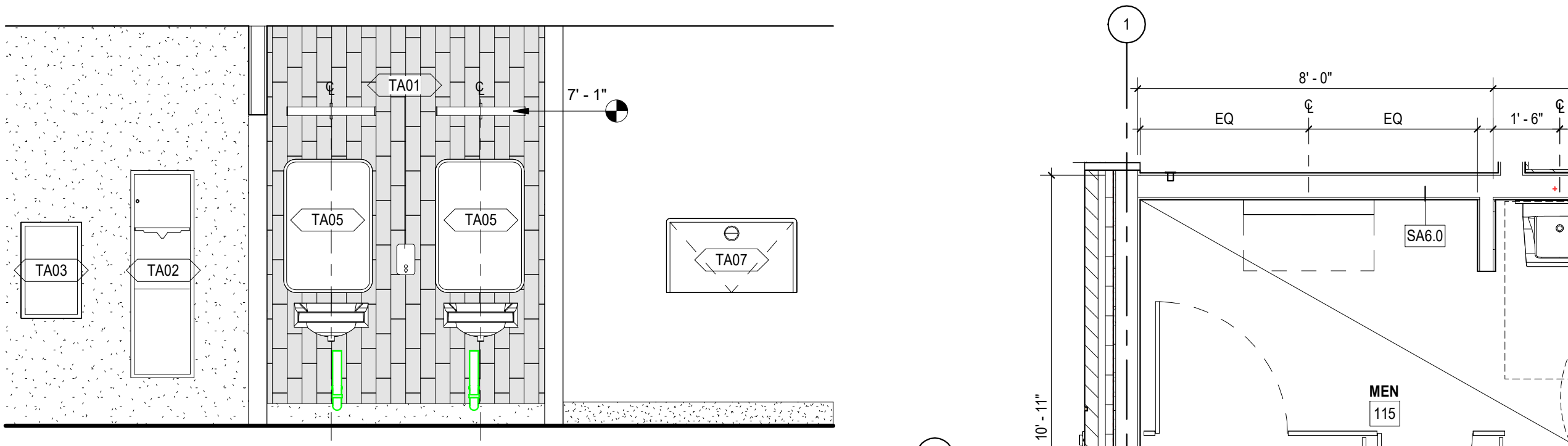


C1 INTERIOR ELEVATION - JANITOR
A420 3/8" = 1'-0"

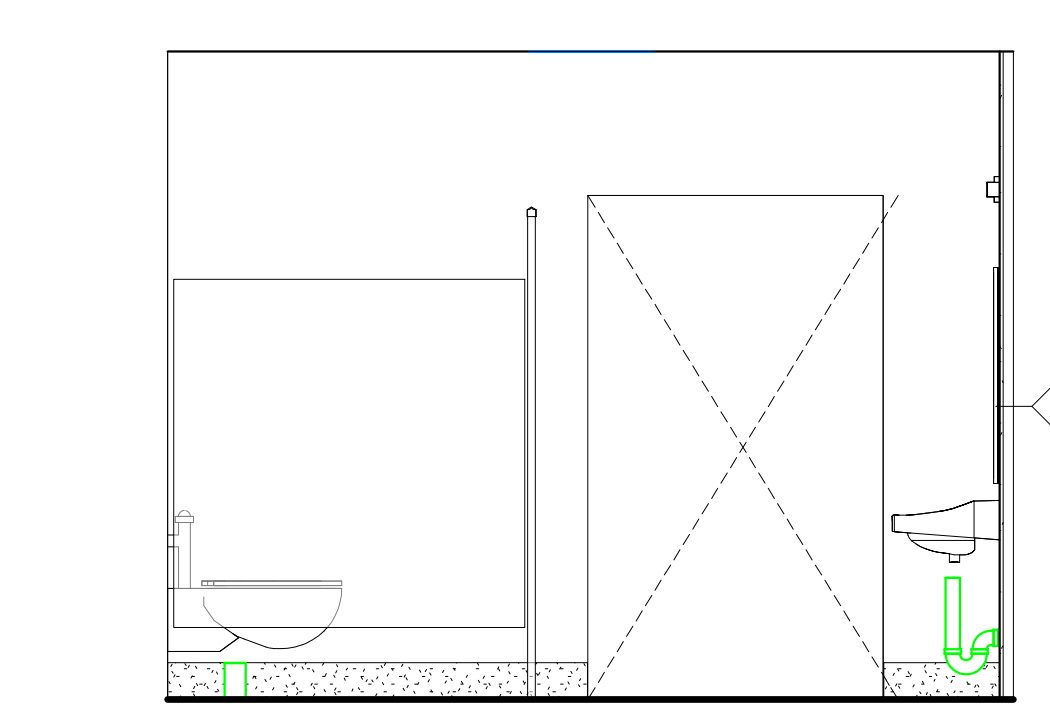


B5 INTERIOR ELEVATION - WOMENS RR - 1
A420 3/8" = 1'-0"

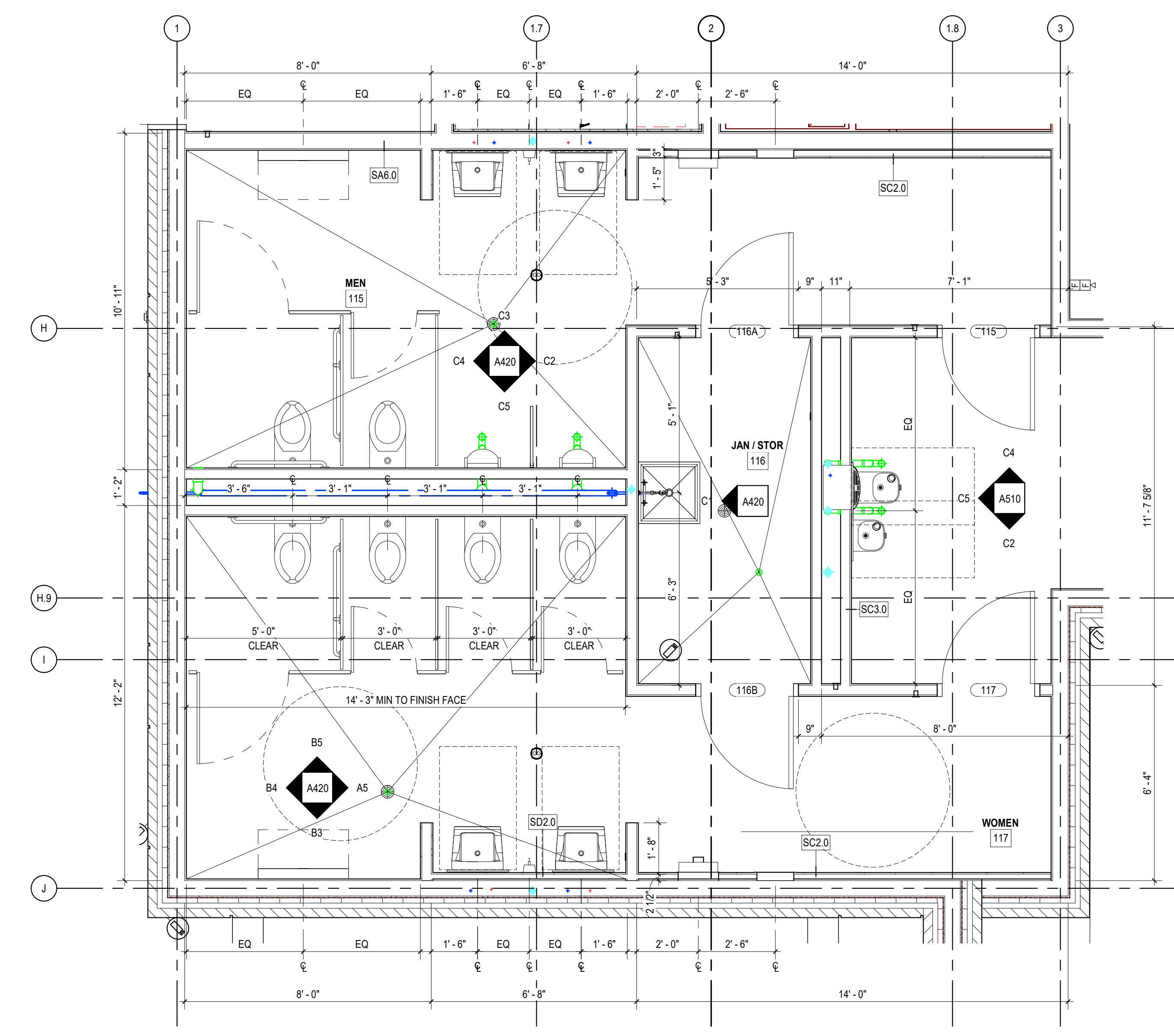
B4 INTERIOR ELEVATION - WOMENS RR - 2
A420 3/8" = 1'-0"



B3 INTERIOR ELEVATION - WOMENS RR - 3
A420 3/8" = 1'-0"



A5 INTERIOR ELEVATION - WOMENS RR - 4
A420 3/8" = 1'-0"



A2 ENLARGED PLAN - RESTROOMS
A420 3/8" = 1'-0"

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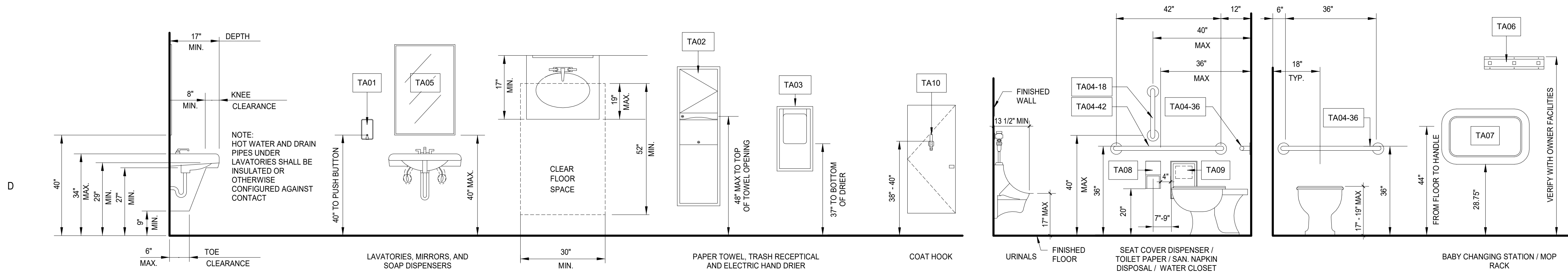
ISSUE DATE: 2024.06.28
 PHASE: CONSTRUCTION DOCUMENTS
 SHEET ISSUE:
 NO. DATE DESCRIPTION
 B 2024.04.10 DESIGN DEVELOPMENT
 C 2024.06.28 CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE: DRM
 PROJECT ARCHITECT: AMG
 DRAWN BY: KW

SHEET TITLE:
ENLARGED RESTROOM PLANS & ELEVATIONS

SHEET NO. PROJ. NO. 023432

A420



RESTROOM ACCESSORY LEGEND		
NO.	ACCESSORY	DESCRIPTION / BASIS OF DESIGN
TA01	SOAP DISPENSER	BRADLEY 6562 SURFACE MOUNT
TA02	TOWEL & WASTE RECEPTACLE	BRADLEY 236 RECESSED
TA03	HAND DRIER	XLERATOR HAND DRIER WITH ADA RECESS KIT
TA04	GRAB BARS	BRADLEY 632-2 18, 36, 42 REF PLACEMENT ON TYPICAL MOUNTING HEIGHT LEGEND
TA05	MIRROR	BRADLEY 781 24 x 36 BRUSHED BLACK
TA06	MOP RACK AND SHELF	BRADLEY 9984
TA07	BABY CHANGING STATION W SAFETY STRAP	KOALA KARE KB310-SSWM SURFACE MOUNT
TA08	TOILET TISSUE DISPENSER	BRADLEY 5402 SURFACE MOUNT
TA09	FEMINE HYGIENE DISPOSAL	BRADLEY 4722-15 SURFACE MOUNT
TA10	COAT HOOK	BY PARTITION MANUF TYP ALL PARTITION DOORS

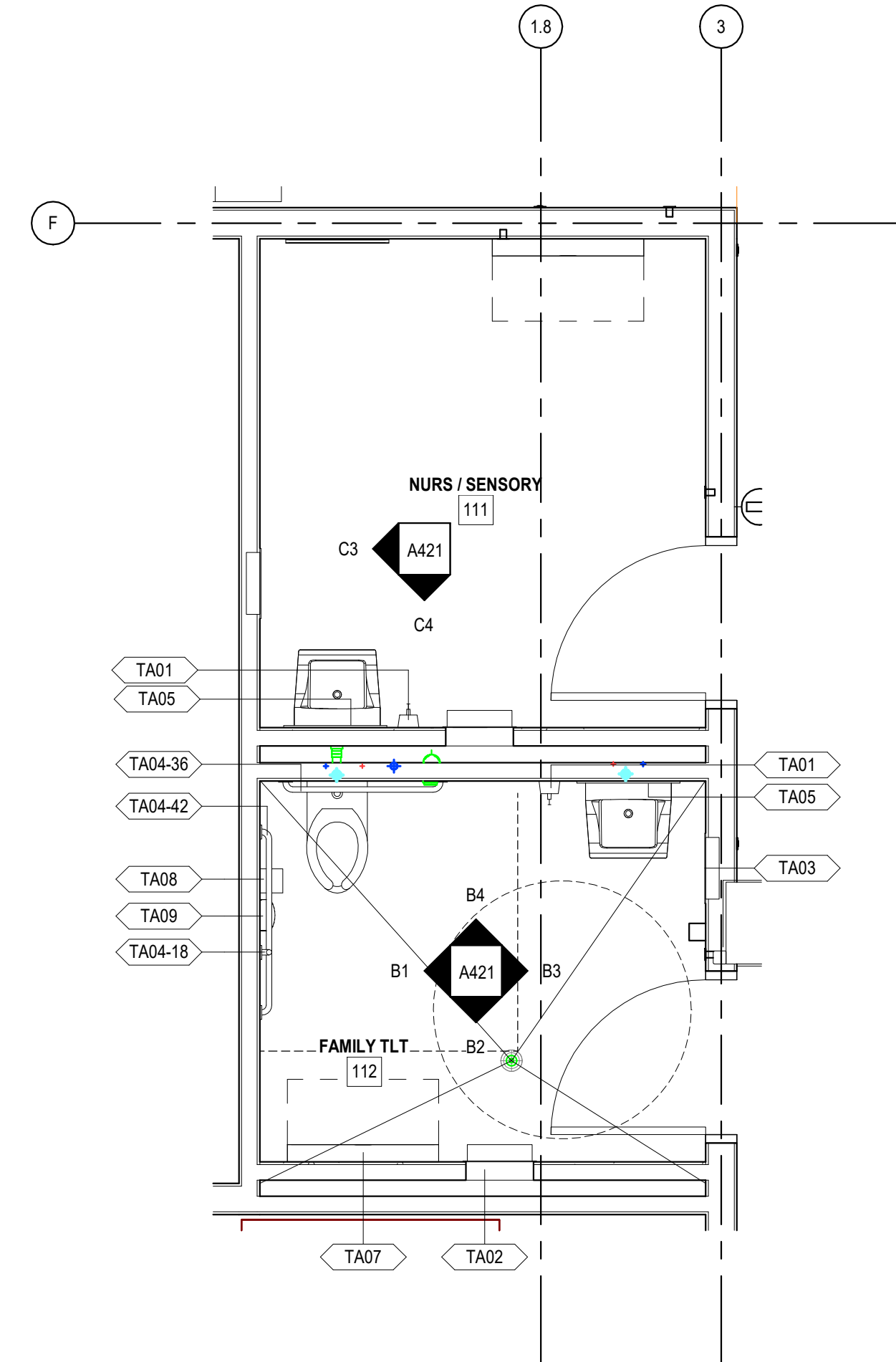


CONSULTANT LOGO

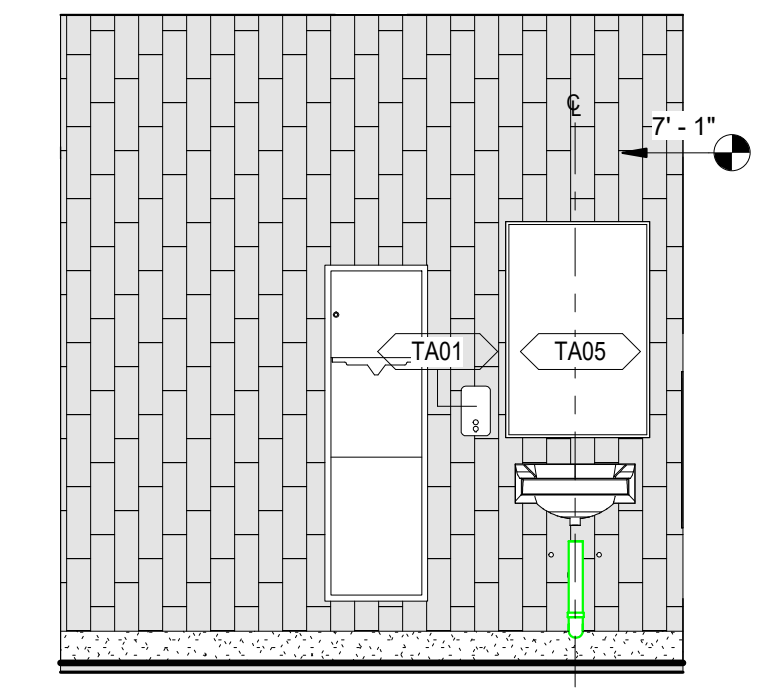
SEALS

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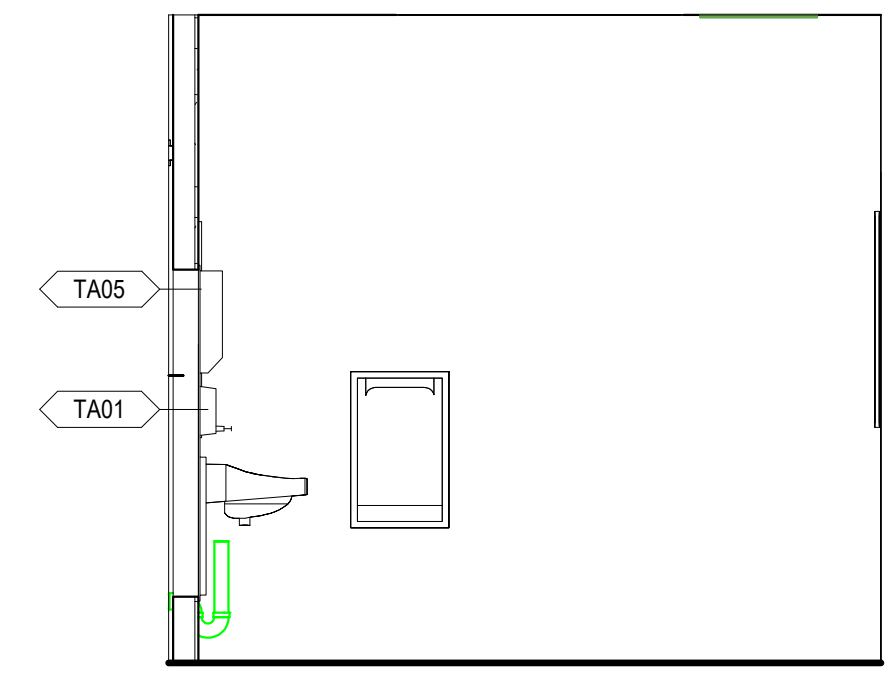
TYPICAL MOUNTING HEIGHTS



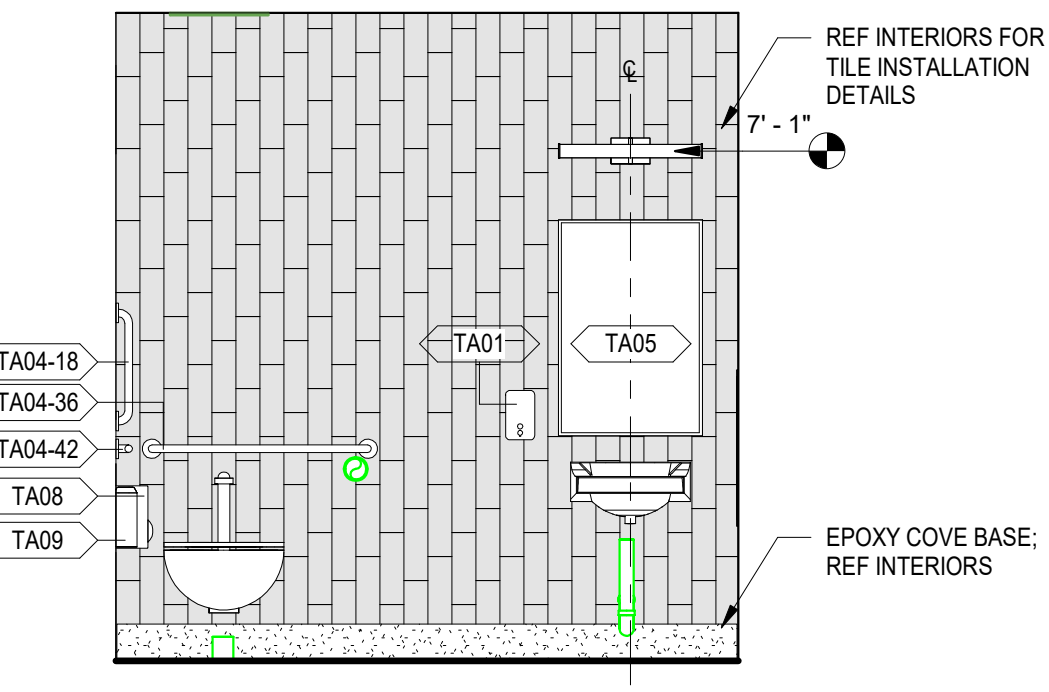
C4 INTERIOR ELEVATION - NURSING - 1



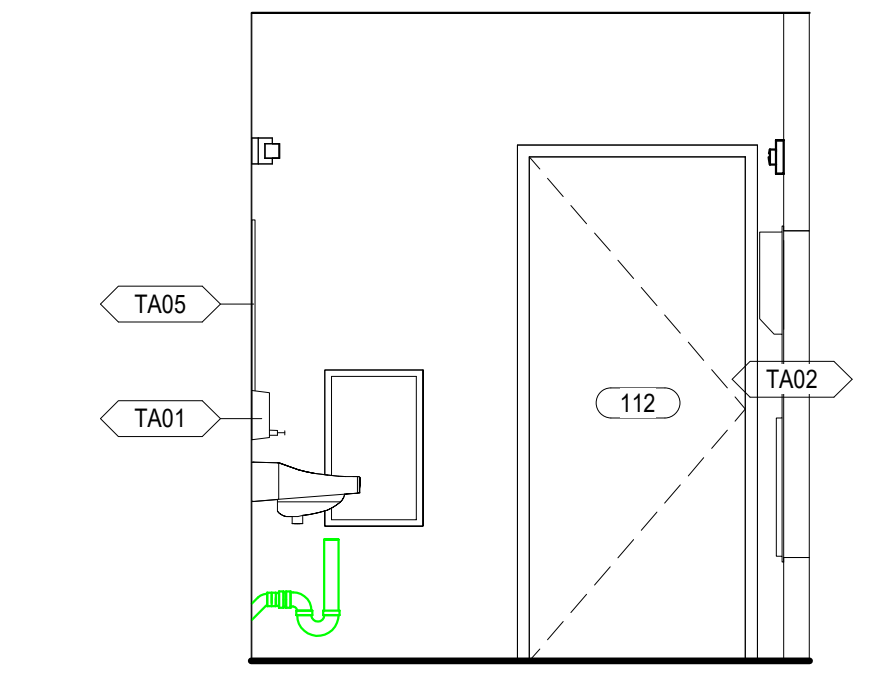
C3 INTERIOR ELEVATION - NURSING - 2



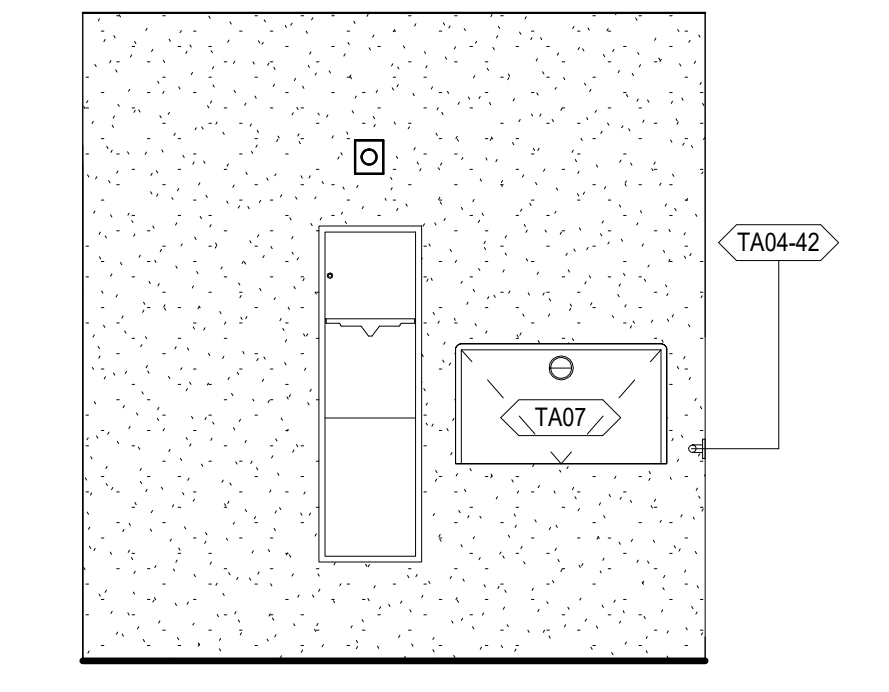
B4 INTERIOR ELEVATION - FAM RR - 1



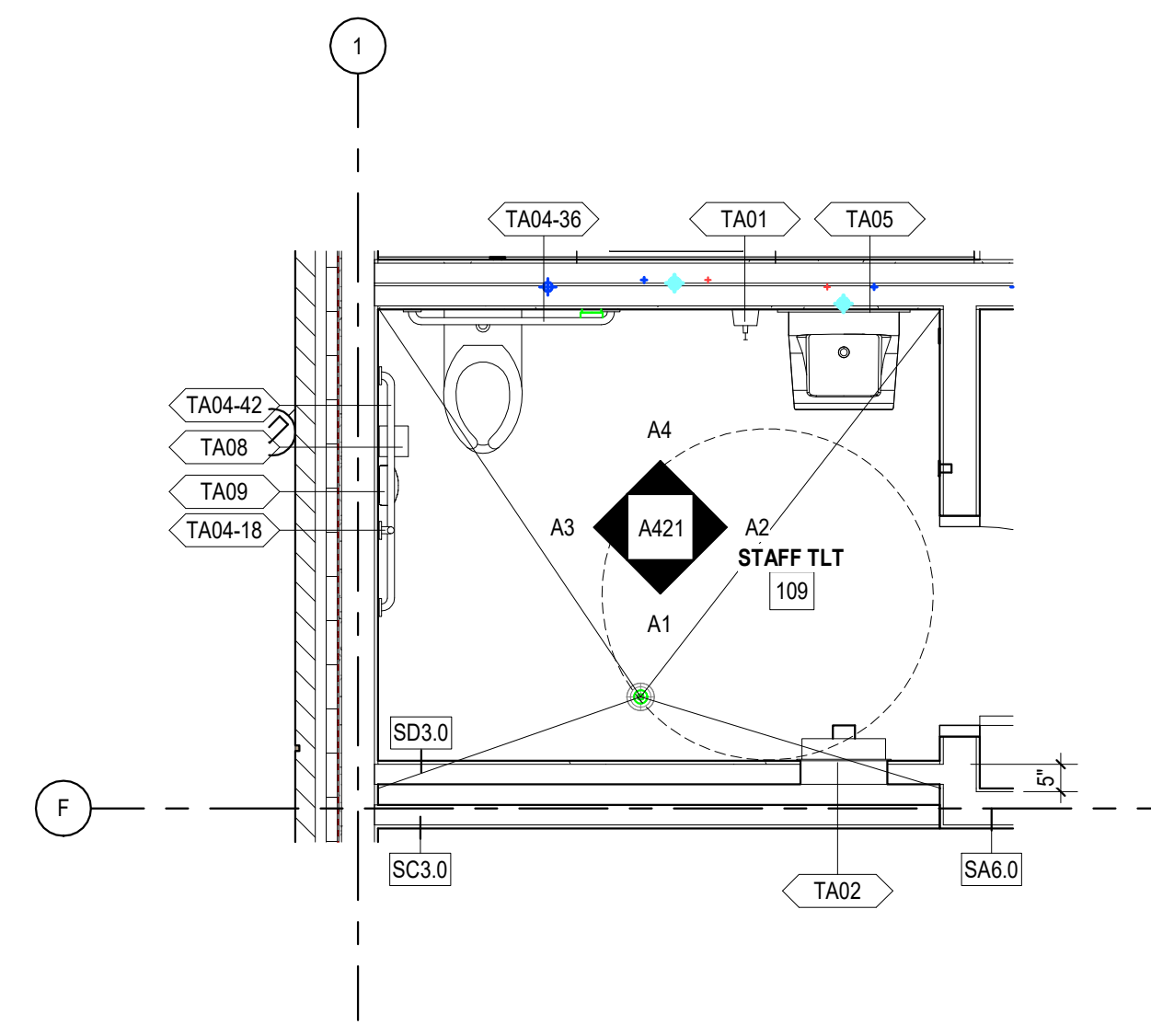
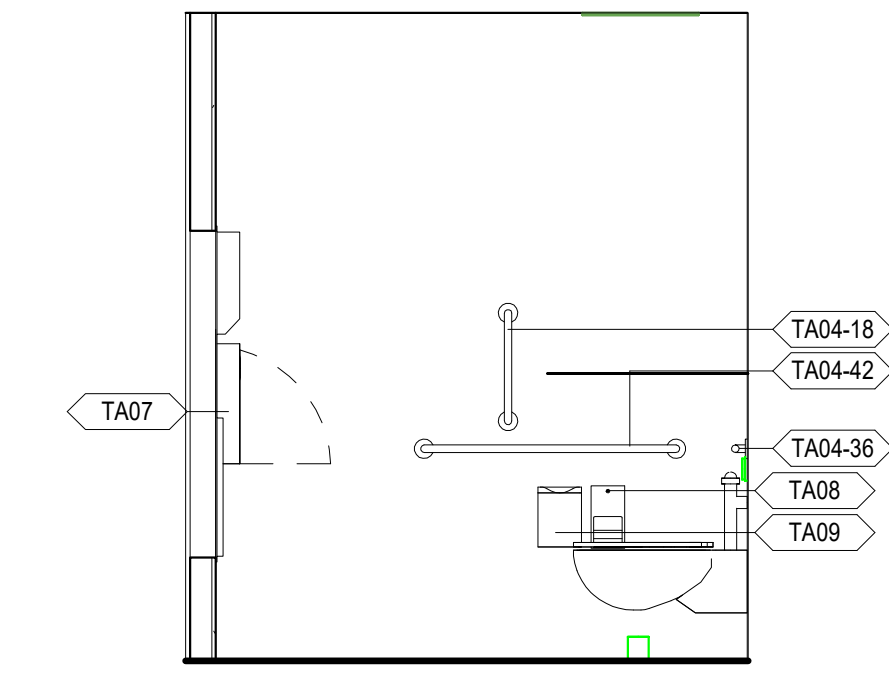
B3 INTERIOR ELEVATION - FAM RR - 2



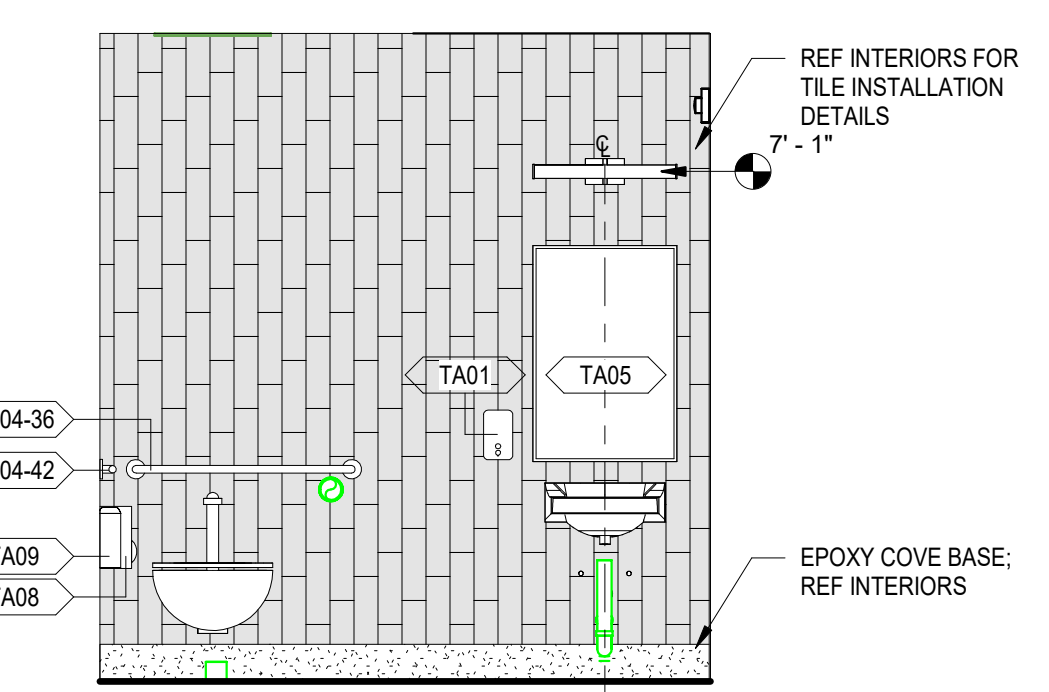
B2 INTERIOR ELEVATION - FAM RR - 3



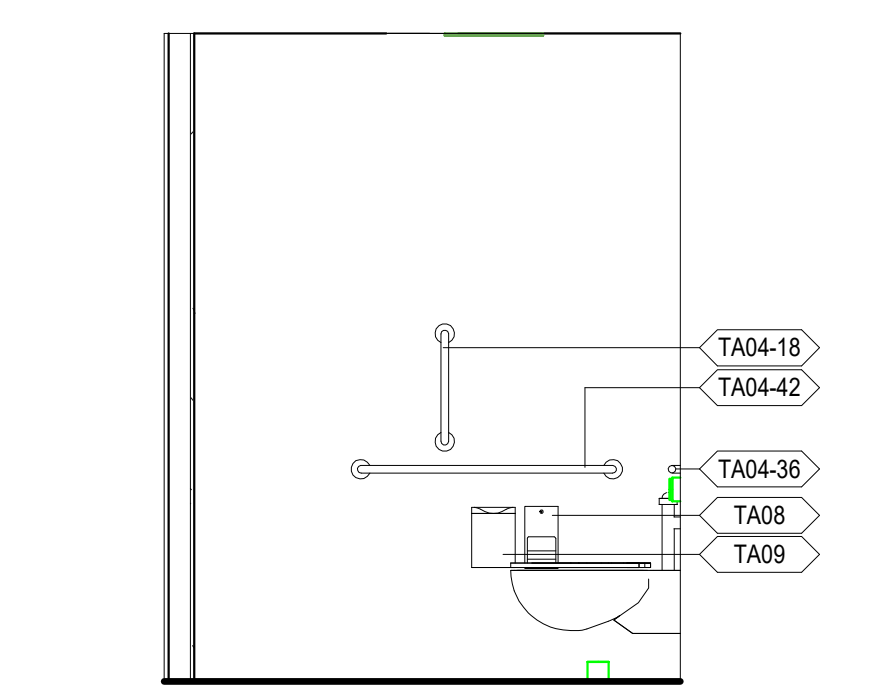
B1 INTERIOR ELEVATION - FAM RR - 4



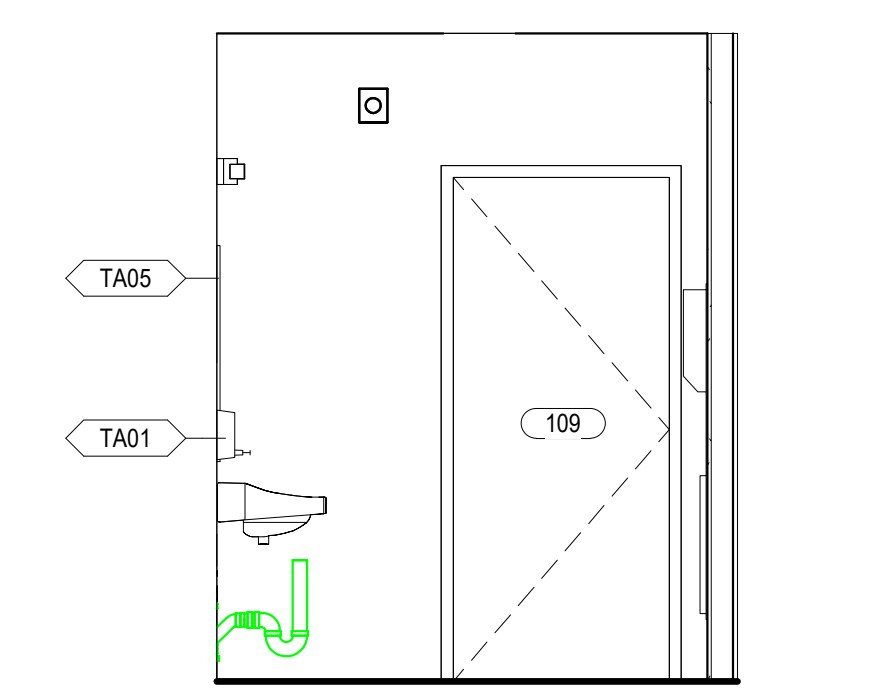
A4 INTERIOR ELEVATION - STAFF RR - 1



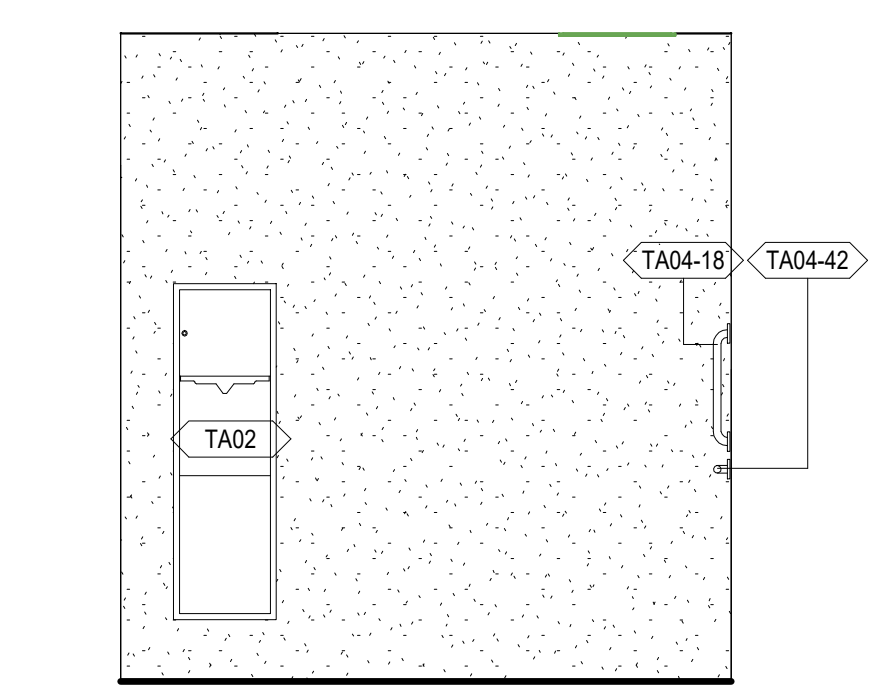
A3 INTERIOR ELEVATION - STAFF RR - 2



A2 INTERIOR ELEVATION - STAFF RR - 3



A1 INTERIOR ELEVATION - STAFF RR - 4



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LOGANVILLE, GEORGIA

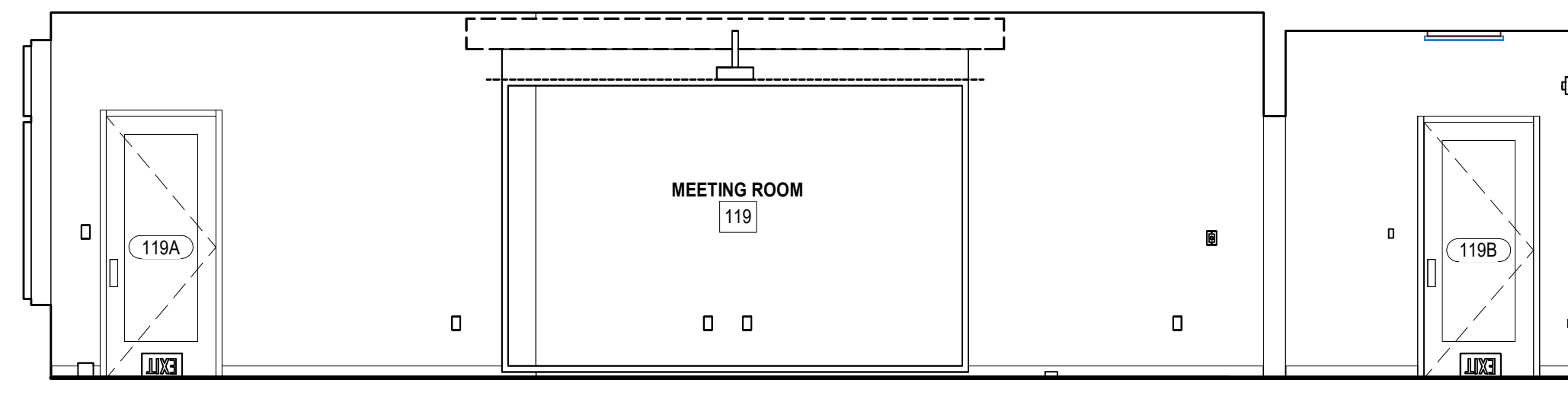
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 SHEET TITLE:
ENLARGED RESTROOM PLANS & ELEVATIONS

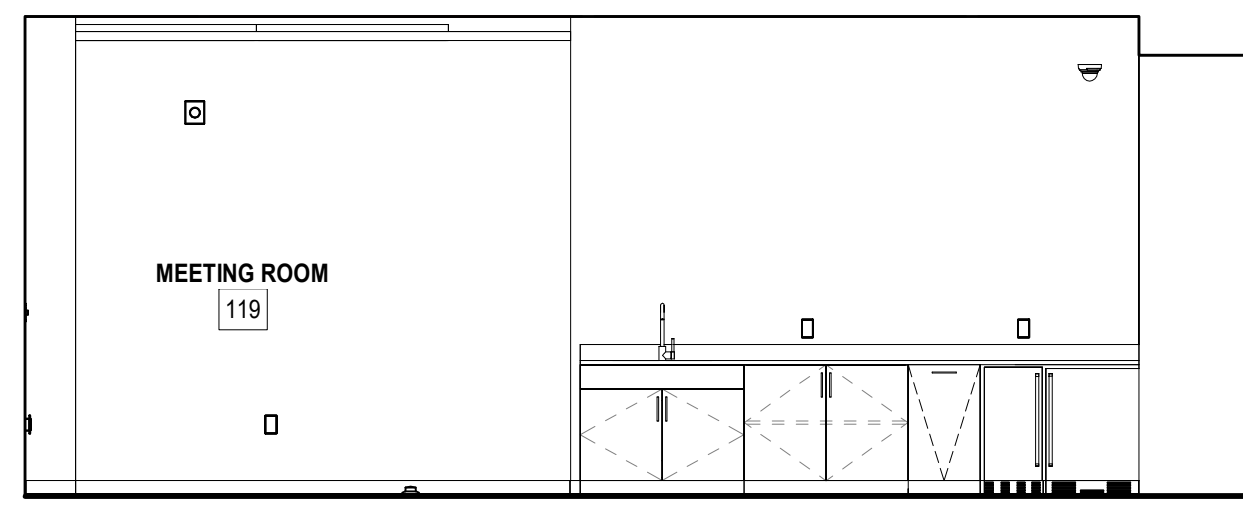
SHEET NO. PROJ. NO.
 025432

A421

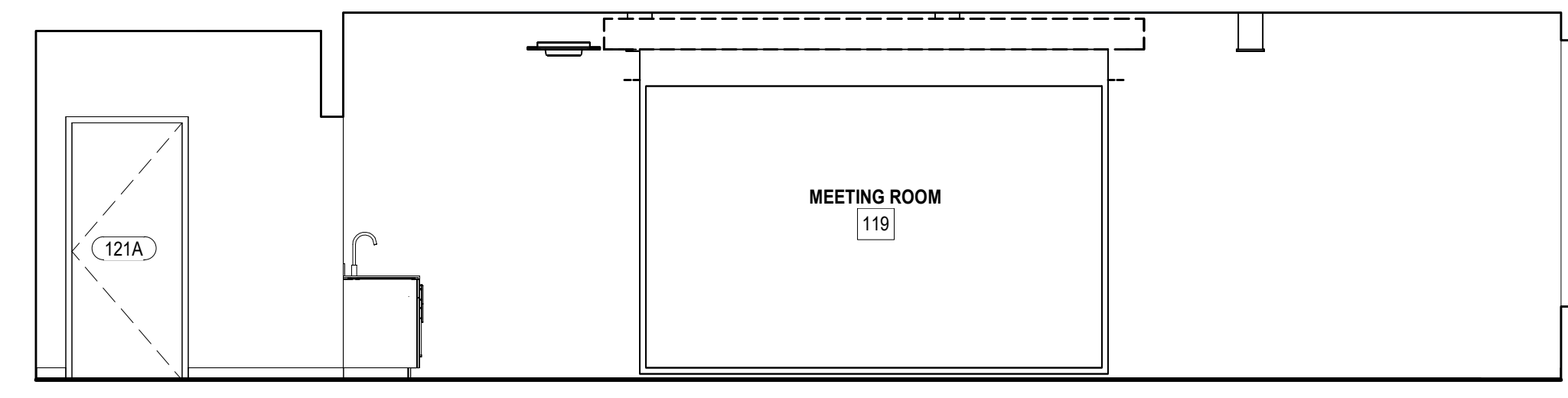
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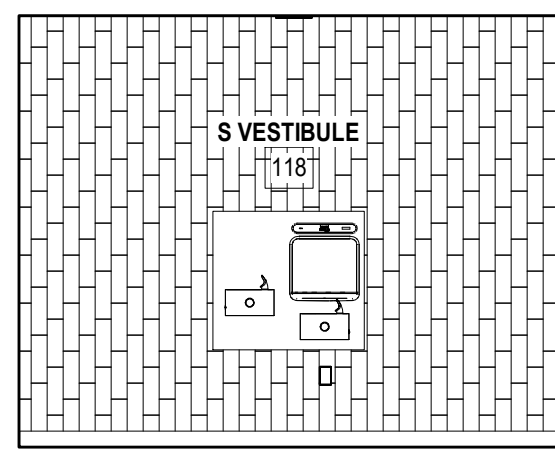
D5 MEETING 119 WEST ELEVATION
A510 1/4" = 1'-0"



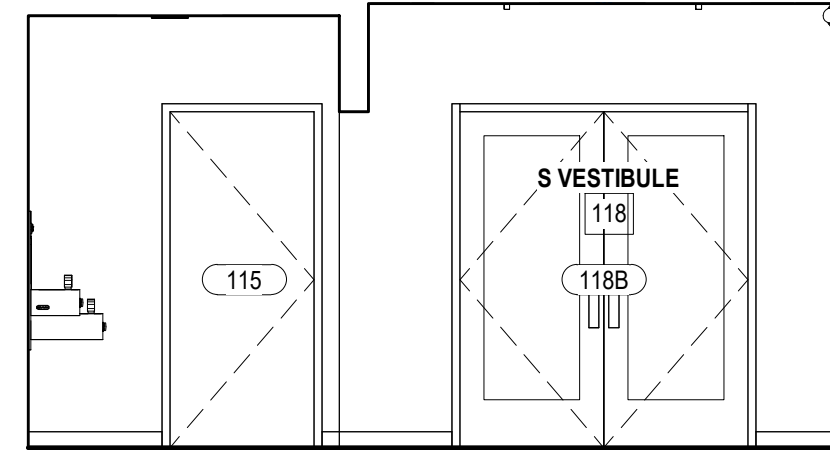
D3 MEETING 119 NORTH ELEVATION
A510 1/4" = 1'-0"



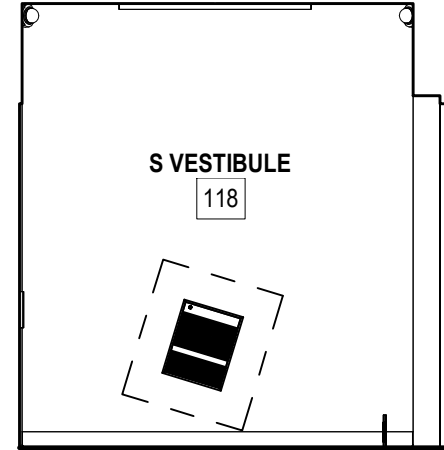
D1 MEETING 119 EAST ELEVATION
A510 1/4" = 1'-0"



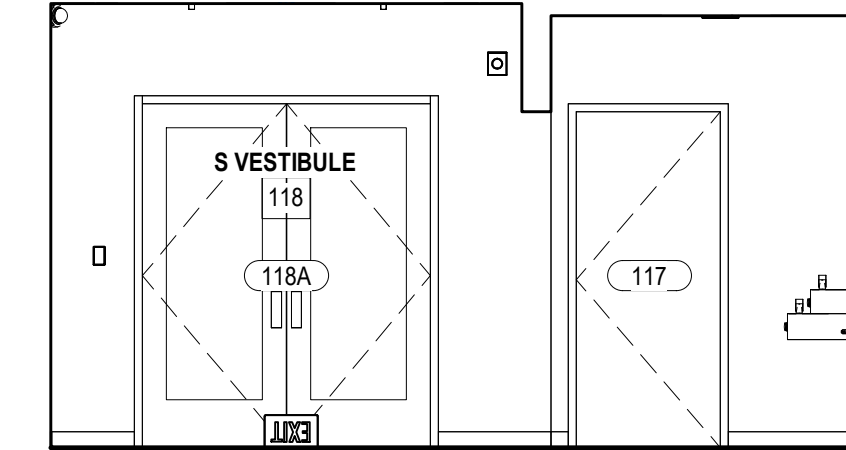
C5 S VESTIBULE 118 WEST ELEVATION
A510 1/4" = 1'-0"



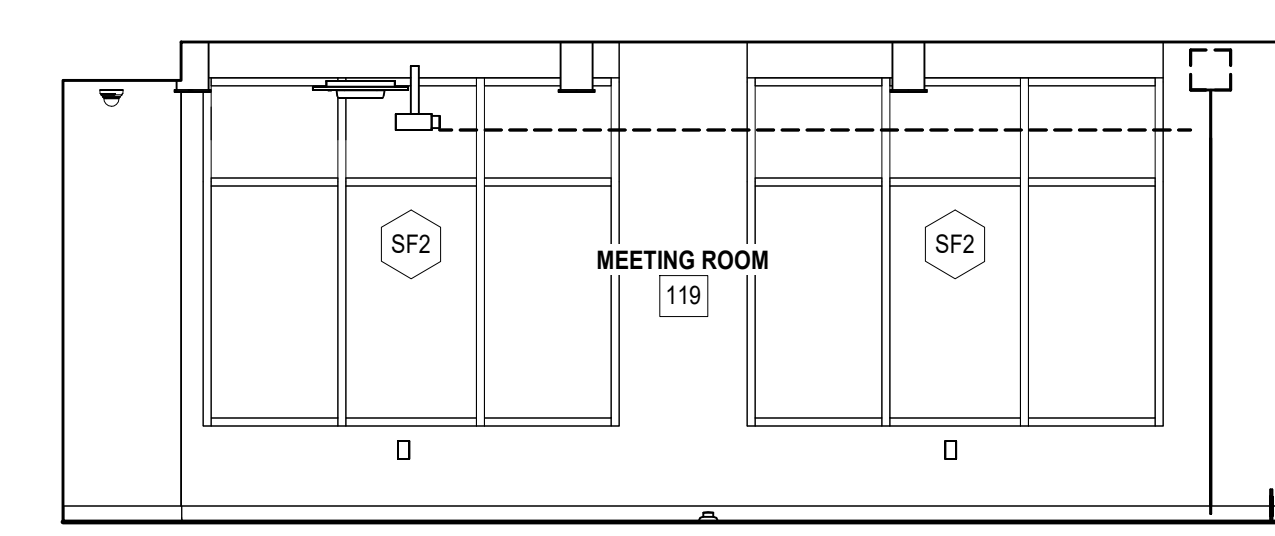
C4 S VESTIBULE 118 NORTH ELEVATION
A510 1/4" = 1'-0"



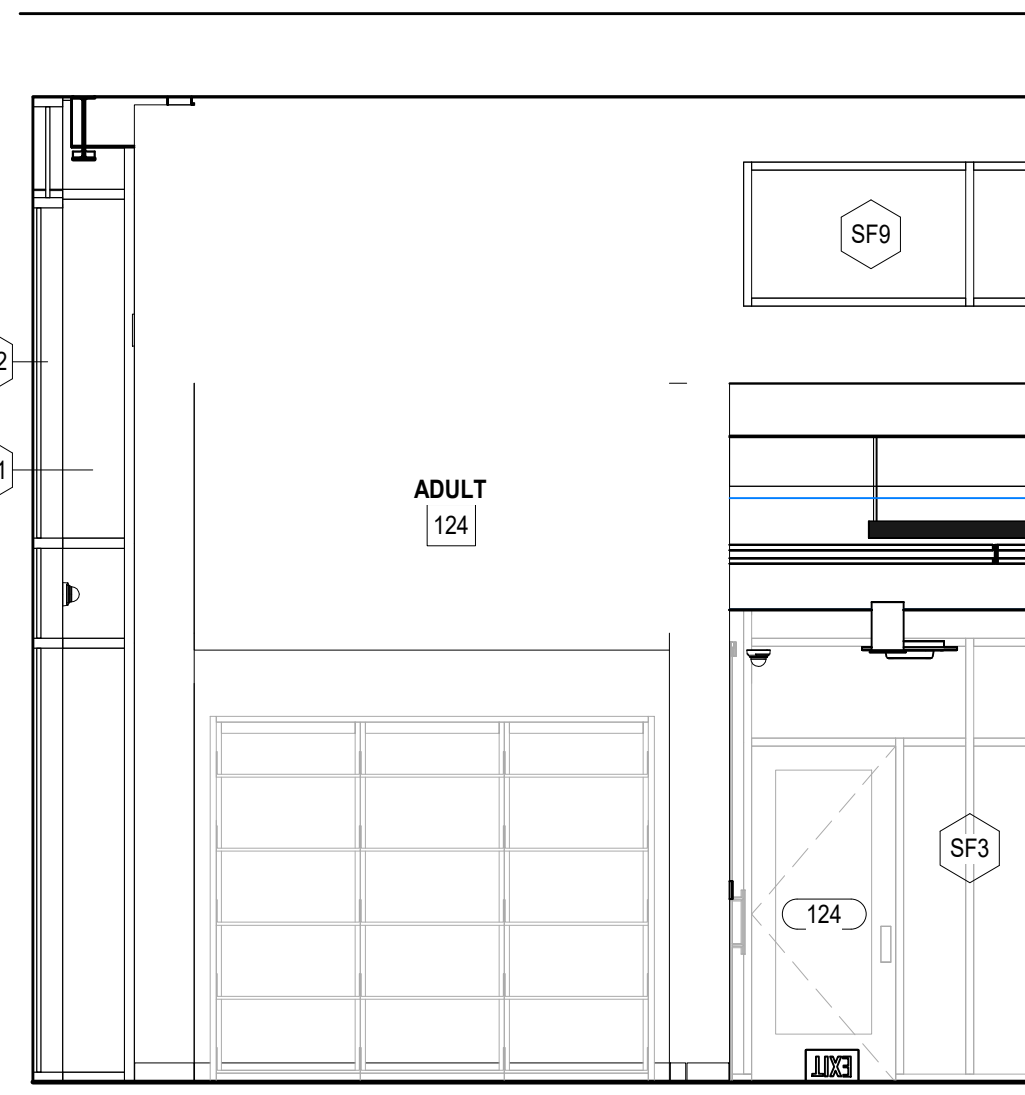
C3 S VESTIBULE 118 EAST ELEVATION
A510 1/4" = 1'-0"



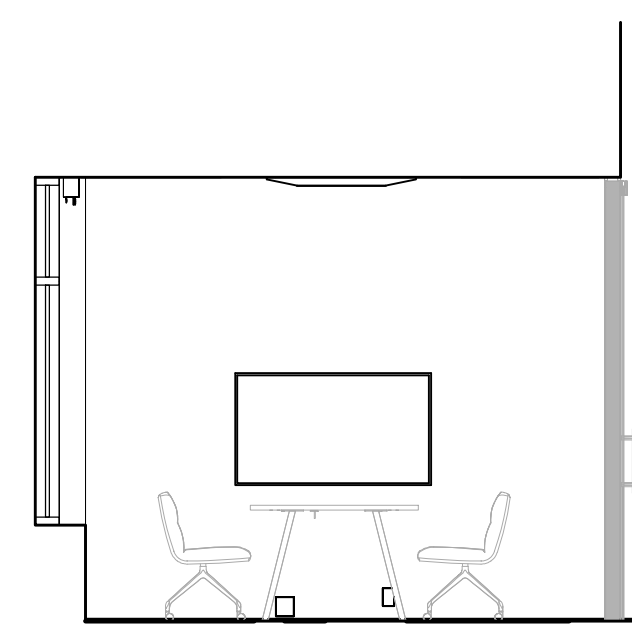
C2 S VESTIBULE 118 SOUTH ELEVATION
A510 1/4" = 1'-0"



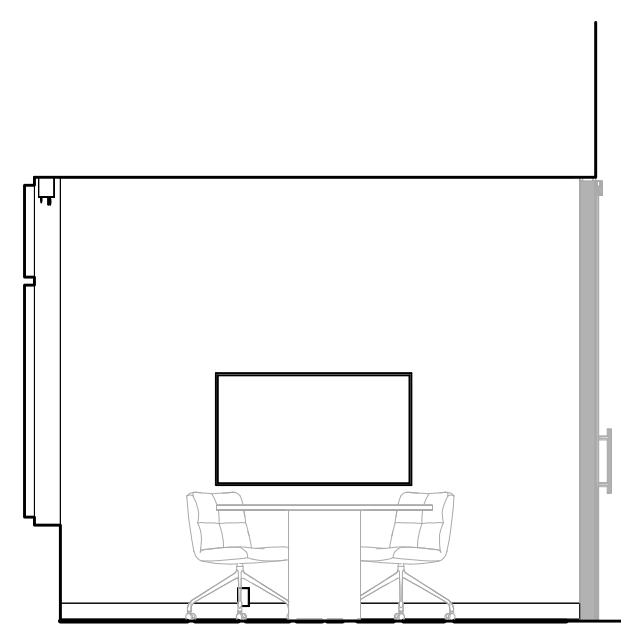
C1 MEETING 119 SOUTH ELEVATION
A510 1/4" = 1'-0"



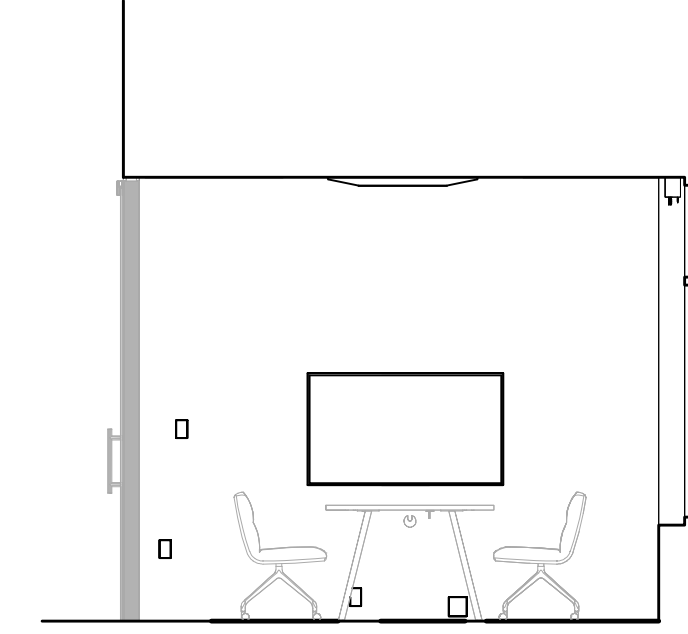
B5 ADULT 124 SHELVING NOOK ELEVATION
A510 1/4" = 1'-0"



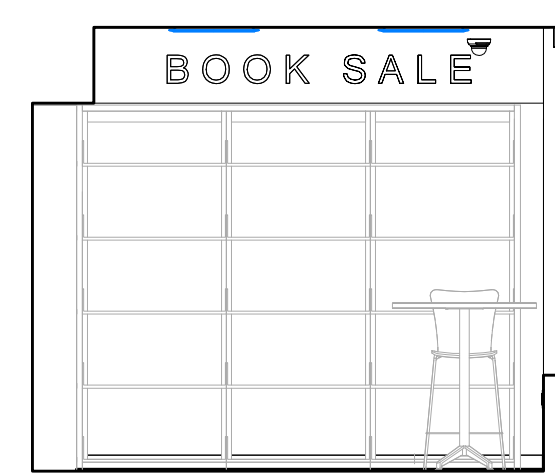
B4 GROUP STUDY 125 ELEVATION
A510 1/4" = 1'-0"



B3 GROUP STUDY 126 ELEVATION
A510 1/4" = 1'-0"



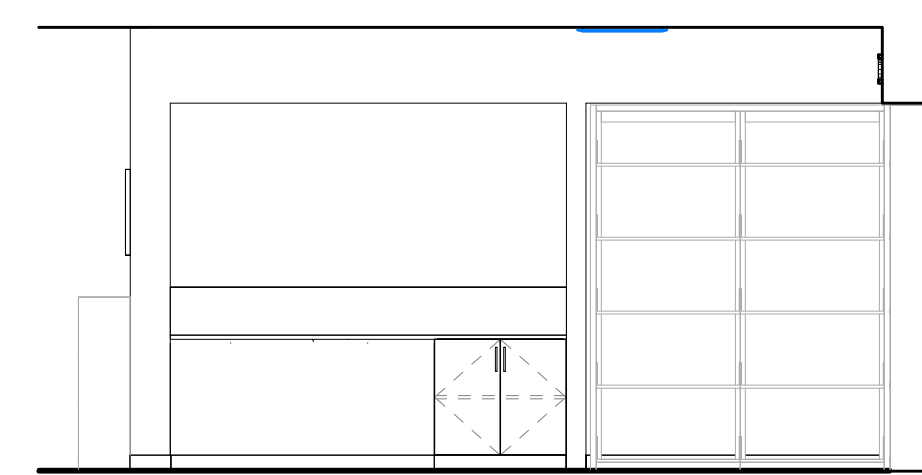
B2 GROUP STUDY 127 ELEVATION
A510 1/4" = 1'-0"



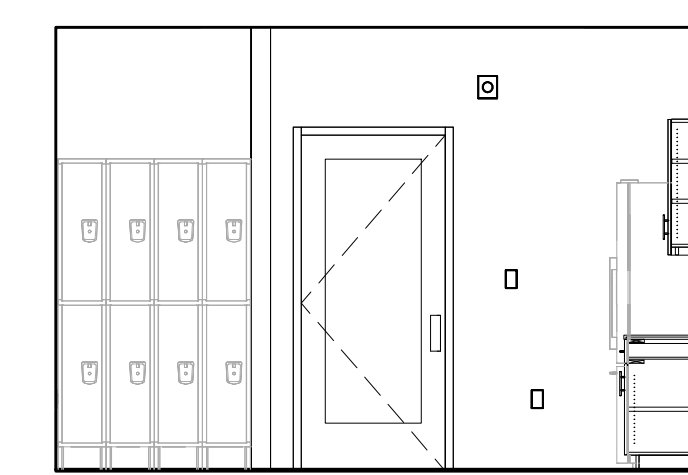
A5 COFFEE / BOOK SALE 102 WEST ELEVATION
A510 1/4" = 1'-0"



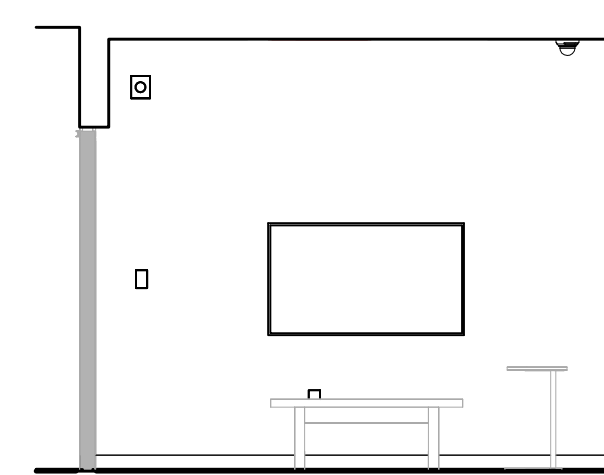
A4 COFFEE / BOOK SALE 102 NORTH ELEVATION
A510 1/4" = 1'-0"



A3 COFFEE BOOK SALE 102 SOUTH ELEVATION
A510 1/4" = 1'-0"



A2 LOUNGE 108 ELEVATION
A510 1/4" = 1'-0"



A1 TEEN 108 ELEVATION
A510 1/4" = 1'-0"

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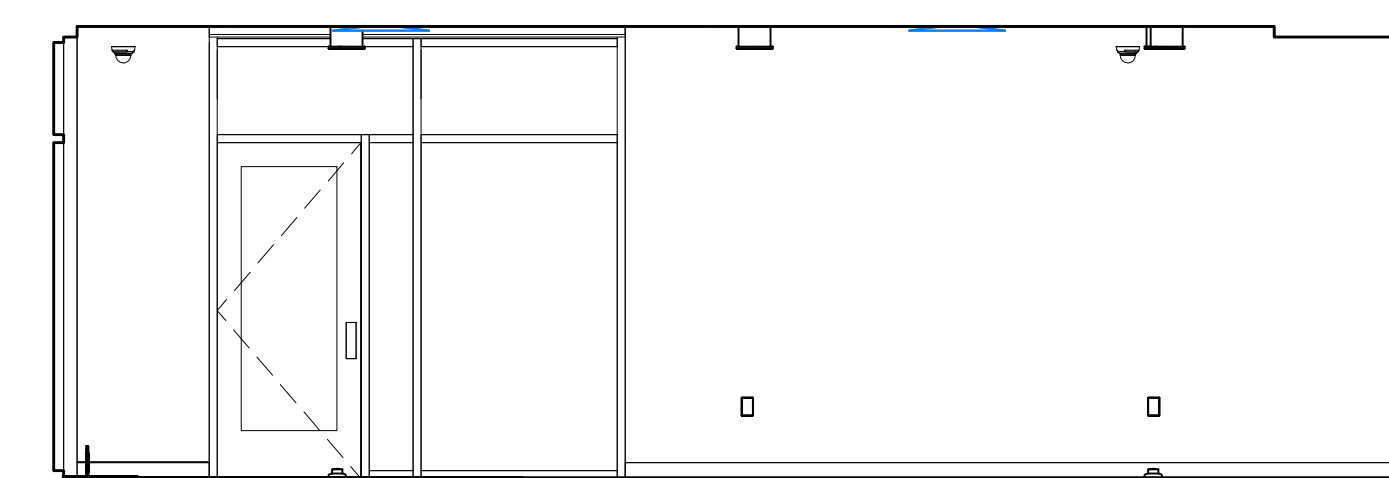
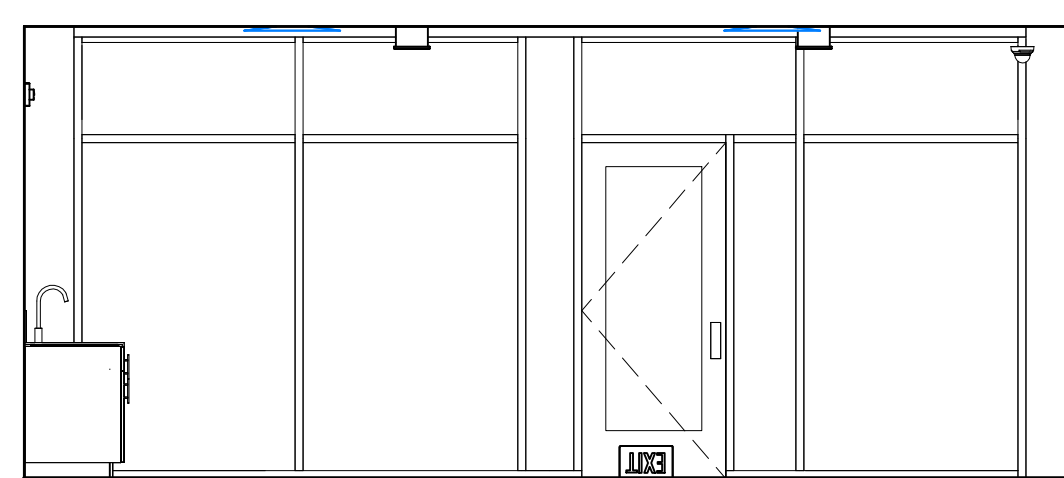
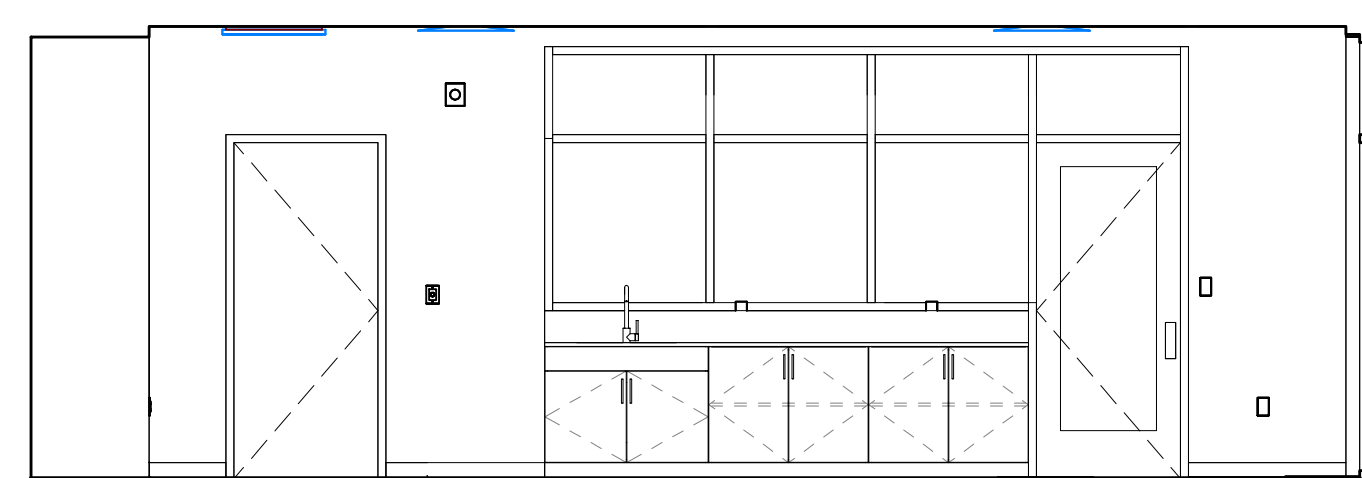
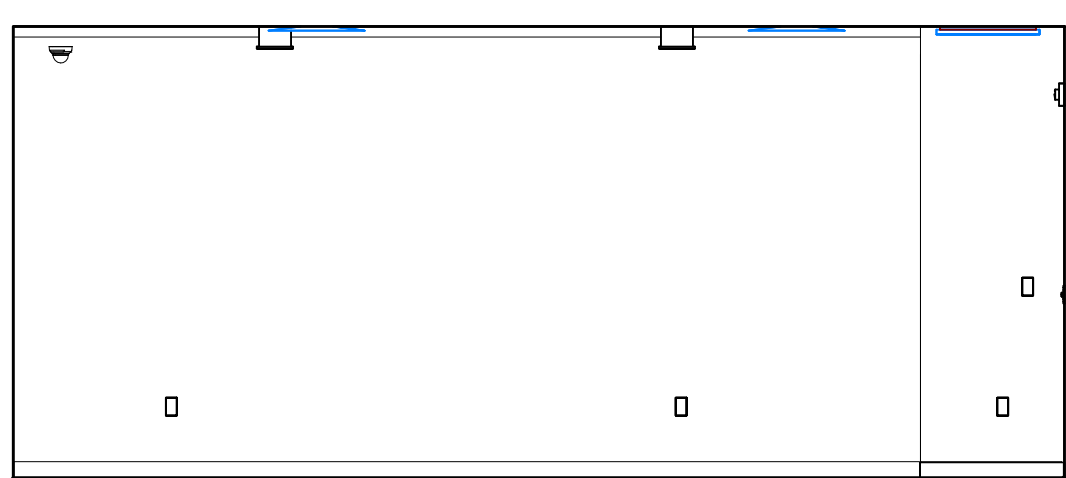
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NO. DATE DESCRIPTION

