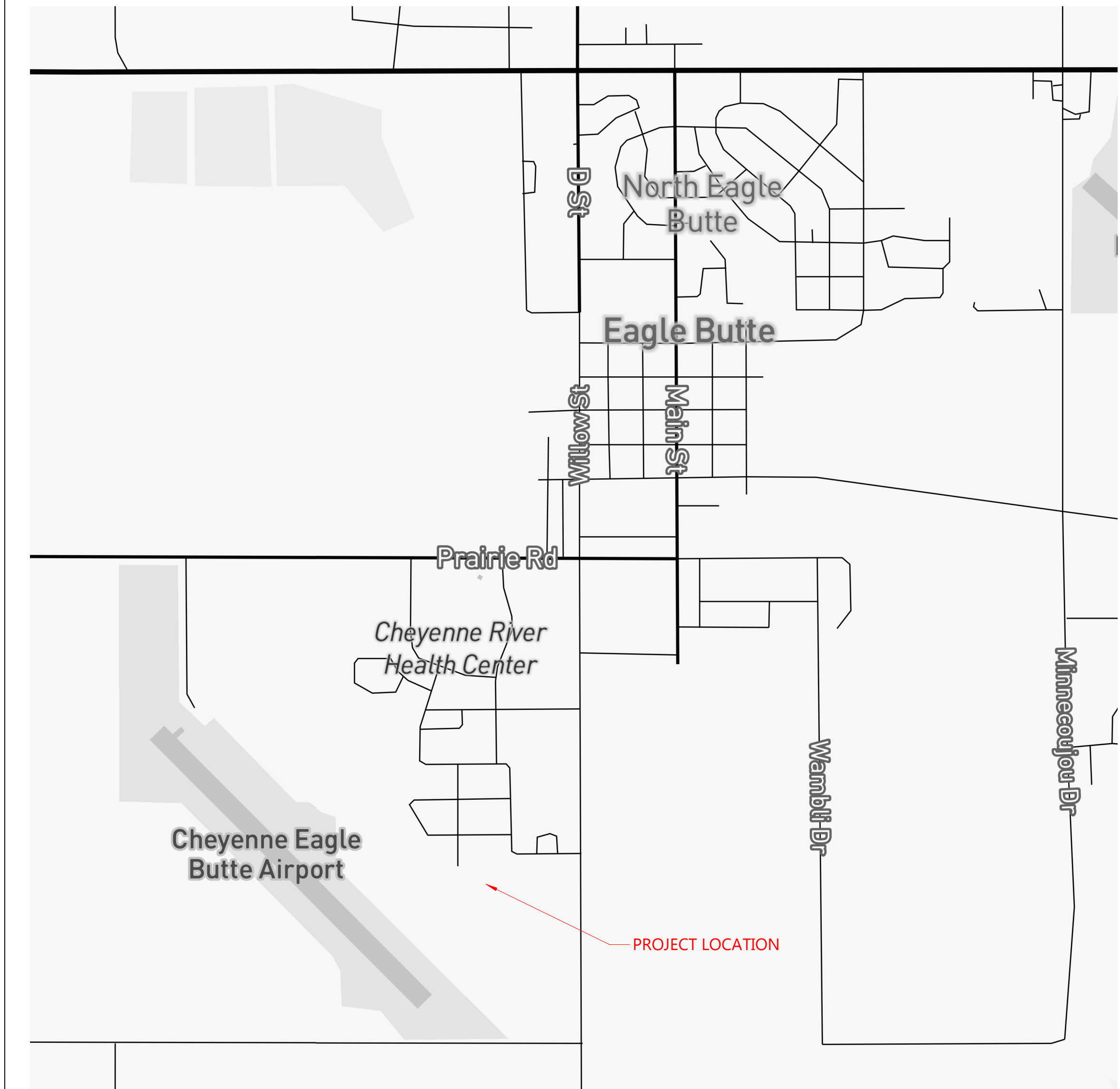


CRST TREATMENT CENTER

EAGLE BUTTE, SOUTH DAKOTA

CONSULTANTS



CLIENT
 CRST

PROJECT DESCRIPTION
 CRST TREATMENT CENTER

CITY EAGLE BUTTE
 STATE SOUTH DAKOTA

ISSUE DATES

NOT FOR CONSTRUCTION

MARK	DESCRIPTION	DATE

PROJECT NO: 20241210
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CONTACTS

STAMPS

DRAWING TITLE
 COVER SHEET

G001

Preliminary Building Code Analysis

CRST Substance Abuse Treatment

Project #20241210

Location: Address TBD, Eagle Butte, SD

Applicable Codes:

- 2021 International Building Code (IBC)
- 2009 ICC A117.7
- 2015 International Fire Code (IFC)
- 2015 Uniform Plumbing Code (UPC, state adopted)
- 2015 International Mechanical Code (IMC, state adopted)
- 2015 International Fuel Gas Code (state adopted)
- 2023 National Electric Code (NEC)
- 2009 Energy Conservation Code

Occupancy Classification: I-3, Condition 2. Use: Alcohol and drug treatment center with limited detention

308.4 Institutional Group I-3

Institutional Group I-3 occupancy shall include buildings and structures that are inhabited by more than five persons who are under no security. A Group I-3 facility is occupied by persons who are generally incapable of self-preservation due to security measures not under occupant control. This group shall include, but not be limited to, the following:

- Correctional centers
 - Detention centers
 - Jails
 - Prison/correction centers
 - Prisons
 - Reformatories
- Buildings of Group I-3 shall be classified as one of the occupancy conditions specified in Sections 308.4.1 through 308.4.5, comply with Section 408.

308.4.2 Condition 2

This occupancy condition shall include buildings in which free movement is allowed from sleeping areas and any other occupied compartment to one or more other smoke compartments. Egress to the exterior is impeded by locked exits.

Construction Type: V-B (assumed)

Fire Protection System:

Fire Sprinkler: Required, NFPA 13, reference 408.11 then 903.2.6 then 903.3.1.2

Fire Alarm: Required per 408.10

Fire Resistance Rating Requirements for Building Elements [T601]: Type V-B

Primary Structural Frame: 0

Exterior Bearing Walls: 0
 Interior Bearing Walls: 0
 Floor Construction & Members: 0 (See 711.2.6 Unusable space for the crawl space)
 Roof Construction & Members: 0

$A_g = A_s + (N_s \times l_g)$ If = 0.75 with 30 feet of open space on all sides of the building per table 506.3.3)
 $A_g = 20,000 + (5,000 \times 75)$
 $A_g = 23,750$ SF

Actual Area:
 Ground Level: 18,590 square feet, therefore OK

Occupant Load (T1004.5):

Ground Level: = 99
 Office Use 4,646 @ 1:150 = 31
 Residential Use 11,616 @ 1:200 = 59
 Commercial Kitchen Use 1,063 @ 1:200 = 9

Group I-3 occupancy with an occupant load of more than 50 will require the building to contain a minimum of two smoke compartments

Means of Egress Requirements:

Minimum Corridor Width (T-1020.3)

= 44 inches

Dead end corridor length (1020.5)

= 50 feet per exception 1

Exit Access Travel Distance (T1017.2)

= 200 feet

Common Path of Travel Distance (T1006.2.1)

= 100 feet

Other Notes:

Ventilation of the crawl space per 1202.4, mechanical ventilation per 1204.3

408.6 Smoke barrier

Occupancies in Group I-3 shall have smoke barriers complying with Sections 408.6 and 709 to divide every story occupied by residents for sleeping, or any other story having an occupant load of 50 or more persons, into not fewer than two smoke compartments.

Exception: Spaces having a direct exit to one of the following, provided that the locking arrangement of the doors involved complies with the requirements for doors at the smoke barrier for the use condition involved:

- A public way;
- A building separated from the resident housing area by a 2-hour fire-resistance-rated assembly or 90 feet (15 240 mm) of open space;
- A secondary or court having a holding space 50 feet (15 240 mm) from the housing area that provides 6 square feet (0.56 m²) or more of refuge area per occupant, including residents, staff and visitors.

Corridor Fire Resistance Rating (T-1020.2)

= 1 hour fire partitions

Corridor Doors = 20 minute (T716.1(2))

Note: corridor walls are not required to extend into crawl space if the floor assembly is 1-hour rated (708.4 exception 1)

Sleeping Units: verify that no separation is required, "cells" in I-3 are 1-hour

Laundry Rooms over 100 sf = 1 hour or fire sprinkler.

Building Height and Area:

Construction type = Assumed Type V-B

Allowable Height (TS04.3)

= 60 feet

Allowable Number of Stories (TS04.4)

= 2 stories

Tabular Area per Story (TS06.2)

= 20,000 sf/story (S1)

Allowable Area (Equation 5-1)

PROJECT DESCRIPTION

SHOULD INCLUDE: SCOPE / TYPE OF PROJECT (NEW BLDG, ADDITION, RENOVATION) / SPRINKLERS / OCCUPANCY OR USE, SINGLE OR MIXED / CONSTRUCTION TYPE / SPECIAL FEATURES (LIKE ATRIUM, OCCUPIED ROOF, HAZMAT) / SPECIAL CONSTRUCTION (TEMPORARY, CANOPY, WALKWAYS, BRIDGES, TUNNELS)

* SCOPE MIGHT INCLUDE SF AREA, # OF STORIES OR # OF BUILDINGS
 * TYPE OF PROJECT MIGHT INCLUDE FLOOR (RENOVATION OF 3RD FLOOR)

CODE REFERENCES

DESIGN IS BASED ON REQUIREMENTS FROM:

LSC NFPA 101 LIFE SAFETY CODE YEAR

LIFE SAFETY CODE ANALYSIS

OCCUPANCY GROUP --	CODE INFO
SPECIAL REQUIREMENTS --	CODE INFO
CONSTRUCTION TYPE --	CODE INFO
ALLOWABLES --	CODE INFO
FIRE RESISTANCE RATING DESCRIPTION	CODE INFO
FIRE PROTECTION NFPA 13	CODE INFO
EGRESS DESCRIPTION	CODE INFO
ACCESSIBILITY DESCRIPTION	CODE INFO
PLUMBING FIXTURES	CODE INFO
ENERGY REQUIREMENTS	CODE INFO

KEYNOTE LEGEND:

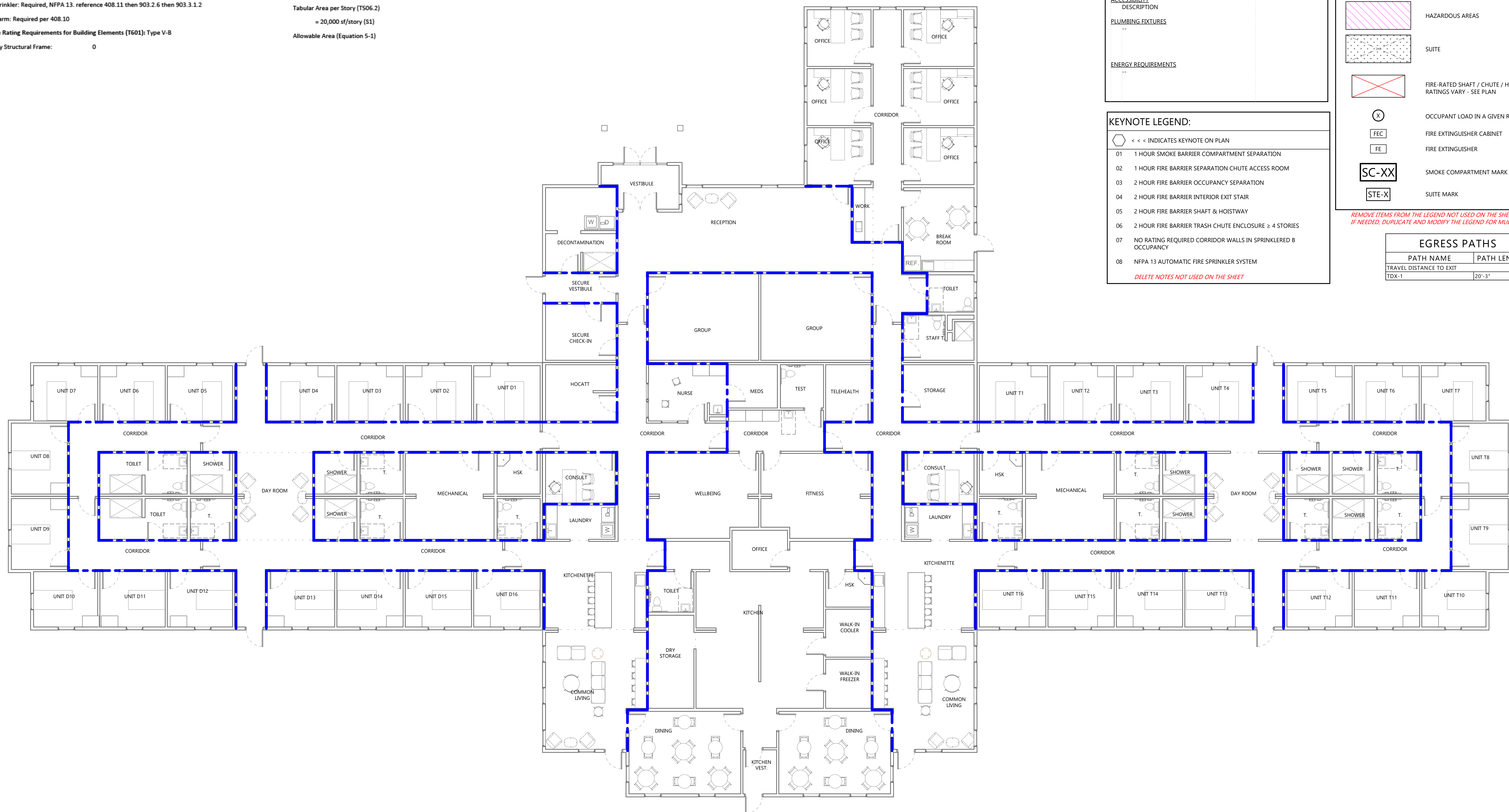
- <<< INDICATES KEYNOTE ON PLAN
 - 01 1 HOUR SMOKE BARRIER COMPARTMENT SEPARATION
 - 02 1 HOUR FIRE BARRIER SEPARATION CHUTE ACCESS ROOM
 - 03 2 HOUR FIRE BARRIER OCCUPANCY SEPARATION
 - 04 2 HOUR FIRE BARRIER INTERIOR EXIT STAIR
 - 05 2 HOUR FIRE BARRIER SHAFT & HOISTWAY
 - 06 2 HOUR FIRE BARRIER TRASH CHUTE ENCLOSURE ≥ 4 STORIES
 - 07 NO RATING REQUIRED CORRIDOR WALLS IN SPRINKLERED B OCCUPANCY
 - 08 NFPA 13 AUTOMATIC FIRE SPRINKLER SYSTEM
- DELETE NOTES NOT USED ON THE SHEET

LIFE SAFETY LEGEND

- 4 HOUR FIRE WALL
- 3 HOUR FIRE WALL
- 2 HOUR FIRE WALL
- 3 HOUR FIRE BARRIER
- 2 HOUR FIRE BARRIER
- 1 HOUR FIRE BARRIER
- 1 HOUR FIRE PARTITION
- 1/2 HOUR FIRE PARTITION
- 1 HOUR SMOKE BARRIER
- SMOKE PARTITION, LIMIT THE TRANSFER OF SMOKE
- 2 HOUR EXTERIOR RATED WALL
- 1 HOUR EXTERIOR RATED WALL
- EXIT/EXIT DISCHARGE CLEAR WIDTH IN INCHES OCCUPANT CAPACITY
- EXIT ACCESS CLEAR WIDTH IN INCHES OCCUPANT CAPACITY
- HORIZONTAL EXIT CLEAR WIDTH IN INCHES OCCUPANT CAPACITY
- COMMON PATH TRAVEL DISTANCE (CPTD) TRAVEL DISTANCE TO EXIT (TDX)
- HAZARDOUS AREAS
- SUITE
- FIRE-RATED SHAFT / CHUTE / HOISTWAY, RATINGS VARY - SEE PLAN
- OCCUPANT LOAD IN A GIVEN ROOM OR AREA
- FIRE EXTINGUISHER CABINET
- FIRE EXTINGUISHER
- SMOKE COMPARTMENT MARK
- SUITE MARK

