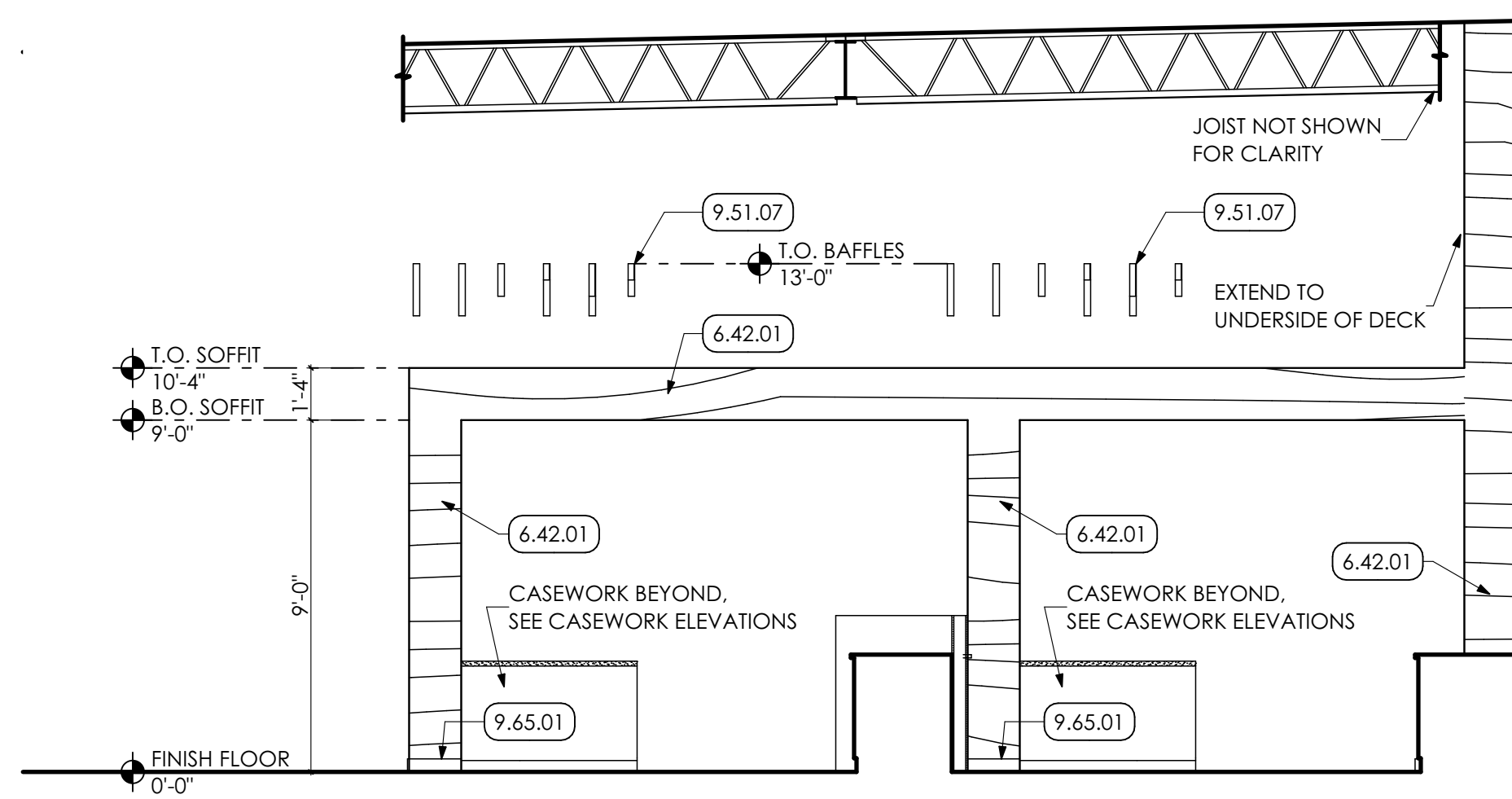
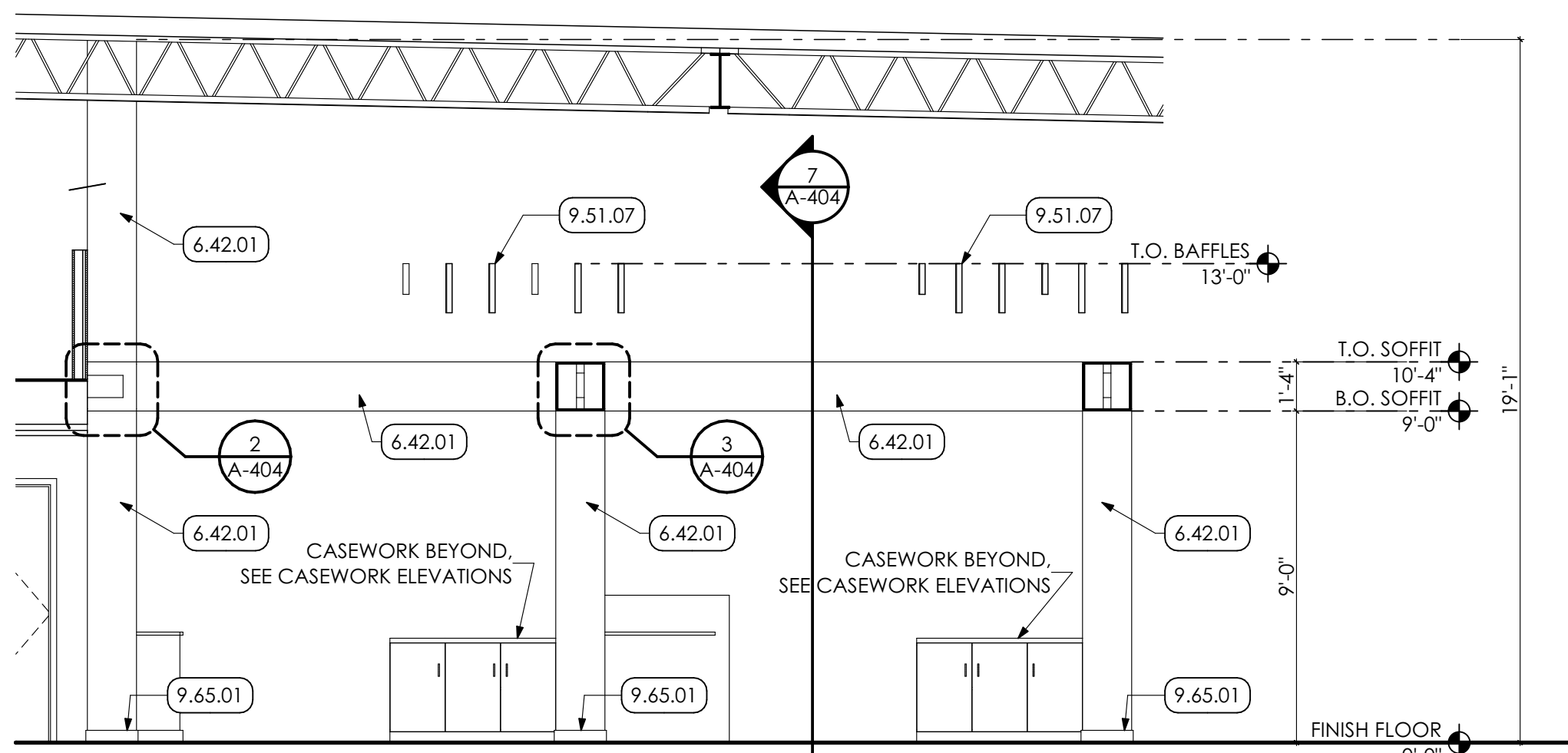


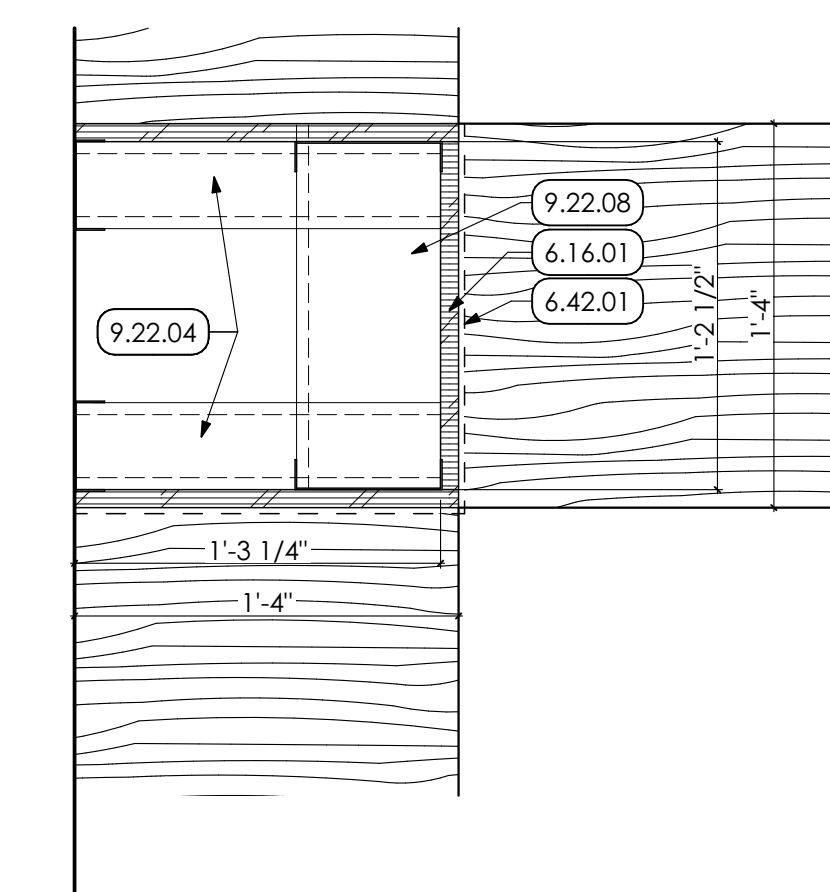
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SCALE: 1/4" = 1'-0"



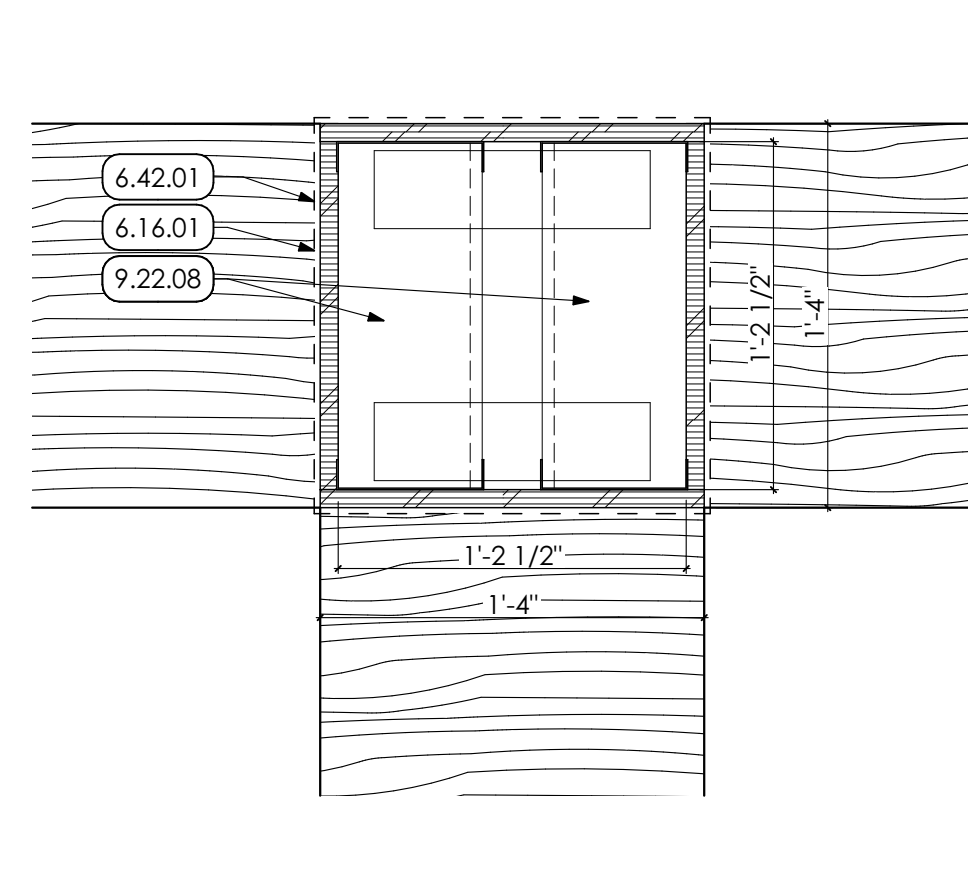
5 SIDE ELEVATION
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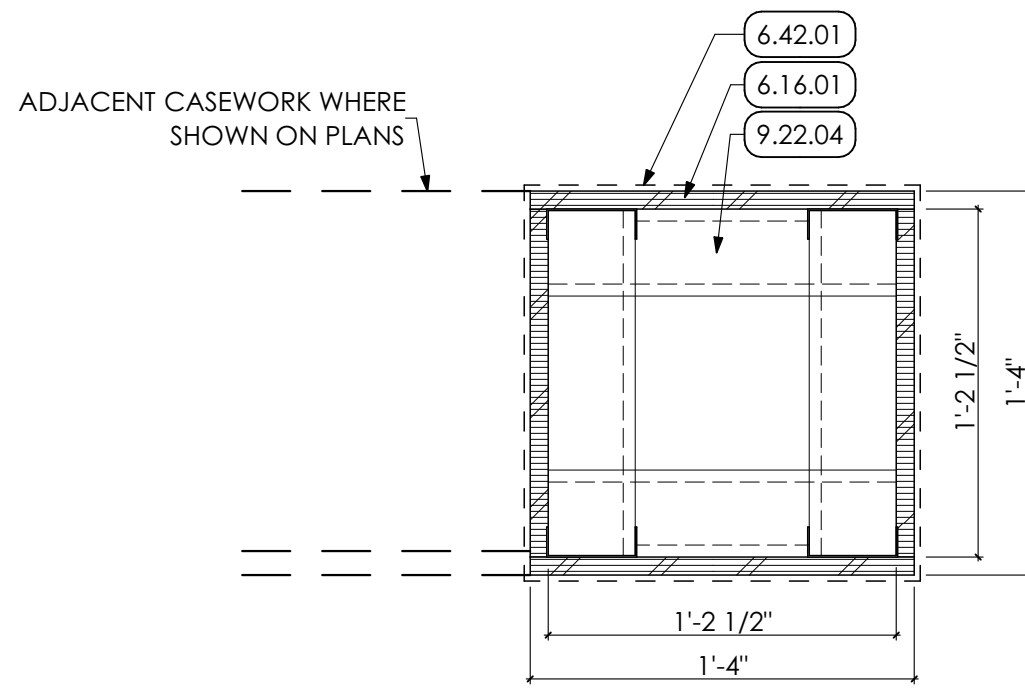
8 SECTION
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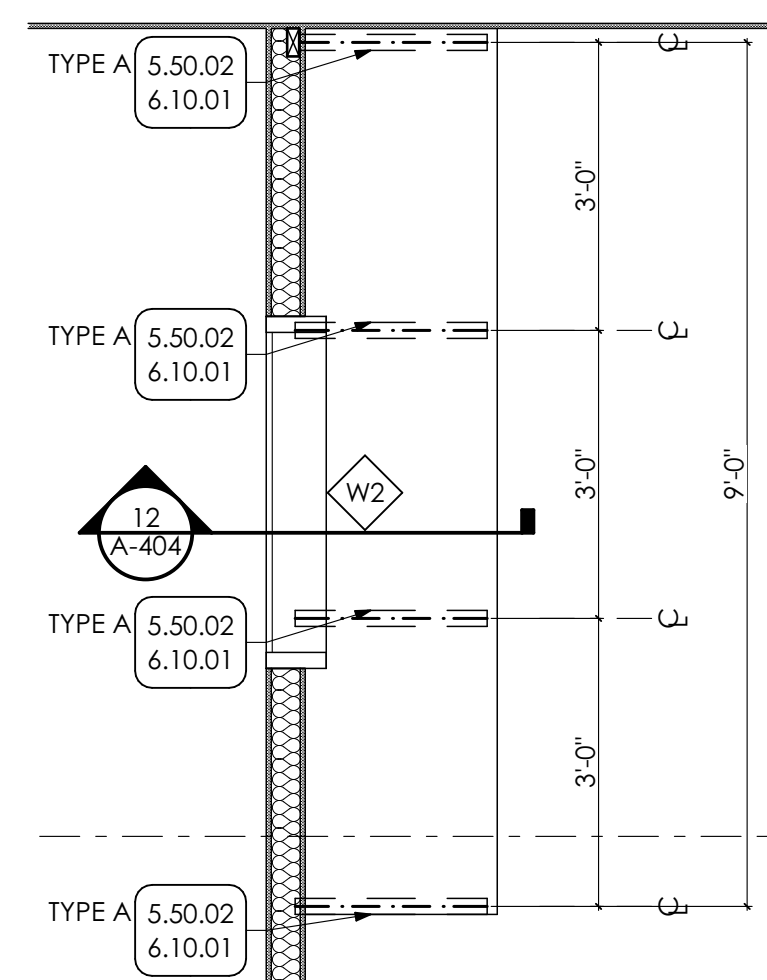
2 SOFFIT DETAIL
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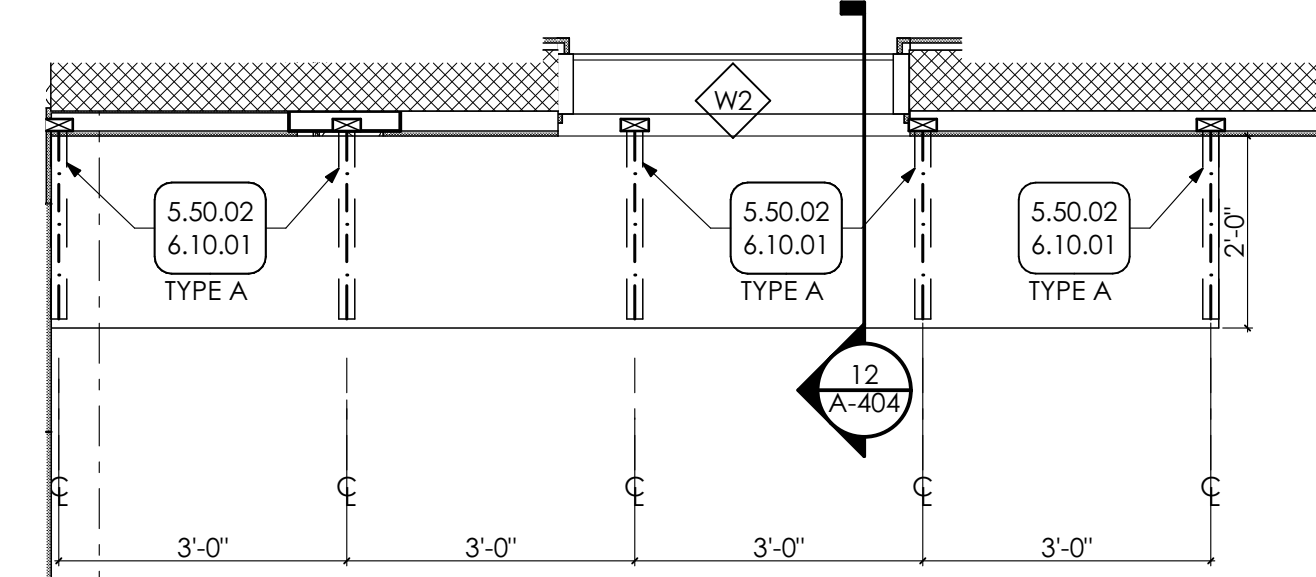
3 SOFFIT DETAIL
SCALE: 1 1/2" = 1'-0"