PRINCIPAL IN CHARGE: DRM
PROJECT ARCHITECT: AMG
DRAWN BY: AMG

SHEET TITLE:
INTERIOR
ELEVATIONS

SHEET NO. PROJ. NO.
023432

A511



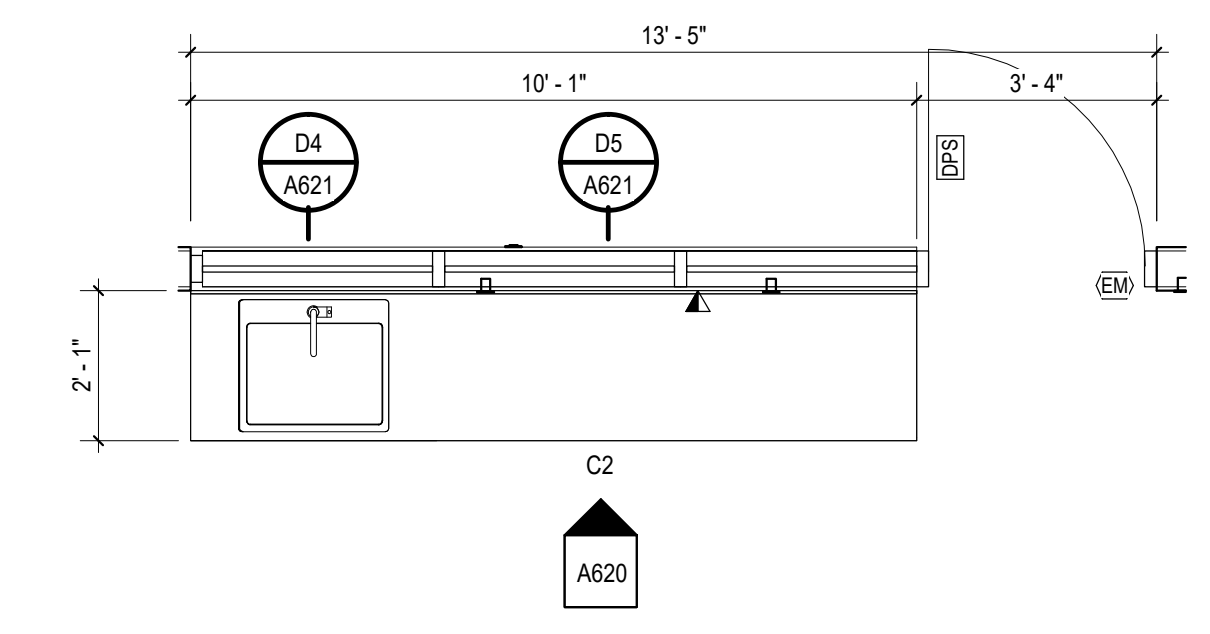
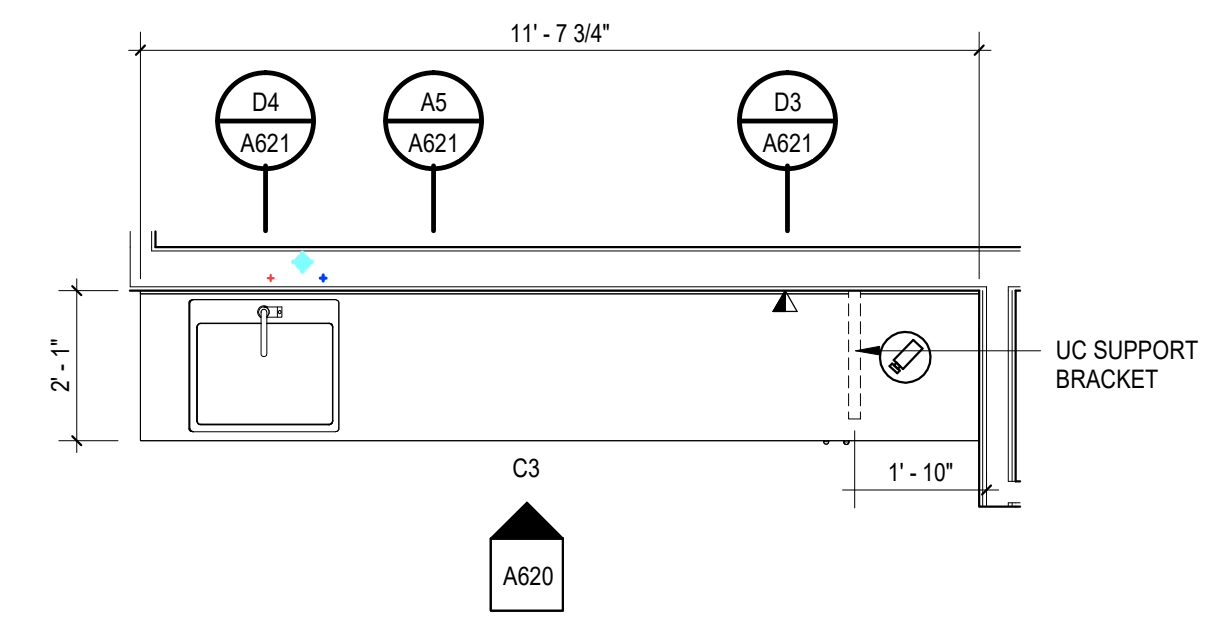
A5 PROGRAM 120 WEST ELEVATION
A511 1/4" = 1'-0"

A4 PROGRAM 120 NORTH ELEVATION
A511 1/4" = 1'-0"

A3 PROGRAM 120 EAST ELEVATION
A511 1/4" = 1'-0"

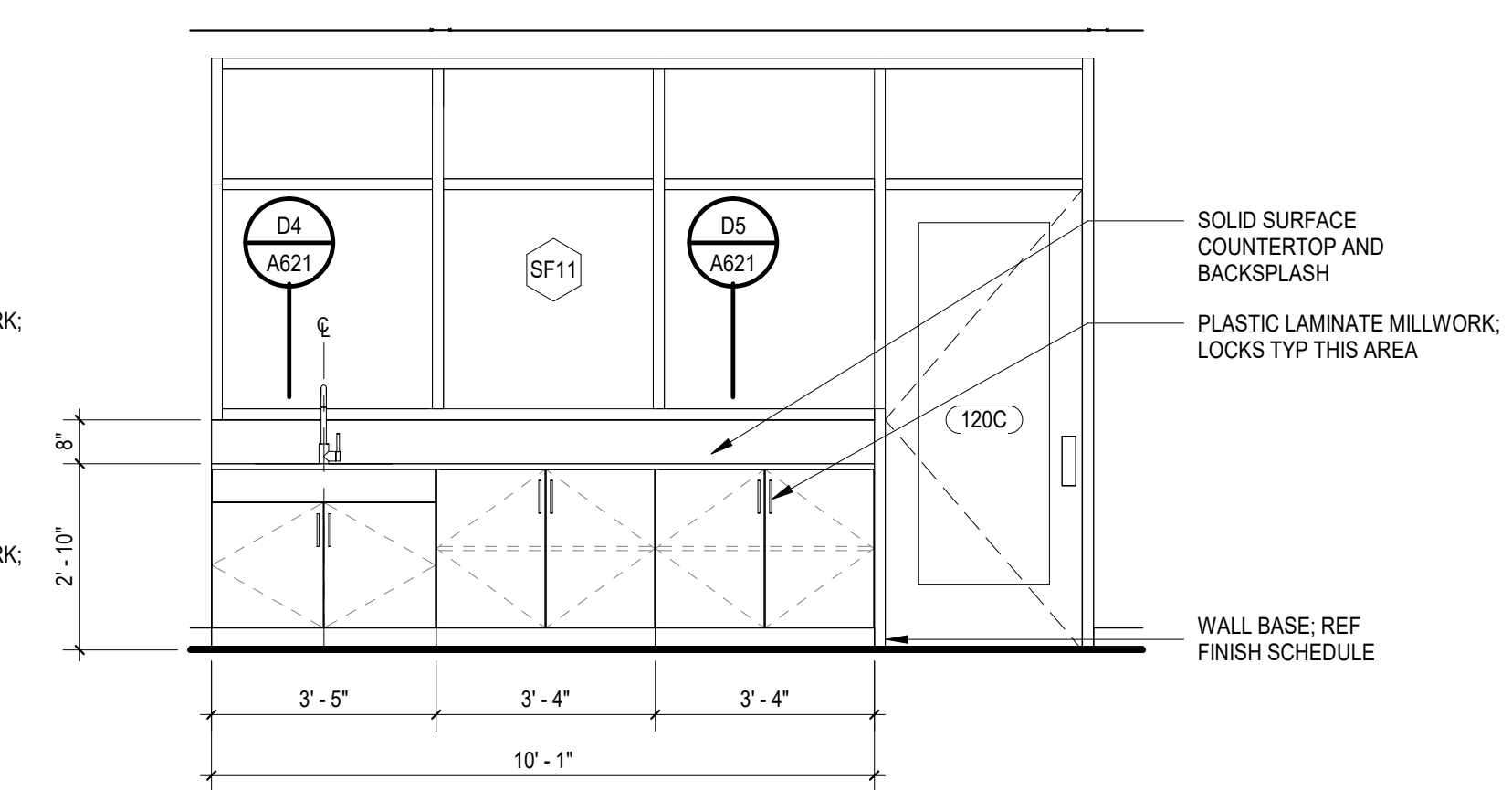
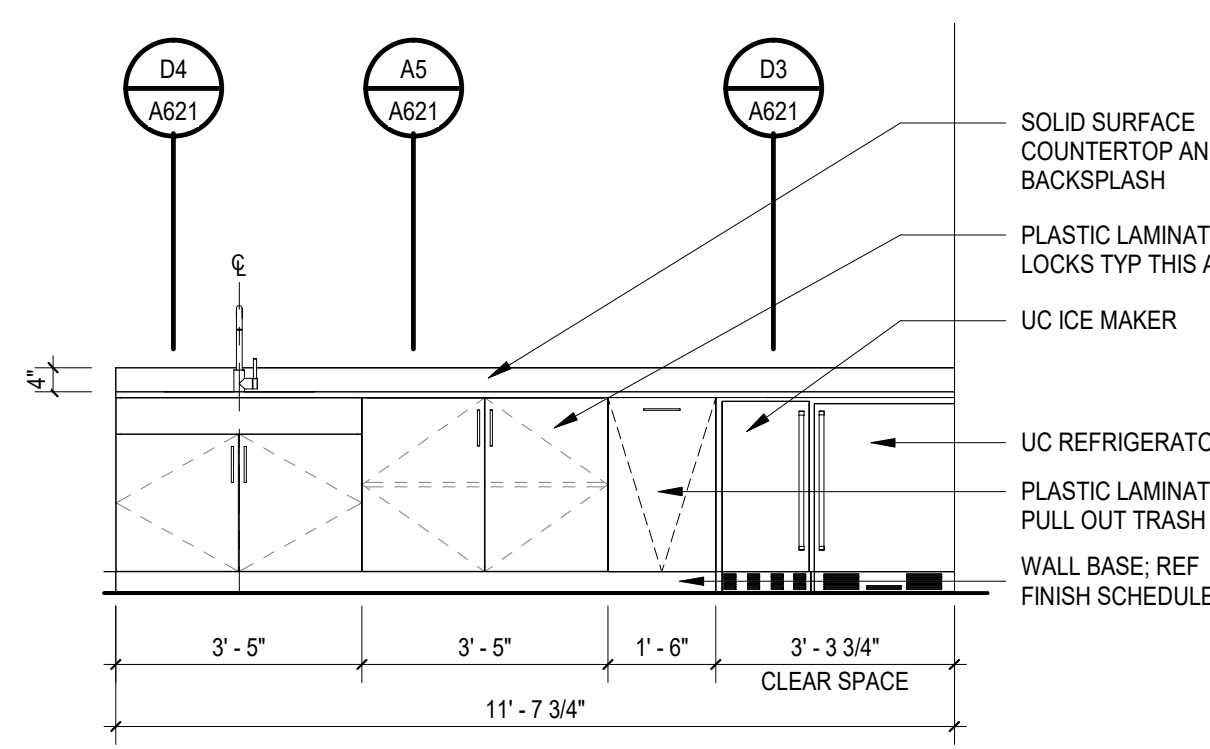
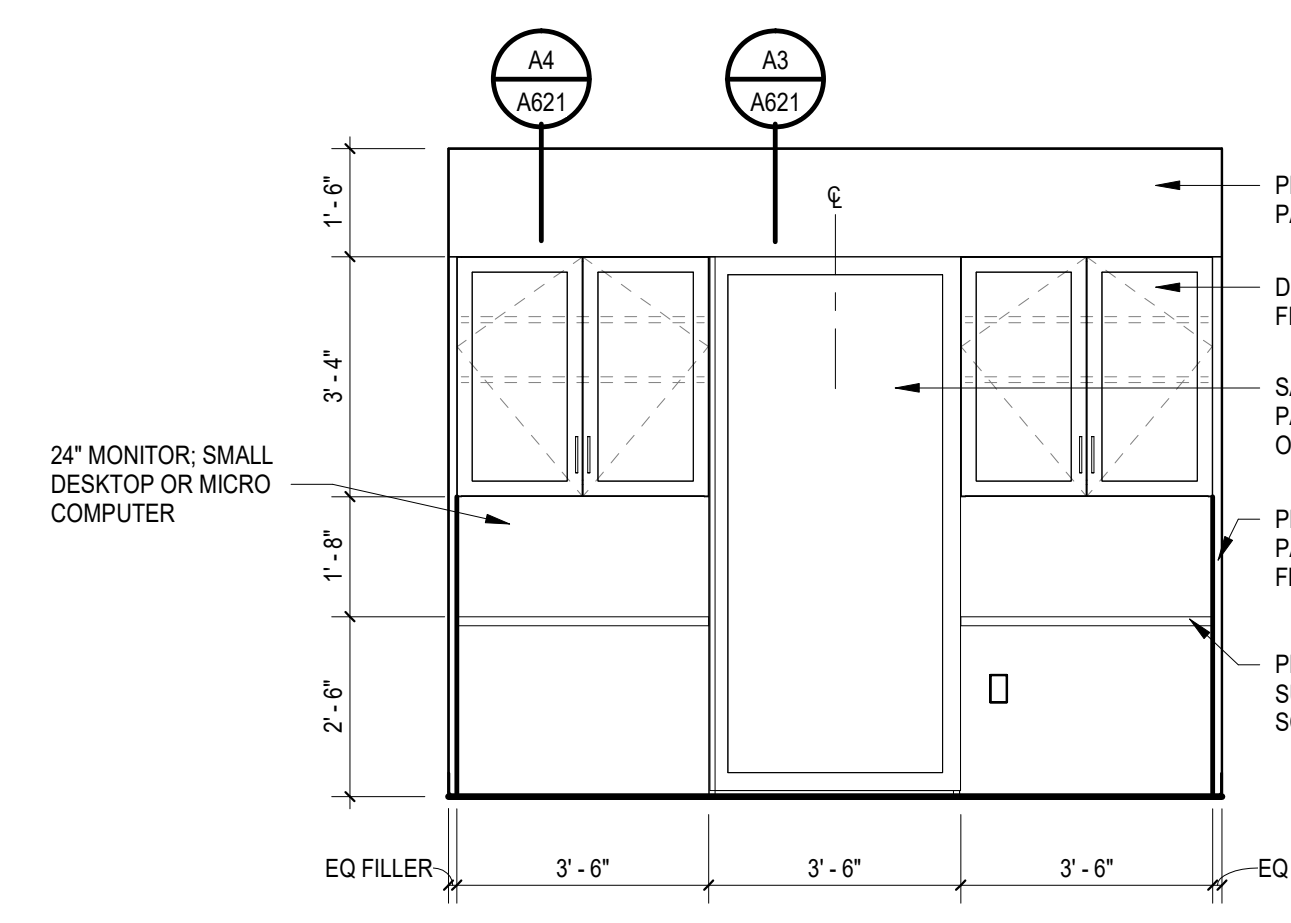
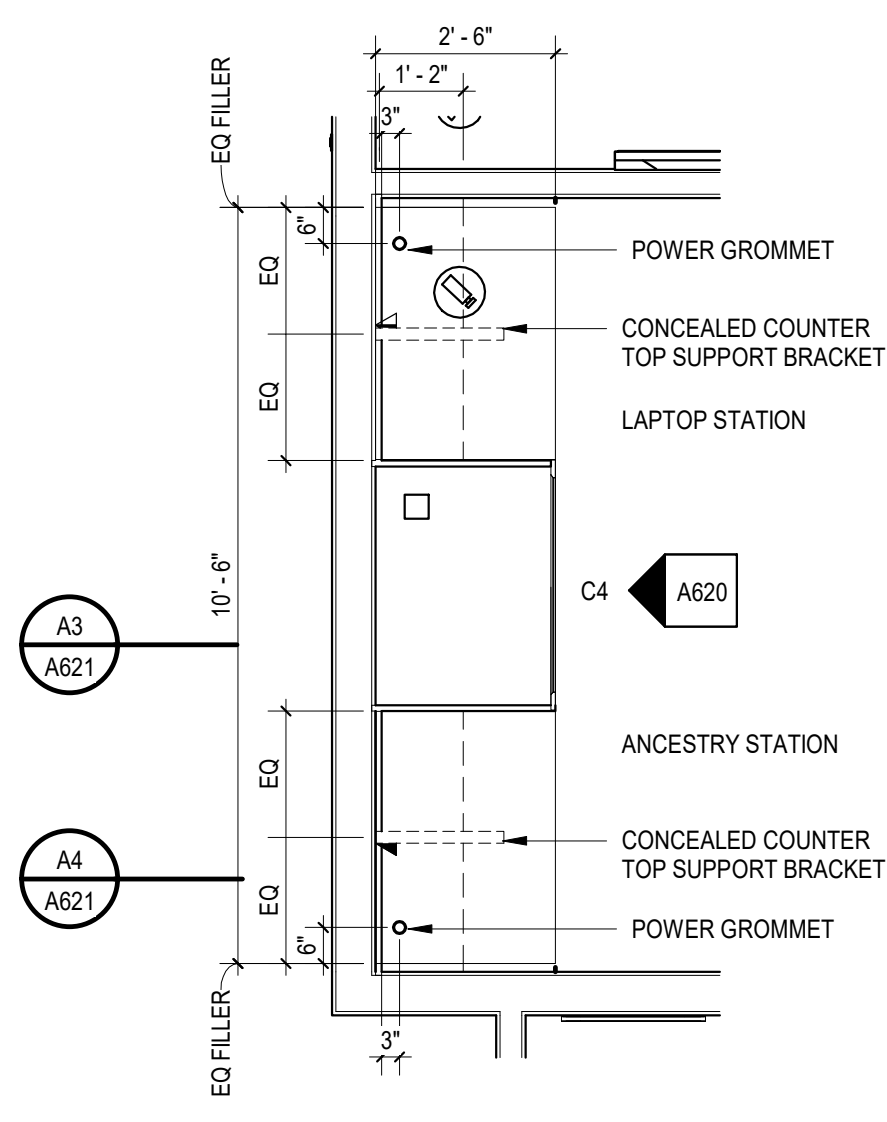
A2 PROGRAM 120 SOUTH ELEVATION
A511 1/4" = 1'-0"

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D3 ENLARGED PLAN - MILLWORK - MEETING ROOM
 A620 3/8" = 1'-0"

D2 ENLARGED PLAN - MILLWORK - PROGRAM ROOM
 A620 3/8" = 1'-0"

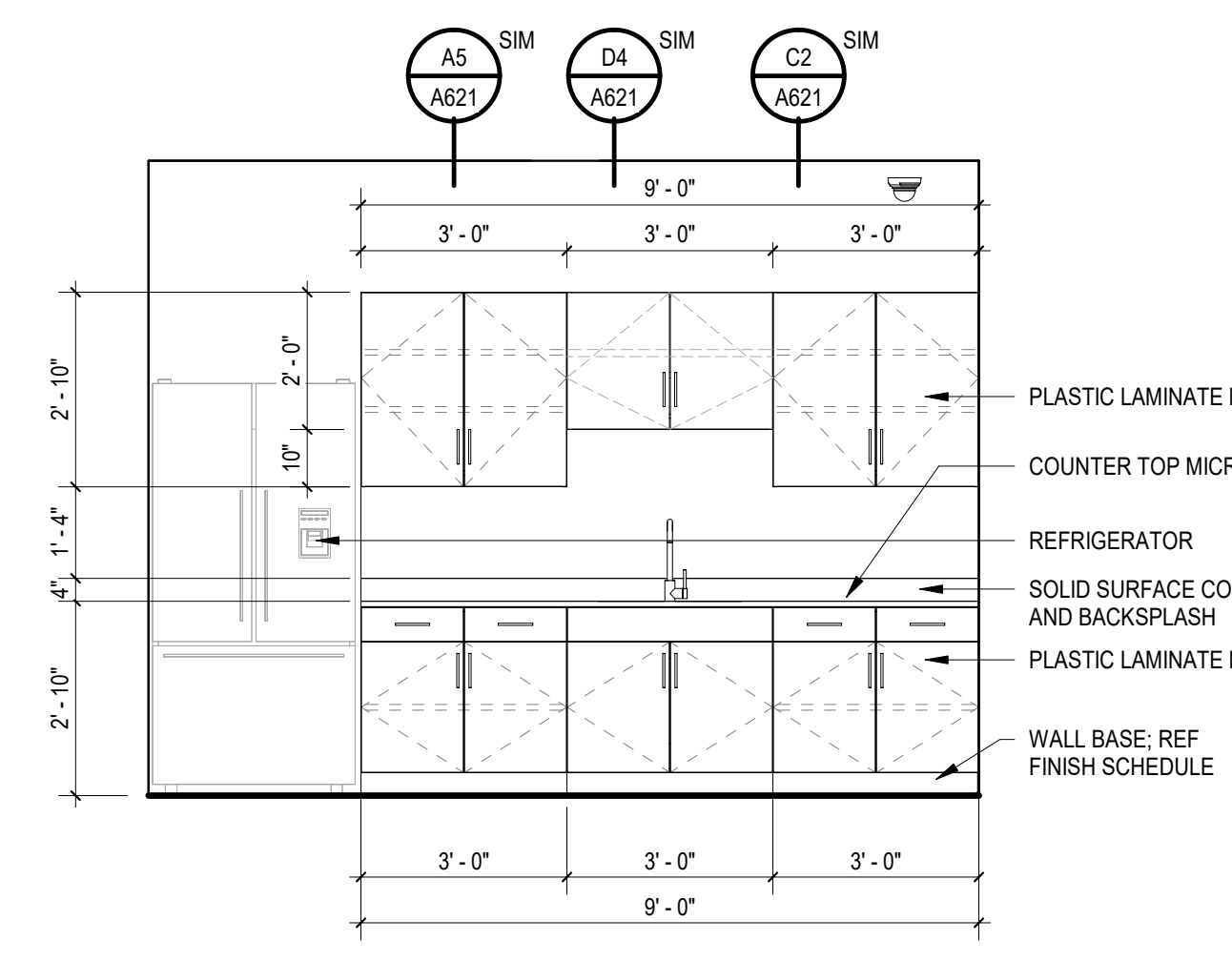
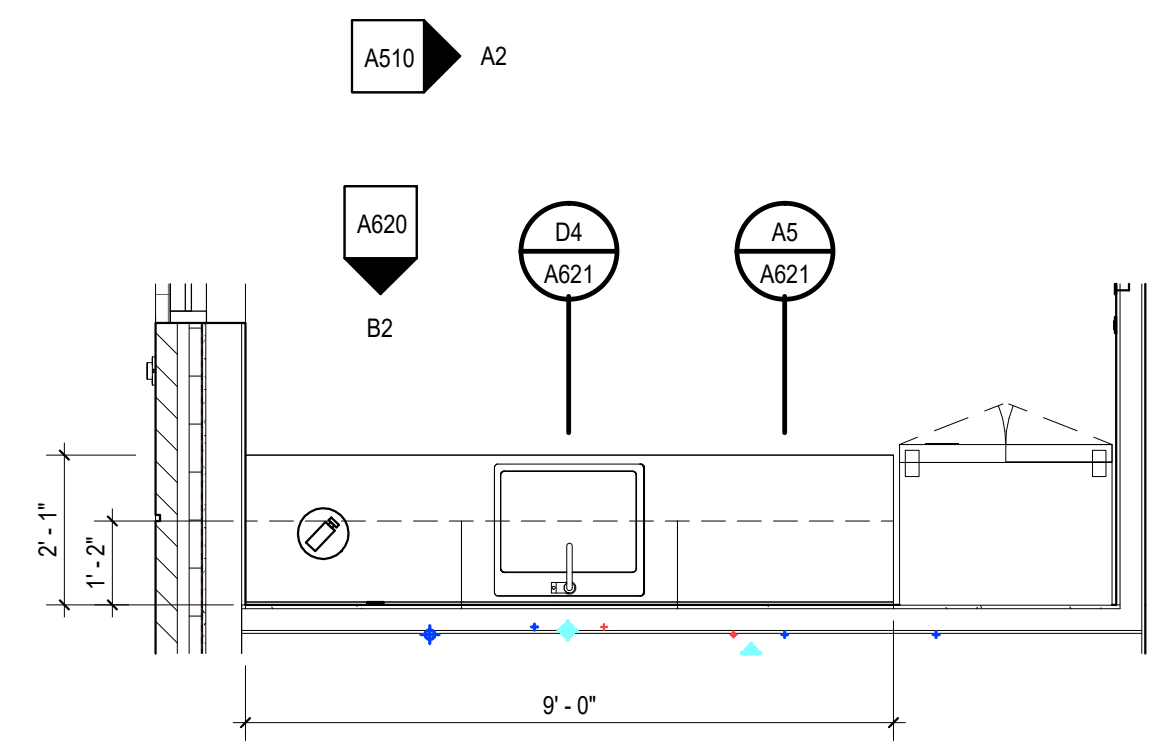
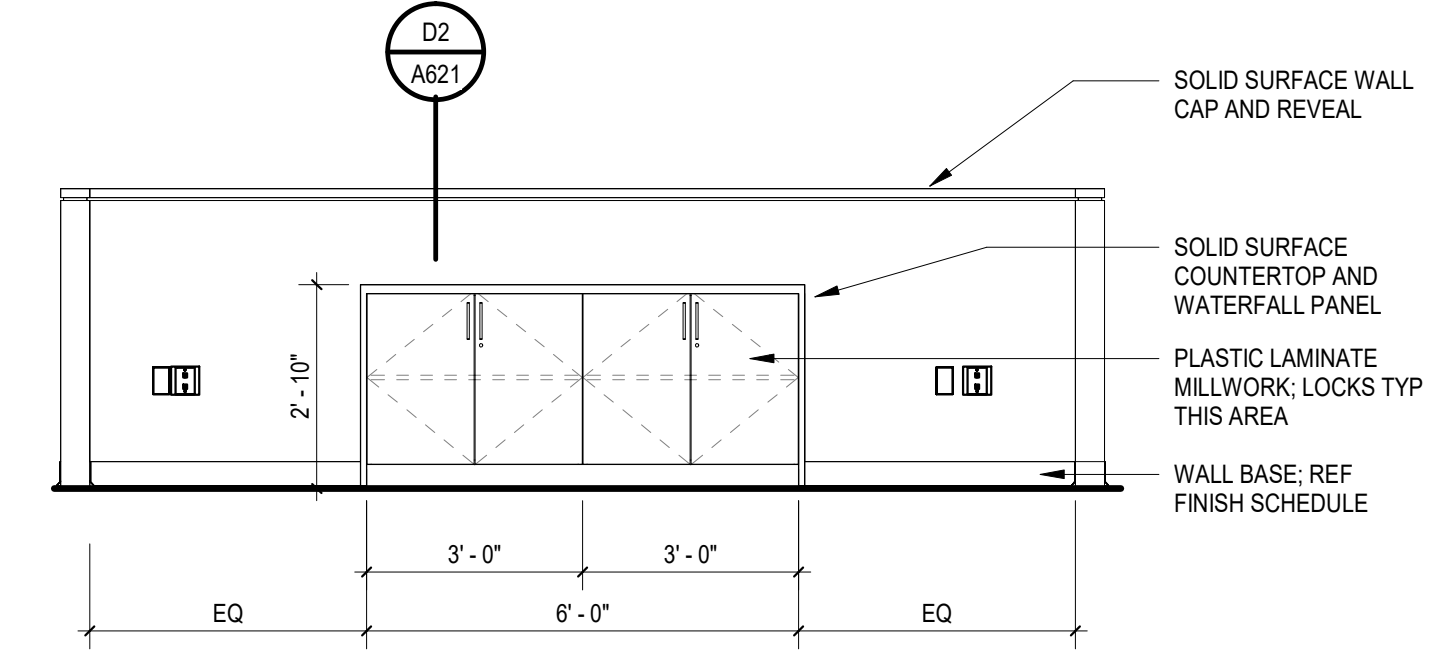
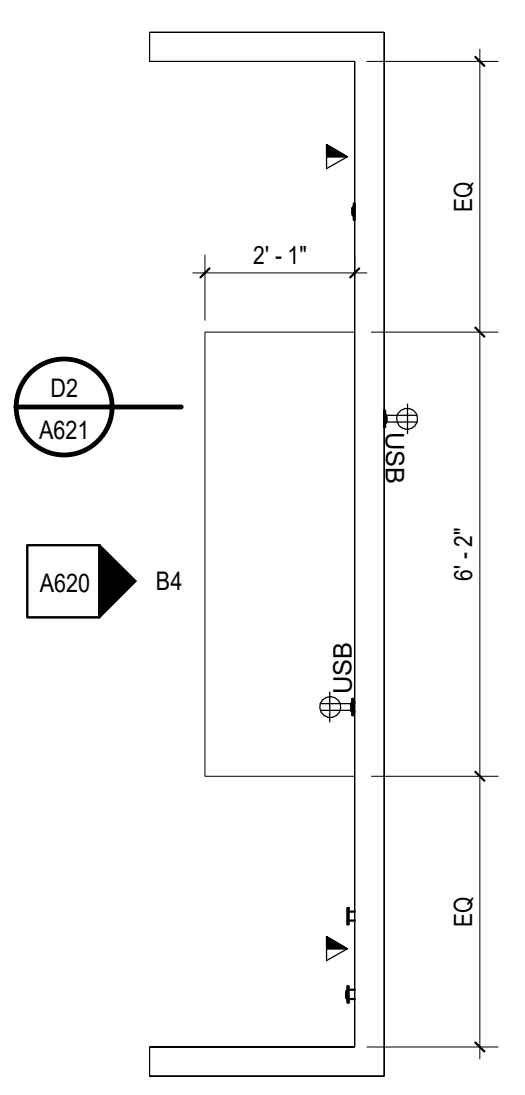


C5 ENLARGED PLAN - MILLWORK - HERITAGE
 A620 3/8" = 1'-0"

C4 ELEVATION - MILLWORK - HERITAGE
 A620 3/8" = 1'-0"

C3 ELEVATION - MILLWORK - MEETING ROOM
 A620 3/8" = 1'-0"

C2 ELEVATION - MILLWORK - PROGRAM ROOM
 A620 3/8" = 1'-0"

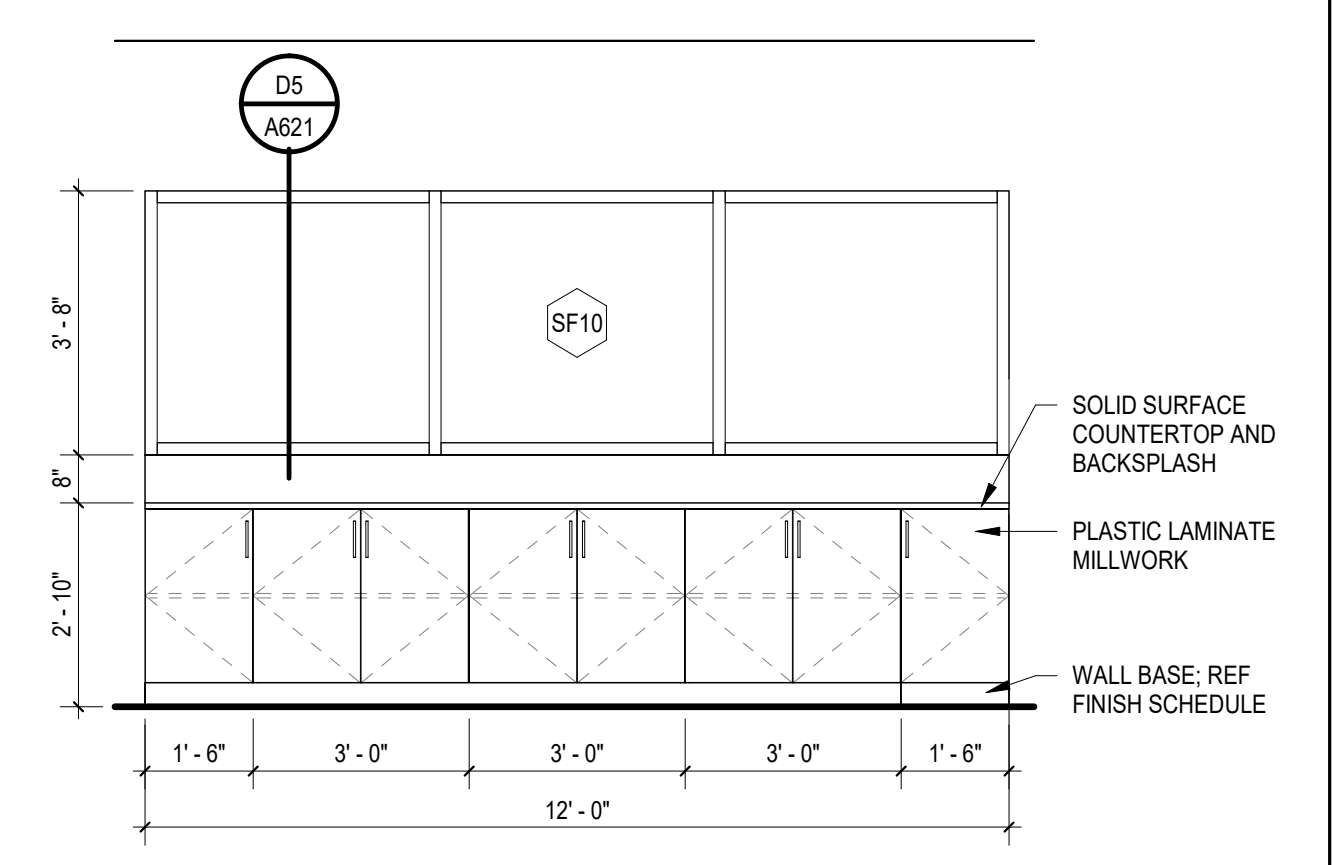
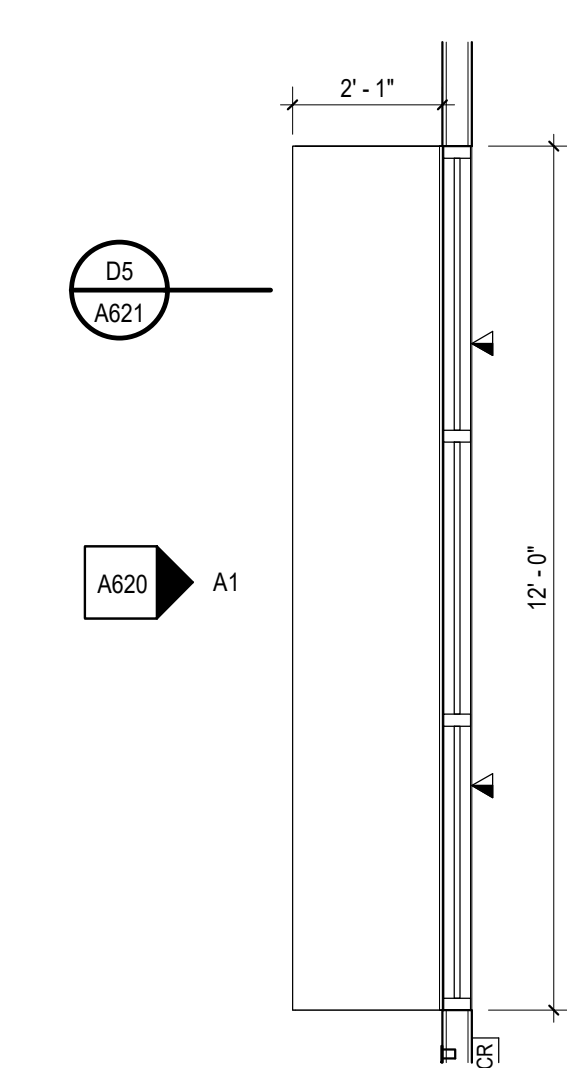
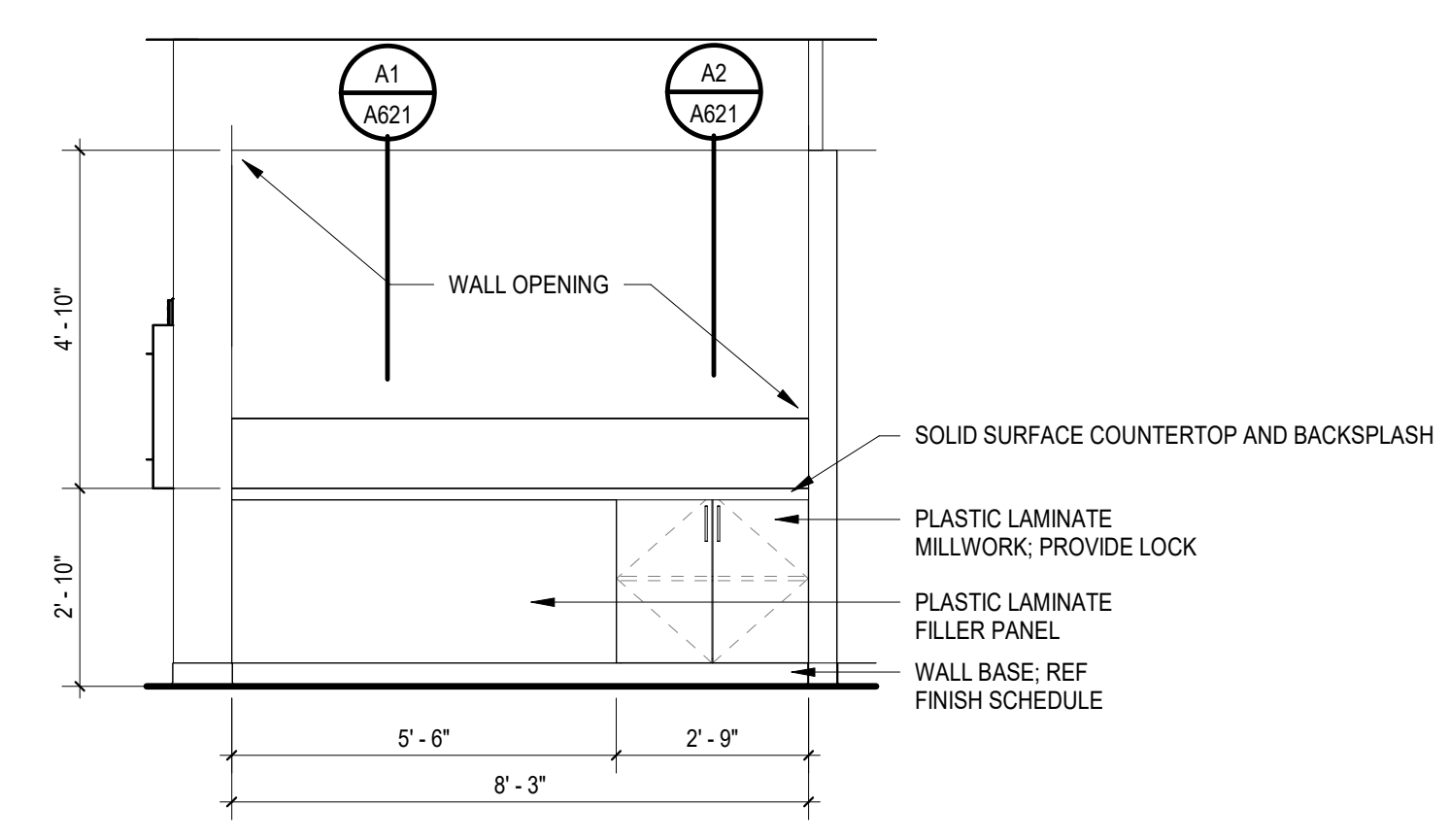
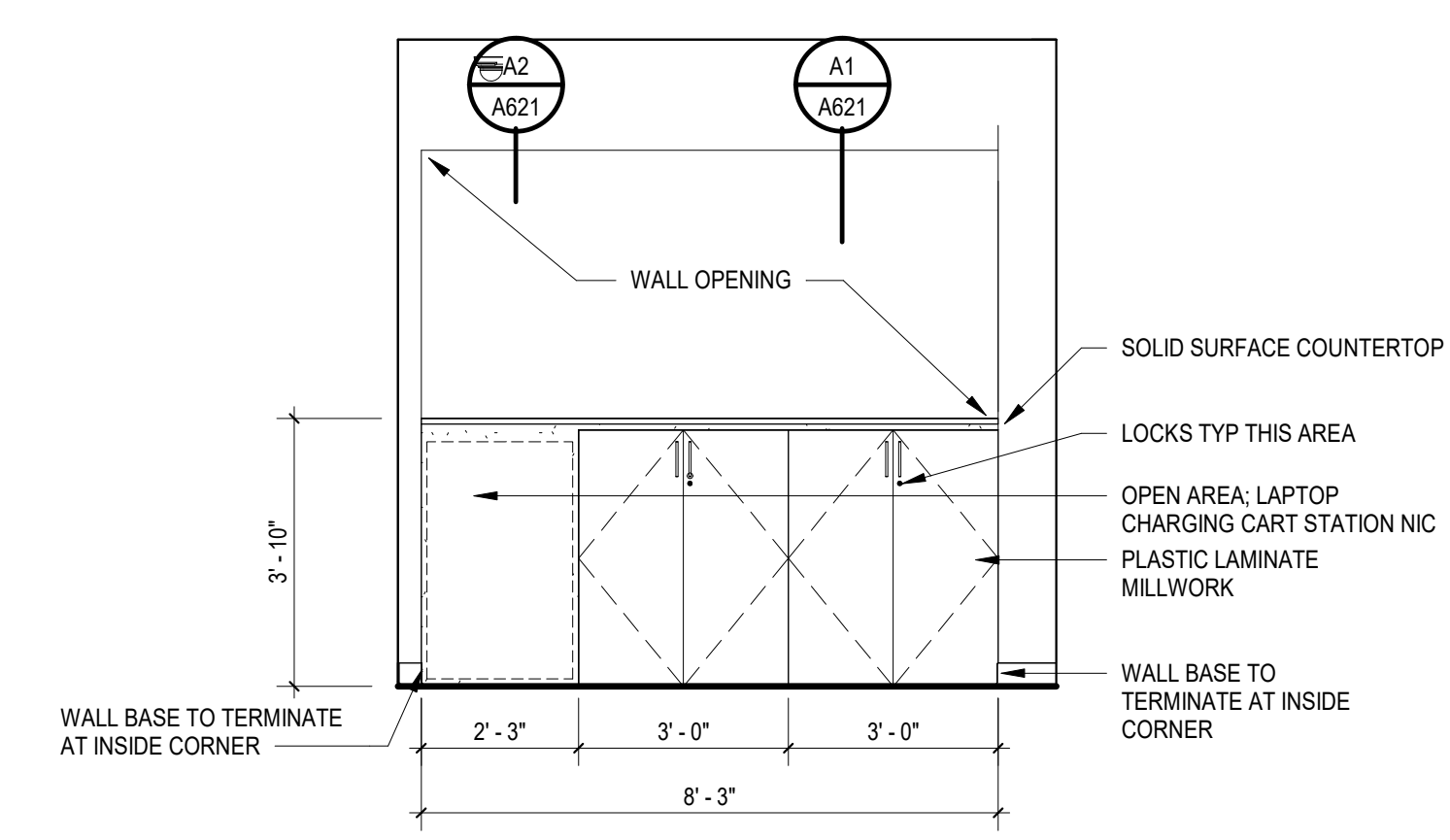
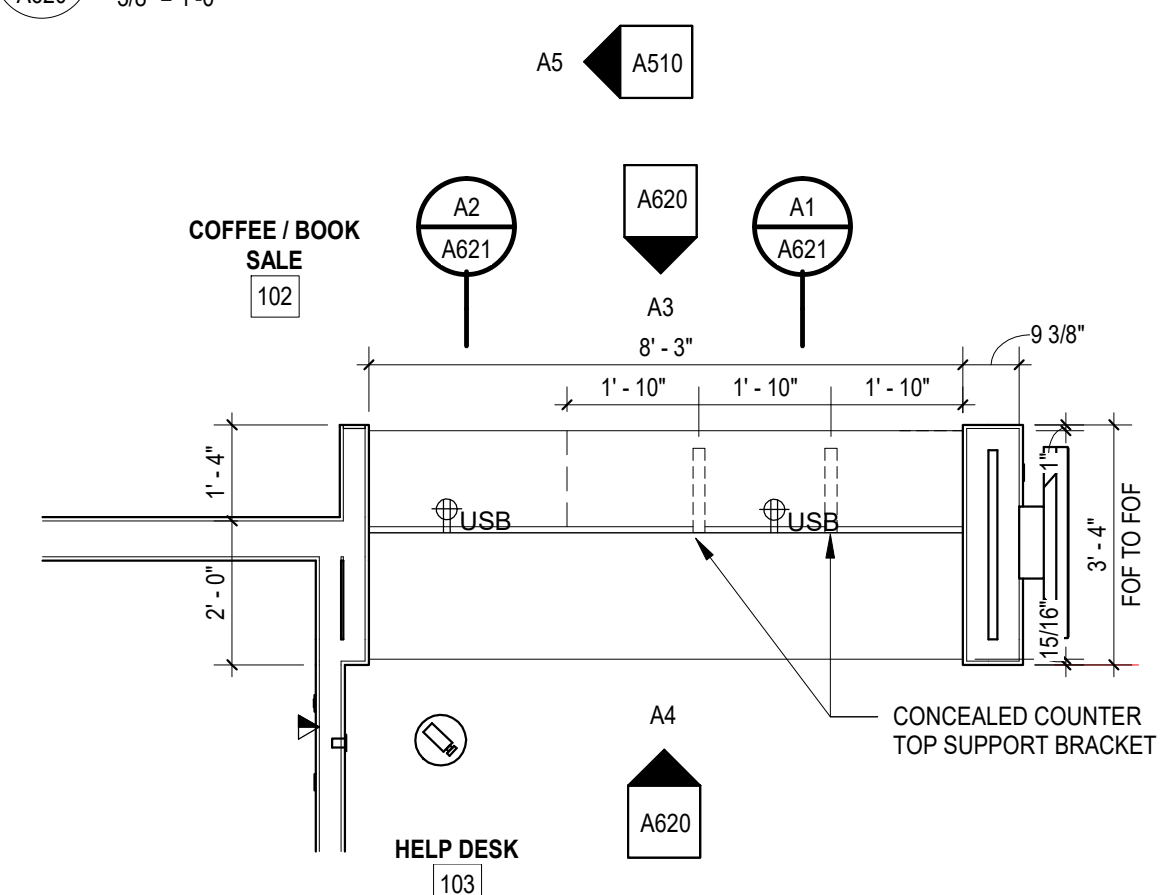


B5 ENLARGED PLAN - MILLWORK - SELF SERVICE
 A620 3/8" = 1'-0"

B4 ELEVATION - MILLWORK - SELF SERVICE
 A620 3/8" = 1'-0"

B3 ENLARGED PLAN - MILLWORK - LOUNGE
 A620 3/8" = 1'-0"

B2 ELEVATION - MILLWORK - LOUNGE
 A620 3/8" = 1'-0"



A5 ENLARGED PLAN - MILLWORK - BOOK SALE
 A620 3/8" = 1'-0"

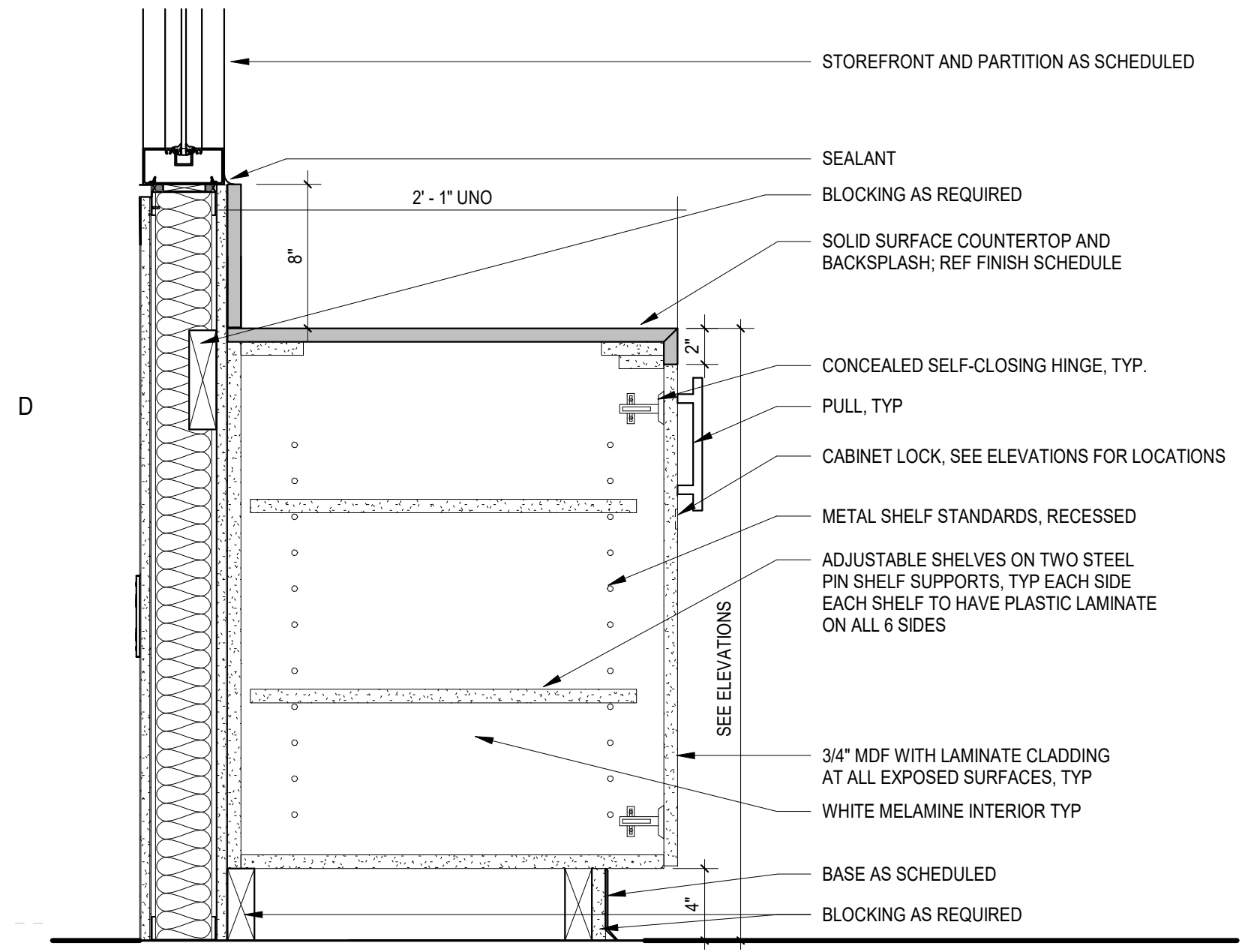
A4 ELEVATION - MILLWORK - HELP DESK
 A620 3/8" = 1'-0"

A3 ELEVATION - MILLWORK - BOOK SALE
 A620 3/8" = 1'-0"

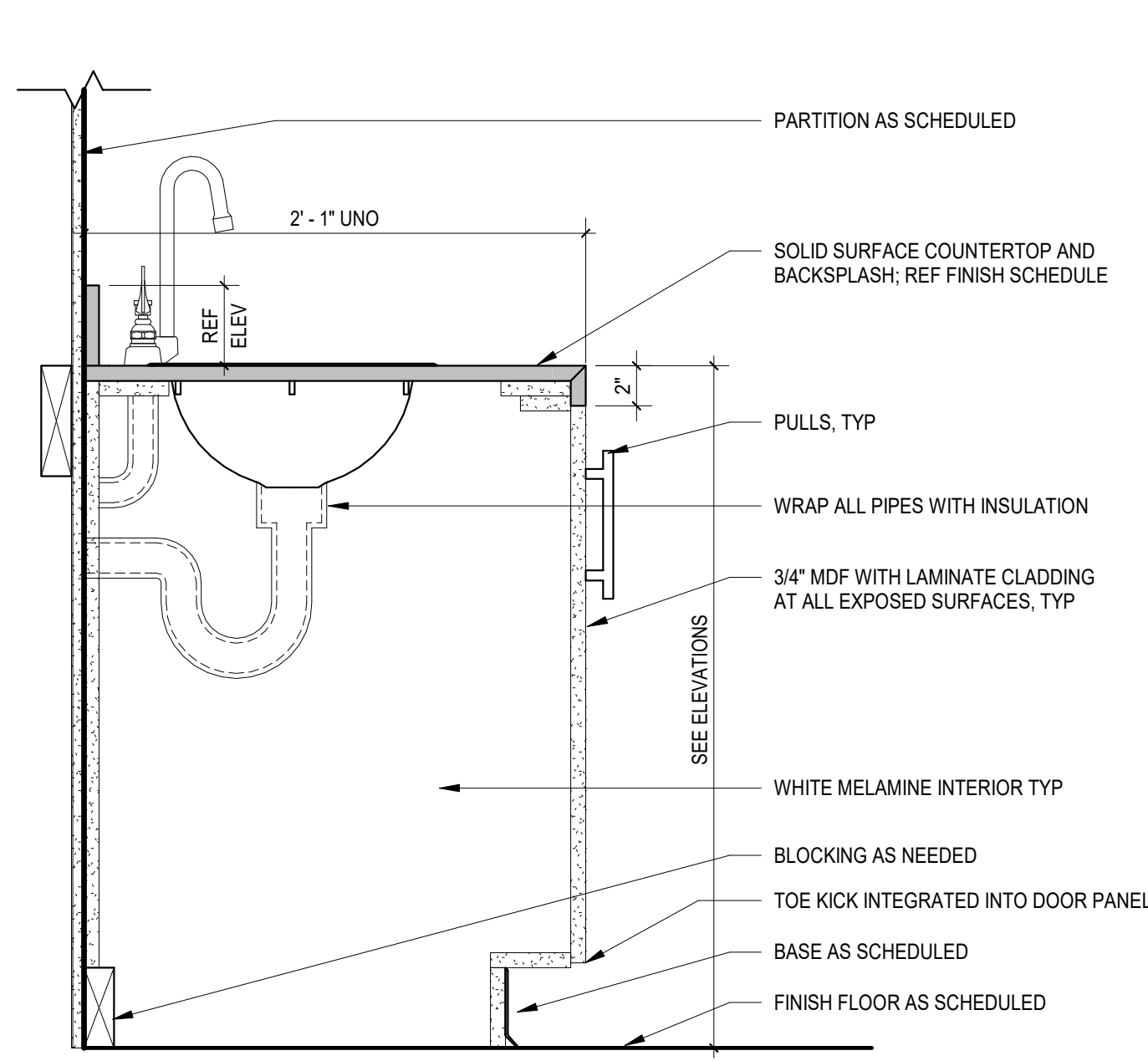
A2 ENLARGED PLAN - MILLWORK - WORKROOM
 A620 3/8" = 1'-0"

A1 ELEVATION - MILLWORK - WORKROOM
 A620 3/8" = 1'-0"

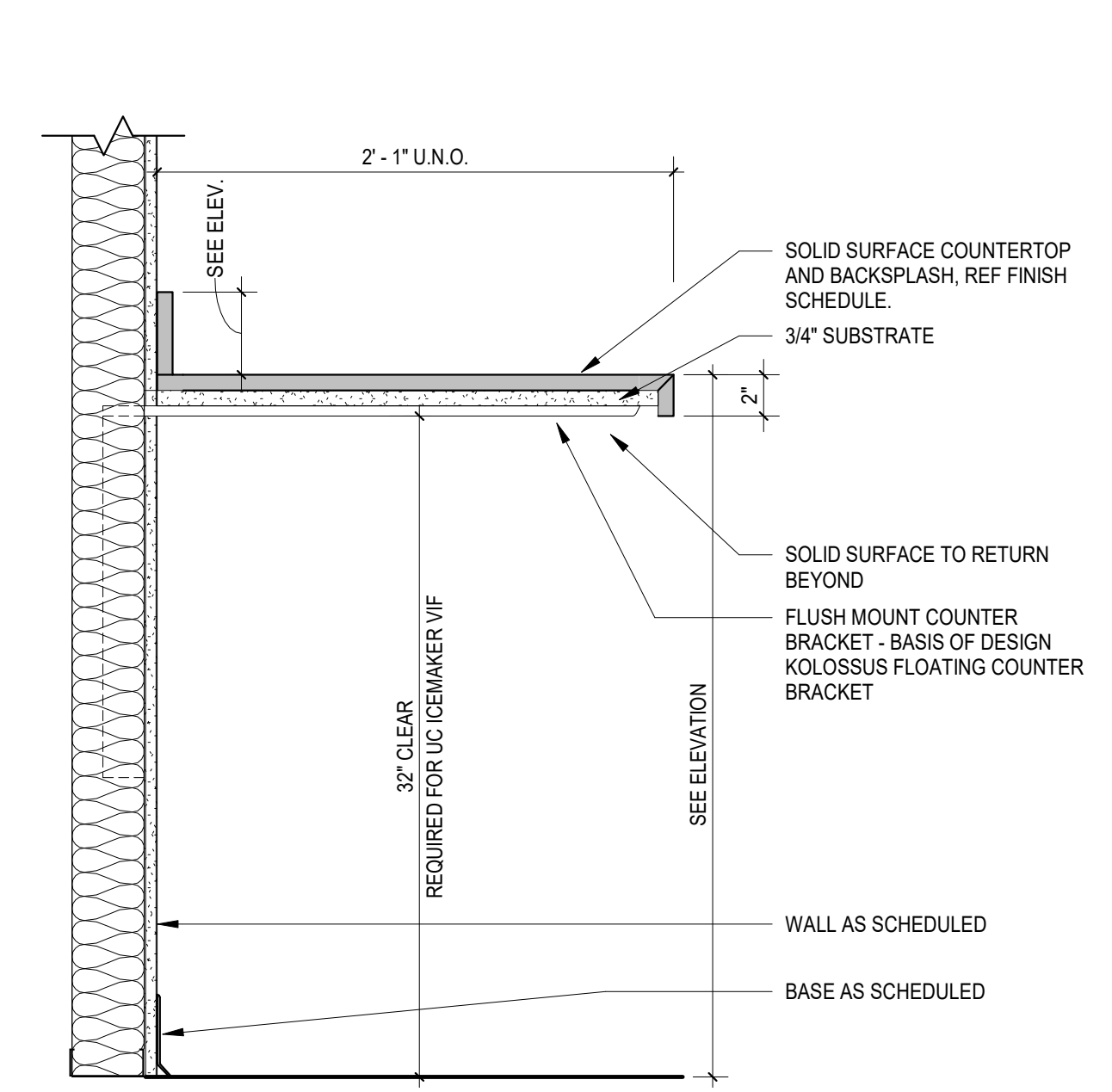
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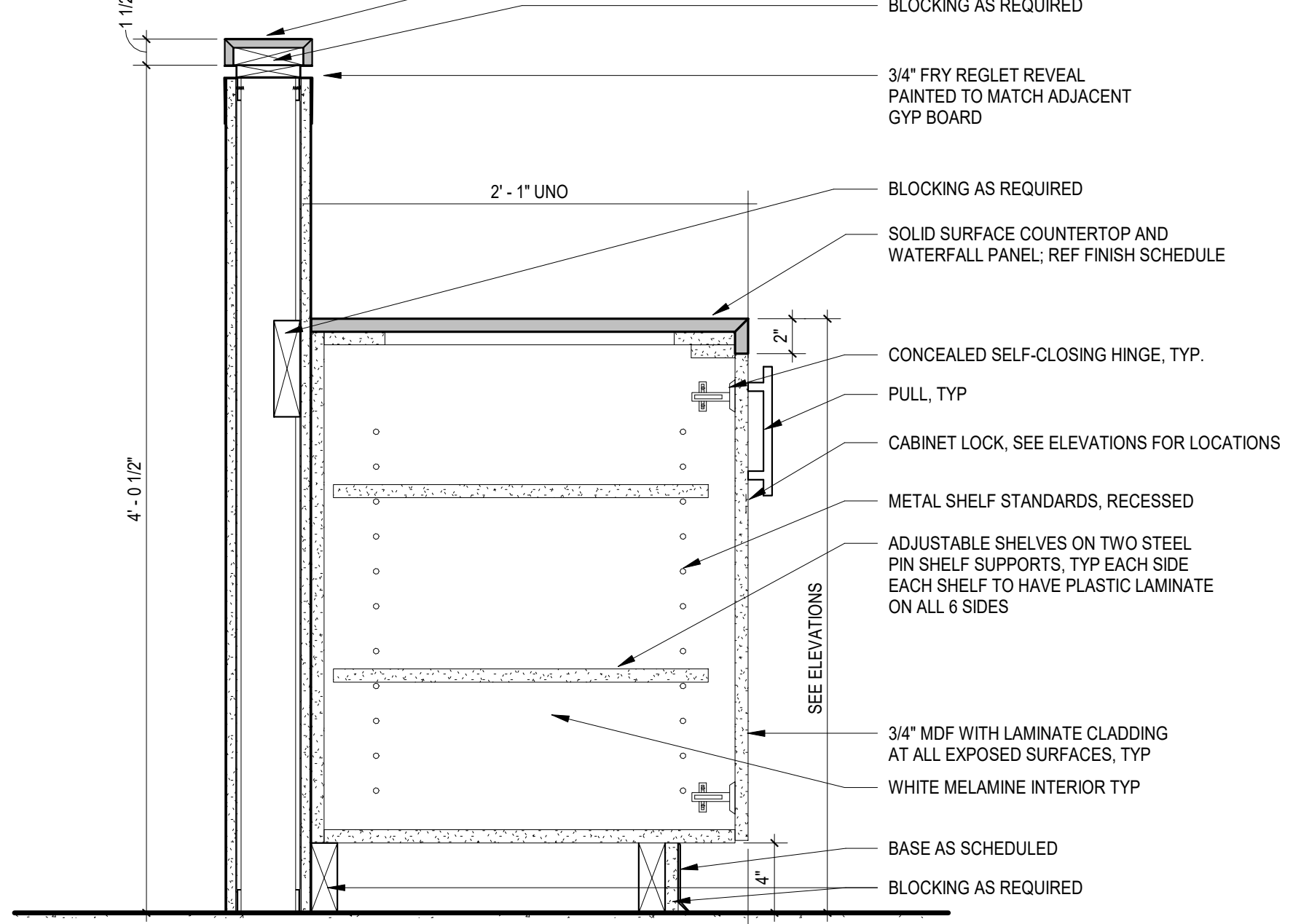
D5 TYPICAL BASE CABINET AT STOREFRONT SILL
 1 1/2" = 1'-0"



D4 TYPICAL BASE CABINET WITH SINK
 1 1/2" = 1'-0"

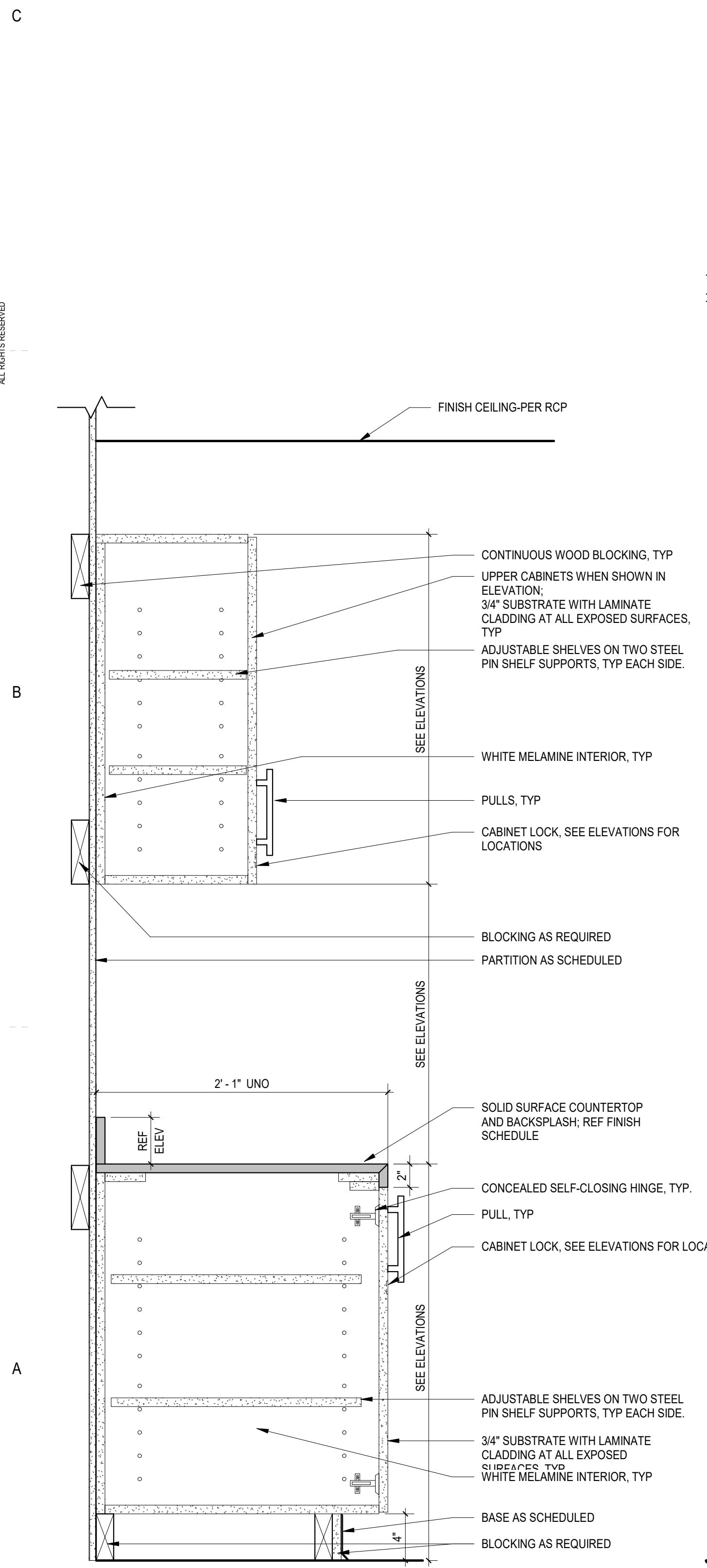


D3 COUNTER SUPPORT AT MEETING ROOM
 1 1/2" = 1'-0"

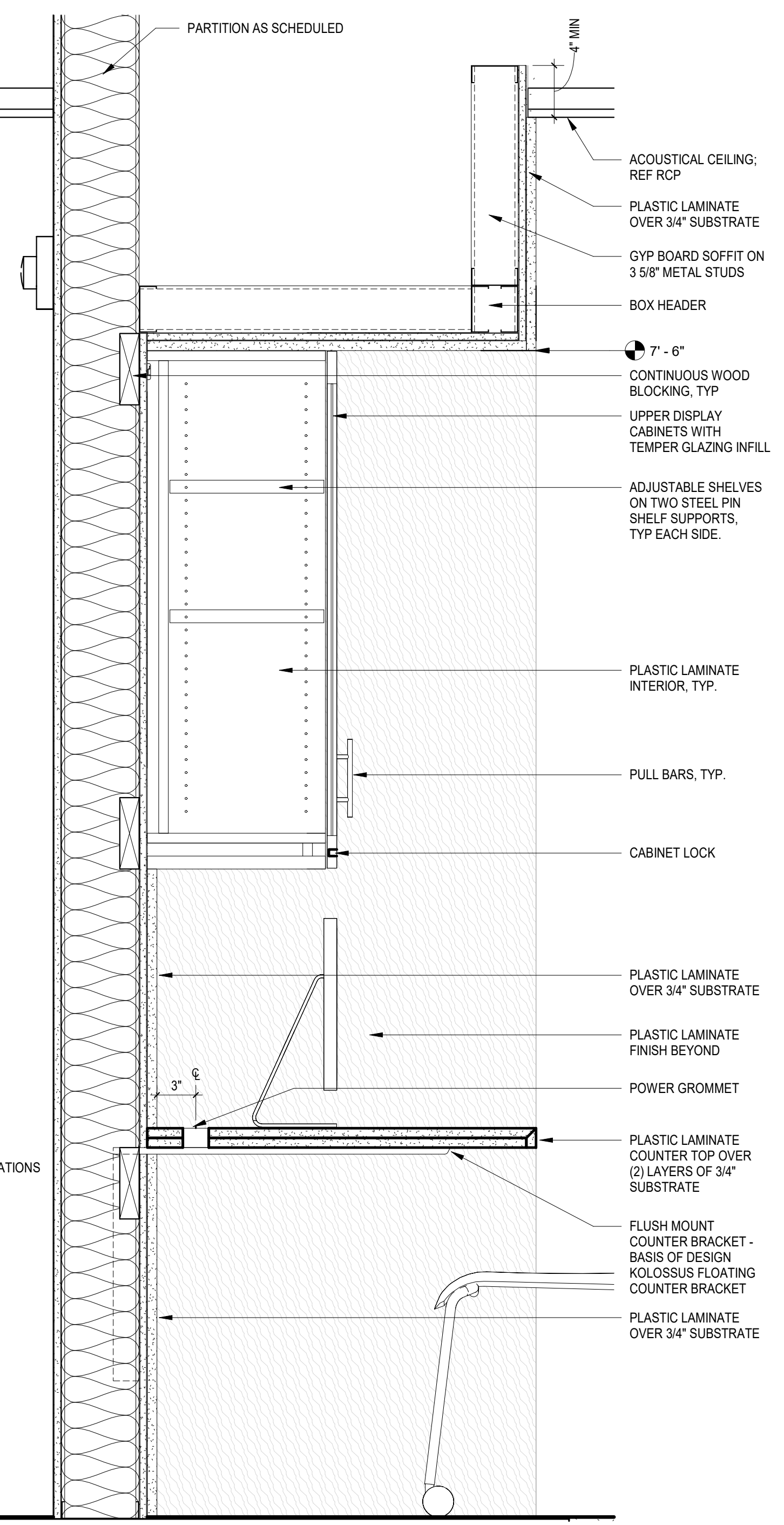


D2 MILLWORK SECTION - SELF SERVICE
 1 1/2" = 1'-0"