EGRESS PATHS

PATH NAME	PATH LENGTH
TRAVEL DISTANCE TO EXIT	
TDX-1	20'-3"



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CITY EAGLE BUTTE
 STATE SOUTH DAKOTA

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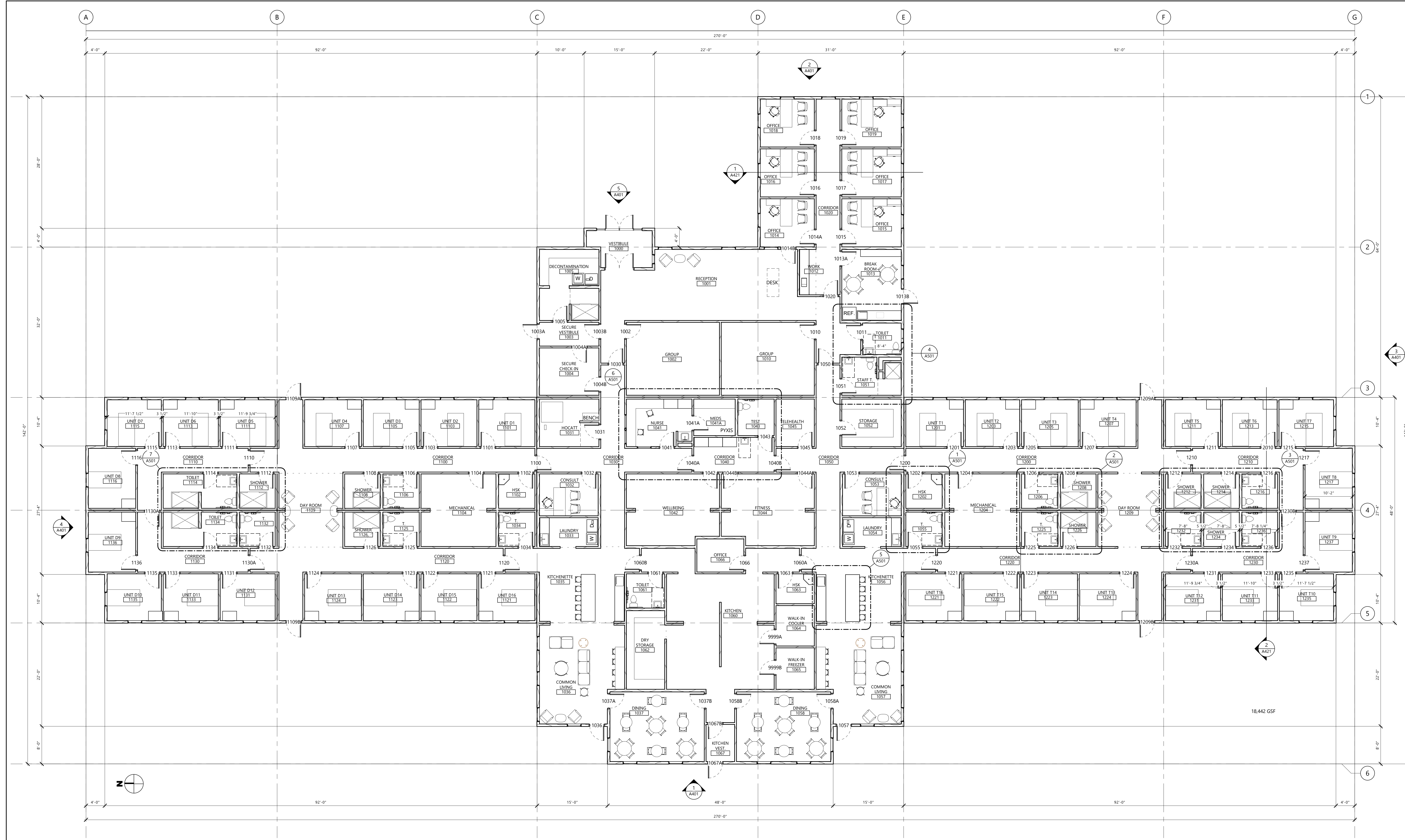
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 FIRST FLOOR PLAN

A201



1 FIRST FLOOR PLAN
 A201 1/8" = 1'-0"

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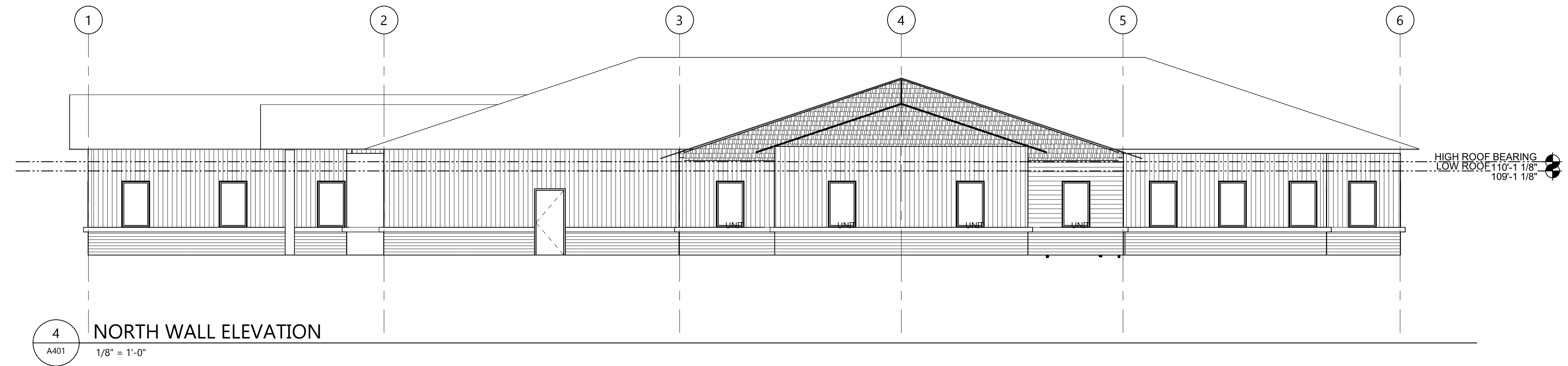
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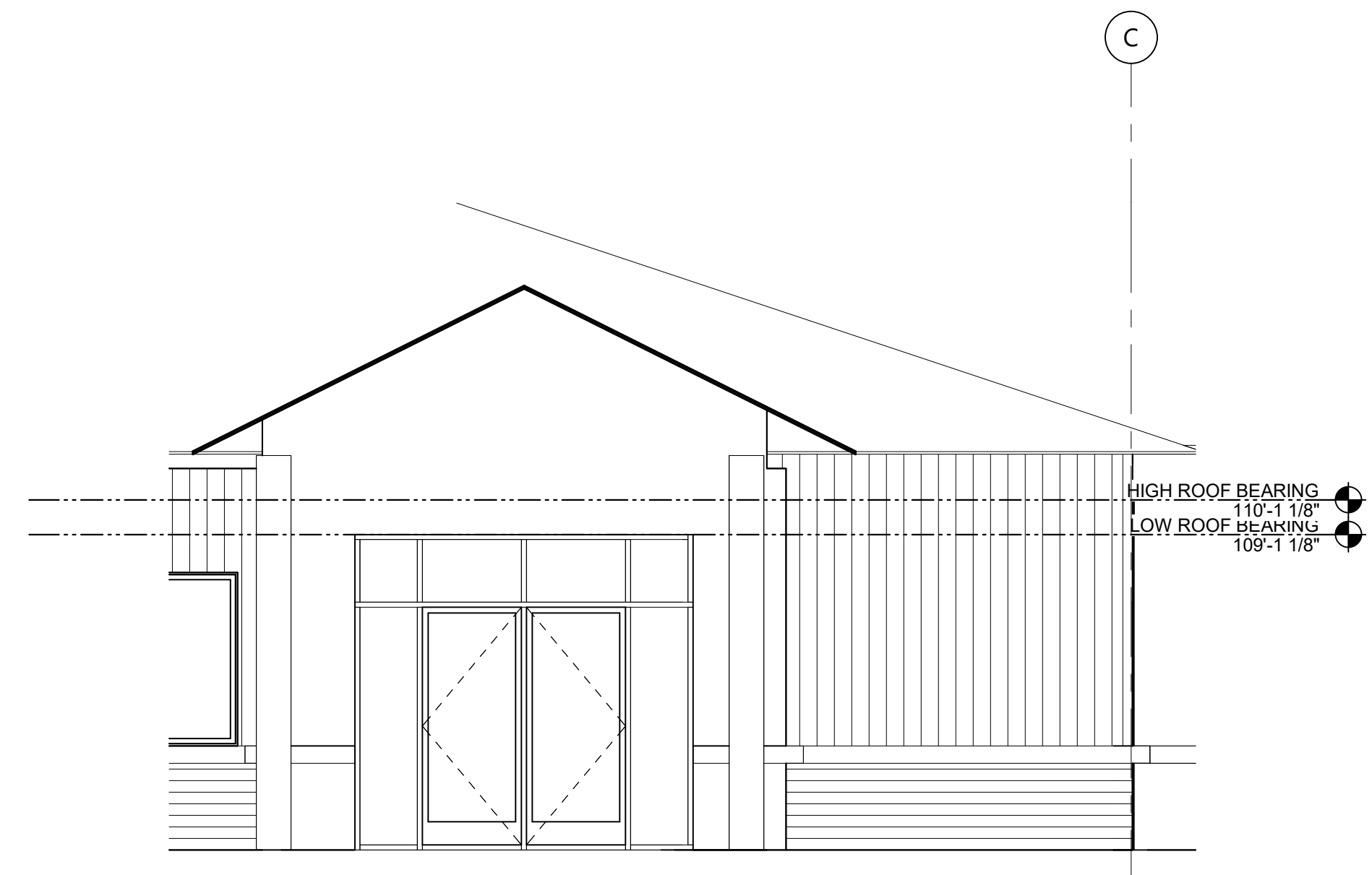
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 BUILDING ELEVATIONS

A401

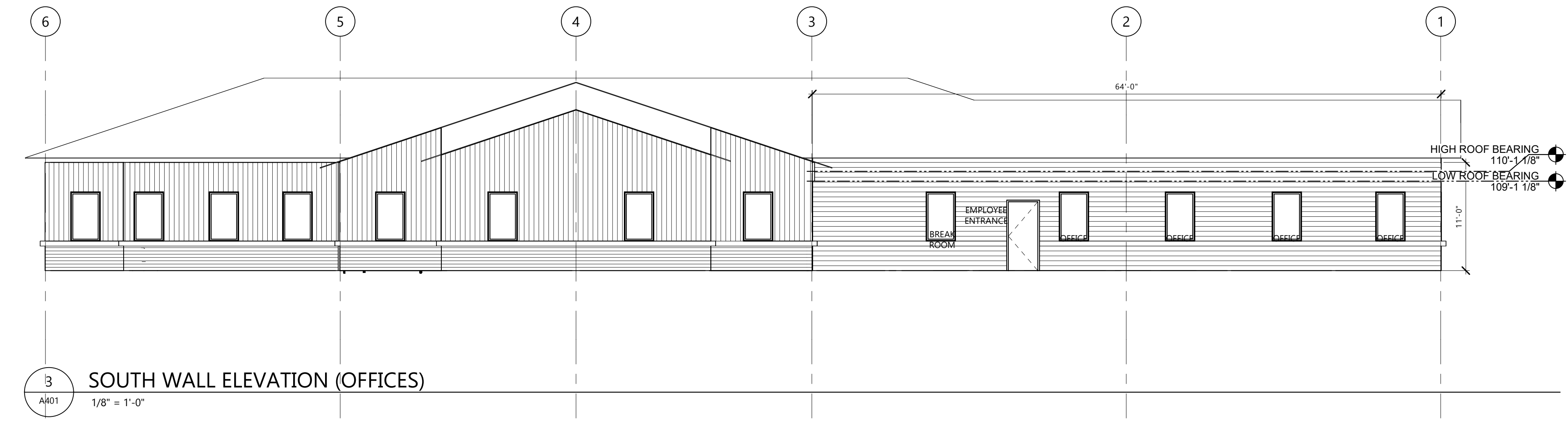
KEYNOTE LEGEND
 <<< INDICATES KEYNOTE ON PLAN



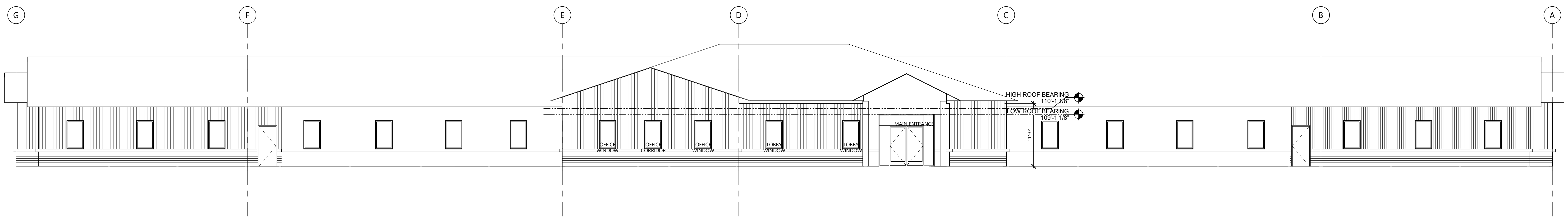
4 NORTH WALL ELEVATION
 1/8" = 1'-0"



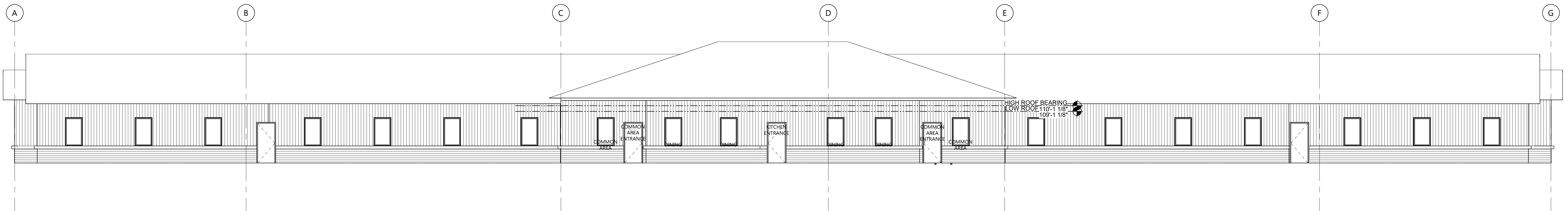
5 ENLARGED MAIN ENTRANCE
 1/4" = 1'-0"