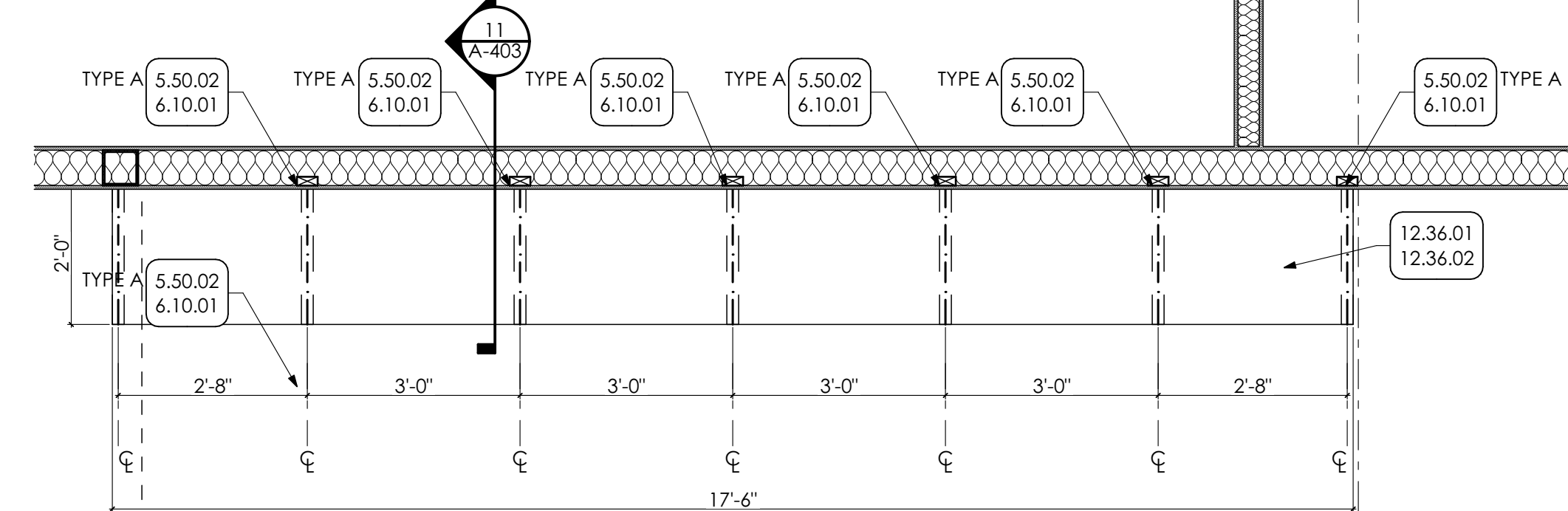
6 PILASTER PLAN DETAIL
SCALE: 1 1/2" = 1'-0"



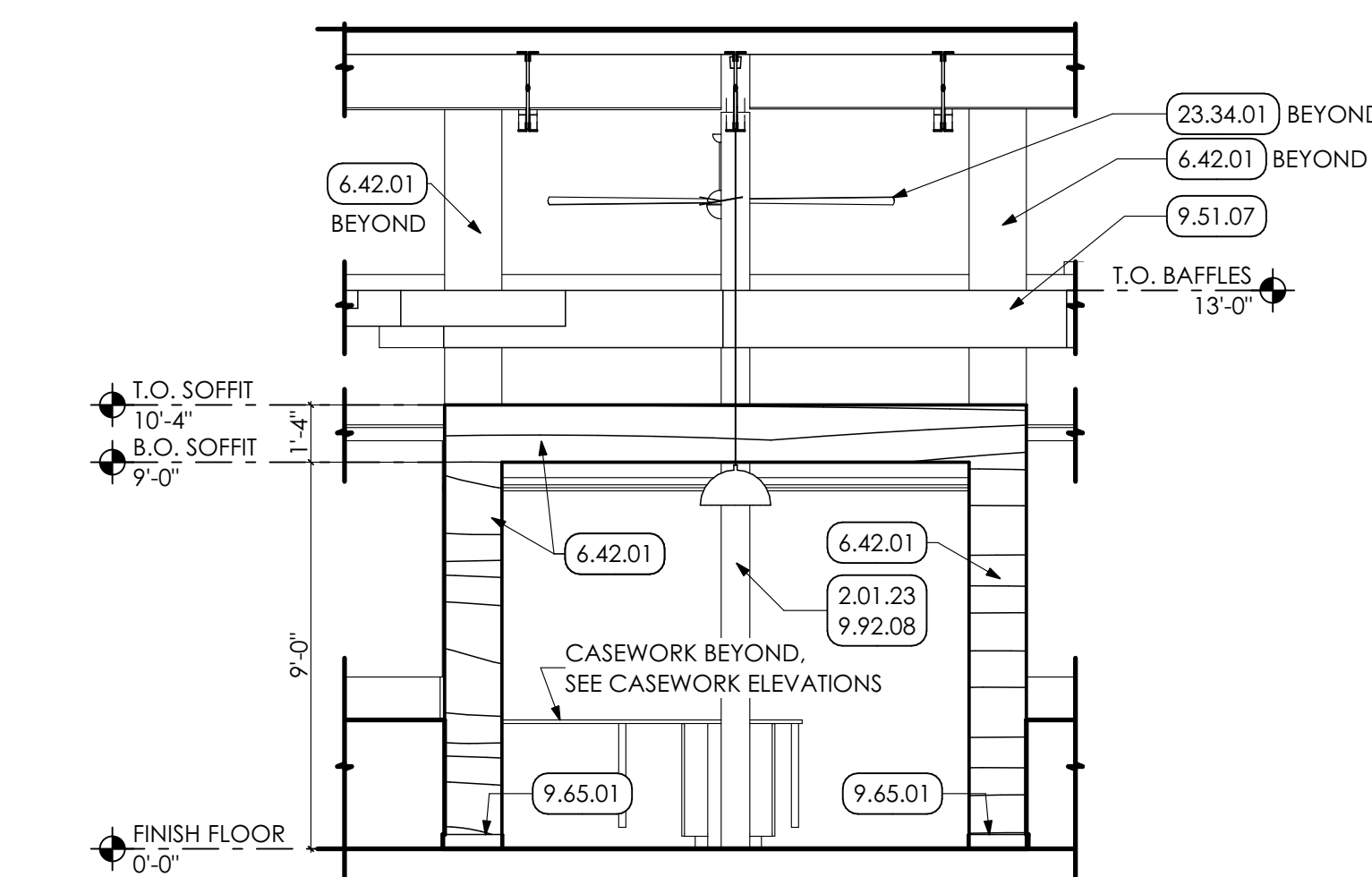
9 ENLARGED PLAN
SCALE: 1/2" = 1'-0"



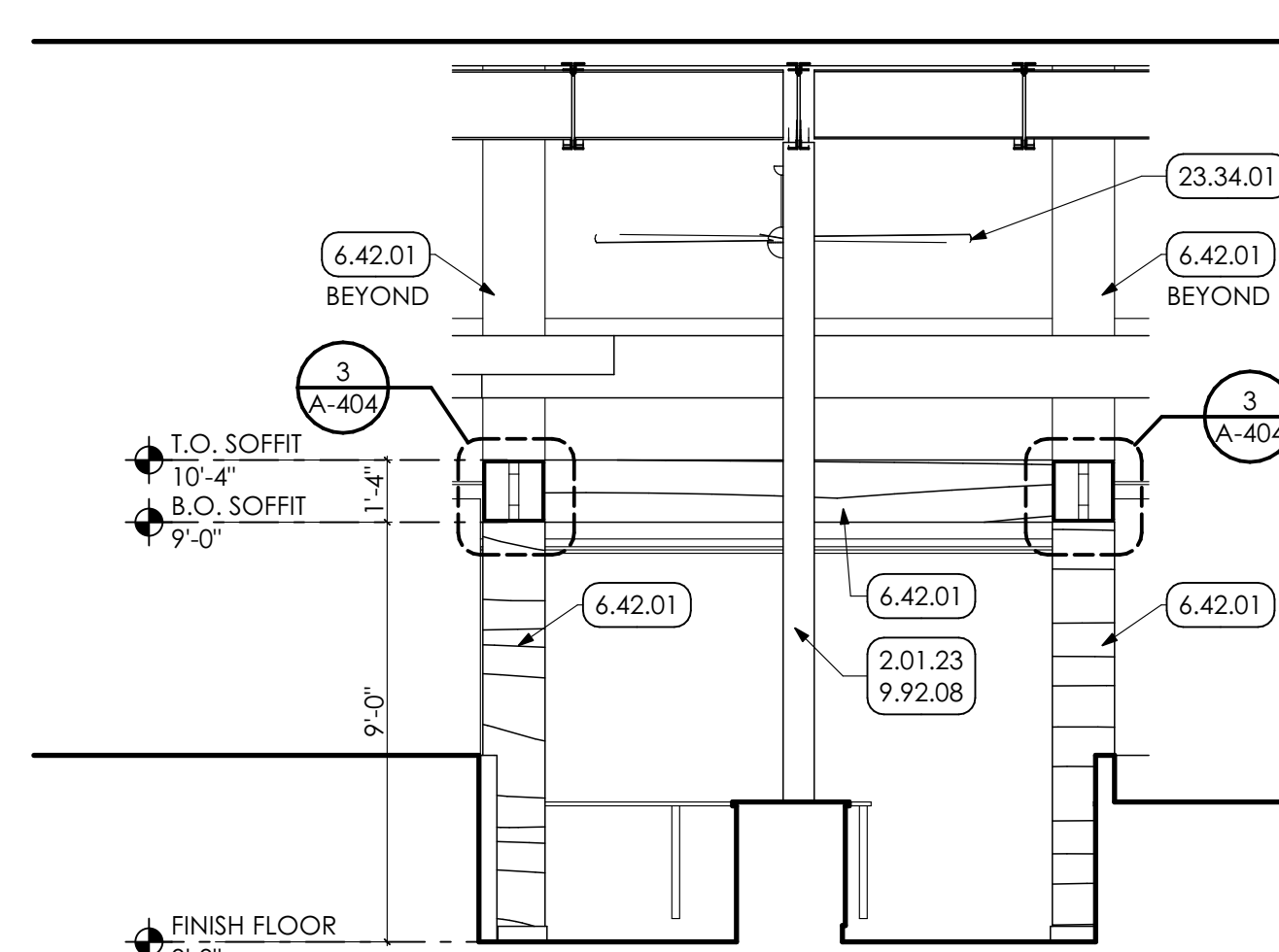
10 ENLARGED PLAN
SCALE: 1/2" = 1'-0"



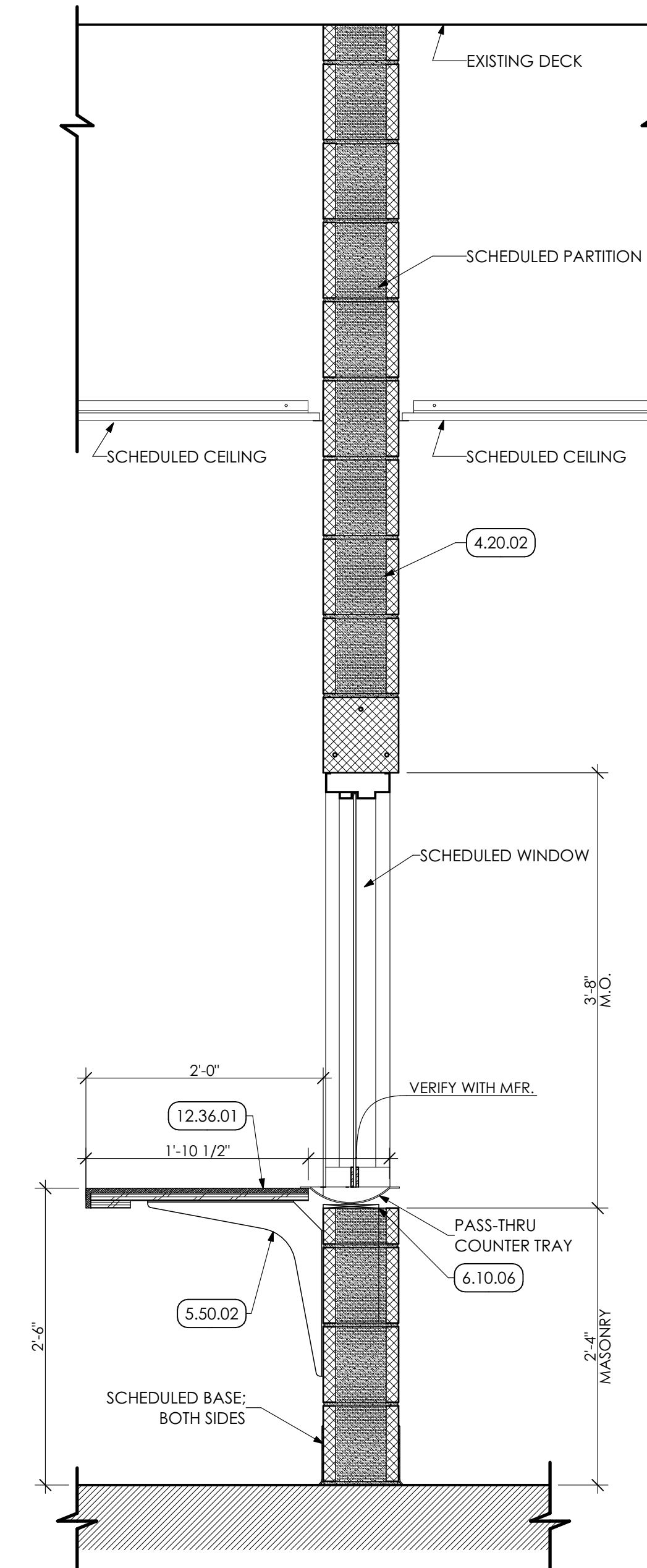
11 ENLARGED PLAN
SCALE: 1/2" = 1'-0"



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



7 SECTION THRU SOFFIT
SCALE: 1/4" = 1'-0"



12 SECTION
SCALE: 1" = 1'-0"

- KEY NOTES**
- 02 DEMOLITION**
 - 2.01 EXISTING CONDITIONS
 - 2.01.23 EXISTING COLUMN TO REMAIN.
 - 04 MASONRY**
 - 4.22 CMU MASONRY | SPEC 042000
 - 4.20.02 MASONRY UNTEL FOR WIDTH OF OPENING. COORDINATE WITH STRUCTURAL DRAWINGS.
 - 05 METALS**
 - 5.50 METAL FABRICATIONS | SPEC 055000 | SPEC 055213
 - 5.50.02 UNDERCOUNTER METAL SUPPORT BRACKET. PROVIDE WOOD BLOCKING IN WALL AS REQUIRED.
 - 06 WOODS, PLASTICS AND COMPOSITES**
 - 6.10 ROUGH CARPENTRY | SPEC 061000
 - 6.10.01 2X WOOD BLOCKING
 - 6.10.06 WOOD BLOCKING, AS REQUIRED.
 - 6.16 SHEATHING | SPEC 061400
 - 6.16.01 3/4" PLYWOOD SHEATHING
 - 6.42 WOOD PANELING | SPEC 064219
 - 6.42.01 PLASTIC LAMINATE FACED WOOD PANELING.
 - 09 FINISHES**
 - 9.22 NON-STRUCTURAL METAL FRAMING | SPEC 092214
 - 9.22.04 3 5/8" METAL STUD FRAMING AT 16" o.c.
 - 9.22.05 3 5/8" METAL STUD SOFFIT FRAMING AT 16" o.c.
 - 9.22.08 6" METAL STUDS AT 16" o.c.
 - 9.51 ACOUSTIC CEILINGS | SPEC 095100
 - 9.51.07 SUSPENDED ACOUSTIC LINEAR CEILING.
 - 9.65 RESILIENT BASE | SPEC 096513
 - 9.65.01 4" HIGH RUBBER COVE BASE CONTINUOUS FOR PERIMETER OF ROOM OR CORRIDOR.
 - 9.92 INTERIOR PAINTING | SPEC 099123
 - 9.92.08 PREP AND PAINT (PRIMER AND TWO (2) COATS) ENTIRE STRUCTURE, INCLUDING ALL STEEL JOISTS / BEAMS, EXPOSED ANCHORS, EXPOSED COLUMNS, AND ACCESSORIES WITH DRYFALL PAINT, BY GC.
 - 12 FURNISHINGS**
 - 12.36 QUARTZ AGGLOMERATE COUNTERTOPS | SPEC 123661.19
 - 12.36.01 2 CM QUARTZ COUNTERTOP ON 3/4" PLYWOOD BACKER.
 - 12.36.02 2CM QUARTZ BACKSPLASH FOR LENGTH OF COUNTERTOP AND ADJACENT SIDEWALLS. 4" TYPICAL HEIGHT UNLESS NOTED OTHERWISE.
 - 23 HVAC | BY H.C.**
 - 23 WORK DESCRIBED IN THESE KEYNOTES IS THE RESPONSIBILITY OF THE H.C. UNLESS NOTED OTHERWISE. COORDINATE WITH MECHANICAL DRAWING.
 - 23.34 HVAC FANS**
 - 23.34.01 DECK MOUNTED CEILING FAN.

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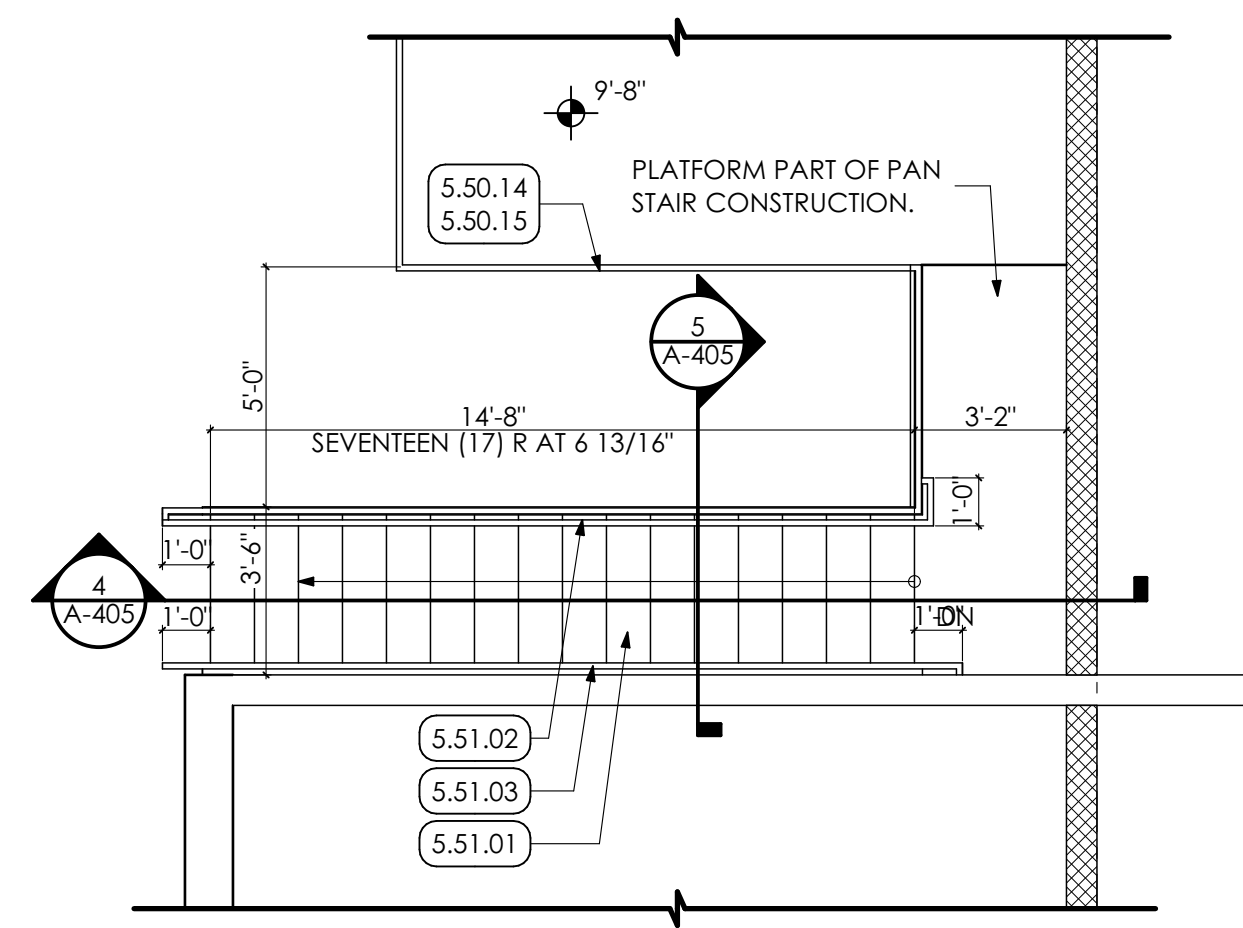
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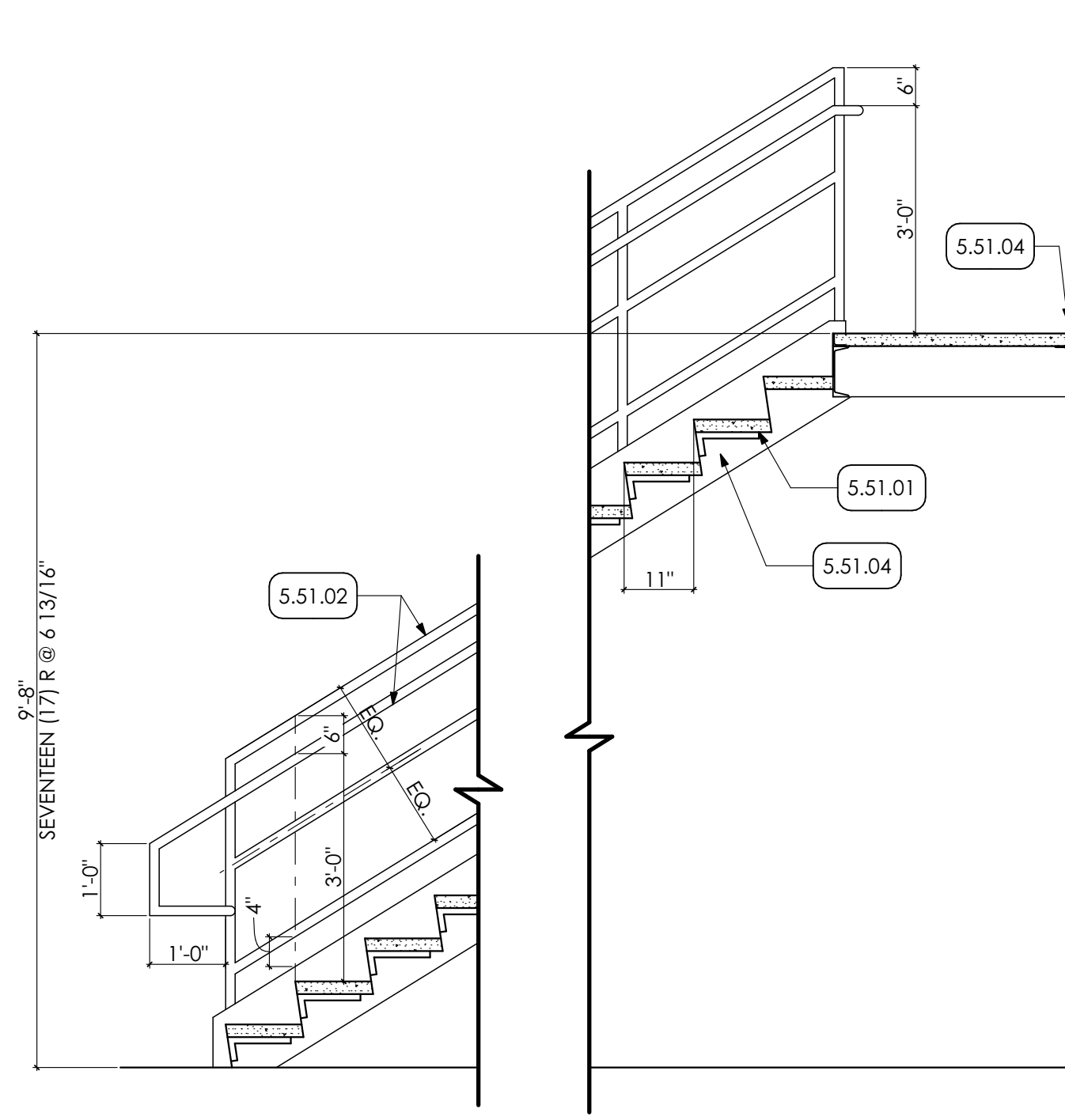
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ENLARGED PLANS AND DETAILS