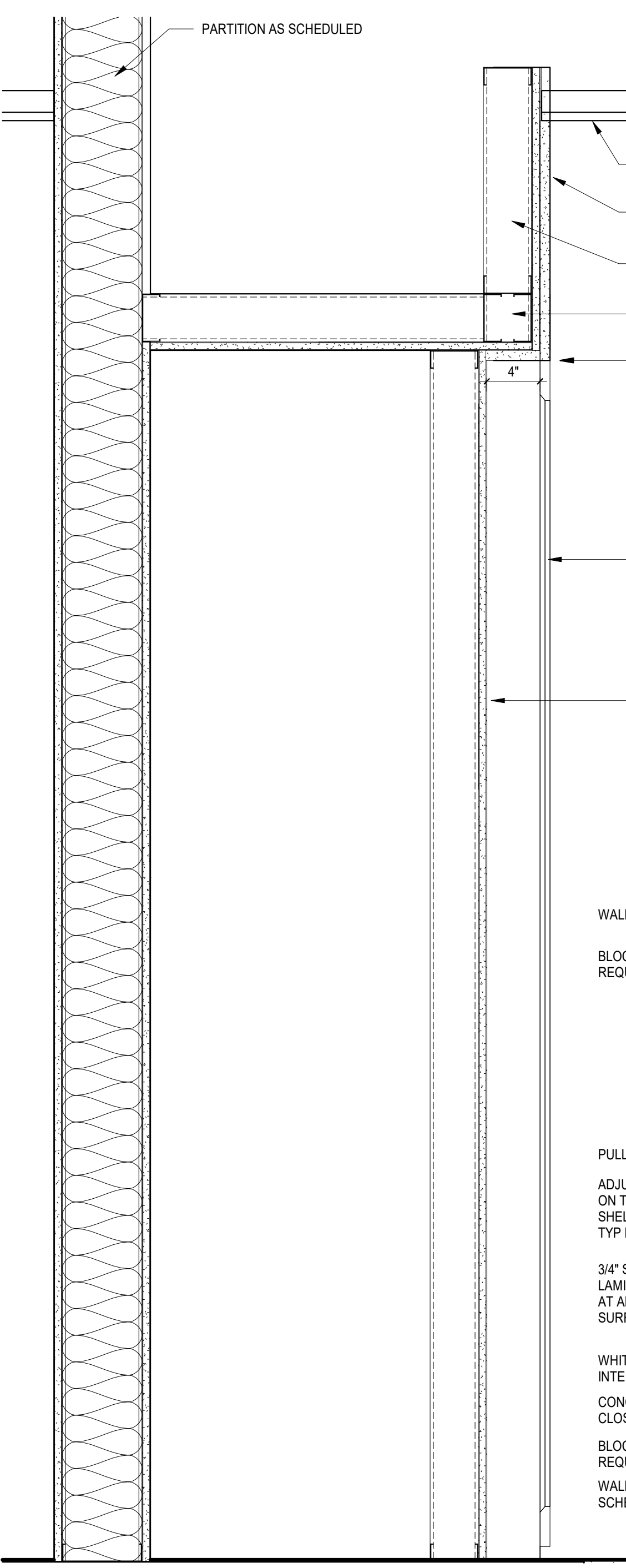
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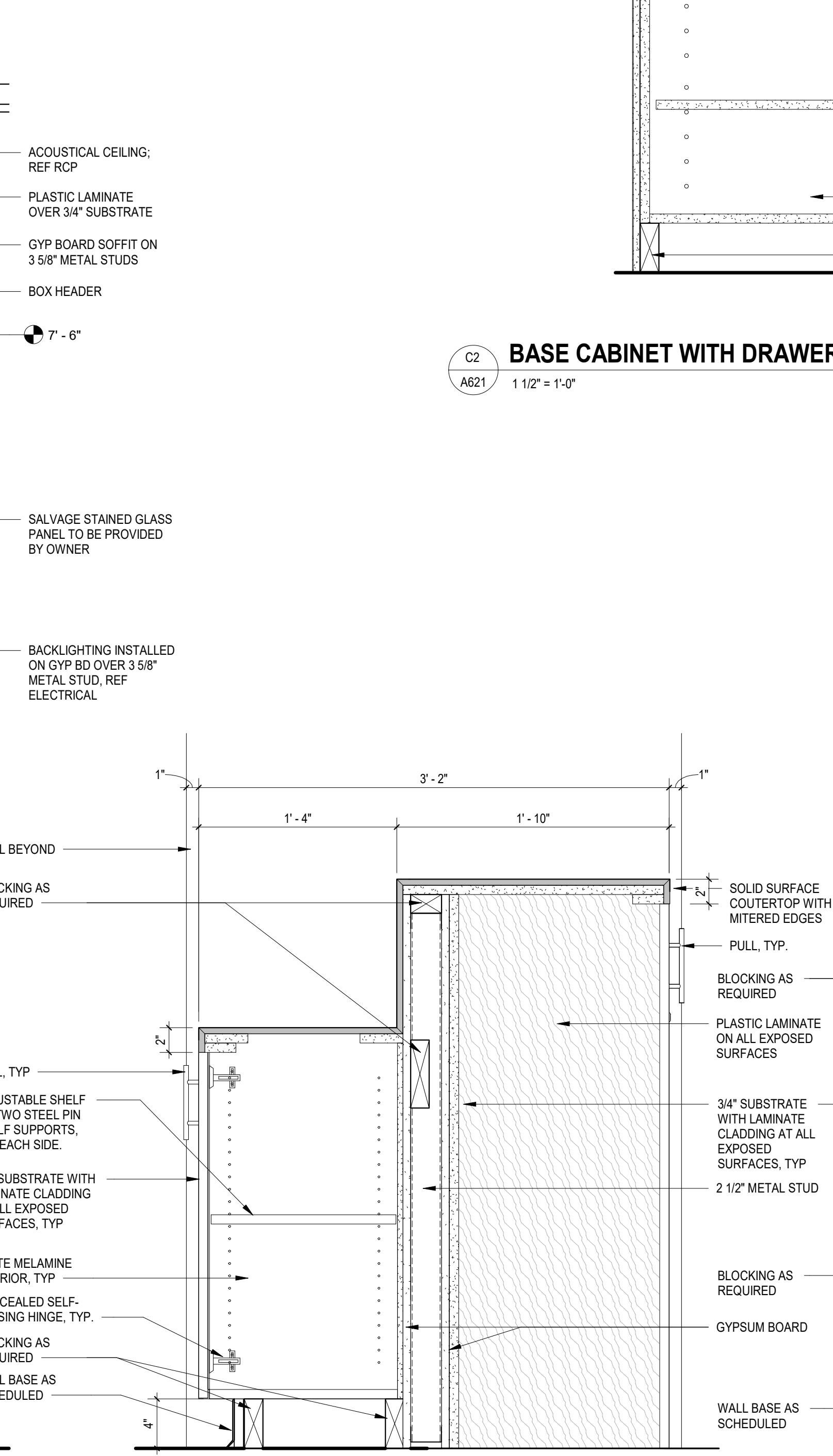
A5 TYPICAL BASE AND UPPER CABINET
 1 1/2" = 1'-0"



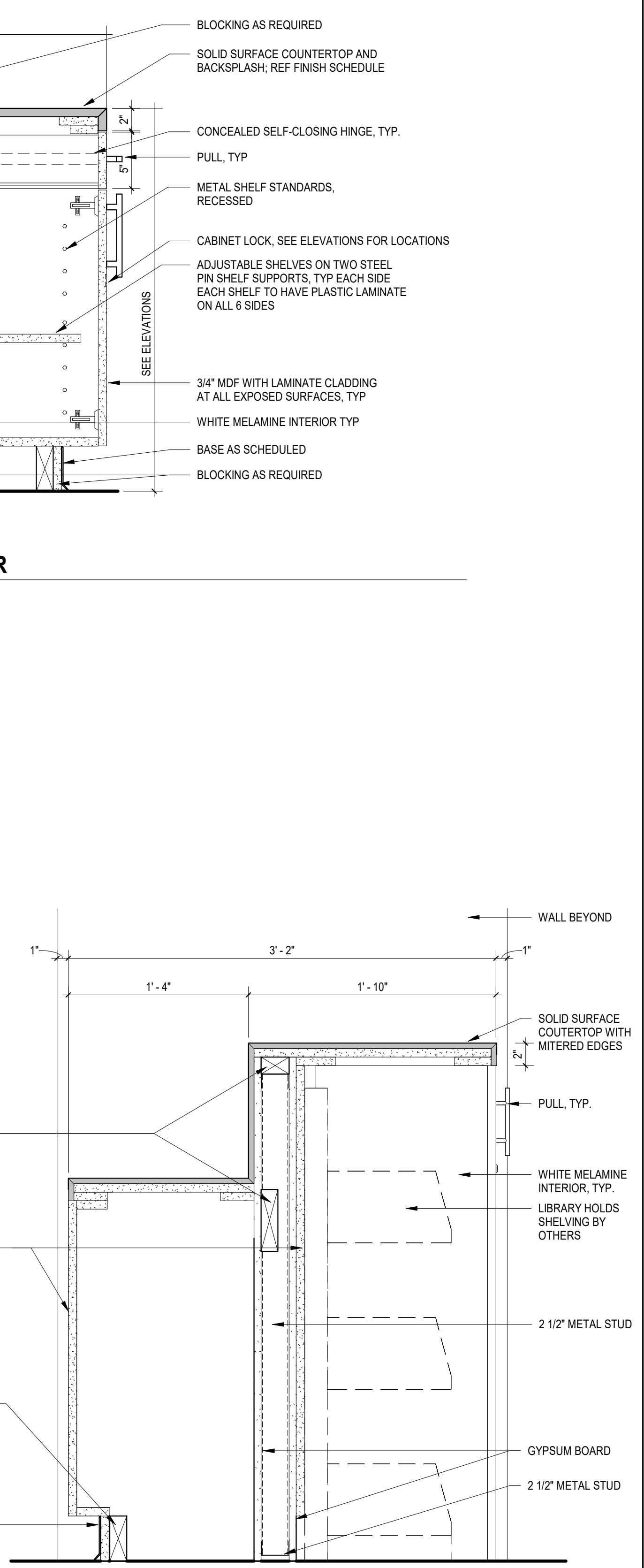
A4 MILLWORK SECTION - HERITAGE RM COUNTER
 1 1/2" = 1'-0"



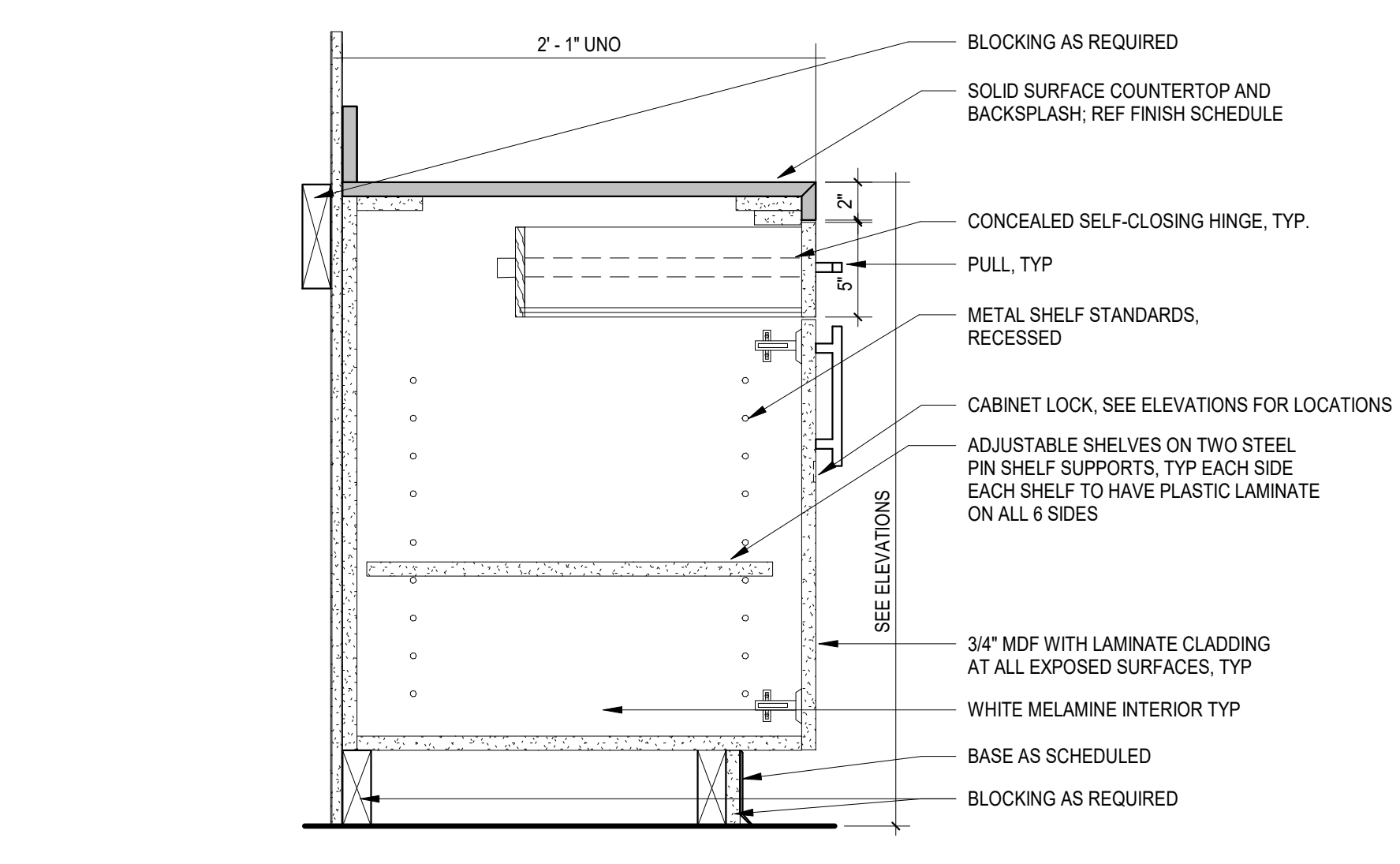
A3 MILLWORK SECTION - HERITAGE RM STAINED GLASS
 1 1/2" = 1'-0"



A2 MILLWORK SECTION - HELP DESK 1
 1 1/2" = 1'-0"



A1 MILLWORK SECTION - HELP DESK 2
 1 1/2" = 1'-0"



C2 BASE CABINET WITH DRAWER
 1 1/2" = 1'-0"

FLOOR	DOOR NO.	ROOM NO.	DOOR					DOOR		FRAME		DETAILS		REMARKS
			WIDTH	HEIGHT	THK	TYPE	RATING	MATERIAL	HARDWARE TYPE	TYPE	MATERIAL	HEAD	JAMB	
LEVEL 01	101A		6'-0"	7'-0"	0'-1 3/4"	F2	NA	ALUM / GLASS	REF SPECS	CW3	ALUM	PER MANUF	PER MANUF	
LEVEL 01	101B	101	6'-0"	7'-0"	0'-1 3/4"	E2	NA	ALUM / GLASS	REF SPECS	SF13	ALUM	H4	J4	
LEVEL 01	103	103	3'-0"	7'-0"	0'-1 3/4"	E1	NA	ALUM / GLASS	REF SPECS	SF14	ALUM	H3	J3	
LEVEL 01	104A	104A	3'-0"	7'-0"	0'-1 3/4"	E1	NA	ALUM / GLASS	REF SPECS	SF14	ALUM	H3	J3	
LEVEL 01	108	108	3'-0"	7'-0"	0'-1 3/4"	E1	NA	ALUM / GLASS	REF SPECS	SF14	ALUM	H3	J3	
LEVEL 01	109	107	3'-0"	7'-0"	0'-1 3/4"	A	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	110		7'-0"	7'-10"	0'-1 3/4"	G2	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	111	101	3'-0"	7'-0"	0'-1 3/4"	A	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	112	101	3'-0"	7'-0"	0'-1 3/4"	A	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	113		3'-0"	7'-10"	0'-1 3/4"	G1	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	114A	110	3'-0"	7'-0"	0'-1 3/4"	A	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	114B	114B	3'-0"	7'-0"	0'-1 3/4"	A	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	115	115	3'-0"	7'-0"	0'-1 3/4"	A	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	116A	115	3'-0"	7'-0"	0'-1 3/4"	A	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	116B	116	3'-0"	7'-0"	0'-1 3/4"	A	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	117	118	3'-0"	7'-0"	0'-1 3/4"	A	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	118A	118	6'-0"	7'-2"	0'-1 3/4"	F2	NA	ALUM / GLASS	REF SPECS	SF6	ALUM	B2/A800	A2/A800	
LEVEL 01	118B	118	6'-0"	7'-0"	0'-1 3/4"	E2	NA	ALUM / GLASS	REF SPECS	SF15	ALUM	H4	J4	
LEVEL 01	119A	119	3'-0"	7'-2"	0'-1 3/4"	F1	NA	ALUM / GLASS	REF SPECS	SF7	ALUM	B2/A800	A2/A800	
LEVEL 01	119B	119	3'-0"	7'-0"	0'-1 3/4"	E1	NA	ALUM / GLASS	REF SPECS	SF14	ALUM	H3	J3	
LEVEL 01	119C	101	9'-9 3/4"	9'-3"		H	NA	MTL	REF SPECS	--	--	A1/A211	A3/A300	OVERHEAD SECURITY GRILLE
LEVEL 01	120A	120A	3'-0"	7'-0"	0'-1 3/4"	F1	NA	ALUM / GLASS	REF SPECS	SF5	ALUM	PER MANUF	A2/A800	
LEVEL 01	120B	120	3'-0"	7'-0"	0'-1 3/4"	F1	NA	ALUM / GLASS	REF SPECS	SF3	ALUM	PER MANUF	PER MANUF	
LEVEL 01	120C	120	3'-0"	7'-0"	0'-1 3/4"	E1	NA	ALUM / GLASS	REF SPECS	SF11	ALUM	H4	J4	
LEVEL 01	121A	119	3'-0"	7'-0"	0'-1 3/4"	A	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	121B	120	3'-0"	7'-0"	0'-1 3/4"	A	NA	HM	REF SPECS	A	HM	H1	J1	
LEVEL 01	123	123	3'-0"	7'-0"	0'-1 3/4"	F1	NA	ALUM / GLASS	REF SPECS	SF3	ALUM	PER MANUF	PER MANUF	
LEVEL 01	124	124	3'-0"	7'-0"	0'-1 3/4"	F1	NA	ALUM / GLASS	REF SPECS	SF3	ALUM	PER MANUF	PER MANUF	

GENERAL DOOR AND FRAME NOTES

- FIELD VERIFY ALL ROUGH OPENINGS PRIOR TO MANUFACTURE OF FRAMES, DOORS, STOREFRONTS, WINDOWS, ETC.
- PROVIDE DOOR SWINGS AS REPRESENTED, UNLESS NOTED OTHERWISE
- ALL DOOR NUMBERS ARE LABELED PER THEIR ROOM NUMBERS, THEN A SUFFIX 'A, B, C, ' ETC.
- ALL HINGED DOORS TO HAVE HOLLOW METAL FRAMES WITH 2" HEADS AS INDICATED IN THE SCHEDULE AND PER THE DETAILS. OTHER CRITERIA (RATINGS, ETC) AS SCHEDULED.

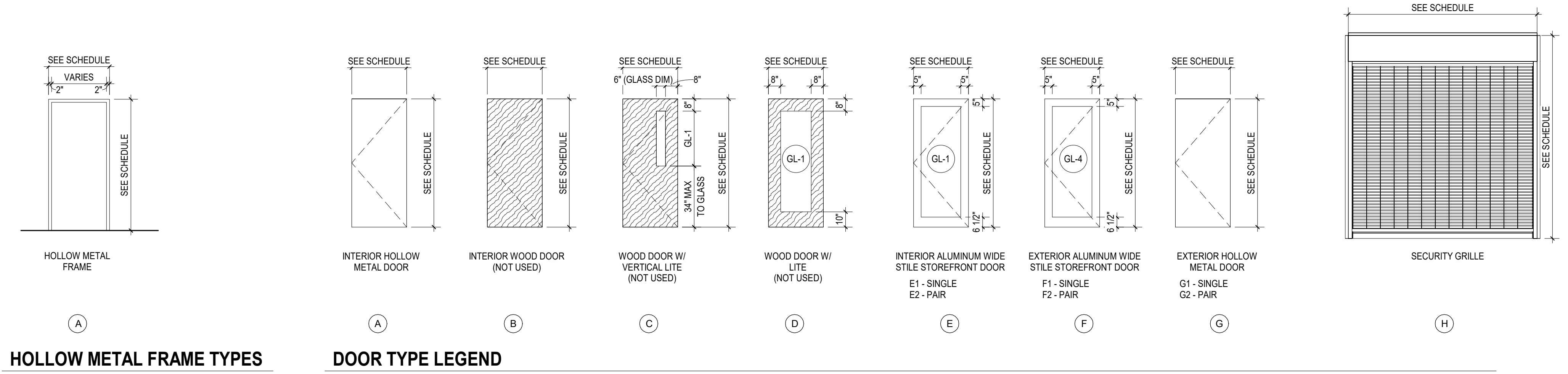
GLASS LEGEND

- GL-1 1/4" FULLY-TEMPERED MONOLITHIC FLOAT GLASS
- GL-2 1/4" CLEAR ANNEALED FLOAT GLASS
- GL-3 1" LOW-E COATED INSULATING GLASS
- GL-4 1" LOW-E COATED FULLY-TEMPERED INSULATING GLASS
- GL-5 1" SPANDREL GLASS



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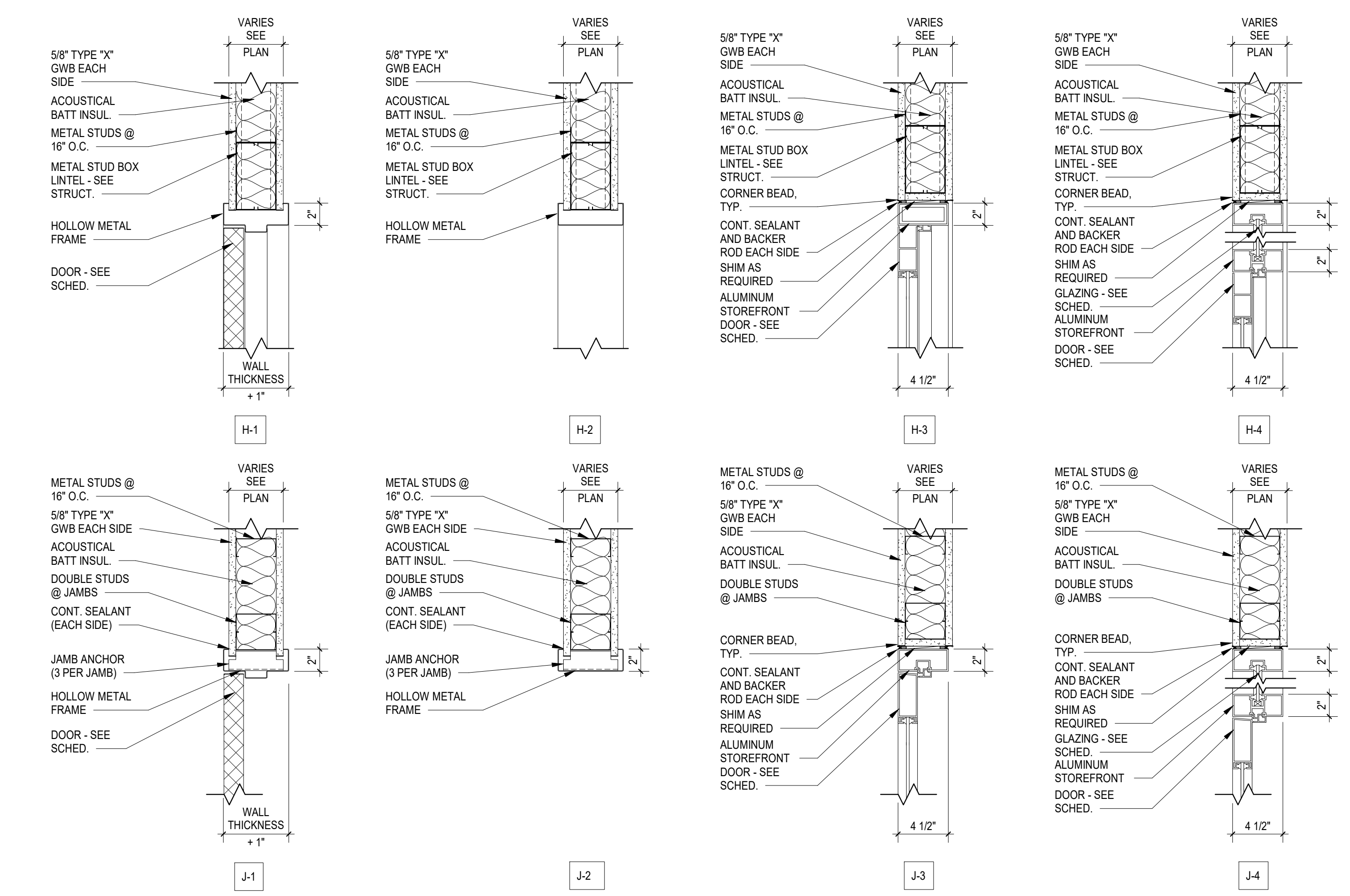
REALS



HOLLOW METAL FRAME TYPES

DOOR TYPE LEGEND

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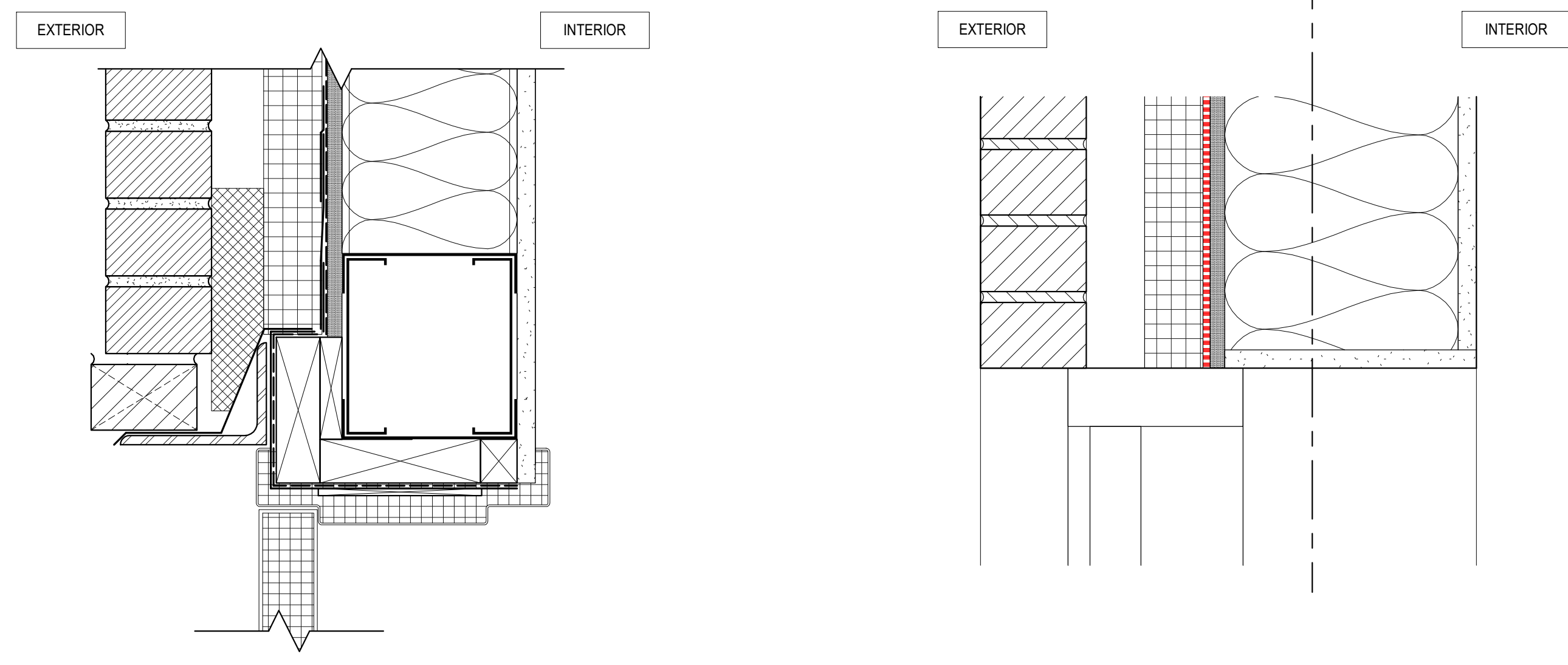


A5 DOOR HEAD AND JAMB DETAILS

A3 HM DOOR - JAMB - BRICK

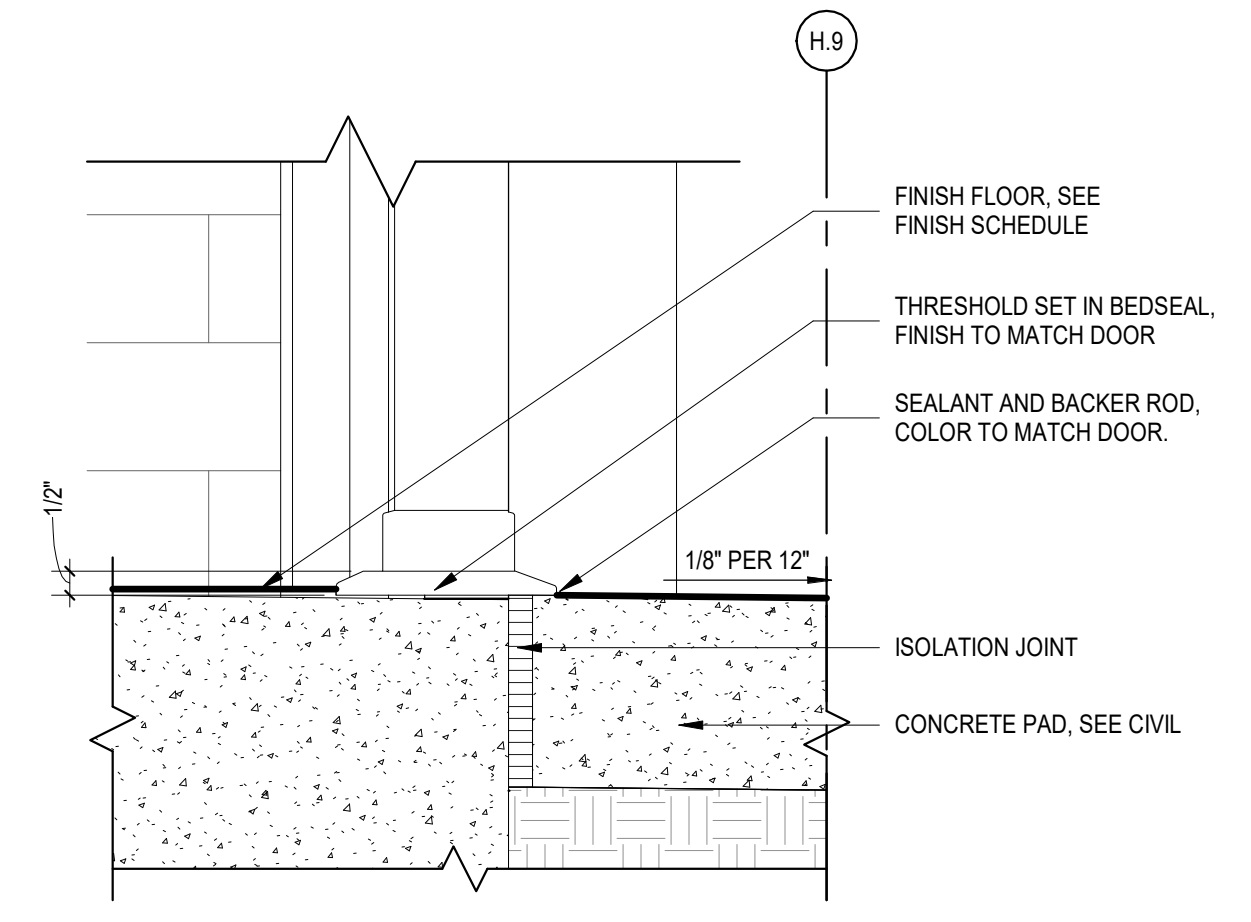
A2 ALUM DOOR - JAMB - BRICK

A1 STOREFRONT DOOR SILL



B3 HM DOOR - HEAD - BRICK

B2 ALUM DOOR - HEAD - BRICK



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PRINCIPAL IN CHARGE:
 PROJECT ARCHITECT:
 DRAWN BY:
 SHEET TITLE:
**DOOR SCHEDULE
 FRAMES & TYPES**

SHEET NO. PROJ. NO.
 025432

A800

DRM
AMG
KW

GLASS LEGEND

- GL-1 1/4" FULLY-TEMPERED MONOLITHIC FLOAT GLASS
- GL-2 1/4" CLEAR ANNEALED FLOAT GLASS
- GL-3 1" LOW-E COATED INSULATING GLASS
- GL-4 1" LOW-E COATED FULLY-TEMPERED INSULATING GLASS
- GL-5 1" SPANDREL GLASS



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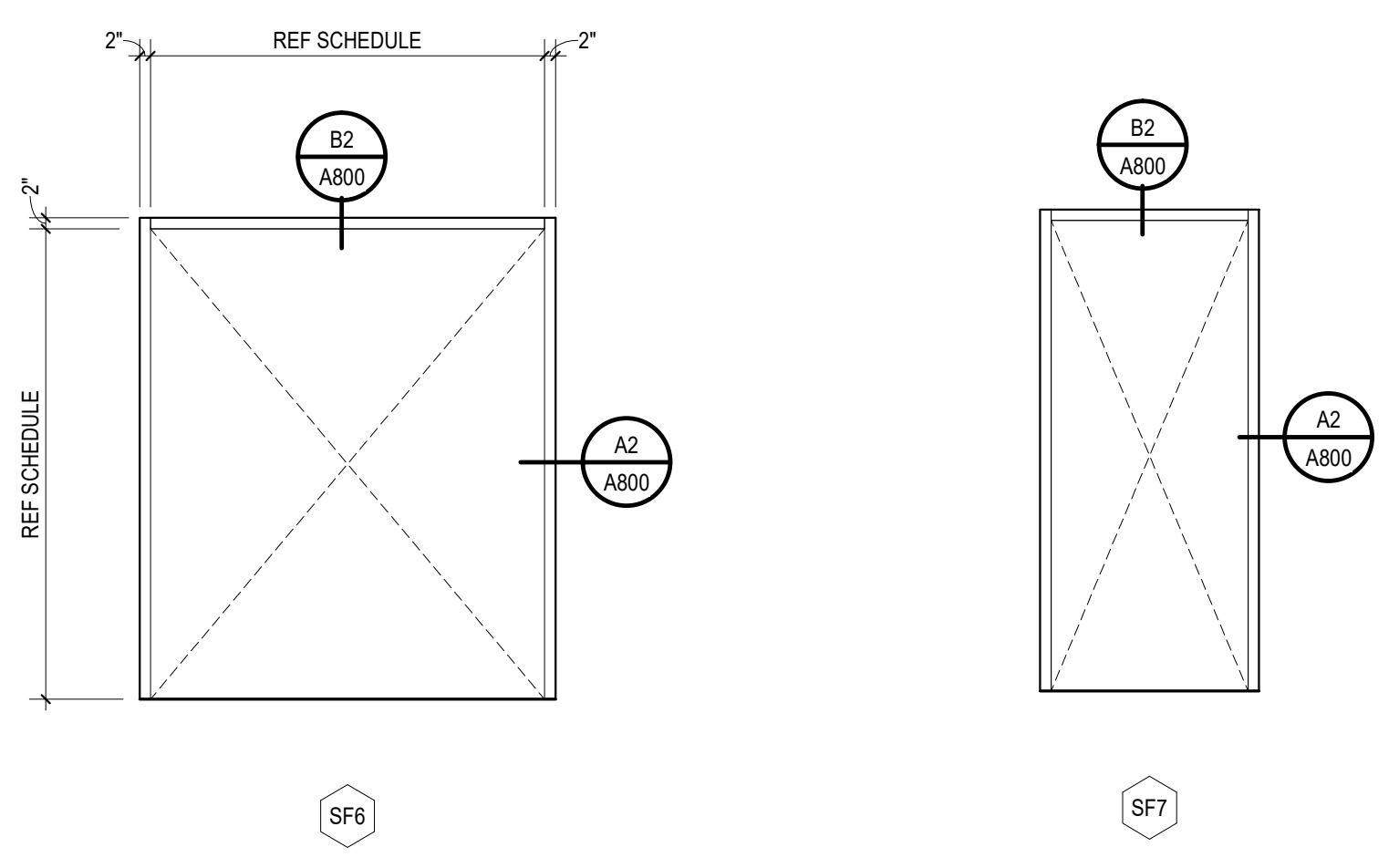
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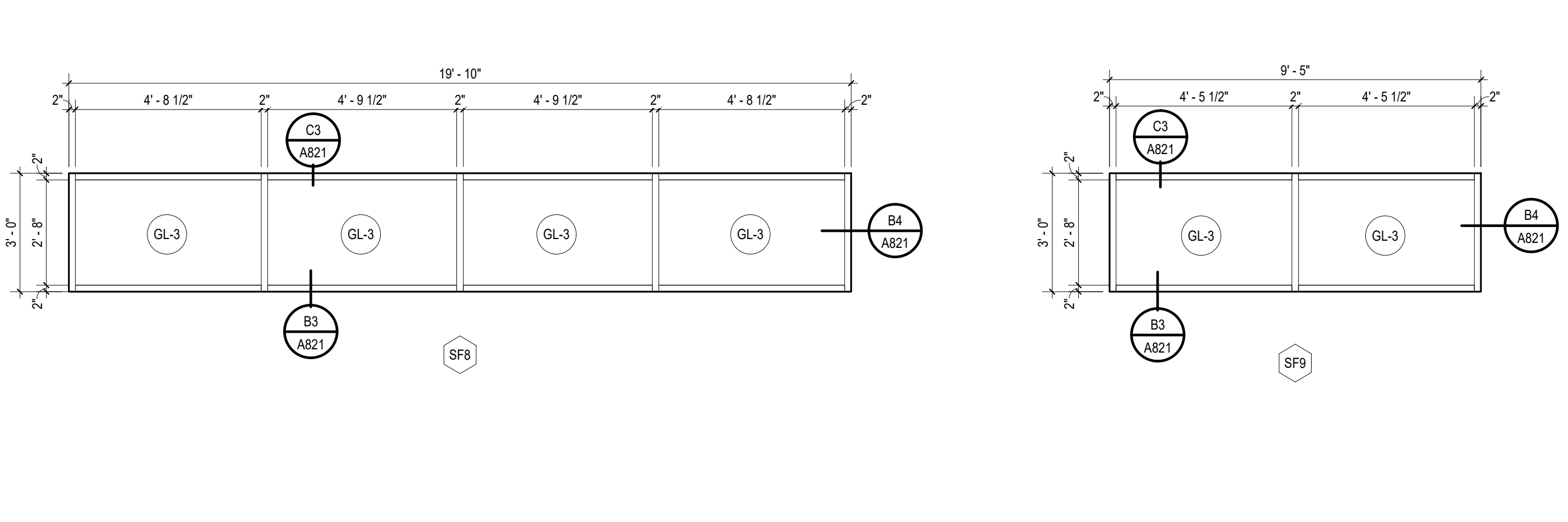
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 DRAWN BY: KW
 SHEET TITLE:
EXTERIOR ALUMINUM FRAMES

SHEET NO. PROJ. NO.
 023432

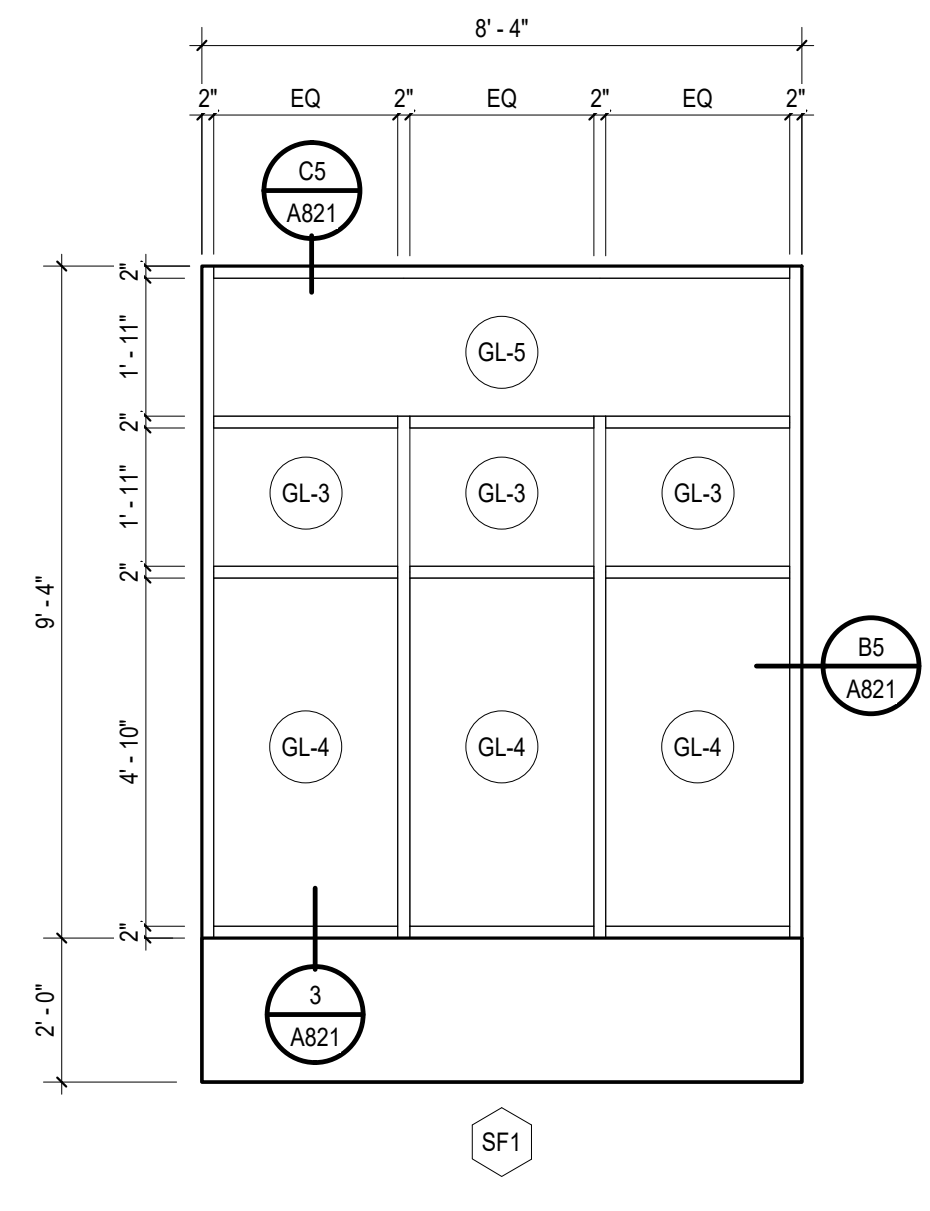
A810



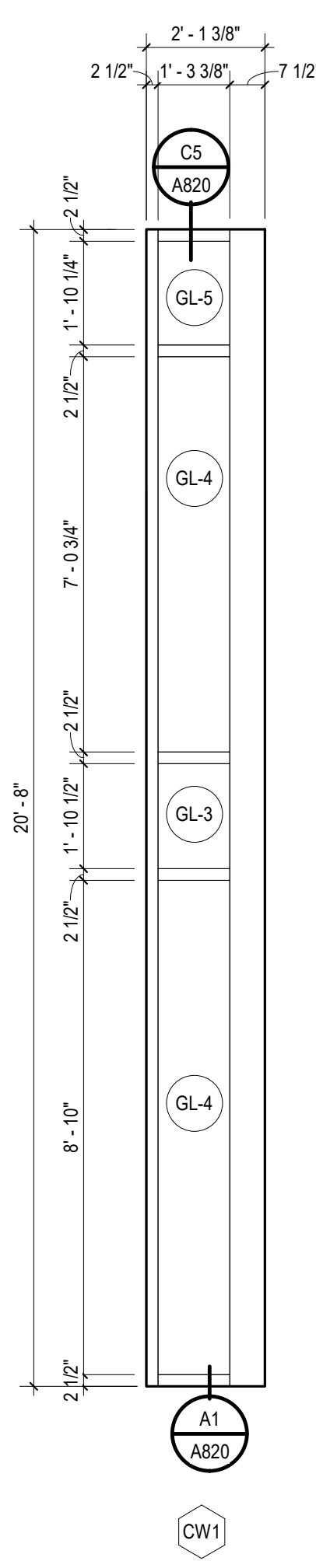
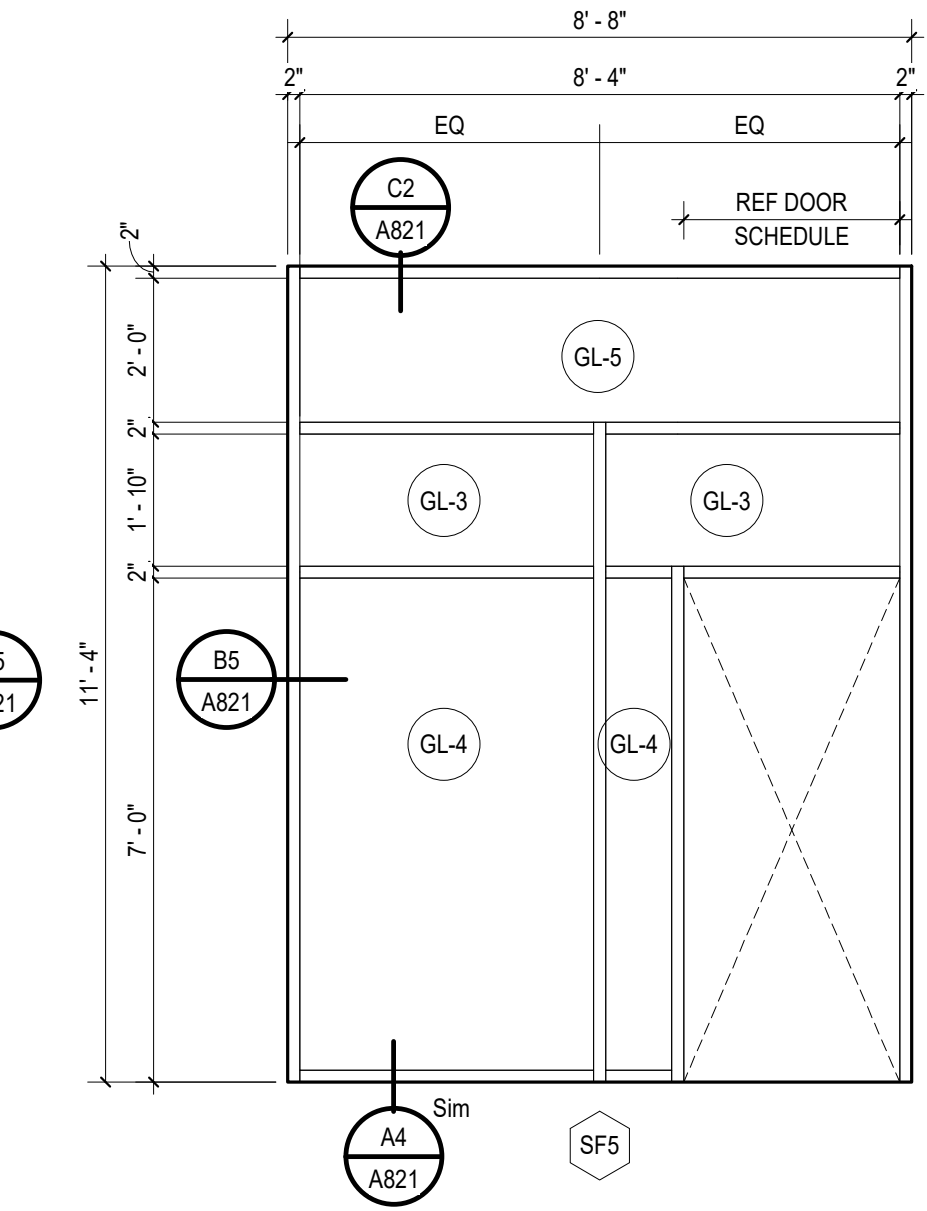
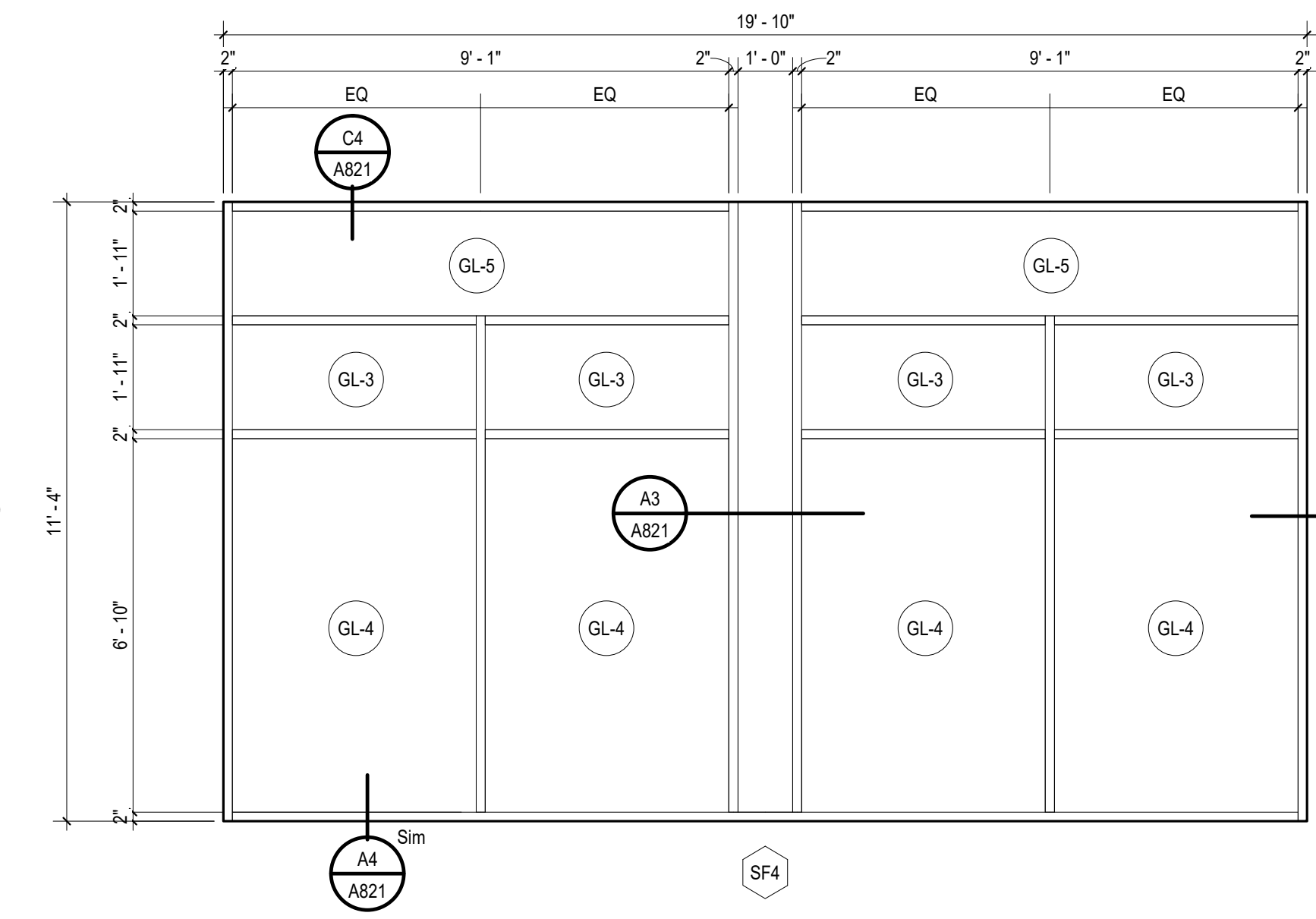
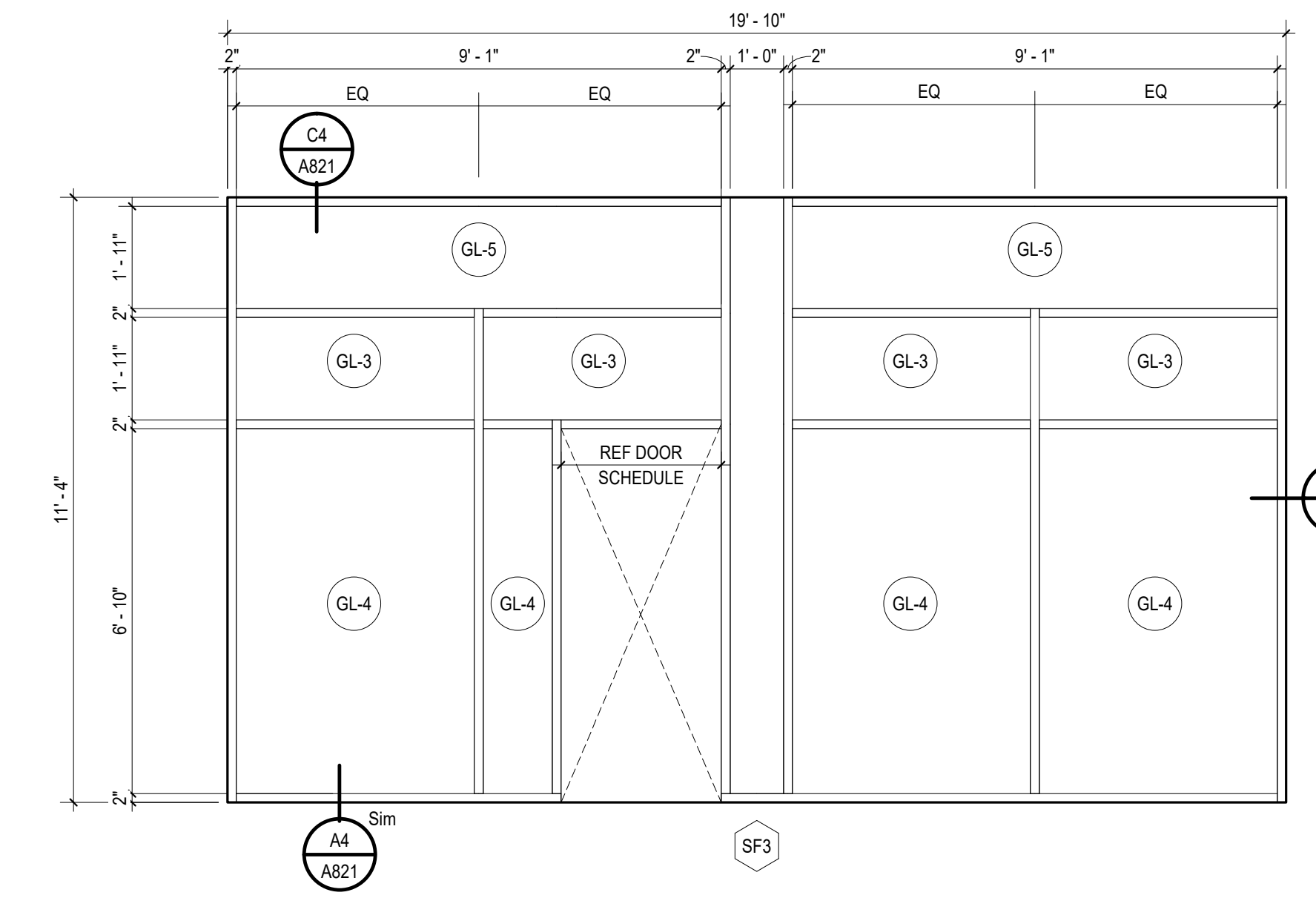
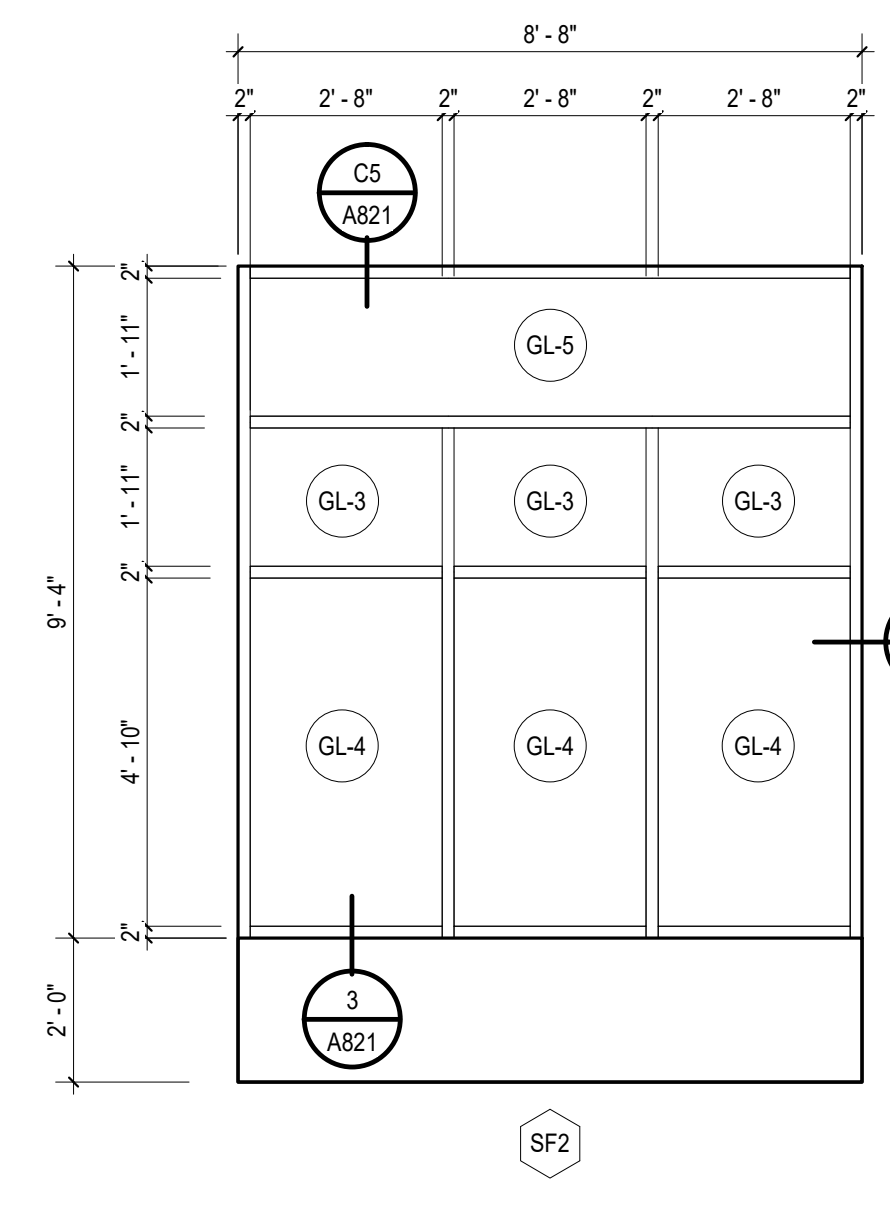
D5 EXTERIOR ALUMINUM FRAMES
 A810 3/8" = 1'-0"



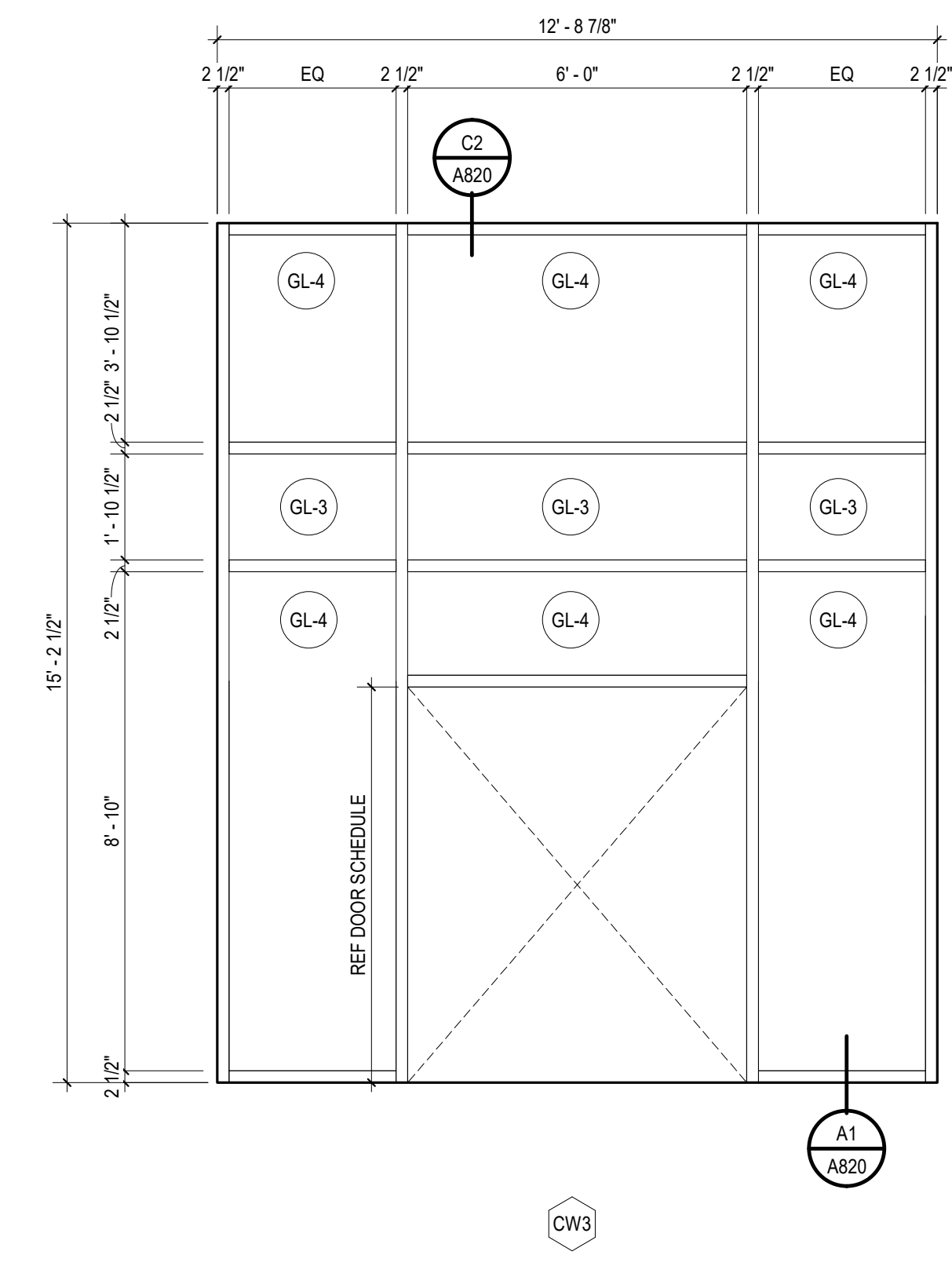
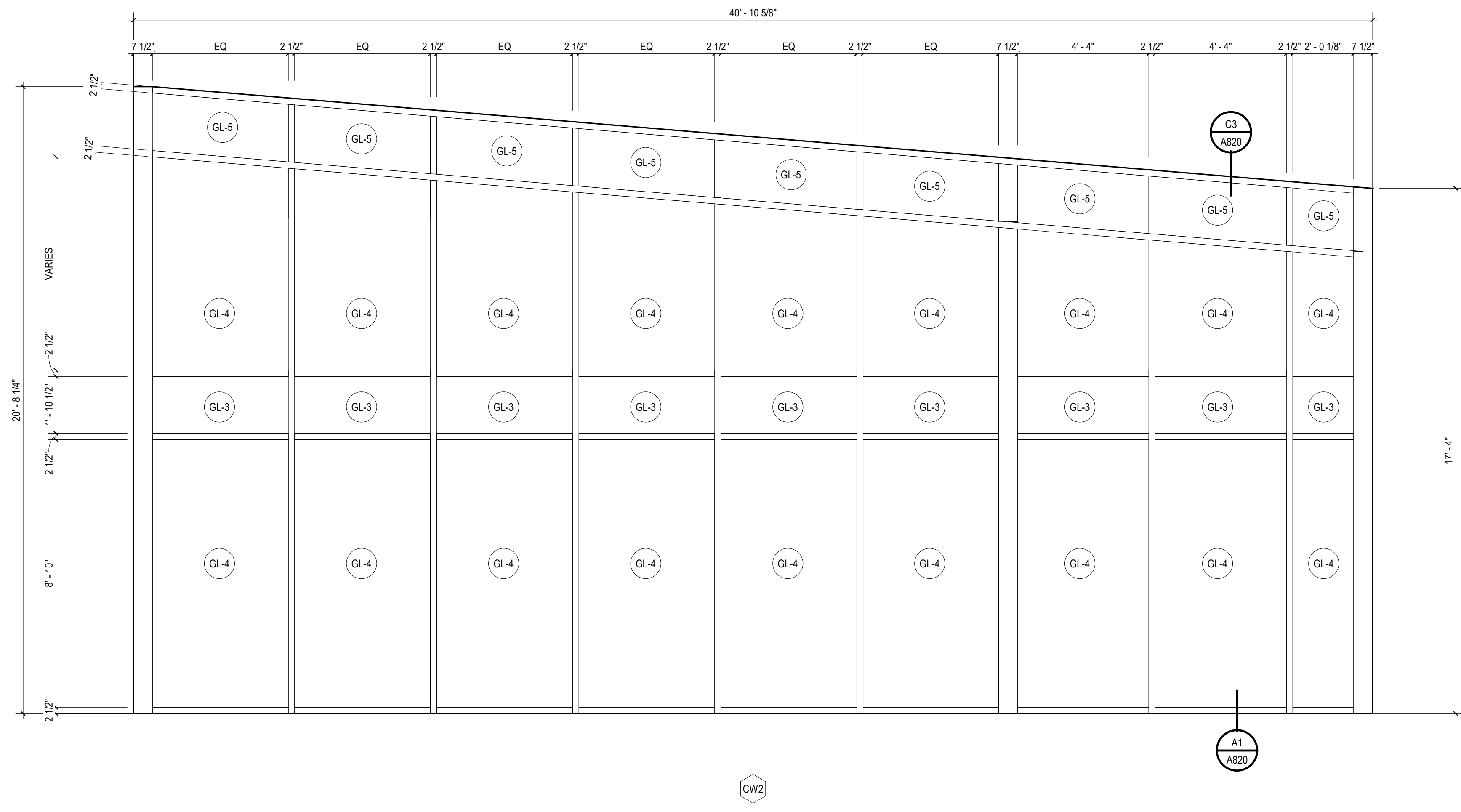
D3 EXTERIOR CLERESTORY FRAMES
 A810 3/8" = 1'-0"



A1 EXTERIOR ALUMINUM FRAMES
 A810 3/8" = 1'-0"



A5 EXTERIOR CURTAIN WALL FRAMES
 A810 3/8" = 1'-0"



A7 EXTERIOR CURTAIN WALL FRAMES
 A810 3/8" = 1'-0"

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GLASS LEGEND

- GL-1 1/4" FULLY-TEMPERED MONOLITHIC FLOAT GLASS
- GL-2 1/4" CLEAR ANNEALED FLOAT GLASS
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- GL-4 1" LOW-E COATED FULLY-TEMPERED INSULATING GLASS
- GL-5 1" SPANDREL GLASS