3 SOUTH WALL ELEVATION (OFFICES)
 1/8" = 1'-0"



2 EAST EXTERIOR ELEVATION
 1/8" = 1'-0"



1 WEST WALL ELEVATION (KITCHEN ENTRANCE)
 1/8" = 1'-0"

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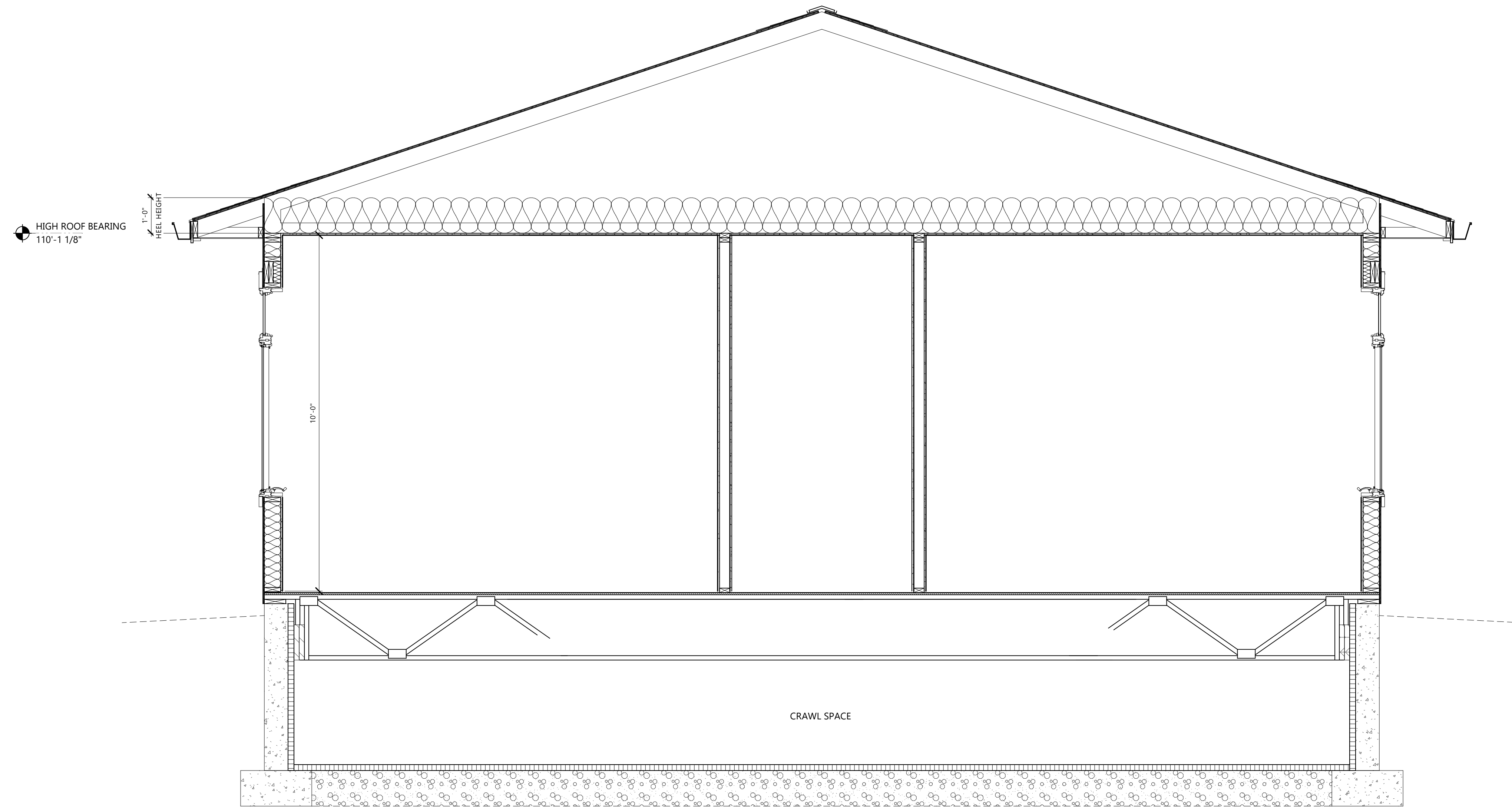
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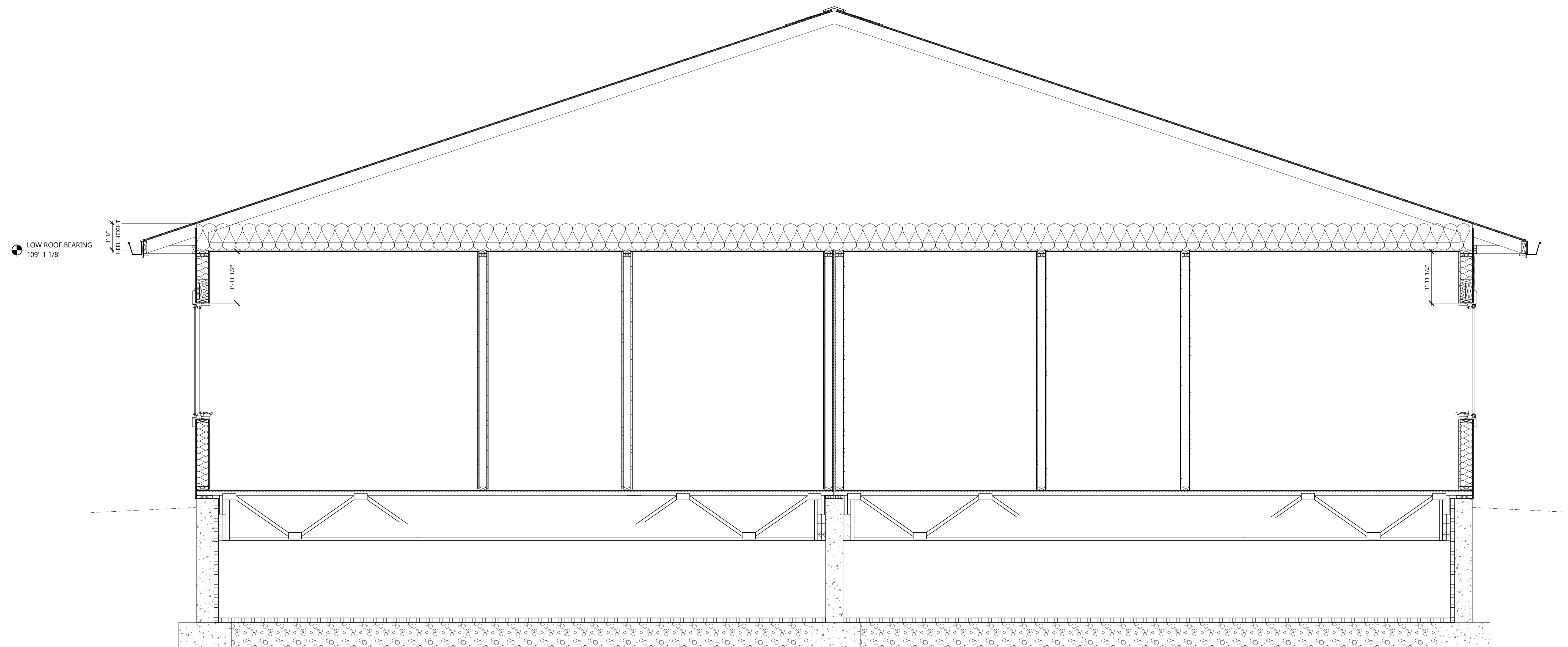
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DRAWING TITLE
 BUILDING SECTIONS

A421

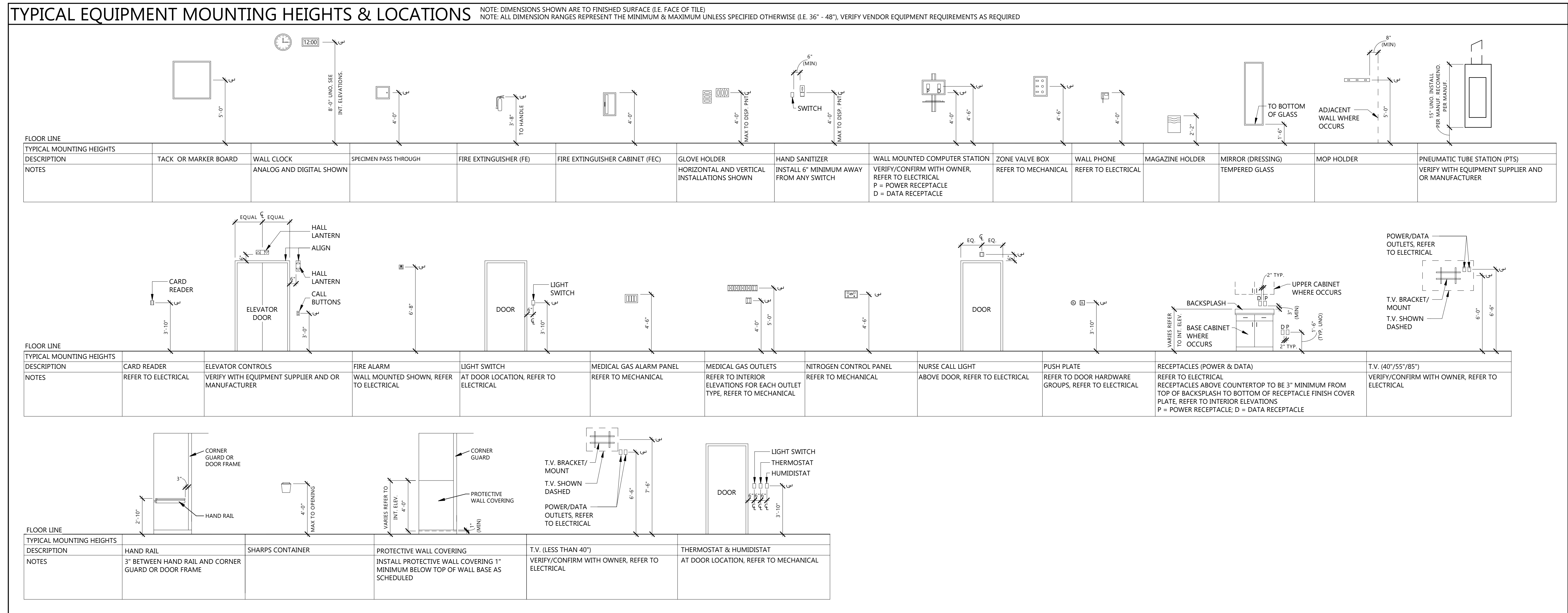


1 DD - Typical Section - Office
 A421 1/2" = 1'-0"



2 DD - Typical Section - Wing
 A421 1/2" = 1'-0"

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 MOUNTING HEIGHT DIAGRAMS

A002

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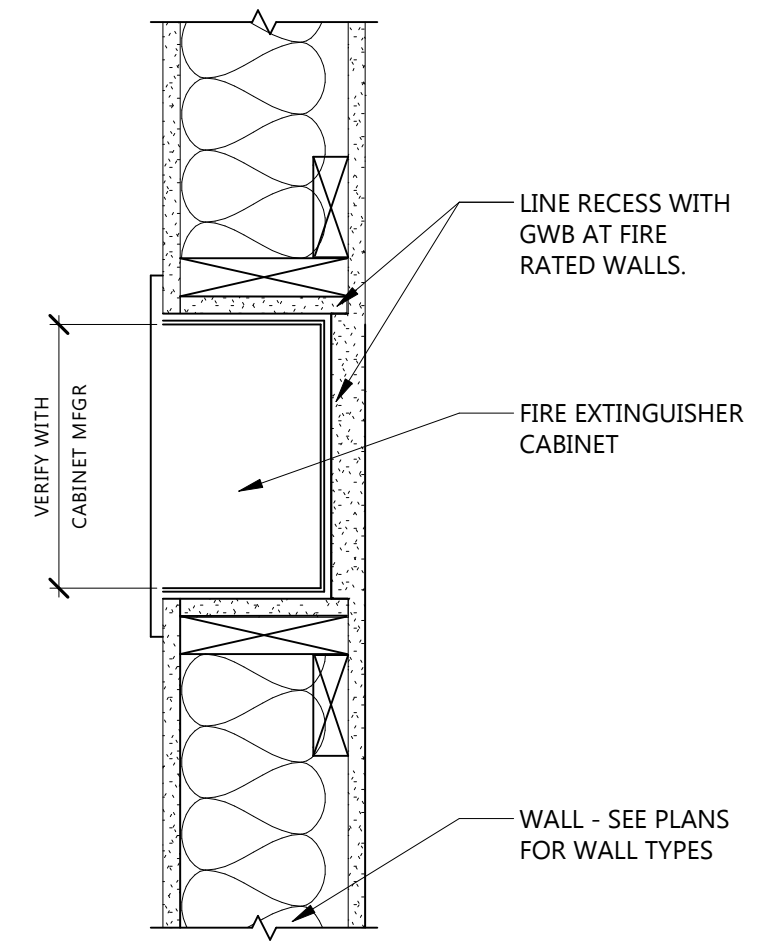
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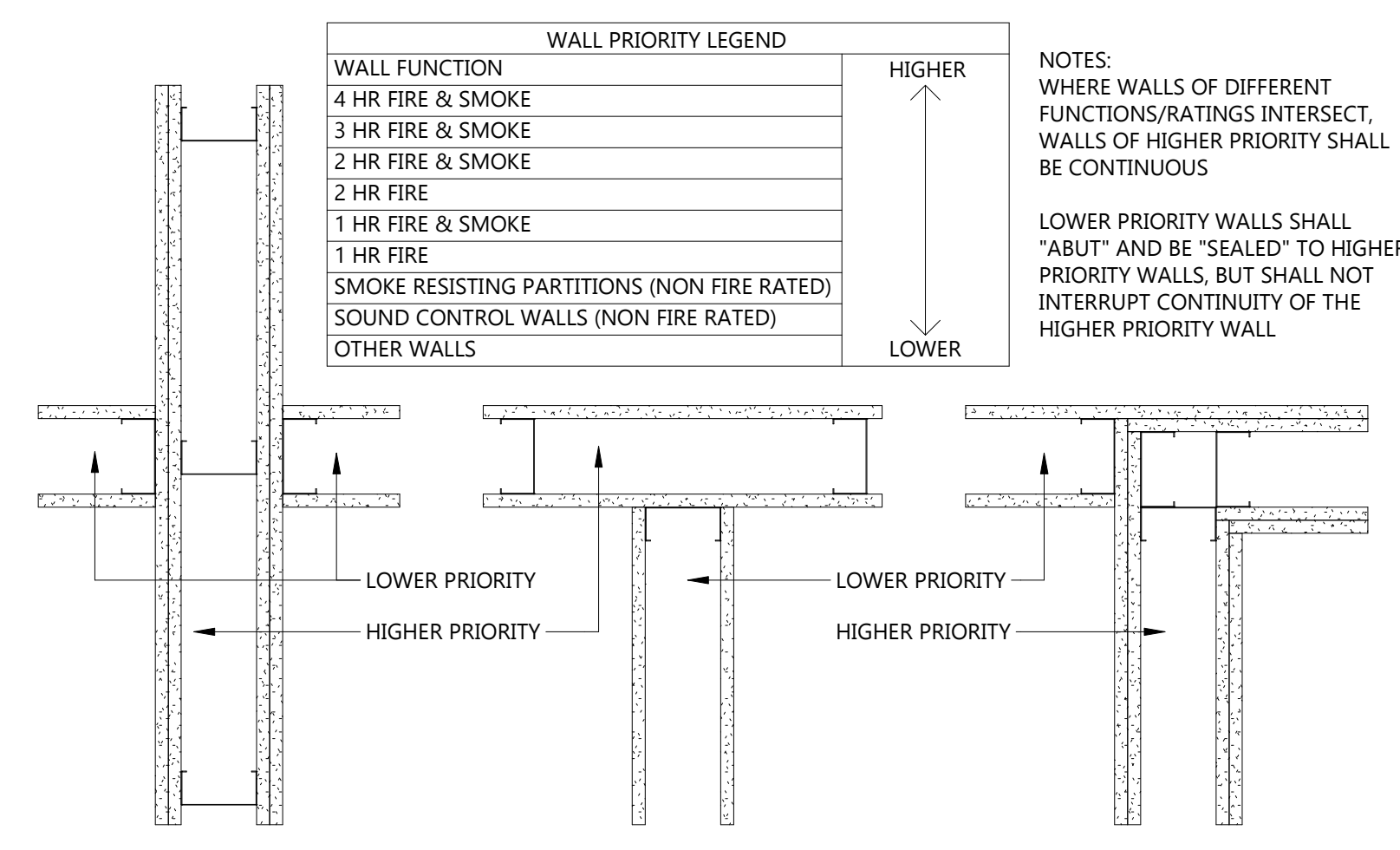
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DRAWING TITLE
 WALL, FLOOR AND ROOF TYPES