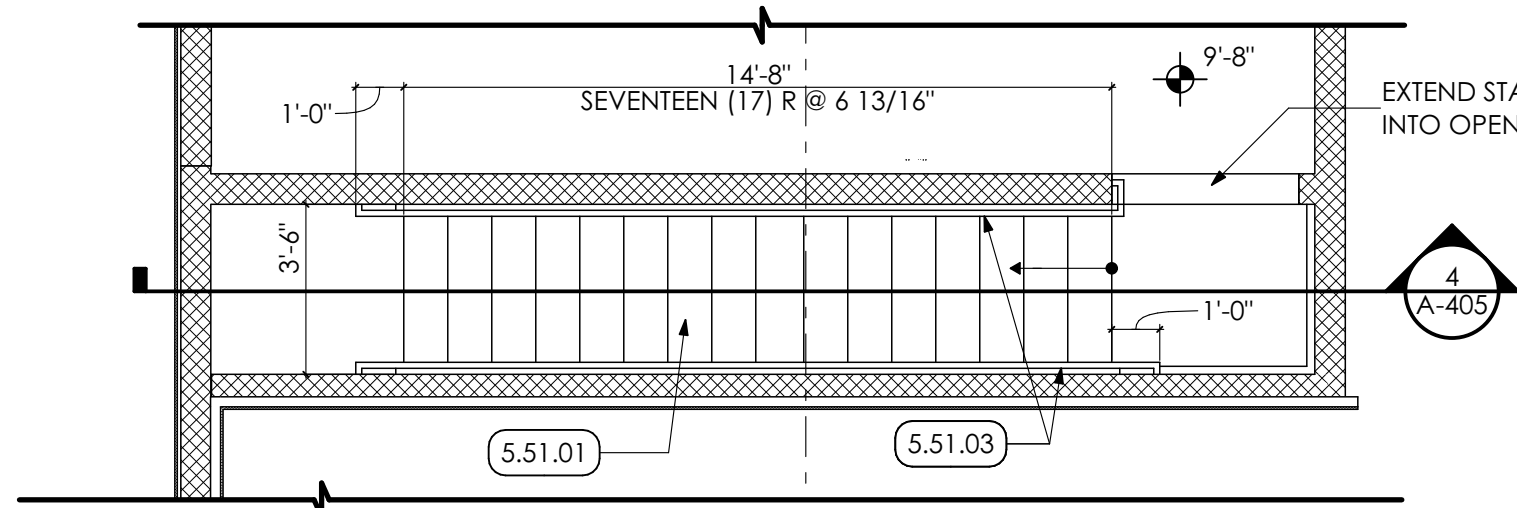
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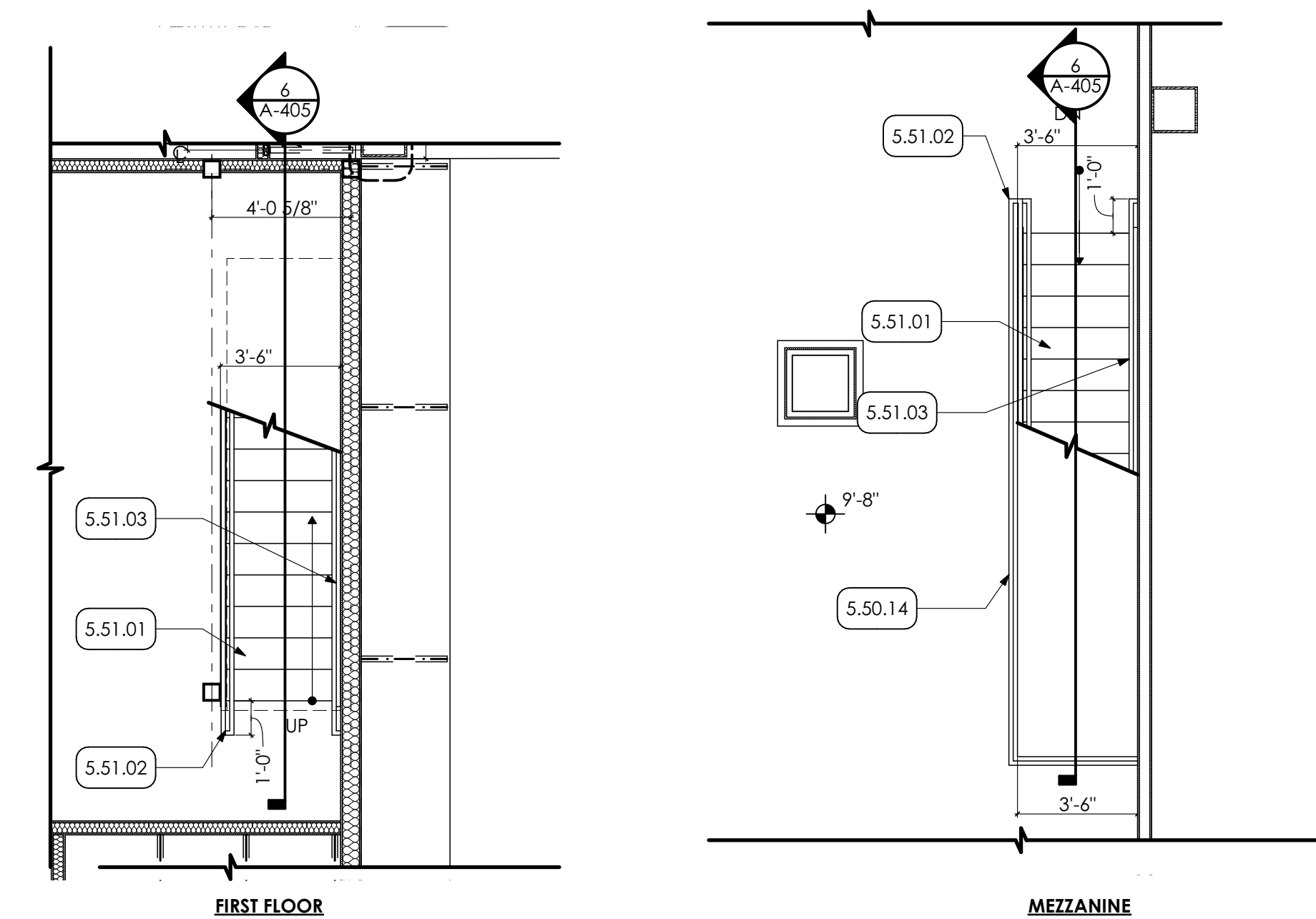
1 MEZZANINE B STAIR PLAN
SCALE: 1/4" = 1'-0"



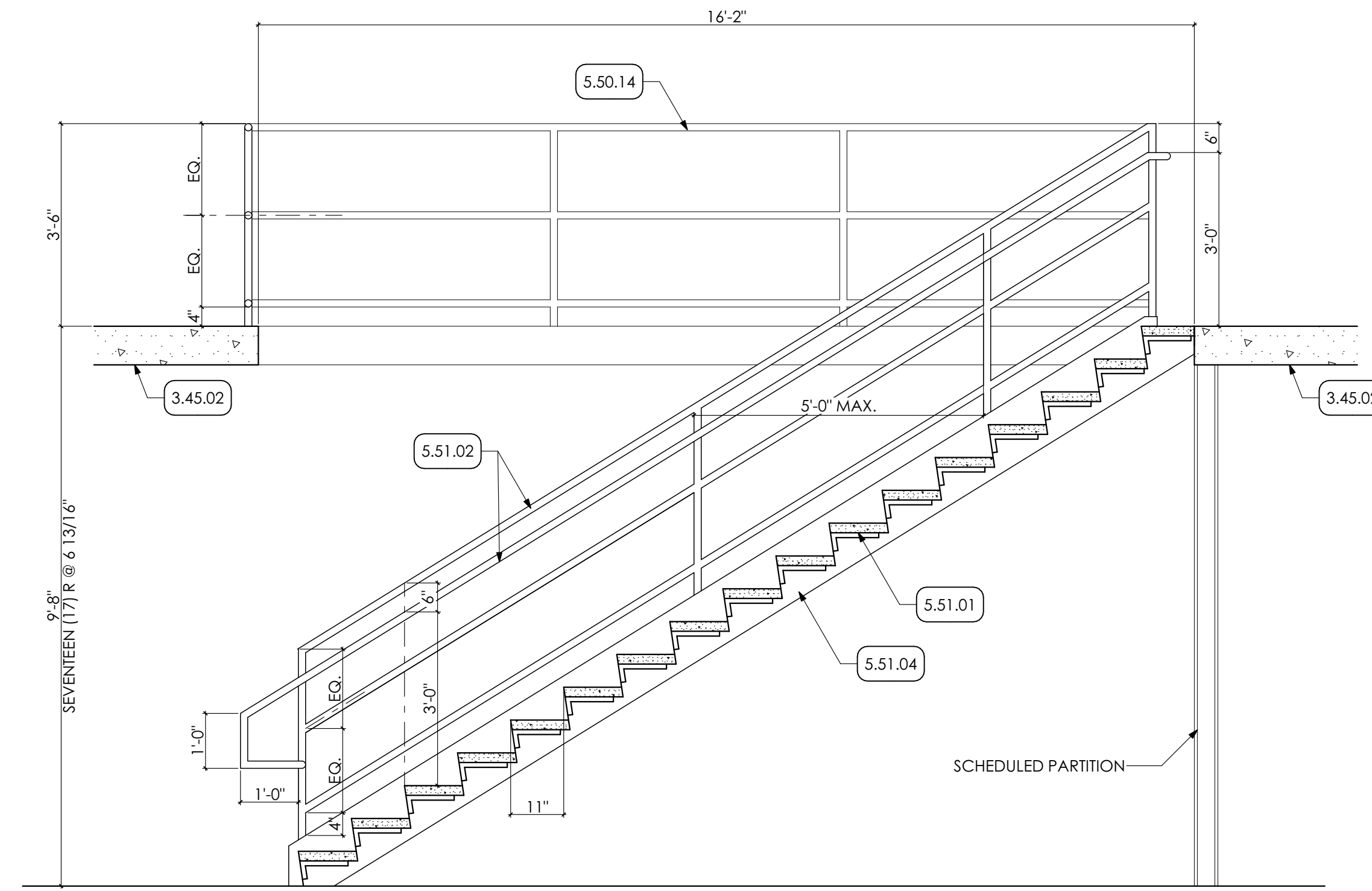
4 MEZZANINE B/C STAIR SECTION
SCALE: 1/2" = 1'-0"



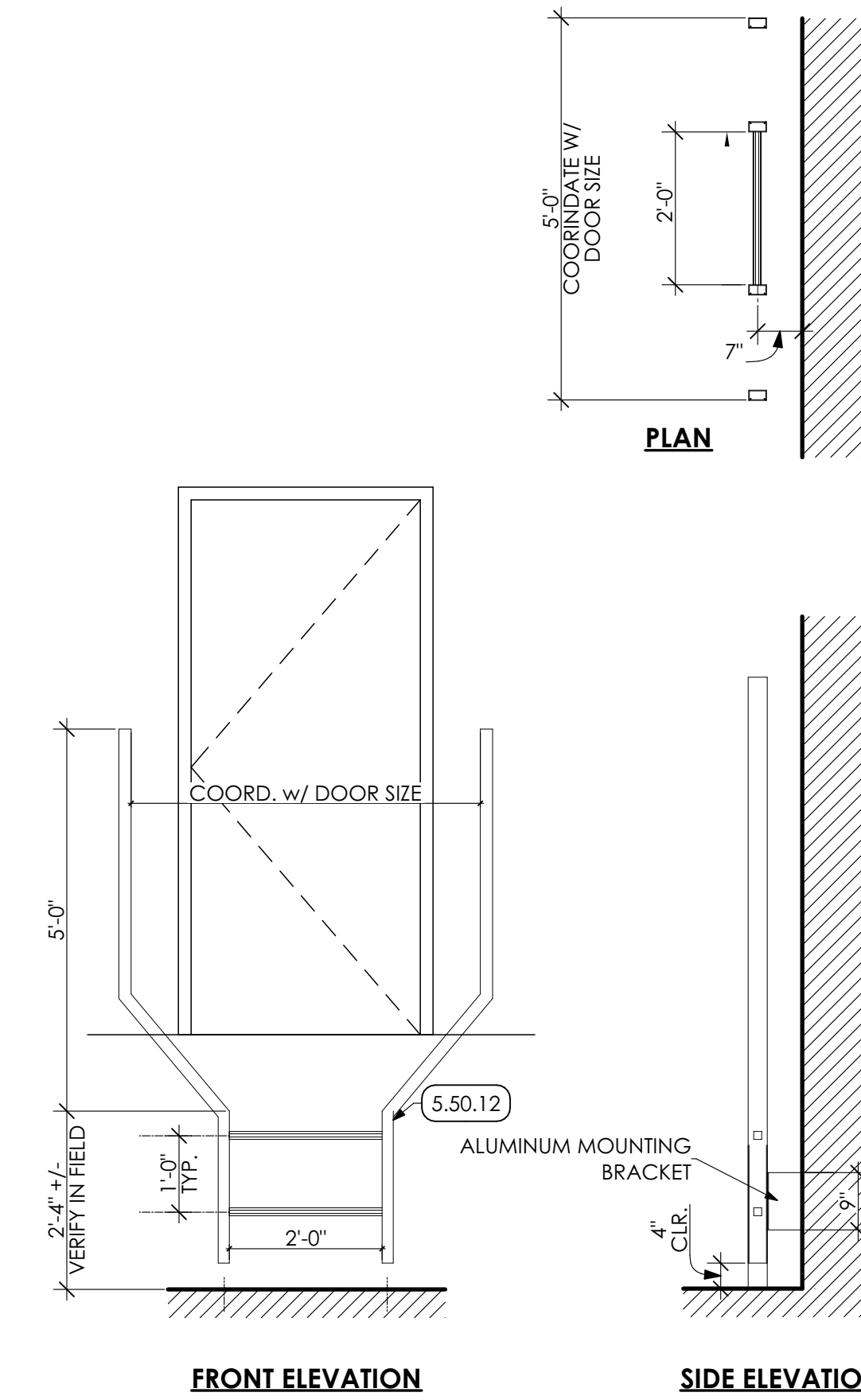
2 MEZZANINE C STAIR PLAN
SCALE: 1/4" = 1'-0"



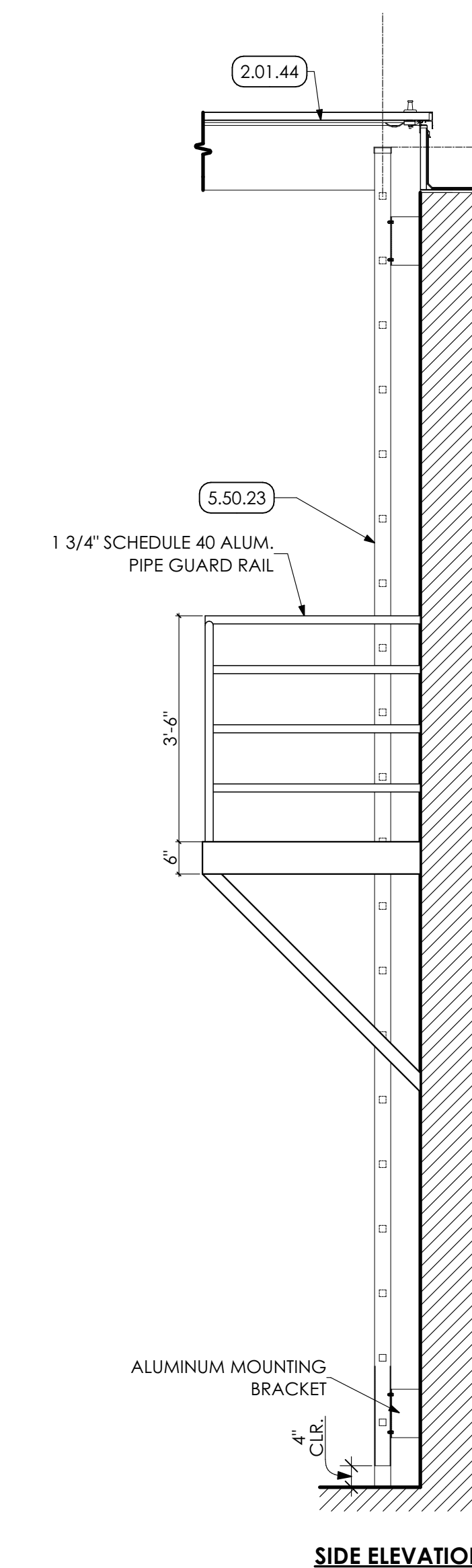
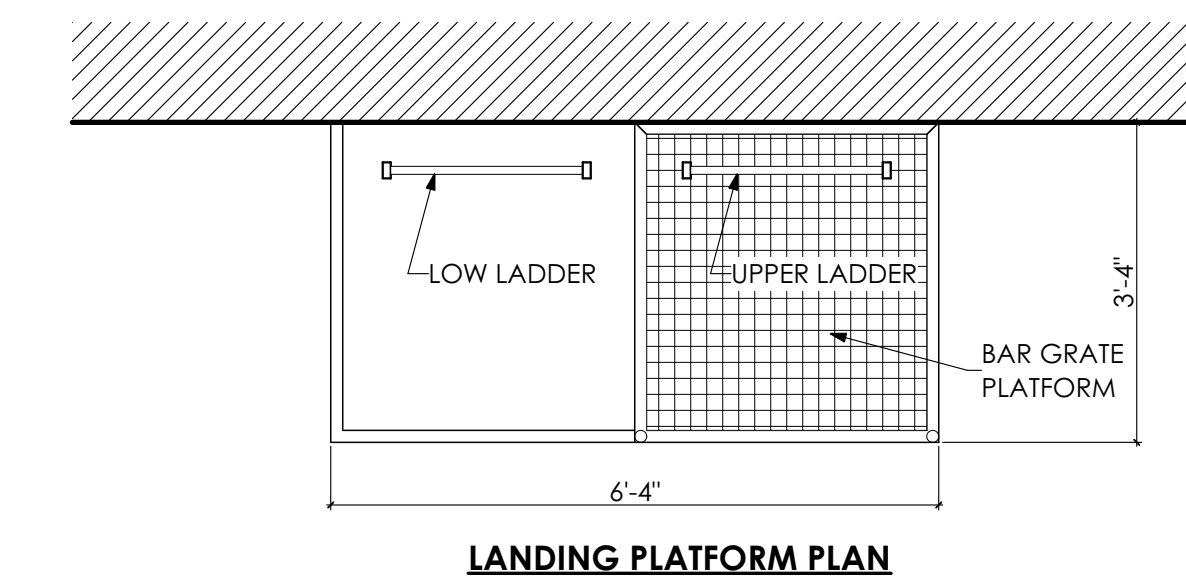
3 MEZZANINE D STAIR PLAN
SCALE: 1/4" = 1'-0"