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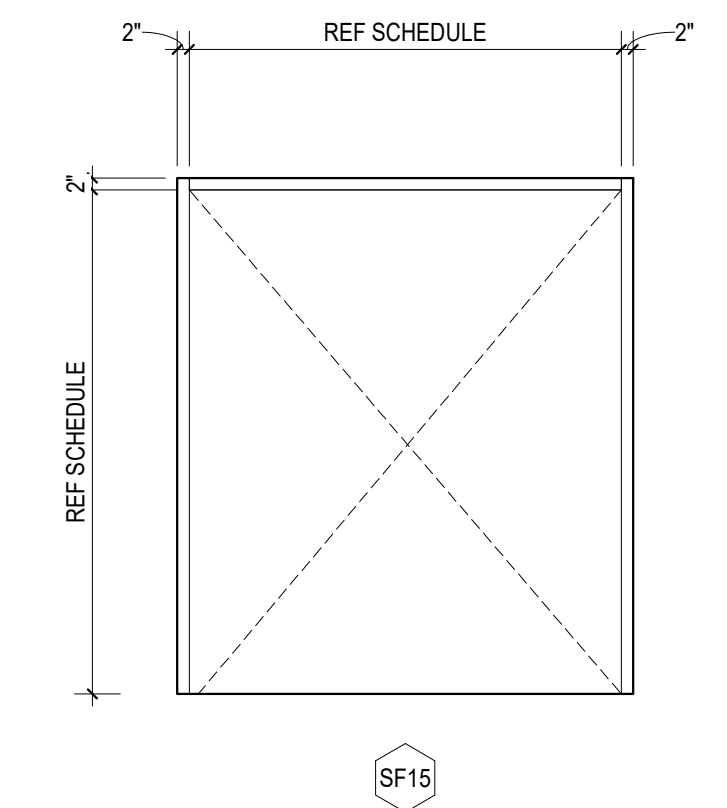
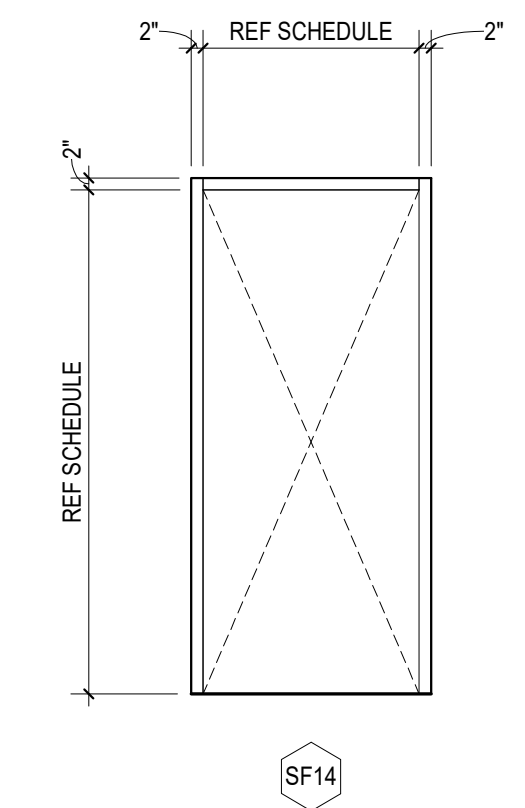
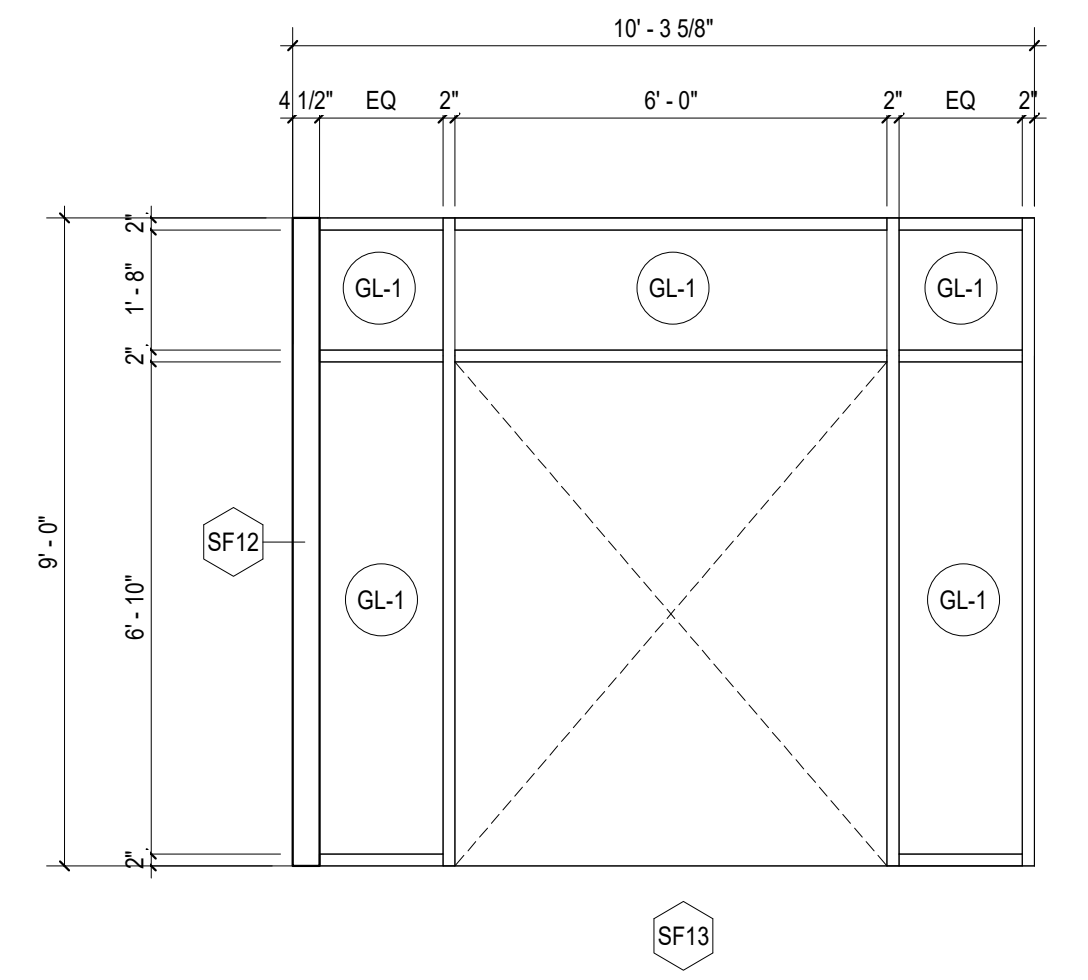
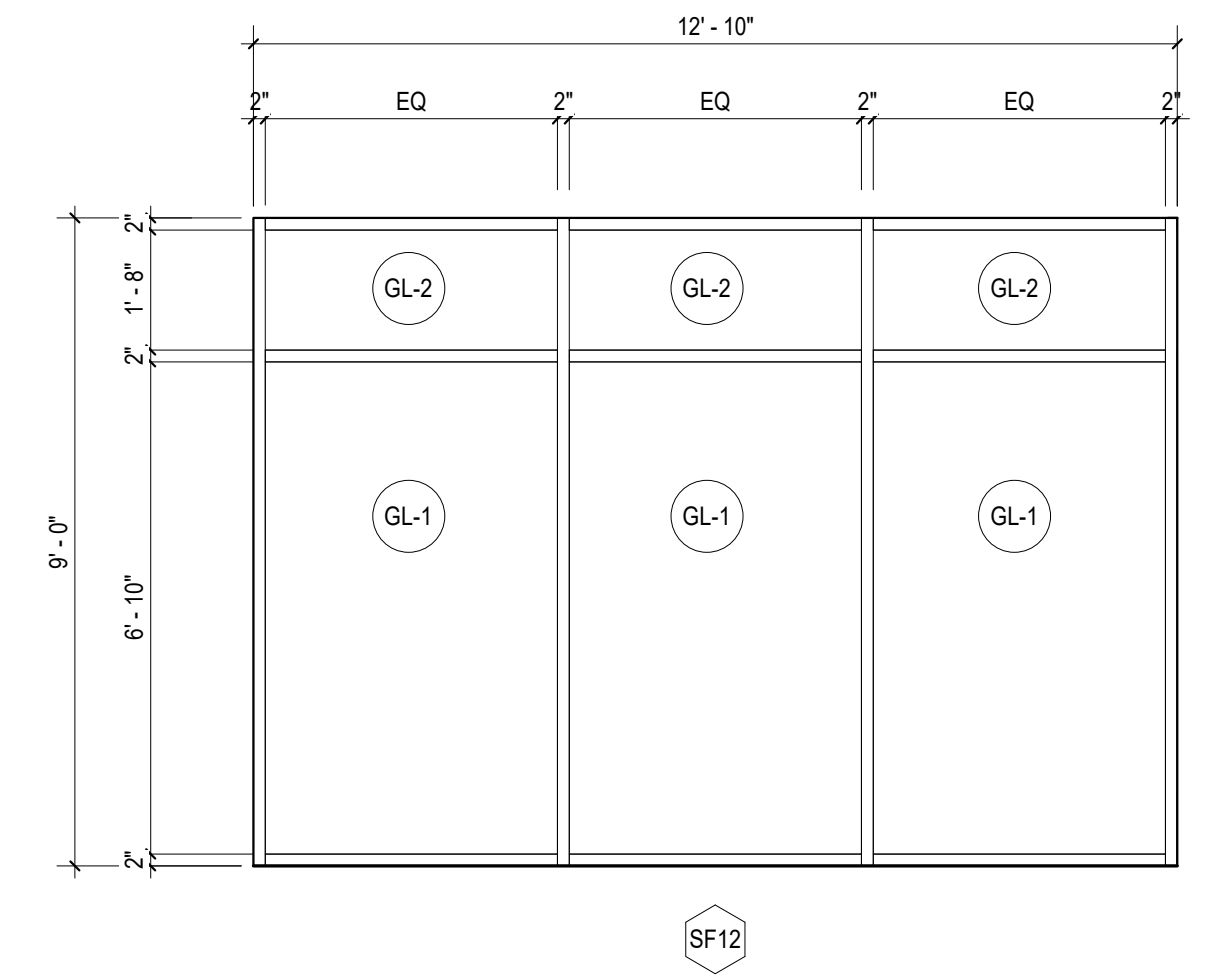
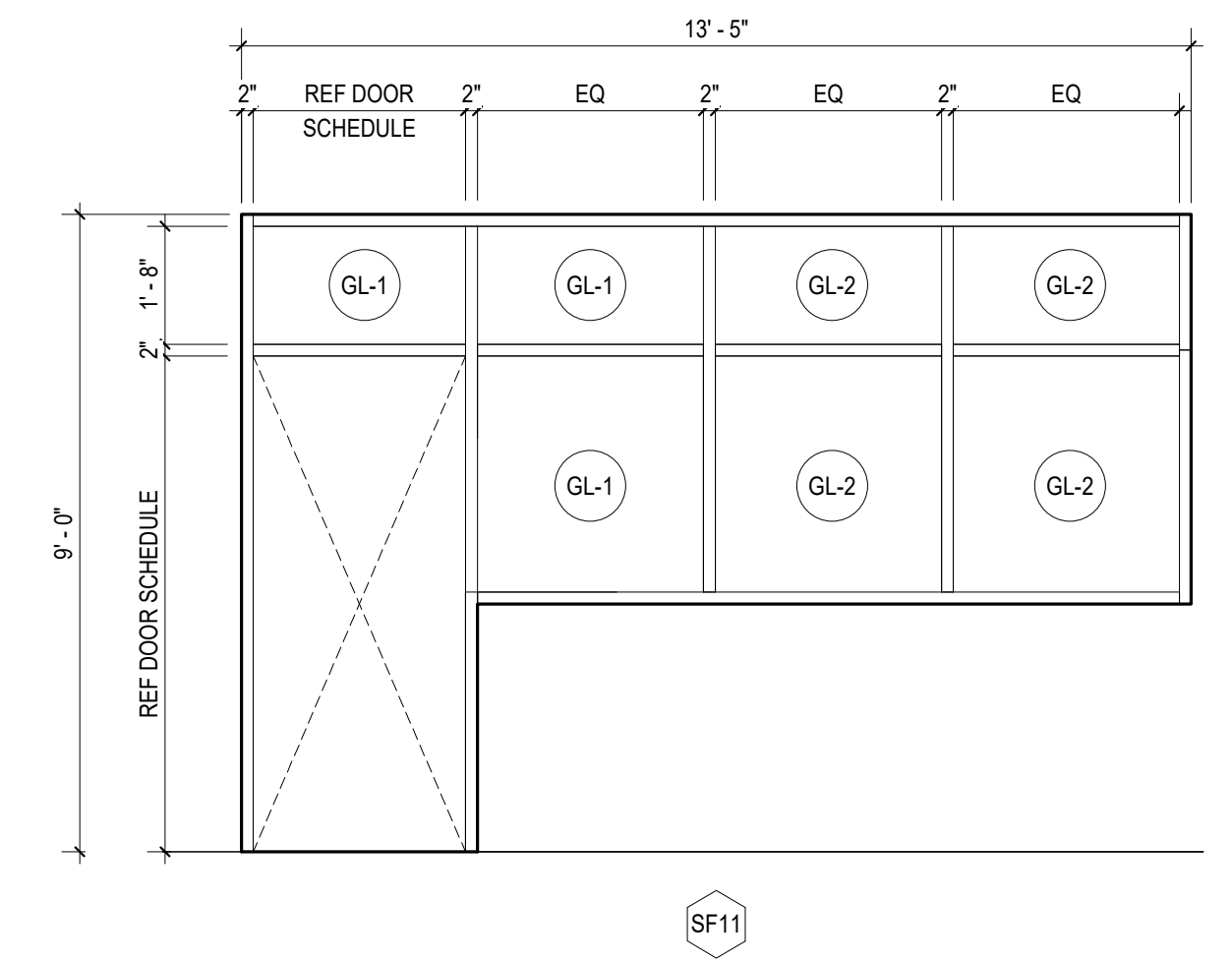
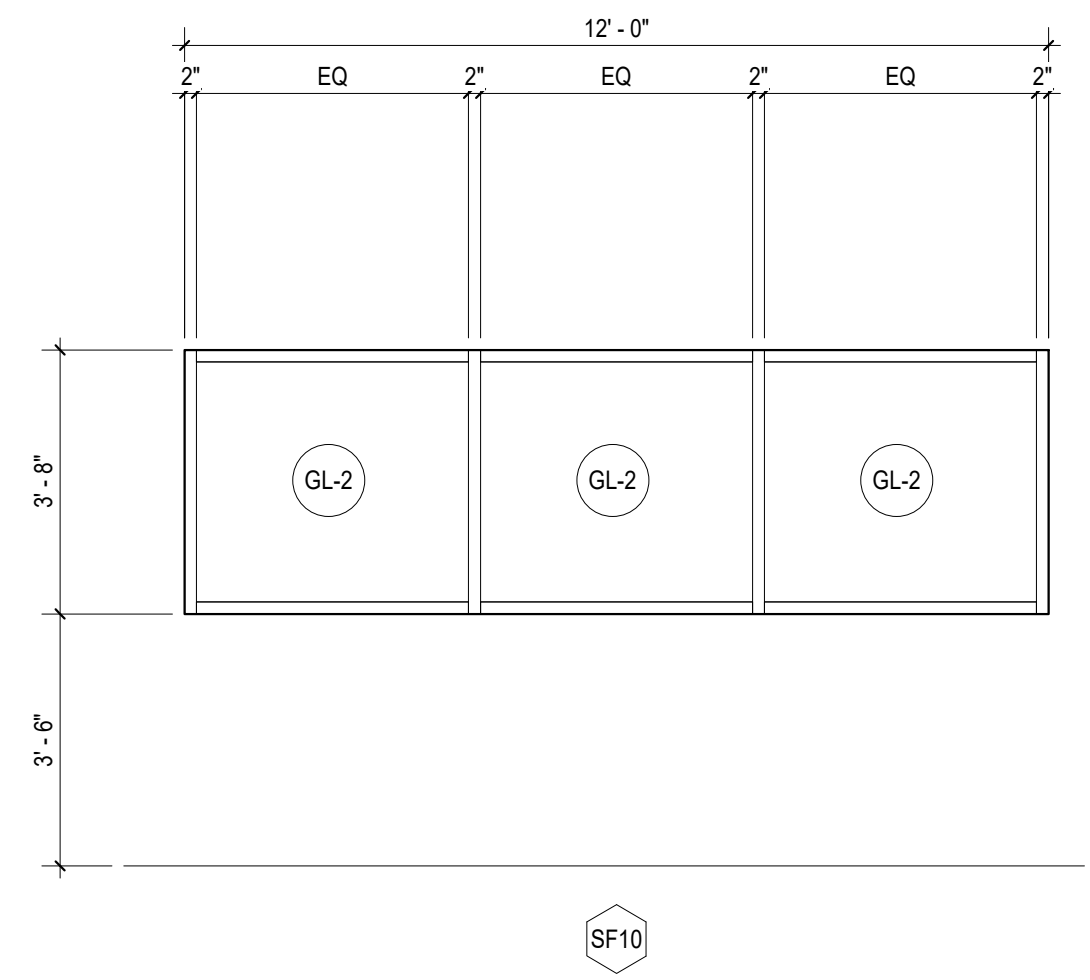
PRINCIPAL IN CHARGE: DRM
 PROJECT ARCHITECT: AMG
 DRAWN BY: AMG

SHEET TITLE: INTERIOR ALUMINUM FRAMES

SHEET NO. PROJ. NO.
 023432

A811

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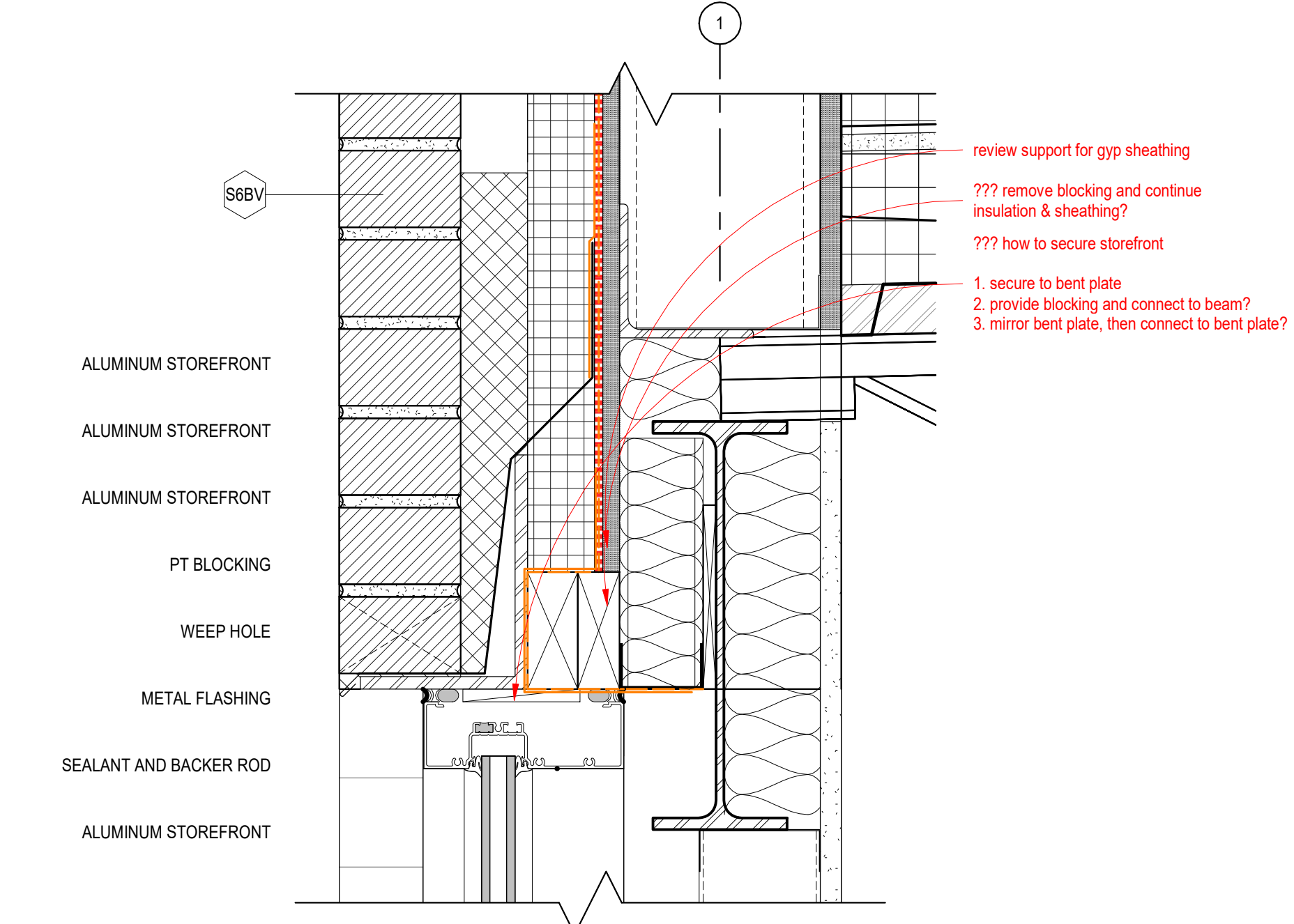
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D

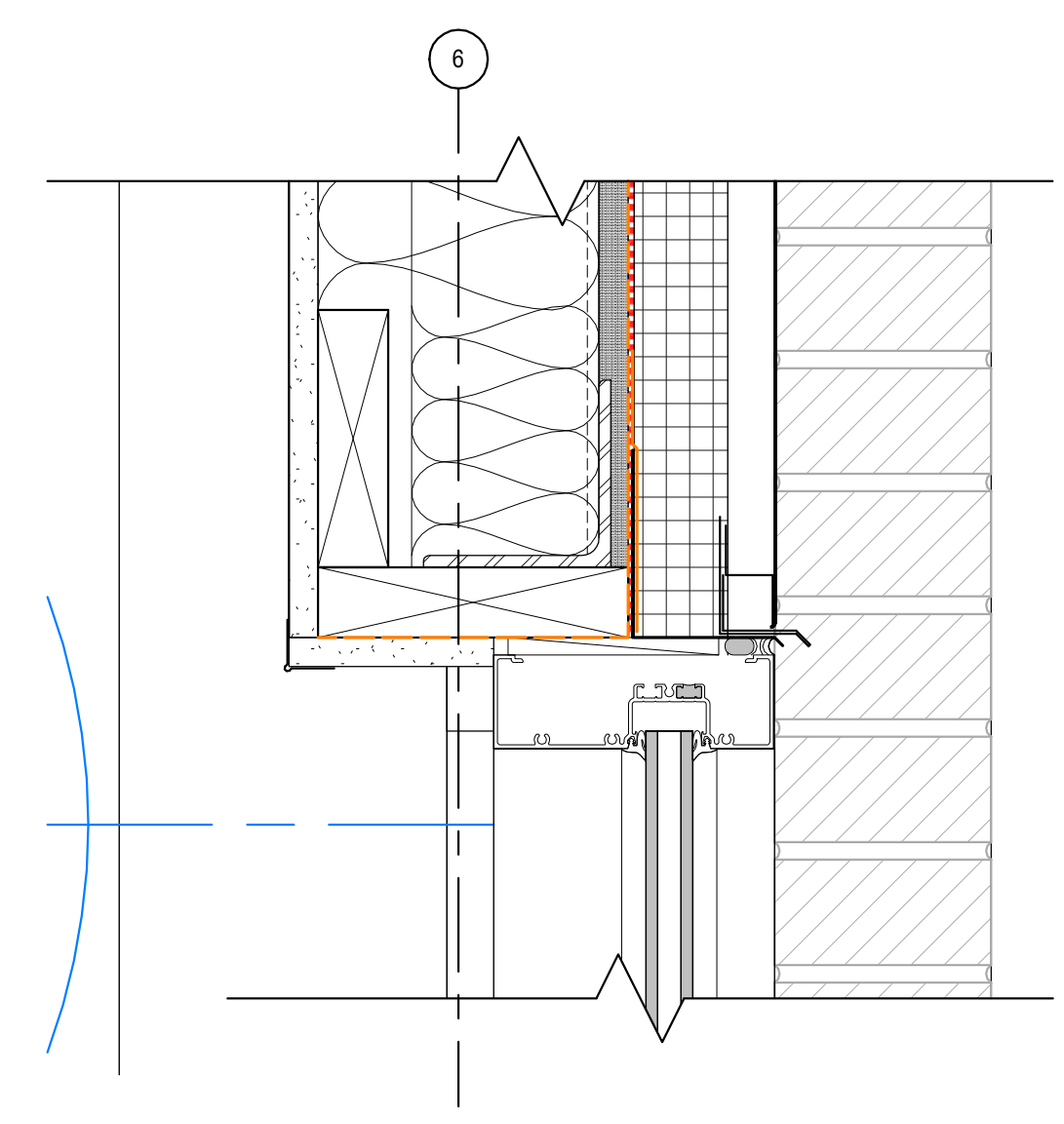
C

B

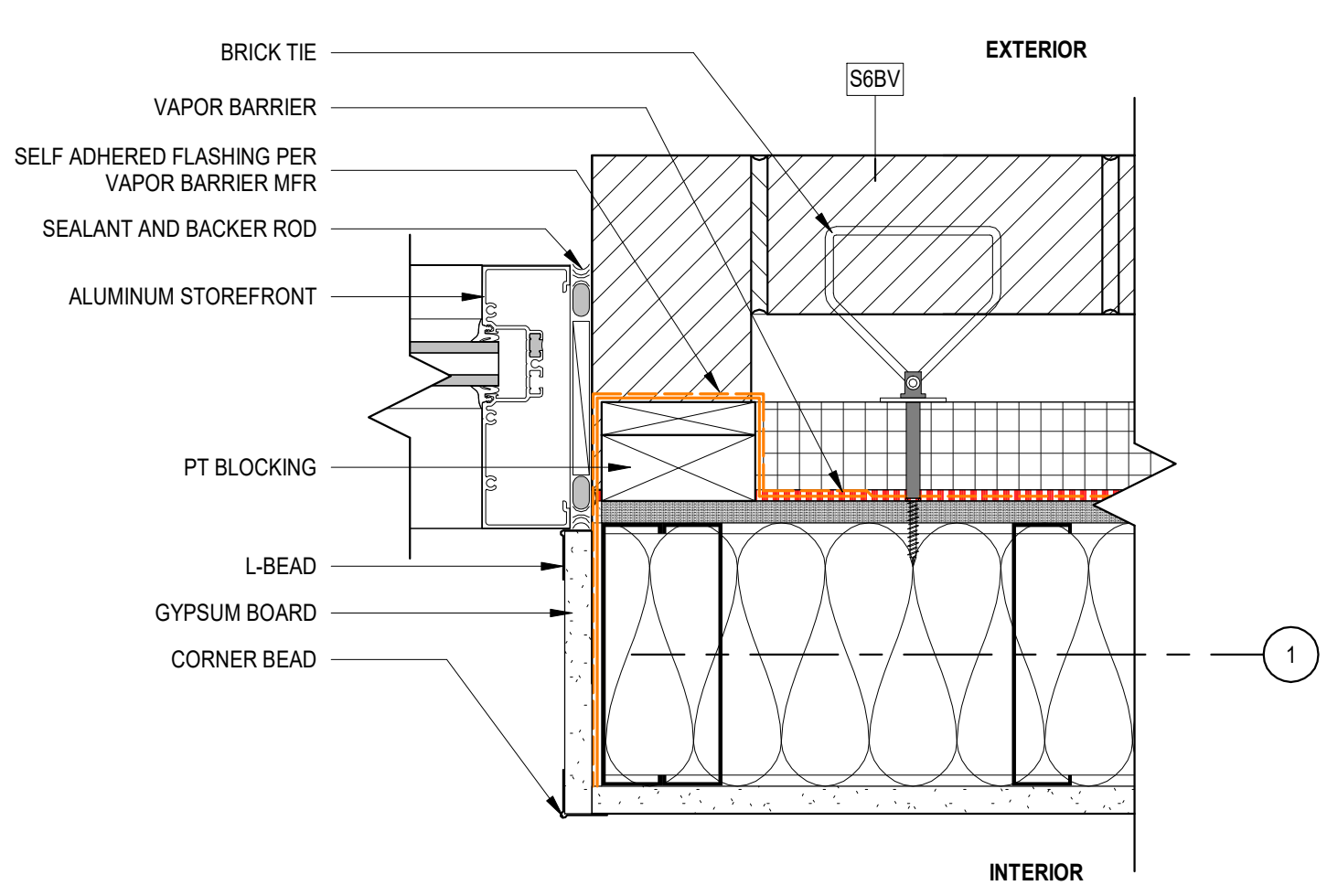
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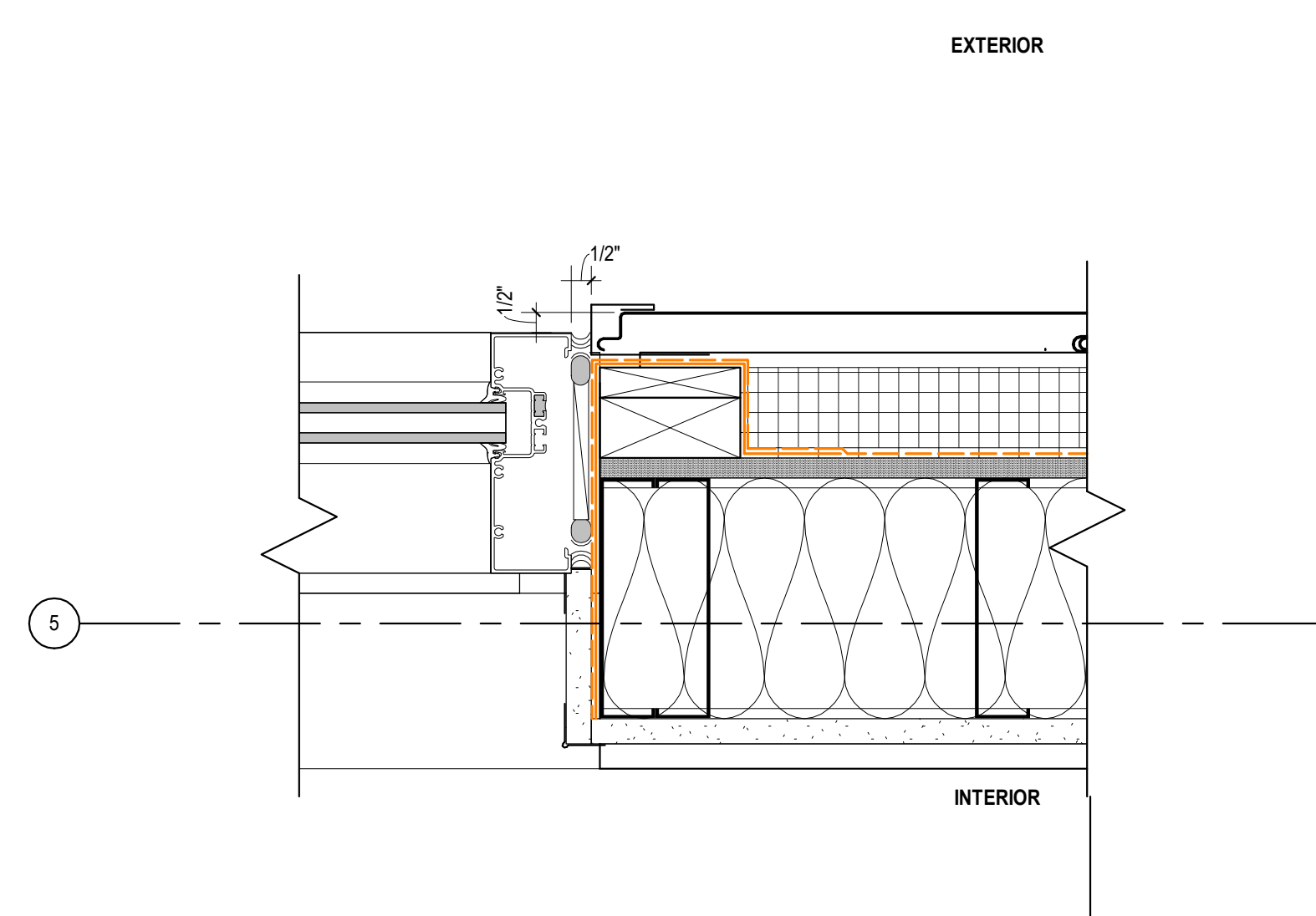
C5 ALUM FRAME HEAD DETAIL - BRICK
3" = 1'-0"



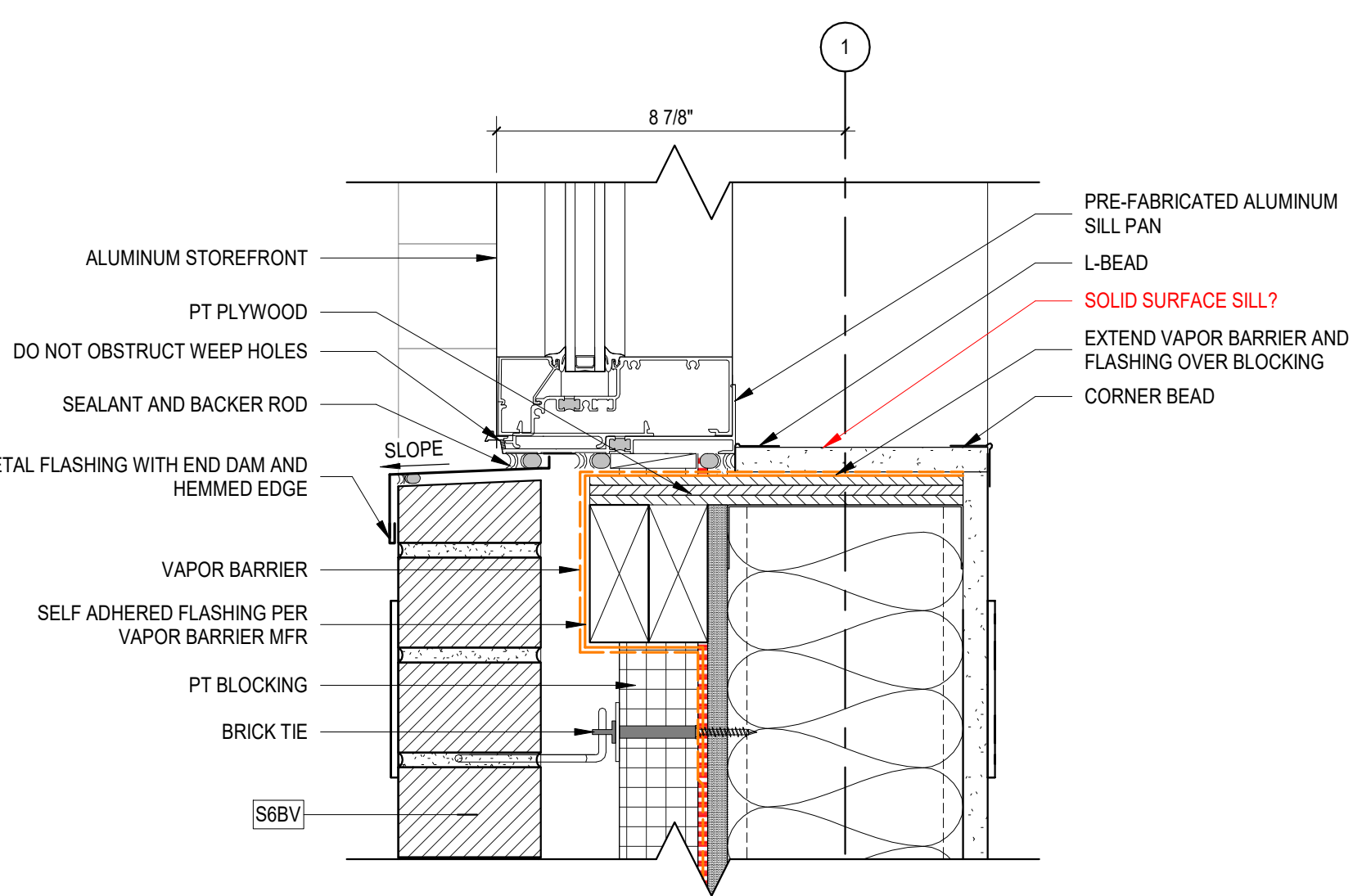
C4 ALUM FRAME HEAD DETAIL - METAL PANEL
3" = 1'-0"



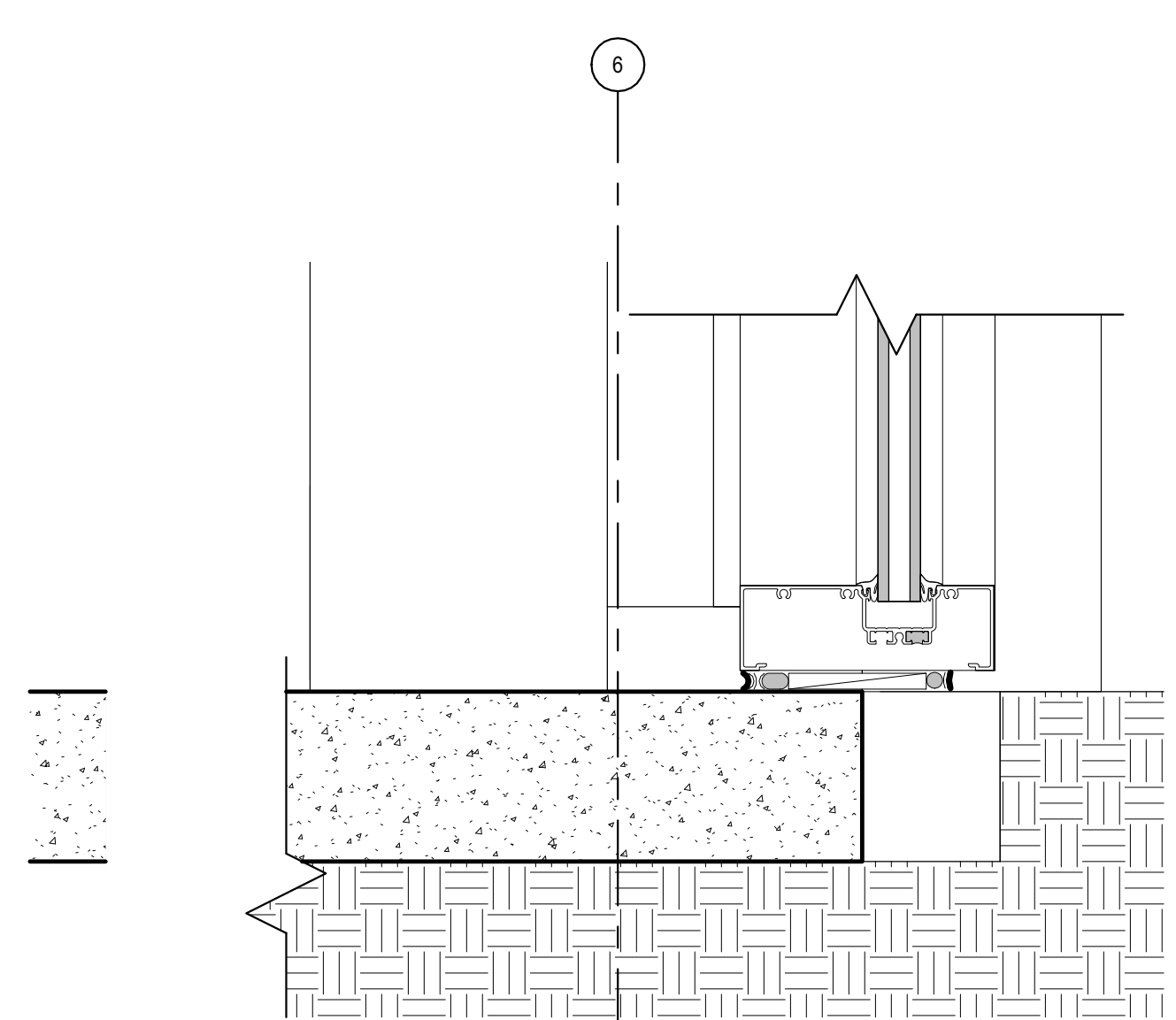
B5 ALUM FRAME JAMB DETAIL - BRICK
3" = 1'-0"



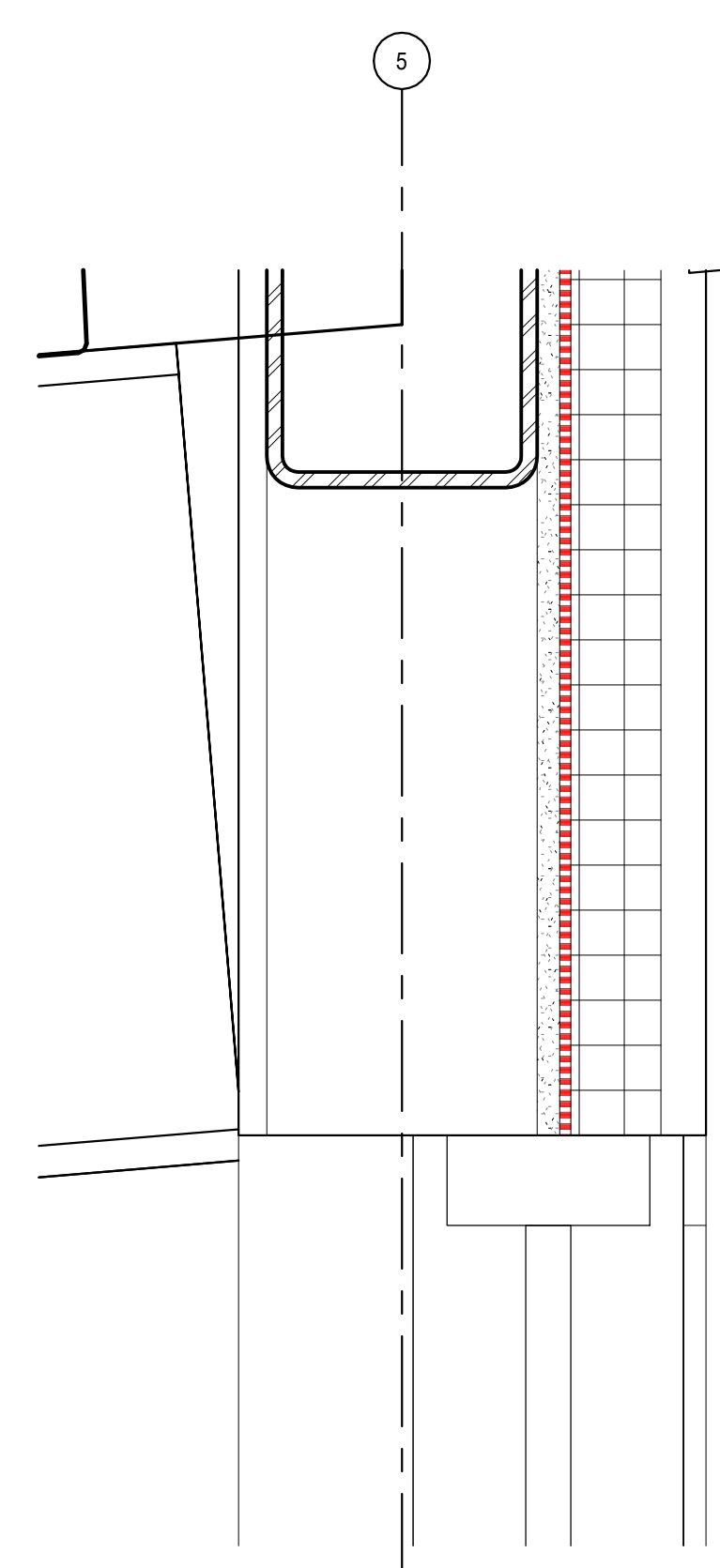
B4 ALUM FRAME JAMB DETAIL - METAL PANEL
3" = 1'-0"



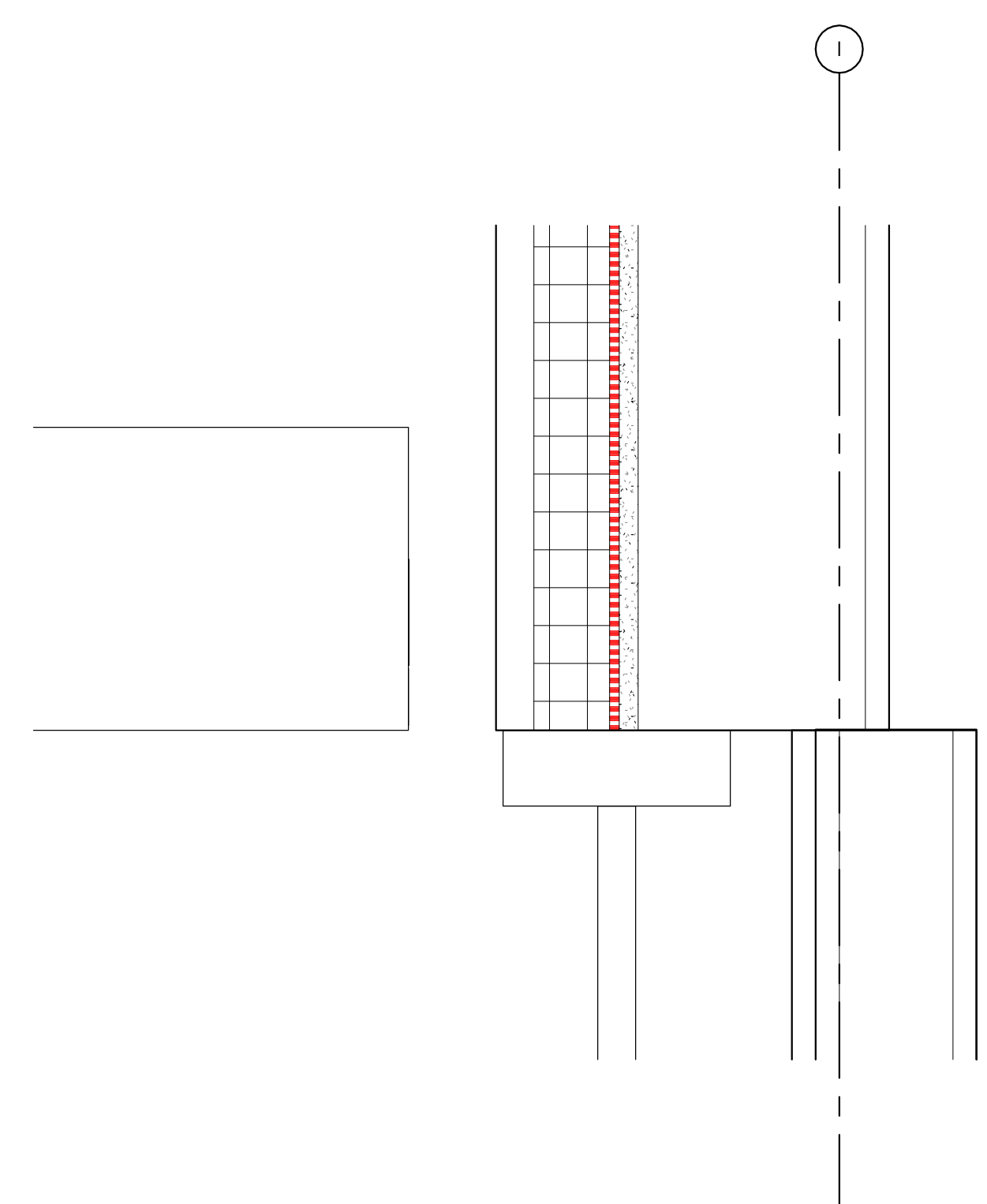
3 ALUM FRAME SILL DETAIL - BRICK
3" = 1'-0"



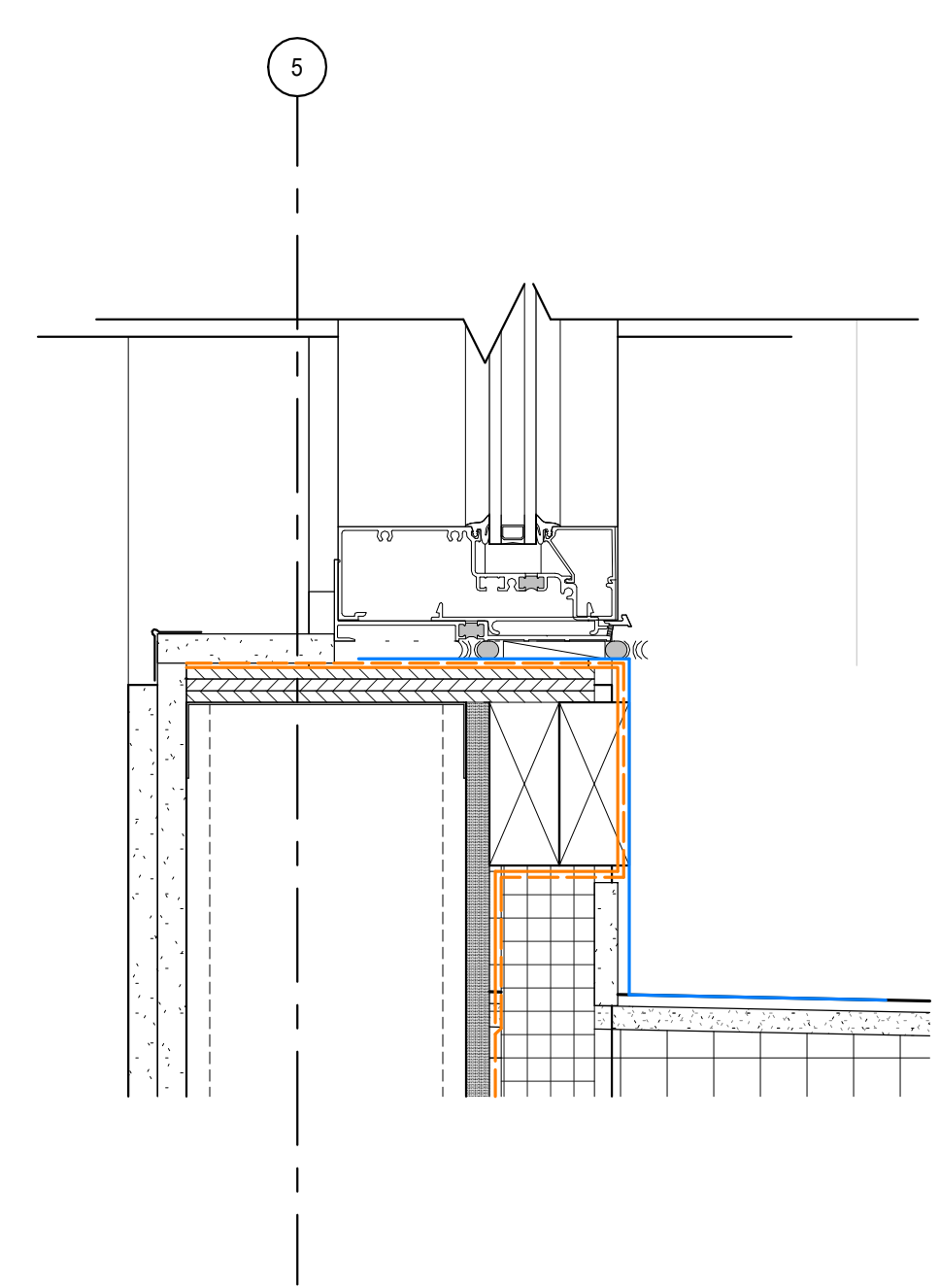
A4 ALUM FRAME SILL - GRADE
3" = 1'-0"



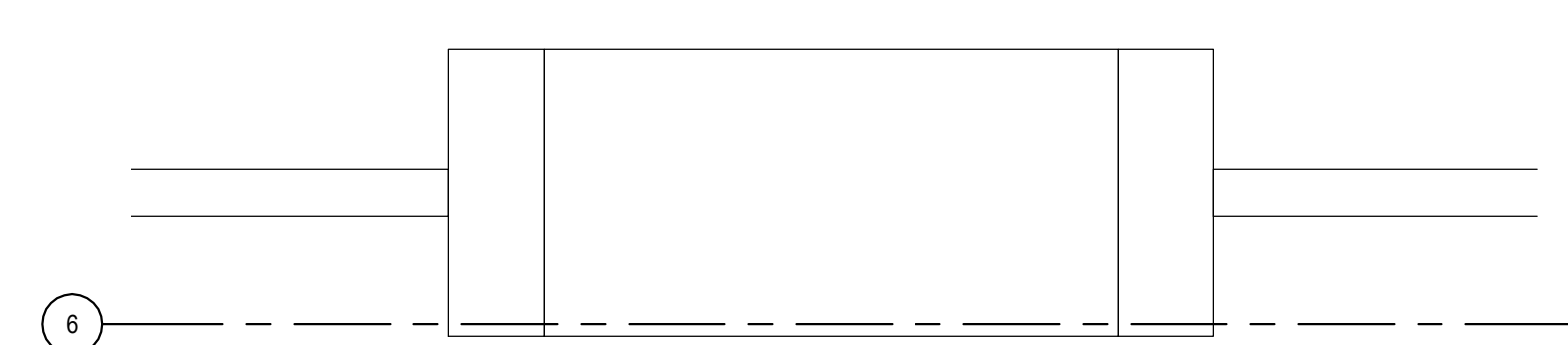
C2 ALUM FRAME HEAD DETAIL AT CLERESTORY
3" = 1'-0"



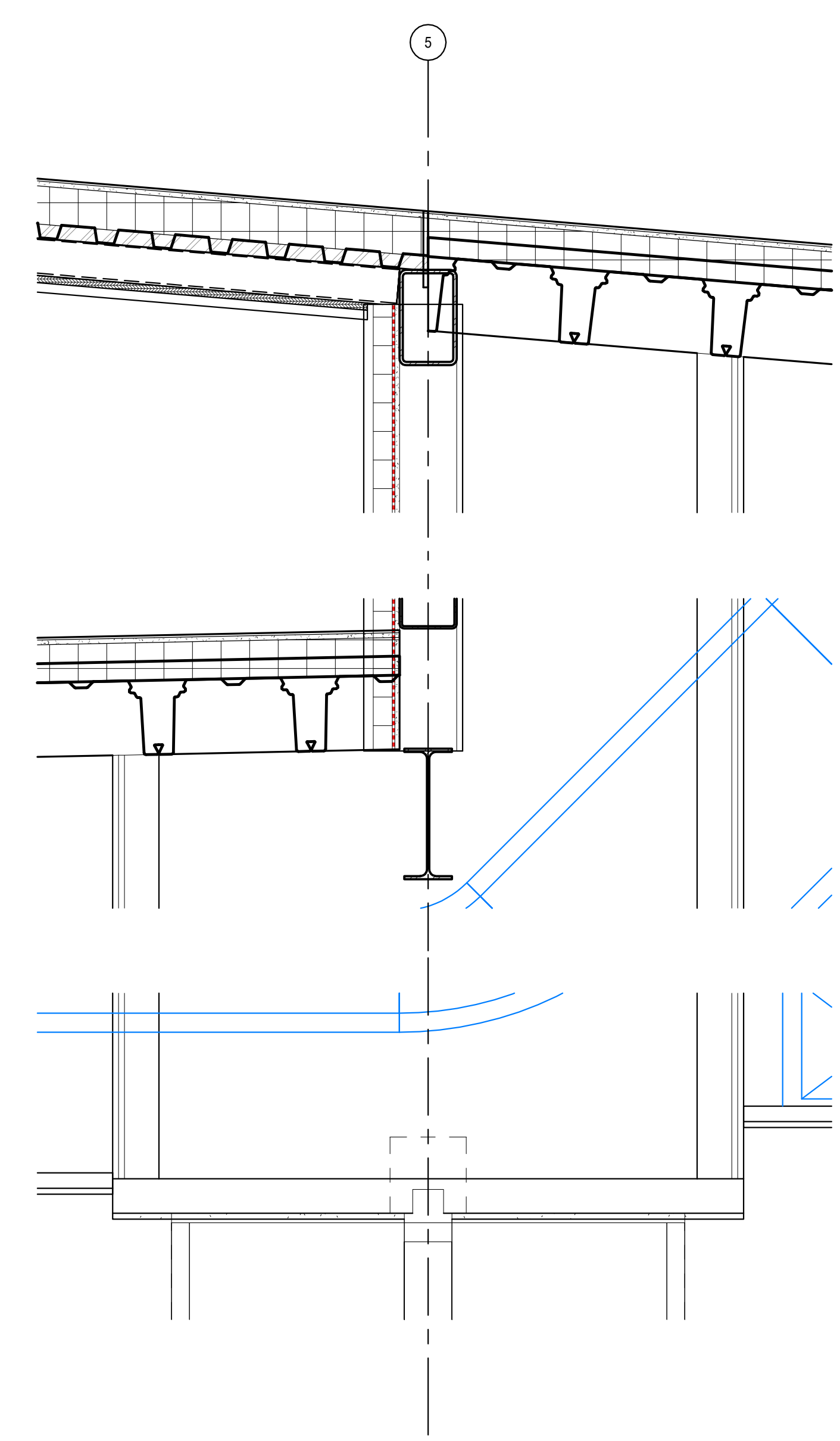
C2 ALUM FRAME HEAD DETAIL AT CHILDREN'S CANOPY
3" = 1'-0"



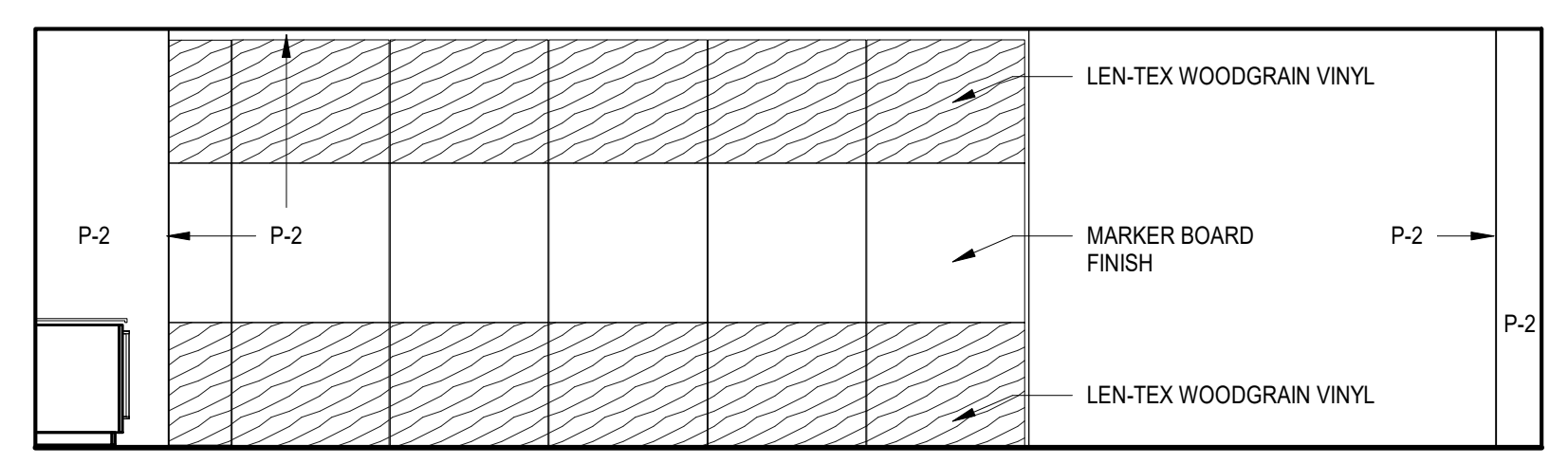
B3 ALUM FRAME SILL DETAIL - CLERESTORY
3" = 1'-0"



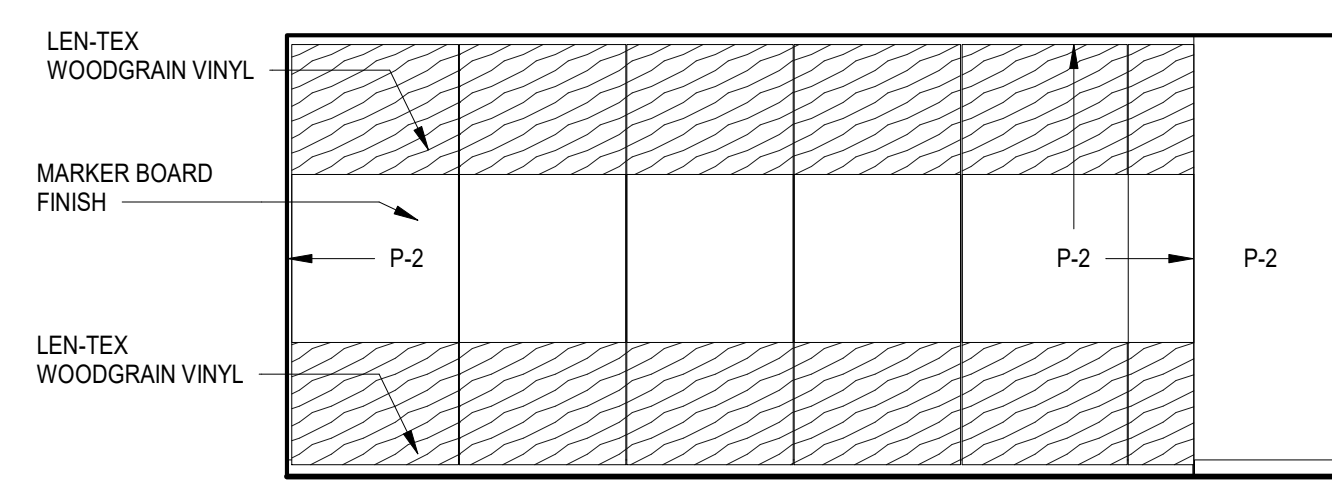
A3 VARIABLE WIDTH MULLION JAMB DETAIL
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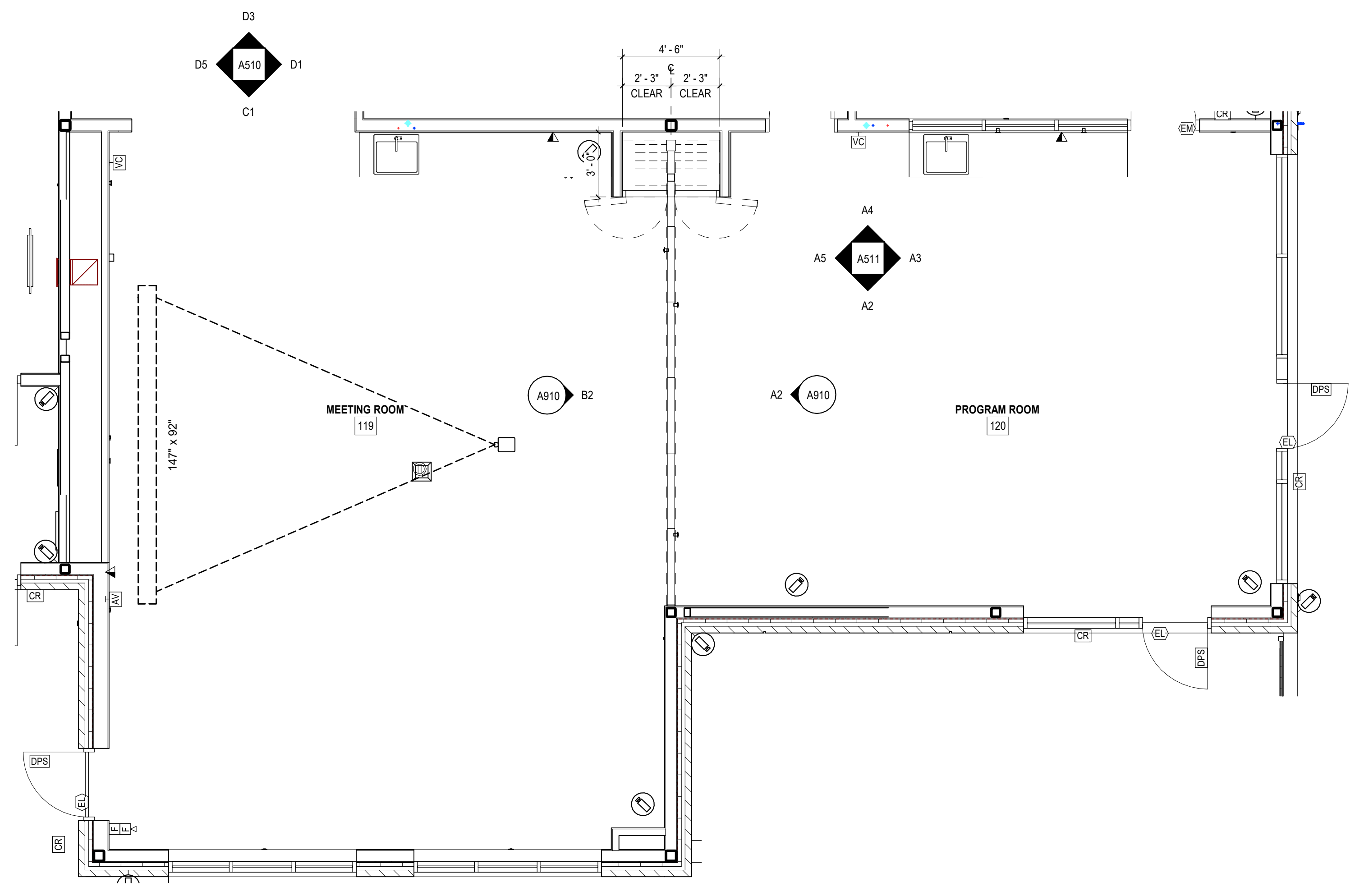
C4
A910
1" = 1'-0"



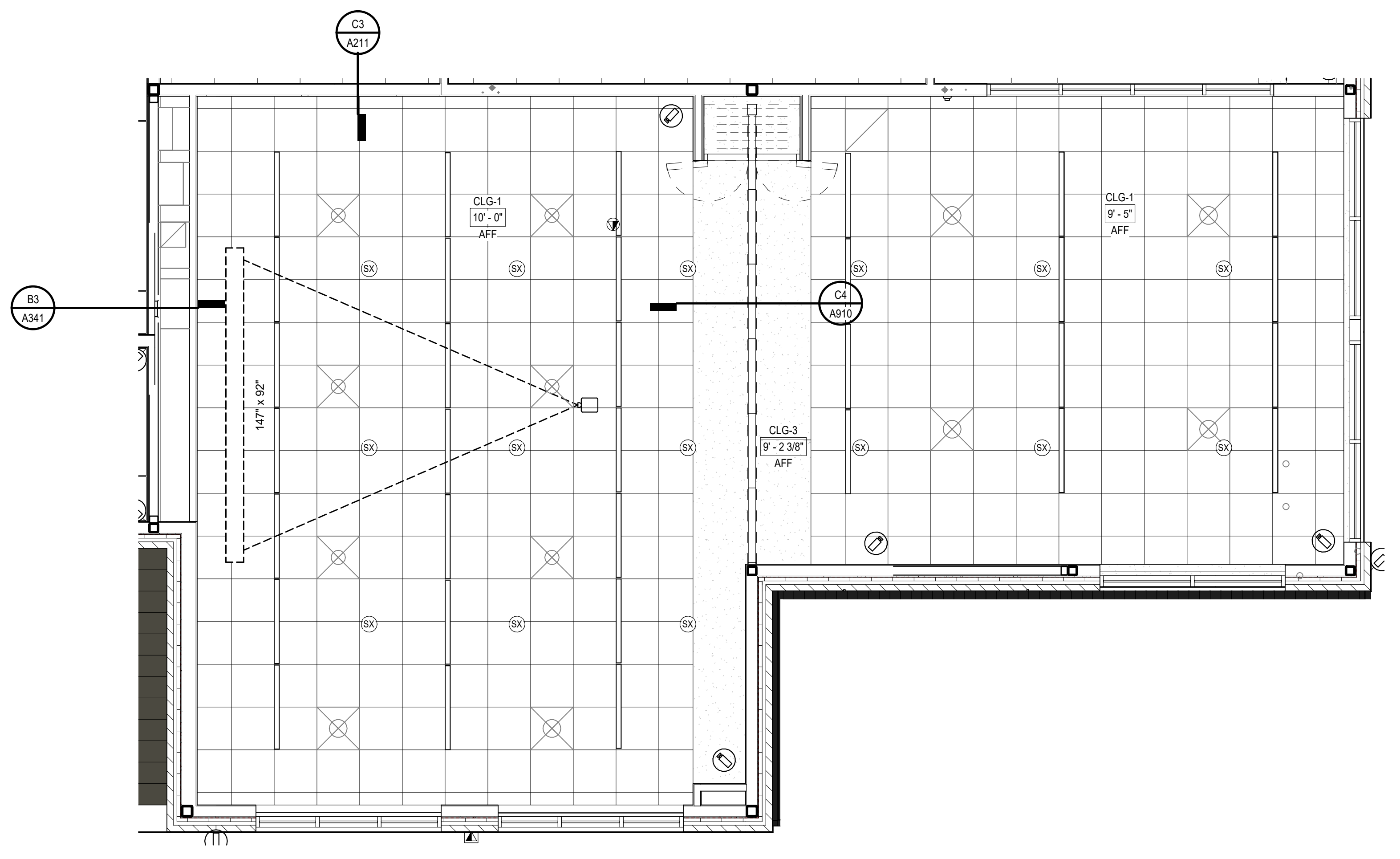
B2
A910
1/4" = 1'-0"



A2
A910
1/4" = 1'-0"

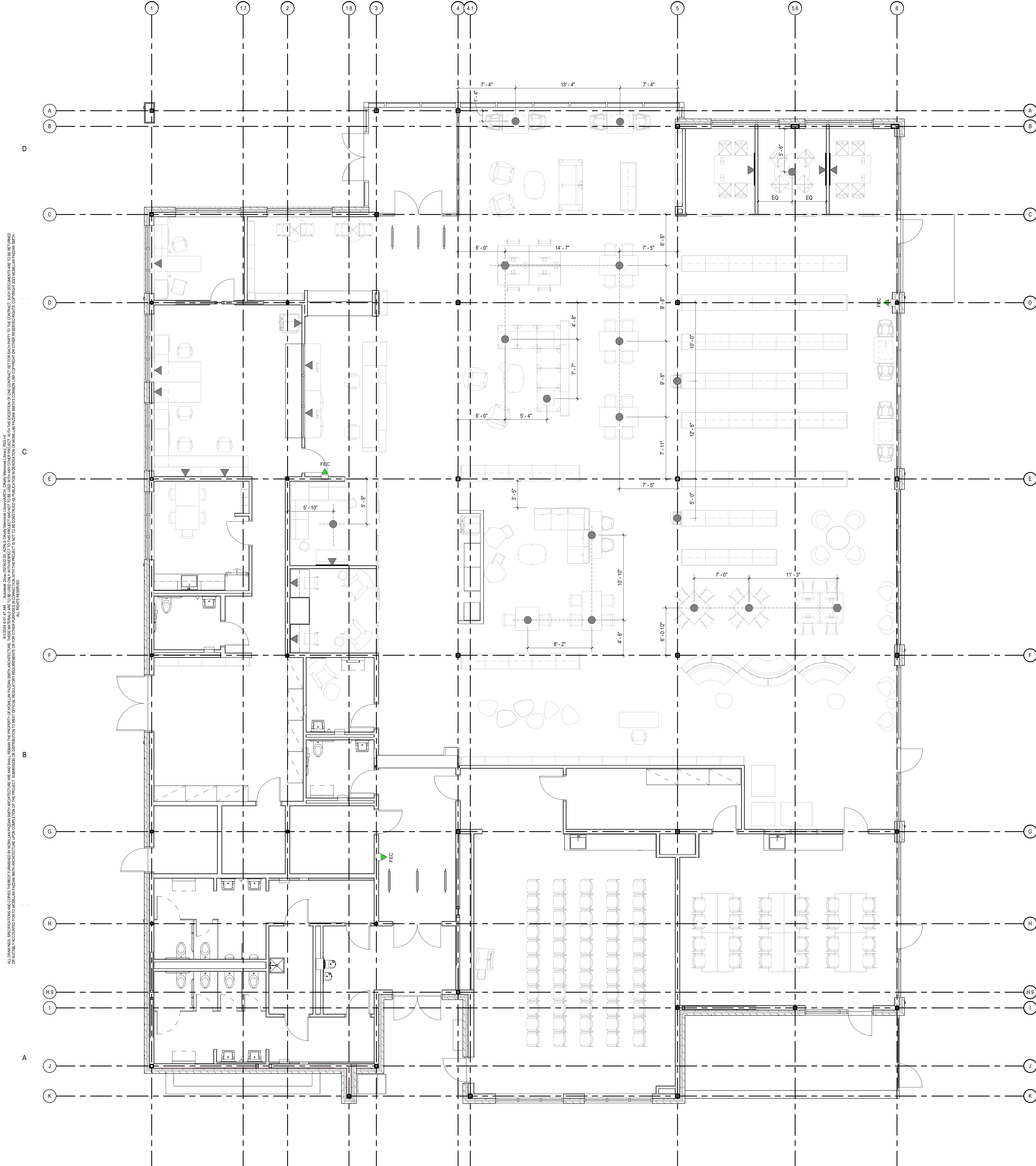


C3
A910
1/4" = 1'-0"



A3
A910
1/4" = 1'-0"

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- B. POWER AND DATA LOCATIONS ARE NOTED TO FACILITATE COORDINATION ONLY; REFERENCE SPECIFIC DISCIPLINE FOR EXACT REQUIREMENTS.
- C. FOR ALL LOCATIONS NOTED TO RECEIVE HARDWIRED FURNITURE, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE AN ELECTRICIAN ON SITE TO CONNECT THE FURNITURE WHIP (PROVIDED BY FURNITURE DEALER) TO BUILDING POWER.

LEGEND

- FURNITURE, EQUIPMENT OR FUTURE PLANNING WITH MODULAR POWER
- ▲ FURNITURE OR EQUIPMENT WITH MODULAR POWER AND DATA
- FURNITURE WITH HARD-WIRE POWER AND DATA



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 PROJECT ARCHITECT: AMG
 DRAWN BY: Author

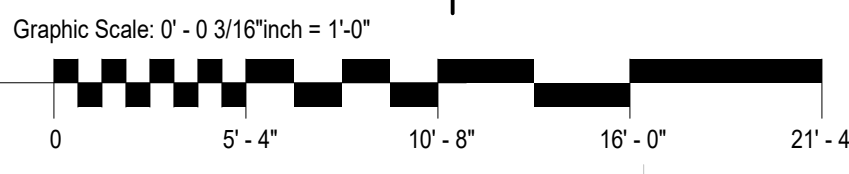
SHEET TITLE
FF&E COORDINATION PLAN

SHEET NO. PROJ. NO. 023432

ID130

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1 FF&E COORDINATION PLAN
 ID130 3/16" = 1'-0"



FLOOR FINISH NOTES

- A. REF ROOM FINISH SCHEDULE FOR FLOOR FINISH SELECTIONS. FLOOR FINISH PLAN CLARIFIES MATERIAL/COLOR EXTENT AND TERMINATION LOCATIONS NOT EVIDENT IN SCHEDULE.
- B. INSTALL ADA COMPLIANT TRANSITIONS STRIPS AT THRESHOLD BETWEEN DIFFERING FLOOR MATERIALS. UNO
- C. FLOOR MATERIAL TRANSITIONS BETWEEN ROOMS SHALL OCCUR AT THE CENTERLINE OF THE OPENING OR DOOR WHILE IN THE CLOSED POSITION. UNO
- D. USE APPROPRIATE SUBFLOOR LEVELER WHERE FLOORING MATERIAL TRANSITION DOES NOT MEET FLUSH AND/OR WHEN MATERIAL HEIGHT DOES NOT SATISFY TRANSITION STRIP TOLERANCE.
- E. WALK-OFF FLOORING SHALL BE LOCATED AT ALL COMMON ENTRIES TO INTERIOR OF BUILDINGS. REF FINISHES AND MATERIALS SCHEDULE FOR DETAILS.
- F. CONTINUE ALL SCHEDULED FLOORING MATERIALS UNDER MILLWORK AND INTO ALL RECESSES. UNO
- G. MINIMIZE FLOORING SEAMS AND PLACE IN INCONSPICUOUS AND LOW TRAFFIC AREAS WHERE POSSIBLE. CONTRACTOR TO PROVIDE ARCHITECT WITH SEAMING DIAGRAM AND INSTALLATION PLAN FOR ALL FLOORING PRIOR TO INSTALLATION OF ALL FLOOR COVERINGS.
- H. REF FLOORING DIRECTION SYMBOL ON FLOOR FINISH PLANS FOR INSTALLATION DIRECTION. DO NOT FOLLOW HATCH PATTERN DIRECTION SHOWN ON PLANS. HATCH PATTERNS INDICATE MATERIAL LOCATION AND TRANSITION ONLY.