A021



12 RECESSED FEC
 A021 1/4" = 1'-0"



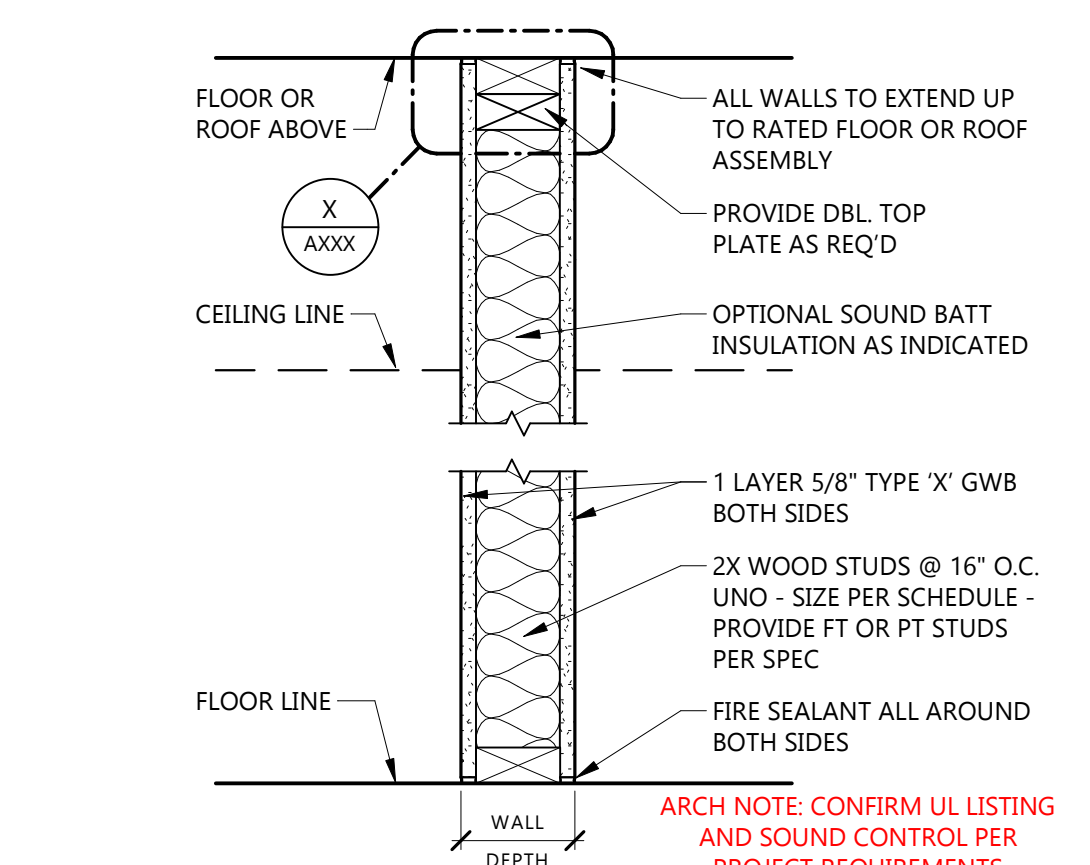
11 WALL PRIORITY LEGEND
 A021 1 1/2" = 1'-0"

GENERAL INTERIOR PARTITION NOTES

- SEE FLOOR PLANS FOR EXTENT OF EACH WALL
- ON ALL RESTROOM WALLS AND OTHER AREAS SCHEDULED TO RECEIVE FRP OR TILE FINISH, PROVIDE A MINIMUM OF MOISTURE-RESISTANT GYPSUM BOARD.
- ALL PARTITIONS CONTAINING PLUMBING OR HAVING AN EXTERIOR FACE SHALL BE INSULATED.
- WHERE GYPSUM BOARD EXTENDS TO UNDERSIDE OF STRUCTURE ABOVE, STOP GYPSUM BOARD 1/2" BELOW LINE OF STRUCTURE AND SEAL AS REQUIRED.
- REFERENCE FLOOR FINISH PLANS AND WALL FINISH PLANS FOR ADDITIONAL FINISHES NOT INDICATED ON PARTITION TYPES.
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF WALL PENETRATIONS. SEAL ALL OPENINGS WITH ACOUSTICAL SEALANT.
- PROVIDE FIRE-TREATED WOOD OR STEEL BACKING FOR ALL WALL-MOUNTED FINISH CARPENTRY, ARCHITECTURAL WOODWORK, TOILET PARTITIONS, ACCESSORIES AND OTHER SIMILAR ITEMS.

FIRE-RATED PARTITION NOTES:

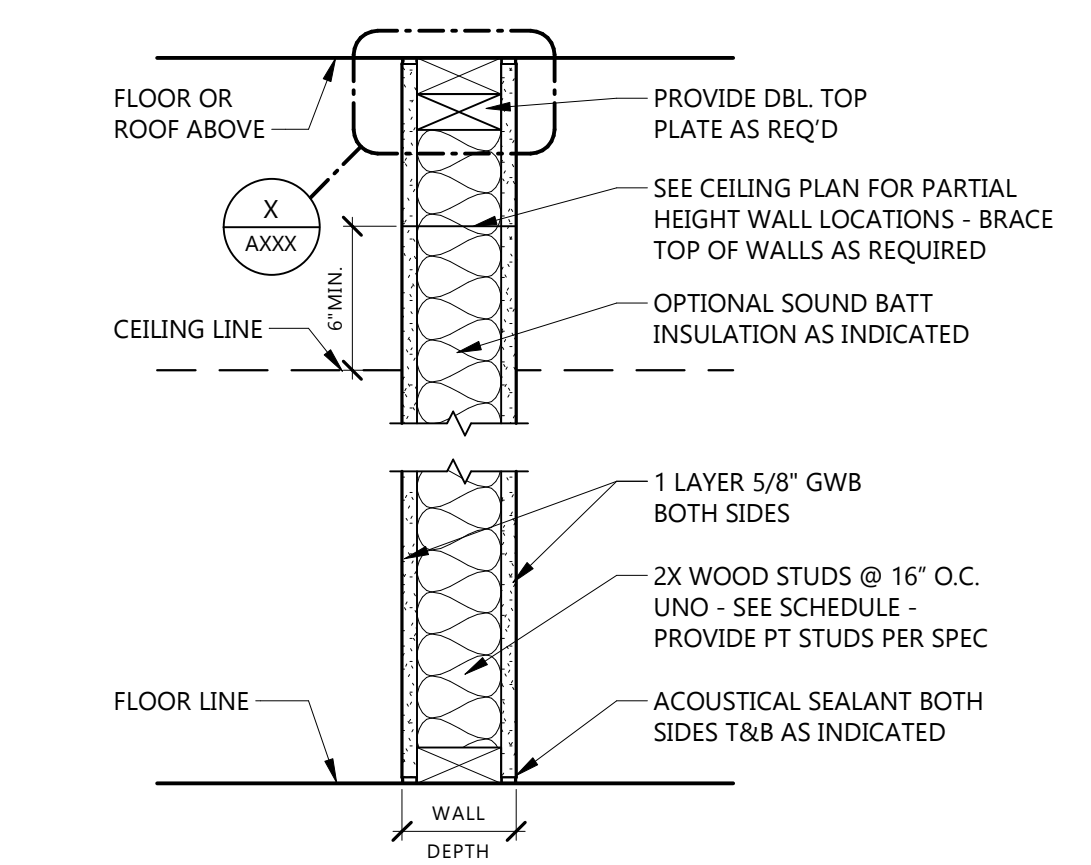
- ALL PARTITIONS NOTED TO BE FIRE-RESISTANCE RATED SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH THE FIRE RESISTANCE TESTS.
- FIRE-RATED PARTITIONS SHALL BE CONSTRUCTED BEFORE NON-RATED PARTITIONS.
- ALL FIRE-RATED PARTITIONS TO EXTEND FROM TOP OF UNFINISHED FLOOR TO UNDERSIDE OF STRUCTURE ABOVE. SEAL TOP, BOTTOM AND ALL PENETRATIONS WITH FIRE-RATED SEALANT.
- ALL PENETRATIONS IN FIRE-RATED PARTITIONS SHALL BE SEALED WITH MATERIALS, SEALANTS AND/OR ASSEMBLIES WHICH MAINTAIN THE FIRE-RESISTANCE RATING OF THE PARTITION



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	SOUND ATTENUATION			NOTES
					SAB	STC	TEST	

SEE LIFE SAFETY PLAN FOR 1-HOUR F.R. ASSEMBLY TYPES AND LOCATIONS

D 1-HOUR RATED GWB ON WOOD STUDS



TYPE MARK	STUD SIZE	WALL DEPTH	FIRE RATING	FIRE TEST	SOUND ATTENUATION			NOTES
					SAB	STC	TEST	
B5	3 1/2"	4 3/4"	NR	-	3 1/2"	-	-	2x4
B7	5 1/2"	6 3/4"	NR	-	5 1/2"	-	-	2x6

SEE LIFE SAFETY PLAN FOR N.R. SMOKE-RESISTIVE WALL LOCATIONS

B NON-RATED GWB ON WOOD STUDS

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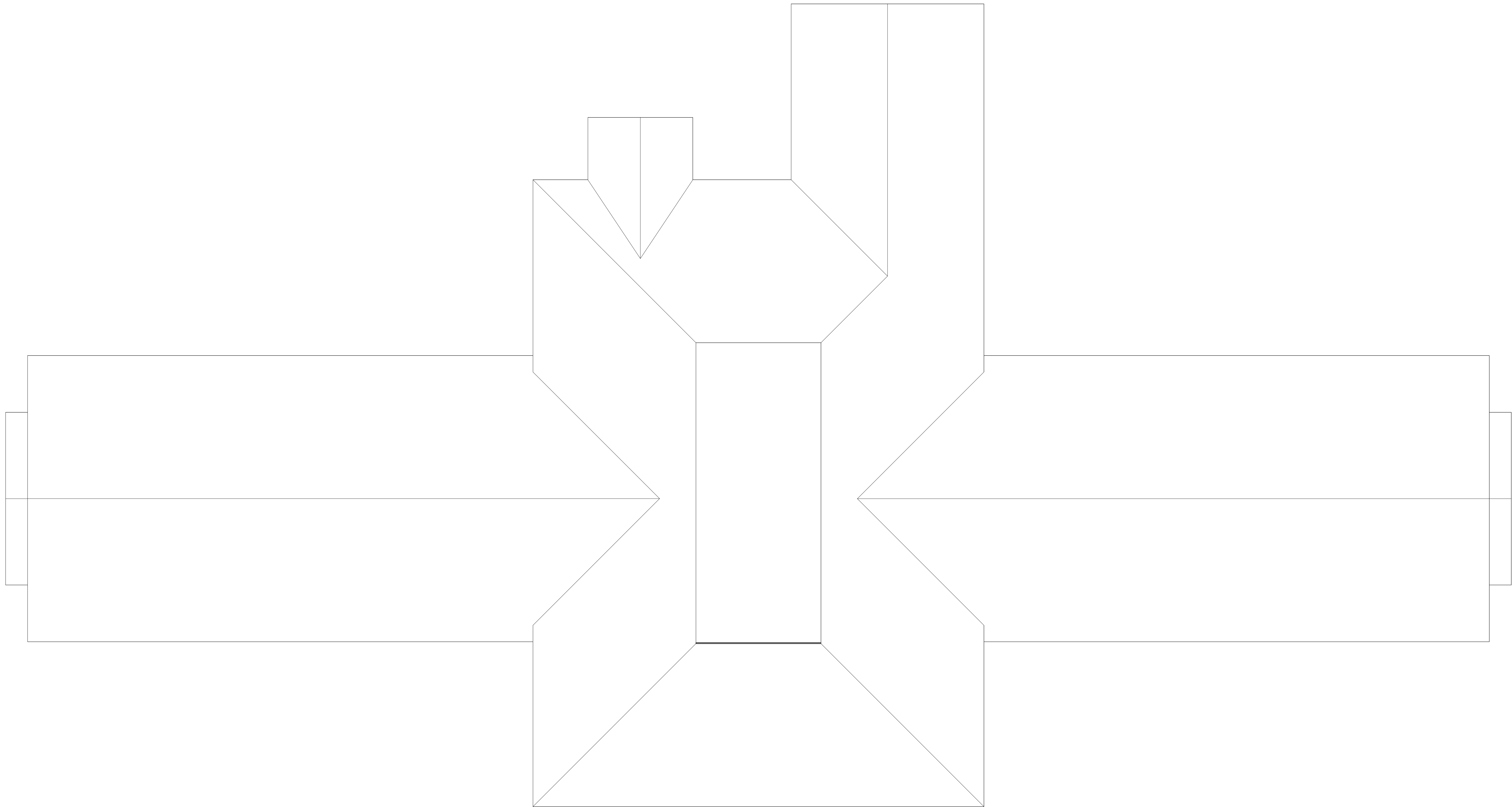
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ROOF PLAN

A221

GENERAL NOTES
1. NOTE
2. NOTE



GENERAL NOTES

- NOTE
- NOTE

KEYNOTE LEGEND:

◊ ◊ ◊ INDICATES KEYNOTE ON PLAN

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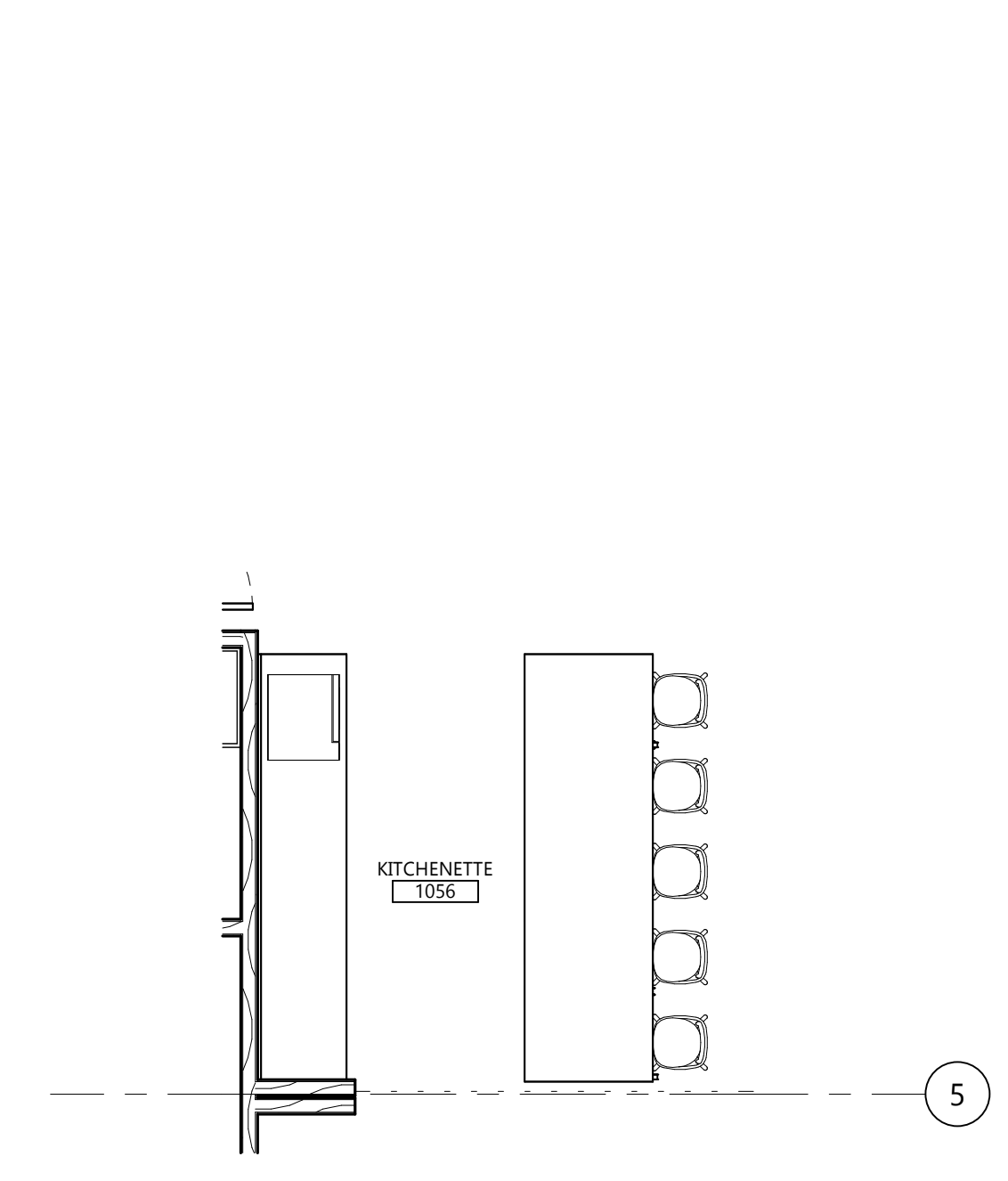
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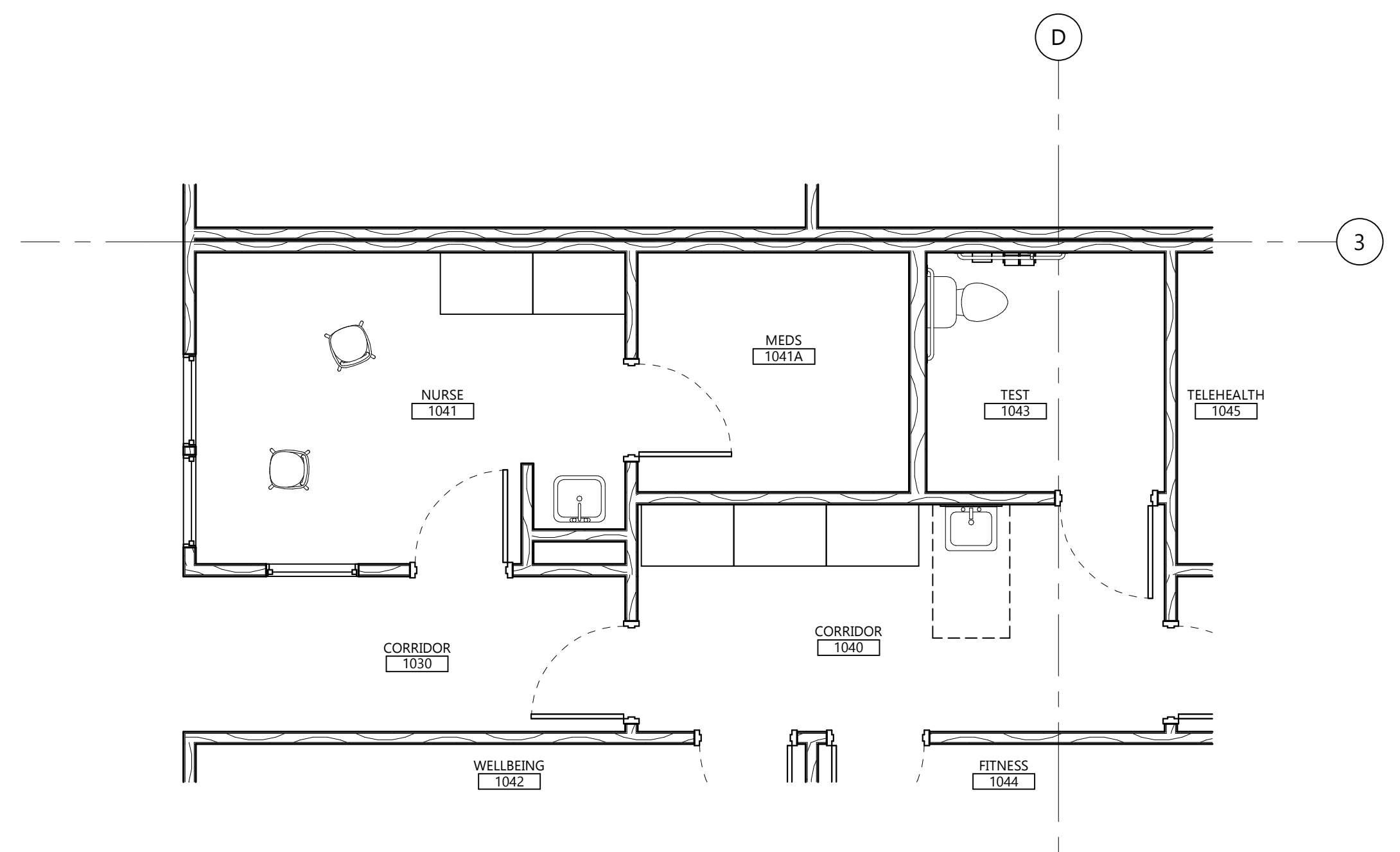
STAMP

DRAWING TITLE
 ENLARGED FLOOR PLANS

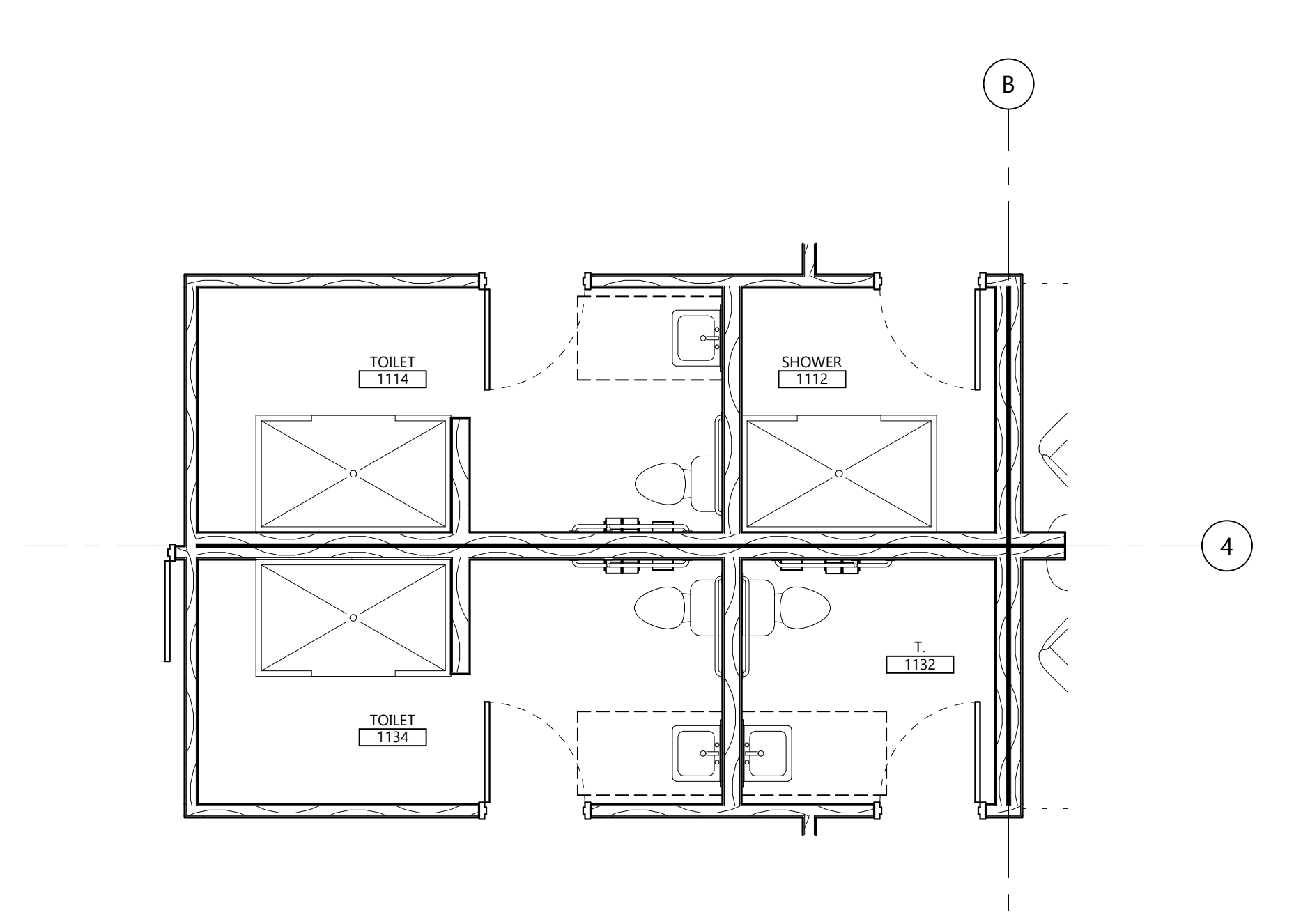
A501



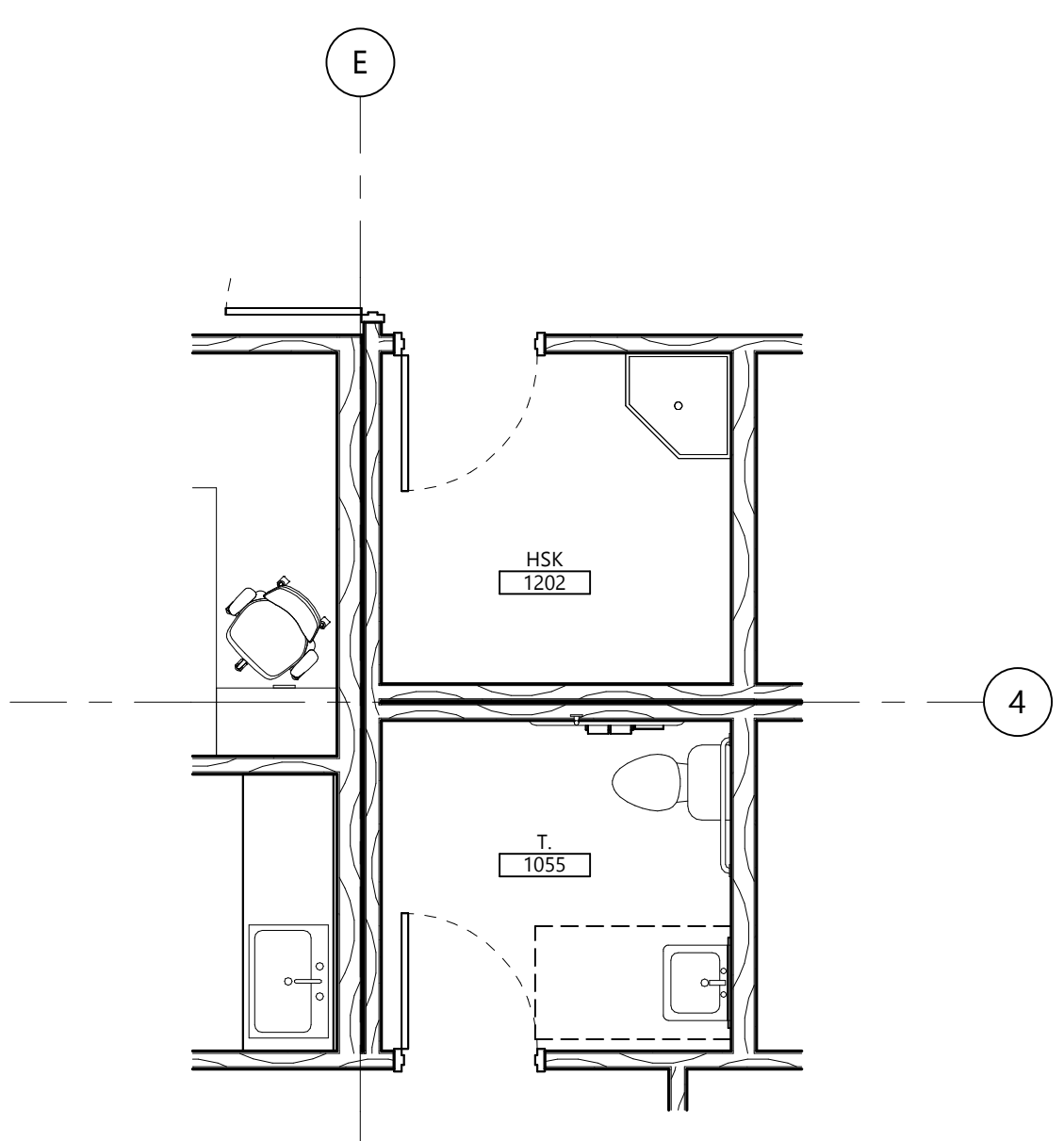
5 KITCHENETTE
 A501 1/4" = 1'-0"



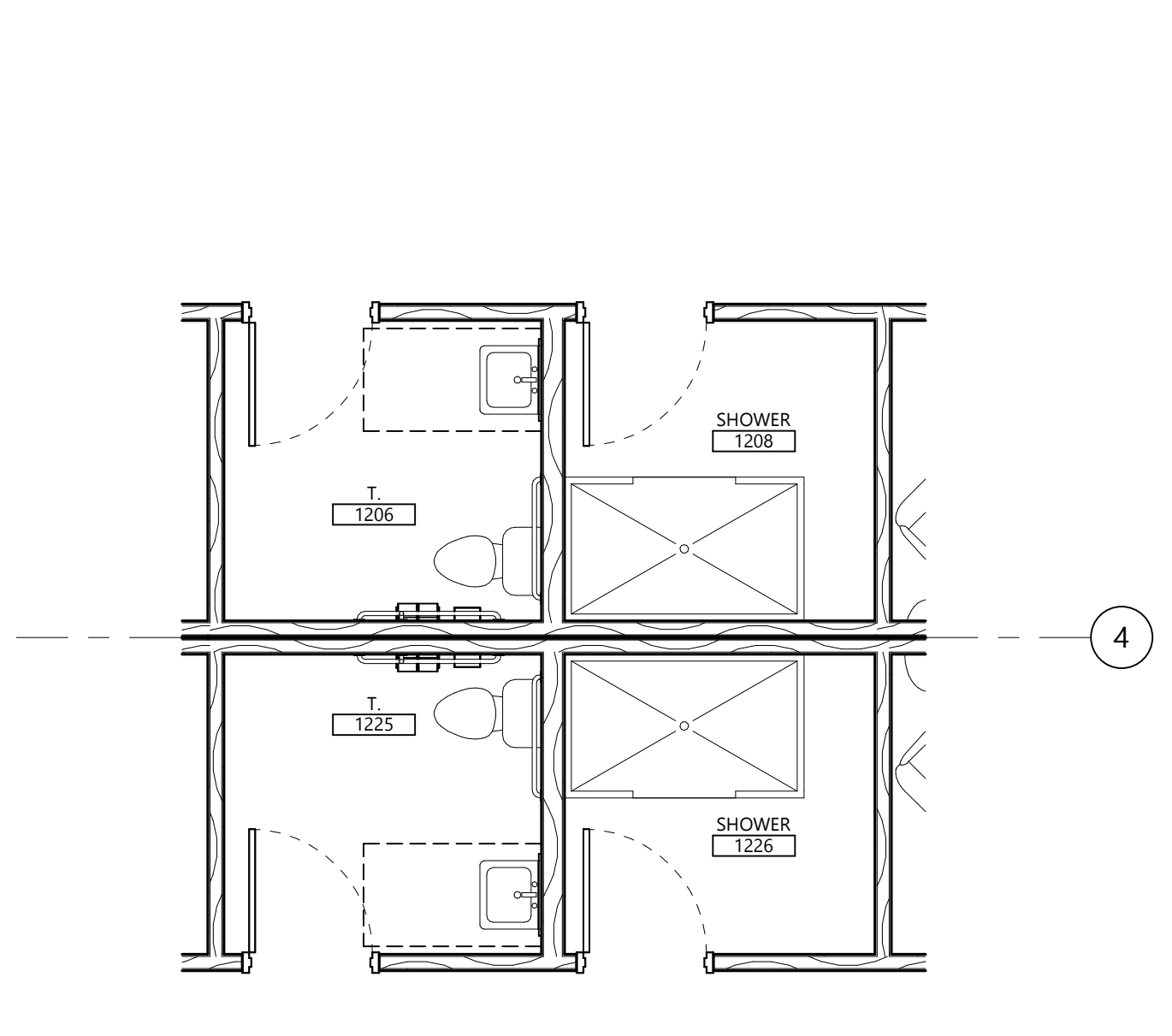
6 NURSE STATION
 A501 1/4" = 1'-0"