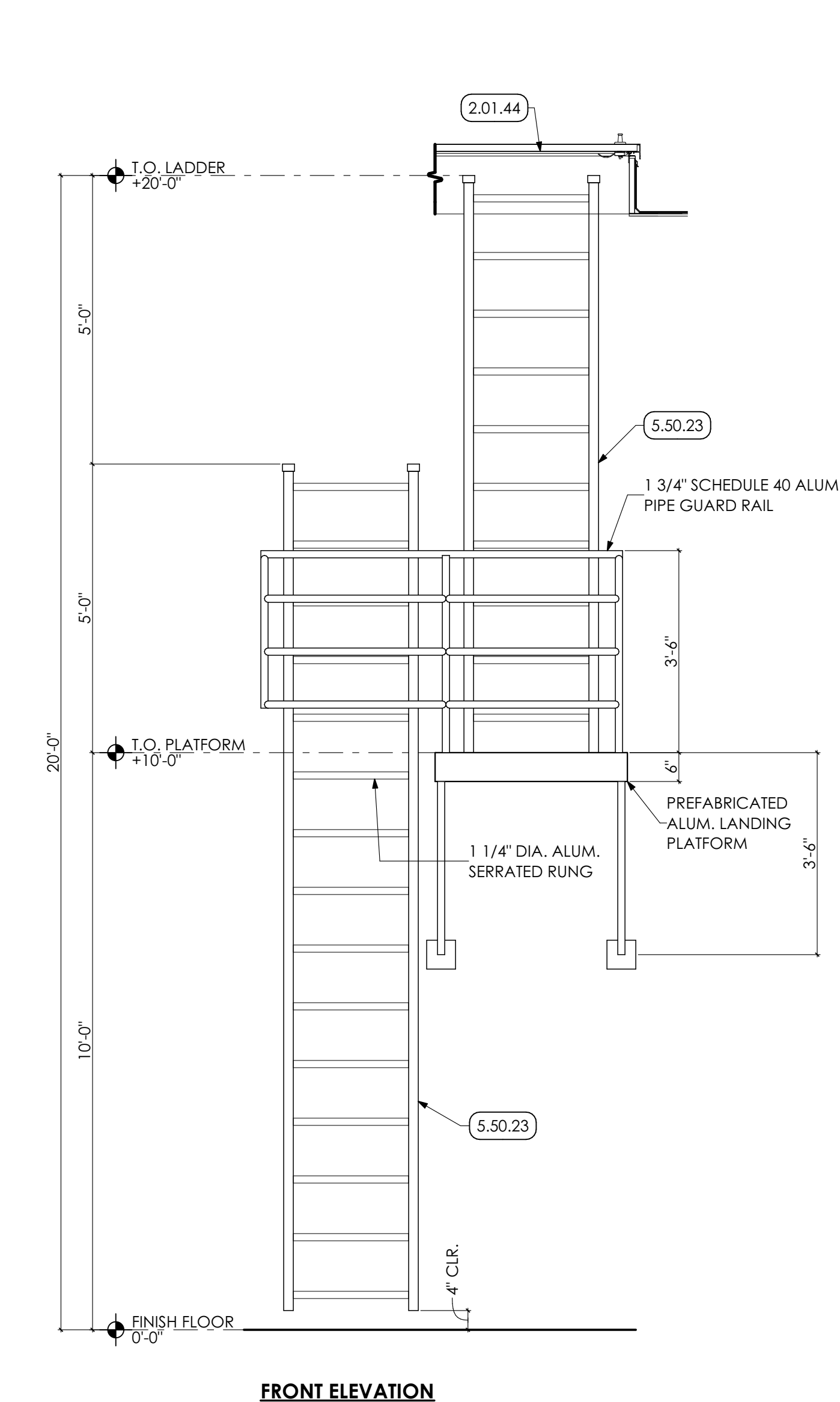
6 MEZZANINE D STAIR SECTION
SCALE: 1/2" = 1'-0"



7 LADDER DETAIL
SCALE: 1/2" = 1'-0"



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



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

KEY NOTES

- 02 DEMOLITION**
- 2.01 EXISTING CONDITIONS
- 2.01.44 EXISTING ROOF HATCH TO REMAIN.
- 03 CONCRETE**
- 3.45 PRECAST ARCHITECTURAL CONCRETE COORDINATE WITH STRUCTURAL DRAWINGS
- 3.45.02 8" PRECAST CONCRETE PLANK
- 05 METALS**
- 5.50 METAL FABRICATIONS | SPEC 055000 | SPEC 055213
- 5.50.02 UNDERCOUNTER METAL SUPPORT BRACKET. PROVIDE WOOD BLOCKING IN WALL AS REQUIRED.
- 5.50.12 METAL LADDER
- 5.50.14 1 1/2" DIA. STEEL PIPE GUARDRAIL. 42" HIGH. PREP AND PAINTED.
- 5.50.15 1/4" x 4" H. STEEL KICK PLATE. PREP AND PAINTED.
- 5.50.23 WALL MOUNTED METAL LADDER WITH INTERMEDIATE LANDING PLATFORM.
- 5.51 METAL STAIRS | SPEC 055100
- 5.51.01 CONCRETE FILLED METAL PAN STAIRS.
- 5.51.02 1 1/2" DIA. METAL PIPE GUARDRAIL AT 42" HT. AND HANDRAIL AT 36" HT. PREP AND PAINT.
- 5.51.03 1 1/2" DIA. METAL PIPE HANDRAIL AT 36" HT. PREP AND PAINT.
- 5.51.04 12" STEEL CHANNEL STRINGER. PREP AND PAINT.
- 06 WOODS, PLASTICS AND COMPOSITES**
- 6.10 ROUGH CARPENTRY | SPEC 061000
- 6.10.01 2X WOOD BLOCKING
- 12 FURNISHINGS**
- 12.36 QUARTZ AGGLOMERATE COUNTERTOPS | SPEC 123661.19
- 12.36.01 2 CM QUARTZ COUNTERTOP ON 3/4" PLYWOOD BACKER.
- 12.36.02 2CM QUARTZ BACKPLASH FOR LENGTH OF COUNTERTOP AND ADJACENT SIDEWALLS. 4" TYPICAL HEIGHT UNLESS NOTED OTHERWISE.

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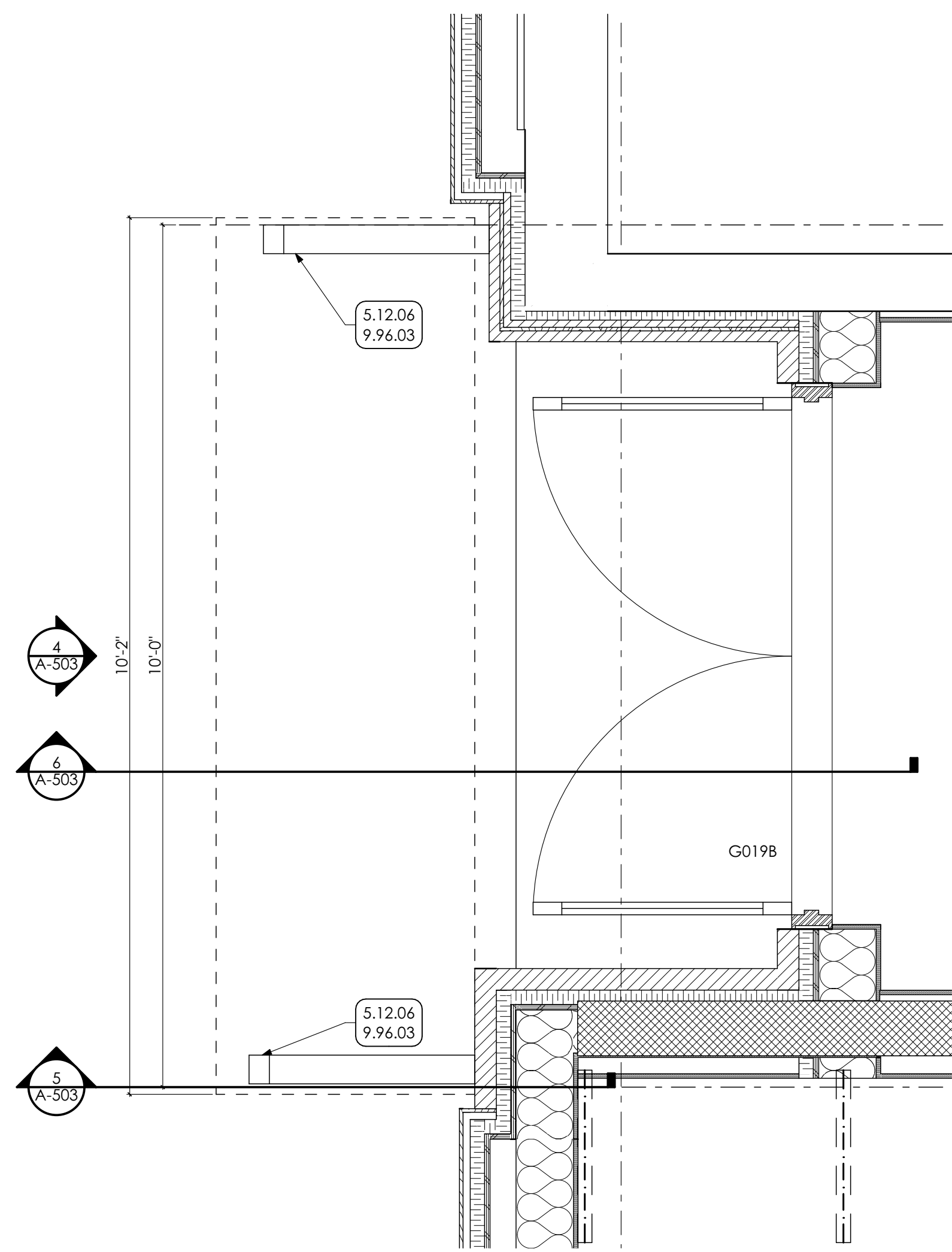
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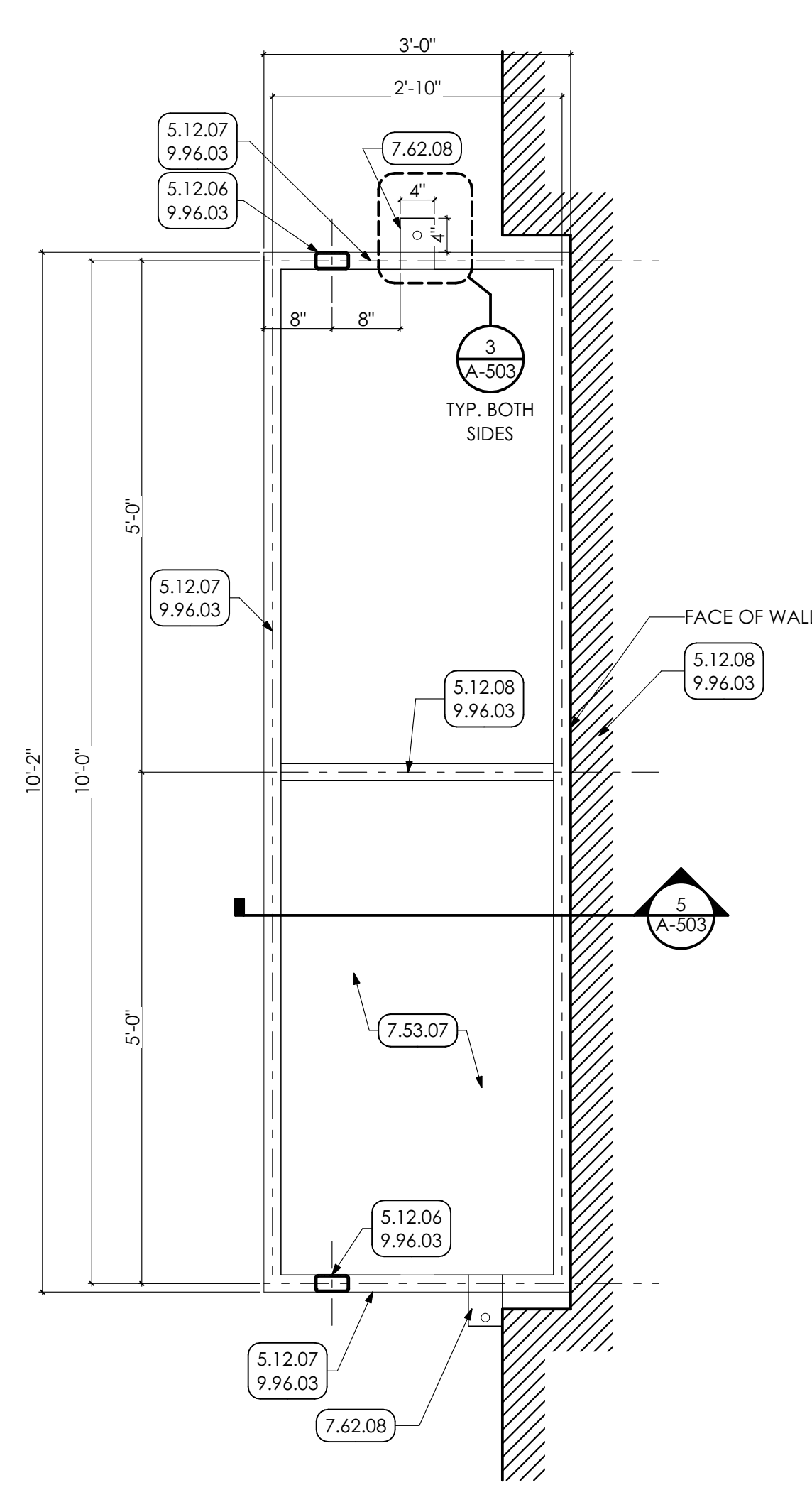
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SHEET TITLE:
MEZZANINE STAIR DETAILS

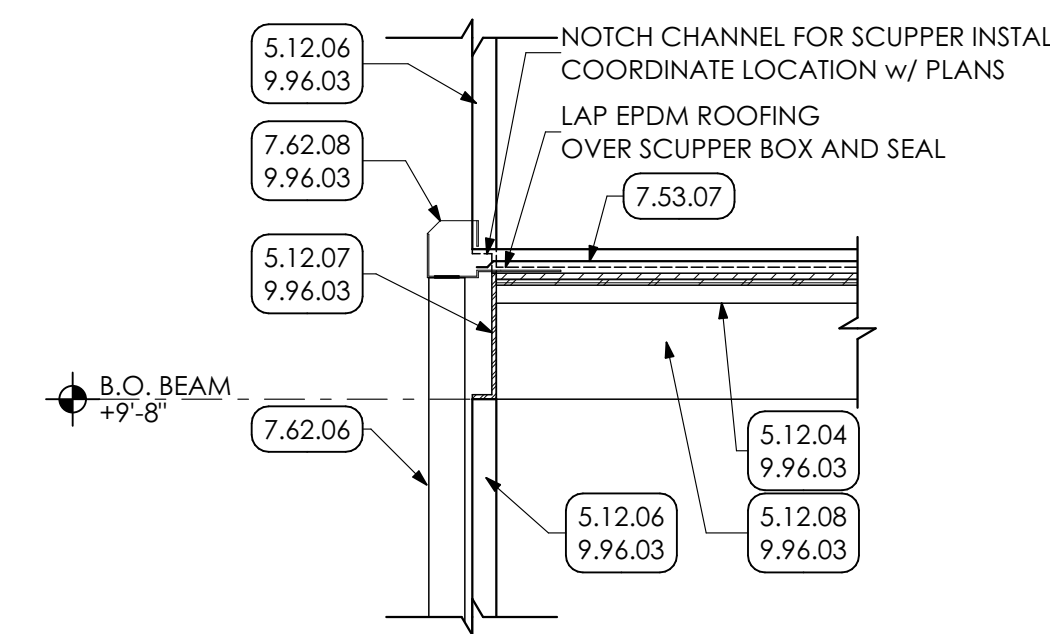
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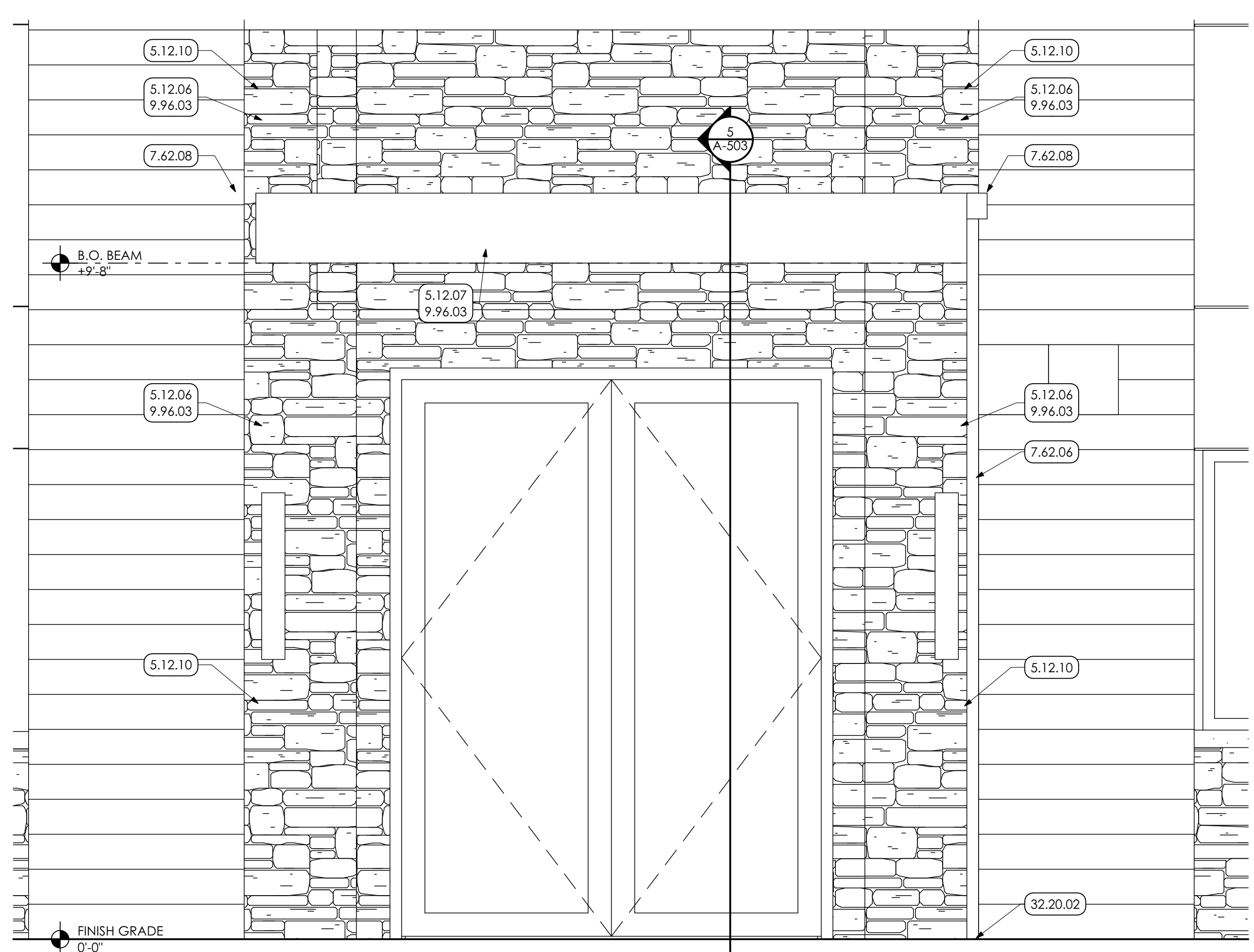
1 ENLARGED FLOOR PLAN
SCALE: 3/4" = 1'-0"