FLOOR FINISH LEGEND

	CPT-1		EPX-1		INDICATES INSTALLATION DIRECTION OF PLANKS
	CPT-2		FRT-1		
	CPT-3		FRT-2		
	CPT-4		LVT-1		
	CPT-5		SC		
	CPT-6		WCT-1		

SHEET KEYNOTES

- 1. ALIGN
- 2. TRANSITION TR-1
- 3. TRANSITION TR-2
- 4. CPT-1
- 5. CPT-4
- 6. CPT-5
- 7. FRT-2
- 8. FRT-1

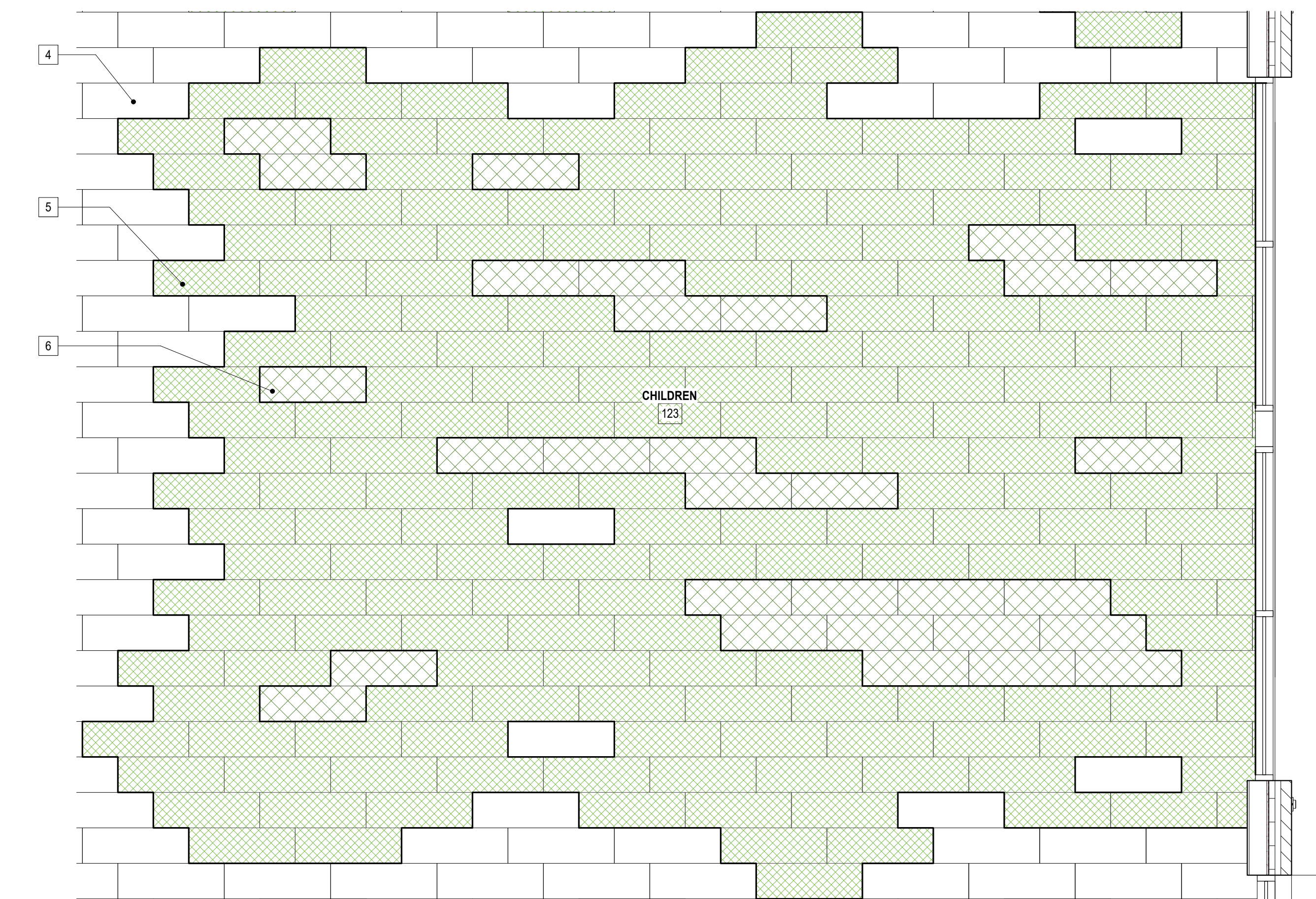
ISSUE DATE:	2024.06.28	
PHASE:	CONSTRUCTION DOCUMENTS	
SHEET ISSUE:		
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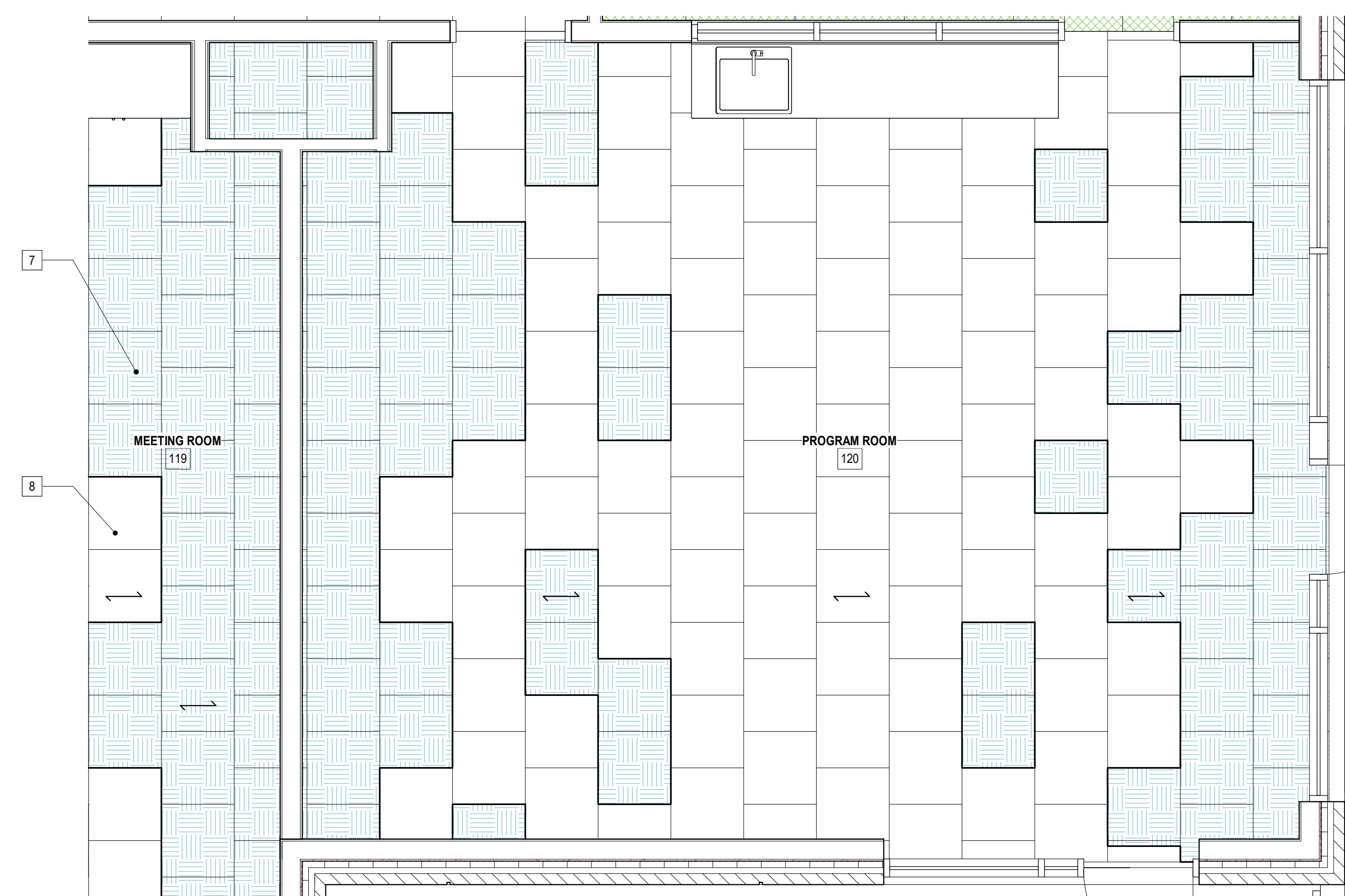
SHEET TITLE:
FLOOR FINISH PLAN

SHEET NO. PROJ. NO.
 023432

ID100

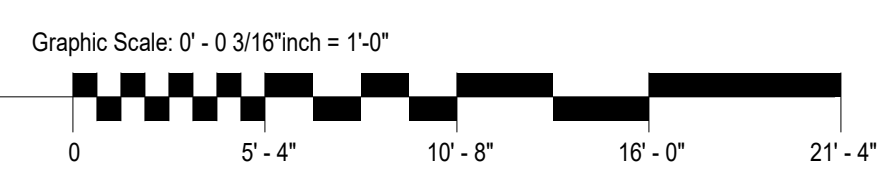


CHILDREN'S AREA - TYPICAL CARPET LAYOUT
 3/8" = 1'-0"



MEETING AND PROGRAM ROOM - TYPICAL CARPET LAYOUT
 3/8" = 1'-0"

LEVEL 01 - FLOOR FINISH PLAN
 3/16" = 1'-0"



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FINISHES AND MATERIALS SCHEDULE

Table with columns: KEY, MANUFACTURER, PATTERN / ITEM NO, COLOR, SIZE, FINISH, APPLICATION, NOTES, CONTACT. Includes items like 03 00 00 CONCRETE, 06 41 16 PLASTIC LAMINATE ARCHITECTURAL CABINETS, 09 30 13 TILING, etc.

ALL FINISHES, SPECIFICATIONS AND COORDINATING INFORMATION ARE THE PROPERTY OF MCMILLAN PAZDAN SMITH ARCHITECTURE. THESE FINISHES AND MATERIALS SCHEDULES ARE TO BE USED ONLY WITH RESPECT TO THE PROJECT AND NOT FOR ANY OTHER PROJECT. ANY REUSE OF THESE FINISHES AND MATERIALS SCHEDULES FOR ANY OTHER PROJECT WITHOUT THE WRITTEN PERMISSION OF MCMILLAN PAZDAN SMITH ARCHITECTURE IS STRICTLY PROHIBITED. THE USER ASSUMES ALL LIABILITY FOR ANY AND ALL DAMAGES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING FROM ANY SUCH REUSE. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES. THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AUTHORITIES.

ROOM FINISH SCHEDULE

Table with columns: ROOM NO., ROOM NAME, FLOOR (FINISH, BASE), WALLS (N, E, S, W), CEILING (MATERIAL, FINISH), MILLWORK (COUNTERTOPS, CABINETS), COMMENTS. Includes rooms like 100 N VESTIBULE, 101 CIRCULATION, 102 COFFEE / BOOK SALE, etc.

GENERAL FINISH NOTES

- A. ALL FINISHES ARE BASED ON PLAN NORTH.
B. SEE 'FINISHES AND MATERIALS SCHEDULE' FOR FINISH MATERIAL INFORMATION AND 'ROOM FINISH SCHEDULE' FOR SECTIONS. REFER TO FINISH PLANS FOR EXTENT OF FLOOR AND WALL FINISH ACCENT LOCATIONS AND PATTERNS.
C. CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY EXPOSED SURFACE NOT HAVING A FINISH SPECIFIED BEFORE STARTING CONSTRUCTION.
D. ALL ITEMS EXPOSED TO VIEW SHALL BE PAINTED OR STAINED UNLESS PREFINISHED BY MANUFACTURER OR UNO.
E. INSTALLATION OF FINISHES SHALL COMPLY WITH MANUFACTURERS' INSTALLATION SPECIFICATION REQUIREMENTS.
F. PRODUCTS INDICATED ARE BASIS OF DESIGN. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION PER PRODUCT TYPE INDICATED.
G. CONTRACTOR IS RESPONSIBLE FOR CHECKING LEAD TIMES ON ALL FINISHES AS TO NOT DELAY WORK OR WORK OF OTHER TRADES.
H. CONTRACTOR TO PROVIDE MINIMUM 3% ATTIC STOCK OF ALL MATERIALS TO OWNER. MATERIAL TO BE PROVIDED IN UNOPENED BOXES.
I. REFER TO RCP FOR CEILING TYPES AND EXTENTS. REF. CEILING COLUMN IN ROOM FINISH SCHEDULE FOR APPLICABLE CEILING, SOFFIT, AND BULKHEAD FINISHES.
J. REF ELECTRICAL INFORMATION FOR LIGHTING ALLOWANCES AND TYPES TO BE INCLUDED.
K. CAULK AT BASE OF DOOR FRAME BETWEEN FRAME AND FLOORING WITH COLOR MATCHED CAULK TO MATCH DOOR FRAME COLOR, TYP ALL LOCATIONS, UNO.
L. MILLWORK: ALL EXPOSED SURFACE OF MILLWORK TO BE COVERED WITH LAMINATE, UNO. NO MELAMINE OR UNFINISHED SURFACE WILL BE ACCEPTED. ALL WOOD GRAIN FINISHES SHALL BE INSTALLED WITH GRAINING RUNNING VERTICALLY, UNO. ALL MILLWORK TOE KICKS TO RECEIVE RESILIENT BASE, UNO. REF ELEVATIONS AND SECTIONS FOR NOTED EXCEPTIONS.



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PROJECT ARCHITECT: AMG
DRAWN BY: AKH

SHEET TITLE: FINISH SCHEDULES / LEGENDS

SHEET NO. PROJ. NO. 023432

ID800

WATER HEATER SCHEDULE										
MARK	TYPE	SERVICE	STORAGE CAPACITY (GAL)	RECOVERY @ 90 F RISE (GPH)	ELECTRICAL HEATER		GAS HEATER		BASIS OF DESIGN	NOTES
					ELEMENT KW	NUMBER OF ELEMENTS	INPUT BTUH	EFFICIENCY		
WH-1	ELECTRIC TANK	RESTROOMS & SINKS	36	20	4.5	2	-	0.92	A.O. SMITH DEL-30	1 - 5

NOTES:

- PROVIDE T&P RELIEF VALVE AND VACUUM RELIEF VALVE.
- PROVIDE GATEBALL VALVES WITH UNIONS AND DI-ELECTRIC FITTINGS ON WATER INLET AND OUTLET.
- ALL WATER HEATERS MUST COMPLY WITH CURRENT NAECA EFFICIENCY STANDARDS.
- ALL DRAIN PANS INSTALLED IN RETURN AIR PLENUMS SHALL BE METALLIC.
- PROVIDE EXPANSION TANK SIZED PER THE WATER HEATER MANUFACTURER'S RECOMMENDATION.

FLOW TEST DATA SCHEDULE	
UPON AWARD OF THE CONTRACT, THE FIRE PROTECTION (AND OR PLUMBING CONTRACTOR) SHALL PERFORM A FLOW TEST OF THE TWO HYDRANTS NEAREST THE SITE AND FORWARD THE TEST DATA TO THE ENGINEER AND ARCHITECT OF RECORD. THE FOLLOWING WATER PRESSURE FLOW DATA WAS RECEIVED FROM:	
STATIC PRESSURE:	60 PSI
RESIDUAL PRESSURE:	48 PSI
FLOW:	1060 GPM
FLOW HYDRANT ID:	LUCY ST & COVINGTON ST
RESIDUAL HYDRANT ID:	LUCY ST & CHURCH ST
DATE OF THE TEST:	03-21-2024
TIME OF DAY OF THE TEST:	-

RECIRCULATION PUMP SCHEDULE						
MARK	TYPE	MOTOR POWER (HP)	GPM	PRESSURE F.T. HD.	BASIS OF DESIGN	NOTES
RP-1	REMOTE RESTROOMS	1/25	8	15	TACO SERIES 008	-

NOTES:
N/A

BRANCHING PIPING CHART SIZING									
PIPE SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	4"
GPM	3	8	17	28	44	77	119	170	299
FU - FV			6	11	36	141	358	698	1765
FU - FT	2	6	20	46	103	261	474	749	1765

PLUMBING SHEET LIST	
P001	SCHEDULES, LEGENDS & NOTES - PLUMBING
P002	DETAILS - PLUMBING
P110	OVERALL FLOOR PLAN - PLUMBING
P310	ROOF PLAN - PLUMBING

FIRE PROTECTION GENERAL NOTES	
1.	ALL SPRINKLERS IN SPACES VISIBLE TO PUBLIC VIEW SHALL BE CONCEALED TYPE AND LOCATED SYMMETRICALLY IN RELATION TO CEILING DESIGN ELEMENTS, LIGHTING FIXTURES, SPEAKERS, DIFFUSERS, ETC. ALL CEILING COMPONENTS ARE TO BE INDICATED ON THE SUBMITTAL DRAWINGS AS NOTED PREVIOUSLY TO INSURE COORDINATION WITH ALL CEILING ELEMENTS AND DEVICES. PIPING TO SPRINKLERS IN THESE AREAS IS TO BE PROVIDED WITH RETURN BENDS IF REQUIRED TO ALLOW FOR EXACT PLACEMENT.
2.	SPRINKLER HEADS INSTALLED IN LAY IN ACOUSTICAL TILE CEILINGS SHALL BE CONCEALED TYPE AND CENTERED IN THE CEILING TILES OR INSTALLED ON QUARTER POINTS OF THE FOUR FOOT DIMENSIONS OF 2' X 4' TILES.
3.	ALL FIRE PROTECTION WORK SHALL COMPLY WITH ALL APPLICABLE SECTIONS OF NFPA STANDARDS AND SHALL MEET THE APPROVAL OF THE OWNERS INSURANCE UNDERWRITER, AND LOCAL AUTHORITIES HAVING JURISDICTION.
4.	SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE ARCHITECT PRIOR TO ORDERING, PURCHASING, OR FABRICATING ANY FIRE PROTECTION EQUIPMENT. SHOP DRAWINGS SHALL INCLUDE: SPRINKLER DRAWINGS AND CALCULATIONS BEARING THE SEAL OF A REGISTERED PROFESSIONAL ENGINEER OR EQUIVALENT CONTRACTORS FIRE SPRINKLER CERTIFICATE SEAL AND APPROVAL STAMP OF LOCAL CODE AUTHORITY; SPRINKLER PIPING; SPRINKLER HEADS; HOSE RACKS; HYDRANTS AND VALVES; PUMPS, CONTROLLERS AND ACCESSORIES; TANKS AND ACCESSORIES. SHOP DRAWINGS SHALL BE SUBMITTED TO AND APPROVED BY THE OWNERS INSURANCE UNDERWRITER PRIOR TO BEING SUBMITTED TO THE ARCHITECT.
5.	CONTRACTOR SHALL COORDINATE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL FIRE PROTECTION EQUIPMENT WITH THE ELECTRICAL DRAWINGS AND SHALL FURNISH EQUIPMENT WIRED FOR THE VOLTAGES SHOWN THEREIN.
6.	ALL FIRE PROTECTION EQUIPMENT AND SYSTEMS SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE.
7.	ALL PIPING ABOVE GRADE SHALL BE SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE. PIPING HUNG FROM JOISTS SHALL BE HUNG FROM THE TOP CHORDS OF THE JOISTS.
8.	ALL SPRINKLER SYSTEM SHALL BE DESIGNED TO THE AVAILABLE CITY WATER SUPPLY. CONTRACTOR SHALL HAVE CURRENT FLOW TEST PERFORMED PRIOR TO DESIGN.
9.	ALL SPRINKLER SYSTEM RISERS SHALL INCLUDE AN ALARM CHECK VALVE, WATER MOTOR GONG, FLOW SWITCH, ETC.
10.	HYDRAULIC CALCULATIONS SHALL INCLUDE AN ALLOWANCE FOR INSIDE AND OUTSIDE HOSE STREAMS.
11.	ALL MAJOR VALVES SHALL HAVE U.L. LISTED SUPERVISORY SWITCHES COMPATIBLE WITH THE OWNERS CENTRAL ALARM SYSTEM. WIRING OF THE SWITCHES SHALL BE BY OTHERS.
12.	GROOVED (VICTAULIC) COUPLINGS SHALL NOT BE USED OVER OR NEAR ELECTRICAL SWITCHGEAR, PANELS, TRANSFORMERS, ETC.
13.	ALL SPRINKLER PIPING SHALL BE ROUTED TO MAINTAIN MINIMUM CLEAR HEIGHTS INDICATED ON ARCHITECTURAL DRAWINGS.

PLUMBING ABBREVIATIONS			
A/C	ABOVE CEILING	LWT	LEAVING WATER TEMPERATURE
AG	ABOVE GRADE	MAX	MAXIMUM
AHU	AIR HANDLING UNIT	MBH	ONE THOUSAND BTU'S PER HOUR
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	MHP	MOTOR HORSEPOWER
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BLDG	BUILDING	MOD	MOTOR OPERATED DAMPER
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA, NORMALLY CLOSED
CFCT	CONTRACTOR FURNISHED AND INSTALLED	NTS	NOT TO CONTRACT
CFM	CUBIC FEET PER MINUTE	OA	OUTSIDE AIR
CLNG	CEILING	OC	ON CENTER
CO	CLEANOUT	OFCT	OWNER FURNISHED, CONTRACTOR INSTALLED
COND	CONDENSATE	PC	PUMPED CONDENSATE
CRD	CEILING RADIATION DAMPER	PD	PRESSURE DROP
CW	CONDENSER WATER	PH	PHASE
DB	DEGREE	PIU	POWERED INDUCTION UNIT
DEG	DEGREE	RA	RETURN AIR
DIA	DIAMETER	(R)	RELOCATED (EQUIPMENT)
DN	DOWN	RPM	REVOLUTIONS PER MINUTE
DWG	DRAWING	RTU	ROOFTOP UNIT
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	SA	SUPPLY AIR
(E)	EXISTING	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EA	EXHAUST AIR OR EACH (AS APPLICABLE)	SL	SOUND LINING
EAT	ENTERING AIR TEMPERATURE	SMACNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
EER	ENERGY EFFICIENCY RATING	SP	STATIC PRESSURE
EF	EXHAUST FAN	SS	STAINLESS STEEL
(ER)	EXISTING TO BE REMOVED	TYP	TYPICAL
(ERR)	EXISTING TO BE REMOVED AND RELOCATED	UH	UNIT HEATER
ESP	EXTERNAL STATIC PRESSURE	UL	UNDERWRITER'S LABORATORIES
F	DEGREES FAHRENHEIT	UNON	UNLESS OTHERWISE NOTED
FCU	FAN COIL UNIT	V	VENT OR VOLTS (AS APPLICABLE)
FFE	FINISHED FLOOR ELEVATION	VAV	VARIABLE AIR VOLUME
FFM	FEET PER MINUTE	VD	VOLUME DAMPER
FT	FOOT OR FEET	VFD	VARIABLE FREQUENCY DRIVE
GA	GAUGE	VIF	VERIFY IN FIELD
GF	GAS FURNACE	VTR	VENT THROUGH ROOF
GPM	GALLONS PER MINUTE	W	WASTE
HAF	HIGH AS POSSIBLE	W/	WITH
HP	HORSEPOWER	WB	WET BULB
HW	HOT WATER	WG	WATER GAUGE
HZ	HERTZ	WPD	WATER PRESSURE DROP
IN	INCH OR INCHES	Ø	DIAMETER
KW	KILOWATT		
LAT	LEAVING AIR TEMPERATURE		
LBS	POUNDS		

FIRE PROTECTION REQUIREMENTS	
1.	SPRINKLER SYSTEM SHALL BE INSTALLED IN STRICT CONFORMITY WITH ALL LATEST REQUIREMENTS OF THE STATE BUILDING CODE, THE LOCAL FIRE DEPARTMENT, AND THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
2.	PROVIDE A COMPLETE FIRE PROTECTION SYSTEM HYDRAULICALLY CALCULATED IN COMPLIANCE WITH THE LATEST ADOPTED EDITION OF NFPA 12, 13, 14, 20, 24, 70, 101 AND THE REQUIREMENTS OF ALL AUTHORITIES HAVING JURISDICTION.
3.	PROVIDE A COMPLETE 100% FULLY SPRINKLED, HYDRAULICALLY CALCULATED, AUTOMATIC WET PIPE SPRINKLER SYSTEM THROUGHOUT THE ENTIRE BUILDING.
4.	SPRINKLER PIPING SHALL BE SLOPED TO DRAIN BACK TO THE MAIN. PROVIDE DRAIN VALVES AND CAPS WITH HOSE END THREADS FOR TRAPPED PIPING.
5.	FIRE PROTECTION PIPING AND EQUIPMENT SHALL BE RATED FOR THE EXPECTED MAXIMUM WORKING PRESSURE.
6.	PROVIDE PRESSURE REGULATING VALVES AND SPRINKLER FLOOR CONTROL ASSEMBLIES AND FIRE DEPARTMENT HOSE CONNECTIONS WHERE PRESSURES EXCEED 175 PSIG. PRESSURE REDUCING TYPE VALVES SHALL ONLY BE PERMITTED WHERE SOLELY REQUIRED BY THE AUTHORITY HAVING JURISDICTION.
7.	ALL FIRE DEPARTMENT CONNECTION THREADS SHALL CONFORM TO THE LOCAL FIRE DEPARTMENT STANDARDS.
8.	ALL FLOOR CONTROL ASSEMBLIES LOCATED ABOVE FINISHED CEILINGS SHALL BE ACCESSIBLE AND HAVE A NOTIFICATION MARKING TAB AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION FOR INSPECTION VERIFICATIONS.
9.	ALL ELECTRICAL ROOMS AND TELECOMMUNICATIONS ROOMS SHALL BE PROVIDED WITH SPRINKLER FIRE PROTECTION PER NFPA 13.
10.	ELEVATOR MACHINE ROOMS, TOP AND BOTTOM OF ELEVATOR SHAFTS SHALL BE PROVIDED WITH SPRINKLER FIRE PROTECTION PER NFPA 13, ANSI 17.1, AND LOCAL REQUIREMENTS.
11.	STAIRWELLS SHALL BE PROVIDED WITH SPRINKLER COVERAGE IN ACCORDANCE WITH NFPA 13 INCLUDING COVERAGE AT THE TOP AND BOTTOM OF STAIRWELLS AND BELOW THE LOWEST LANDING.
12.	SPRINKLER CONTROL VALVES SHALL BE 175 PSI, UL APPROVED, OS&Y GATE VALVES.
13.	CONTROL VALVE LOCATIONS SHALL BE AS INDICATED BY APPROVED ARROWS AND SIGNS.
14.	CONTROL VALVES MORE THAN 7'-0" ABOVE THE FLOOR SHALL BE ACCESSIBLE BY MEANS OF PERMANENT IRON LADDERS AS PER NFPA NO. 13.
15.	SPRINKLER PIPE SYSTEM SHALL BE MARKED AND IDENTIFIED IN ACCORDANCE WITH NFPA NO. 13.
16.	CONTROL VALVES SHALL BE SEALED IN OPEN POSITION AS PER NFPA NO. 13.
17.	ALARM-ACTUATING DEVICES SHALL BE FIRE DEPARTMENT AND UL APPROVED TYPE AS PER NFPA NO. 13.
18.	ALARM-ACTUATING DEVICES SHALL BE CONNECTED TO SUPERVISED ALARM SYSTEM IN ACCORDANCE WITH NFPA NO. 13.
19.	INSPECTOR'S TEST CONNECTION SHALL BE IN ACCORDANCE WITH NFPA NO. 13.
20.	PIPE SHALL BE PROTECTED AGAINST FREEZING IN ACCORDANCE WITH NFPA NO. 13.
21.	PIPE HANGERS SHALL BE IN ACCORDANCE WITH NFPA NO. 13.
22.	TEST OF SYSTEM SHALL BE IN ACCORDANCE WITH NFPA NO. 13.
23.	SPARE SPRINKLERS SHALL BE STOCKED IN ACCORDANCE WITH NFPA NO. 13.
24.	WATER LINES SHALL BE INSTALLED SO AS TO NOT INTERFERE WITH THE OPERATION OF EQUIPMENT OR OTHER APPURTENANCES.
25.	INSPECTOR'S TEST FOR THE DRY PIPE SYSTEM MUST BE AT THE MOST REMOTE SPRINKLER PIPE.
26.	CONTRACTOR SHALL PERFORM ALL EXCAVATION WITH CAUTION SO AS TO NOT DAMAGE OR DISRUPT SERVICE OF EXISTING SEWERS, GAS MAINS, ELECTRICAL CABLES OR OTHER SUBSURFACE UTILITIES OR APPURTENANCES.
27.	PROVIDE HEAT TRACE AND INSULATION, 5 W/IF, FOR FREEZE PROTECTION FOR WET PIPE DISTRIBUTION PIPING IN UNCONDITIONED AREAS.
28.	PROVIDE DRY SPRINKLER HEADS WITHIN TRASH CHUTES, AT THE TOP SERVICE OPENING AND AT A MINIMUM OF EVERY OTHER FLOOR, IN COMPLIANCE WITH NFPA 82.5.2.6.

PLUMBING FIXTURE SCHEDULE						
MARK	FIXTURE DESCRIPTION	FIXTURE CONNECTIONS				REMARKS
		CW	HW	W	V	
WATER CLOSETS						
WC-1	FLOOR MOUNTED, FLUSH VALVE WATER CLOSET	1-1/2"	-	3"	1-1/2"	1,2,4
WC-1A	FLOOR MOUNTED, FLUSH VALVE WATER CLOSET, ADA	1-1/2"	-	3"	2"	1,2,4
LAVATORIES						
L-1	LAVATORY	1/2"	1/2"	2"	1-1/2"	1,2,3,5,8
L-1A	LAVATORY ADA	1/2"	1/2"	2"	1-1/2"	1,2,3,5,8
URINALS						
U-1	URINAL	1"	-	2"	1-1/2"	1,2
U-1A	URINAL ADA	1"	-	2"	1-1/2"	1,2
SINKS						
KS-1	ONE COMPARTMENT SINK	1/2"	1/2"	2"	1-1/2"	1,2,3,5,8,9
MS-1	MOP SINK	3/4"	3/4"	3"	1-1/2"	1,2,3,5
DRAINS						
FD-1	FLOOR DRAIN	-	-	2"	-	-
RD-1	ROOF DRAIN	-	-	3"	-	-
OD-1	OVERFLOW ROOF DRAIN	-	-	3"	-	-
RD-2	ROOF DRAIN	-	-	4"	-	-
OD-2	OVERFLOW ROOF DRAIN	-	-	4"	-	-
MISC.						
IMB-1	ICE MAKER BOX	1/2"	-	-	-	1,2,4
FPWH-1	FREEZE PROOF WALL HYDRANT	3/4"	-	-	-	1
FPYH-1	FREEZE PROOF YARD HYDRANT	3/4"	-	-	-	1
DF-1	DRINKING FOUNTAIN	1/2"	-	2"	1-1/4"	1,7
REMARKS:						
<ol style="list-style-type: none"> CONNECTIONS TO PLUMBING FIXTURE SHALL BE PROVIDED WITH INDIVIDUAL ISOLATION VALVES. ALL ISOLATION VALVES SHALL BE QUARTER TURN BALL TYPE VALVES. CONNECTIONS SHALL BE BRAIDED LINES WITH SCREW END TYPE VALVES. ONLY WATER CLOSETS WITH 4" SANITARY CONNECTION ARE ACCEPTABLE. NO SUBSTITUTIONS. HOT WATER SUPPLY TEMPERATURE TO FIXTURE SHALL BE 115 - 120F. PROVIDE TRAP GUARD. PROVIDE BACKFLOW PREVENTOR, WATTS MODEL 98D OR APPROVED EQUAL. PROVIDE TEMPERATURE LIMITING DEVICE AT FIXTURE PER ASSE 1070. PROVIDE DISHWASHER CONNECTION TO WASTE PIPE. 						
NOTES APPLICABLE TO ALL FIXTURES:						
<ol style="list-style-type: none"> ALL PLUMBING FIXTURE SHALL BE SUBMITTED TO THE OWNER AND DESIGN TEAM FOR APPROVAL. EXACT LOCATION OF FIXTURE SHALL BE LOCATED ON ARCHITECTURAL DRAWINGS. ROUGH IN FIXTURE PER MANUFACTURER'S BFFS REQUIREMENTS, PROVIDE ALL REQUIRED COMPONENTS REQUIRED PER MANUFACTURER, PLUMBING CODE, AND CONTRACT DOCUMENTS AND MAKE FINAL CONNECTIONS TO FIXTURE. 						

WC-1: WATER CLOSET - PUBLIC AMERICA STANDARD MADERA FLOWISE FLOOR MOUNTED, #2234.001, WHITE ELONGATED RIM AND 1-1/2" TOP SPUD, DIRECT-FED SIPHON JET ACTION, VITREOUS CHINA, OPEN FRONT SEAT JONES STEPHENS C106CHPM-00, 16-1/2" HEIGHT, COMFORT SEAT C106CHPM, FLUSH VALVE MOEN #8311, 1.28GPF, EXPOSED, BATTERY POWERED, SENSOR OPERATED.
WC-1A: ADA WATER CLOSET - PUBLIC AMERICA STANDARD MADERA FLOWISE FLOOR MOUNTED, #3043.001, WHITE ELONGATED RIM AND 1-1/2" TOP SPUD, DIRECT-FED SIPHON JET ACTION, VITREOUS CHINA, OPEN FRONT SEAT JONES STEPHENS C106CHPM-00, 16-1/2" HEIGHT, MUST MEET A.D.A. CODE, COMFORT SEAT C106CHPM, FLUSH VALVE MOEN #8311, 1.28GPF, EXPOSED, BATTERY POWERED, SENSOR OPERATED.
L-1: LAVATORY - PUBLIC KOHLER MORNINGSIDES K-12638 WALL-MOUNT SINK ADA ADA HEIGHT, FAUCET SYMMONS SLS3512PP MATTE BLACK FINISH, 0.5GPM, PROVIDE WITH BELOW DECK MIXING VALVE ZURN MODEL ZW3870XLT.
L-1A: LAVATORY ADA - PUBLIC KOHLER SOHO K-2084-N WALL-MOUNT SINK, FAUCET SYMMONS SLS3512PP MATTE BLACK FINISH, 0.5GPM, PROVIDE WITH BELOW DECK MIXING VALVE ZURN MODEL ZW3870XLT.
U-1: URINAL - PUBLIC WHITE URINAL POLISHED CHROME FLUSH VALVE.
KS-1: ONE COMPARTMENT SINK UNDERMOUNTED SINGLE BOWL, ELKAY MODEL ECTSRA25226TBG, 18 GAUGE TYPE 304 STAINLESS STEEL, OVERALL DIMENSIONS 25"X22"X6", BOWL DIMENSIONS 22-1/2"X22"X6". PROVIDE SINGLE HOLE CONFIGURATION. FAUCET SHALL BE KOHLER MODEL GRUE K-22972-CP WITH SINGLE LEVER HANDLE AND THREE-FUNCTION PULL-DOWN SPRAYHEAD WITH TOUCH CONTROL, 1.5GPM FLOW RATE.
MS-1:MOP SINK FIAT PRODUCTS 24"x24"x10" #MSBID2424-100 MOP BASIN, DELTA MODEL #28T9 ROUGH CHROME FAUCET.
IMB-1: ICE MACHINE BOX GUY GRAY BIM 875AB, 1/2"CW CONNECTION, FIRE RATED OPTION: WHEN BOX LOCATED IN FIRE WALL, PROVIDE GUY GRAY FRB12, 1/2"CW CONNECTION.
FD-1: FLOOR DRAIN JAY R. SMITH, MODEL 2010-B-P050 OR EQUAL ZURN, JOSAM OR WADE, 2"DRAIN, PROVIDE WITH TRAP GUARD WITH CHROME FINISH.
WCO: WALL CLEANOUT JAY R. SMITH, MODEL 9776, ROUGH FINISH STAINLESS STEEL PLUG WITH POLISHED STAINLESS STEEL COVER PLATE.
DF-1: DRINKING FOUNTAIN WALL MOUNTED, B.LEVEL DRINKING FOUNTAIN WITH BOTTLE FILLER, ELKAY MODEL EZWS-EDFP217K, NON-FILTERED, NON-REFRIGERATED, LIGHT GRAY GRANITE FINISH.
FPWH-1: FREEZE PROOF WALL HYDRANT FREEZE PROOF WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, 1/4 TURN, LOOSE KEY, JAY R. SMITH MODEL 5619.
RD/OD-1: ROOF DRAIN ZURN MODEL Z163 COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH LOW SILHOUETTE DOMES AND DOUBLE TOP-SET DECK PLATE, 1.5" DIAMETER, 3" OUTLET DRAIN SIZE.
RD/OD-2: OVERFLOW ROOF DRAIN ZURN MODEL Z163 COMBINATION MAIN ROOF AND OVERFLOW DRAIN WITH LOW SILHOUETTE DOMES AND DOUBLE TOP-SET DECK PLATE, 1.5" DIAMETER, 4" OUTLET DRAIN SIZE.



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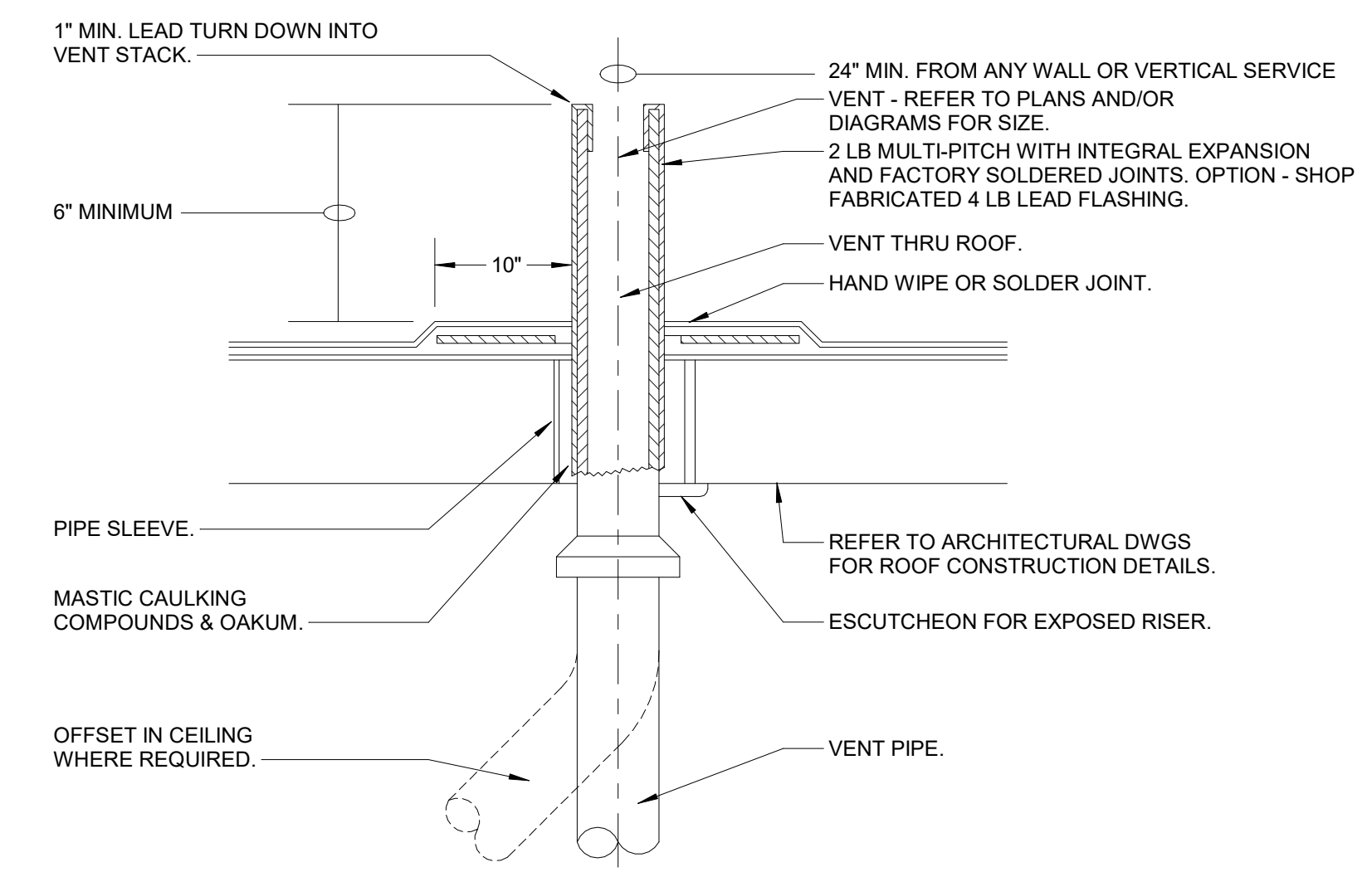
ISSUE DATE:	2024.06.28	
PHASE:	CONSTRUCTION DOCUMENTS	
SHEET ISSUE:		
NO.	DATE	DESCRIPTION
C	2024.06.28	CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE:
PROJECT ARCHITECT:
DRAWN BY: CAT

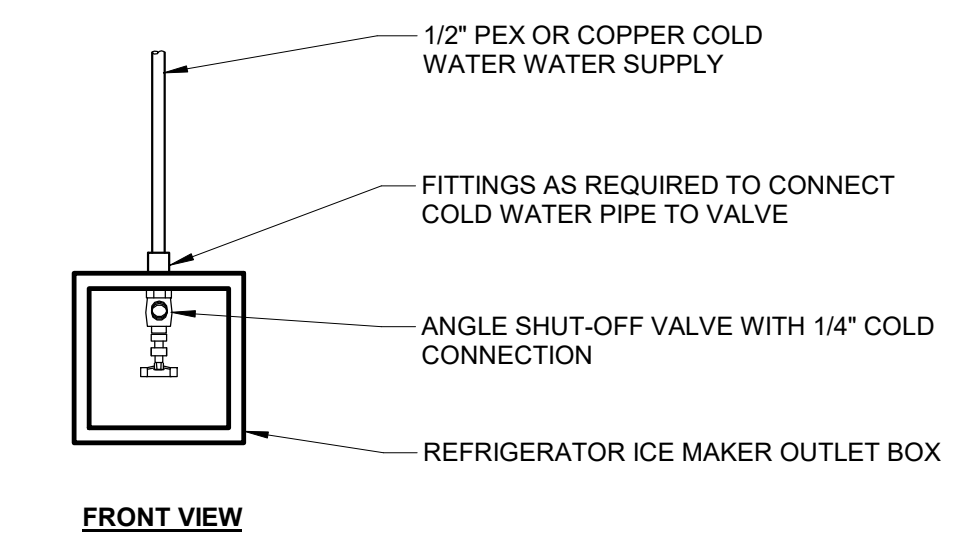
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**SCHEDULES,
LEGENDS & NOTES -
PLUMBING**

SHEET NO. PROJ. NO. 023432

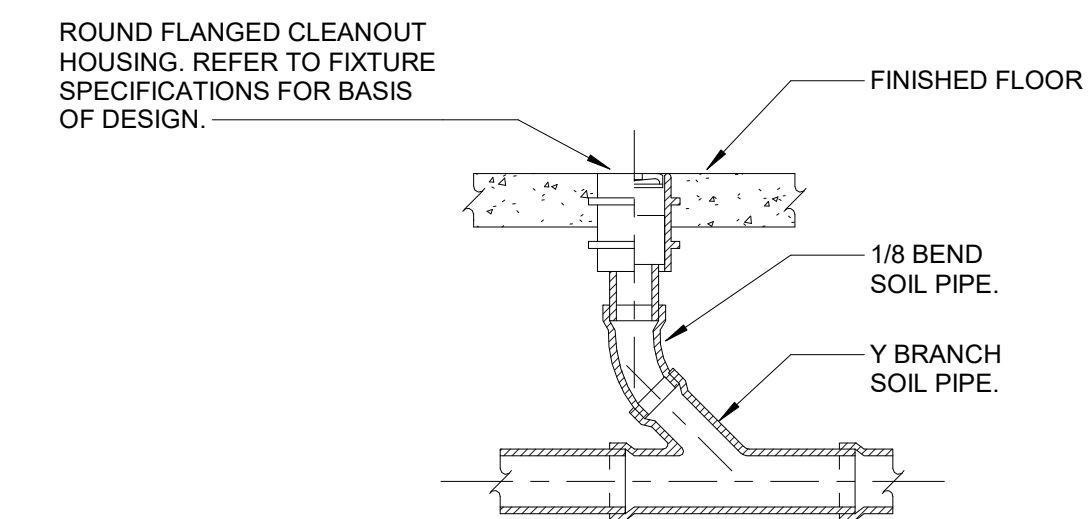
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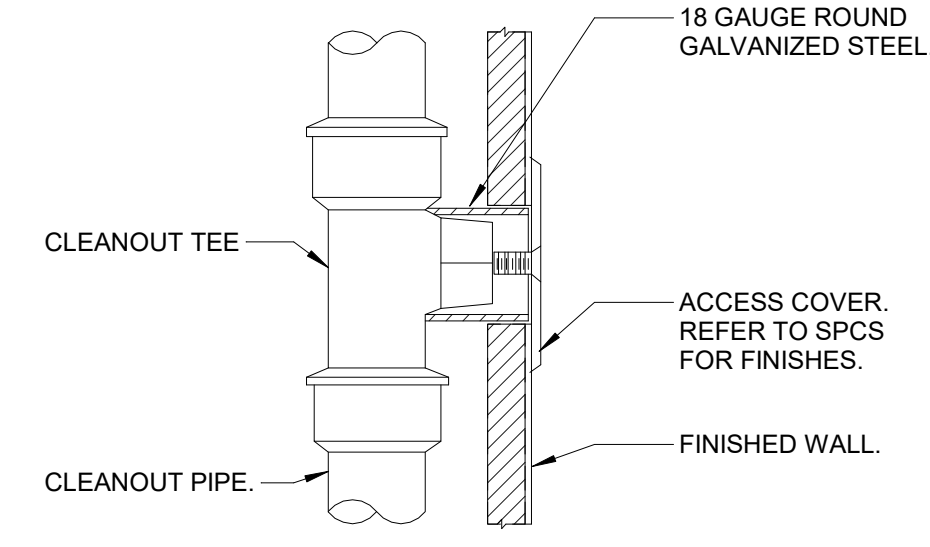
4 VENT THRU ROOF DETAIL
12" = 1'-0"



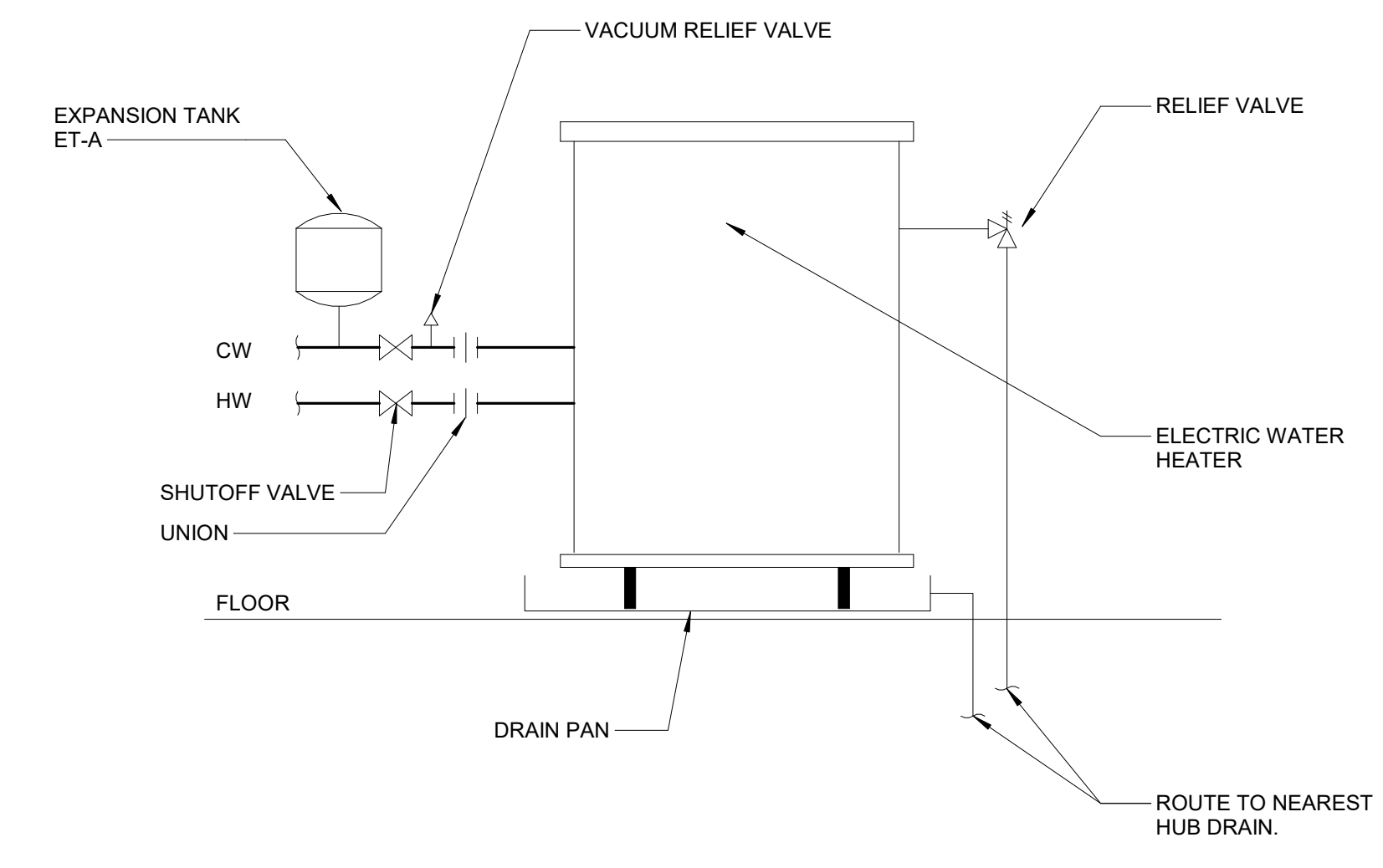
7 REFRIGERATOR ICE MAKER CONNECTION BOX
12" = 1'-0"



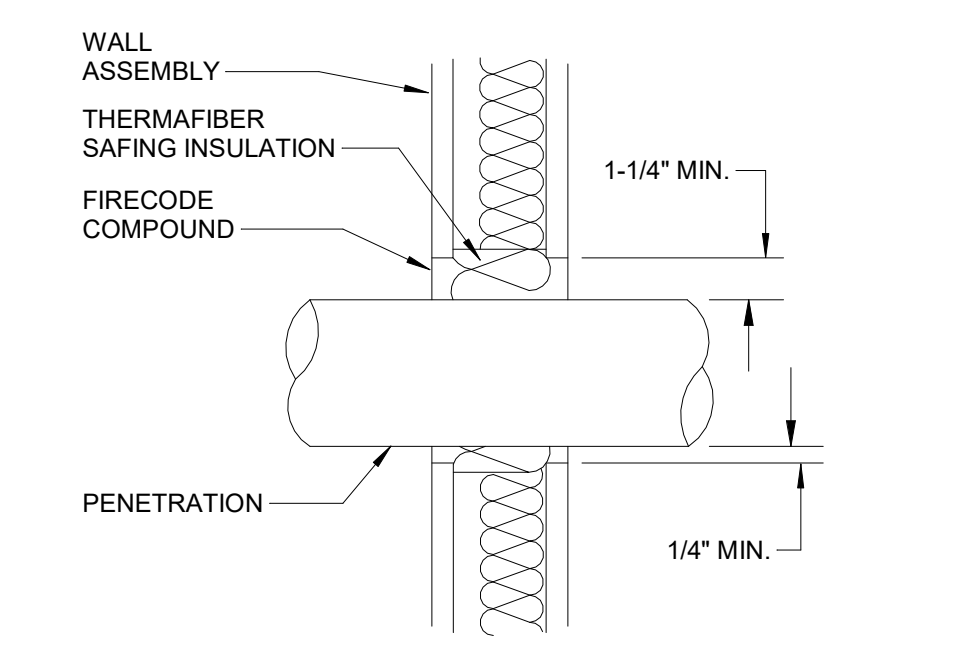
3 SANITARY CLEANOUT DETAIL
12" = 1'-0"



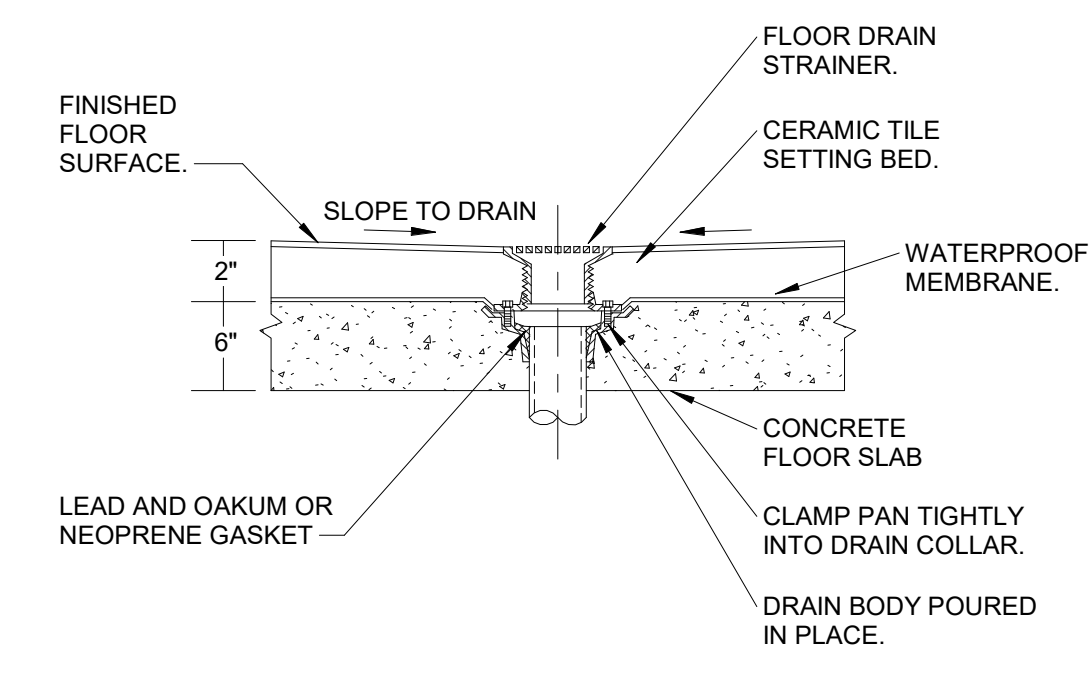
6 WALL CLEANOUT DETAIL
12" = 1'-0"



2 LOWBOY ELECTRIC WATER HEATER DETAIL
12" = 1'-0"



5 WALL ASSEMBLY PENETRATION DETAIL
12" = 1'-0"



1 FLOOR DRAIN DETAIL
12" = 1'-0"

GENERAL NOTES

1. ALL PIPING TO BE RUN AS HIGH AS POSSIBLE AND TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED.



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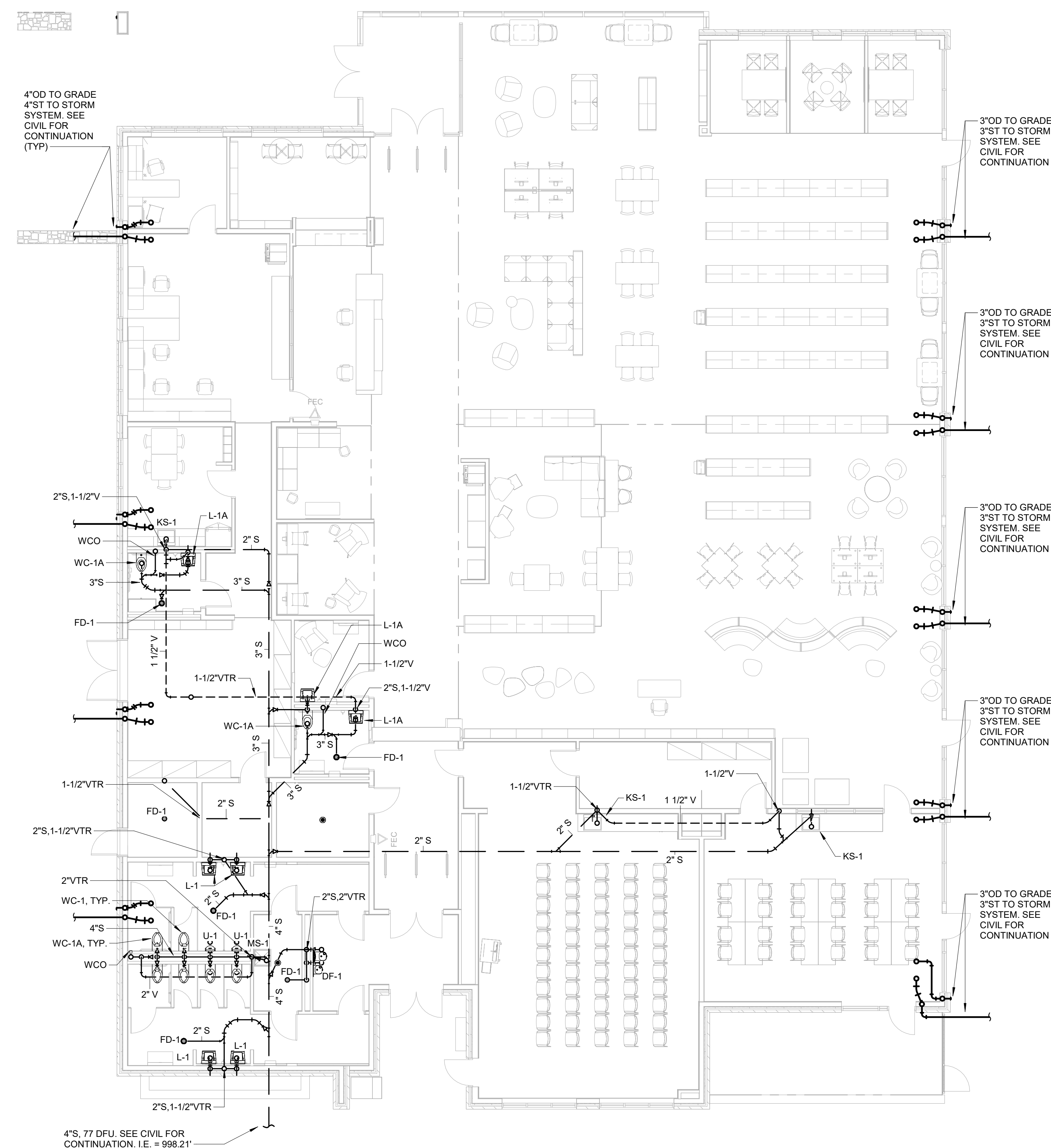
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4197 Pleasant Hill Rd, Suite 200
Duluth, GA 30096
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SEALS

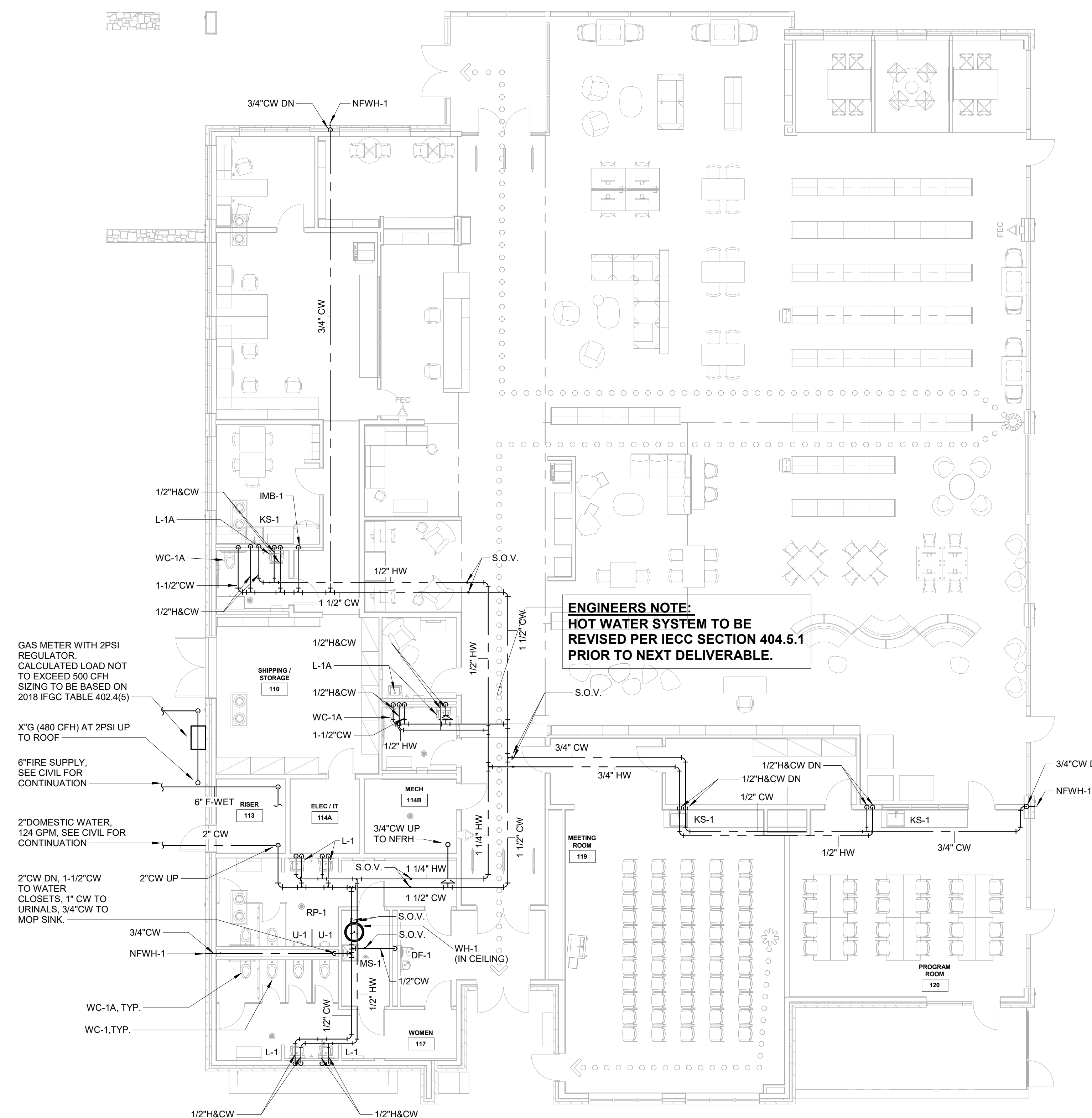
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② LEVEL 01 OVERALL FLOOR PLAN - PLUMBING - S,W&V
1/8" = 1'-0"



① LEVEL 01 OVERALL FLOOR PLAN - PLUMBING - WATER
1/8" = 1'-0"

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PRINCIPAL IN CHARGE: PROJECT ARCHITECT: DRAWN BY: CAT

SHEET TITLE:
OVERALL FLOOR PLAN - PLUMBING

SHEET NO. PROJ. NO. 023432

P110

GENERAL NOTES

1. ALL PIPING TO BE RUN AS HIGH AS POSSIBLE AND TIGHT TO UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED.

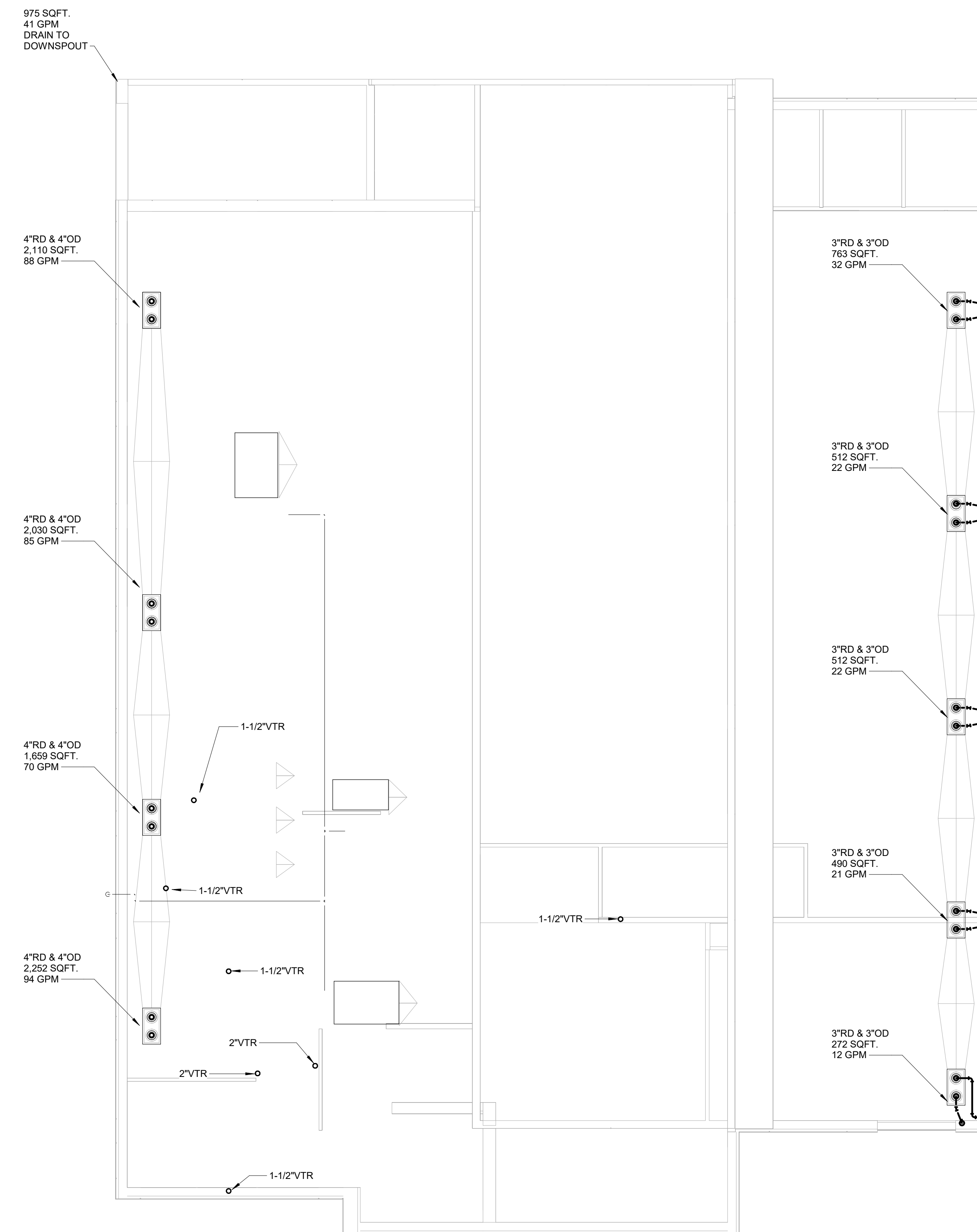


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SEALS



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

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PRINCIPAL IN CHARGE:
PROJECT ARCHITECT:
DRAWN BY: CAT

SHEET TITLE:
ROOF PLAN -
PLUMBING

SHEET NO. PROJ. NO.
023432

P310

DESIGN CONDITION

LOCATION : ATLANTA, GA
WEATHER DATA : ATLANTA HARTSFIELD-JACKSON, GA
LAT : 33.630N LONG : 84.442W
CLIMATE ZONE : 3A
SUMMER DESIGN CONDITION DRY BULB/WET BULB(0.4%) : 93.7/73.8
WINTER DESIGN CONDITION DRY BULB(99.6%) : 21.7
SUMMER DESIGN INDOOR BULB/GRH : 75/50%
WINTER DESIGN INDOOR BULB: 70

BASED ON 2021 ASHRAE HANDBOOK FUNDAMENTALS

GENERAL NOTES

DUCTWORK:

- ALL DUCTWORK DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS. INCREASE SHEET METAL FABRICATION DIMENSIONS TO ACCOUNT FOR DUCT LINER WHERE INDICATED ON PLANS.
- SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR DUCT SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL CONFORMING WITH ASTM A90, A525, AND A527 RATINGS AND A G90 COATING DESIGNATION. ALL DUCTWORK SHALL BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE LATEST VERSION OF SMACNA'S HVAC DUCT CONSTRUCTION STANDARDS METAL AND FLEXIBLE. FIBERGLASS DUCT BOARD SHALL NOT BE USED.
- LOW PRESSURE DUCTWORK SHALL BE CONSTRUCTED TO 2 IN. W.G. PRESSURE CLASSIFICATIONS, WITH SEAL 'C' AND A LEAKAGE RATE OF 12 FOR RECTANGULAR DUCTWORK.
- MITERED AND RADIUS ELBOWS SHALL HAVE A MINIMUM 1.5 RADIUS, UNLESS NOTED OTHERWISE.
- PROVIDE SINGLE THICKNESS TURNING VANES FOR ALL MITERED TURNS, ELBOWS, AND RADIUS ELBOWS LESS THAN 1.5 RADIUS.
- DUCTWORK SEAMS AND JOINTS SHALL BE SEALED WITH SOLVENT BASED SEAM AND JOINT SEALANT. FLANGED JOINTS SHALL BE SEALED WITH MASTIC, ONE PART, ACID-CURING, ELASTOMERIC JOINT SEALANT COMPLIANT WITH ASTM C20. DUCT TAPE SHALL NOT BE USED.
- ALL SUPPLY AIR AND OUTDOOR AIR DUCT BRANCH DUCTS SHALL INCLUDE MANUAL BALANCING DAMPERS AT CONNECTION TO MAIN DUCTS. IF MANUAL VOLUME DAMPERS ARE INSTALLED IN INACCESSIBLE CEILING OR SIMILAR SPACE, PROVIDE REMOTE DAMPER CONTROLLER AND VOLUME DAMPER, YOUNG REGULATOR BOWDEN CABLE CONTROLLER 270-894C CONCEALED CLIP AND COVER, DAMPER MODEL 830A-CC, OR EQUAL.
- SPIN-IN FITTINGS SHALL BE 26 GAUGE GALVANIZED G90 SHEET METAL WITH INTEGRAL DAMPER AND SCOOP.
- FLEXIBLE DUCTWORK SHALL BE UL 181 CLASS 1 RATED, FLEXMASTER TYPE 6M OR APPROVED EQUAL. FLEXIBLE DUCTWORK SHALL NOT BE USED IN NEGATIVE PRESSURE APPLICATIONS.
- ACCESS DOORS SHALL BE DOUBLE WALL, DUCT MOUNTED, ROUND WITH CAM LOCKS AND CABLES, FABRICATED OF GALVANIZED SHEET METAL WITH INSULATION FILL AND THICKNESS FOR CLASS 1 DUCTWORK.
- INSULATE ALL SUPPLY AIR AND OUTDOOR AIR DUCTWORK AND RETURN AIR DUCTWORK WITH INTEGRAL VAPOR BARRIER. INSULATION SHALL BE MIN. R-8 WHEN INSTALLED. INSULATION SHALL BE APPLIED WITH UNBROKEN VAPOR SEALS. THE INSULATION SHALL BE CONTINUOUS THROUGH WALL OPENINGS AND SLEEVES. ALL DUCT HANGARS SHALL BE INSTALLED OUTSIDE OF DUCT INSULATION. ALL APPURTENANCES CONNECTED TO COLD SURFACES SHALL BE INSULATED TO PREVENT CONDENSATION.
- SUPPLY AND RETURN DUCTWORK LOCATED EXTERIOR TO THE BUILDING ENVELOPE SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL (G90 MIN.) WITH ALL SEAMS CAULKED AND SEALED WEATHERTIGHT AND COATED WITH A RUST PREVENTIVE COATING OVER THE ENTIRE DUCT SURFACE. DUCTWORK TO BE SLOPED MIN. 1/4" PER FOOT. PROVIDE MIN. R-8, (2" THICK) RIGID INSULATION BOARD, JOHNS MANVILLE 800 SERIES SPIN-GLAS OR EQUAL. PROVIDE WEATHER-PROOF CLADDING JACKET ON EXTERIOR OF ASSEMBLY, JOHN MANVILLE ALUMAGUARD OR EQUAL.