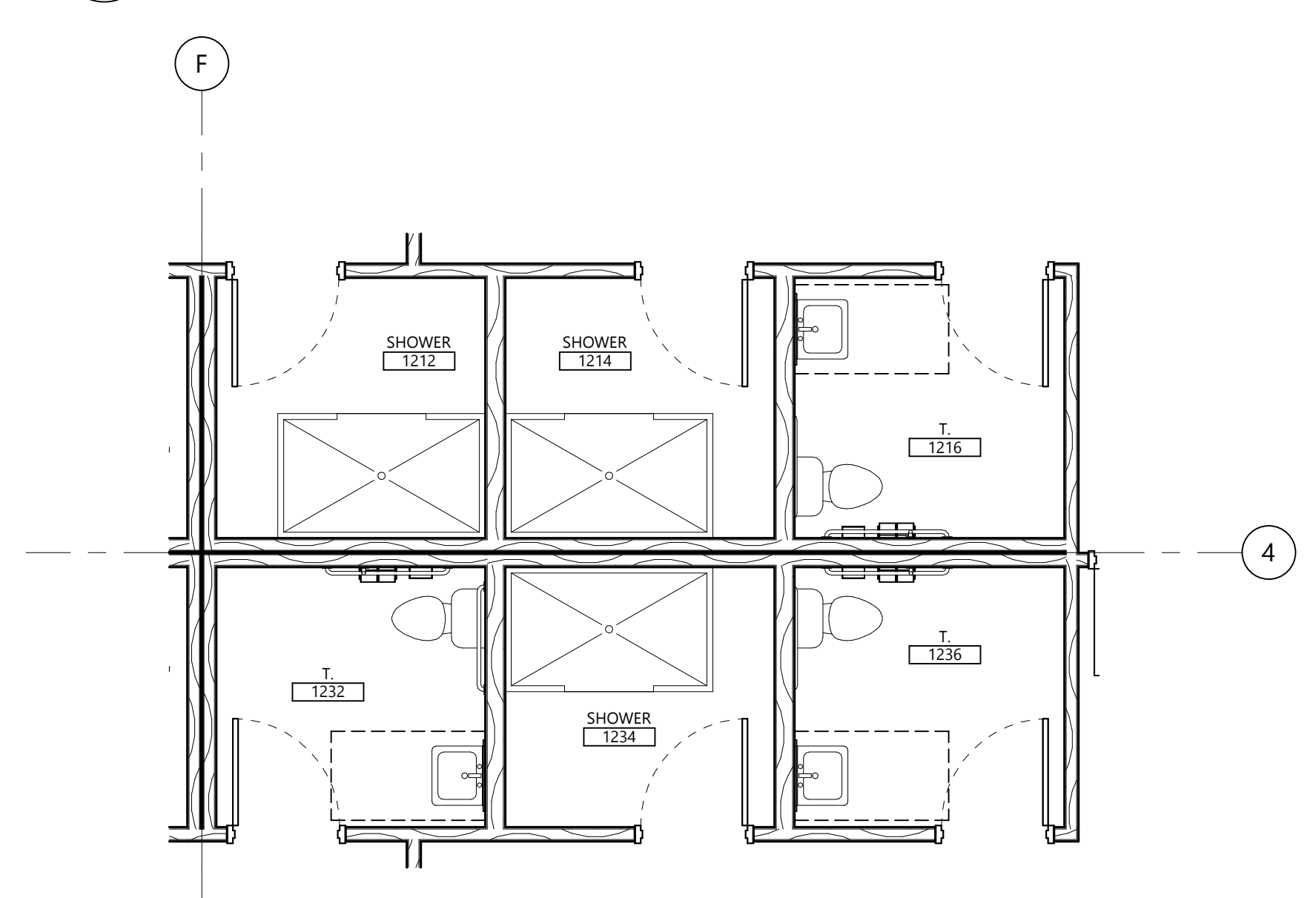
7 DETOX WING TOILET AND SHOWER
 A501 1/4" = 1'-0"



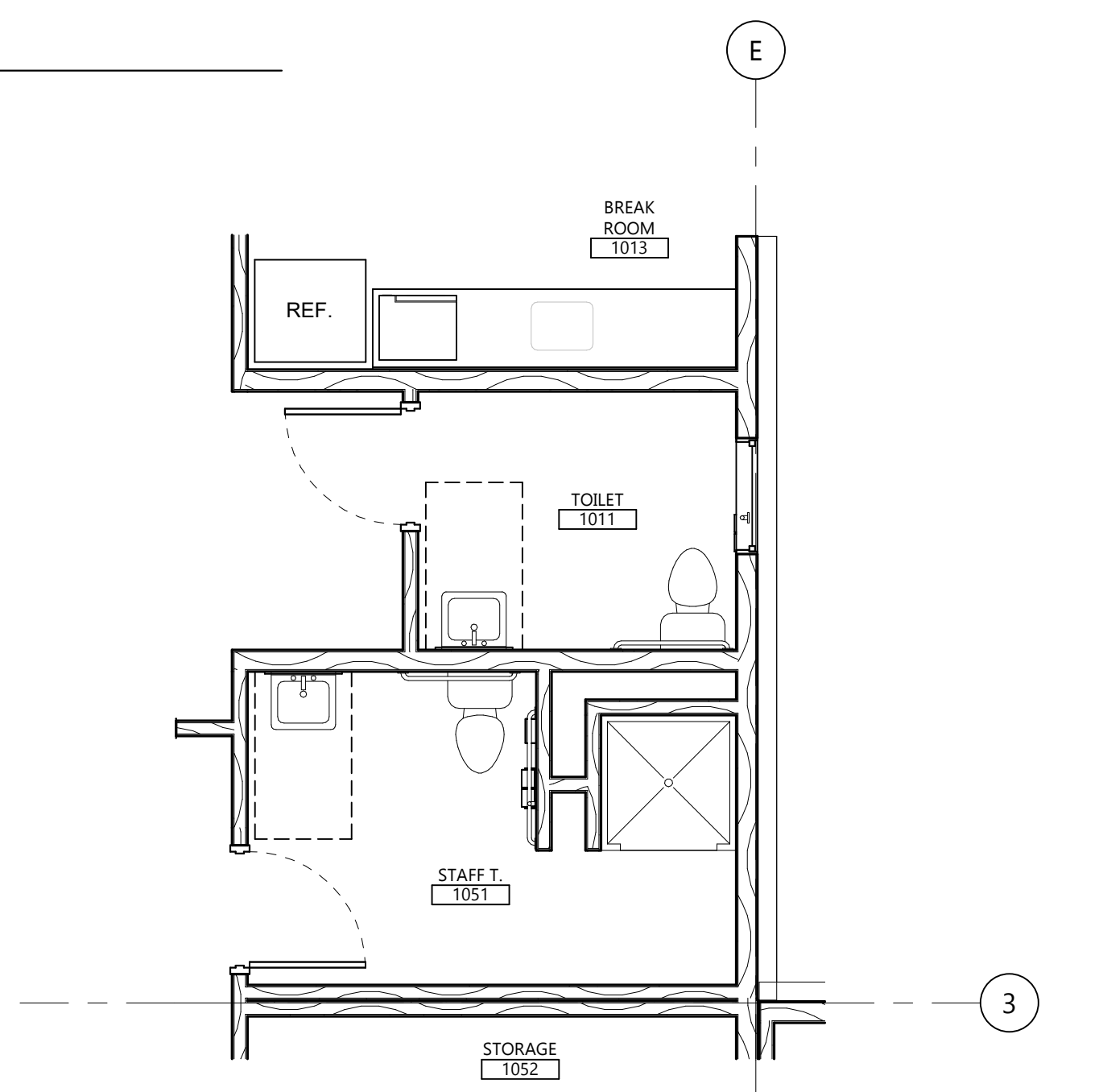
1 UNIT TOILET AND HSK ROOMS
 A501 1/4" = 1'-0"



2 UNIT SHOWER AND TOILET ROOMS -FOUR
 A501 1/4" = 1'-0"



3 UNIT SHOWER AND TOILET ROOMS - SIX
 A501 1/4" = 1'-0"



4 STAFF AND LOBBY TOILET ROOMS
 A501 1/4" = 1'-0"

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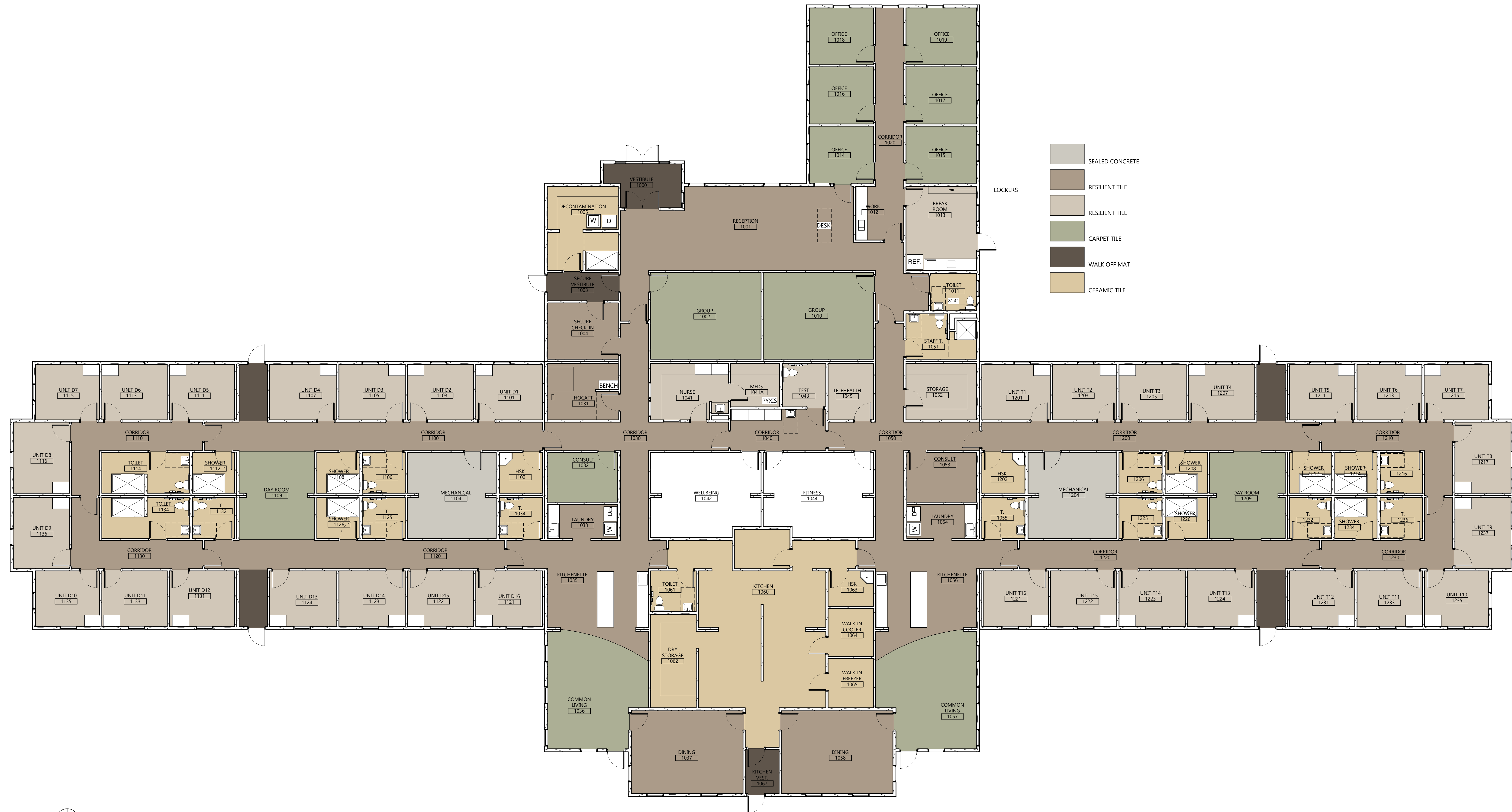
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 FINISH PLAN

A901



1 FIRST FLOOR FINISH PLAN
 A901 1/8" = 1'-0"

Report Version: 2023-03-22 10:45:15 AM
 Plot Date: 03/22/2024 4:01:15 PM

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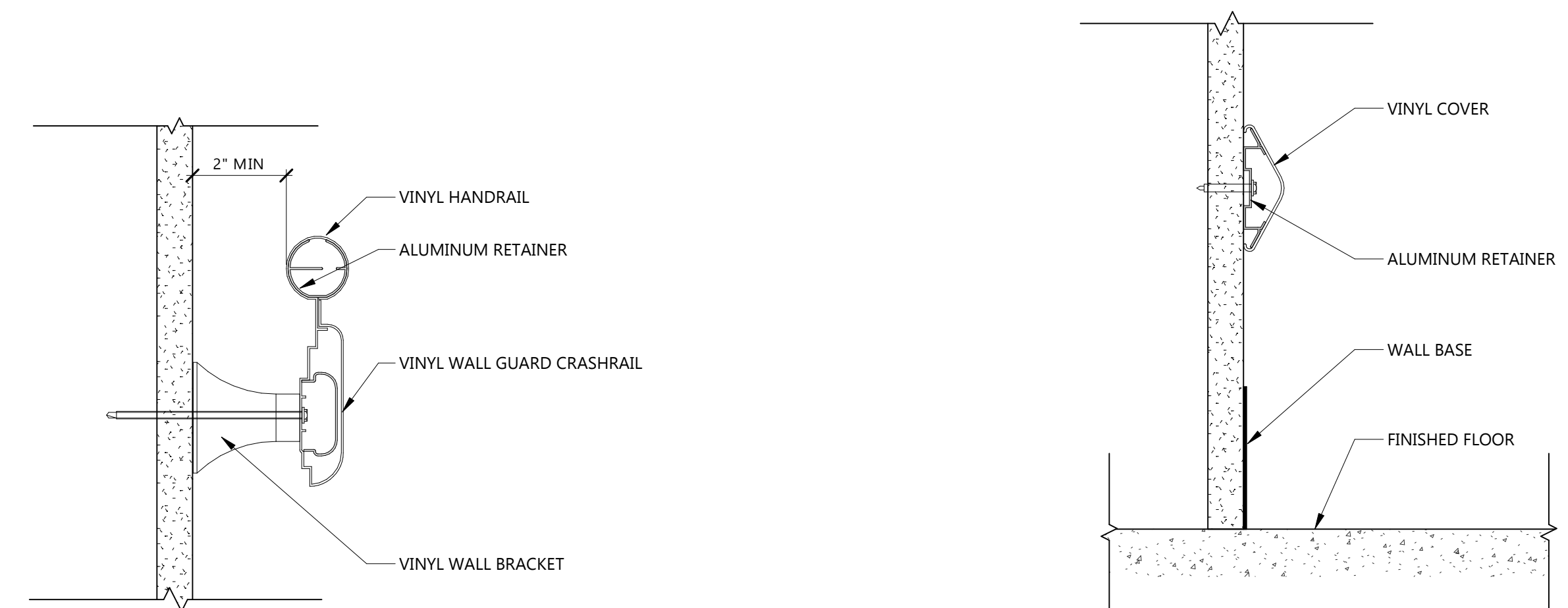
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DRAWING TITLE
INTERIOR FINISH DETAILS & MATERIAL IDENTIFICATION CODES