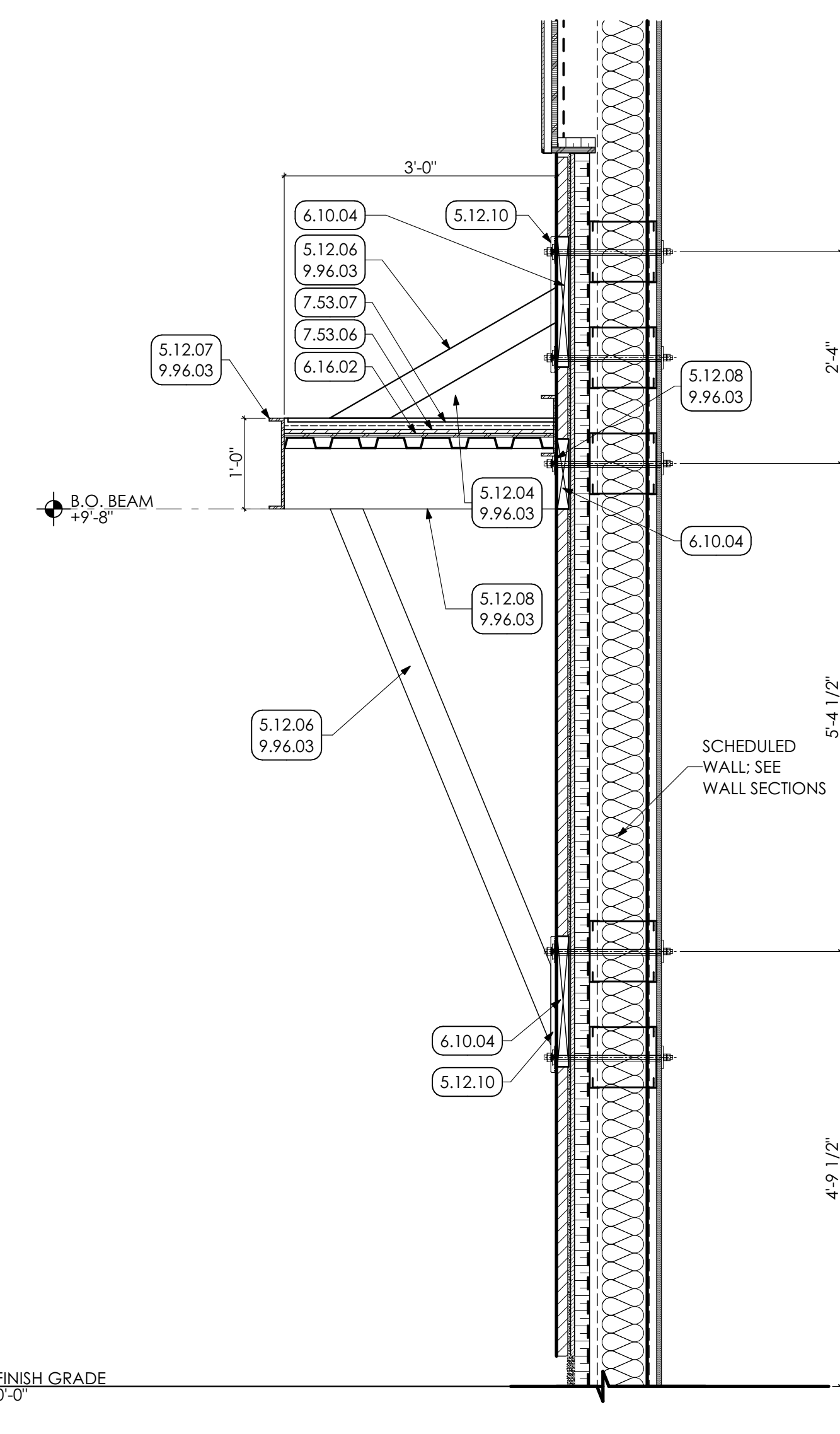
2 CANOPY ROOF PLAN
SCALE: 3/4" = 1'-0"



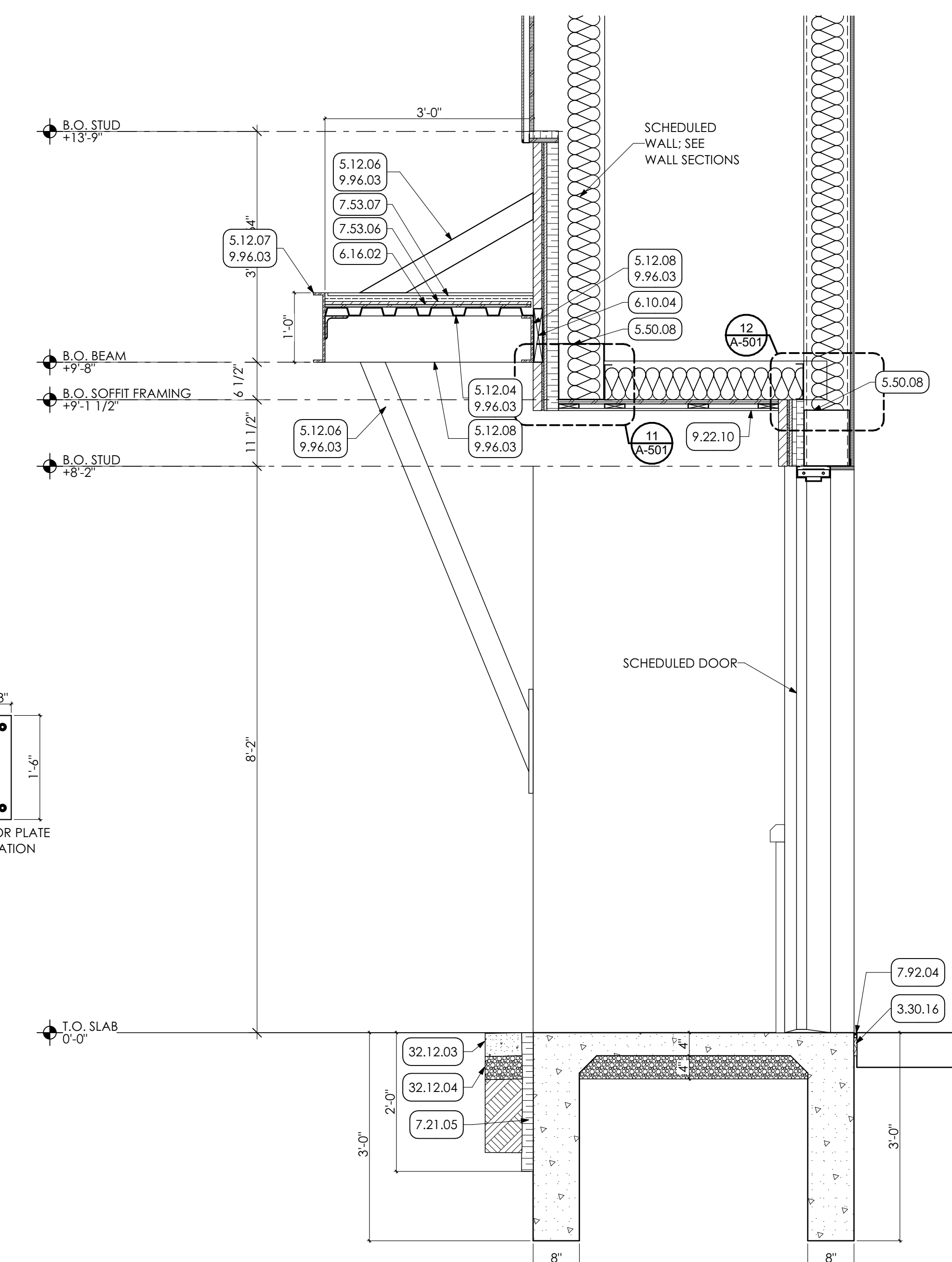
3 CANOPY SCUPPER DETAIL
SCALE: 3/4" = 1'-0"



4 CANOPY ELEVATION
SCALE: 3/4" = 1'-0"



5 CANOPY SECTION DETAIL
SCALE: 3/4" = 1'-0"



6 CANOPY DETAIL
SCALE: 3/4" = 1'-0"

- KEY NOTES**
- 03 CONCRETE**
3.30 CAST-IN-PLACE CONCRETE | SPEC 033000 | 032000
3.30.16 COMPRESSIBLE JOINT FILLER
 - 05 METALS**
5.12.04 STRUCTURAL STEEL FRAMING | SPEC 051200
1-1/2" STEEL DECK; COORDINATE W/ STRUCTURAL DRAWINGS.
5.12.06 2" x 4" TUBE STEEL COLUMN; COORDINATE W/ STRUCTURAL DRAWINGS.
5.12.07 12" C-C CHANNEL FRAMING; COORDINATE W/ STRUCTURAL DRAWINGS.
5.12.08 8" C-C CHANNEL FRAMING; COORDINATE W/ STRUCTURAL DRAWINGS.
5.12.10 STEEL PLATE; COORDINATE W/ STRUCTURAL DRAWINGS.
 - 5.50 METAL FABRICATIONS | SPEC 055000 | SPEC 055213**
5.50.08 METAL BOX HEADER COORDINATE WITH STRUCTURAL DRAWINGS.
 - 06 WOODS, PLASTICS AND COMPOSITES**
6.10 ROUGH CARPENTRY | SPEC 061000
6.10.04 2X PRESERVATIVE-TREATED WOOD BLOCKING
6.16 SHEATHING | SPEC 061600
6.16.02 1/2" PLYWOOD SHEATHING
 - 07 THERMAL AND MOISTURE PROTECTION**
7.21 THERMAL INSULATION | SPEC 072100
7.21.05 2" RIGID INSULATION
7.53 ELASTOMERIC ROOFING | SPEC 075323
7.53.06 1/2" COVER BOARD.
7.53.07 FULLY ADHERED 90 MIL EPDM ROOFING FOR ENTIRE CANOPY.
7.62 SHEET METAL FLASHING/TRIM | SPEC 076200
7.62.06 PREFINISHED 3"x4" DOWNSPOUT WITH MITERED ELBOWS FURNISH WITH METAL HANGERS FROM SAME MATERIAL AS DOWNSPOUT AND ANCHORS.
7.62.08 4"x4" ALUMINUM SCUPPER BOX W/ DRAINAGE HOLE MOUNTED TO CANOPY STRUCTURE.
7.92 JOINT SEALANTS | SPEC 079200
7.92.04 CONTINUOUS SEALANT WITH BACKER ROD
 - 09 FINISHES**
9.22 NON-STRUCTURAL METAL FRAMING | SPEC 092216
9.22.10 ALUMINUM SOFFIT
9.96 HIGH-PERFORMANCE COATING | SPEC 099600
9.96.03 PREP. PRIME. PAINT TWO (2) COATS ENTIRE CANOPY WITH HIGH-PERFORMANCE COATING.
 - 32 EXTERIOR IMPROVEMENTS**
32.12 ASPHALT PAVING | SPEC 321216
32.12.03 ASPHALT PAVING
32.12.04 CRUSHED STONE
32.20 SITEWORK
32.20.02 NEW 8" PVC STORMWATER PIPING, COORDINATE WITH ROOF DRAIN COLLECTOR DETAIL. PROVIDE POSITIVE SLOPE AND TIE INTO EXISTING STORMWATER SYSTEM AS SHOWN. INCLUDE EXCAVATION, REMOVE OF EXISTING STORM LINE, AND BACKFILL AS REQUIRED.