REFRIGERANT PIPING:

- REFRIGERANT PIPING TO BE TYPE ACR COPPER TUBING CONFORMING TO ASTM B280.
- REFRIGERANT SUCTION LINES TO BE SLOPED 1/8" PER 10 LINEAR FEET OF HORIZONTAL RUN TOWARD COMPRESSOR WITH NO LONG TRAPS OR DEAD ENDS THAT MAY CAUSE OIL SEPARATION.
- REFRIGERANT PIPING TO BE SIZED AND INSTALLED TO MEET WITH ALL MANUFACTURER REQUIREMENTS FOR VERTICAL AND TOTAL MAXIMUM LENGTH REQUIREMENTS.
- REFRIGERANT CHARGING VALVE CONNECTIONS TO BE PROVIDED IN LIQUID LINE BETWEEN RECEIVER SHUTOFF VALVE AND EXPANSION VALVE.
- REFRIGERANT LINES TO BE INSULATED TO MINIMUM ENERGY CODE REQUIREMENTS. INSULATION INSTALLED ON EXTERIOR OF THE BUILDING SHALL BE COVERED WITH AN ASPHALT SATURATED VAPOR BARRIER AND PAINTED WITH TWO (2) COATS OF ASPHALTIC WATER PROOFING COMPOUND.

CONDENSATE:

- CONDENSATE DRAIN PIPING SHALL BE SLOPED AT A MINIMUM 1/8" PER LINEAR FOOT OF HORIZONTAL RUN. CONDENSATE LINES SHALL INCLUDE TRAP WITH CLEANOUT PLUG AT EACH EQUIPMENT CONDENSATE CONNECTION.
- CONDENSATE PIPING SHALL BE INSULATED WITH 1/2" ARMAFLEX INSULATION OR APPROVED EQUAL.
- AIR HANDLING UNITS WITH COOLING COILS SHALL BE PROVIDED WITH A WATER DETECTION DEVICE, CONFORMING WITH UL 508, INSTALLED IN EITHER THE UNIT PRIMARY DRAIN PAN OR OVERFLOW DRAIN LINE CONNECTION. WATER LEVEL DETECTION DEVICES SHALL BE WIRED TO SHUTDOWN AIR HANDLING UNIT.

HANGERS AND SUPPORTS:

- MAXIMUM PIPE HANGER SPACING SHALL BE IN ACCORDANCE WITH ANSI/MSS-58.
- DUCTWORK SHALL BE SUPPORTED IN ACCORDANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARD - METAL AND FLEXIBLE. MAXIMUM SPACING OF DUCTWORK HANGERS SHALL BE 8'-0" O.C. FOR HORIZONTAL RUNS AND 10'-0" FOR VERTICAL RUNS.

CONTROLS:

- PROVIDE LOW VOLTAGE CONTROL WIRING, AS NEEDED, FOR ALL MECHANICAL SYSTEMS. THERMOSTATS TO BE ADA AND ENERGY CODE COMPLIANT, 7-DAY PROGRAMMABLE TYPE. PROVIDE VENTED, LOCKABLE COVER FOR THERMOSTATS LOCATED IN PUBLIC AREAS.
- INSTALL THERMOSTATS/SENSORS AT 48" ABOVE THE FINISHED FLOOR UNLESS OTHERWISE STATED, AND CAREFULLY COORDINATE ALL LOCATIONS WITH INTERIOR FINISHES AND ELEVATIONS, AS APPLICABLE.

GENERAL:

- CONTRACTOR SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES, CODES, AMENDMENTS, AND REGULATIONS OF ALL GOVERNMENTAL AUTHORITIES HAVING JURISDICTION AND THE NATIONAL FIRE PROTECTION ASSOCIATION. ALL MECHANICAL EQUIPMENT, COMPONENTS, INSTALLATIONS, AND CONTROLS TO COMPLY WITH THE FOLLOWING:
 - THE SUBMISSION OF A BID OR PROPOSAL WILL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR IS FAMILIAR WITH THE PLANS AND BUILDING SITE. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS OR LABOR DUE TO DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED, UNLESS THESE DIFFICULTIES COULD NOT HAVE BEEN FORESEEN EVEN THOUGH PROPER EXAMINATION HAD BEEN MADE.
 - PROVIDE ALL EQUIPMENT AND MATERIALS AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE.
 - PROVIDE EQUIPMENT AND MATERIAL SUBMITTALS FOR APPROVAL INDICATING COMPLIANCE WITH CONTRACT REQUIREMENTS PRIOR TO ORDERING EQUIPMENT & MATERIALS. SUBMITTALS SHALL BE SUBMITTED TO THE OWNER OR ARCHITECT, AS APPLICABLE, AND SHALL BE APPROVED PRIOR TO PURCHASE OR FABRICATION OF SUBMITTED ITEMS. SUBMITTALS SHALL INCLUDE MANUFACTURER AND MODEL NUMBER, SCHEDULED INFORMATION, ELECTRICAL CHARACTERISTICS, ACCESSORIES AND OPTIONS, INSTALLATION INSTRUCTIONS, AND LIST ANY DEVIATIONS FROM REQUIREMENTS.
 - ALL EQUIPMENT & MATERIALS SHALL BE NEW (UNLESS OTHERWISE INDICATED), AND THE CURRENT MODEL FOR WHICH REPLACEMENT PARTS ARE AVAILABLE. SUBSTITUTIONS WILL ONLY BE ACCEPTED AT THE DISCRETION OF THE ENGINEER.
 - WHERE TWO OR MORE ITEMS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCT OF ONE MANUFACTURER SHALL BE USED.
 - IF THE CONTRACTOR SUBSTITUTES EQUIPMENT OR MATERIALS DIFFERENT FROM THE EQUIPMENT & MATERIALS SPECIFIED, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY CHANGES OR INCREASE IN COSTS TO INCLUDING BUT NOT LIMITED TO ELECTRICAL DISTRIBUTION SYSTEMS, STRUCTURAL SUPPORTS, ARCHITECTURAL CHANGES, ETC. TO ACCOMMODATE THE SUBSTITUTED EQUIPMENT.
 - THE CONTRACTOR SHALL WARRANT TO THE OWNER THAT ALL WORK SHALL BE FREE FROM DEFECTS AND WILL CONFORM TO THE CONTRACT DOCUMENTS. THIS WARRANTY SHALL EXTEND NOT LESS THAN ONE (1) YEAR FROM THE DATE OF BENEFICIAL OCCUPANCY FOR WORKMANSHIP AND MATERIALS. COMPRESSORS SHALL INCLUDE MANUFACTURER EXTENDED FOUR (4) YEAR WARRANTY IN ADDITION TO INITIAL CONTRACTOR ONE (1) YEAR WARRANTY.
 - THE CONTRACTOR SHALL PROVIDE OPERATION & MAINTENANCE (OBM) MANUALS THAT SHALL, AS A MINIMUM, INCLUDE PARTS LISTS FOR INDIVIDUAL COMPONENTS OF EACH PIECE OF EQUIPMENT, MANUFACTURER'S NAME AND ADDRESS, LOCATION OF LOCAL PARTS SUPPLIER, MANUFACTURER'S PUBLISHED OPERATION AND MAINTENANCE INSTRUCTIONS, DATA SHEETS HIGHLIGHTING EQUIPMENT DESIGNATIONS AND MODEL NUMBERS. DATA SHEETS FOR FANS SHALL INCLUDE FAN CURVE OR PERFORMANCE DATA FOR THE FULL RANGE OF STATIC PRESSURE AND CFM CAPABILITIES.
 - THE CONTRACTOR SHALL PROVIDE OPERATION & MAINTENANCE (OBM) MANUALS THAT SHALL, AS A MINIMUM, INCLUDE PARTS LISTS FOR INDIVIDUAL COMPONENTS OF EACH PIECE OF EQUIPMENT, MANUFACTURER'S NAME AND ADDRESS, LOCATION OF LOCAL PARTS SUPPLIER, MANUFACTURER'S PUBLISHED OPERATION AND MAINTENANCE INSTRUCTIONS, DATA SHEETS HIGHLIGHTING EQUIPMENT DESIGNATIONS AND MODEL NUMBERS. DATA SHEETS FOR FANS SHALL INCLUDE FAN CURVE OR PERFORMANCE DATA FOR THE FULL RANGE OF STATIC PRESSURE AND CFM CAPABILITIES.
 - UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN THE CONTRACT AREA AND ALL OTHER AREAS USED FOR STORAGE, STAGING, ETC.. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, WASHING AND REPAIRING GLASS, REMOVING SPOTS AND STAINS, CLEANING ALL FIXTURES AND WASHING ALL FLOORS, WALLS, AND CEILINGS, AS APPLICABLE TO THE WORK AREA.
 - ANY BUILDING SURFACE, INCLUDING BUT NOT LIMITED TO WALL, FLOOR, DOORS, WINDOWS, AND CEILINGS, DAMAGED DURING THE INSTALLATION, FABRICATION, OR MOVING OF MECHANICAL EQUIPMENT AND ACCESSORIES SHALL BE REPAIRED TO MATCH NEW OR EXISTING CONDITIONS.
 - CONSTRUCTION DOCUMENTS ARE BASED UPON A FIELD EXAMINATION OF THE SITE AND AVAILABLE EXISTING BUILDING PLANS, AND THEREFORE, MAY NOT INDICATE ALL EXISTING ITEMS AND SITE CONDITIONS. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE WORK AREAS AND SCOPE OF WORK OF THE PROJECT PRIOR TO BID. ADDITIONALLY, PRIOR TO THE ORDERING OR PURCHASING OF ANY EQUIPMENT OR MATERIALS AND PRIOR TO THE INSTALLATION OF ANY NEW WORK, THE CONTRACTOR SHALL EXAMINE THE PREMISES OF WHERE THE WORK WILL BE DONE AND VERIFY IF EXISTING CONDITIONS WILL IN ANY MANNER AFFECT THE WORK UNDER THIS CONTRACT. ANY EXISTING CONDITIONS WHICH ARE APPARENT OR COULD BE REASONABLY INFERRED FROM A VISIT TO THE SITE SHALL NOT BE THE BASIS FOR A CHANGE IN THE CONTRACT AMOUNT.
 - VERIFY EXISTING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, AND SYSTEM COMPONENTS PRIOR TO DEMOLITION. IF EXISTING CONDITIONS ARE DIFFERENT THAN WHAT IS INDICATED ON THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOTIFY THE OWNER/ARCHITECT PRIOR TO PROCEEDING WITH WORK.
 - CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT AND MATERIALS NEEDED TO REMOVE EXISTING EQUIPMENT, DUCTWORK, PIPING, ETC.. NOT REQUIRED FOR THE PROPER OPERATION OF THE NEW SYSTEMS OR EXISTING TO REMAIN SYSTEMS. REMOVAL WILL BE CONSISTENT WITH THE FINAL CONFIGURATION OF THE SYSTEMS INDICATED ON THE NEW WORK PLANS. ALL ITEMS THAT ARE DEMOLISHED OR DAMAGED SHALL BECOME THE PROPERTY OF THE CONTRACTOR UPON REMOVAL. THE MATERIALS SHALL BE REMOVED IMMEDIATELY FROM THE SITE AND SHALL NOT BE REUSED. DISPOSE OF ALL DEBRIS IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
 - PRIOR TO REMOVAL OF ANY MECHANICAL EQUIPMENT, ENSURE THAT ANY ASSOCIATED POWER, GAS, AND CONTROL WIRING HAS BEEN SAFELY DISCONNECTED.
 - PROTECT OPENINGS OF DUCTWORK, PIPING, CONDUIT, ETC. FROM ENTRANCE OF FOREIGN MATERIALS AT ALL TIMES DURING CONSTRUCTION.
 - UNLESS SPECIFICALLY NOTED TO BE REMOVED, EXISTING EQUIPMENT, DUCTWORK PIPING, ETC. IS TO REMAIN. EXISTING ITEMS TO REMAIN AND EXISTING BUILDING SURFACES SHALL BE ADEQUATELY PROTECTED FROM DEMOLITION AND NEW CONSTRUCTION WORK, AS NEEDED. ANY ITEMS DAMAGED SHALL BE ADEQUATELY CLEANED OR REPLACED TO THE OWNER'S SATISFACTION TO ORIGINAL CONDITION BEFORE CONSTRUCTION.
 - PATCH ANY HOLES IN STRUCTURE CREATED BY REMOVAL OF DUCTWORK, PIPING, CONDUITS, ETC. ABANDONED ITEMS, ANCHORS, INSERTS, PIPE STUBS, AND OTHER SIMILAR PROJECTIONS NOT BEING CONCEALED BY NEW CONSTRUCTION SHALL BE REMOVED TO A MINIMUM OF 1" BELOW THE ADJACENT FINISHED SURFACE AND THE DISTURBED AREA PATCHED.
 - REINSULATE DUCTWORK OR PIPING WHERE EXISTING INSULATED DUCTWORK OR PIPING IS PATCHED, CAPPED, ETC. WITH NEW INSULATION MATERIALS THAT MATCH THE EXISTING INSULATION MATERIALS AND R-VALUES.

COORDINATION:

- THE DRAWINGS SHALL BE CONSIDERED AS DIAGRAMMATIC. ATTENTION IS CALLED TO THE FACT THAT WHILE THE DRAWINGS ARE GENERALLY TO SCALE AND ARE ACCURATE AS THE SCALE WILL PERMIT. DO NOT SCALE DRAWINGS. THE EXACT LOCATIONS NECESSARY TO SECURE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE ENGINEER BEFORE BEING INSTALLED. CUTTING OR ALTERING ANY STRUCTURAL MEMBERS MUST NOT BE PERMITTED WITHOUT WRITTEN APPROVAL OF ARCHITECT OR STRUCTURAL ENGINEER, AS APPLICABLE. ADDITIONALLY, THE DRAWINGS DO NOT INDICATE EVERY FITTING, ELBOW, OFFSET, OR SIMILAR COMPONENTS WHICH ARE REQUIRED TO COMPLETE THE WORK.
- COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, AS APPLICABLE, SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS. ALL REQUIRED CLEARANCES SHALL BE PROVIDED.
- LOCATIONS OF EXTERIOR PENETRATIONS (I.E. LOUVERS OR WALLCAPS) AND INDOOR EXPOSED MECHANICAL EQUIPMENT AND ACCESSORIES SHALL BE FACTORY COATED TO MATCH BUILDING EXTERIOR FINISH. COLOR SHALL BE APPROVED BY THE ARCHITECT AND/OR OWNER REPRESENTATIVE, AS APPLICABLE, PRIOR TO PURCHASE.
- ALL MATERIALS INSTALLED WITHIN HVAC AIR PLENUMS SHALL BE RATED WITH A MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE-DEVELOPED INDEX OF 50.
- REFER TO ARCHITECTURAL PLANS FOR FIRE AND SMOKE RESISTANCE RATINGS OF ALL WALLS, FLOORS, CEILINGS, OR AND PARTITIONS. ALL OPENINGS IN RATED WALLS DUE TO PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED WITH A PRODUCT SIMILAR TO 3M OR APPROVED EQUAL TO MAINTAIN THE DESIGNATED RATING OF THE ASSEMBLY.
- DUCTWORK AND PIPING SHALL NOT BE INSTALLED IN ROOMS DESIGNATED TO CONTAIN ELECTRICAL EQUIPMENT (I.E. ELECTRICAL, IT, ELEVATOR ROOMS) UNLESS SERVING THE RESPECTIVE ROOM. DUCTWORK AND PIPING SHALL NOT BE INSTALLED DIRECTLY OVER ELECTRICAL EQUIPMENT OR PANELS.

TESTING, ADJUSTING, AND BALANCING:

- TESTING, ADJUSTING, AND BALANCING (TAB) SHALL BE PERFORMED ON ALL SCHEDULED EQUIPMENT AND DEVICES BEFORE ANY INSULATION IS APPLIED AND INCLUDE SUPPLY AIR, EXHAUST AIR, AND OUTDOOR AIR VALVES INDICATED FOR EACH SYSTEM. TAB AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCE COUNCIL (AA&C) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB).
- SUBMIT THE TEST AND BALANCE REPORT TO THE OWNER OR ARCHITECT, AS APPLICABLE, FOR APPROVAL. REPORT SHALL INCLUDE ALL APPLICABLE AIR AND HYDRAULIC BALANCING DATA AND PROVIDE A SUMMARY OF INSTRUMENTS USED WITH LATEST CALIBRATION DATES. REPORTS SHALL BEAR THE SEAL OF THE TAB SUPERVISOR IN CHARGE AND INCLUDE A WRITTEN GUARANTEE THAT ALL WORK WAS PERFORMED IN ACCORDANCE WITH THE CERTIFYING AGENCY STANDARDS.

EQUIPMENT

- ALL MECHANICAL EQUIPMENT AND ACCESSORIES TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS, CONTRACT DOCUMENTS, AND ALL APPLICABLE CODES AND REGULATIONS. COORDINATE EQUIPMENT CONNECTIONS AND REQUIRED CLEARANCES WITH MANUFACTURER CERTIFIED DRAWINGS. PROVIDE DUCTWORK AND PIPING TRANSITIONS, AS REQUIRED.
- PROVIDE ACCESS PANELS FOR INSTALLATIONS IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, AND OTHER CONCEALED MECHANICAL EQUIPMENT THAT REQUIRE ACCESS FOR ADJUSTMENT OR MAINTENANCE. ACCESS PANELS SHALL BE TURNED OVER TO GENERAL CONTRACTOR FOR INSTALLATION.
- ALL EQUIPMENT, PIPING, ETC., SHALL BE SUPPORTED AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- ALL EQUIPMENT AND PIPING INSULATION BE RATED WITH A MAXIMUM FLAME-SPREAD INDEX OF 25 AND A MAXIMUM SMOKE-DEVELOPED INDEX OF 50, AS REGULATED BY ASTM E-84, NFPA 255, OR UL 723.
- ELECTRICAL WIRING, CONTROLS, AND CONNECTIONS TO EQUIPMENT TO BE IN ACCORDANCE WITH NFPA 70. ALL ELECTRICALLY POWERED MECHANICAL EQUIPMENT SHALL BE PROVIDED WITH A DISCONNECT AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- ALL CONTROL WIRE AND CONDUIT SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE AND DIVISION 16 REQUIREMENTS.
- COORDINATE LOCATION OF ALL GRADE MOUNTED MECHANICAL EQUIPMENT WITH ARCHITECTURAL AND/OR CIVIL PLANS, AS APPLICABLE. GRADE MOUNTED MECHANICAL EQUIPMENT TO BE INSTALLED LEVEL ON 4" THICK CONCRETE PAD THAT EXTENDS 4" FURTHER THAN ALL SIDES OF EQUIPMENT FOOTPRINT.
- FOR CURB-MOUNTED ROOFTOP EQUIPMENT, ROOF CURBS SHALL BE PROVIDED WITH EQUIPMENT, UNLESS NOTED OTHERWISE. PROVIDE ROOF OPENINGS AND ANY SUPPLEMENTAL STRUCTURE, AS NEEDED, TO LEVEL EQUIPMENT.
- COORDINATE LOCATION OF ALL ROOF MOUNTED MECHANICAL EQUIPMENT WITH ARCHITECTURAL AND PLANS, AS APPLICABLE. ROOF MOUNTED MECHANICAL EQUIPMENT SHAL BE INSTALLED LEVEL ON EQUIPMENT PAD, DIVERSITECH CLADLITE OR EQUAL, THAT EXTENDS 4" FURTHER THAN ALL SIDES OF EQUIPMENT FOOTPRINT WITH 1/2" THICK NEOPRENE PADS (MINIMUM FOUR (4) PER UNIT).

MECHANICAL ABBREVIATIONS

A/C	ABOVE CEILING	LWT	LEAVING WATER TEMPERATURE
AG	ABOVE GRADE	MAX	MAXIMUM
AHU	AIR HANDLING UNIT	MBH	ONE THOUSAND BTU'S PER HOUR
AFF	ABOVE FINISHED FLOOR	MECH	MECHANICAL
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, AND AIR CONDITIONING ENGINEERS	MHP	MOTOR HORSEPOWER
BFF	BELOW FINISHED FLOOR	MIN	MINIMUM
BLDG	BUILDING	MOD	MOTOR OPERATED DAMPER
BTUH	BRITISH THERMAL UNITS PER HOUR	NC	NOISE CRITERIA, NORMALLY CLOSED
CFI	CONTRACTOR FURNISHED AND INSTALLED	NIC	NOT IN CONTRACT
CFM	CUBIC FEET PER MINUTE	NTS	NOT TO SCALE
CLNG	CEILING	OA	OUTSIDE AIR
CO	CLEANOUT	OC	ON CENTER
COND	CONDENSATE	OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
CRD	CEILING RADIATION DAMPER	PC	PUMPED CONDENSATE
CW	CONDENSER WATER	PD	PRESSURE DROP
DB	DECIBEL	PH	PHASE
DEG	DEGREE	PIU	POWERED INDUCTION UNIT
DIA	DIAMETER	RA	RETURN AIR
DN	DOWN	(R)	RELOCATED (EQUIPMENT)
DWG	DRAWING	RPM	REVOLUTIONS PER MINUTE
DPT	DIFFERENTIAL PRESSURE TRANSMITTER	RTU	ROOFTOP UNIT
(E)	EXISTING	SA	SUPPLY AIR
EA	EXHAUST AIR OR EACH (AS APPLICABLE)	SEER	SEASONAL ENERGY EFFICIENCY RATIO
EAT	ENTERING AIR TEMPERATURE	SL	SOUND LINING
EER	ENERGY EFFICIENCY RATING	SMAcNA	SHEET METAL & AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
EF	EXHAUST FAN	SP	STATIC PRESSURE
(ER)	EXISTING TO BE REMOVED	SS	STAINLESS STEEL
(ERR)	EXISTING TO BE REMOVED AND RELOCATED	TYP	TYPICAL
ESP	EXTERNAL STATIC PRESSURE	UH	UNIT HEATER
F	DEGREES FAHRENHEIT	UL	UNDERWRITER'S LABORATORIES
FCU	FAN COIL UNIT	UON	UNLESS OTHERWISE NOTED
FEE	FINISHED FLOOR ELEVATION	V	VENT OR VOLTS (AS APPLICABLE)
FPM	FEET PER MINUTE	VAV	VARIABLE AIR VOLUME
FT	FOOT OR FEET	VD	VOLUME DAMPER
GA	GAUGE	VFD	VARIABLE FREQUENCY DRIVE
GF	GAS FURNACE	VIF	VERIFY IN FIELD
GPM	GALLONS PER MINUTE	VTR	VENT THROUGH ROOF
HAF	HIGH AS POSSIBLE	W	WASTE
HP	HORSEPOWER	W/	WITH
HW	HOT WATER	WB	WET BULB
HZ	HERTZ	Ø	DIAMETER
IN	INCH OR INCHES		
KW	KILOWATT		
LAT	LEAVING AIR TEMPERATURE		
LBS	POUNDS		

MECHANICAL LEGEND

	EXISTING TO BE REMOVED
	EXISTING DUCTWORK OR EQUIPMENT TO REMAIN
	NEW DUCTWORK (FIRST FIGURE = SIDE SHOWN) DIMENSIONS SHOWN ARE CLEAR INSIDE DUCT REQUIREMENTS
	DUCT UNDER POSITIVE PRESSURE
	DUCT UNDER NEGATIVE PRESSURE
	POSITIVE PRESSURE DUCT TURNING UP
	NEGATIVE PRESSURE DUCT TURNING UP
	POSITIVE PRESSURE DUCT TURNING DOWN
	NEGATIVE PRESSURE DUCT TURNING DOWN
	RISE IN DUCT (ARROW INDICATES AIRFLOW DIRECTION)
	DROP IN DUCT (ARROW INDICATES AIRFLOW DIRECTION)
	TRANSITION IN DUCT, SQUARE TO SQUARE
	TRANSITION IN DUCT, SQUARE TO ROUND
	DUCT CAPPED AND SEALED
	INTERNALLY LINED DUCT
	SQUARE THROAT ELBOW WITH TURNING VANES
	SQUARE THROAT ELBOW WITHOUT TURNING VANES
	FULL RADIUS ELBOW
	45 DEGREE TAP WITHOUT BALANCING DAMPER
	45 DEGREE TAP WITH BALANCING DAMPER
	CONICAL TAP WITHOUT BALANCING DAMPER
	SPIN-IN RUNOUT FITTING WITH BALANCING DAMPER AND SCOOP
	FC FLEXIBLE DUCT CONNECTION
	MVD MANUAL BALANCING DAMPER
	RDD COUNTERBALANCED BACKDRAFT DAMPER
	FD FIRE DAMPER
	FSD COMBINATION FIRE AND SMOKE DAMPER
	MOTORIZED DAMPER
	CD SUPPLY AIR DIFFUSER
	CG RETURN AIR GRILLE
	ROOM OR SPACE THERMOSTAT
	ROOM OR SPACE HUMIDISTAT
	CARBON DIOXIDE SENSOR
	REMOTE ROOM OR SPACE TEMPERATURE SENSOR
	SD SMOKE DETECTOR, DUCT OR EQUIPMENT MOUNTED
	DIFFUSER/GRILLE AIR QUANTITY & TYPE DESIGNATION SYMBOL (IN CFM)
	EQUIPMENT TAG
	POINT OF CONNECTION, NEW TO EXISTING
	POINT OF LIMIT OF DEMOLITION
	PIPE ELBOW DOWN
	PIPE ELBOW UP
	TEE DOWN
	TEE UP
	MANUAL ISOLATION VALVE
	CHECK VALVE
	PRESSURE REGULATING VALVE
	MOTORIZED CONTROL VALVE



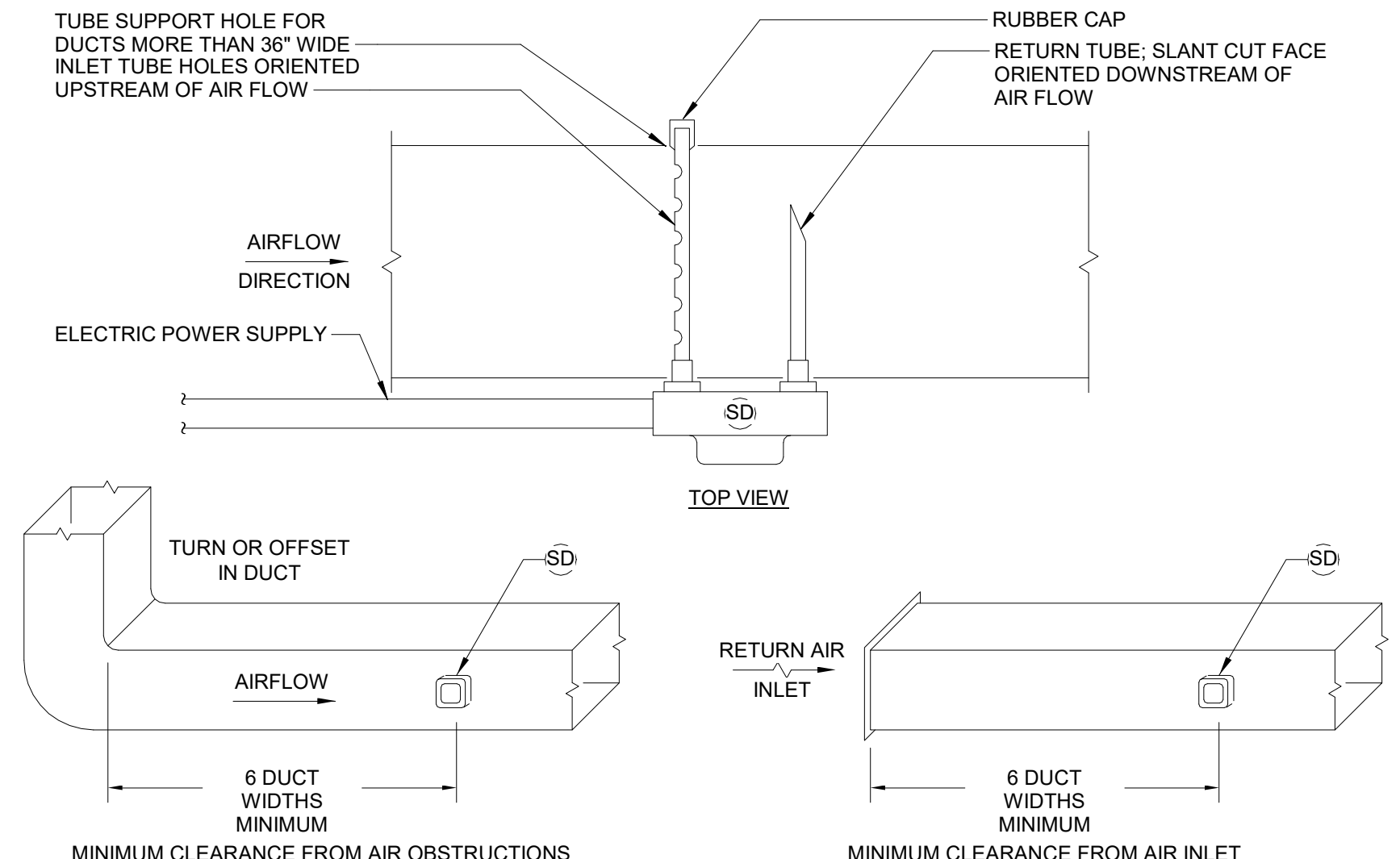
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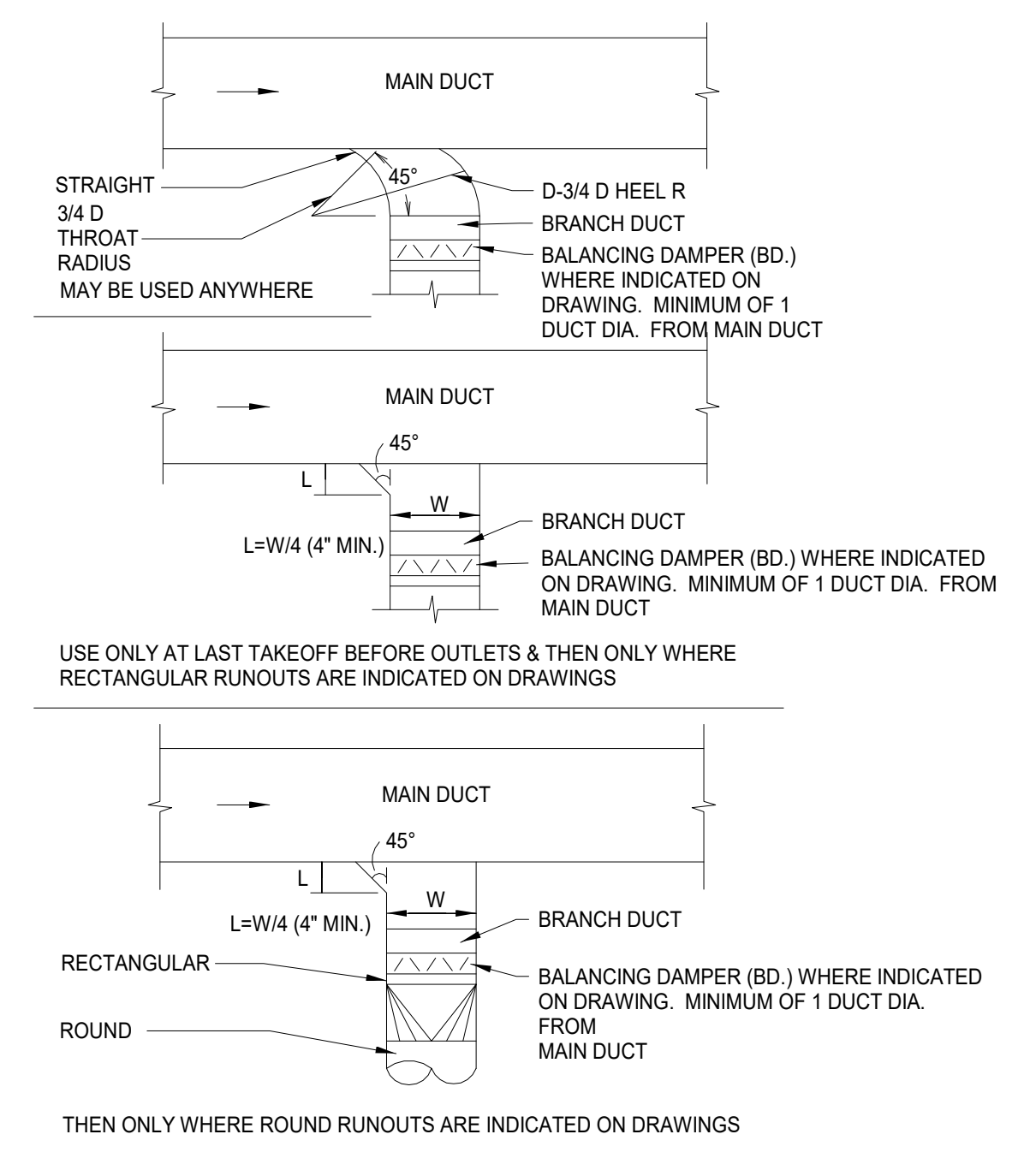
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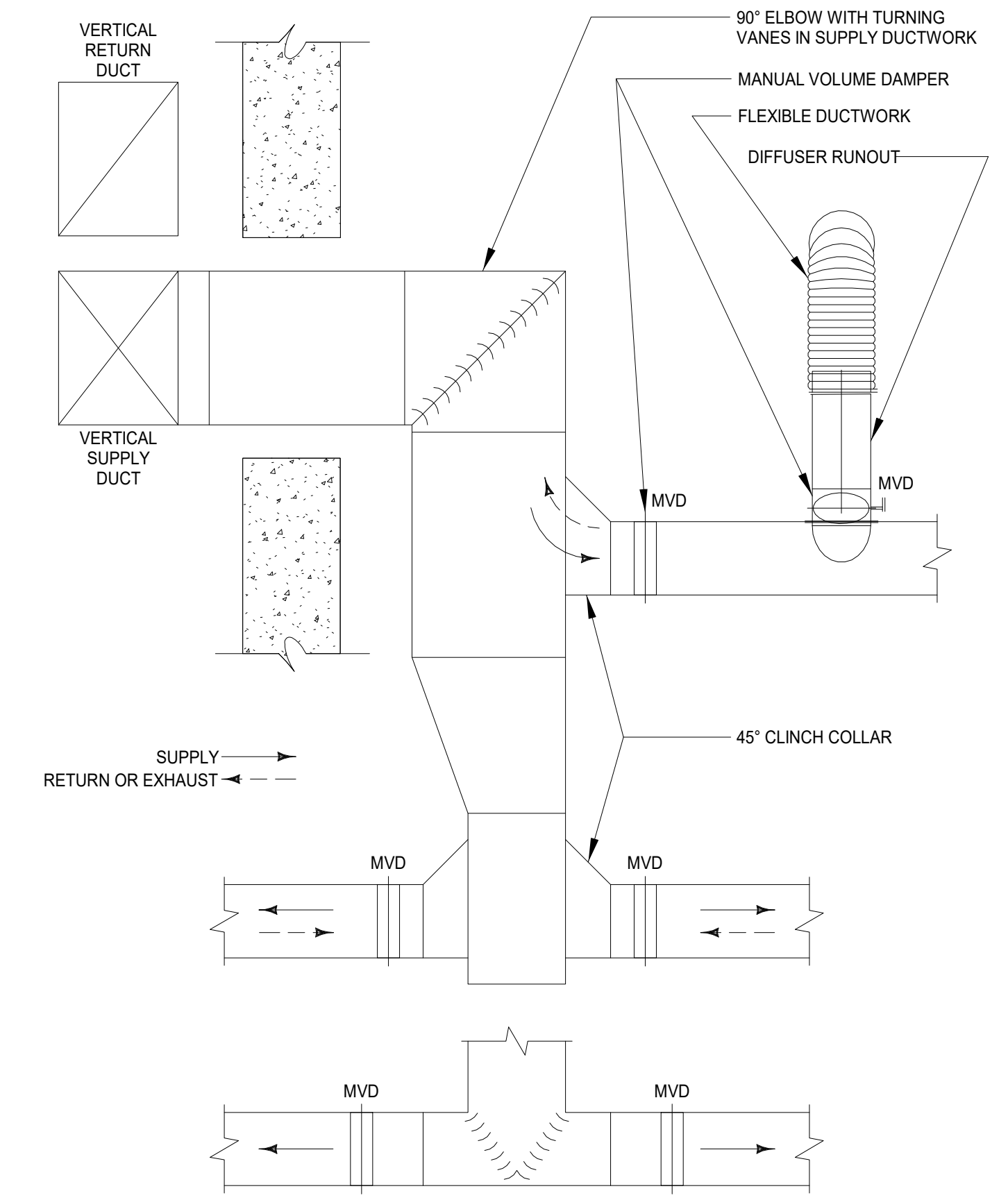


- NOTES:**
- INLET TUBE LENGTH SHALL BE EQUAL TO FULL WIDTH OF DUCT.
 - RETURN TUBE SHALL BE AS RECOMMENDED BY THE DETECTOR'S MANUFACTURER.
 - CLEARANCES FROM OBSTRUCTIONS, INLETS AND PROPER LOCATION IN THE SYSTEM SHALL BE IN ACCORDANCE WITH NEMA: "GUIDE FOR PROPER USE OF SMOKE DETECTORS IN DUCT APPLICATIONS", NFPA90A, U.L. STANDARD 268A AND NFPA 72E.

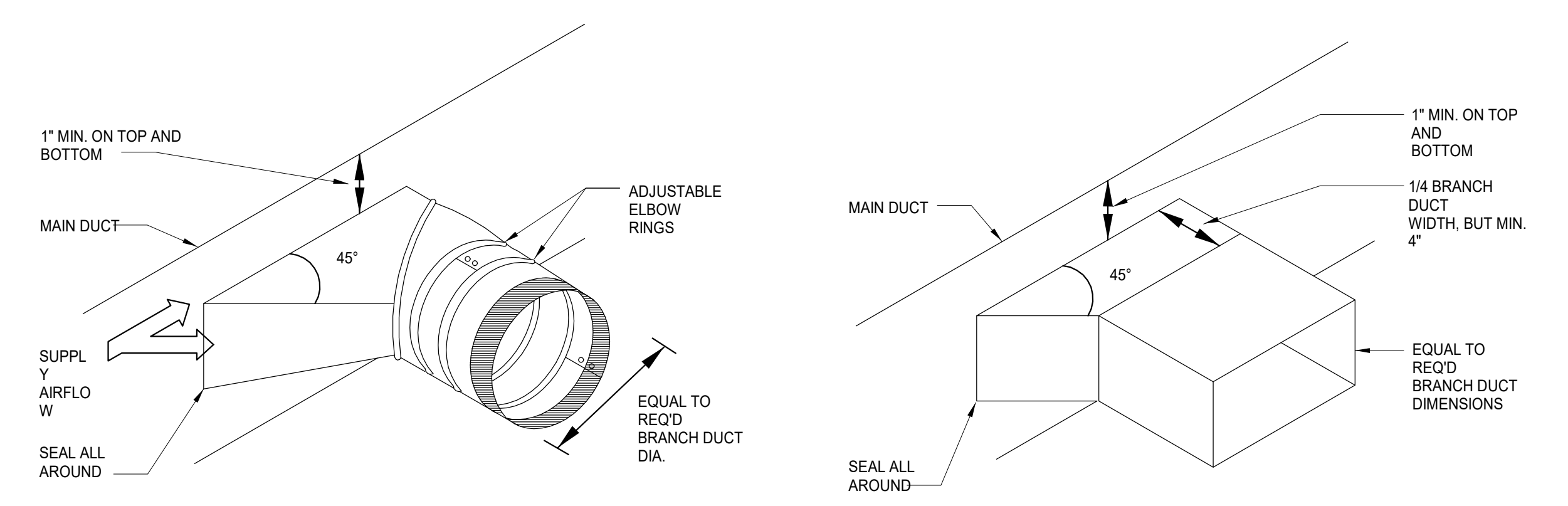
9 DUCT MOUNTED SMOKE DETECTOR DETAIL
NOT TO SCALE



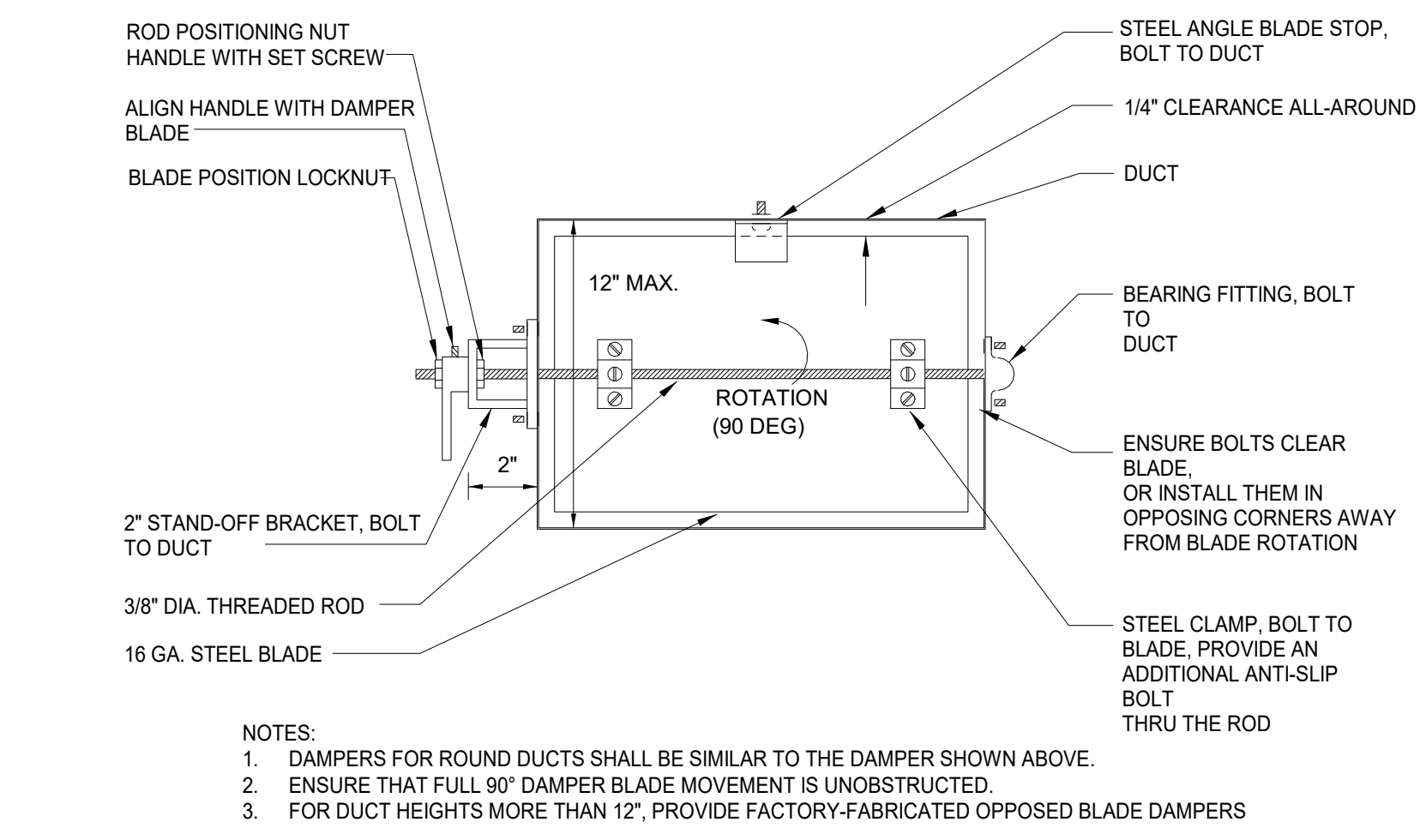
5 TYPICAL MAIN TO BRANCH DUCT CONNECTIONS
NOT TO SCALE



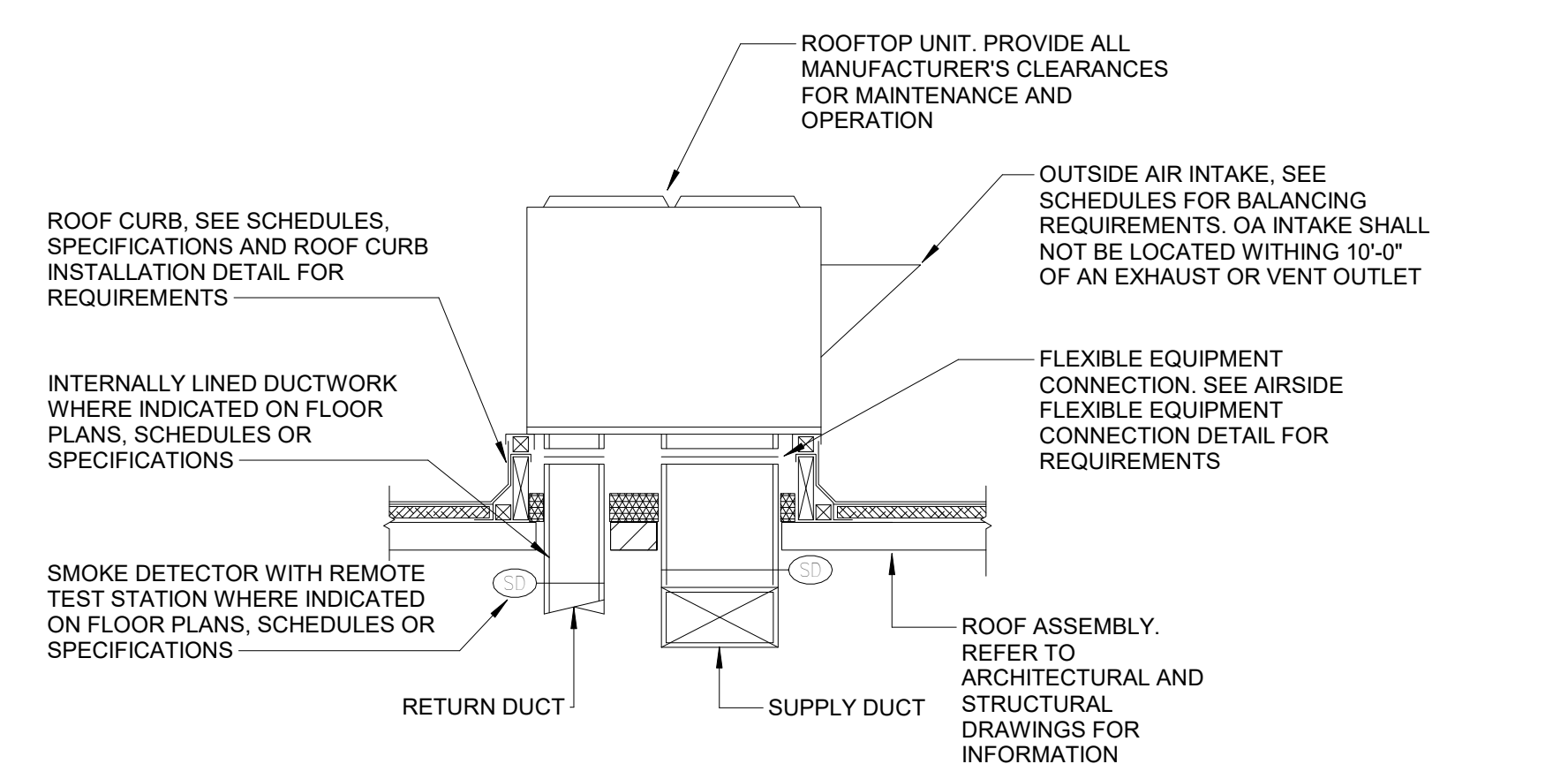
1 DUCT CONSTRUCTION DETAIL
NOT TO SCALE



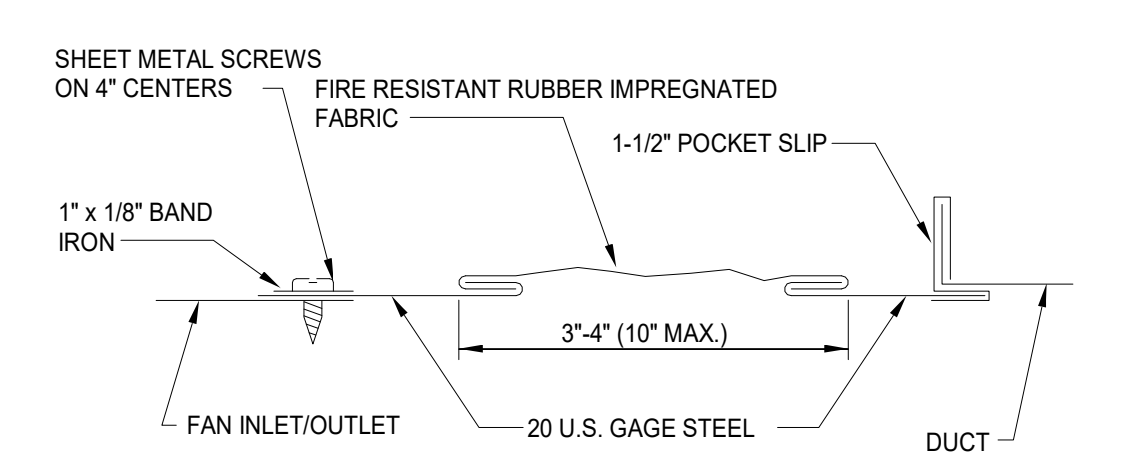
6 TYPICAL BRANCH TAKE-OFF FITTING
NOT TO SCALE



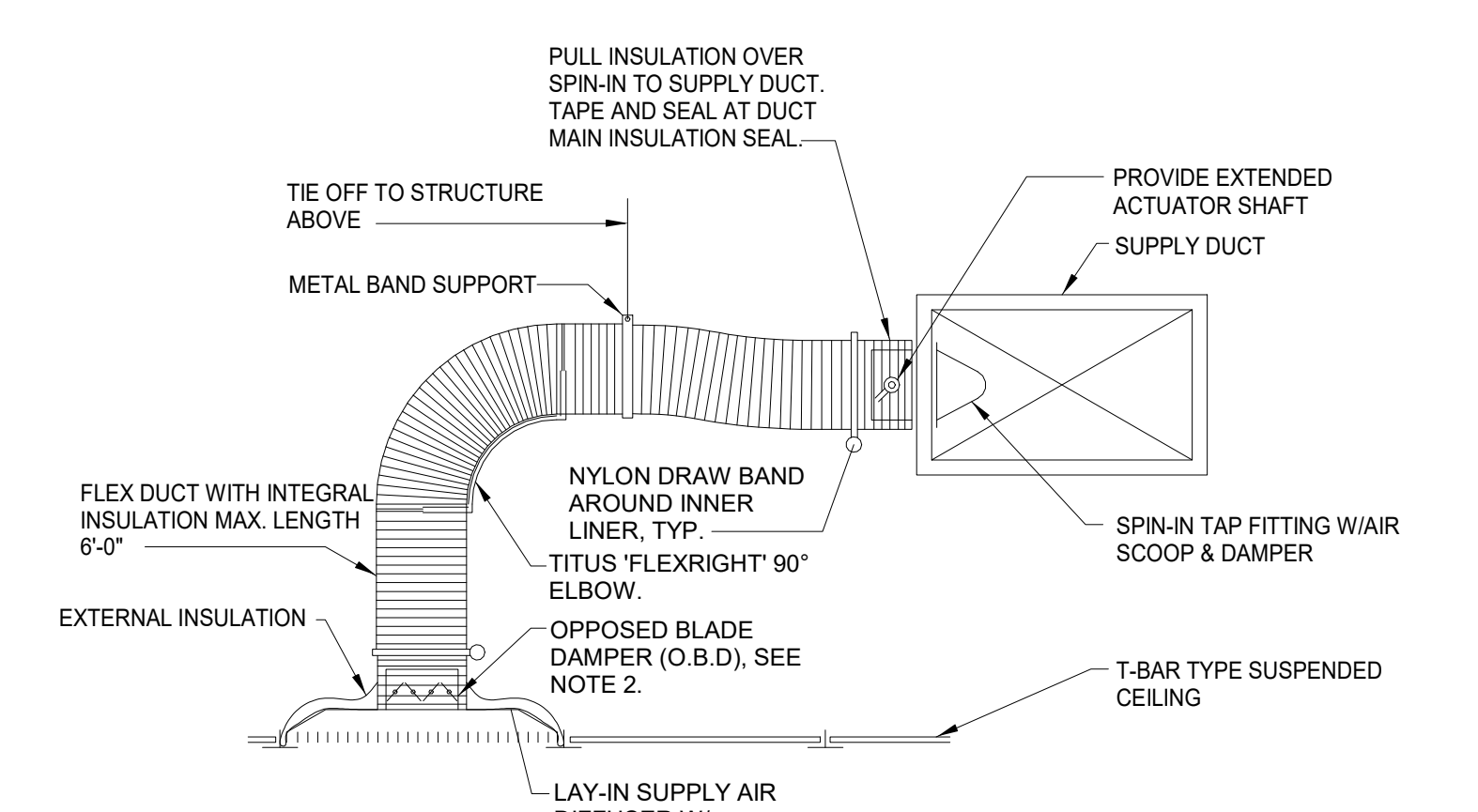
2 MANUAL SINGLE BLADE DAMPER DETAIL
NOT TO SCALE



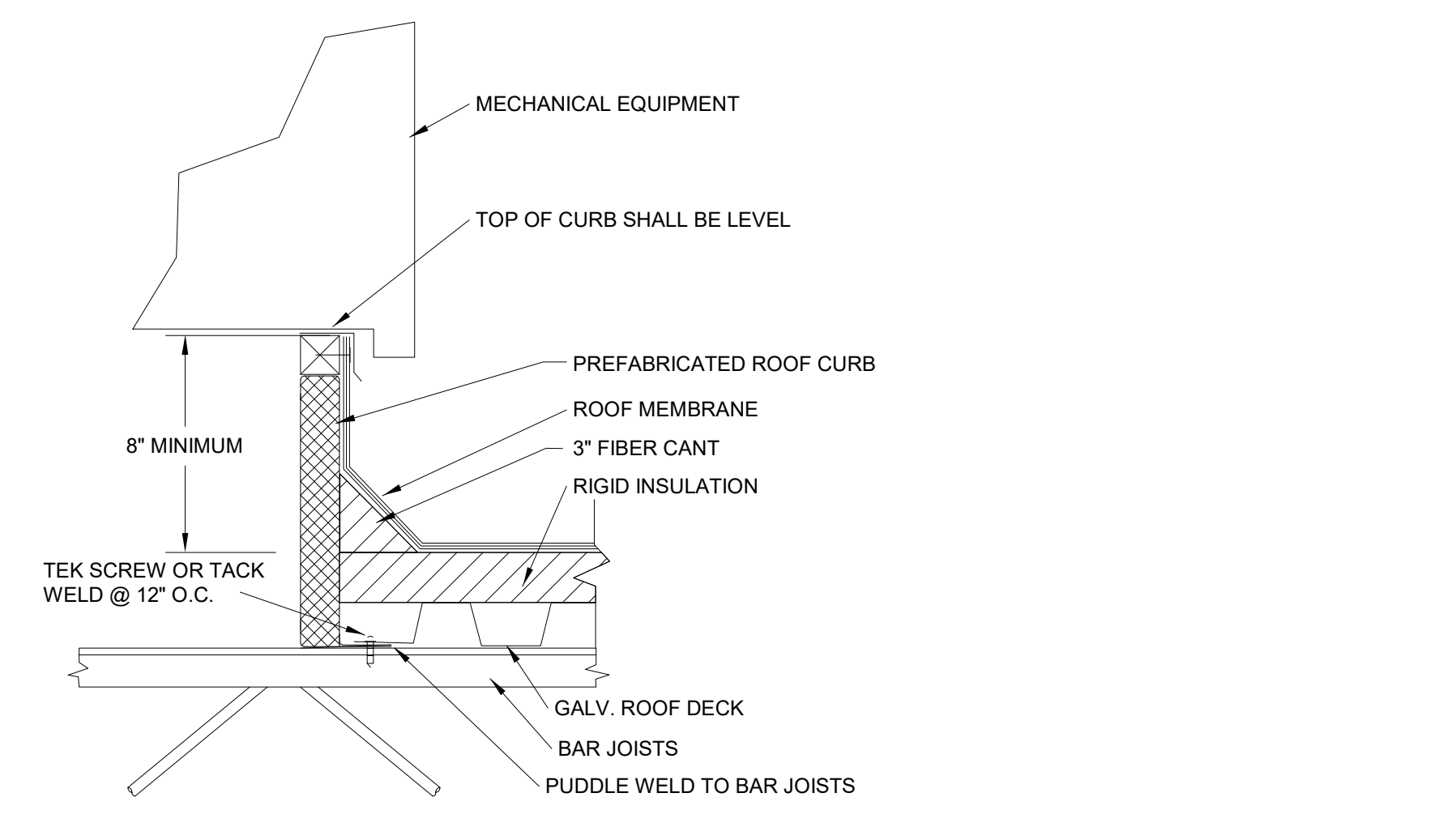
10 ROOFTOP DX UNIT INSTALLATION DETAIL
NOT TO SCALE



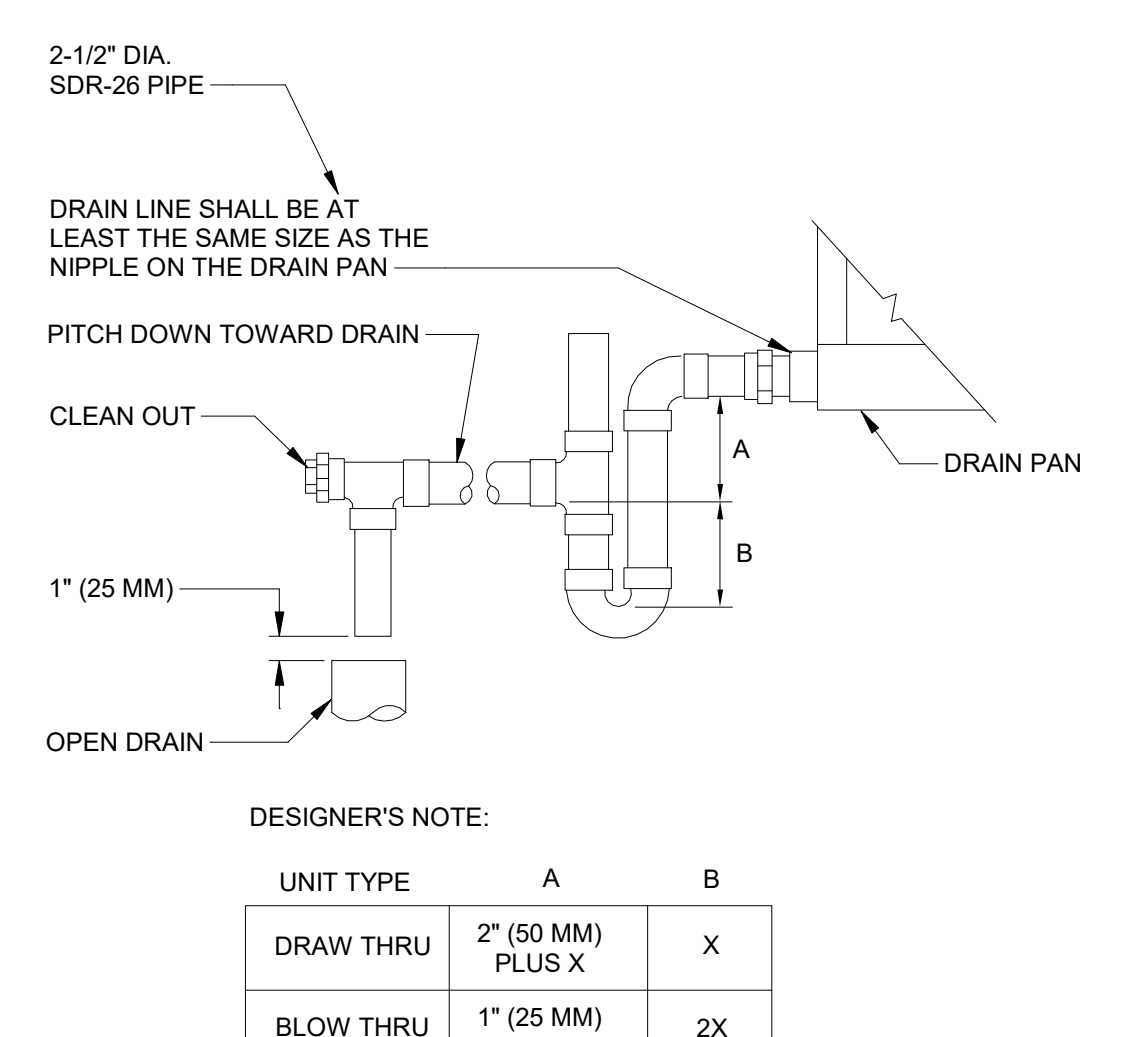
7 TYPICAL AIRSIDE FLEXIBLE EQUIPMENT CONNECTION DETAIL
NOT TO SCALE



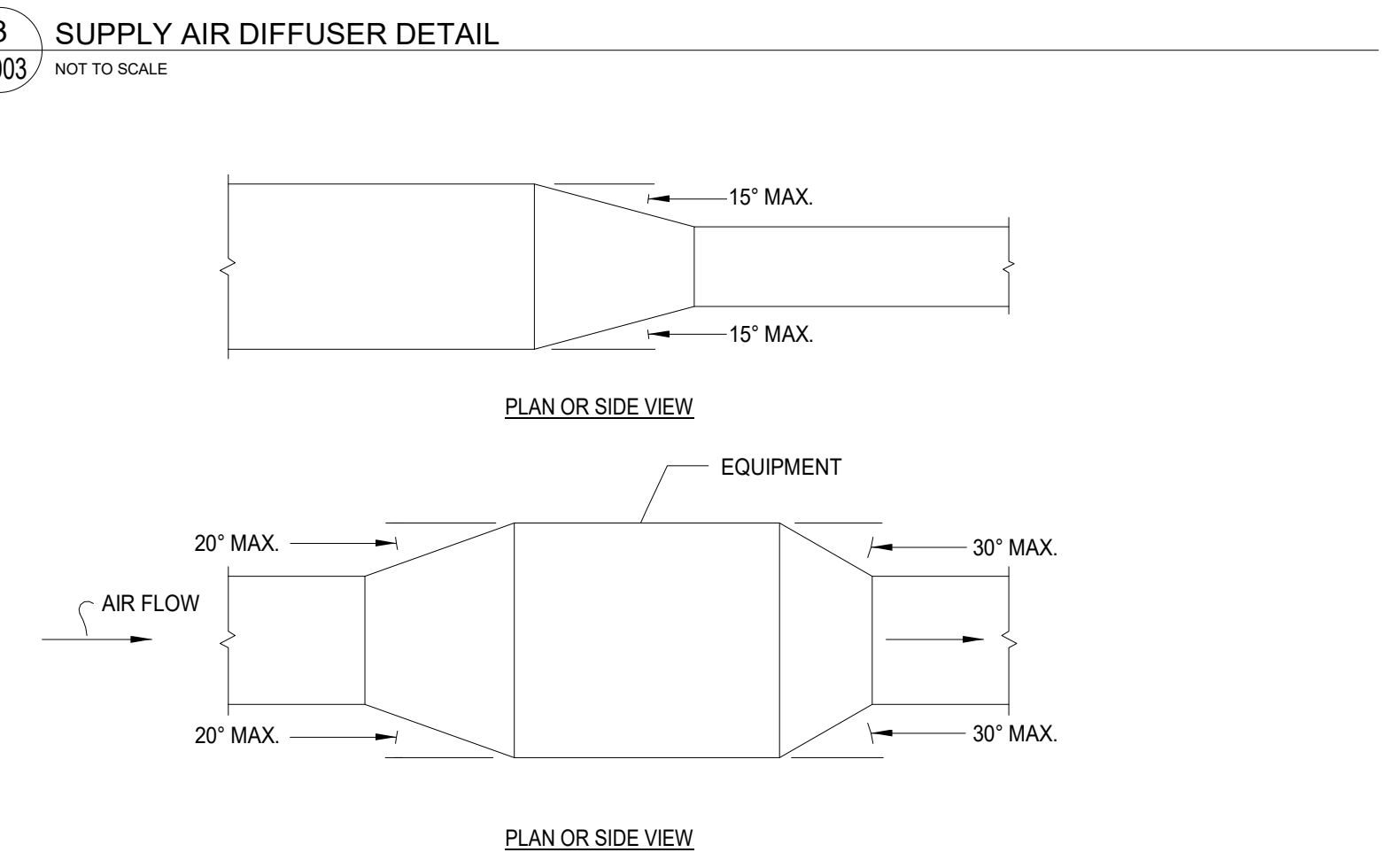
3 SUPPLY AIR DIFFUSER DETAIL
NOT TO SCALE



11 ROOF CURB INSTALLATION DETAIL
NOT TO SCALE



8 RTU CONDENSATE DRAIN TRAP
NOT TO SCALE



4 TYPICAL DUCT ENLARGEMENT/REDUCTION TRANSITION
NOT TO SCALE

DESIGNER'S NOTE:

UNIT TYPE	A	B
DRAW THRU	2" (50 MM) PLUS X	X
BLOW THRU	1" (25 MM) MINIMUM	2X

WHERE X = STATIC PRESSURE IN PAN

NOTE:
1. UNLESS OTHERWISE INDICATED ON PLANS, MAXIMUM ANGLES SHOWN SHALL APPLY.

PACKAGED ROOFTOP UNIT SCHEDULE

MARK	SERVICE	NOMINAL TONS	SUPPLY (CFM)	OUTDOOR (CFM)	ESP (IN WC)	FAN MOTOR (HP)	COOLING CAPACITY					HOT GAS REHEAT		HEATING CAPACITY				WEIGHT (LBS)	MODEL	NOTES	
							EAT (DB °F)	EAT (WB °F)	LAT (DB/WB °F)	TOTAL (BTUH)	SENSIBLE (BTUH)	EFFICIENCY (EER/IEER/SEER)	TOTAL (MBH)	LAT (DB °F)	INPUT (MBH)	OUTPUT (MBH)	EAT (°F)				LAT (°F)
RTU-1	LIBRARY	7.5	2,730	490	1.0	3.0	77.3	64.9	57.0/54.7	84.2	59.9	11.2/15.0/-	25.8	71.7	125.0	103.0	59.5	94.400	1070	48FC	1.2,3,4,5,6,7,8,9
RTU-2	OFFICE	8.5	3,150	440	1.0	3.0	79.8	64.1	55.7/53.9	94.9	81.9	11.2/15.0/-	41.8	72.4	120.0/180.0	98.0/148.0	61.3	104.8	1175	48FC	1.2,3,4,5,6,7,8,9
RTU-3	LIBRARY	6.5	2,300	415	1.0	2.0	76.6	64.6	55.7/54.6	69.3	51.9	11.0/15.0/-	16.7	75.0	110.0	88.0	59.5	94.9	900	48FC	1.2,3,4,5,6,7,8,9

BASIS OF DESIGN: CARRIER
ACCEPTABLE EQUALS: TRANE, LENNOX, AAO, DAIKIN

GENERAL NOTES APPLICABLE TO ALL:

A. COOLING CAPACITY AND EFFICIENCY RATINGS BASED ON AHRI VALUES FOR EAT LISTED AND OUTDOOR UNIT EAT OF 95 °F.
B. PROVIDED WITH ELECTRICAL DISCONNECT AND SINGLE POINT, THRU-THE-CURB CONNECTION REFER TO ELECTRICAL PLANS FOR VOLTAGE AND PHASE.
C. R410A REFRIGERANT, INTEGRAL FILTER DRYER, AND HIGH/LOW PRESSURE SWITCHES.
D. REFER TO FLOOR PLANS FOR SYSTEM ORIENTATIONS.
E. CONDENSATE PIPING TO BE SIZED BASED ON UNIT CONNECTION, TRAPPED, AND ROUTED PER PLANS.
F. PROVIDED WITH FILTER RACK WITH MERV 8 FILTER.
G. PROVIDED WITH CRANKCASE HEATER, HARD START CAPACITOR AND RELAY
H. PROVIDED WITH HINGED ACCESS DOORS.
I. PROVIDED WITH POWERED CONVENIENCE OUTLET. COORDINATE WITH ELECTRICAL.

NUMBERED NOTES:

1. PROVIDE ENERGY CODE COMPLIANT, 7-DAY PROGRAMMABLE NEST THERMOSTAT WITH MANUAL CHANGEVER CONTROL, TIME-DELAY RELAY, AND ANTI-SHORT CYCLE CONTROLS.
2. LAT IS MEASURED AT COIL DISCHARGE.
3. PROVIDE CONDENSER COIL HAIL GUARDS.
4. 14" HIGH ROOF CURB, MANUFACTURER'S SUPPLIED.
5. PROVIDE WITH SMOKE DETECTOR IN SUPPLY AIR STREAM.
6. PROVIDE WITH ENTHALPY ECONOMIZER AND POWER EXHAUST. PROVIDE AIR-SIDE ECONOMIZER CONTROLS INCLUDING IECC COMPLIANT HIGH LIMIT CUTOFF AND FAULT DETECTION AND DIAGNOSTICS SYSTEM.
7. TWO STAGE COOLING CONTROL.
8. PROVIDE POWER EXHAUST.
9. PROVIDE MODULATING HOT GAS REHEAT.

ELECTRIC HEATER SCHEDULE

MARK	SERVICE	TYPE	CAPACITY @ 208V (KW)	NUMBER OF STAGES	MODEL	NOTES
EWH 1-1	VESTIBULE	WALL HEATER	3.0	1	AFA	1.2
EUH 1-1	RISER ROOM	UNIT HEATER	5.0	1	MJH	1.3

BASIS OF DESIGN: QMARK
ACCEPTABLE EQUALS: RAYWALL, INDECO, BERKO, MARLEY

GENERAL NOTES APPLICABLE TO ALL:

A. HEATER TO BE UL TESTED AND APPROVED
B. HEATER TO BE PROVIDED WITH THERMAL OVERLOAD PROTECTION
C. PROVIDED WITH ELECTRICAL DISCONNECT. REFER TO ELECTRICAL PLANS FOR VOLTAGE AND PHASE.

NUMBERED NOTES:

1. PROVIDED WITH INTEGRAL THERMOSTAT
2. PROVIDED WITH WALL MOUNTING HARDWARE
3. PROVIDED WITH STRUCTURAL MOUNTING BRACKETS

SPLIT SYSTEM HEAT PUMP SCHEDULE

MARK (INDOOR/OUTDOOR)	SERVICE	INDOOR UNIT				COOLING CAPACITY						HEATING CAPACITY				ELECTRIC HEAT			WEIGHT (LBS) (INDOOR/OUTDOOR)	MODEL (INDOOR/OUTDOOR)	NOTES	
		SUPPLY (CFM)	OUTDOOR (CFM)	ESP (IN WC)	FAN MOTOR (HP)	TOTAL (MBH)	SENSIBLE (MBH)	EAT (DB °F)	EAT (WB °F)	LAT (DB/WB °F)	SEER2	STAGES	TOTAL (MBH)	AMBIENT (DB °F)	EAT (DB °F)	HSPF2	KW @ 208V	KW @ 240V				STEPS
FCUHP-1	MEETING	1,575	320	1.0	3/4	53.4	32.0	76.4	65.4	54.5/54.1	16.0	2	58.2	47.0	59.8	8.1	11.30	-	2	210/340	FV4C25TPA	1.2,3,4,5,6,7,8,9,10
FCUHP-2	PROGRAM ROOM	1,020	230	1.0	1/2	32.5	22.3	76.0	65.4	55.7/55.0	15.0	2	34.7	47.0	58.2	8.8	7.50	-	2	275/150	FV4C25TPA	1.2,3,4,5,6,7,8,9,10
FCUHP-3	RESTROOM	550	100	0.75	1/3	16.4	14.6	82.2	64.8	57.7/55.0	14.3	2	17.5	47.0	58.2	7.5	15.00	-	2	120/190	FJ4D25SPA	1.2,3,4,5,6,7,8,9,10

BASIS OF DESIGN: CARRIER
ACCEPTABLE EQUALS: TRANE, LENNOX, CARRIER, YORK, DAIKIN, AAO

GENERAL NOTES APPLICABLE TO ALL:

A. COOLING CAPACITY AND EFFICIENCY RATINGS BASED ON AHRI VALUES FOR EAT LISTED AND OUTDOOR UNIT EAT OF 95 °F. HEATING CAPACITY BASED ON OUTDOOR UNIT EAT OF 47 °F. PROVIDED WITH TXV, AS NEEDED, TO MEET SCHEDULED EFFICIENCIES.
B. R-410A. PROVIDE AND INSTALL REFRIGERANT SUPPLY AND RETURN LINES PER MANUFACTURERS RECOMMENDATIONS.
C. REFER TO FLOOR PLANS FOR SYSTEM ORIENTATIONS.
D. CONDENSATE PIPING TO BE SIZED BASED ON UNIT CONNECTION, TRAPPED, AND ROUTED PER PLANS.
E. PROVIDED WITH ELECTRICAL DISCONNECT FOR INDOOR UNIT. PROVIDE ELECTRICAL DISCONNECT FOR OUTDOOR UNIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL PLANS FOR VOLTAGE AND PHASE.
F. PROVIDED WITH CRANKCASE HEATER, HARD START CAPACITOR AND RELAY
G. ELECTRIC HEAT TO BE LOCKED OUT WHEN THE HEAT PUMP CAN MEET THE LOAD, EXCEPT DURING DEFROST.