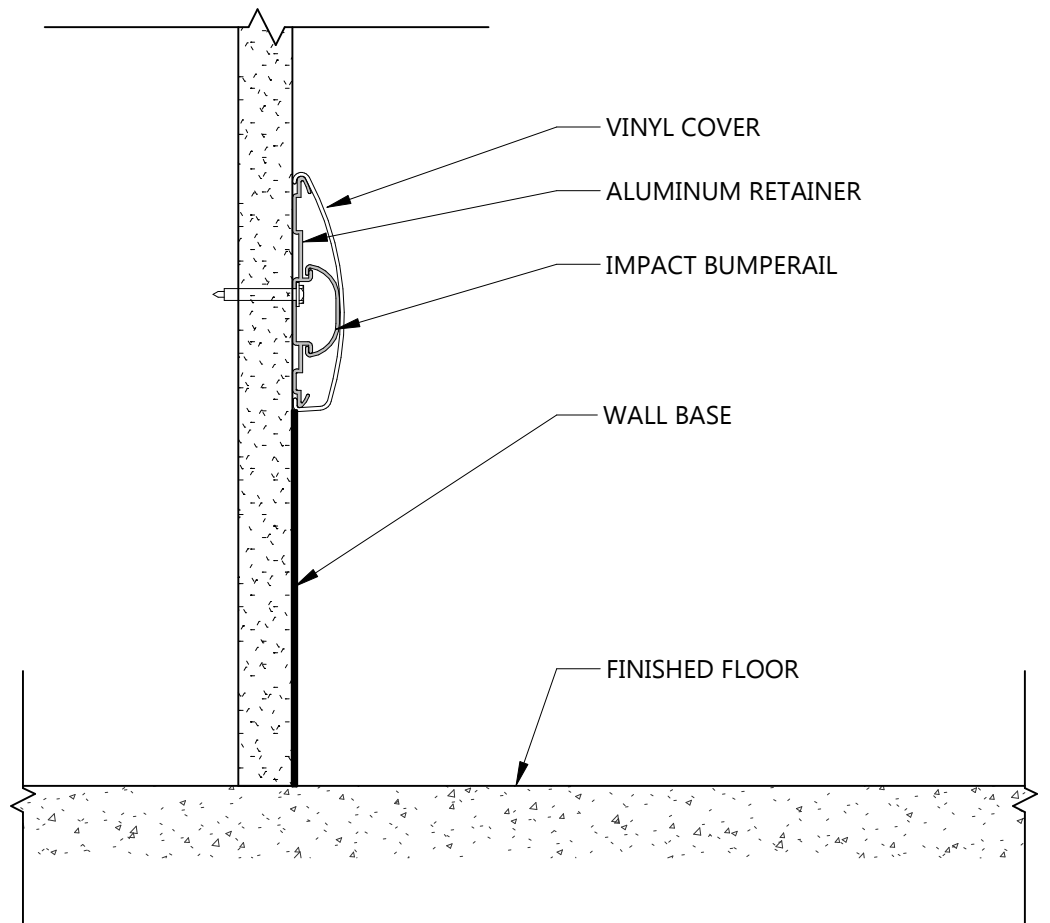
A921

MATERIAL IDENTIFICATION CODES

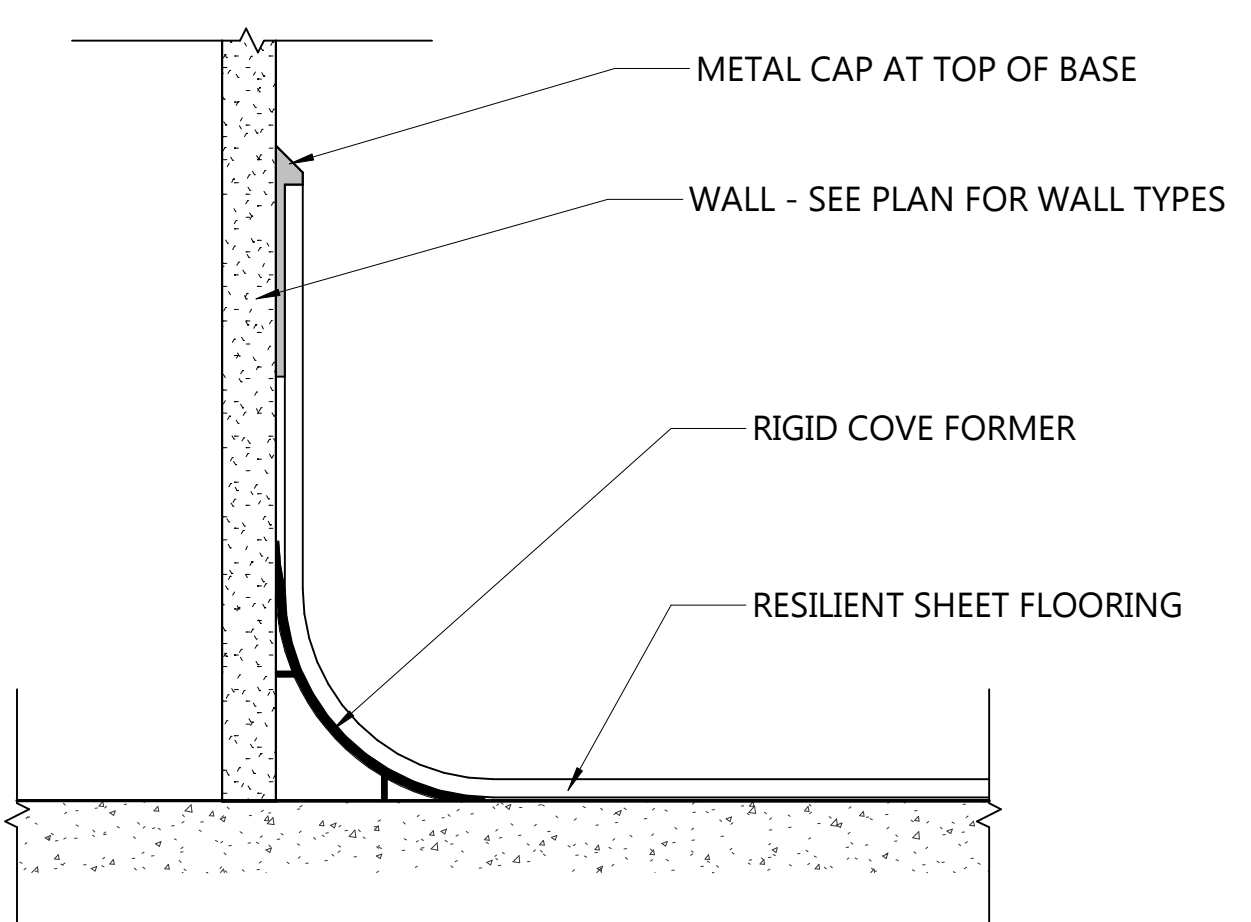
06.4116	PLAM	PLASTIC LAMINATE CLAD ARCHITECTURAL CABINETS
	PLAM-1	
08.8000	GL	GLAZING
	GL-1	
09.3013	CTW, CTF, CTB	CERAMIC TILING
	CTW-1	
	CTF-1	
	CTB-1	
09.5113	ACT	ACOUSTICAL PANEL CEILINGS
	ACT-1	
09.6513	RB, TS	RESILIENT BASE AND ACCESSORIES
	RB-1	
	TS-1	
09.6516	RSF	RESILIENT SHEET FLOORING
	RSF-1	
09.6519	RTF	RESILIENT TILE FLOORING
	RTF-1	
09.6723	RES	RESINOUS FLOORING
	RES-1	
09.6813	CPT	TILE CARPETING
	CPT-1	
09.7200	VWC	WALL COVERING
	VWC-1	
09.9000	PNT	INTERIOR/EXTERIOR PAINTING
	PNT-1	
10.2113	PTC	PLASTIC TOILET COMPARTMENTS
	PTC-1	
10.2123	CC	CUBICLE CURTAINS AND TRACK
	CC-1	
10.2600	VARIES	WALL AND DOOR PROTECTION
	CG-1	
	HR-1	
	WP-1	
	CR-1	
	BR-1	
	RR-1	
	CHR-1	
10.2800	VARIES	TOILET, BATH, AND LAUNDRY ACCESSORIES
	TA-1	
	SC-1	
12.2413	WT	ROLLER WINDOW SHADES
	WT-1	
12.3661.16	SSF	SOLID SURFACE FABRICATION
	SSF-1	