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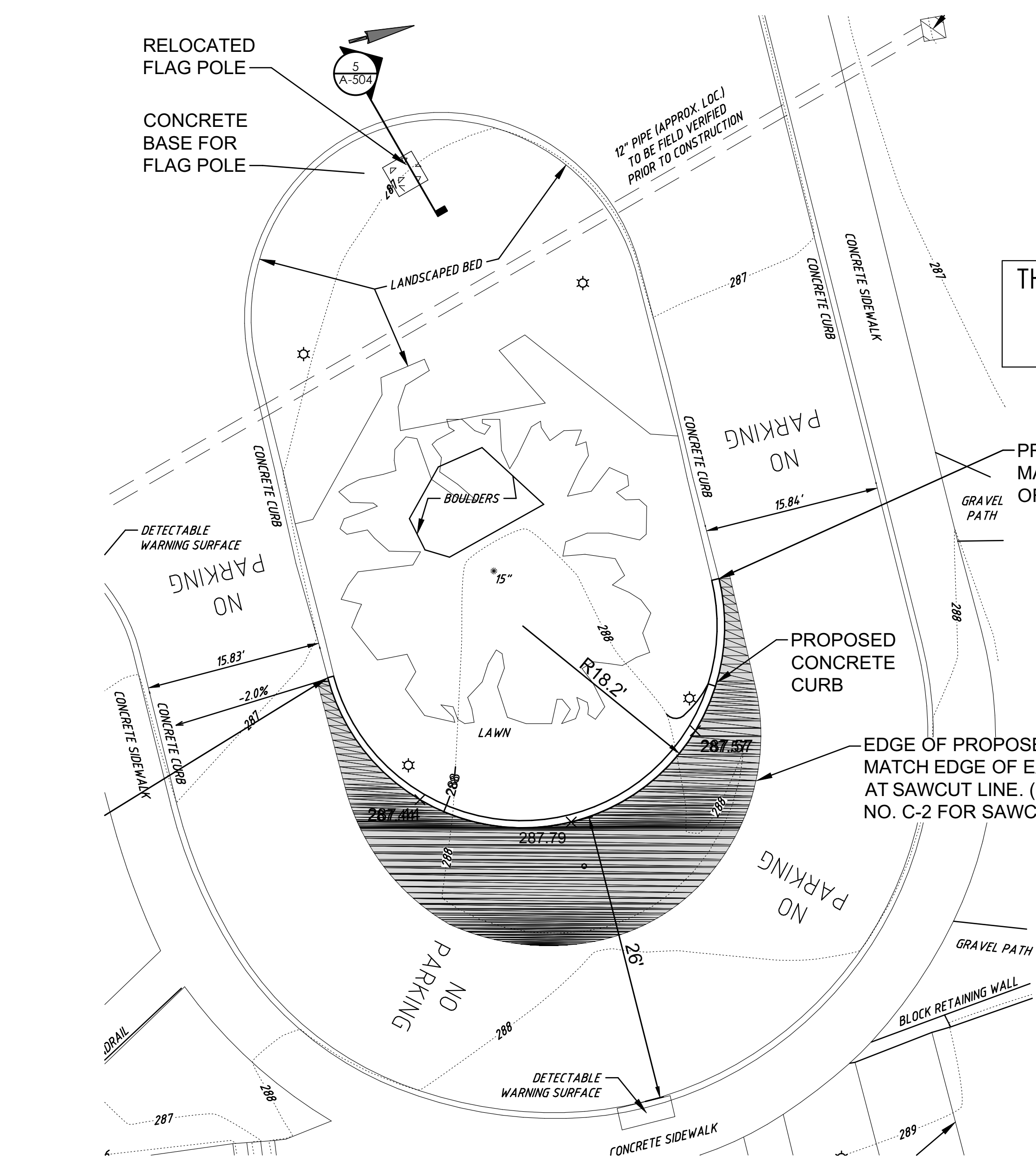
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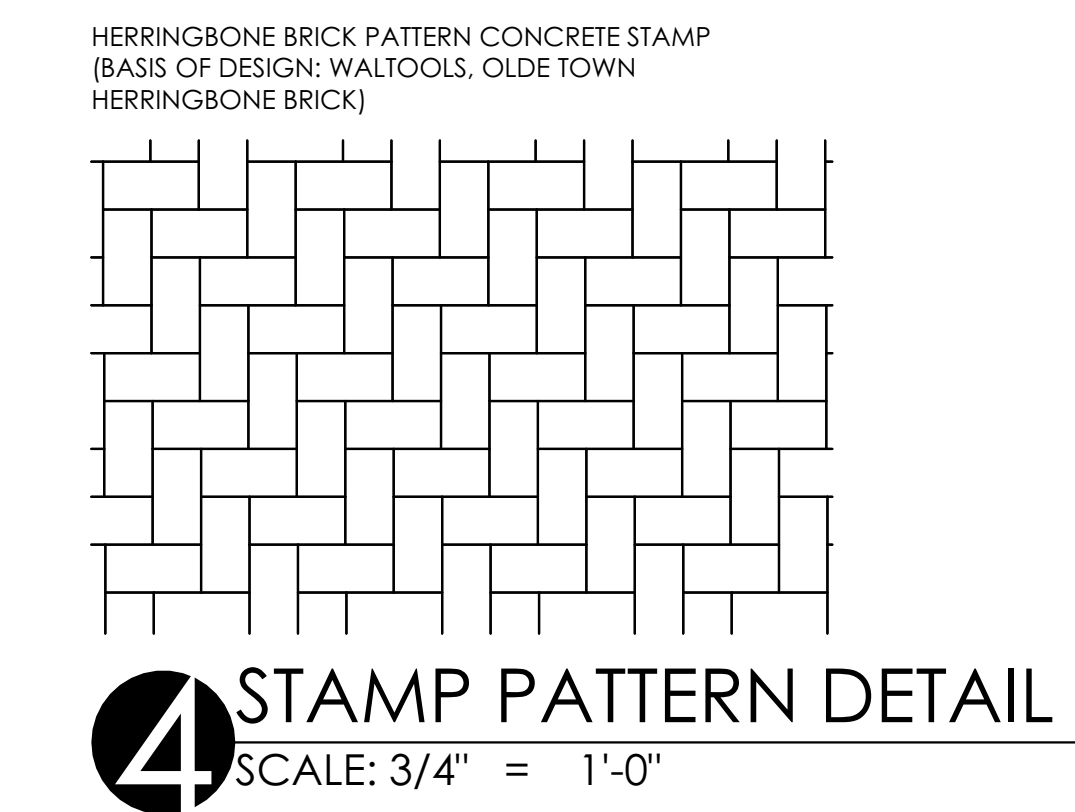
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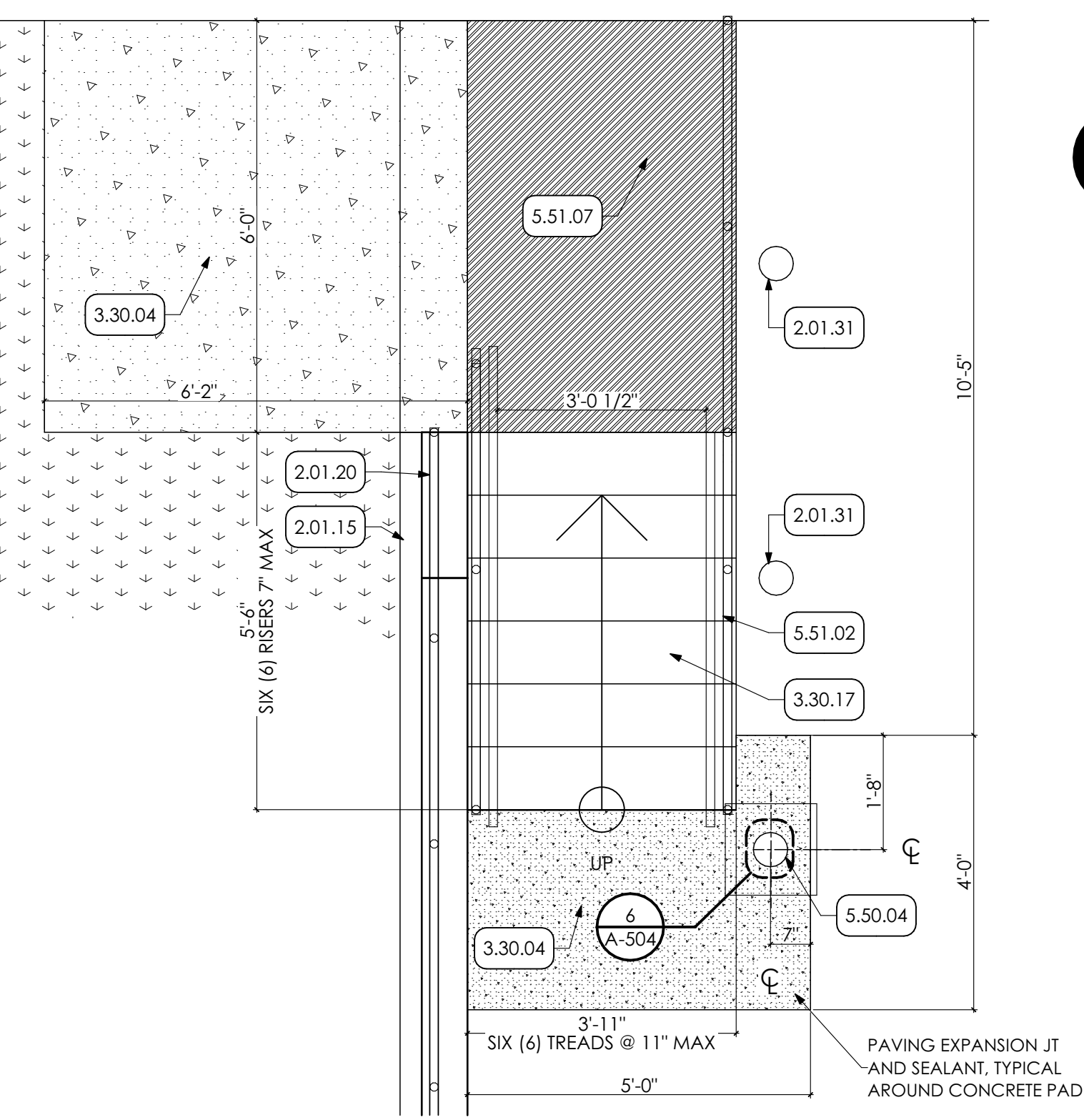
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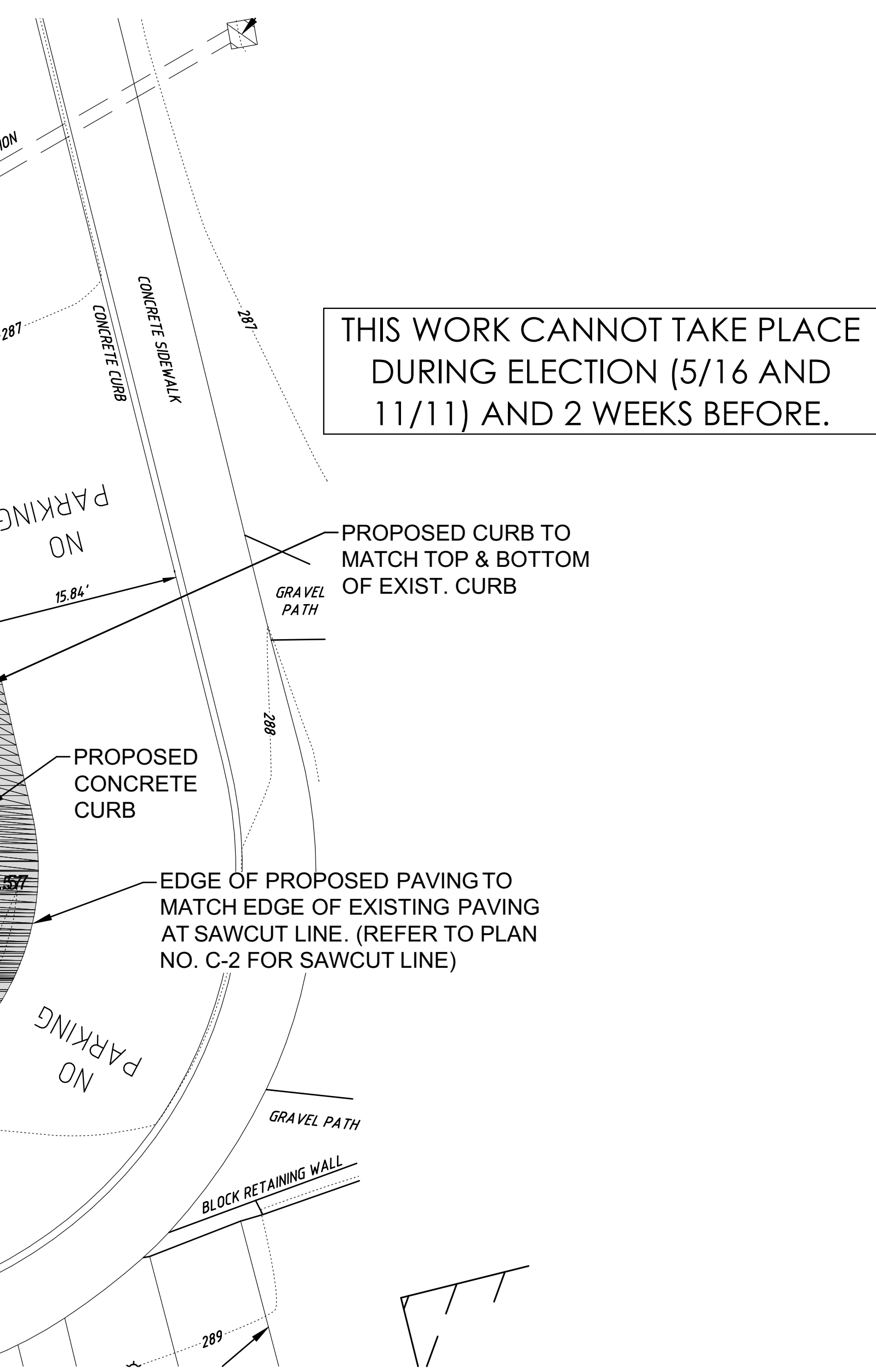
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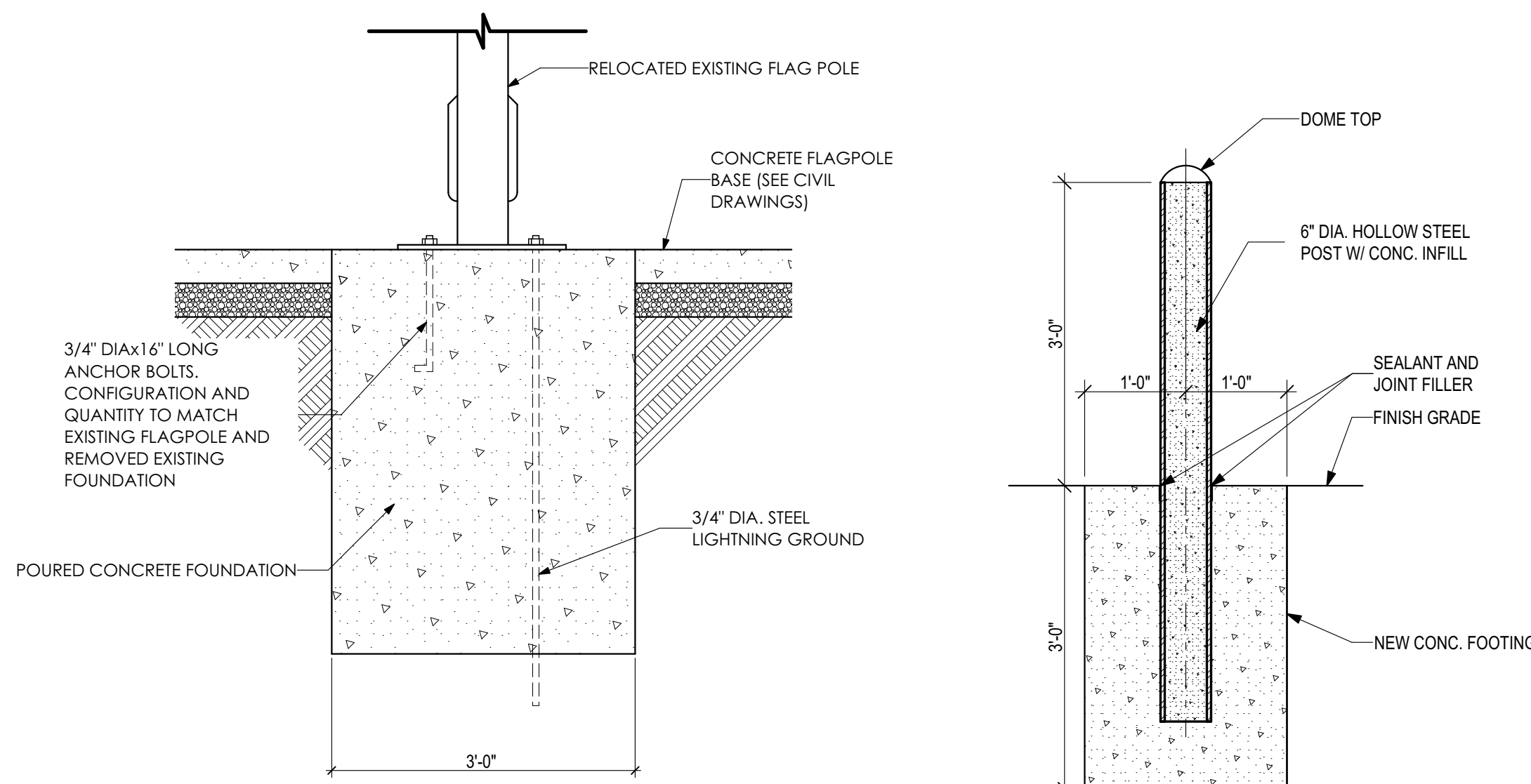
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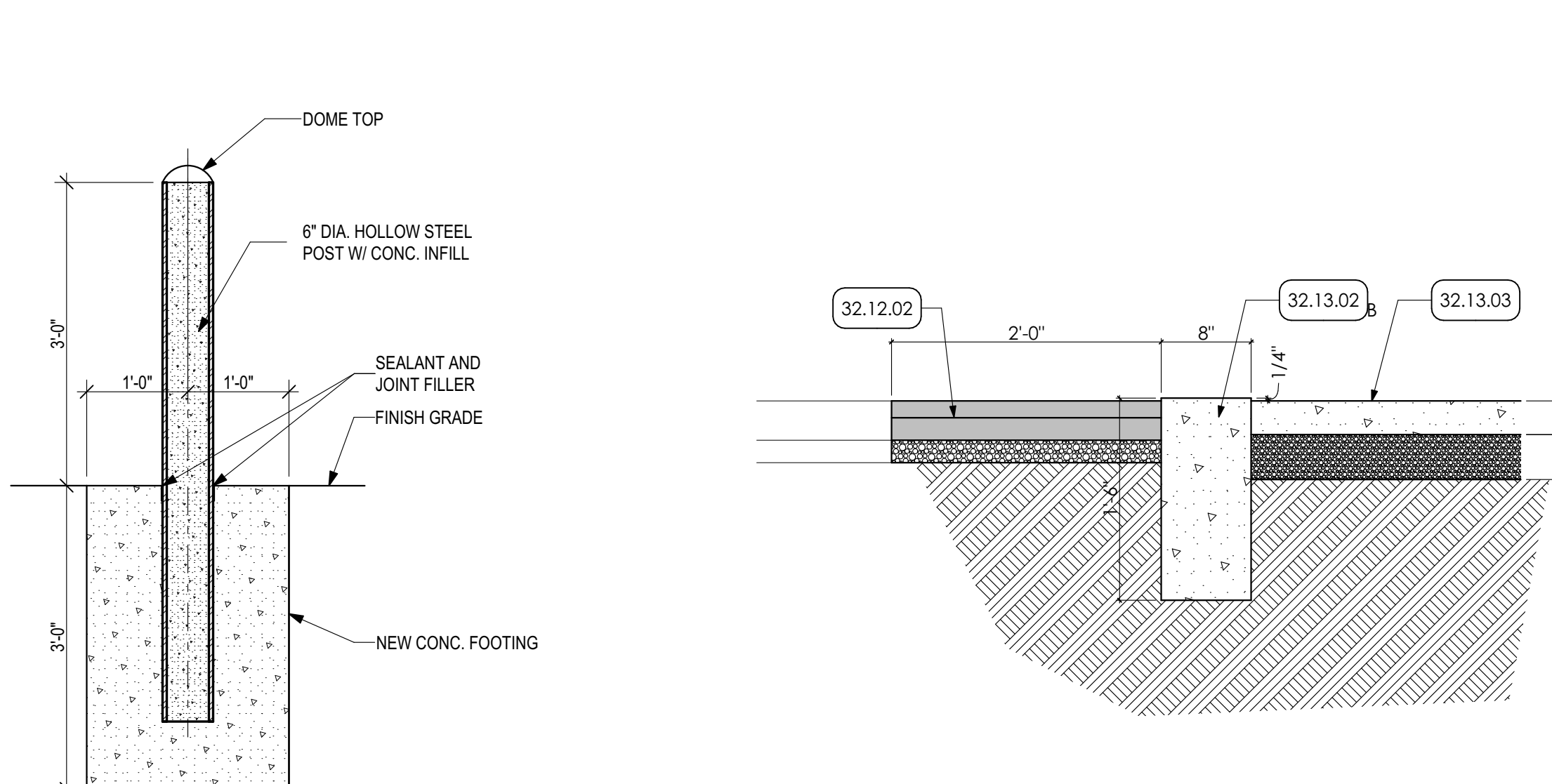
8 ENLARGED PLAN
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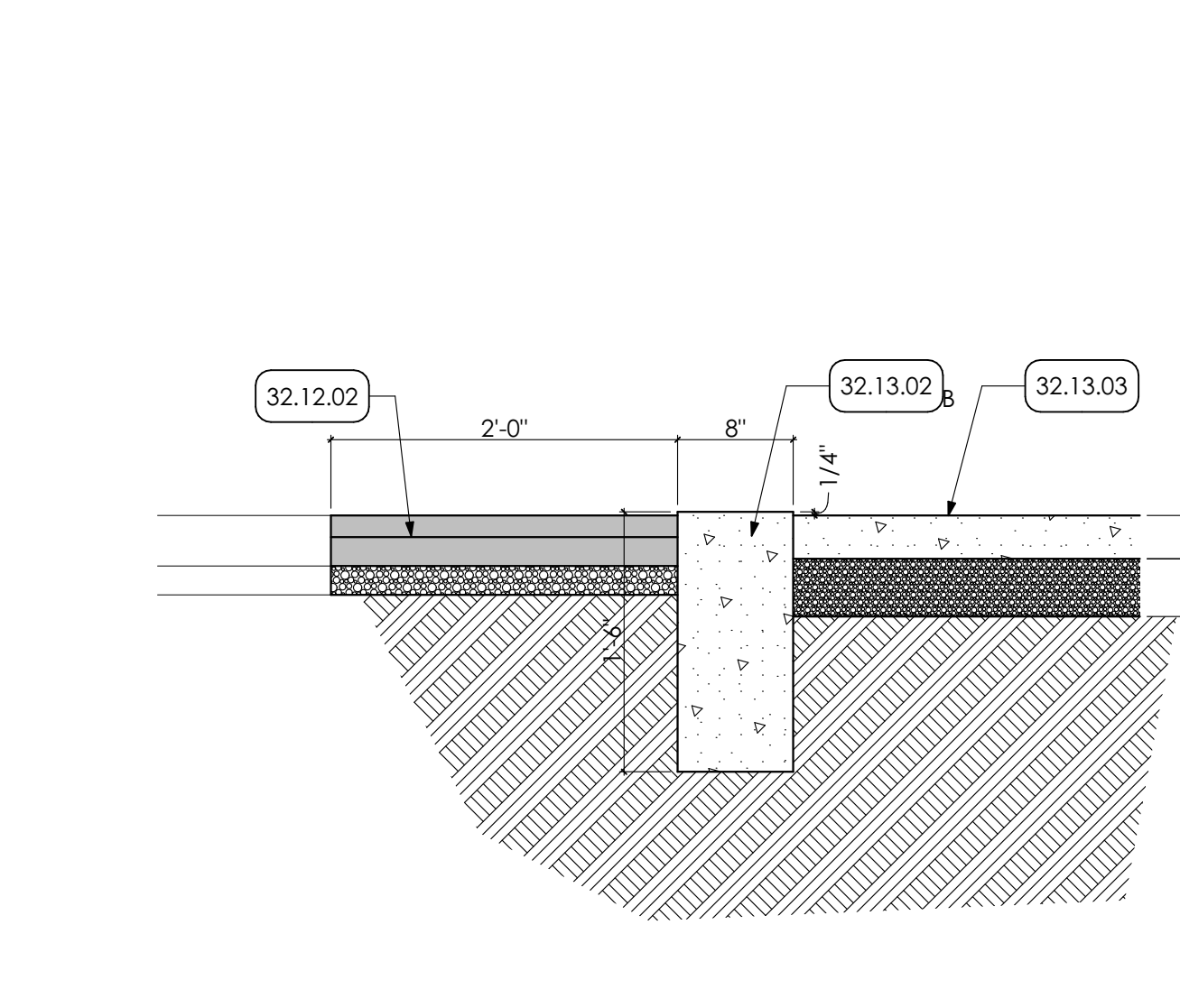
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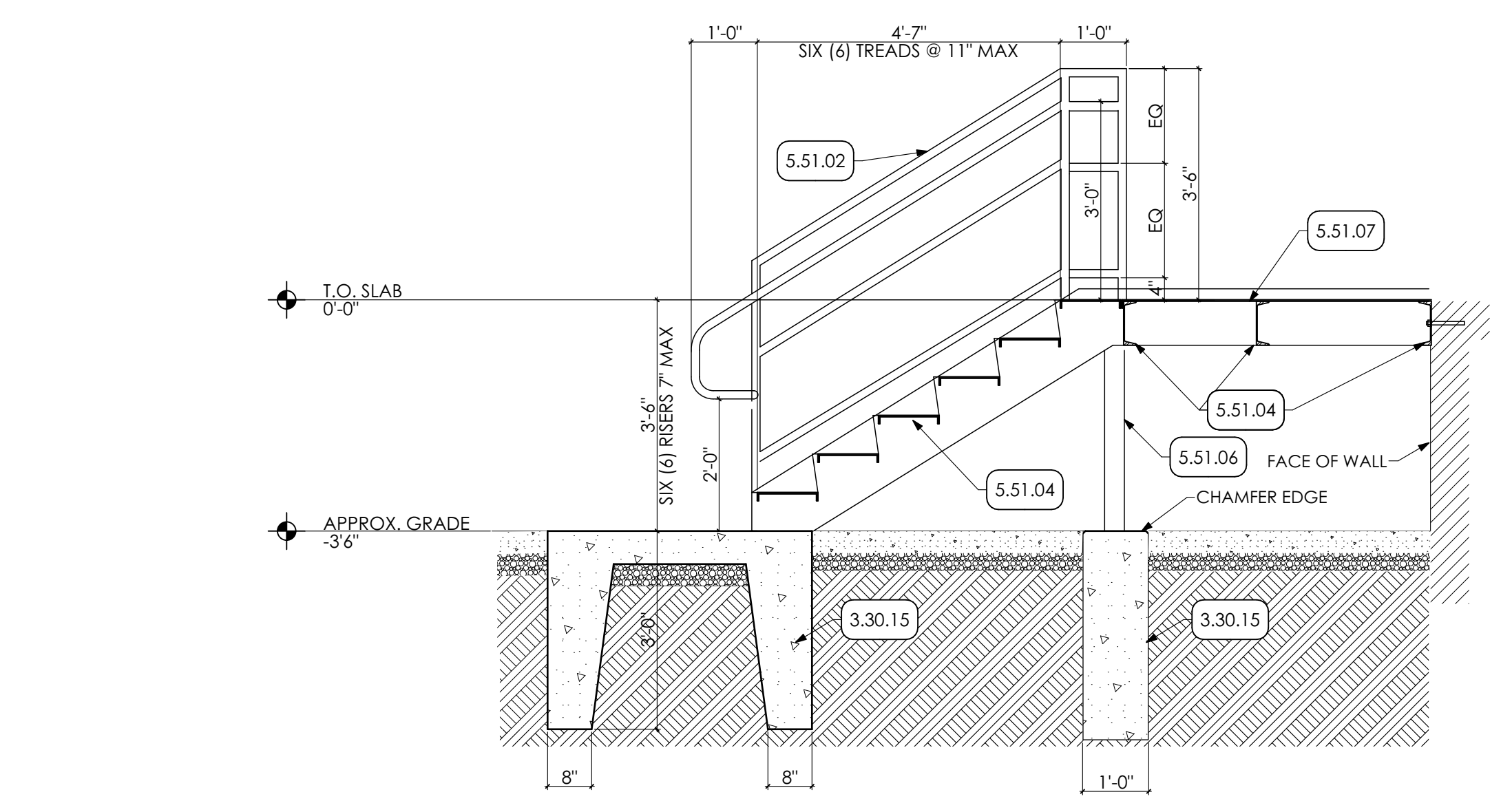
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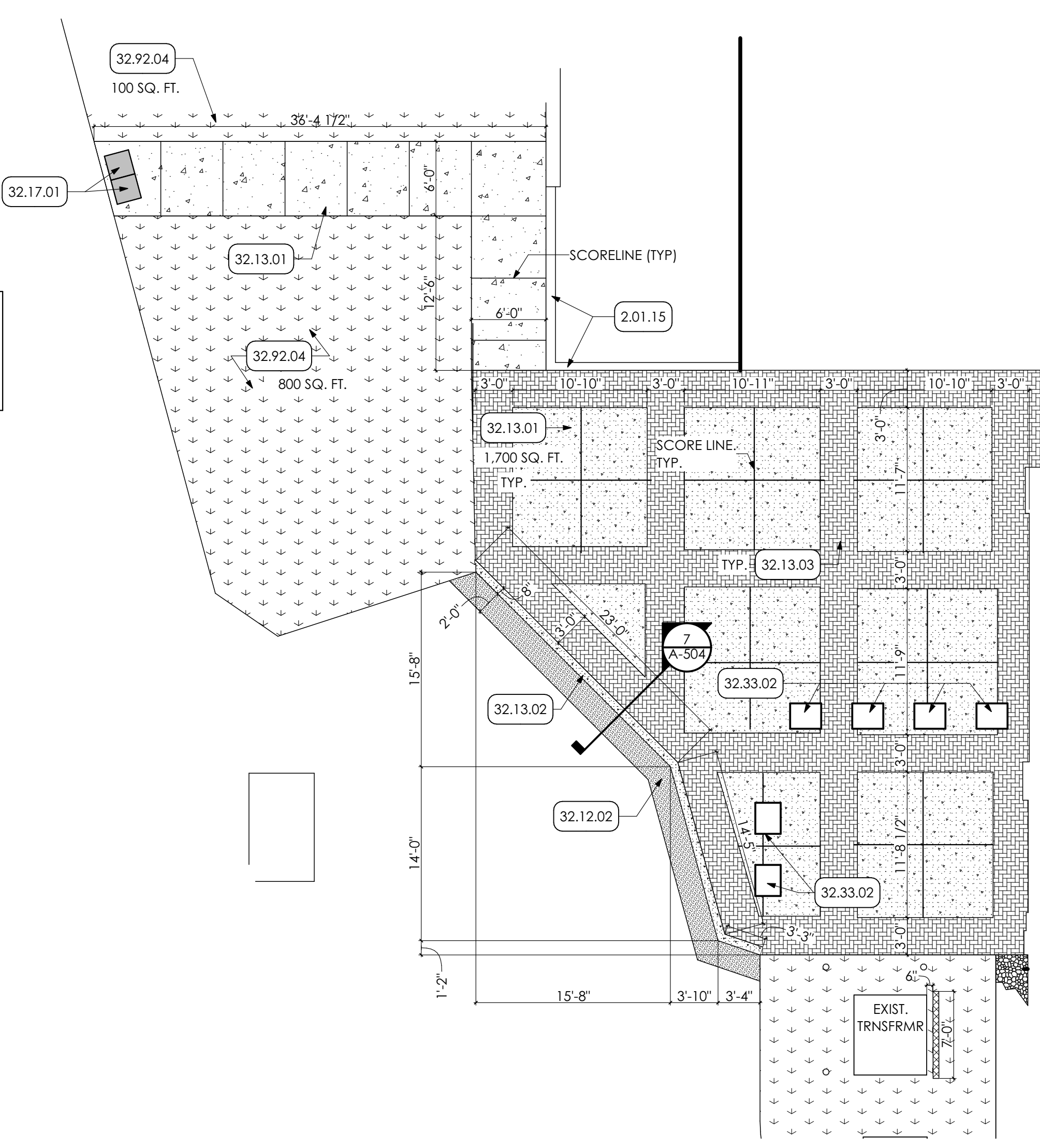
6 BOLLARD DETAIL
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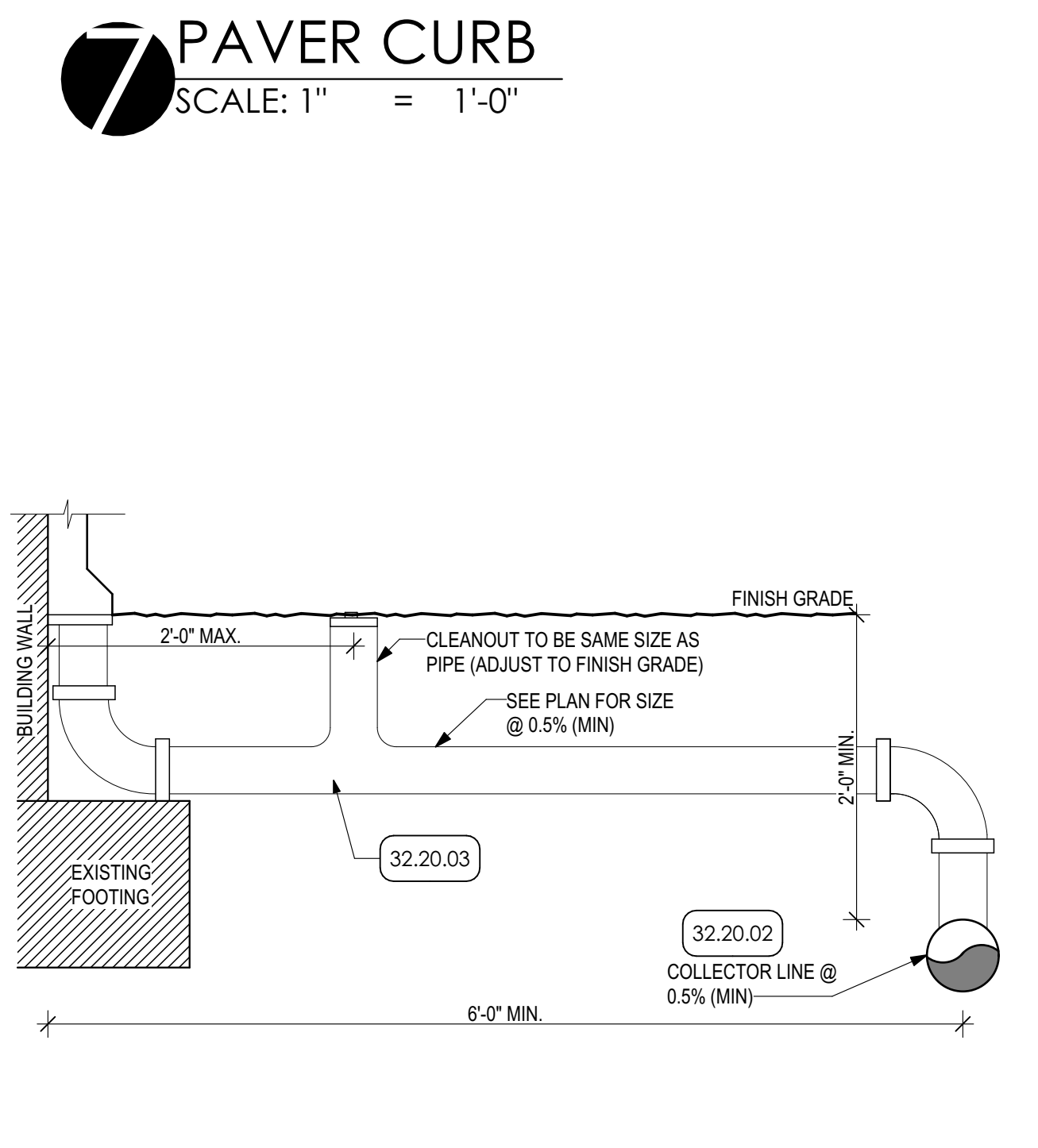
7 PAVER CURB
SCALE: 1" = 1'-0"