NUMBERED NOTES:

1. PROVIDE ENERGY CODE COMPLIANT, 7-DAY PROGRAMMABLE NEST THERMOSTAT WITH MANUAL CHANGEVER CONTROL, TIME-DELAY RELAY, AND ANTI-SHORT CYCLE CONTROLS. PROVIDE WITH VENTED, LOCKING COVER FOR THERMOSTATS LOCATED IN PUBLIC AREAS.
2. PROVIDED WITH MANUFACTURER LONG LINE REFRIGERANT KIT.
3. CRANKCASE HEATER.
4. LAT IS MEASURED AT COIL DISCHARGE.
5. PROVIDE STAINLESS STEEL DRAIN PAN.
6. PROVIDE CONDENSER COIL HAIL GUARDS.
7. PROVIDED WITH LOW AMBIENT CONTROLLER KIT AND EVAPORATOR FREEZE/STAT.
8. TWO-STAGE SCROLL COMPRESSOR.
9. MOTORS ARE PREMIUM EFFICIENCY.
10. REFER TO ELECTRICAL SHEETS FOR VOLTAGE AND PHASE.

DUCTLESS SPLIT SYSTEM SCHEDULE

MARK (INDOOR/OUTDOOR)	SERVICE	INDOOR UNIT			COOLING CAPACITY			HEAT PUMP CAPACITY			MAX. REFRIGERANT LENGTH		WEIGHT (LBS) (INDOOR/OUTDOOR)	MODEL (INDOOR/OUTDOOR)	NOTES	
		TYPE	SUPPLY (CFM)	OUTDOOR (CFM)	FAN MOTOR (W)	TOTAL (BTUH)	EAT (DB/WB °F)	EFFICIENCY (SEER)	TOTAL (BTUH)	EAT (DB/WB °F)	EFFICIENCY (HSPF)	TOTAL (FT)				VERTICAL (FT)
DFCUDHP-1	GROUP STUDY	CEILING CASSETTE	547	-	-	24.0	80.0	20.0	24.0	70.0	11.6	164.0	82.0	50/150	40MBCAQ24/38MARBG24	1.2,3
DFCUDHP-2	GROUP STUDY	CEILING CASSETTE	547	-	-	24.0	80.0	20.0	24.0	70.0	11.6	164.0	82.0	50/150	40MBCAQ24/38MARBG24	1.2,3
DFCUDHP-3	GROUP STUDY	CEILING CASSETTE	547	-	-	24.0	80.0	20.0	24.0	70.0	11.6	164.0	82.0	50/150	40MBCAQ24/38MARBG24	1.2,3
DFCUDHP-4	GROUP STUDY	WALL MOUNTED	870	-	-	30.0	80.0	16.5	32.0	70.0	9.6	164.0	82.0	55/175	40MAQB30 / 38MAQB30	1.2,3

BASIS OF DESIGN: CARRIER
ACCEPTABLE EQUALS: MITSUBISHI, DAIKIN, SANYO, SAMSUNG, LG, TRANE

GENERAL NOTES APPLICABLE TO ALL:

A. COOLING CAPACITY AND EFFICIENCY RATINGS BASED ON AHRI VALUES FOR EAT LISTED AND OUTDOOR UNIT EAT OF 95 °F. HEAT PUMP HEATING CAPACITY BASED ON OUTDOOR UNIT EAT OF 47 °F. SUPPLY AIRFLOW REFLECTED FOR HIGH SPEED OPERATION.
B. INVERTER COMPRESSOR, R-410A. PROVIDE AND INSTALL REFRIGERANT SUPPLY AND RETURN LINES PER MANUFACTURERS RECOMMENDATIONS.
C. REFER TO FLOOR PLANS FOR SYSTEM ORIENTATIONS.
D. CONDENSATE PIPING TO BE SIZED BASED ON UNIT CONNECTION, TRAPPED, AND ROUTED PER PLANS.
E. PROVIDED WITH ELECTRICAL DISCONNECT FOR INDOOR UNIT. PROVIDE ELECTRICAL DISCONNECT FOR OUTDOOR UNIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR. REFER TO ELECTRICAL PLANS FOR VOLTAGE AND PHASE.

NUMBERED NOTES:

1. PROVIDED WITH WALL MOUNTED WIRED/WIRELESS CONTROLLER. PROVIDE WITH VENTED, LOCKING COVER.
2. PROVIDED WITH CONDENSATE PUMP AND FAIL SAFE ALARM WIRED TO SHUTOFF DFCU WHEN CONDENSATE REACHES CRITICAL POINT. CONDENSATE PUMP WILL CONTINUE TO RUN AND ACTIVATE AUDIOVISUAL ALARM.
3. PROVIDED WITH CRANKCASE HEATER AND BASE PAN HEATER.



CONSULTANT LOGO



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SHEET TITLE:
SCHEDULES - MECHANICAL

SHEET NO. PROJ. NO. 023432

M004

FAN SCHEDULE

MARK	SERVICE	TYPE	CFM	ESP (IN WC)	MAX RPM	MAX HP	DRIVE	BASIS OF DESIGN: GREENHECK	NOTES
EF 1	STAFF RESTROOMS	CEILING	50	0.5"	730	80 Watts	DIRECT	SP-B110	1,2,3,4,5,6
EF 2	NURS/SENSORY	CEILING	50	0.5"	730	80 Watts	DIRECT	SP-B110	1,2,3,4,5,6
EF 3	FAMILY RESTROOM	CEILING	50	0.5"	730	80 Watts	DIRECT	SP-B110	1,2,3,4,5,6
EF 4	RESTROOM	INLINE	700	0.5"	1,080	1/2	DIRECT	SQ-120-VG	1,2,3,4,5,6

BASIS OF DESIGN: GREENHECK
 APPROVED EQUALS: PENN. COOK

- NOTES:**
- REFER TO ELECTRICAL SHEETS FOR VOLTAGE AND PHASE.
 - MANUFACTURER-PROVIDED DISCONNECT.
 - BACKDRAFT DAMPER
 - PROVIDE VIBRATION ISOLATION SUPPORTS.
 - SPEED CONTROLLER.
 - TIME CLOCK.

AIR DISTRIBUTION DEVICES SCHEDULE

MARK	SERVICE	FACE SIZE	NECK SIZE	NC	BASIS OF DESIGN	NOTES
A	SUPPLY	24" x 24"	SEE DWGS	<25	TITUS OMNI-AA	1,2,3
B	SUPPLY	48"	SEE DWGS	<25	TITUS FL-20	1,2,3
C	SUPPLY	SEE DWGS	SEE DWGS	<25	TITUS FL-20	1,2,3
D	SUPPLY	SEE DWGS	SEE DWGS	<25	TITUS FL-20	1,2,3
E	RETURN/EXHAUST/TRANSFER	24" x 24"	SEE DWGS	<25	TITUS 50F	1,2,3
F	RETURN/EXHAUST/TRANSFER	12" x 12"	SEE DWGS	<25	TITUS 50F	1,2,3
G	SUPPLY	SEE DWGS	SEE DWGS	<25	TITUS R-OMNI	1,2,3

BASIS OF DESIGN: TITUS
 ACCEPTABLE EQUALS: PRICE, NAILOR, TUTTLE & BAILEY, METALAIRE

- GENERAL NOTES:**
- FACE AND NECK SIZES ARE NOMINAL DIMENSIONS. ACTUAL DIMENSIONS SHALL BE VERIFIED WITH MANUFACTURE'S LITERATURE.
 - NC VALUES ARE BASED UPON MAXIMUM CFM SHOWN ON FLOOR PLANS.
 - NECK SIZE SHALL BE FULL SIZE OF CONNECTING DUCTWORK. REFER TO FLOOR PLAN FOR SIZES.
 - REFER TO ARCHITECTURAL AND ID DRAWINGS FOR CEILING TYPE TO DETERMINE DIFFUSER INSTALLATION REQUIREMENT.

- NUMBERED NOTES:**
- FINISH TO BE APPROVED BY ARCHITECT AND ID. PAINTED TO MATCH THE SURFACE THEY ARE MOUNTED ON, U.N.O.
 - ALUMINUM CONSTRUCTION
 - DUCT RUNOUT SIZE TO BE THE SAME AS NECK SIZE UNLESS OTHERWISE NOTED.

LOUVER SCHEDULE

MARK	SERVICE	WIDTH (IN)	HEIGHT (IN)	FREE AREA (SQ. FT.)	STYLE	BASIS OF DESIGN	NOTES
WL 1	EXHAUST	30	14	0.85	STATIONARY	ESD-635D	1,2,3
WL 2	EXHAUST	30	14	0.85	STATIONARY	ESD-635D	1,2,3

BASIS OF DESIGN: GREENHECK
 ACCEPTABLE EQUALS: RUSKIN, POTTORFF

GENERAL NOTES APPLICABLE TO ALL:

- FREE AREA VELOCITY OF EACH LOUVER TO BE AT LEAST 20% LESS THAN BEGINNING POINT OF TESTED WATER PENETRATION VELOCITY, IN ACCORDANCE WITH AMCA 500-L WATER PENETRATION AND AIR PERFORMANCE TESTING REQUIREMENTS AND AMCA 511.

- NUMBERED NOTES:**
- PROVIDE WITH BIRD SCREEN AND EXTENDED SILL
 - MIAMI-DADE APPROVED LOUVER
 - INSECT SCREEN.



CONSULTANT LOGO



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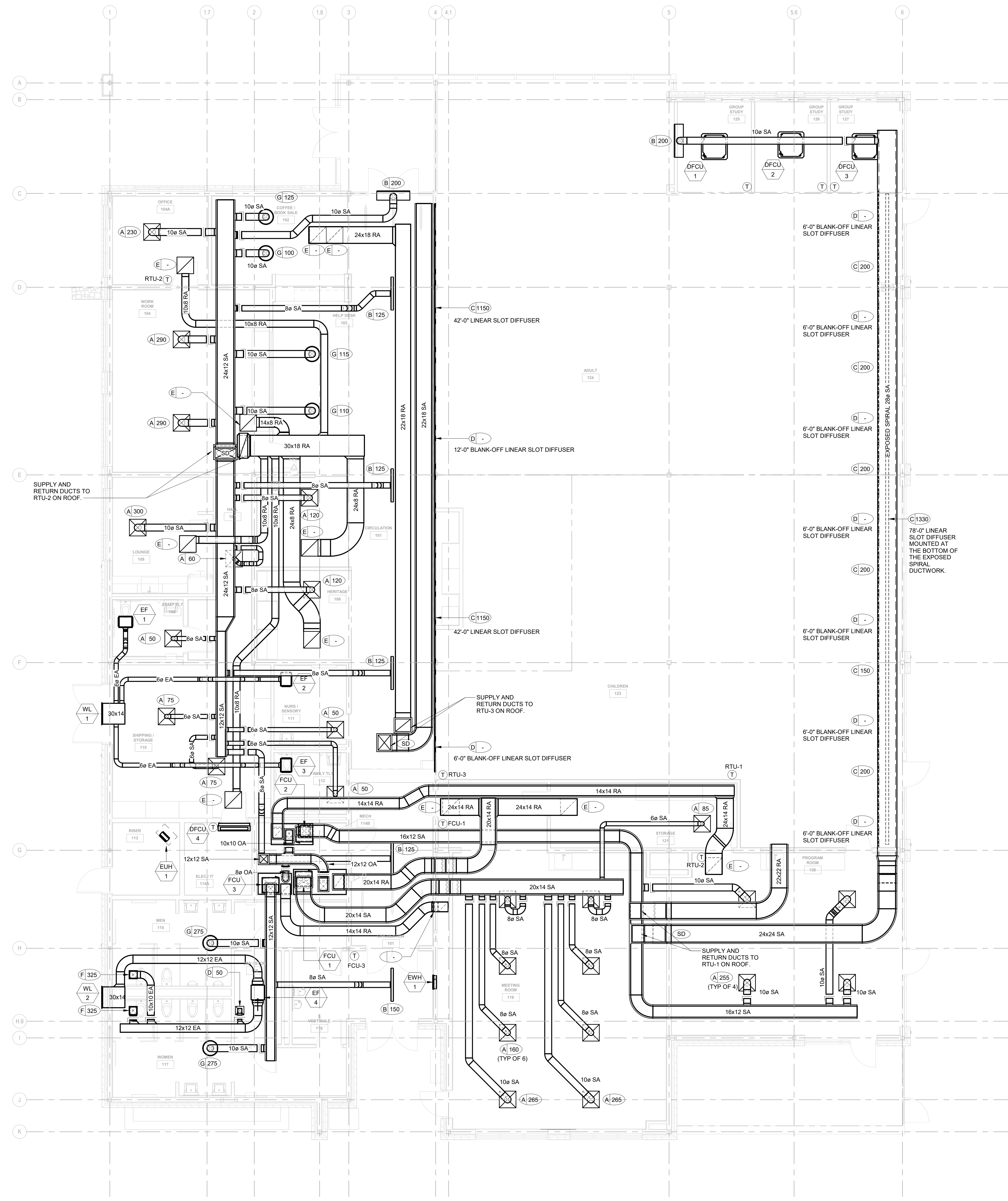
ISSUE DATE: 2024 06 28
 PHASE: CONSTRUCTION DOCUMENTS
 SHEET ISSUE:
 NO. DATE DESCRIPTION

PRINCIPAL IN CHARGE:
 PROJECT ARCHITECT:
 DRAWN BY: Author

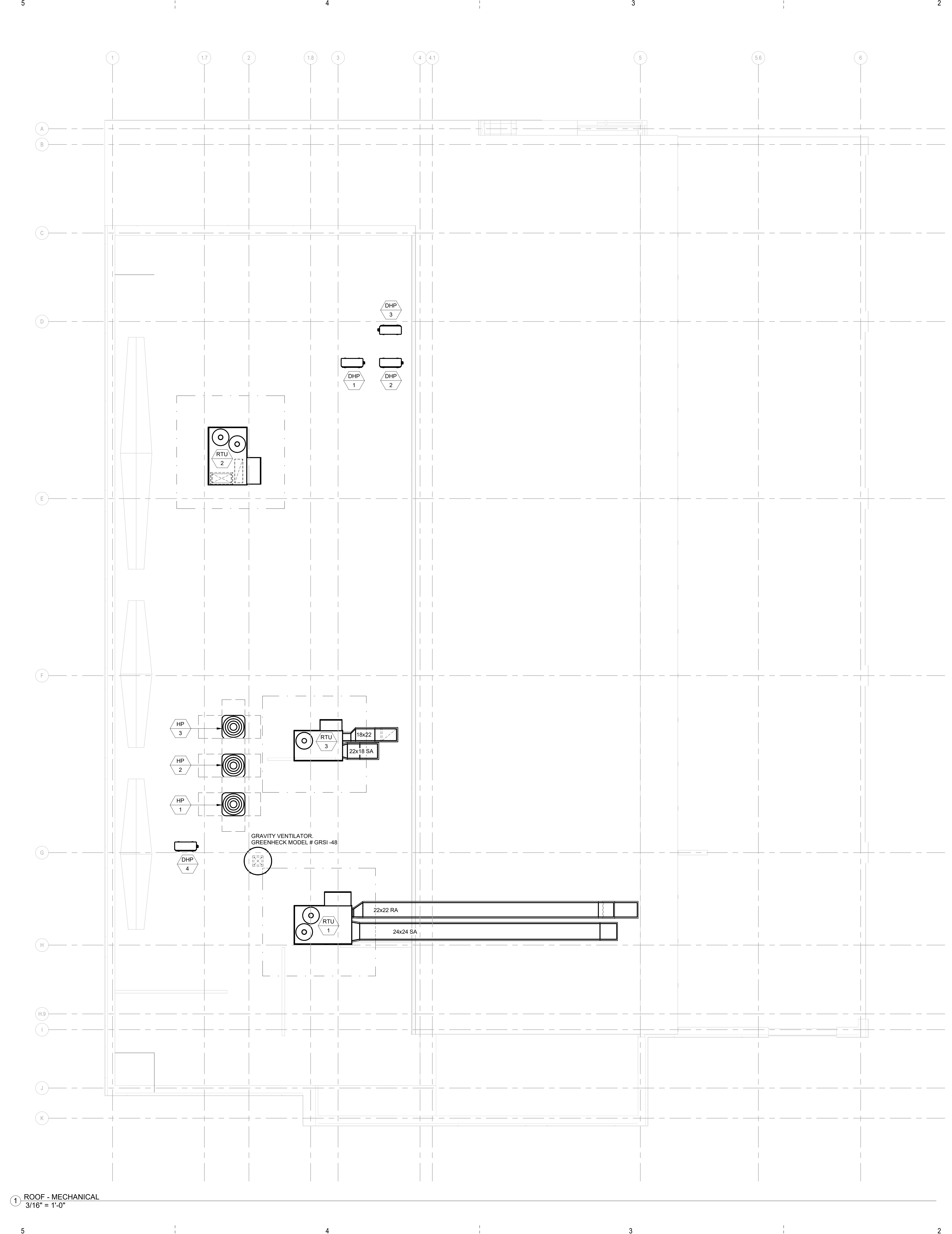
SHEET TITLE:
SCHEDULES - MECHANICAL

SHEET NO. PROJ. NO. 023432

M005



1 LEVEL 01 - MECHANICAL
3/16" = 1'-0"



1 ROOF - MECHANICAL
3/16" = 1'-0"

ABBREVIATIONS

Table with 4 columns: Symbol, Description, Symbol, Description. Includes entries for AMPERE, ALTERNATING CURRENT, AMPERE FRAME, etc.

ELECTRICAL LEGEND

Table with 2 columns: Symbol, Description. Includes entries for HOMERUN TO PANELBOARD, TWO (2) CIRCUIT HOMERUN TO PANELBOARD, THREE (3) CIRCUIT HOMERUN TO PANELBOARD, CONDUIT CONCEALED ABOVE CEILING, etc.

- NOTES: 1. PROVIDE HEAVY DUTY PULL WIRE IN ALL SERVICE AND DISTRIBUTION CONDUITS. 2. PROVIDE PULL STRING IN ALL BRANCH CIRCUIT CONDUITS.

LIGHTING AND CONTROLS NOTES

- 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL LIGHTING LAYOUTS AND CEILING TYPE/ELEVATIONS. 2. REFER TO LIGHTING DESIGNER DRAWINGS, SCHEDULES, AND SPECIFICATIONS FOR LIGHT FIXTURES AND CONTROLS REQUIREMENTS.

INTERIOR AND LANDSCAPE

- 1. PRIOR TO ROUGH-IN, REFER TO INTERIOR DESIGN (ID) AND LANDSCAPE (L) DRAWINGS, SCHEDULES AND ELEVATIONS FOR LOCATION OF OUTLETS/DEVICES, MOUNTING HEIGHTS AND ADDITIONAL INFORMATION, AND PROVIDE ACCORDINGLY.

DECORATIVE LIGHTING NOTES

- 1. REFER TO INTERIOR AND LIGHTING DESIGNER DRAWINGS AND SCHEDULES FOR EXACT LOCATION, FIXTURE TYPE, ROUGH-INS, MOUNTING, CIRCUITRY, CONTROLS AND ASSOCIATED PROVISIONS. CONTRACTOR SHALL REVIEW AND COORDINATE DECORATIVE LIGHTING CONTROLS AND WIRING WITH LIGHTING DESIGNER, AND PROVIDE ACCORDINGLY.

SITE AND LANDSCAPE LIGHTING NOTES

- 1. REFER TO LANDSCAPE DRAWINGS AND SCHEDULES FOR EXACT LOCATION AND REQUIREMENTS OF ALL FIXTURE TYPES, ROUGH-INS, BRANCH CIRCUITRY, CONTROLS AND ASSOCIATED PROVISIONS. CONTRACTOR SHALL REVIEW AND COORDINATE ALL UNDER SLAB/GROUND ROUGH-INS, STUB-UP LOCATIONS, AND MOUNTING REQUIREMENTS WITH LANDSCAPE CONSULTANT, AND PROVIDE ACCORDINGLY.

DIV. 23 & DIV.22 EQUIPMENT NOTES

- 1. ALL EQUIPMENT DISCONNECTS ARE TO BE VERIFIED WITH APPROVED SHOP DRAWINGS AND ITS RESPECTIVE TRADE DRAWINGS/SCHEDULES. UNO UNLESS NOTED OTHERWISE, CONTRACTOR SHALL COORDINATE ELECTRICAL AND FIRE ALARM REQUIREMENTS WITH EACH DISCIPLINE'S CONTRACTOR, AND PROVIDE ACCORDINGLY.

LOW VOLTAGE AND SECURITY NOTES

- 1. REFER TO LOW VOLTAGE CONSULTANT T-SERIES' DRAWINGS, RISERS AND DETAILS FOR EXACT LOCATION AND ROUGH-IN REQUIREMENTS OF ALL OUTLETS, RECEPTACLES, BACKBOARDS, GROUNDING, CONDUITS AND SLEEVES, NEMA CODES, CONFIRM WIRING, DEMARC AND SERVICE ENTRANCES), MEDIA-HUB, CONTROL PANELS, CARD READERS, CCTV, DISPLAYS, DOOR CONTACTS, ACCESS CONTROLS, AND ASSOCIATED 208/120VAC POWER PROVISIONS.

ENERGY CODE NOTES

- 1. PROVIDE PROPER INSTALLATION OF ENERGY CONSERVATION MEASURES AND ASSOCIATED COMPONENTS IN COMPLIANCE WITH ADOPTED LOCAL ENERGY CODE AND AHJ.

FIRE ALARM NOTES

- 1. FIRE ALARM SYSTEM FOR THIS PROJECT SHALL BE PROVIDED BY BIDDER DESIGN SUB-CONTRACTOR AT THE EXPENSE OF ELECTRICAL CONTRACTOR. FIRE ALARM DESIGN SHALL BE DONE UNDER SEPARATE PERMIT, WHERE REQUIRED BY AHJ. FIRE ALARM DESIGN BUILD ENGINEER/CONSULTANT SHALL BE RESPONSIBLE FOR SHOP DRAWINGS, POINT-TO-POINT WIRING DIAGRAMS, VOLTAGE DROP AND DEVICE IO CALCULATIONS. SUBMITTAL TO FIRE MARSHALL AND AHJ FOR APPROVAL. PROVIDE COMPLETE FIRE ALARM TO MEET CODE.

ELECTRICAL LEGEND

Table with 2 columns: Symbol, Description. Includes entries for LIGHT FIXTURE SUBSCRIPTS, LINEAR LIGHT FIXTURE, EMERGENCY LINEAR LIGHT FIXTURE, WALL-MOUNTED LIGHT FIXTURE, EMERGENCY WALL-MOUNTED LIGHT FIXTURE, LIGHTING TRACK AND TRACK LIGHTING, WALL-MOUNTED LIGHT FIXTURE, EMERGENCY WALL-MOUNTED LIGHT FIXTURE, DOWNLIGHT, EMERGENCY DOWNLIGHT, EXIT SIGN, COMBINATION EXIT SIGN AND EMERGENCY LIGHT, WALL-MOUNTED EMERGENCY BATTERY BACKUP FIXTURE, SWITCH, SPST FOR TOGGLE SWITCHES AND DIGITAL FOR LOW VOLTAGE SWITCHES, ANY COMBINATION OF SWITCH TYPES CAN BE USED, DUAL ZONE CEILING-MOUNTED DAYLIGHT SENSOR, LIGHTING FIXTURE SCHEDULE, LIGHT FIXTURE TAG, LIGHTING ZONES/RELAY, EMERGENCY LIGHTING FIXTURE SCHEDULE, EMERGENCY LIGHTING FIXTURE SCHEDULE, WALL-MOUNTED LIGHT FIXTURE, EMERGENCY WALL-MOUNTED LIGHT FIXTURE, LIGHTING TRACK AND TRACK LIGHTING, WALL-MOUNTED LIGHT FIXTURE, EMERGENCY WALL-MOUNTED LIGHT FIXTURE, DOWNLIGHT, EMERGENCY DOWNLIGHT, EXIT SIGN, COMBINATION EXIT SIGN AND EMERGENCY LIGHT, WALL-MOUNTED EMERGENCY BATTERY BACKUP FIXTURE, SWITCH, SPST FOR TOGGLE SWITCHES AND DIGITAL FOR LOW VOLTAGE SWITCHES, ANY COMBINATION OF SWITCH TYPES CAN BE USED, DUAL ZONE CEILING-MOUNTED DAYLIGHT SENSOR.

- NOTES: 1. ALL LIGHTING BRANCH CIRCUITS SHALL BE MINIMUM #10 AWG, UNLESS NOTED OTHERWISE OR REQUIRING UPSIZE CONDUCTORS TO ACCOMMODATE VOLTAGE DROP. CONTRACTOR SHALL UPSIZE CONDUCTORS PER ACTUAL BRANCH CIRCUIT LENGTH TO MAINTAIN 3% VOLTAGE DROP. 2. PROVIDE DEDICATED PHASE CONDUCTOR FOR ALL EXIT SIGNS, EMERGENCY BATTERY BACKUP FIXTURES AND LIGHT FIXTURES WITH BATTERY BACKUP. CONNECT AHEAD OF LIGHTING CONTROL(S). 3. NOT ALL LIGHTING CONTROL DEVICES ARE LISTED WITH LIGHTING ZONES. REFER TO LIGHTING PLANS FOR ALL LIGHTING ZONES INDICATED WITH LOW-CASE LETTER AS PART OF BRANCH CIRCUIT DESIGNATION. PROVIDE ALL LIGHTING CONTROLS AND WIRING ACCORDINGLY TO ACCOMMODATE ALL LIGHTING ZONES.

GENERAL NOTES

- A. CAPITAL LETTER BESIDE LIGHTING SYMBOL INDICATES FIXTURE TYPE. REFER TO LIGHTING FIXTURE SCHEDULE FOR FIXTURE SELECTION. B. EQUIPMENT GROUNDING CONDUCTORS ARE TO BE INCLUDED IN ALL RACEWAYS AND CABLES. C. REFER TO SPRINKLER FIRE PROTECTION SHOP DRAWINGS FOR ALL FLOW AND TAMPER SWITCH LOCATIONS AND CONNECTIONS FOR THE FIRE ALARM SYSTEM. D. REFER TO ARCHITECTURAL DOOR SCHEDULES FOR DOORS REQUIRING FIRE ALARM SYSTEM INTERFACE AND SMOKE OPERATION. PROVIDE 120V POWER AND FIRE ALARM CONNECTION TO ALL FIRE/SMOKE AND SMOKE DAMPERS INDICATED ON THE MECHANICAL DRAWINGS. WHERE ANY DAMPER IS EQUIPPED WITH INTEGRAL SMOKE DETECTOR, PROVIDE A ZONE ADDRESSABLE MODULE FOR CONNECTION TO FIRE ALARM SYSTEM WIRING. E. ANY CABLE ROUTED TO A WALL SWITCH CONTROLLING LIGHTING SHALL CONTAIN A GROUNDED CONDUCTOR (NEUTRAL). IN ADDITION TO AN EQUIPMENT GROUNDING CONDUCTOR, SWITCHES IN ROOMS WITH ACCESSIBLE CEILING GIVING ACCESS TO OPEN WALL CAVITIES. CONTRACTOR SHALL ENSURE TO THE GREATEST EXTENT POSSIBLE THAT LOADS ON THE ELECTRICAL DISTRIBUTION SYSTEM ARE PHASE-BALANCED. WHERE MULTI-METER PACKS ARE INSTALLED, EQUIPMENT LOGS SHALL BE ADJUSTED ACCORDINGLY TO BALANCE PHASES. G. WHERE CIRCUIT BREAKERS OR FUSES ARE SERIES COMBINATION RATED, THE ENCLOSURE FOR THE OVERCURRENT DEVICES SHALL BE CLEARLY AND LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE THE FOLLOWING: CAUTION - SERIES COMBINATION SYSTEM RATED AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED. H. ALL EXIT SIGNS ARE TO BE PROVIDED WITH CODE REQUIRED EMERGENCY BATTERY BACKUP. IN ADDITION, PROVIDE LIGHT FIXTURES WITH CODE REQUIRED BATTERY BACKUP OR EMERGENCY LIGHTING INVERTERS SERVING EGRESS PATH AREAS PER ARCHITECTURAL LIFE-SAFETY PLAN AND AHJ REQUIREMENTS. (MINIMUM DURATION OF 90 MINUTES OR AS REQUIRED PER AHJ). CONNECT ALL EXIT SIGNS AND EMERGENCY BATTERY BACKUP PROVISIONS AHEAD OF LIGHTING CONTROLS VIA DEDICATED PHASE CONDUCTOR. I. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTION TO EQUIPMENT. J. ALL PENETRATIONS INCLUDING CONDUITS AND SLEEVES OF FIRE RATED WALL, FLOORS, PARTITIONS, AND ASSEMBLIES SHALL BE FIRE-STOPPED WITH A UL RECOGNIZED PRODUCT RESTORING THE INTEGRITY OF THE BARRIER PENETRATED. PROVIDE A UL # LABEL AT EACH PENETRATION. K. GENERAL ELECTRICAL LOW VOLTAGE SYSTEM CABLING, FIRE ALARM, AND LIGHTING CONTROLS SHALL NOT BE COMBINED WITH TELECOMMUNICATIONS AND SECURITY CABLING PATHWAYS. PROVIDE INDEPENDENT CABLING SUPPORT SYSTEMS. L. PRIOR TO START OF WORK, PERFORM AND HOLD ON-SITE COORDINATION MEETING WITH UTILITY AND SERVICE PROVIDERS AND VERIFY THE LOCATION AND REQUIREMENTS OF SERVICES INCLUDING SERVICE DEMARCS AND LATERAL LINE(S). M. COMPLETION OF WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE PROJECT SCHEDULE. CONTRACTOR IS RESPONSIBLE TO SCHEDULE INSTALLATION WITH OTHER TRADES AND DISCIPLINES TO ENSURE PROJECT MILESTONES ARE MET IN A SATISFACTORY FASHION. N. COORDINATE ALL LIGHT FIXTURE MOUNTING AND ROUGH-IN REQUIREMENTS WITH ARCHITECTURAL AND INTERIOR DESIGNER REFLECTED CEILING PLANS AND SCHEDULES. O. COORDINATE ALL LIGHT FIXTURE MOUNTING AND ROUGH-IN REQUIREMENTS WITH ARCHITECTURAL AND INTERIOR DESIGNER REFLECTED CEILING PLANS AND SCHEDULES. P. RECEPTACLES MOUNTED ABOVE COUNTER OR BELOW STANDARD HEIGHT SHALL BE COORDINATED WITH ARCHITECTURAL AND INTERIOR DESIGNER TO AVOID CONFLICTS WITH FINISHES AND MILLWORK SURFACES. Q. COORDINATE AND INSTALL DEVICES INCLUDING MECHANICAL T-STAT AND FIRE ALARM DEVICES TO THE POWER WHERE THE BRANCH CIRCUIT ORIGINATES AS LIGHT SWITCHES WHERE POSSIBLE. R. PROVIDE CODE REQUIRED GROUNDING INCLUDING TELECOMMUNICATION PANEL AND GROUNDING BAR PER CODE AND SERVICE PROVIDER REQUIREMENTS. REFER TO LOW VOLTAGE DRAWINGS AND COORDINATE WITH DIVISION-27 CONTRACTOR. S. ADJACENT SWITCHES AND OUTLETS SHALL BE INSTALLED UNDER COMMON GANGABLE BACKBOX AND COVER-PLATE. T. ALL MATERIAL SHALL BE NEW AND UL APPROVED AND LABELED. U. UNLESS OTHERWISE NOTED, ALL INTERIOR CONDUIT SHALL BE IN MINIMUM 3/4" EMT WITH SET-SCREW FITTINGS. CONDUIT BELOW SLAB OR GRADE SHALL BE MINIMUM RIGID CONDUIT OR PVC. EXTERIOR CONDUIT ABOVE GRADE SHALL BE MINIMUM 3/4" RIGID OR IMC. WHERE CONDUIT TRANSITIONS FROM BELOW SLAB OR GRADE TO ABOVE SLAB OR GRADE, PROVIDE RIGID ELBOWS AND RIGID WIPPLES. FLEXIBLE METAL CONDUIT SHALL BE USED FOR CONNECTIONS TO LIGHT FIXTURES (NO LONGER THAN 6 FEET) OR FOR CONNECTION TO VIBRATING EQUIPMENT SUCH AS MOTORS OR TRANSFORMERS (NO LONGER THAN 3 FEET). WHERE INSTALLED OUTSIDE OR IN AREAS SUBJECT TO WATER, PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT.

ELECTRICAL LEGEND

Table with 2 columns: Symbol, Description. Includes entries for FIRE ALARM CONTROL PANEL, FIRE ALARM ANNUNCIATOR PANEL, FIRE ALARM PULL STATION, FIRE ALARM HORN/STROBE, FIRE ALARM HORN/STROBE - CEILING-MOUNTED, FIRE ALARM STROBE ONLY - CEILING-MOUNTED, FIRE ALARM PHOTOELECTRIC SMOKE DETECTOR, FIRE ALARM HEAT DETECTOR, SPRINKLER SYSTEM FLOW SWITCH, SPRINKLER VALVE SUPERVISORY SWITCH, FIRE ALARM DUCT SMOKE DETECTOR, FIRE ALARM WALL-MOUNTED MAGNETIC DOOR HOLDER, SPRINKLER SYSTEM POST INDICATOR VALVE TAMPER SWITCH.

- NOTES: 1. FIRE ALARM IS DESIGN BUILT UNDER ELECTRICAL CONTRACTOR EXPENSE. REFER TO FIRE ALARM NOTES ON SHEET EQ-02. 2. CONTRACTOR SHALL INSTALL ALL FIRE ALARM SYSTEMS, DEVICES AND FIXTURES PER FIRE ALARM ENGINEER STAMPED AND SEALED DRAWINGS. 3. CONTRACTOR SHALL SECURE ALL PERMITS AND AHJ REQUIRED DOCUMENTS TO ACCOMMODATE COMPLETE AND CODE COMPLIANT SYSTEM.

GENERAL NOTES

- 1. THE WORD "PROVIDE" MEANS TO FURNISH, INSTALL, AND CONNECT WHERE USED ON THE DRAWINGS. 2. ALL WORK SHALL CONFORM WITH CODES AND EDITION YEAR ADOPTED BY THIS JURISDICTION. REFER TO ARCHITECTURAL CODE SUMMARY SHEET AND INFORMATION. 3. REFER TO ONE-LINE (OR RISER) DIAGRAM FOR FEEDER SIZES FOR PANELBOARDS. 4. WHEN CONDUCTOR OR CONDUIT SIZE IS INDICATED FOR BRANCH CIRCUIT HOMERUN, THE CONDUCTOR AND CONDUIT SIZE INDICATED SHALL BE USED FOR THE ENTIRETY OF CIRCUIT. 5. REFER TO THE APPROPRIATE DRAWINGS (INCLUDING ARCHITECTURAL DRAWINGS) FOR THE EXACT LOCATION OF EQUIPMENT INSTALLED UNDER OTHER TRADES AND DIVISIONS OF THE DOCUMENTS WHICH REQUIRE ELECTRICAL SERVICE AND ROUGH-INS. 6. OVERCURRENT PROTECTION, WIRE SIZE AND NUMBER OF CONNECTION POINTS FOR MECHANICAL HVAC EQUIPMENT IS FOR ITEMS AS SPECIFIED. COORDINATE WITH MECHANICAL CONTRACTOR AND MAKE NECESSARY CHANGES PRIOR TO INSTALLATION FOR ACTUAL EQUIPMENT FURNISHED AT NO COST TO OWNER. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT. REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULES. 7. ALL JUNCTION BOX COVERPLATES SHALL BE LABELED. 8. ALL RECEPTACLES WITHIN SIX (6) FEET OF PLUMBING FIXTURES SHALL BE BRANCH CIRCUIT CONDUCTORS. THE WIRE SHALL BE GRAY OR BLACK WITH STAINLESS STEEL COVERPLATE. HEIGHT MEASURED TO CENTERLINE OF DEVICE. 9. EDGE OF LIGHT SWITCH WALL PLATE SHALL BE NOT MORE THAN 4" AWAY FROM METAL WOOD DOOR FRAME. TYPICAL FOR SINGLE OR MULTIPLE WALL SWITCHES. 10. BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER AND SHALL NOT BE SMALLER THAN NO. 12, UNO, WHERE BRANCH CIRCUIT CONDUCTOR RUNS FROM SOURCE (PANEL) TO THE LAST DEVICE ON THE CIRCUIT EXCEEDS 100 FEET IN LENGTH. THE CABLES FOR CONDUCTORS SHALL BE NO. 10, MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. FOR RUNS OVER 200 FEET IN LENGTH THE CONDUCTOR SHALL BE NO. 8, MINIMUM AND FOR THE ENTIRE LENGTH OF THE CIRCUIT. THE ABOVE APPLIES TO 120 VOLT CIRCUITS ONLY. 11. CONFIRM MOUNTING HEIGHTS AND COORDINATE LOCATION OF ALL OUTLETS, SWITCHES AND OTHER DEVICES WITH ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS OR FINISH LAYOUT PRIOR TO ROUGH-IN. 12. ALL MULTI-WIRE BRANCH CIRCUITS SHALL BE FED FROM BRANCH CIRCUIT BREAKERS THAT WILL SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED EQUIPMENT. REFER TO ELECTRICAL EQUIPMENT CONNECTION SCHEDULES TO COMPLY WITH NEC 210.4(B). 13. PROVIDE A NEUTRAL CONDUCTOR IN EVERY SWITCH-LEG FOR CURRENT OR FUTURE USE WITH OCCUPANCY SENSORS OR DIMMER SWITCHES. 14. PROVIDE SEAL FOR PENETRATION OF FIRE-RATED WALLS BY CONDUIT. SEE ARCHITECTURAL PLAN FOR RATED WALL LOCATIONS. 15. BACKBOX FOR PHOTOELECTRIC RATED WALLS SHALL BE LOCATED A MINIMUM OF 24" ON CENTER. IF NOT POSSIBLE, PROVIDE CODE REQUIRED WALL OPENING PROTECTIVE MATERIAL(S) IN ACCORDANCE WITH CODE AND AHJ. 16. FIRE ALARM SYSTEM FOR THIS PROJECT SHALL BE PROVIDED BY BIDDER DESIGN SUB-CONTRACTOR AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR. CONTRACTOR MAY USE FIRE ALARM SCOPE SHOWN ON ELECTRICAL DRAWING SET AND DIVISION-28 SPECIFICATIONS AS A DESIGN GUIDE ONLY. PROVIDE A COMPLETE FIRE ALARM SYSTEM IN ACCORDANCE WITH CODE AND AHJ. (FIRE ALARM DESIGN SHALL BE DONE UNDER SEPARATE PERMIT, WHERE REQUIRED BY AHJ.) FIRE ALARM DESIGN CONSULTANT AND BIDDING CONTRACTOR ARE RESPONSIBLE FOR SHOP DRAWINGS, POINT TO POINT WIRING DIAGRAMS AND CALCULATIONS, AND SECURE FIRE MARSHALL AND AHJ APPROVAL PRIOR TO START OF WORK. 17. FIRE ALARM SYSTEM BATTERIES SHALL BE MARKED WITH THE MONTH AND YEAR OF MANUFACTURE. WHERE BATTERY IS NOT MARKED BY THE MANUFACTURER, INSTALLER SHALL OBTAIN THE DATE CODE AND MARK THE BATTERY ACCORDINGLY. ALL WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS AND FIRE ALARM ENGINEER APPROVED SHOP DRAWINGS. 18. GROUND RODS SHALL BE 3/4" COPPER CLAD STEEL RODS 10'-0" IN LENGTH. THE TOP OF THE GROUND ROD SHALL BE TWELVE (12) INCHES BELOW FINISHED GRADE. CONNECTION TO THE GROUND ROD SHALL BE MADE BY EXOTHERMIC WELD PROCESS. 19. SERVICE ENTRANCE CONDUCTORS SHALL BE CONCRETE ENCASED WITH A MINIMUM OF 7 1/2" (ON CENTER) BETWEEN CONDUITS AND 3" OF CONCRETE ON ALL SIDES OF CONDUITS. 20. REFER TO ARCHITECTURAL DOOR SCHEDULES FOR DOORS REQUIRING FIRE ALARM SYSTEM INTERFACE AND SMOKE OPERATION. PROVIDE DEDICATED 120VAC BRANCH CIRCUIT AND FIRE ALARM CONNECTION TO ALL FIRE/SMOKE AND SMOKE DAMPER DEVICES. WHERE ANY DAMPER IS EQUIPPED WITH INTEGRAL SMOKE DETECTOR, PROVIDE A ZONE ADDRESSABLE MODULE FOR CONNECTION TO FIRE ALARM SYSTEM WIRING. 21. SMOKE DETECTOR, FIXTURES AND EQUIPMENT SHALL BE INSTALLED AND SHALL BE COORDINATED WITH APPROVED SHOP DRAWINGS. PRIOR TO PURCHASE AND ROUGH-IN, CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND PROVIDE ACCORDINGLY. PROVIDE PRICING AND INCLUDE IN BID BASED ON THESE ELECTRICAL DRAWINGS AND WITH TYPICAL SYSTEMS WHERE NOT SHOWN ON THESE DRAWINGS. 22. 208/120V CONDUCTORS SHALL BE COLOR-CODED WITH JACKET OR MARKING TAPE AS FOLLOWS: PHASE A - BLACK PHASE B - RED PHASE C - BLUE NEUTRAL - WHITE GROUND - GREEN 19. 480/277V CONDUCTORS SHALL BE COLOR-CODED WITH JACKET OR MARKING TAPE AS FOLLOWS: PHASE A - BROWN PHASE B - ORANGE PHASE C - YELLOW NEUTRAL - GRAY GROUND - GREEN 19. THE NEUTRAL OF ALL DRY-TYPE TRANSFORMERS SHALL BE GROUNDED. THE CONNECTION TO BUILDING STEEL SHALL BE MADE WITH A MECHANICAL TYPE CONNECTOR IN AN ACCESSIBLE LOCATION WHERE THE CONNECTION WILL NOT BE SUBJECT TO PHYSICAL ABUSE. GROUNDING CONDUCTOR SHALL BE INSULATED COPPER, SIZED AS SHOWN ON THE DRAWINGS.



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ISSUE DATE: 2024.06.28 PHASE: CONSTRUCTION DOCUMENTS SHEET ISSUE: NO. DATE DESCRIPTION C 2024.06.28 CONSTRUCTION DOCS PRICING

PRINCIPAL IN CHARGE: PROJECT ARCHITECT: DRAWN BY: EM

SHEET TITLE SHEET TITLE

SHEET NO. PROJ. NO. 025432

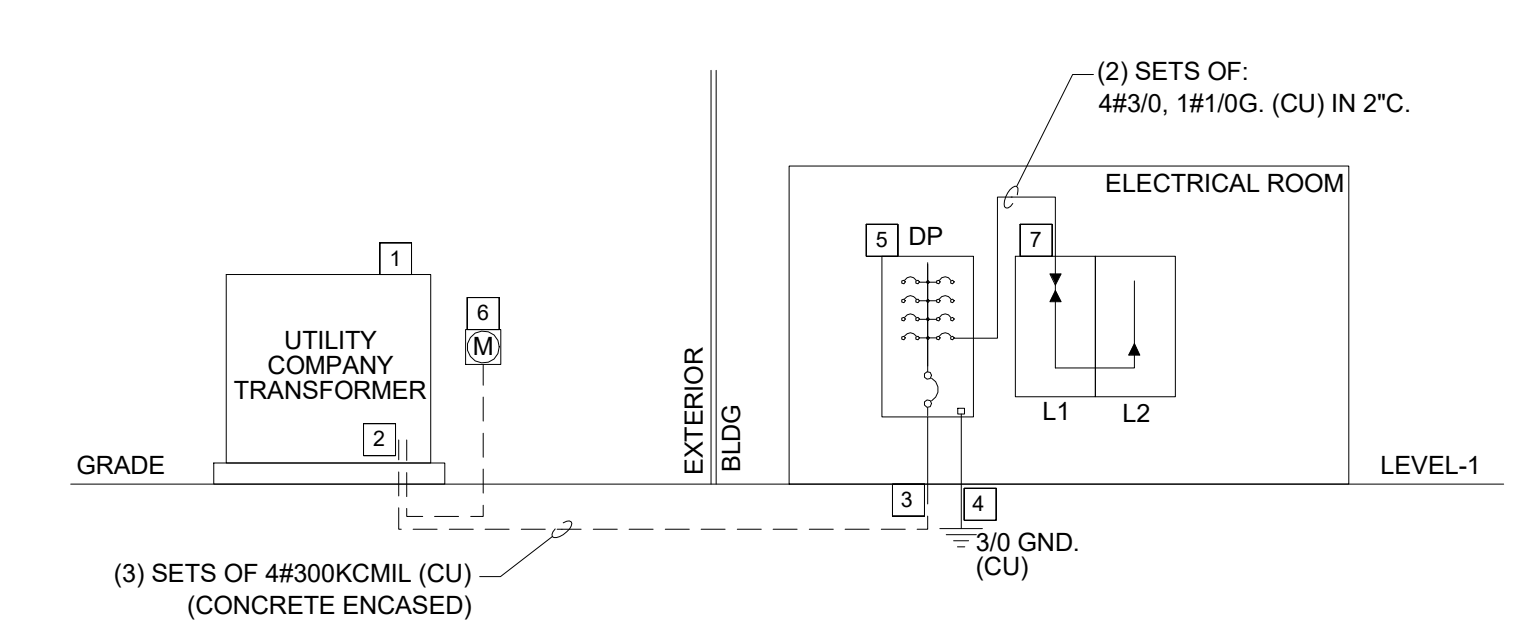
E001

Branch Panel: DP													
Location: ELEC / IT 114A				Volts: 120/208 Wye				A.I.C. Rating: 65,000					
Supply From: UTILITY TRANSFORMER				Phases: 3				Mains Type: MCB					
Mounting: FREE STANDING				Wires: 4				Mains Rating: 800 A					
Enclosure: NEMA 1								MCB Rating: 100% RATED					
Notes:													
NOTES	CKT	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	CKT	NOTES	
	1												
	3	Panel L1	400 A	3	12100	864			1	20 A	RP-1	2	
	5											4	
	7	DFCU/DHP-3	35 A	2	2600	2600			2	35 A	DFCU/DHP-2	6	
	9											8	
	11											10	
	13											12	
	15											14	
	17	HP-1	60 A	2		3651						16	
	19											18	
	21	HP-3	20 A	2	1394	2621			2	40 A	HP-2	20	
	23											22	
	25	RTU-1 GH	50 A	3	4680	4680						24	
	27											26	
	29											28	
	31	RTU-3 GH	45 A	3	4240				3	50 A	RTU-2 GH	30	
	33											32	
	35											34	
	37											36	
	39											38	
	41											40	
	43											42	
	45											44	
	47											46	
	49											48	
	51											50	
	53											52	
	55											54	
	57											56	
	59											58	
												60	
					Total Load:	35779 VA	35775 VA	37502 VA					
					Total Amps:	298 A	298 A	313 A					
Legend:													
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Cooling	66531 VA	100.00%	66531 VA										
Heating	4500 VA	100.00%	4500 VA	Total Conn. Load: 109055 VA									
Motor	864 VA	125.00%	1080 VA	Total Est. Demand: 94955 VA									
Other	180 VA	100.00%	180 VA	Total Conn.: 303 A									
Power	5500 VA	35.00%	1925 VA	Total Est. Demand: 264 A									
Receptacle	31480 VA	65.88%	20740 VA										
Notes:													
1. PROVIDE A 100% RATED BREAKER. 2. INIDE UNIT IS POWERED FROM OUTSIDE UNIT.													

Branch Panel: L1													
Location: ELEC / IT 114A				Volts: 120/208 Wye				A.I.C. Rating:					
Supply From: DP				Phases: 3				Mains Type: M.L.O.					
Mounting: Surface				Wires: 4				Mains Rating: 400 A					
Enclosure: Type 1								MCB Rating:					
Notes:													
NOTES	CKT	Load Name	Trip	Poles	A	B	C	Poles	Trip	Load Name	CKT	NOTES	
	1	Receptacle - Office 104A	20 A	1	1260	360			1	20 A	Recepts Fir - Adult	2	
	3	Receptacle - Coffee/Book Sale 102	20 A	1		360	720		1	20 A	Recepts - Group Study 125	4	
	5	Receptacle - Workroom Printer	20 A	1				2160	900	1	20 A	Recepts - Kiosk/Group Study 126	6
	7	Receptacle - Workroom Lobby	20 A	1	720	720			1	20 A	Recepts - Group Study 127	8	
	9	Receptacle - Workroom Cubicle A	20 A	1		720	860		1	20 A	Power - Floor outlet Adult 124	10	
	11	Receptacle - Workroom Cubicle B	20 A	1				720	540	1	20 A	Receptacle - Floor outlet Adult 124	12
	13	Receptacle - Workroom countertop	20 A	1	360	360			1	20 A	Recepts Fir - Adult & Children	14	
	15	Recepts - Loungie	20 A	1				540	1800	1	20 A	Receptacle - Near Copier	16
	17	Recept - Loungie Refrigerator	20 A	1				180	180	1	20 A	Recepts - Copier	18
	19	Recepts - Lounge Coffee Maker	20 A	1	3000	900			1	20 A	Recepts - Teen	20	
	21	Recept - Staff Tit	20 A	1				500	860	1	20 A	Power - Floor outlet Children 123	22
	23	Receptacles - Help Desk 103	20 A	1				900	540	1	20 A	Receptacle - East wall	24
	25	Receptacles - Heritage 106	20 A	1	180	540			1	20 A	Recepts - Children	26	
	27	Recepts - Nurs/Sensory	20 A	1				360	1260	1	20 A	Recepts - Meeting Rm/Storage	28
	29	Recepts - Teen Rm	20 A	1				1900	850	1	20 A	Projector/Projector Screen	30
	31	Receptacle - Mech/Elec/Jani	20 A	1	720	360			1	20 A	Recept - Mtg Rm (Sink)	32	
	33	Power - Family Tit	20 A	1				500	360	1	20 A	Receptacle - Program Room Countertop	34
	35	Drinking Fountain	20 A	1				1200	1080	1	20 A	Recepts - Program Rm	36
	37	Power - Men 115	20 A	1	500	500			1	20 A	Power - Alt-1 Divider	38	
	39	Power - Women 117	20 A	1				500	500	1	20 A	Power - Motoroad Grille	40
	41	Recepts - GFCI RR	20 A	1				720	360	1	20 A	Receptacle - GFCI outdoor South	42
	43	Recepts - Entry/Mech Rm	20 A	1	540	360			1	20 A	Receptacle - GFCI outdoor West	44	
	45	Receptacle - Charging Station	20 A	1				360	360	1	20 A	Receptacle - GFCI outdoor North	46
	47	Receptacle - Coffee/Book Sale USB	20 A	1				180	360	1	20 A	Receptacle - GFCI outdoor East	48
	49	Receptacle - Locker	20 A	1	180	540			1	20 A	Receptacles - Roof	50	
	51	Power - Help Desk	20 A	1				1720				52	
	53											54	
	55											56	
	57											58	
	59											60	
					Total Load:	12100 VA	12280 VA	12780 VA					
					Total Amps:	101 A	103 A	107 A					
Legend:													
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Other	180 VA	100.00%	180 VA										
Power	5500 VA	35.00%	1925 VA	Total Conn. Load: 37160 VA									
Receptacle	31480 VA	65.88%	20740 VA	Total Est. Demand: 22845 VA									
				Total Conn.: 103 A									
				Total Est. Demand: 63 A									
Notes:													

- ### GENERAL NOTES
- ONE LINE IS DIAGRAMMATIC AND INTENDED TO SHOW ELECTRICAL CONNECTIVITY OF MAJOR COMPONENTS. DIAGRAM IS NOT INTENDED TO SHOW EVERY CONNECTION, SPARE PROVISIONS, PHYSICAL ORIENTATION OF EQUIPMENT OR ACTUAL ROUTING OF CONDUIT AND CONDUCTORS. DIAGRAM MAY NOT SHOW ALL DEVICES WITHIN EACH PANELBOARD. REFER TO PANEL SCHEDULES FOR COMPLETE CONFIGURATION AND LISTING OF ALL DEVICES AND ASSOCIATED PROVISIONS.
 - THE ELECTRICAL SUB-CONTRACTOR IS RESPONSIBLE FOR VERIFYING WITH THE UTILITY COMPANY THE AVAILABLE FAULT CURRENT AT THE SECONDARY OF UTILITY TRANSFORMER. DETERMINE THE SERVICE LATERAL SIZE/ROUTE/LENGTH. PROVIDE AND PERFORM FAULT CURRENT CALCULATIONS TO ACCOMMODATE NEW ELECTRICAL SERVICE AND DISTRIBUTION SYSTEM IN ACCORDANCE WITH UTILITY COMPANY REQUIREMENTS AND AHJ.
 - THE ELECTRICAL SERVICE SHUNT TRIP KEYED CONTROL SWITCH OR ANY OTHER INITIATING SERVICE DEVICES ARE TO BE APPROVED BY UTILITY AND AHJ, INCLUDING LOCATION AND ACCESSIBILITY BY CITY FIRE DEPARTMENT.
 - ALL DISTRIBUTION EQUIPMENT SHALL BE LEGIBLY MARKED IN THE FIELD WITH THE MAXIMUM AVAILABLE FAULT CURRENT. THE FIELD MARKING(S) SHALL INCLUDE THE DATE THE FAULT CURRENT CALCULATION WAS PERFORMED AND BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED IN COMPLIANCE WITH CODE.
 - CONDUCTORS IN VERTICAL RACEWAYS SHALL BE SUPPORTED IN ACCORDANCE WITH NEC.
 - WHERE CIRCUIT BREAKERS OR FUSES ARE SERIES CONNECTED RATED, THE ENCLOSURE FOR THE OVERCURRENT DEVICES SHALL BE CLEARLY AND LEGIBLY MARKED IN THE FIELD TO INDICATE THE EQUIPMENT HAS BEEN APPLIED WITH A SERIES COMBINATION RATING. THE MARKING SHALL BE READILY VISIBLE AND STATE THE FOLLOWINGS: CAUTION - SERIES COMBINATION SYSTEM RATED ____ AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED.
 - PROVIDE METERING AND ASSOCIATED PROVISIONS PER UTILITY COMPANY STANDARDS. CLEARLY LABEL, IDENTIFY, AND INCLUDE PERMANENT SIGNAGE PER CODE AND AHJ.
 - CONTRACTOR SHALL PROVIDE A SHORT CIRCUIT AND PROTECTIVE STUDY TO VERIFY THE PROPOSED EQUIPMENT RATINGS AND PROTECTIVE DEVICE RATINGS. CONTRACTOR SHALL OBTAIN, IN WRITING, THE SHORT CIRCUIT VALUE AT THE MAIN SERVICE SWITCHBOARD FOR THE SPECIFIC PROJECT LOCATION FROM THE UTILITY.
 - PROVIDE ARC FLASH STUDY, WARNING MARKING, AND ARC ENERGY REDUCING FOR SERVICE EQUIPMENT, FUSES, AND CIRCUIT BREAKERS EXCEEDING 1200-AMPS OR HIGHER RATING OR ADJUSTABLE-TRIP IN ACCORDANCE WITH CODE AND AHJ.
 - PRIOR TO START OF WORK, VERIFY PHYSICAL DIMENSIONS AND AVAILABLE SPACE/AREA AT EACH ELECTRICAL EQUIPMENT AND PANELBOARD ROOM/SPACE, INCLUDING BUT NOT LIMITED TO ELECTRICAL AND EQUIPMENT ROOMS, PER PROPOSED MANUFACTURER SHOP DRAWINGS AND REPORT BACK TO EOR WITH ANY DISCREPANCIES OR CODE REQUIRED WORKING SPACE CONFLICTS.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL OTHER TRADES AND UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATER, SEWER, AND GAS INSTALLATIONS, AND PROVIDE COMPLETE SERVICE LATERAL(S) IN ACCORDANCE WITH AHJ.
 - ALL WORK SHALL CONFORM TO UL, NEC, NFPA, AND OTHER ADOPTED CODES AND REQUIREMENTS PER AHJ.
 - CONFIRM FIRE RATING WALLS AND ASSEMBLIES WITH ARCHITECTURAL AND STRUCTURAL PLANS AND SCHEDULES, AND PROVIDE ALL PENETRATIONS IN ACCORDANCE WITH CODE AND AHJ.
 - VOLTAGE DROP CALCULATIONS SHOWN ON SCHEDULES ON THIS SHEET ARE PRELIMINARY AND ACTUAL VOLTAGE DROP MAY DIFFER IN FIELD. CONTRACTOR SHALL VERIFY ALL VOLTAGE DROP VALUES PER ACTUAL FIELD INSTALLED LENGTH AND PROVISIONS, AND ADJUST FEEDERS AND BRANCH CIRCUITRY ACCORDINGLY TO MAINTAIN A 5% VOLTAGE DROP.

- ### KEYED NOTES
- UTILITY COMPANY TRANSFORMER/VAULT. PRIOR TO START OF WORK, COORDINATE EXACT LOCATION AND REQUIREMENTS WITH UTILITY COMPANY AND PROVIDE ACCORDINGLY.
 - ELECTRICAL SERVICE LATERAL TO UTILITY COMPANY TRANSFORMER PER UTILITY STANDARDS. PRIOR TO START OF WORK, COORDINATE SERVICE LATERAL PATHWAY AND ROUTING WITH ARCHITECTURAL AND STRUCTURAL. CONFIRM ALL REQUIREMENTS WITH UTILITY COMPANY ENGINEER, AND PROVIDE ACCORDINGLY. (CONCRETE ENCASED PER UTILITY AND AHJ.)
 - CONTRACTOR SHALL FURNISH, INSTALL AND TERMINATE SERVICE LATERAL FROM UTILITY TRANSFORMER TO SERVICE ENTRANCE EQUIPMENT PER UTILITY STANDARDS AND AHJ. REQUIREMENTS.
 - INSTALL GROUNDING SYSTEM PER CODE AND AHJ.
 - SERVICE ENTRANCE LISTED WITH SURGE SUPPRESSOR DEVICE, DIGITAL ENERGY METER (EXTERNAL E-MON-D-MON OR INTEGRAL MANUFACTURER) IN COMPLIANCE WITH CODE AND UTILITY COMPANY REQUIREMENTS AND STANDARDS.
 - PRIOR TO START OF WORK, CONFIRM UTILITY METER LOCATION AND REQUIREMENTS WITH UTILITY COMPANY, AND PROVIDE ACCORDINGLY.
 - PROVIDE WITH FEED THRU LUGS.



1 ELECTRICAL RISER DIAGRAM SCHEMATIC - NO SCALE



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SHEET TITLE:
ELECTRICAL ONE-LINE & SCHEDULES

SHEET NO. PROJ. NO. 023432

E002

MECHANICAL EQUIPMENT SCHEDULE							
TAG	DESCRIPTION	VOLTS	PH	PANEL DESIGNATION	BRANCH CIRCUIT	DISCONNECT	NOTES
DFCU/DHP-1	FAN COIL/HEAT-PUMP	208	1	SEE PANEL SCHEDULES	2#8,1#10G,-1°C.	60/2/3R	
DFCU/DHP-2	FAN COIL/HEAT-PUMP	208	1	SEE PANEL SCHEDULES	2#8,1#10G,-1°C.	60/2/3R	
DFCU/DHP-3	FAN COIL/HEAT-PUMP	208	1	SEE PANEL SCHEDULES	2#8,1#10G,-1°C.	60/2/3R	
FCU-1	FAN COIL UNIT	208	1	SEE PANEL SCHEDULES	2#3,1#8G,-2°C.	100/2	
FCU-2	FAN COIL UNIT	208	1	SEE PANEL SCHEDULES	2#4,1#10G,-1.5°C.	80/2	
FCU-3	FAN COIL UNIT	208	1	SEE PANEL SCHEDULES	2#8,1#10G,-1°C.	60/2	
HP-1	HEAT PUMP	208	1	SEE PANEL SCHEDULES	2#4,1#10G,-1°C.	60/2/3R	
HP-2	HEAT PUMP	208	1	SEE PANEL SCHEDULES	2#8,1#10G,-1°C.	60/2/3R	
HP-3	HEAT PUMP	208	1	SEE PANEL SCHEDULES	2#10,1#10G,-0.75°C.	30/2/3R	
RP-1	RECIRC. PUMP	120	1	SEE PANEL SCHEDULES	2#12,1#12G,-0.75°C.	5m	
RTU-1 GH	ROOF TOP UNIT	208	3	SEE PANEL SCHEDULES	3#4,1#10G,-1.5°C.	60/3/3R	
RTU-2 GH	ROOF TOP UNIT	208	3	SEE PANEL SCHEDULES	3#4,1#10G,-1.5°C.	60/3/3R	
RTU-3 GH	ROOF TOP UNIT	208	3	SEE PANEL SCHEDULES	3#4,1#10G,-1.5°C.	60/3/3R	
WH-1	WATER HEATER	208	1	SEE PANEL SCHEDULES	2#10,1#10G,-0.75°C.	30/2	

MECHANICAL EQUIPMENT SCHEDULE GENERAL NOTES:

- REFER TO MECHANICAL AND PLUMBING DRAWING AND SCHEDULES FOR EXACT LOCATION OF EQUIPMENT AND ROUGH-IN REQUIREMENTS. PRIOR TO ROUGH-IN, COORDINATE WITH DIVISION 22 AND DIVISION 23 CONTRACTOR, AND PROVIDE ACCORDINGLY.
- PROVIDE HACR RATED CIRCUIT BREAKER FOR ALL MECHANICAL EQUIPMENT.
- REFER TO MECHANICAL DRAWINGS AND SCHEDULES FOR TYPE OF CONTROL(S) FOR ALL FANS INCLUDING WALL MOUNTED CONTROLS.
- PROVIDE NEMA-3R (WEATHER-PROOF) UL LISTED DISCONNECT AND ELECTRICAL COMPONENTS FOR ALL EXTERIOR AND ROOF MOUNTED EQUIPMENT.
- PRIOR TO ROUGH-IN, VERIFY ALL EQUIPMENT ELECTRICAL REQUIREMENTS AND BRANCH CIRCUITRY WITH ACTUAL NAME-PLATE AND APPROVED SHOP DRAWINGS. ADJUST CIRCUIT BREAKER AND BRANCH CIRCUITRY PER MANUFACTURER'S RECOMMENDATIONS TO ACCOMMODATE COMPLETE AND FUNCTIONAL SYSTEM.
- PROVIDE LOCAL DISCONNECT SWITCH SIZED AND RATED FOR ASSOCIATED EQUIPMENT PER CODE AND MANUFACTURER'S RECOMMENDATIONS. MAKE FINAL CONNECTION TO ALL EQUIPMENT AND ASSOCIATED COMPONENTS TO ACCOMMODATE COMPLETE INSTALLATION.
- PRIOR TO ROUGH-IN, COORDINATE ALL EQUIPMENT WITH ITS RESPECTIVE DIVISION CONSULTANT FOR MANUFACTURER FURNISHED DISCONNECT, 120VAC SERVICE RECEPTACLE, ETC., AND PROVIDE ACCORDINGLY.

MECHANICAL EQUIPMENT SCHEDULE NOTES:

- DISCONNECT FINISHED BY MANUFACTURER, INSTALLED BY DIVISION 26. COORDINATE WITH ITS RESPECTIVE DIVISION CONTRACTOR.
- CONFIRM FIRE ALARM DEVICE REQUIREMENTS WITH MECHANICAL DRAWINGS AND APPROVED SHOP DRAWINGS. PRIOR TO ROUGH-IN, COORDINATE WITH DIVISION 23 AND DIVISION 23 CONTRACTORS, AND PROVIDE ACCORDINGLY.
- EQUIPMENT FINISHED WITH 120VAC SERVICE RECEPTACLE. PRIOR TO ROUGH-IN, CONFIRM SERVICE RECEPTACLE BRANCH CIRCUITRY REQUIREMENTS, AND PROVIDE ACCORDINGLY. IN THE EVENT SERVICE RECEPTACLE IS NOT SERVED VIA EQUIPMENT, PROVIDE A SEPARATE 120VAC BRANCH CIRCUIT AND CONNECT TO NEAREST NON-DEDICATED RECEPTACLE BRANCH CIRCUIT IN SAME AREA.
- CONFIRM ECM/VFD WITH DIVISION 23 AND PROVIDE ELECTRICAL DISCONNECT AND ASSOCIATED PROVISIONS ACCORDINGLY.