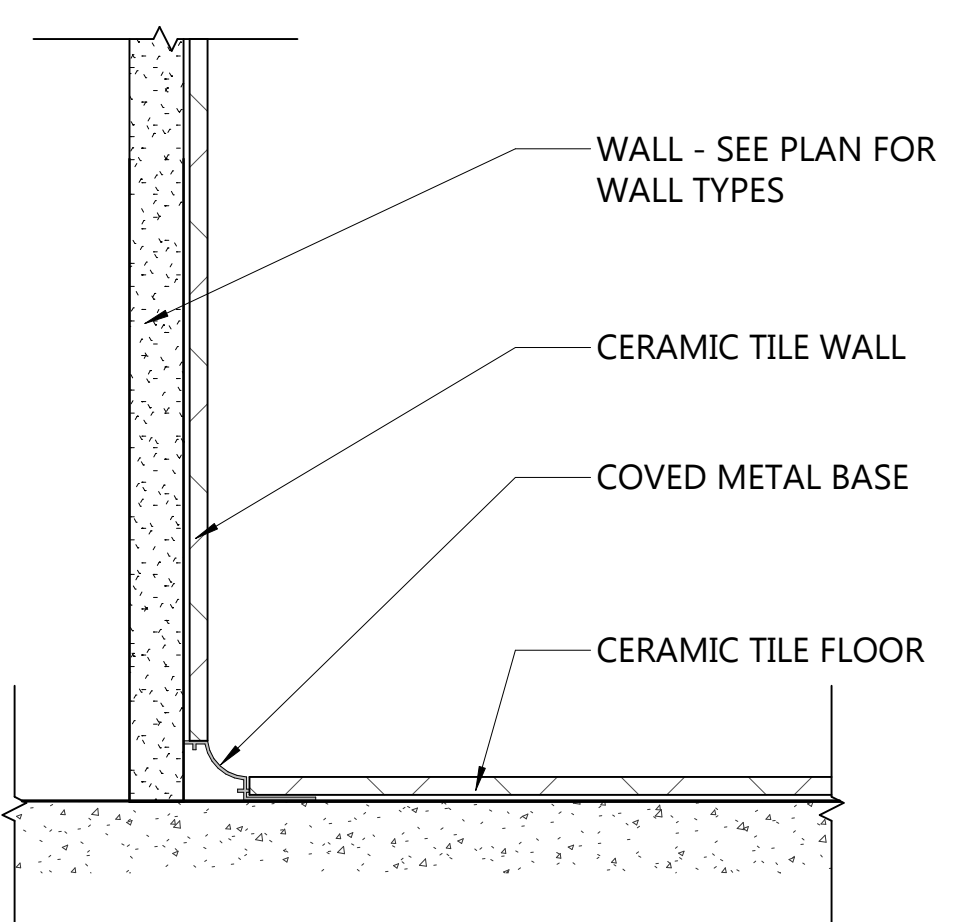
12
A921
FINISH DETAIL - WALL GUARD (BED LOCATOR)
NOT TO SCALE



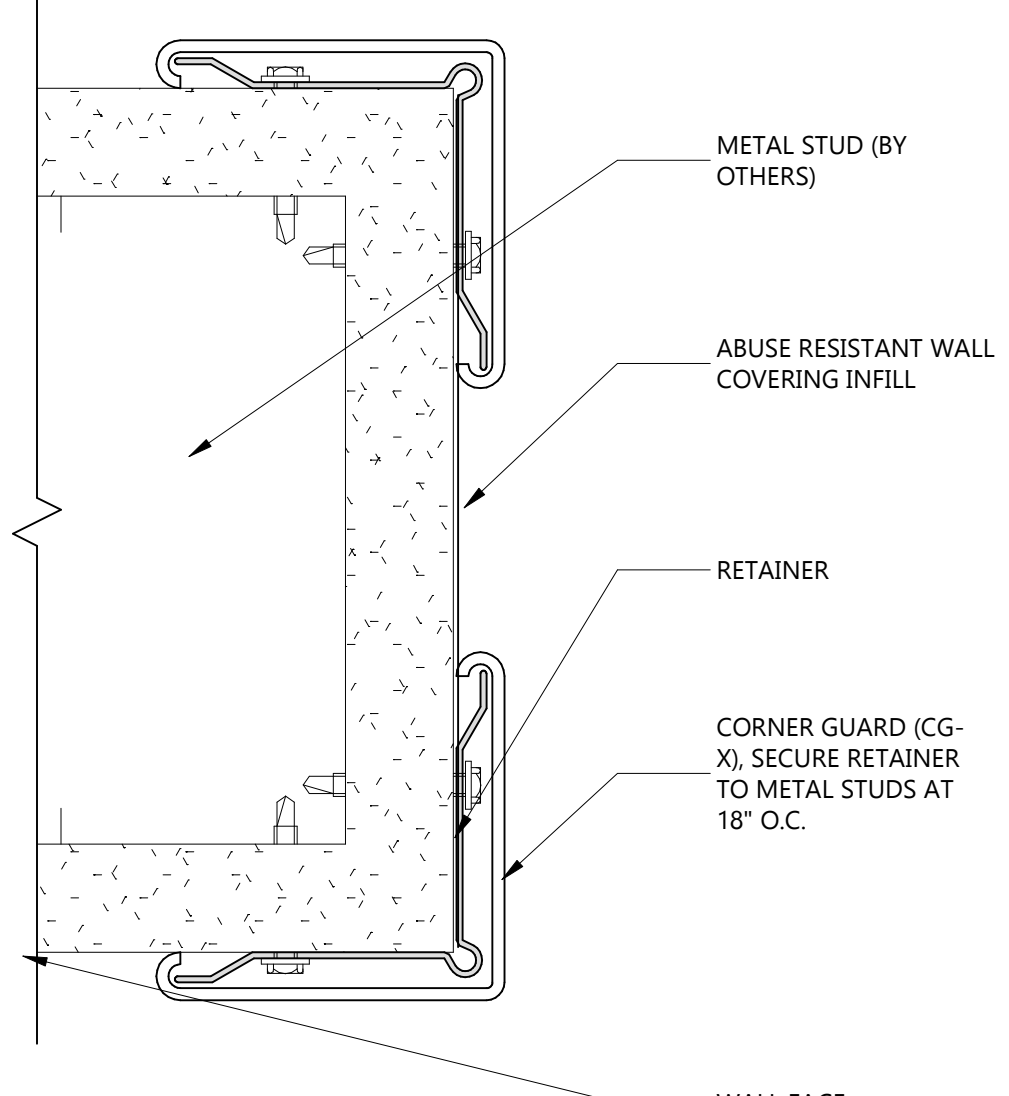
11
A921
FINISH DETAIL - HANDRAIL/WALL GUARD COMBO
NOT TO SCALE



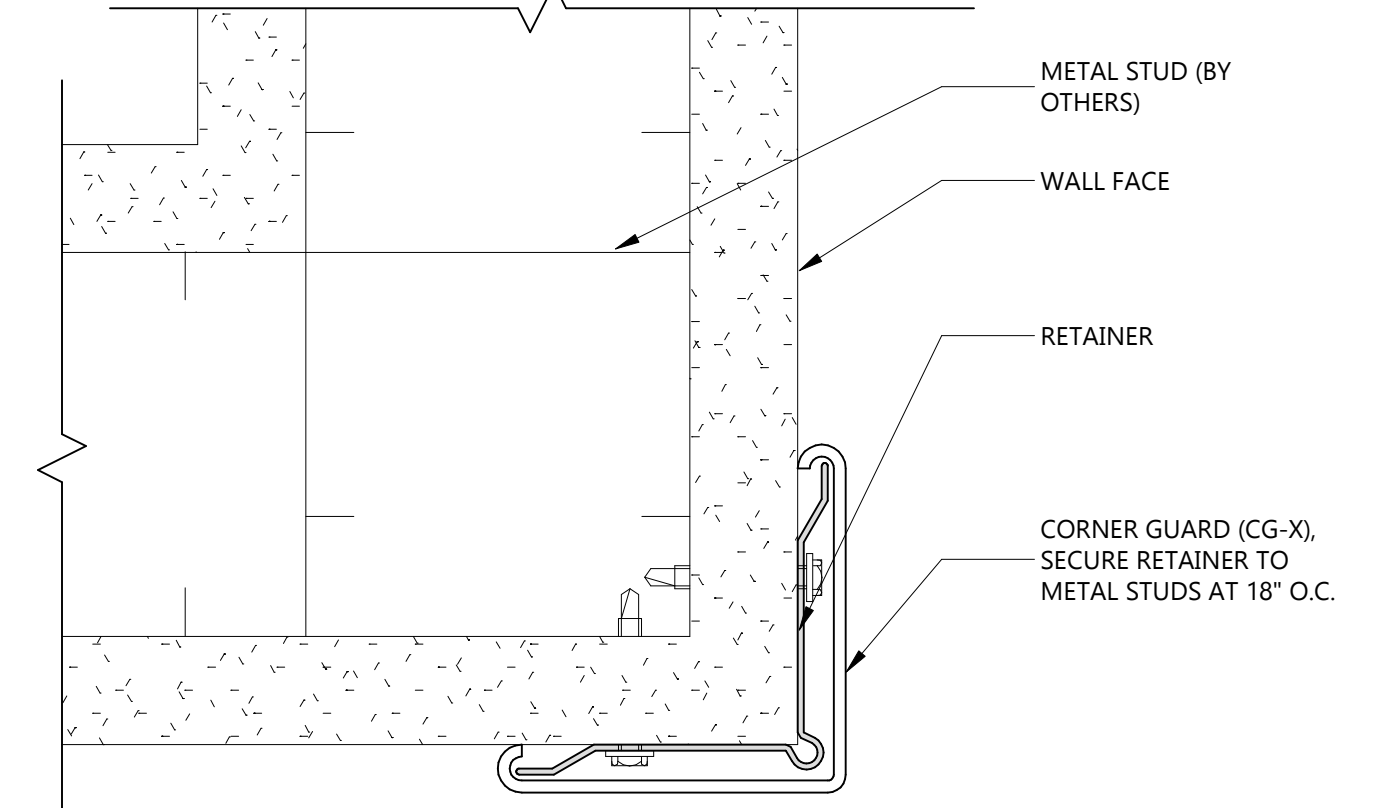
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A921
FINISH DETAIL - INTEGRAL COVE BASE
NOT TO SCALE



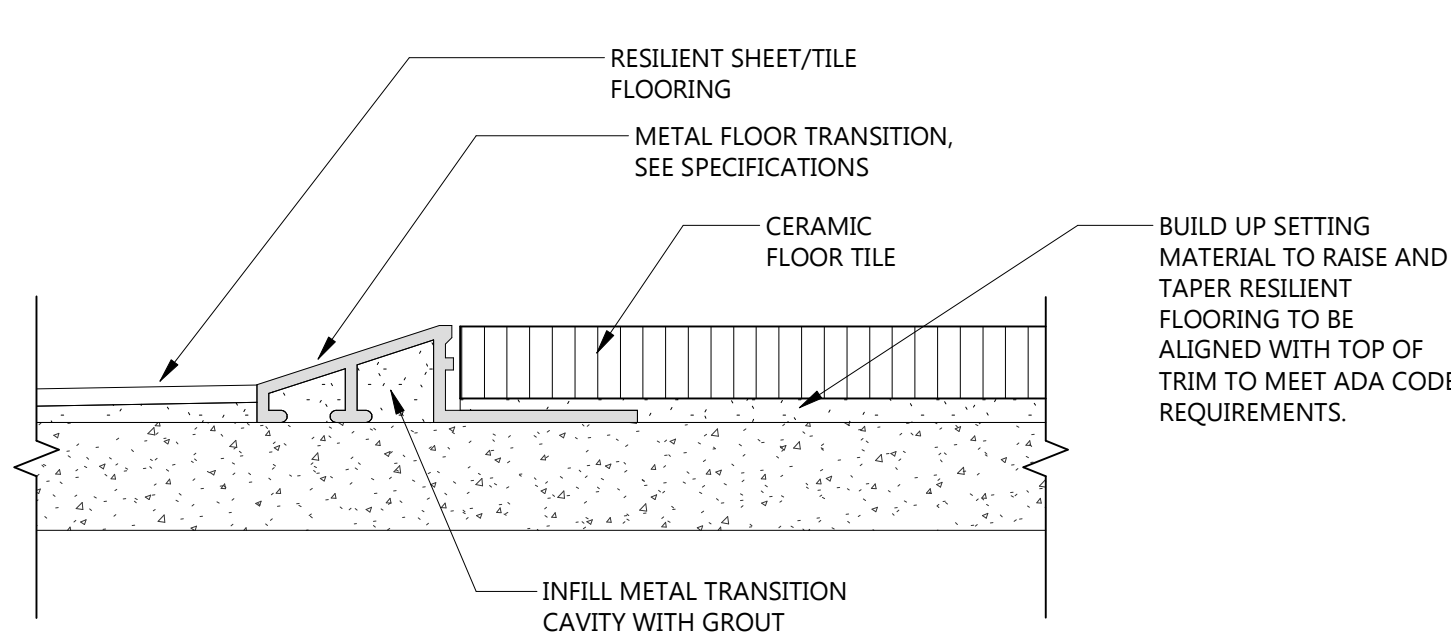
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A921
FINISH DETAIL - CERAMIC WALL TILE TO CERAMIC FLOOR TILE
NOT TO SCALE



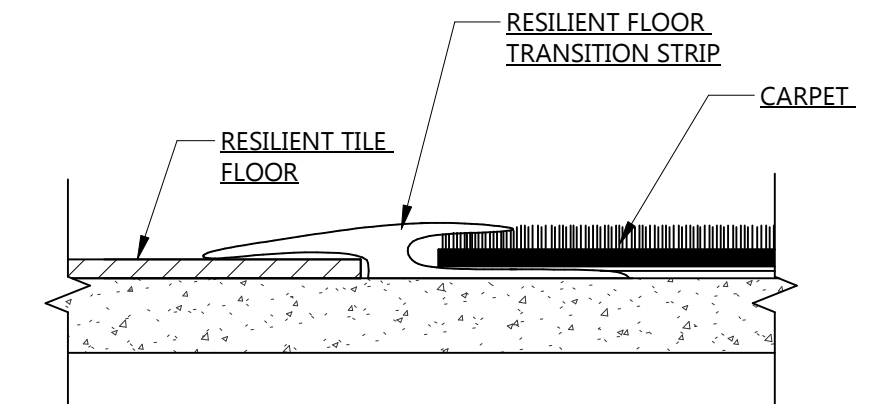
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A921
FINISH DETAIL - END CAP CORNER GUARD
NOT TO SCALE



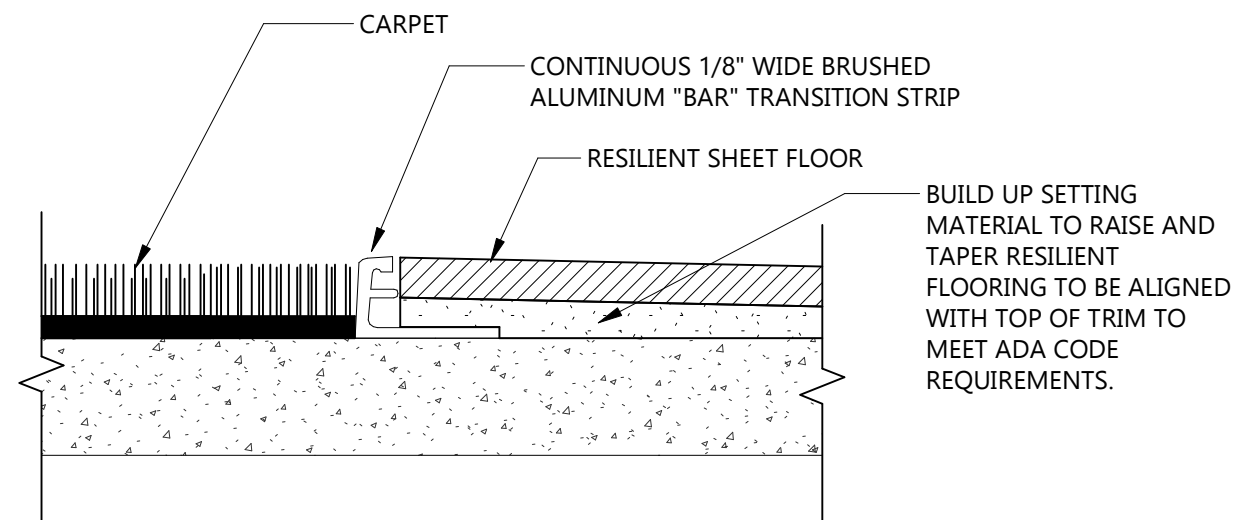
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A921
FINISH DETAIL - CORNER GUARD
NOT TO SCALE



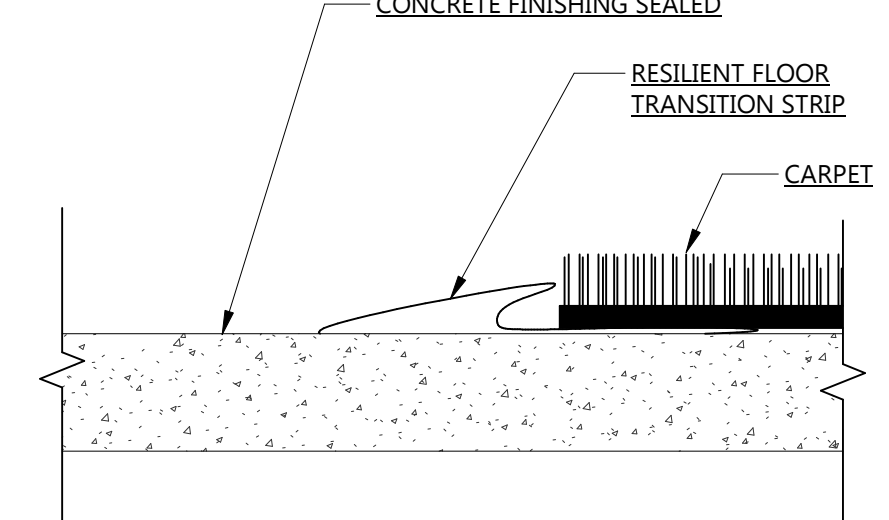
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A921
FINISH DETAIL - TILE TO RESILIENT FLOOR
NOT TO SCALE



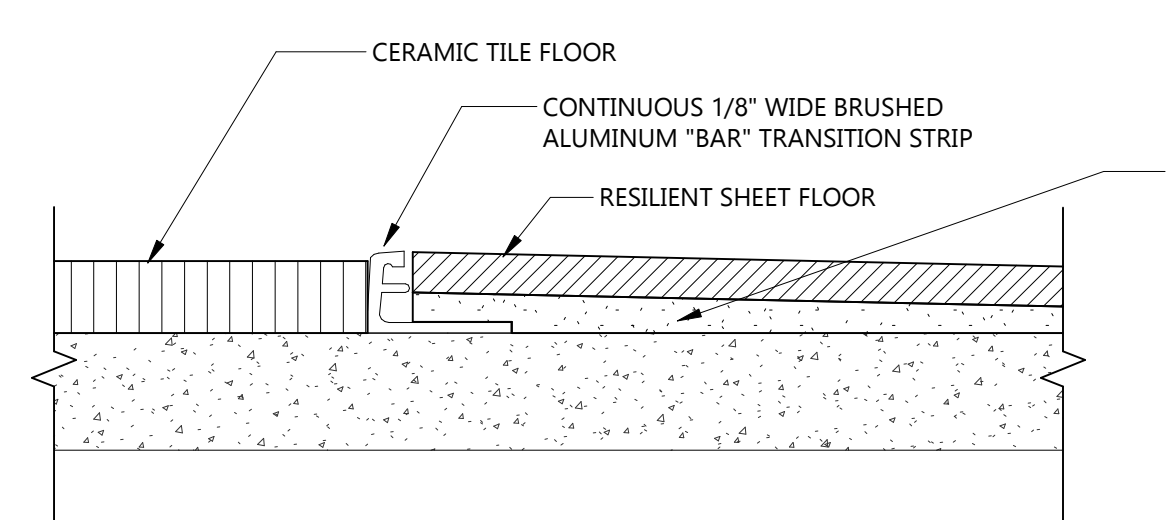
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A921
FINISH DETAIL - RESILIENT TILE/SHEET TO CARPET W/ RESILIENT TRANSITION
NOT TO SCALE



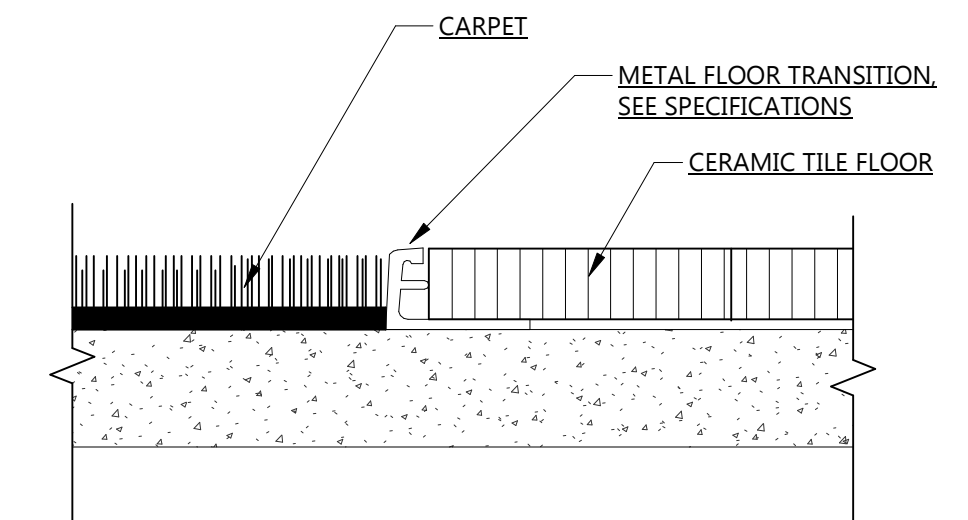
4
A921
FINISH DETAIL - RESILIENT TILE/SHEET TO CARPET
NOT TO SCALE



3
A921
FINISH DETAIL - CONCRETE TO CARPET
NOT TO SCALE



2
A921
FINISH DETAIL - CERAMIC TILE TO RESILIENT TILE/SHEET
NOT TO SCALE



1
A921
FINISH DETAIL - CARPET TO CERAMIC TILE FLOOR
NOT TO SCALE