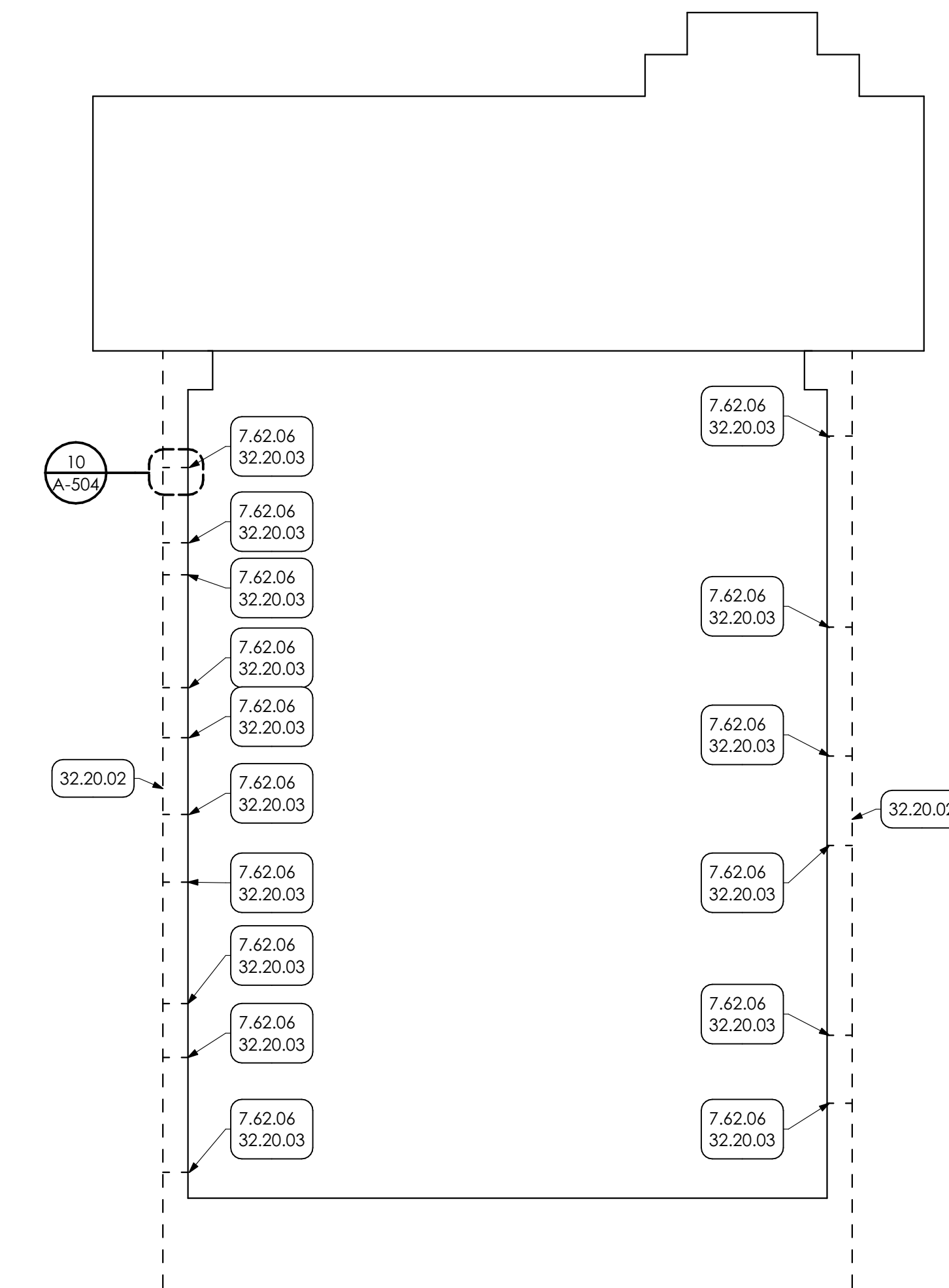
9 STAIR SECTION
SCALE: 1/2" = 1'-0"



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



10 ROOF DRAIN COLLECTOR DETAIL
SCALE: 1" = 1'-0"



11 RWC PLAN
SCALE: 1" = 30'

- KEY NOTES**
- 02 DEMOLITION**
 - 2.01 EXISTING CONDITIONS
 - 2.01.15 EXISTING RETAINING WALL TO REMAIN
 - 2.01.20 EXISTING RAILING TO REMAIN
 - 2.01.29 EXISTING CONCRETE SLAB TO REMAIN
 - 2.01.31 EXISTING BOLLARD TO REMAIN
 - 2.01.36 EXISTING CONCRETE FOOTING TO REMAIN
 - 03 CONCRETE**
 - 3.30 **CAST-IN-PLACE CONCRETE | SPEC 033000 | 033000**
 - 3.30.04 CAST-IN-PLACE CONCRETE PAD WITH DRAINAGE FILL. COORDINATE WITH STRUCTURAL DRAWING.
 - 3.30.15 CONCRETE FOUNDATION COORDINATE WITH STRUCTURAL DRAWINGS
 - 3.30.16 COMPRESSIBLE JOINT FILLER
 - 3.30.17 NEW CAST IN PLACE CONCRETE STAIR.
 - 3.45 **PRECAST ARCHITECTURAL CONCRETE**
 - 3.45.01 COORDINATE WITH STRUCTURAL DRAWINGS
 - 3.45.01 CONCRETE CAP
 - 04 MASONRY**
 - 4.22 **CMU MASONRY | SPEC 042000**
 - 4.20.05 8" CMU GROUTED SOLID. COORDINATE WITH STRUCTURAL DRAWINGS.
 - 05 METALS**
 - 5.50 **METAL FABRICATIONS | SPEC 055000 | SPEC 055213**
 - 5.50.04 CONCRETE FILLED PIPE BOLLARDS.
 - 5.51 **METAL STAIRS | SPEC 055100**
 - 5.51.02 1 1/2" DIA. METAL PIPE GUARDRAIL AT 42" HT. AND HANDRAIL AT 36" HT. PREP AND PAINT.
 - 5.51.04 1/2" STEEL CHANNEL STRINGER. PREP AND PAINT.
 - 5.51.06 4"x4" STEEL POST. PREP AND PAINTED (2 COATS).
 - 5.51.07 STEEL DIAMOND PLATE LANDING.
 - 07 THERMAL AND MOISTURE PROTECTION**
 - 7.42 **SHEET METAL FLASHING/TRIM | SPEC 074200**
 - 7.42.06 PREFINISHED 3"x4" DOWNSPOUT WITH MITERED ELBOWS FURNISH WITH METAL HANGERS FROM SAME MATERIAL AS DOWNSPOUT AND ANCHORS.
 - 09 FINISHES**
 - 9.96 **HIGH-PERFORMANCE COATING**
 - 9.96.01 PREP. PRIME. PAINT (2 COATS) ENTIRE SURFACE WITH HIGH PERFORMANCE COATING.
 - 32 EXTERIOR IMPROVEMENTS**
 - 32.12 **ASPHALT PAVING | SPEC 321216**
 - 32.12.02 CONCRETE SIDEWALK OVER DRAINAGE FILL. COORDINATE WITH CIVIL DRAWINGS.
 - 32.13.02 CONCRETE CURB. COORDINATE WITH CIVIL DRAWINGS.
 - 32.13.03 STAMPED CONCRETE. COORDINATE WITH STAMP PATTERN DETAIL.
 - 32.13.03.03 STAMP PATTERN DETAIL.
 - 32.17.01 24"x24" TACTILE WARNING TILE.
 - 32.20 **SITING**
 - 32.20.02 NEW 8" PVC STORMWATER PIPING. COORDINATE WITH ROOF DRAIN COLLECTOR DETAIL. PROVIDE POSITIVE SLOPE AND TIE INTO EXISTING STORMWATER SYSTEM AS SHOWN. INCLUDE EXCAVATION. REMOVE OF EXISTING STORM LINE. AND BACKFILL AS REQUIRED.
 - 32.20.03 6" PVC STORMWATER PIPING EXTENSION FROM DOWNSPOUT. COORDINATE LOCATIONS WITH EXTERIOR ELEVATIONS.
 - 32.33 **SITE FURNISHINGS**
 - 32.33.02 GRC CONCRETE PLANTER. (BASIS OF DESIGN: TOURNESOL SITEWORKS; URBAN COLLECTION; PART NO. UCR-3600; 36"x30"x34" OR EQUAL)
 - 32.92 **Turf AND GRASSES | SPEC 322000**
 - 32.92.04 BACKFILL TO FINISH FLUSH WITH ADJACENT GRADE AND PROVIDE SEED. BY G.C.

M&G ARCHITECTS
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PROJECT #:
22-0012

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ISSUED		
ID	DESCRIPTION	DATE

PROJ. MGR.: JIM SARRO
P.M. e-MAIL: JMS@MG-Architects.com
DRAWN BY: DK, SG, BB, JS
CLIENT PROJ #:

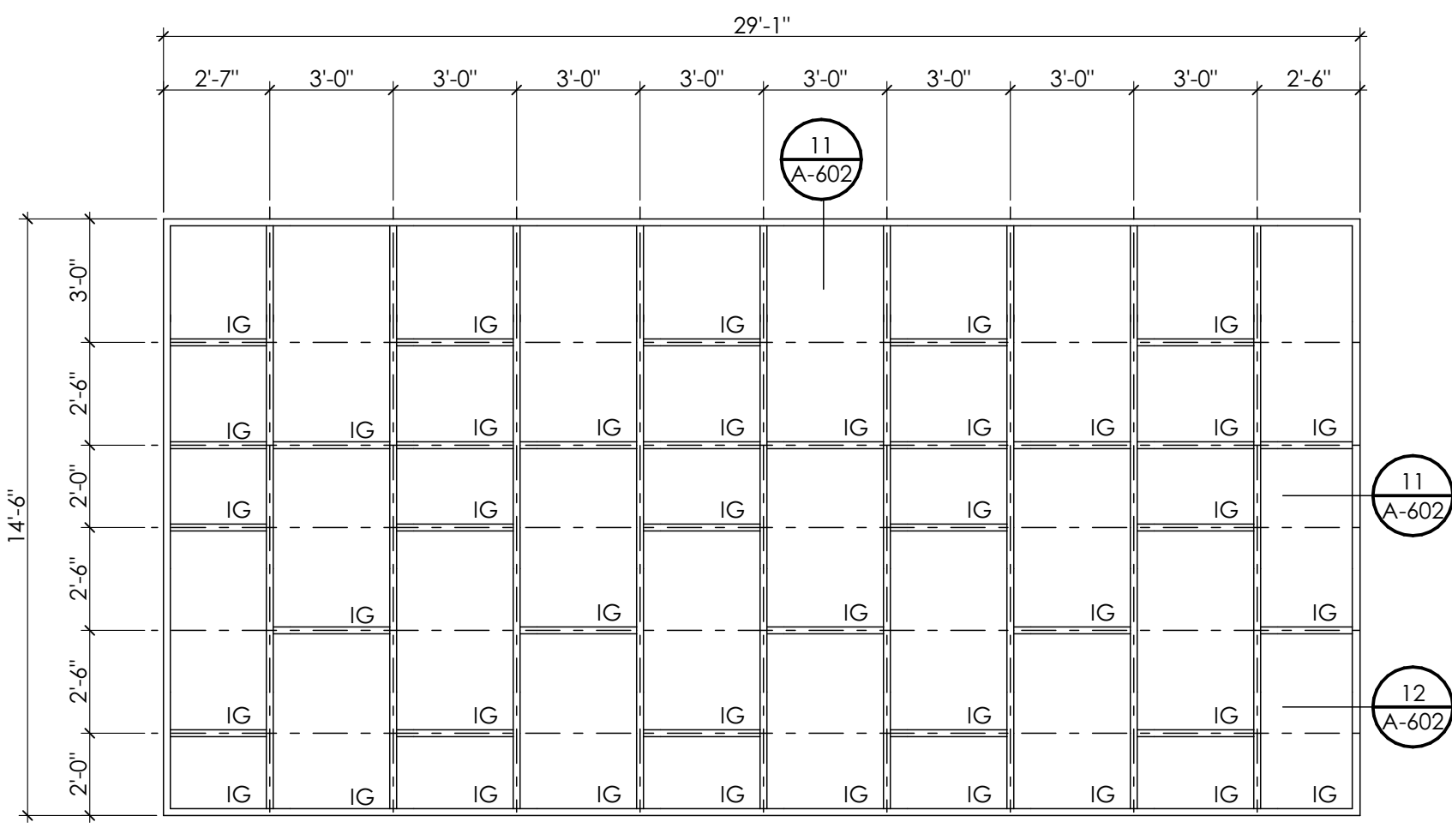
GRAPHIC SCALE
1" = 1' (1" INCH LONG ON ORIGINAL DRAWING)