LIGHT FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	WATTAGE	VOLTAGE
A	LUMINIS	HC1600 L4L90 UL420 VOLTAGE WHT	130W	UNV
B4	VOODE	707-Z2 SL 4 48 MOUNTING /Z SO 40 F6 WH	27W	UNV
B8	VOODE	707-Z2 SL 8 96 MOUNTING /Z SO 40 F6 WH	52W	UNV
C16	LUMENWERX	VIA3R D HLO FH SW 80CRI 500 40K 16FT UNV D1 1C XX W	65W	UNV
C28	LUMENWERX	VIA3R D HLO FH SW 80CRI 500 40K 28FT UNV D1 1C XX W	114W	UNV
D5	LUMENWERX	VIA3 P DI HLO FH WIO2 SE 80CRI 500LMF 350LMF 40K 5' UNV D1 1C ACSXX B	27W	UNV
D8	LUMENWERX	VIA3 P DI HLO FH WIO2 SE 80CRI 500LMF 350LMF 40K 8' UNV D1 1C ACSXX B	52W	UNV
D16	LUMENWERX	VIA3 P DI HLO FH WIO2 SE 80CRI 500LMF 350LMF 40K 20' UNV D1 1C ACSXX B	104W	UNV
F1	LUMENWERX	AE4RR TLMP SW OF ASB UNV 14W D1 /AE4RRB SW 14W 50DEG 2STP 90CRI 40K LSDL TLMP FTMW	14W	UNV
F2	LUMENWERX	AE4RR TRM SW OF ASB UNV 14W D1 /AE4RRB SW 14W 50DEG 2STP 90CRI 40K LSDL TRM FTMW	14W	UNV
G	OXYGEN	3-5004-15	16W	UNV
J	LITHONIA	STAK 1X4 5000LM 90CRI 40K COL MIN10 MVOLT	42W	UNV
K	LITHONIA	CSS L48 ALO3 MVOLT SWW3 80CR /5000LM 4000K	42W	UNV
OA	LUMINIS	SYP402-L1L30-*OPTICS*-K40-277V-*FINISH*	30W	277V
OB	LUMINIS	CT180-L2L55	65W	UNV
X	LIGHTALARMS	6UENGM	5W	UNV



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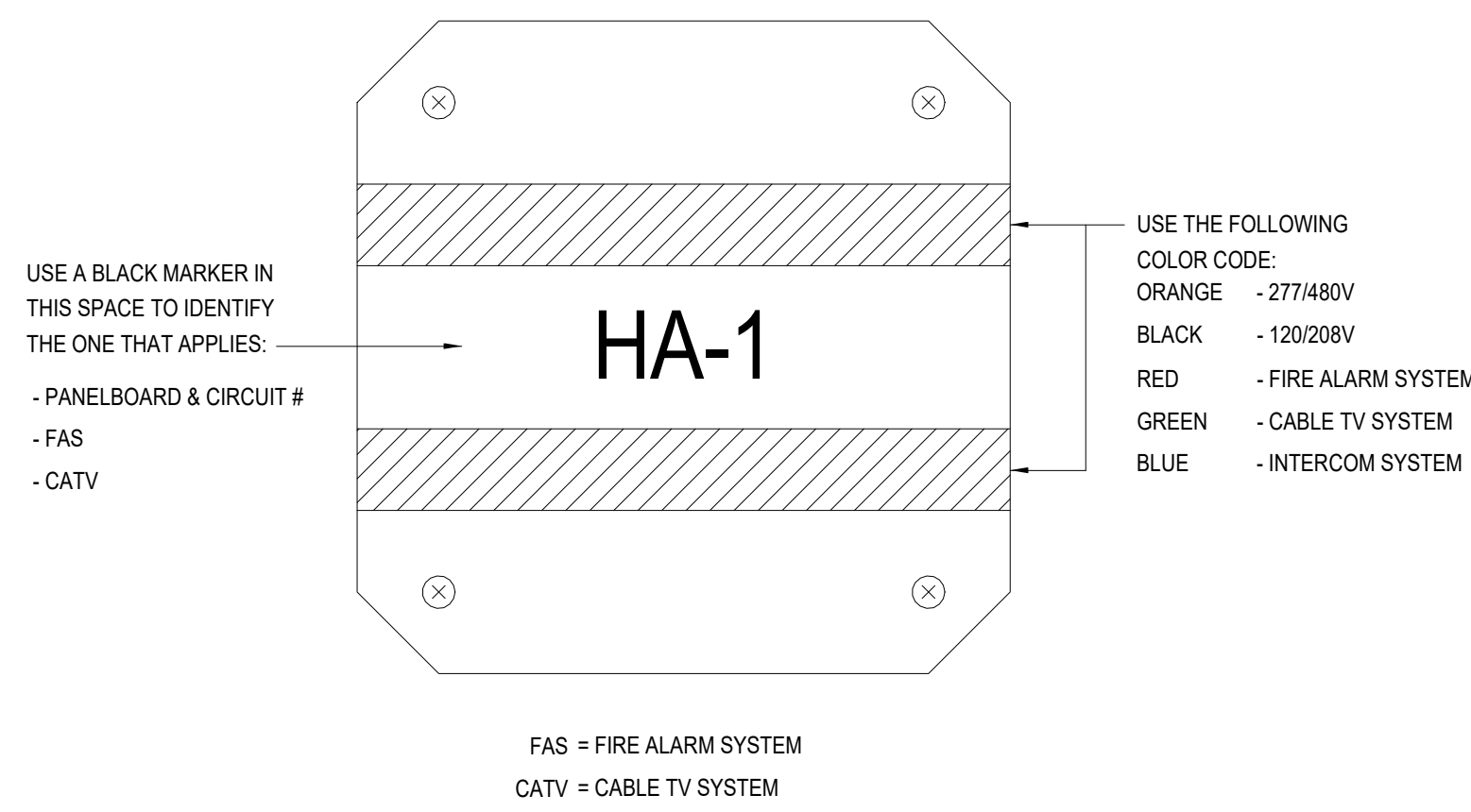
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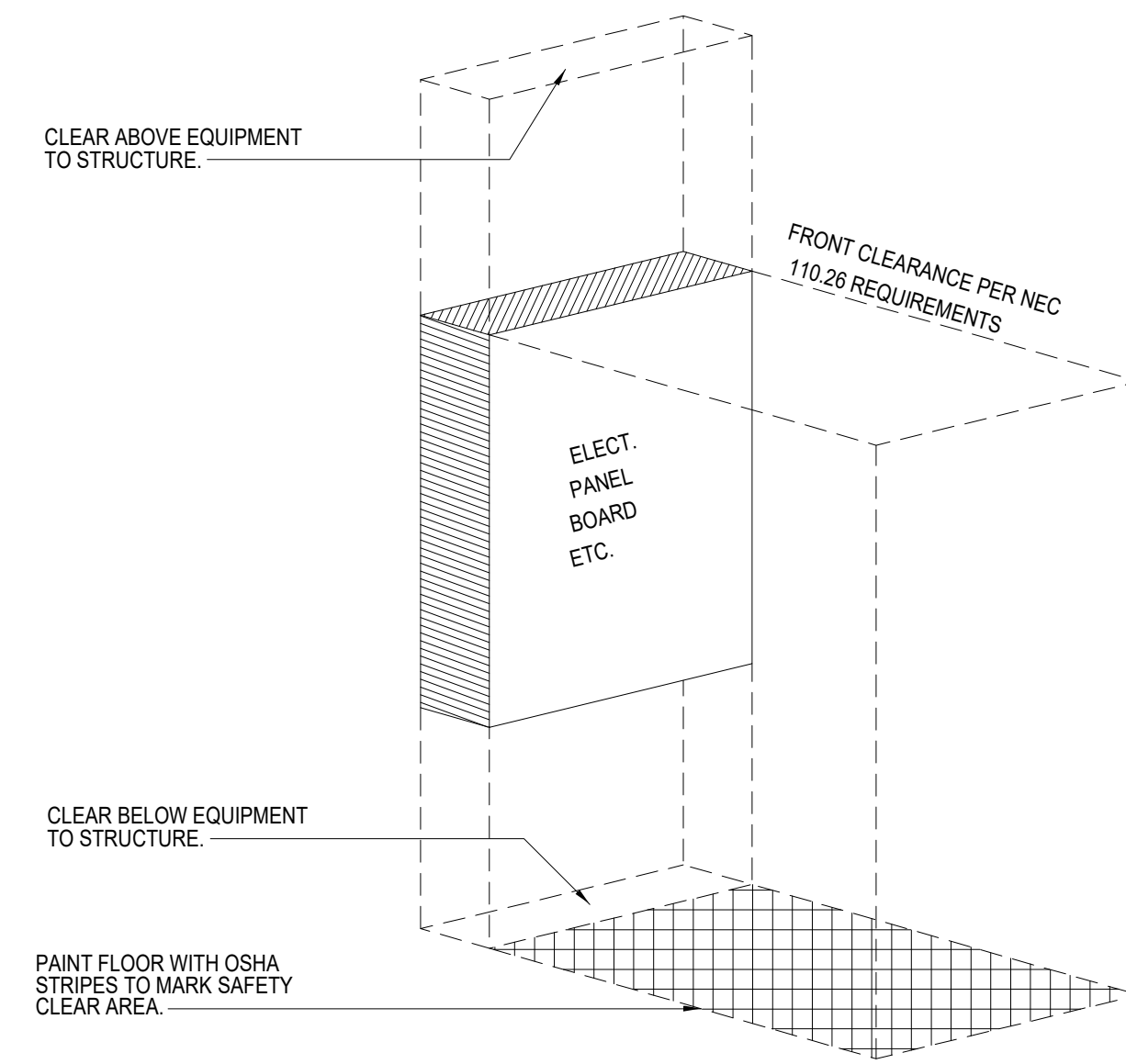
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ELECTRICAL SCHEDULES

SHEET NO. PROJ. NO. 023432

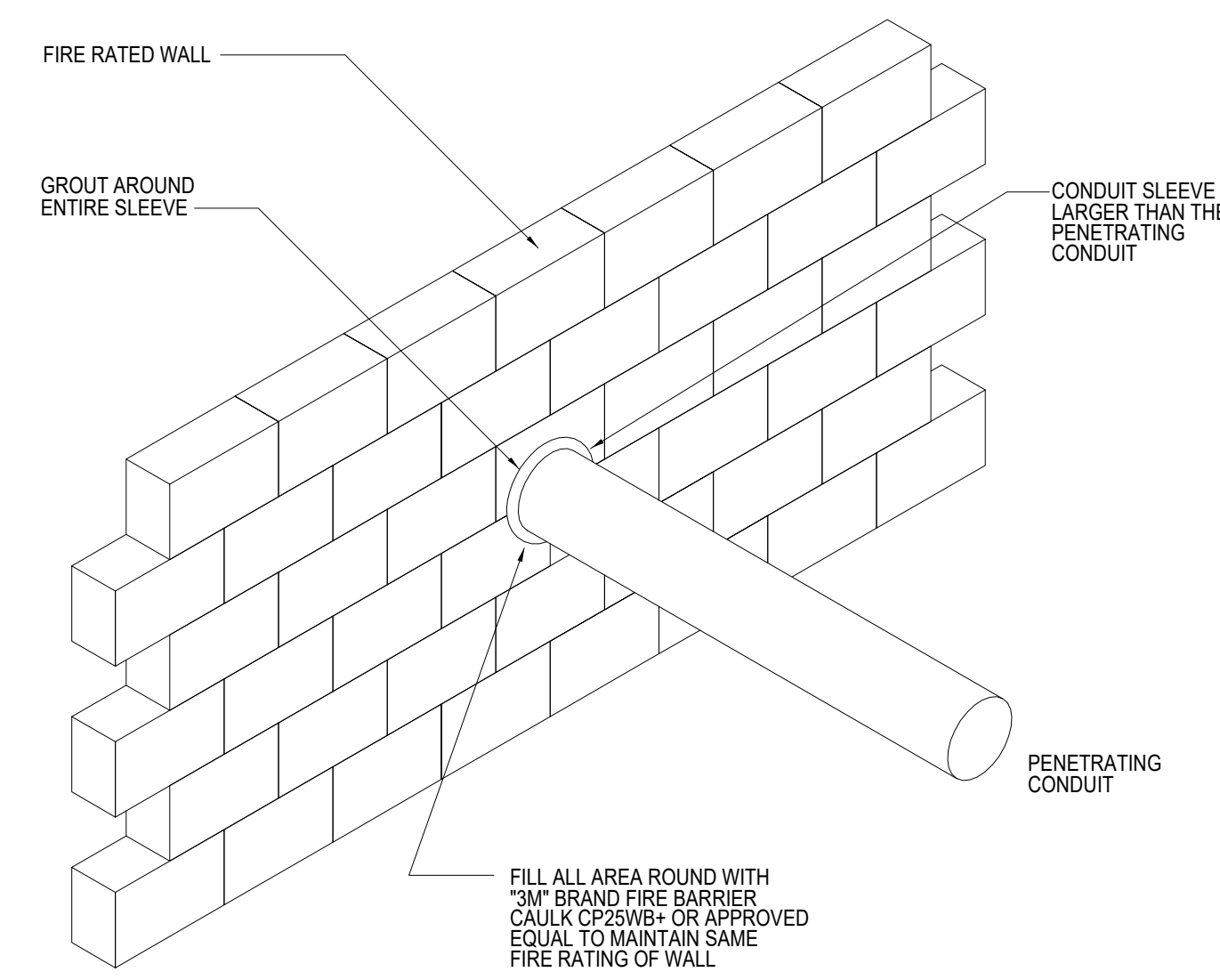
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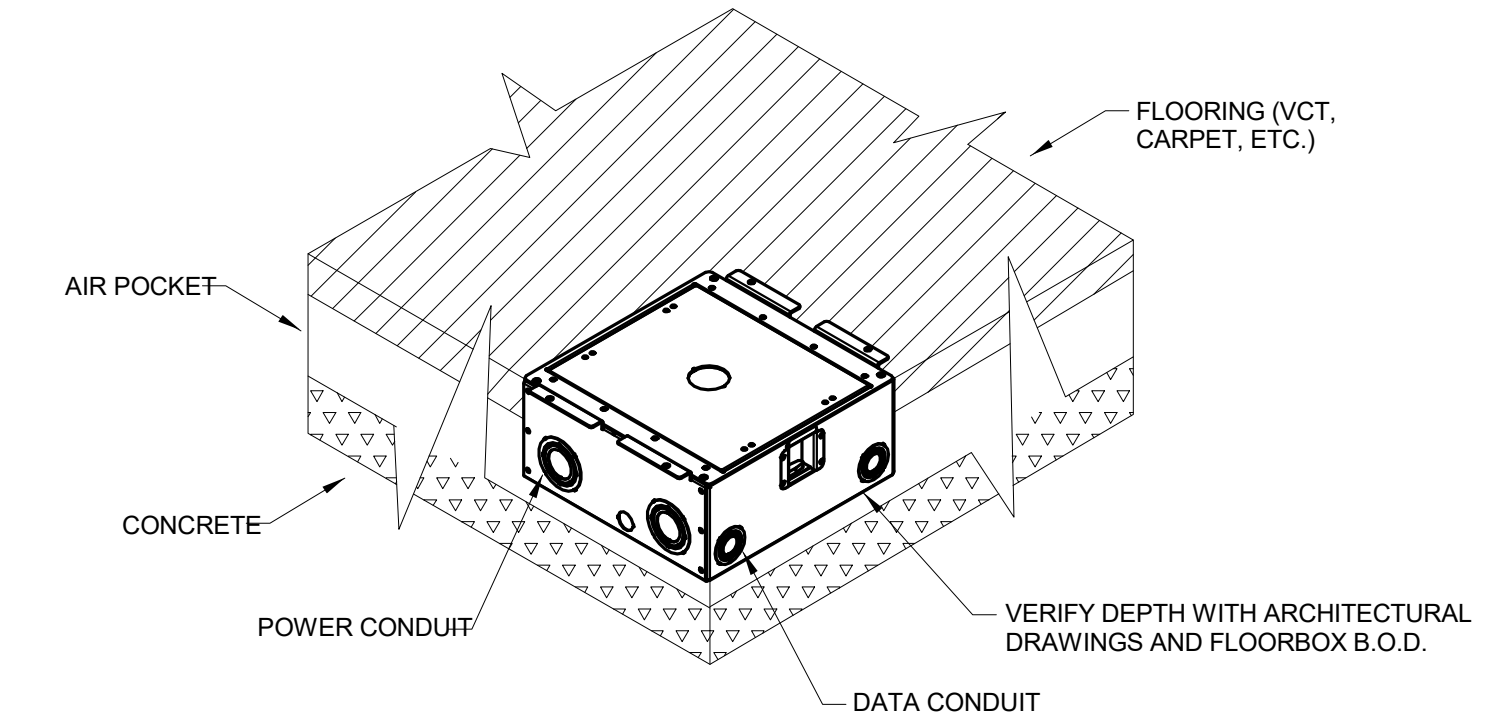
1 JUNCTION BOX COVER PLATE DETAIL
SCALE: NONE



2 ELECTRICAL EQUIPMENT CLEARANCE DETAIL
SCALE: NONE



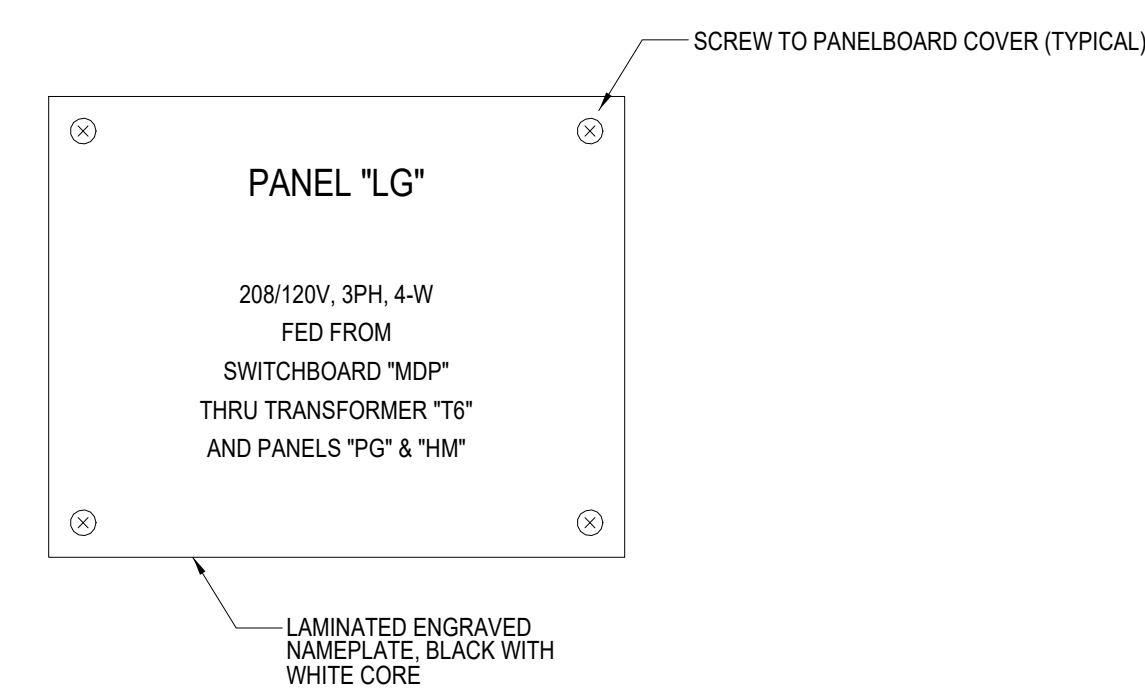
3 TYPICAL CONDUIT PENETRATION THROUGH FIRE RATED WALL DETAIL
SCALE: NONE



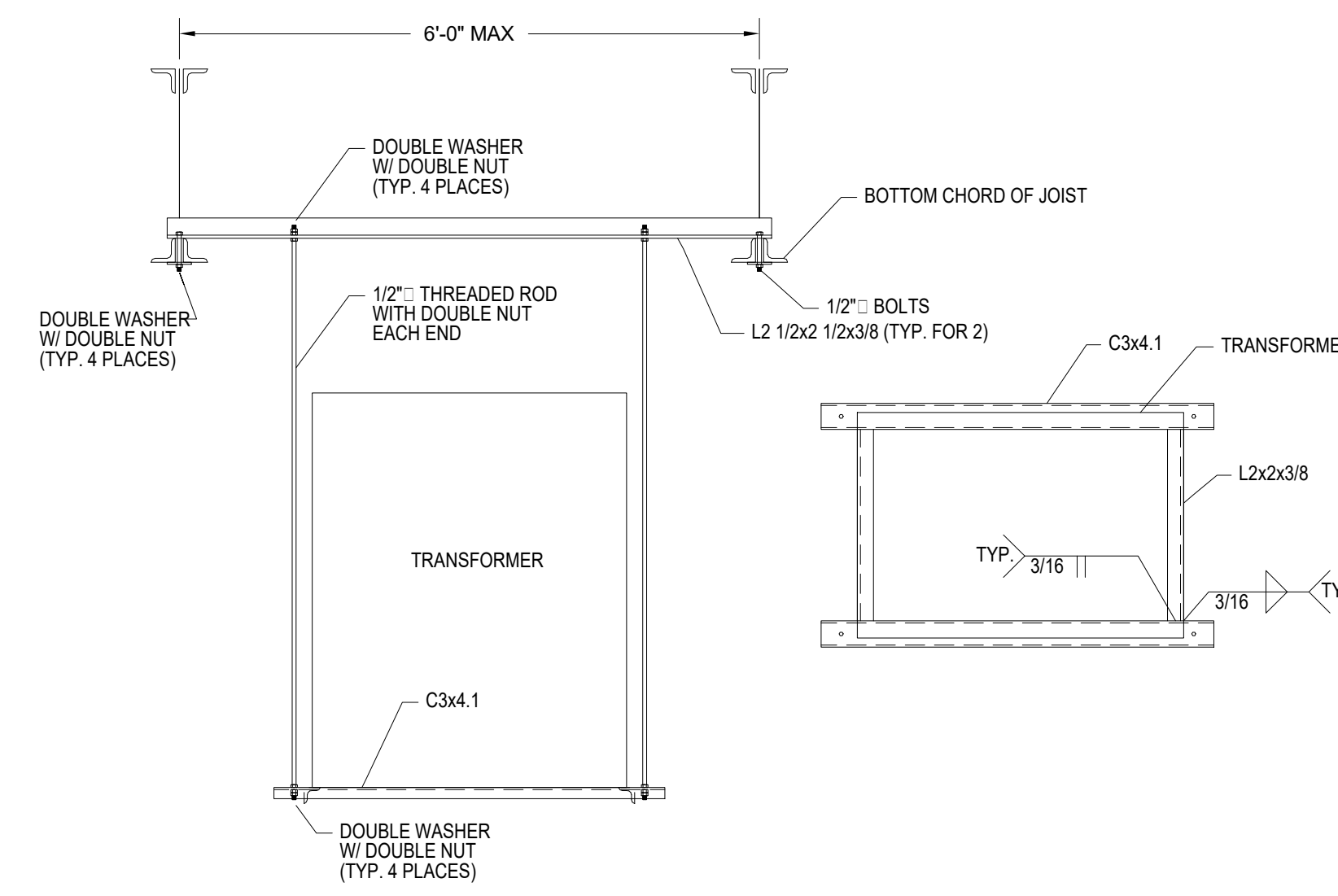
4 TYPICAL RAISED FLOOR FLOOR-BOX INSTALLATION DETAIL
SCALE: NONE

NOTES:

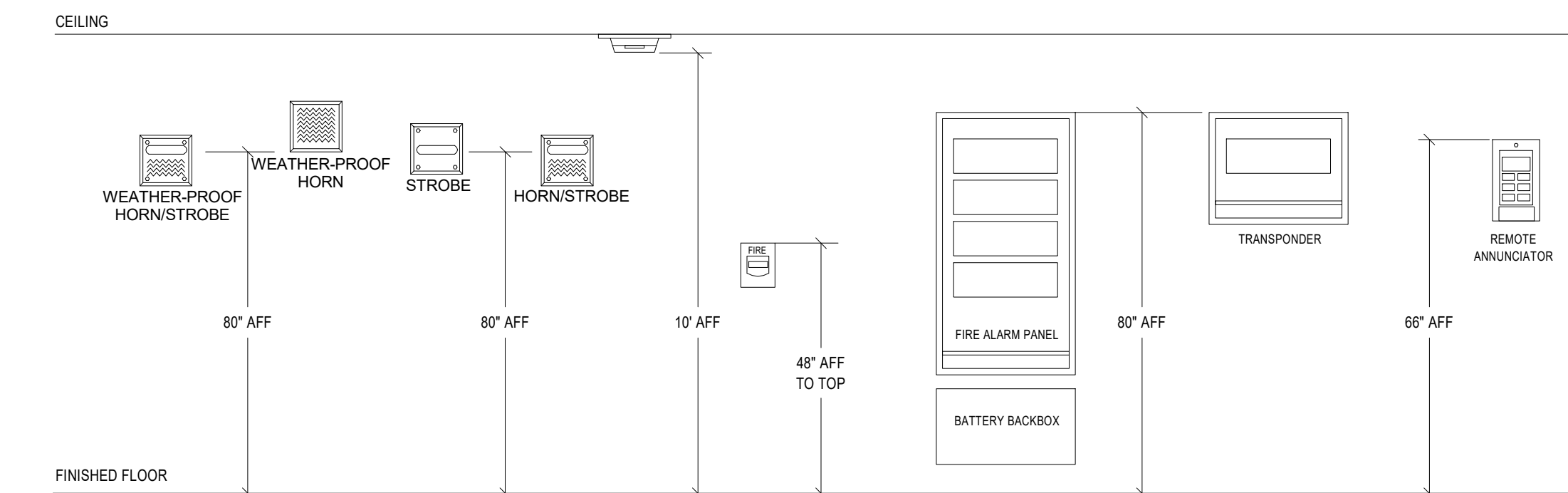
- REFER TO POWER RISER DIAGRAM FOR PROPER LABELING OF PANEL SWITCHBOARD AND TRANSFORMER.
- FOR 208/120V PANELS, PROVIDE BLACK LABELS WITH WHITE CORE.
- FOR 480/277V PANELS, PROVIDE GREEN LABELS WITH WHITE CORE.
- SUBMIT CUT SHEETS OF LABELS TO ELECTRICAL ENGINEER FOR APPROVAL.
- LETTERS SHALL BE A MINIMUM OF 3/8" HIGH.
- FOR PANELBOARDS SERVED FROM THE GENERATOR, PROVIDE RED LABELS WITH WHITE CORE.



5 SAMPLE PANELBOARD LABEL DETAIL
SCALE: NONE

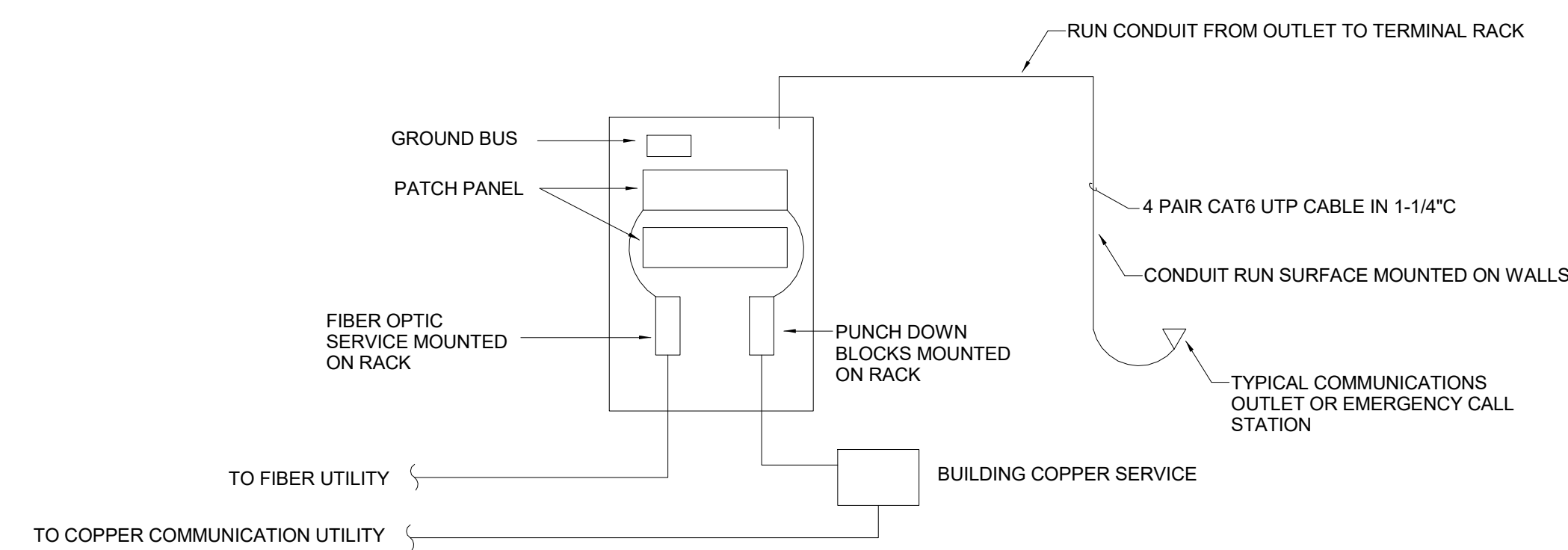


6 SUSPENDED TRANSFORMER DETAIL
SCALE: NONE

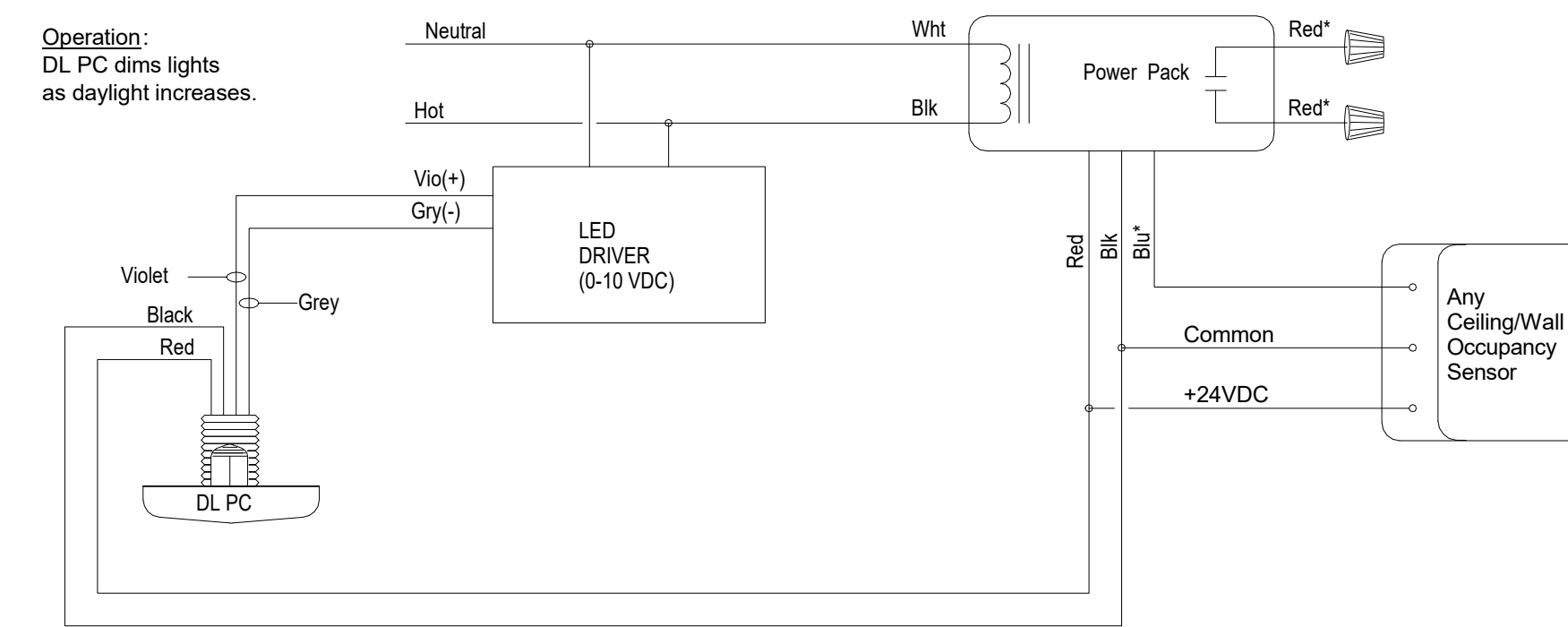


- NOTES:
- STROBES AND HORN/STROBES SHALL BE WALL MOUNTED A MAXIMUM OF 80" ABOVE THE FLOOR TO THE BOTTOM OF THE STROBE OR 6" MINIMUM BELOW THE CEILING, WHICHEVER IS LOWER. MEASUREMENTS ARE TO BE TAKEN FROM THE BOTTOM OF THE STROBE LENS.
 - MANUAL STATION SHALL BE INSTALLED AT 48" TO TOP OF DEVICE ABOVE FINISHED FLOOR.
 - WEATHER-PROOF HORN/STROBE SHALL BE WALL MOUNTED A MINIMUM OF 80" ABOVE FLOOR OR 6" MINIMUM BELOW THE CEILING, WHICHEVER IS LOWER. MEASUREMENTS ARE TO BE TAKEN FROM THE BOTTOM OF THE STROBE LENS.
 - MEASUREMENT TOLERANCES ARE ± 1/2" UND.

7 FIRE ALARM DEVICE MOUNTING HEIGHTS DETAIL
SCALE: NONE

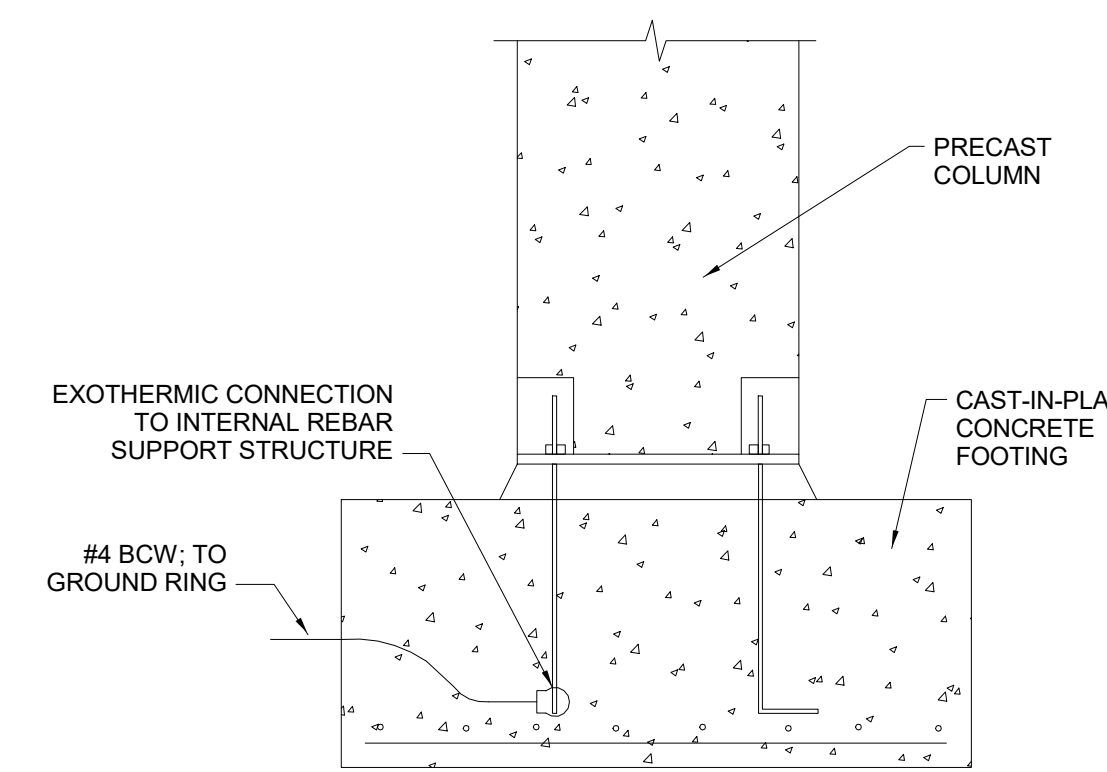


8 TEL/DATA RISER DETAIL
SCALE: NONE

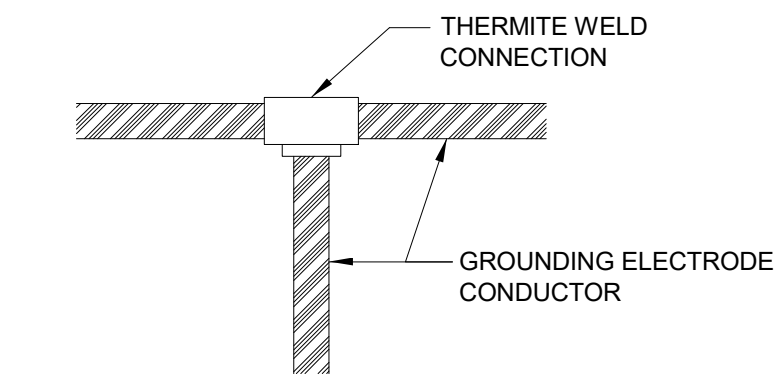


ALL FUNCTIONING, TESTING AND COMMISSIONING PER ENERGY CODE ADOPTED BY AHI.

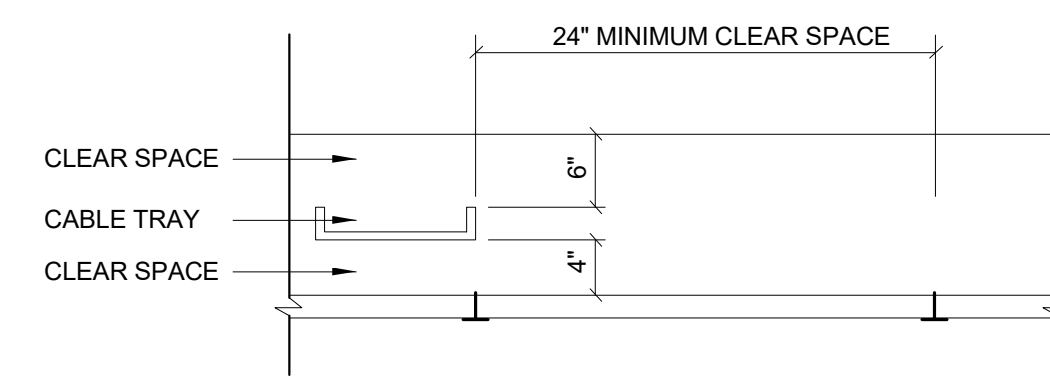
9 DAYLIGHT SENSOR DIAGRAM DETAIL
SCALE: NONE



10 TYPICAL COLUMN GROUND DETAIL
SCALE: NONE



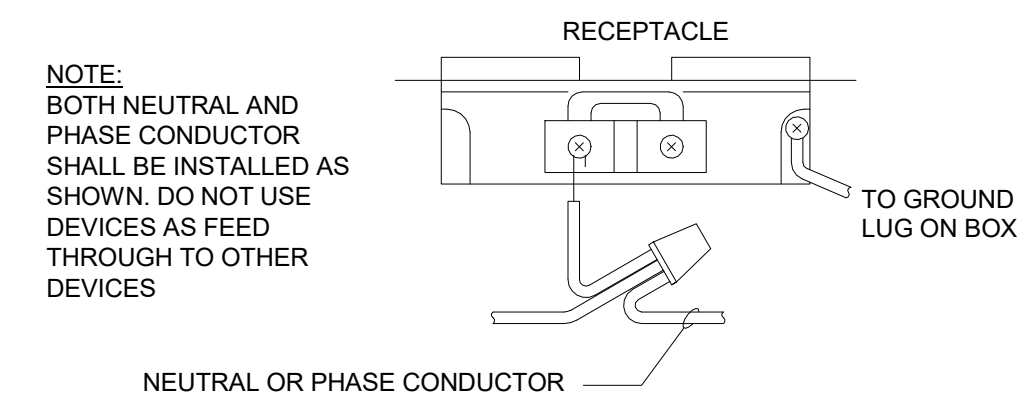
11 TYPICAL EXOTHERMIC WELD DETAIL
SCALE: NONE



- NOTES:
- CABLE TRAY SYSTEM SHALL BE INSTALLED SO THAT THERE IS AT LEAST 8 INCHES CLEAR SPACE ABOVE THE CABLE TRAY AND 4 INCHES CLEAR SPACE BELOW THE CABLE TRAY TO THE NEAREST CEILING ELEMENT (STRUCTURE, DUCTWORK, VAV BOX, LIGHTING, SPRINKLER, ETC.).
 - WHERE POSSIBLE, ALIGN EDGE OF CEILING TILE WITH EDGE OF CABLE TRAY TO ALLOW FOR EASY ACCESS.
 - HORIZONTAL PLACEMENT OF THE CABLE TRAY SHALL MAXIMIZE ACCESS TO IT, WHERE POSSIBLE, MAINTAIN A 24" HORIZONTAL CLEARANCE ON ONE SIDE OF THE TRAY TO ALLOW FOR CABLE INSTALLATION AND ACCESS. PROVIDE REMOVABLE CEILING PANELS FULL WIDTH AND CONTINUOUS LENGTH OF THIS CLEAR SPACE TO PROVIDE ACCESS FROM SPACE BELOW.

FINAL REQUIREMENTS AND LAYOUT PER OWNER DIVISION 27 CONTRACTOR VENDOR

12 TYPICAL CABLE TRAY DETAIL
SCALE: NONE



PROVIDE IDENTIFICATION AND BREAKER PROVISIONS PER NEC-210.4

13 TYPICAL MULTI-WIRE BRANCH CIRCUIT RECEPTACLE DETAIL
SCALE: NONE

D

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C

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B

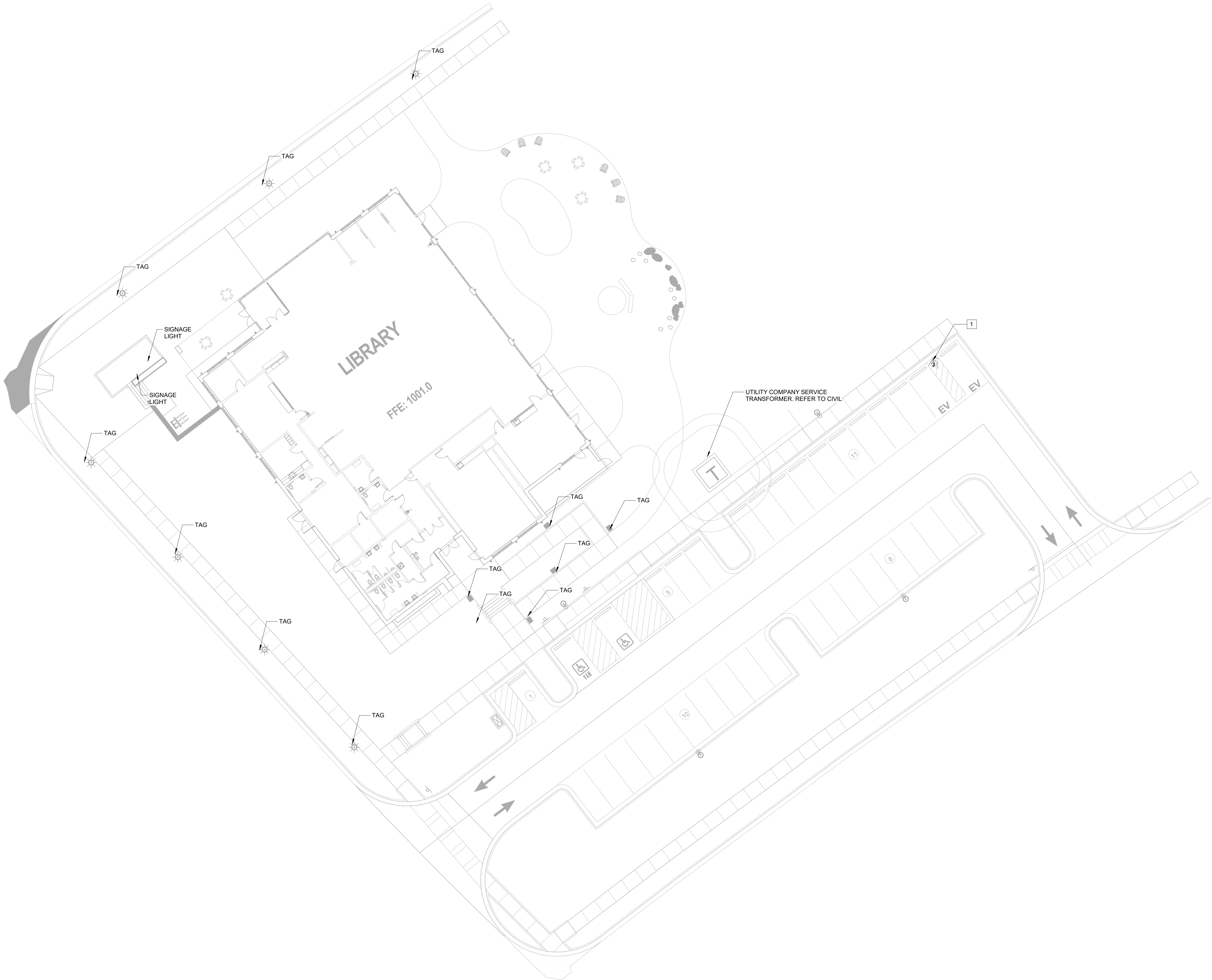
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- SITE LIGHTING AND SIGNAGE NOTES:**
1. NOT ALL SCOPE OF WORK UNDER OTHER CONSULTANTS ARE SHOWN ON THESE PLANS. CONTRACTOR IS RESPONSIBLE TO REVIEW AND COORDINATE WITH OWNER PM.
 2. COORDINATE SITE LIGHTING ELECTRICAL REQUIREMENTS AND ASSOCIATED PROVISIONS WITH UTILITY COMPANY AND OWNER PM, AND PROVIDE ACCORDINGLY.
 3. ALL UNDER GROUND/SLAB CONDUIT ROUTINGS AND STUB-UP LOCATIONS SHALL BE COORDINATED WITH CIVIL, ARCHITECTURAL, AND STRUCTURAL.
 4. REFER TO LANDSCAPE AND CIVIL DRAWINGS FOR EXACT LOCATION AND REQUIREMENTS OF FIXTURES AND DEVICES WITH ELECTRICAL BRANCH CIRCUITRY AND ASSOCIATED PROVISIONS.
 5. PRIOR TO START OF WORK, CONFIRM ALL SIGNAGE INCLUDING EXTERIOR WALL MOUNTED, MONUMENT AND PYLON SIGNS' ELECTRICAL ROUGH-INS AND BRANCH CIRCUITRIES WITH SIGNAGE VENDOR AND ARCHITECTURAL DRAWINGS.
 6. ALL SITE LIGHTING AND SIGNAGE SERVED VIA BUILDING ELECTRICAL PANELBOARD SHALL BE PROVIDED WITH MINIMUM 1" CONDUIT WITH #10 AWG.

- GENERAL NOTES**
1. CONTRACTOR TO READ THIS PLAN IN CONJUNCTION WITH CIVIL, LANDSCAPE, AND ARCHITECTURAL PLANS.
 2. REFER TO CIVIL AND ARCHITECTURAL DRAWINGS FOR ALL SITE INFRASTRUCTURE AND ALL UTILITY SERVICE LINES, INCLUDING WATER, STORM, AND SEWER, TO AVOID CONFLICTS AND MAINTAIN CLEARANCES. PROVIDE IN ACCORDANCE WITH UTILITY SERVICE PROVIDERS' REQUIREMENTS.
 3. ALL CONDUIT PATHWAYS AND LOCATIONS SHOWN ON THIS PLAN ARE DIAGRAMMATIC. PRIOR TO START OF WORK, FIELD COORDINATE ALL CONDUIT PATHWAYS AND STUB-UP/HEAD-END LOCATIONS WITH ITS RESPECTIVE SUPPLIER/VENDOR AND APPROVED ROOM LAYOUT(S), AND PROVIDE ACCORDINGLY.
 4. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING BUILDING(S) AND SITE UTILITIES BETWEEN CIVIL, LANDSCAPE, AND MEP DRAWINGS. CONTRACTOR SHALL CONTACT AND PERFORM ON-SITE SERVICE COORDINATION WITH ALL APPLICABLE SERVICE PROVIDERS INCLUDING POWER AND LOW VOLTAGE UTILITY COMPANIES AND PROVIDE CONDUIT(S) AND OTHER FACILITIES AS REQUIRED TO ACCOMMODATE COMPLETE INSTALLATION IN ACCORDANCE WITH SERVICE PROVIDER STANDARDS AND AHJ.
 5. COORDINATE ALL UNDER-GROUND SERVICE LATERALS AND ROUGH-INS WITH CIVIL, LANDSCAPE, AND ITS RESPECTIVE UTILITY PROVIDER.
 6. COORDINATE ALL SITE AND ROADWAY LIGHTING LOCATIONS AND ROUGH-IN REQUIREMENTS WITH ARCHITECT, OWNER PM AND CIVIL, AND PROVIDE ACCORDINGLY.
 7. REFER TO ELECTRICAL RISER DIAGRAM SHEETS FOR ADDITIONAL INFORMATION.
 8. CONTRACTOR SHALL PROVIDE UNDER GROUND/SLAB SERVICE AND BRANCH FEEDERS TO EACH SERVICE MAIN ENTRANCE OR HEAD-END LOCATIONS, OVERHEAD AND THROUGH BUILDING FIRE RATED/RESISTIVE CABLES/CONDUCTORS ARE ACCEPTABLE WHERE ALLOWED BY AHJ VIA WRITTEN APPROVAL LETTER.
 9. CONTRACTOR SHALL SUBMIT PROPOSED ELECTRICAL EQUIPMENT SHOP DRAWINGS, AND INCLUDE DIMENSIONED LAYOUT PLAN OF PROPOSED ELECTRICAL EQUIPMENT SERVICE AND METERING EQUIPMENT PER MANUFACTURER PRODUCT DATA SHEETS SHOWING ACTUAL PHYSICAL SIZES AND CODE REQUIRED CLEARANCES AT EACH SERVICE LOCATION. REPORT BACK EOR WITH ANY CONFLICTS.

- KEYNOTES**
1. DUAL-PORT VEHICLE CHARGER STATION. PROVIDE IN-GRADE WEATHER-PROOF JUNCTION BOX AND HOMERUN WITH #8-2#10G, IN 1.25' UNDER GROUND/SLAB CONDUIT TO PANEL 'L1'. PROVIDE (2)60A BREAKERS WITH GFCI IN PANEL 'L1'. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION.



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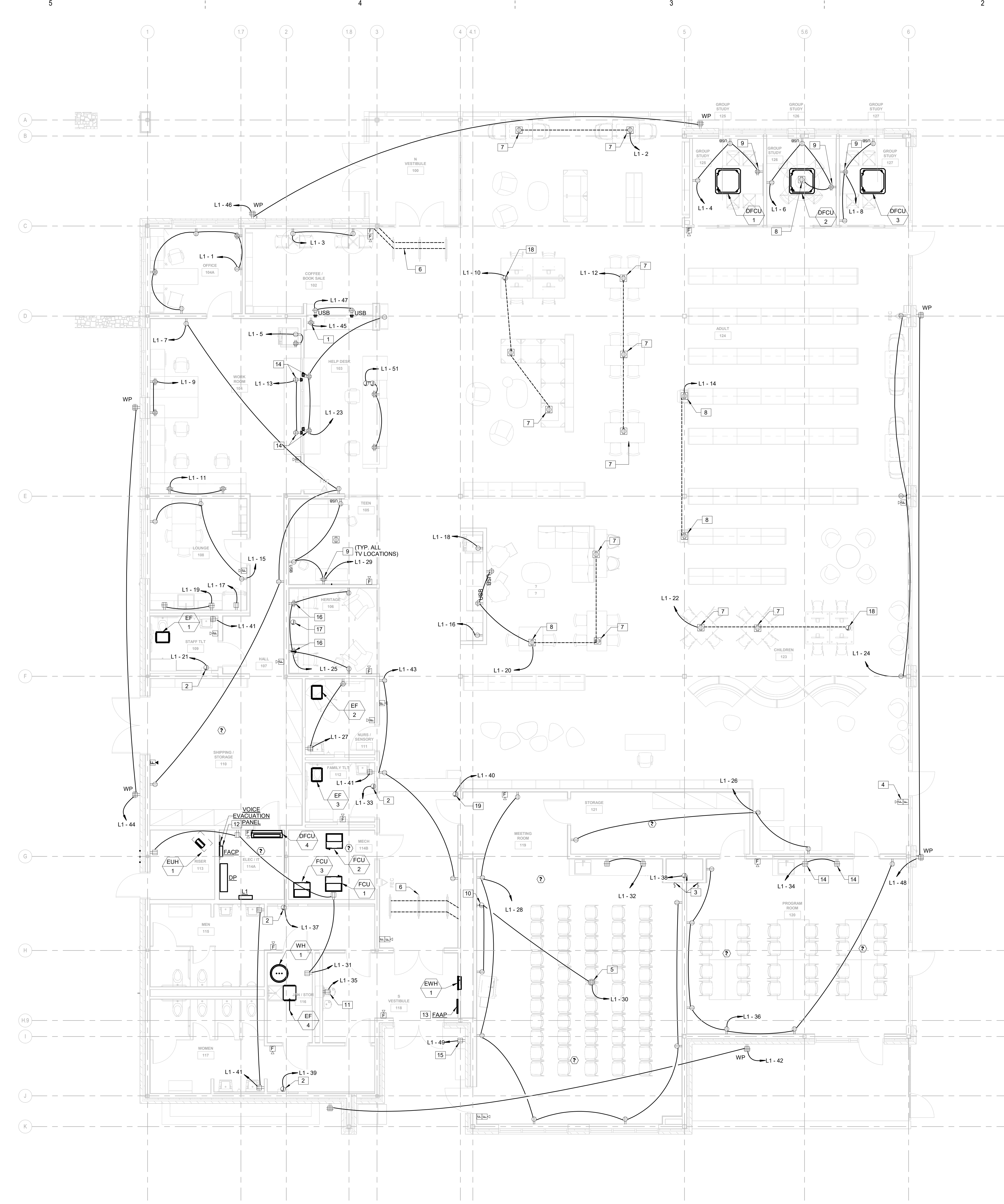
PRINCIPAL IN CHARGE:
 PROJECT ARCHITECT:
 DRAWN BY: EM

SHEET TITLE:
SITE PLAN - ELECTRICAL

SHEET NO. PROJ. NO. 023432

ESP-01

1 SITE PLAN - ELECTRICAL
 1/16" = 1'-0"



GENERAL NOTES

- REFER TO OTHER DISCIPLINES' DRAWINGS AND SCHEDULES FOR EXACT LOCATION OF EQUIPMENT AND ADDITIONAL ROUGH-IN REQUIREMENTS INCLUDING FSD AND MOD DEVICES.
- PRIOR TO ROUGH-IN, COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF ALL OUTLETS, DEVICES AND FIXTURES WITH ARCHITECT.
- PRIOR TO ROUGH-IN, CONFIRM ALL FLOOR OUTLET AND STUB-UP LOCATIONS WITH ARCHITECTURAL AND FURNITURE DIMENSIONED DRAWINGS.
- COORDINATE ALL COMMUNICATION REQUIREMENTS WITH LOW VOLTAGE CONSULTANT AND DIVISIONS 27 & 28 CONTRACTORS. CONFIRM EXACT LOCATION AND TYPE OF BOXES, OUTLETS, AND EQUIPMENT PRIOR TO ROUGH-IN.
- COORDINATE ALL LOW VOLTAGE INCLUDING COMMUNICATION, PHONE, SECURITY AND FIRE ALARM WITH DIVISION 27 AND DIVISION 28 CONTRACTORS, AND PROVIDE ALL ROUGH-INS AND ASSOCIATED PROVISIONS ACCORDINGLY.
- COORDINATE ELECTRICAL WORK WITH EXISTING CONDITIONS AND THAT OF OTHER TRADES. REFER TO MECHANICAL, PLUMBING, ARCHITECTURAL, AND STRUCTURAL DRAWINGS AND SPECIFICATIONS. COORDINATION SHALL OCCUR PRIOR TO FABRICATION, PURCHASE, AND INSTALLATION OF WORK.
- PRIOR TO ROUGH-IN, COORDINATE ALL EQUIPMENT AND DEVICE REQUIREMENTS WITH OWNER'S SUPPLIER(S) AND PROVIDE ACCORDINGLY.
- CONFIRM ALL OUTLET/DEVICE AND PLATE COLOR/FINISH WITH ARCHITECT. COLOR AND FINISH SHALL MATCH SURROUNDING FINISHES, UNLESS APPROVED BY ARCHITECT AND OWNER PM.
- TECHNICAL RECEPTACLES NOT ASSOCIATED WITH MODULAR FURNITURE SHALL BE DARK GRAY. PRIOR TO PURCHASE, CONTRACTOR SHALL SUBMIT ALL OUTLETS, DEVICES, AND COVER-PLATES COLOR/FINISH WITH ARCHITECT AND OWNER PM, AND PROVIDE ACCORDINGLY.
- THE LOW VOLTAGE CABLING SUPPORT SYSTEM PATHWAY IS TO BE ADJUSTED TO AVOID CONFLICTS WITH OTHER TRADES. PRIOR TO INSTALLATION, FULLY COORDINATE WITH OTHER TRADES SUCH AS MECHANICAL TO AVOID CONFLICTS WITH DUCTWORK AND PIPING AS THOSE SYSTEMS TAKE PRECEDENT. ALSO COORDINATE WITH THE LIGHTING SYSTEM AS THAT SYSTEM TAKES PRECEDENT. INDEPENDENTLY SUPPORT THIS PATHWAY SYSTEM FROM STRUCTURE ABOVE NOT SIDE WALLS OR FRAMING, AND NOT OTHERS SYSTEMS SUCH AS DUCTWORK OR PIPING.
- COORDINATE SECURITY DEVICES AND ASSOCIATED POWER SUPPLIES/COMPONENTS WITH OWNER'S SECURITY CONSULTANT AND VENDOR/CONSULTANT.
- PROVIDE ALL NECESSARY ROUGH-INS AND ASSOCIATED PROVISIONS TO ACCOMMODATE ALL LOW VOLTAGE DEVICE. IN ADDITION, COORDINATE WITH OWNER'S SECURITY CONSULTANT FOR EXACT LOCATION, HEIGHT, MOUNTING TYPE, AND ALL REQUIREMENTS, PRIOR TO ROUGH-IN.
- REFER TO HVAC/PLUMBING SHEETS FOR FINAL LOCATIONS OF EQUIPMENT/DEVICES AND QUANTITIES OF THERMOSTATS AND SENSORS, AND PROVIDE ACCORDINGLY. COORDINATE WITH HVAC/PLUMBING CONTRACTORS FOR EXACT REQUIREMENTS AND PROVIDE ACCORDINGLY.
- PRIOR TO ROUGH-IN, COORDINATE MOUNTING HEIGHT/LOCATION OF ALL RECEPTACLES AND LOW VOLTAGE OUTLET/DEVICES IN ALL AREAS INCLUDING OFFICES AND MULTI-PURPOSE ROOMS WITH OWNER'S PROJECT MANAGER.
- ALL LOW VOLTAGE AND SECURITY ROOMS INCLUDING DATA CENTER AND IT ROOMS ARE TO BE APPROVED BY OWNER LOW VOLTAGE CONTRACTOR AND IN ACCORDANCE WITH OWNER STANDARDS, DESIGN GUIDES AND REQUIREMENTS. PRIOR TO START OF WORK, CONTRACTOR SHALL PERFORM ON SITE MEETING WITH OWNER LOW VOLTAGE CONTRACTOR AND REVIEW ALL ELECTRICAL AND LOW VOLTAGE ROUGH-INS AND REQUIREMENTS, AND PROVIDE ACCORDINGLY. EQUIPMENT, DEVICES AND FIXTURES SHOWN ON THESE PLANS ARE SYMBOLIC. ACTUAL ROOM LAYOUT AND ELECTRICAL REQUIREMENTS MAY VARY.
- CONFIRM ALL FLOOR OUTLET AND POKE THRU DEVICE LOCATIONS WITH DIMENSIONED ARCHITECTURAL AND FURNITURE DRAWINGS. LOCATIONS SHOWN ON THESE PLANS ARE DIAGRAMMATIC.

ELECTRICAL KEYNOTES

NO.	NOTE
1	PROVIDE RECEPTACLE WITH SHALLOW BACKBOX INSIDE CABINET/CASEWORK. PRIOR TO ROUGH-IN, CONFIRM EXACT LOCATION AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND CASEWORK VENDOR, AND PROVIDE ACCORDINGLY.
2	HAND DRYER. PRIOR TO ROUGH-IN, COORDINATE EXACT LOCATION AND ROUGH-IN REQUIREMENTS INCLUDING MOUNTING HEIGHT WITH ARCHITECTURAL, AND PROVIDE ACCORDINGLY.
3	BID ALTERNATE-1. OPERABLE PARTITION. INCLUDE IN BID ALL COST FOR ELECTRICAL AND CONTROL CONSOLE ROUGH-INS, BRANCH CIRCUITRY, CABLING AND ASSOCIATED PROVISIONS TO ACCOMMODATE COMPLETE AND FULLY FUNCTIONAL SYSTEM. PRIOR TO BID, CONFIRM EXACT LOCATIONS AND REQUIREMENTS WITH ARCHITECT AND OPERABLE PARTITION VENDOR.
4	DEVICE/OUTLET MOUNTED ON GLASS. PROVIDE ROUGH-IN AND CABLING PRIOR TO ROUGH-IN. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH ARCHITECTURAL AND RESPECTIVE DIVISION CONTRACTOR, AND PROVIDE ACCORDINGLY.
5	CEILING MOUNTED PROJECTOR. PROVIDE CEILING MOUNTED DUPLEX RECEPTACLE AND LOW VOLTAGE OUTLET. PRIOR TO ROUGH-IN, CONFIRM EXACT LOCATION WITH ARCHITECT AND OWNER PM.
6	RFID GATE. PROVIDE FLUSH FLOOR BOX AND CONDUIT TO HEAD-END CONTROL BOX. PRIOR TO START OF WORK, COORDINATE EXACT REQUIREMENTS AND STUB-UP LOCATIONS WITH ARCHITECT AND OWNER SECURITY VENDOR, AND PROVIDE ACCORDINGLY.
7	PROVIDE FLUSH FLOOR-BOX WITH (2) DUPLEX RECEPTACLES. PROVIDE (1)3/4" UNDER SLAB CONDUIT TO NEAREST WALL/COLUMN, IN THE DIRECTION OF ELECTRICAL PANELBOARD. PRIOR TO START OF WORK, CONFIRM EXACT STUB-UP LOCATION, CORE SIZE/SHAPE, MATERIAL (DEVICE AND FLOOR SYSTEM) AND COLOR/FINISH WITH ARCHITECT AND INTERIOR DESIGNER, AND PROVIDE ACCORDINGLY. MODULAR FURNITURE WITH PRE-WIRED OUTLETS, LOCATE FLOOR BOX AT LEG/BASE.
8	PROVIDE FLUSH 2-COMPARTMENT FLOOR-BOX WITH (1) DUPLEX RECEPTACLE AND (2) LOW VOLTAGE OUTLETS WITH (4) PORTS. PROVIDE (1)3/4" CONDUIT FOR POWER AND (2) CONDUIT FOR LOW VOLTAGE UNDER SLAB TO NEAREST WALL/COLUMN, IN THE DIRECTION OF ELECTRICAL PANELBOARD FOR POWER AND MDF/IDF ROOM FOR LOW VOLTAGE. STUB-UP LOW VOLTAGE CONDUIT TO 6" ABOVE FINISHED CEILING. PRIOR TO START OF WORK, CONFIRM EXACT STUB-UP LOCATION, CORE SIZE/SHAPE, MATERIAL (DEVICE AND FLOOR SYSTEM) AND COLOR/FINISH WITH ARCHITECT AND INTERIOR DESIGNER, AND PROVIDE ACCORDINGLY. MODULAR FURNITURE WITH PRE-WIRED OUTLETS, LOCATE FLOOR BOX AT LEG/BASE.
9	TV/MONITOR DISPLAY. PRIOR TO ROUGH-IN, CONFIRM EXACT LOCATION, MOUNTING HEIGHT, AND ROUGH-IN REQUIREMENTS WITH ARCHITECT AND LOW VOLTAGE, AND PROVIDE ACCORDINGLY.
10	PROVIDE 3-BUTTON SWITCH CONTROLLING MOTORIZED PROJECTOR SCREEN. PRIOR TO ROUGH-IN, CONFIRM EXACT LOCATION AND WIRING REQUIREMENTS WITH ARCHITECT AND OWNER PM.
11	WATER FOUNTAIN. PRIOR TO ROUGH-IN, COORDINATE LOCATION WITH PLUMBING CONTRACTOR, AND PROVIDE ACCORDINGLY.
12	LOCATION OF FIRE ALARM AND PA SYSTEM CONTROL PANEL. PRIOR TO ROUGH-IN, CONFIRM EXACT LOCATION AND REQUIREMENTS WITH OWNER PM, FIRE ALARM ENGINEER, AND LOW VOLTAGE CONTRACTOR, AND PROVIDE ACCORDINGLY.
13	FIRE ALARM PANEL. LOCATION ON THIS PLAN IS SYMBOLIC. CONFIRM EXACT LOCATION AND REQUIREMENTS WITH ARCHITECT AND FIRE ALARM ENGINEER, AND PROVIDE ACCORDINGLY.
14	MOUNT RECEPTACLE HORIZONTALLY ABOVE COUNTER-TOP. PRIOR TO ROUGH-IN, CONFIRM EXACT LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL.
15	PRIOR TO ROUGH-IN, CONFIRM EXACT LOCATION & REQUIREMENTS WITH LOCKER VENDOR.
16	PRIOR TO ROUGH-IN, CONFIRM EXACT LOCATION, MOUNTING HEIGHT & REQUIREMENTS WITH ARCHITECTURAL & FURNITURE VENDOR TO PROVIDE ACCORDINGLY.
17	PROVIDE CONNECTION TO BACKLIT LIGHTING. PRIOR TO ROUGH-IN, CONFIRM EXACT LOCATION & REQUIREMENT WITH CIVIL PLANS. CONFIRM SWITCHING WITH SUPPLIER. PROVIDE CONTROL SWITCH AS NEEDED.
18	PROVIDE FLUSH 2-COMPARTMENT FLOOR-BOX WITH (2) DUPLEX RECEPTACLE AND (2) LOW VOLTAGE OUTLETS WITH (4) PORTS. PROVIDE (1)3/4" CONDUIT FOR POWER AND (1)2" CONDUIT FOR LOW VOLTAGE UNDER SLAB TO NEAREST WALL/COLUMN, IN THE DIRECTION OF ELECTRICAL PANELBOARD FOR POWER AND MDF/IDF ROOM FOR LOW VOLTAGE. STUB-UP LOW VOLTAGE CONDUIT TO 6" ABOVE FINISHED CEILING. PRIOR TO START OF WORK, CONFIRM EXACT STUB-UP LOCATION, CORE SIZE/SHAPE, MATERIAL (DEVICE AND FLOOR SYSTEM) AND COLOR/FINISH WITH ARCHITECT AND INTERIOR DESIGNER, AND PROVIDE ACCORDINGLY. MODULAR FURNITURE WITH PRE-WIRED OUTLETS, LOCATE FLOOR BOX AT LEG/BASE.
19	PROVIDE JUNCTION BOX TO POWER MOTORIZED SECURITY GRILLE. COORDINATE EXACT REQUIREMENTS AND LOCATION WITH MOTORIZED SECURITY GRILLE PROVIDER PRIOR TO ROUGH-IN.

1 LEVEL 1 PLAN - ELECTRICAL
3/16" = 1'-0"

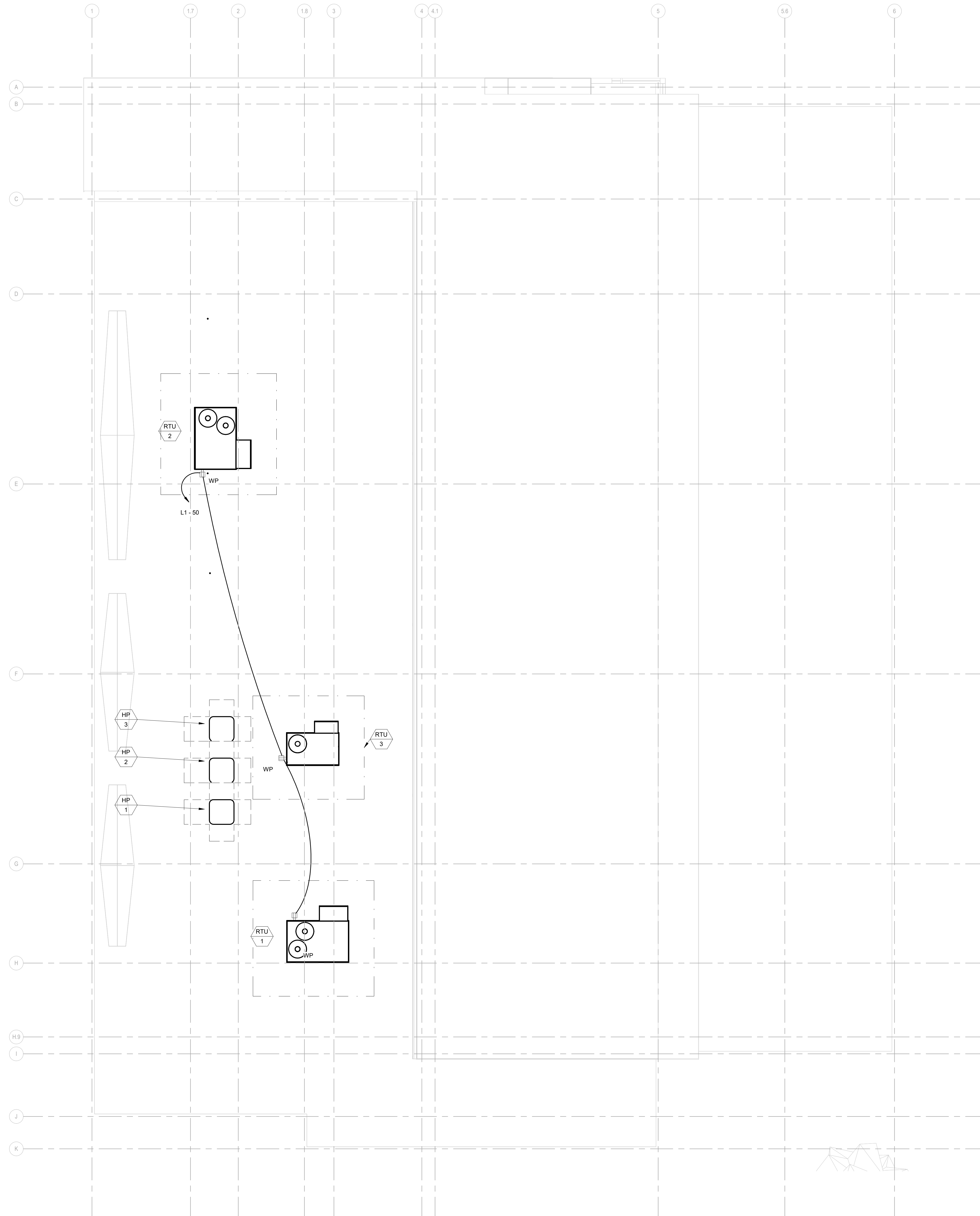


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PRINCIPAL IN CHARGE: PROJECT ARCHITECT:
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 SHEET TITLE:
OVERALL FLOOR PLAN - ELECTRICAL - POWER
 SHEET NO. PROJ. NO. 025432

E110



1 ROOF PLAN - ELECTRICAL
3/16" = 1'-0"

GENERAL NOTES

1. REFER TO OTHER DISCIPLINES' DRAWINGS AND SCHEDULES FOR EXACT LOCATION OF EQUIPMENT AND ADDITIONAL ROUGH-IN REQUIREMENTS INCLUDING FSD AND MOD DEVICES.
2. PRIOR TO ROUGH-IN, COORDINATE ALL DUCT AND SMOKE DETECTORS WITH MECHANICAL DRAWINGS AND DIVISION-28 CONTRACTOR. PROVIDE ALL ROUGH-INS AND ASSOCIATED PROVISIONS TO ACCOMMODATE COMPLETE AND CODE COMPLIANT INSTALLATION.
3. PRIOR TO ROUGH-IN, COORDINATE EXACT LOCATION OF ALL OUTLETS AND DISCONNECT SWITCHES WITH ARCHITECT AND ITS RESPECTIVE DISCIPLINE. CONTRACTOR SHALL PROVIDE ALL SUPPORTS AND ASSOCIATED PROVISIONS TO ACCOMMODATE COMPLETE AND CODE COMPLIANT INSTALLATION.
4. MAINTAIN CODE REQUIRED CLEARANCES AND WORKING SPACE TO ALL DISCONNECT SWITCHES AND ELECTRICAL COMPONENTS PER CODE.
5. ALL RECEPTACLES SHALL BE GFCI WITH IN-USE WEATHER-PROOF COVER.
6. ALL DISCONNECTS SHALL BE NEMA-3R LISTED.
7. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS OF ALL ELECTRICAL OUTLETS, DEVICES AND DISCONNECTS. REPLACE DAMAGED WITH NEW.
8. PROVIDE ADDITIONAL SERVICE RECEPTACLES AS NEEDED TO MEET NEC 210.63. PROVIDE ALL SUPPORTS AND ASSOCIATED PROVISIONS NECESSARY TO ACCOMMODATE CODE COMPLIANT INSTALLATION OF ALL RECEPTACLES ON ROOF.



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DRAWN BY: EM

SHEET TITLE:
ROOF PLAN - POWER & SYSTEMS

SHEET NO. PROJ. NO.
023432

E111



1 LEVEL 1 PLAN - LIGHTING
3/16" = 1'-0"

GENERAL NOTES

- REFER TO ARCHITECTURAL LIFE SAFETY PLANS FOR PATH OF EGRESS AND PROVIDE EMERGENCY LIGHTING BRANCH CIRCUIT ACCORDINGLY TO ACCOMMODATE CODE REQUIRED EMERGENCY ILLUMINATION.
- REFER TO LIGHTING DESIGNER DRAWINGS AND SCHEDULES FOR LOCATION AND REQUIREMENTS OF ALL LIGHTING CONTROLS, LIGHTING ZONES, CABLING, AND ASSOCIATED PROVISIONS, AND PROVIDE ACCORDINGLY.
- MINIMUM LIGHTING BRANCH CIRCUITS SHALL BE #10, 1410G-3/4" UNO. MAINTAIN 3% VOLTAGE DROP PER EACH LIGHTING BRANCH CIRCUIT. UPSIZE BRANCH CIRCUIT CONDUCTORS AND PROVIDE BREAKER WITH APPROPRIATE LUG-SIZE TO ACCOMMODATE UPSIZED BRANCH CIRCUITRY.
- PROVIDE HOMERUN FOR EACH LIGHTING BRANCH CIRCUIT NOTED ON THESE PLANS. COMBINE NO MORE THAN (3) BRANCH CIRCUITS IN SAME RACEWAY, UNLESS CONDUCTOR RATING ARE ADJUSTED IN ACCORDANCE WITH CODE.
- REFER TO ARCHITECTURAL CEILING REFLECTED DRAWINGS AND SCHEDULES FOR EXACT LOCATION OF LIGHT FIXTURES, MOUNTING REQUIREMENTS PER CEILING TYPE, AND PROVIDE ACCORDINGLY.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS AND SCHEDULES AND PROVIDE ALL PARTS/ACCESSORIES REQUIRED TO ACCOMMODATE COMPLETE FIXTURE INSTALLATION PER CEILING TYPE.
- REFER TO LIGHTING DESIGNER DRAWINGS, CONTROLS, AND SCHEDULES FOR EXACT LIGHTING REQUIREMENTS, AND PROVIDE ACCORDINGLY.
- PROVIDE DEDICATED PHASE CONDUCTOR FOR ALL EXIT SIGNS AND BATTERY BACK FIXTURES/COMPONENT OF EMERGENCY LIGHTING. CONNECT TO NEAREST LIGHTING BRANCH CIRCUIT IN SAME AREA/SPACE, AND CONNECT AHEAD OF LIGHTING CONTROLS.
- WIRE COUNTS FOR CIRCUIT CONDUCTORS ARE NOT SHOWN. PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUIT AND SWITCHING.
- NOT ALL ROOMS ARE SHOWN WITH INTERIOR SUCH AS SHELVING. CONTRACTOR SHALL ADJUST ALL LIGHTING MOTION SENSORS IN EACH AREA/SPACE IN A FASHION TO COVER ENTIRE AREA/SPACE.
- ALL LIGHTING MOTION SENSORS SHALL BE DUAL TECHNOLOGY.
- PROVIDE DUAL ZONE DAYLIGHT SENSORS. ALL LIGHT FIXTURES IN DAYLIGHT ZONES SHALL BE DIMMABLE AND IN ACCORDANCE WITH ENERGY CODE OR LEED CERTIFICATION, WHICHEVER IS MORE RESTRICTING.
- PROVIDE ALL TESTING, COMMISSIONING, AND CERTIFICATION OF LIGHTING CONTROLS IN ACCORDANCE WITH ENERGY CODE AND LEED CERTIFICATION.

REFER TO LIGHTING DESIGNER DRAWINGS FOR ALL LIGHTING ZONES, CONTROLS LOCATIONS AND WIRING INCLUDING DIMMING, DAYLIGHTING, OCCUPANCY SENSORS, ETC.

ELECTRICAL KEYNOTES

NO.	NOTE
1	PROVIDE KEYED SWITCH OR WITH LOCKABLE COVER. CONFIRM WITH OWNER PM, AND PROVIDE ACCORDINGLY.
2	MASTER LIGHTING CONTROL HUB AND OVERRIDE. COORDINATE EXACT LOCATION AND REQUIREMENTS WITH LIGHTING DESIGNER, AND PROVIDE ACCORDINGLY.
3	LIGHTING CONTROL PANEL. PROVIDE 120VAC BRANCH CIRCUIT. PRIOR TO START OF WORK, CONFIRM EXACT LOCATION AND REQUIREMENTS WITH LIGHTING DESIGNER, AND PROVIDE ACCORDINGLY.



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REFLECTED CEILING
PLAN - ELECTRICAL

SHEET NO. PROJ. NO.
023432

E210