0 1 2 3 4 5 6 7 8 9 10
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

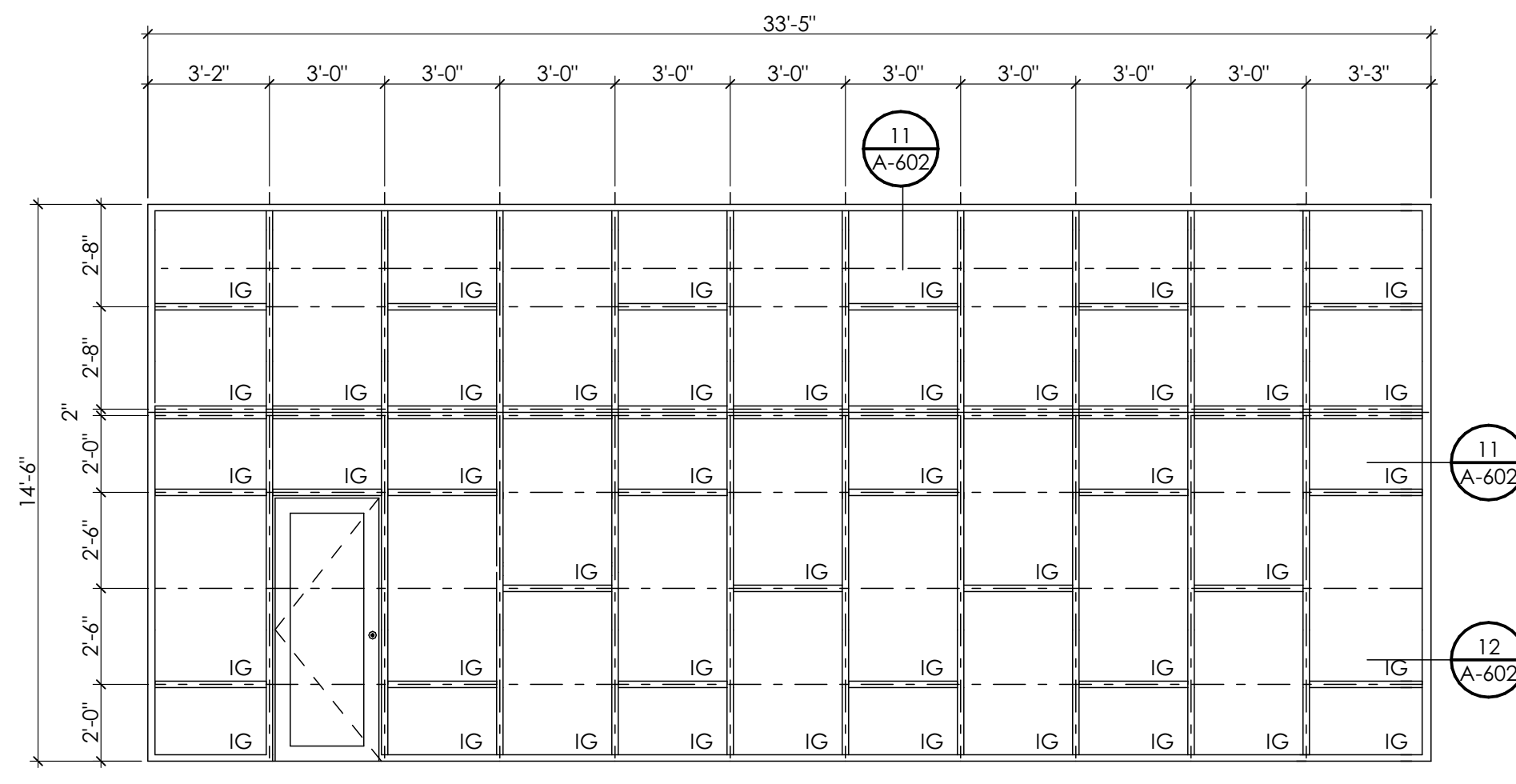
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SHEET TITLE:
SITE DETAILS

A-504

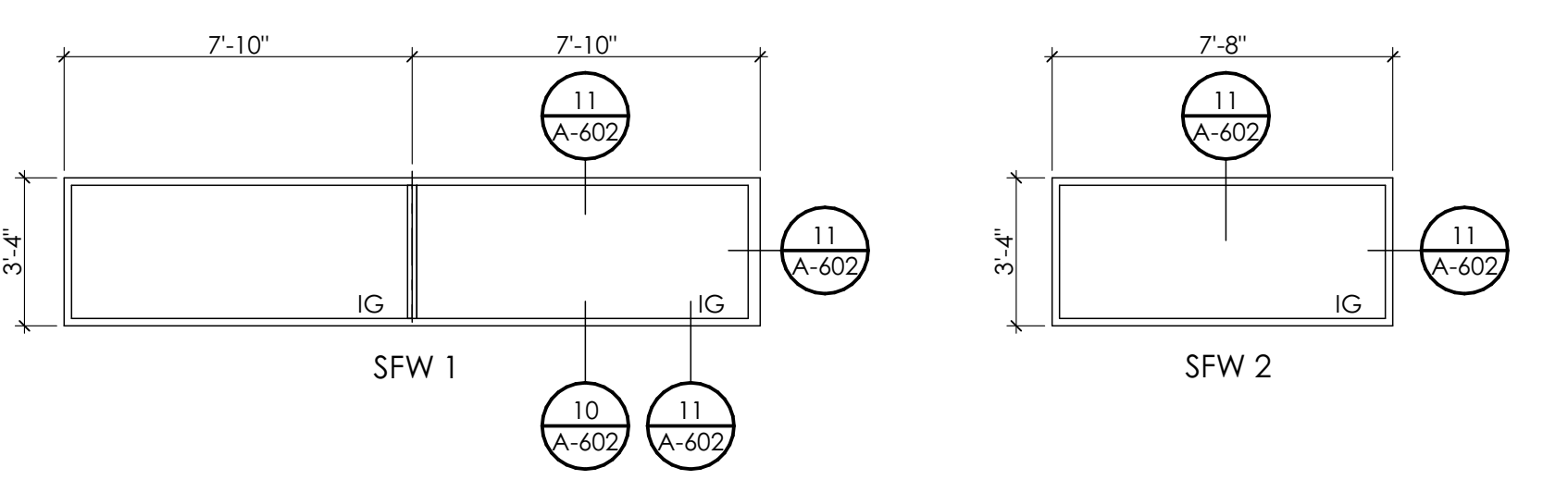


CW 1

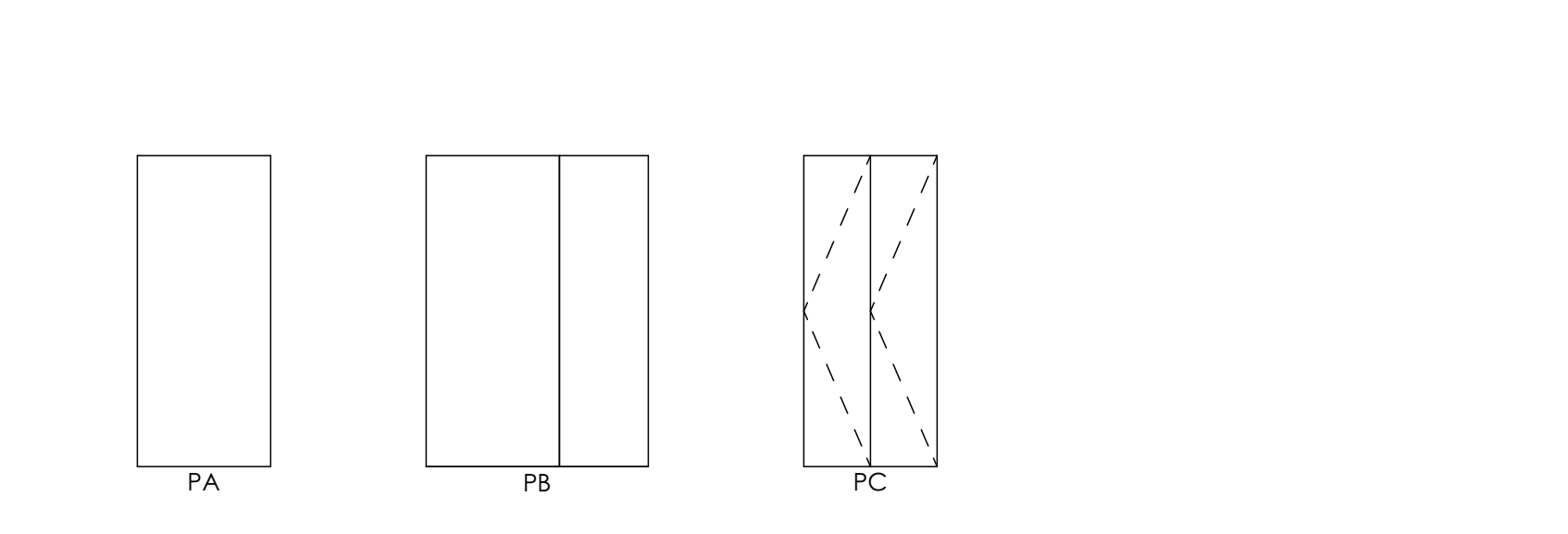


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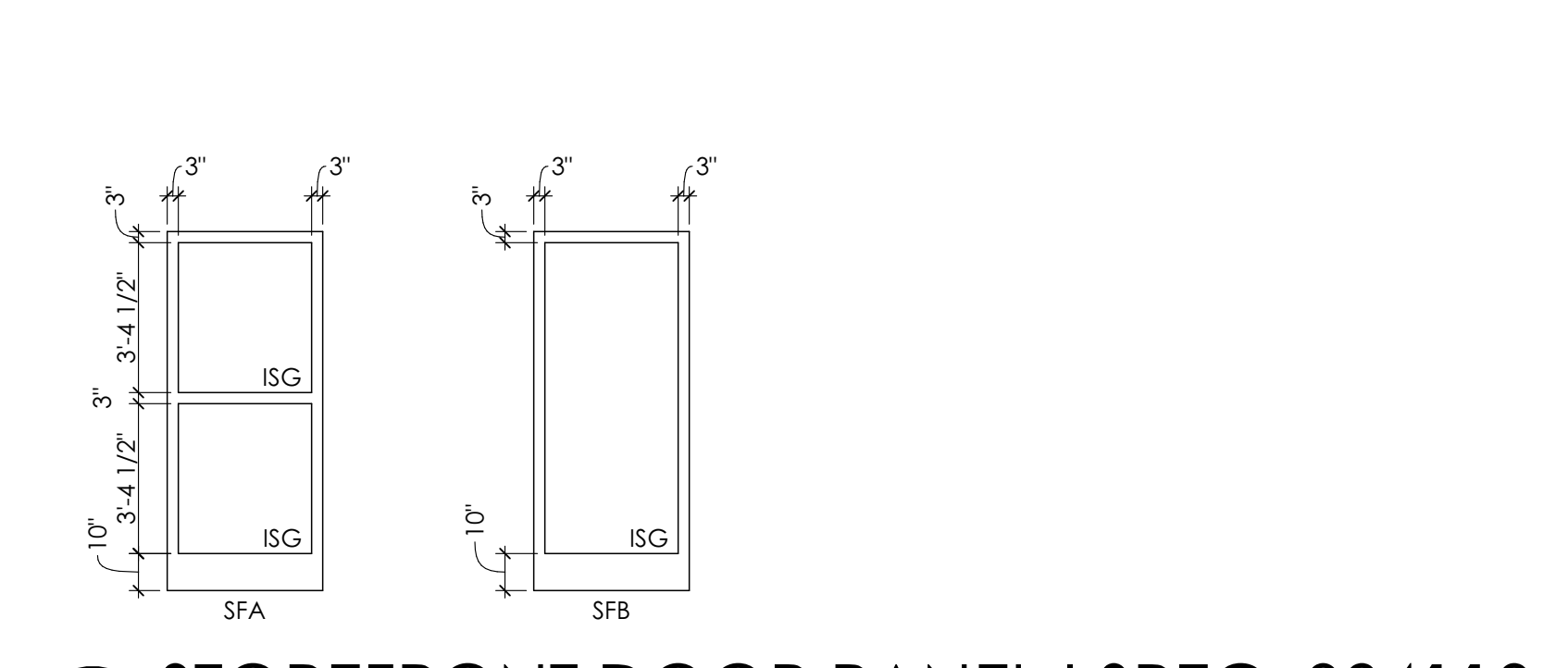
1 CURTAINWALL TYPES | SPEC: 084413
SCALE: 1/4" = 1'-0"



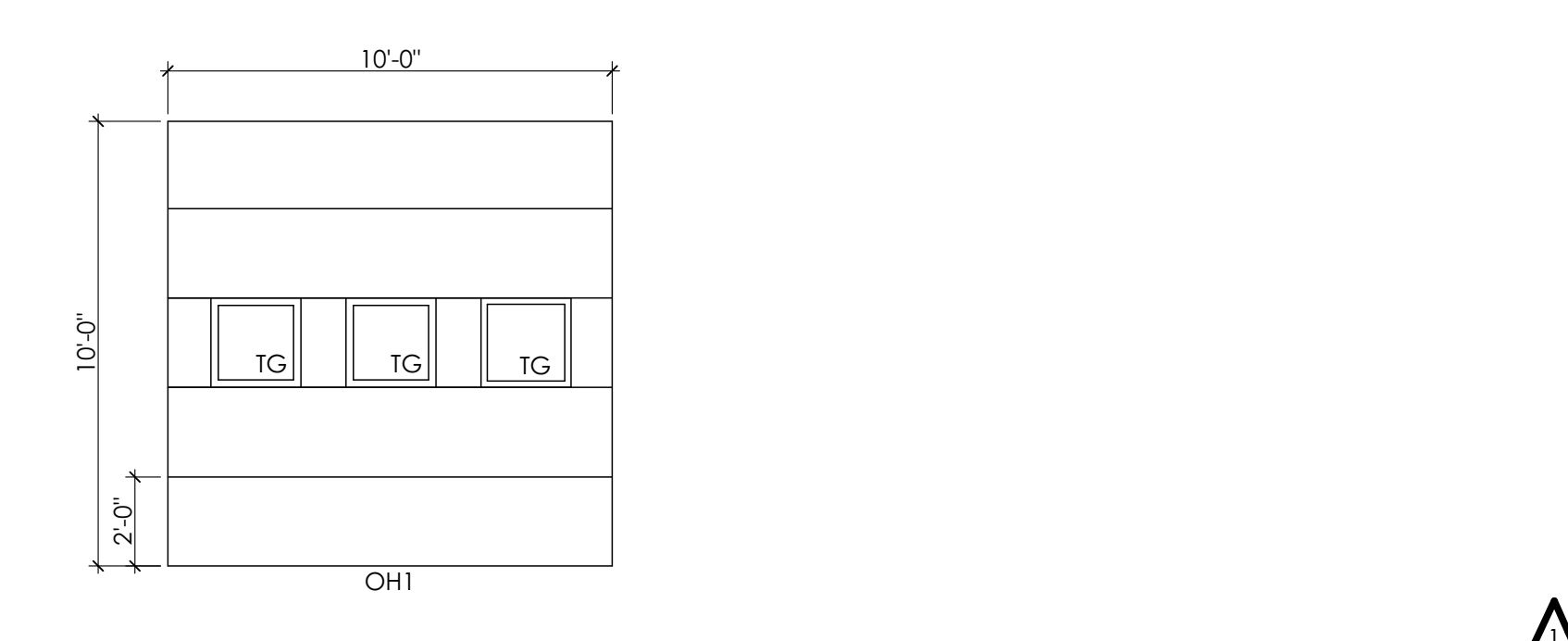
5 STOREFRONT TYPES | SPEC: 084113
SCALE: 1/4" = 1'-0"



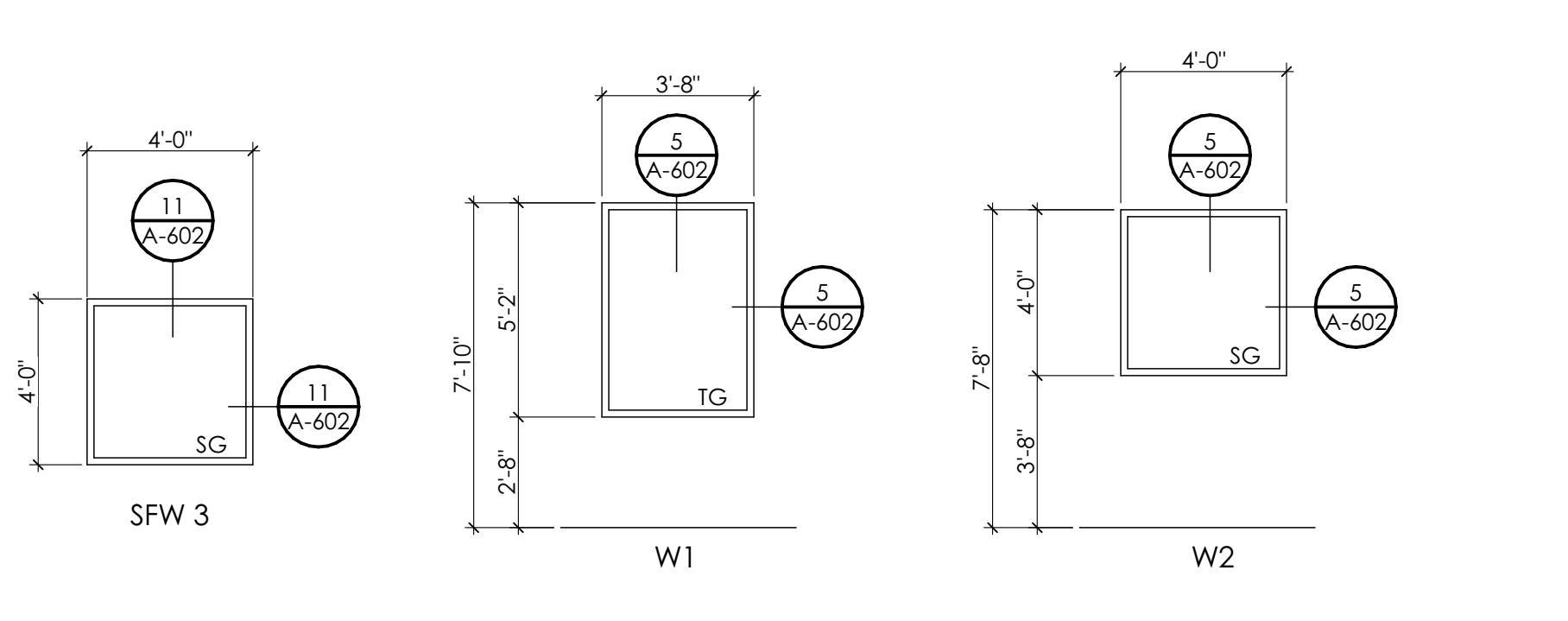
7 DOOR PANELS | SPEC: 081113/081416
SCALE: 1/4" = 1'-0"



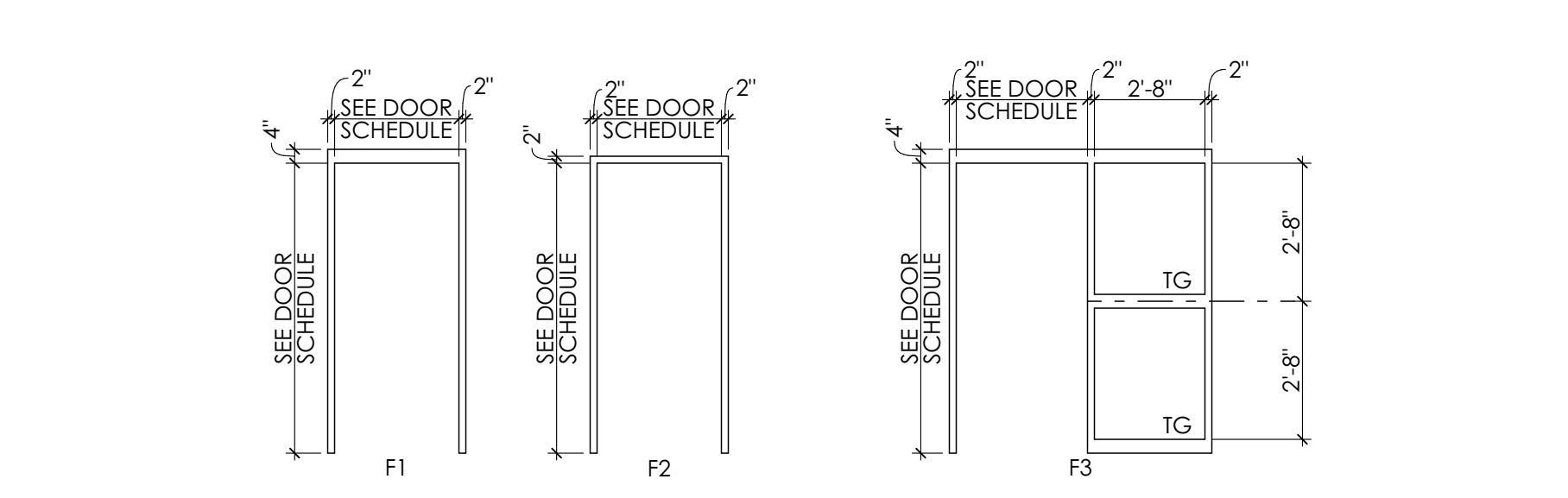
9 STOREFRONT DOOR PANEL | SPEC: 084113
SCALE: 1/4" = 1'-0"



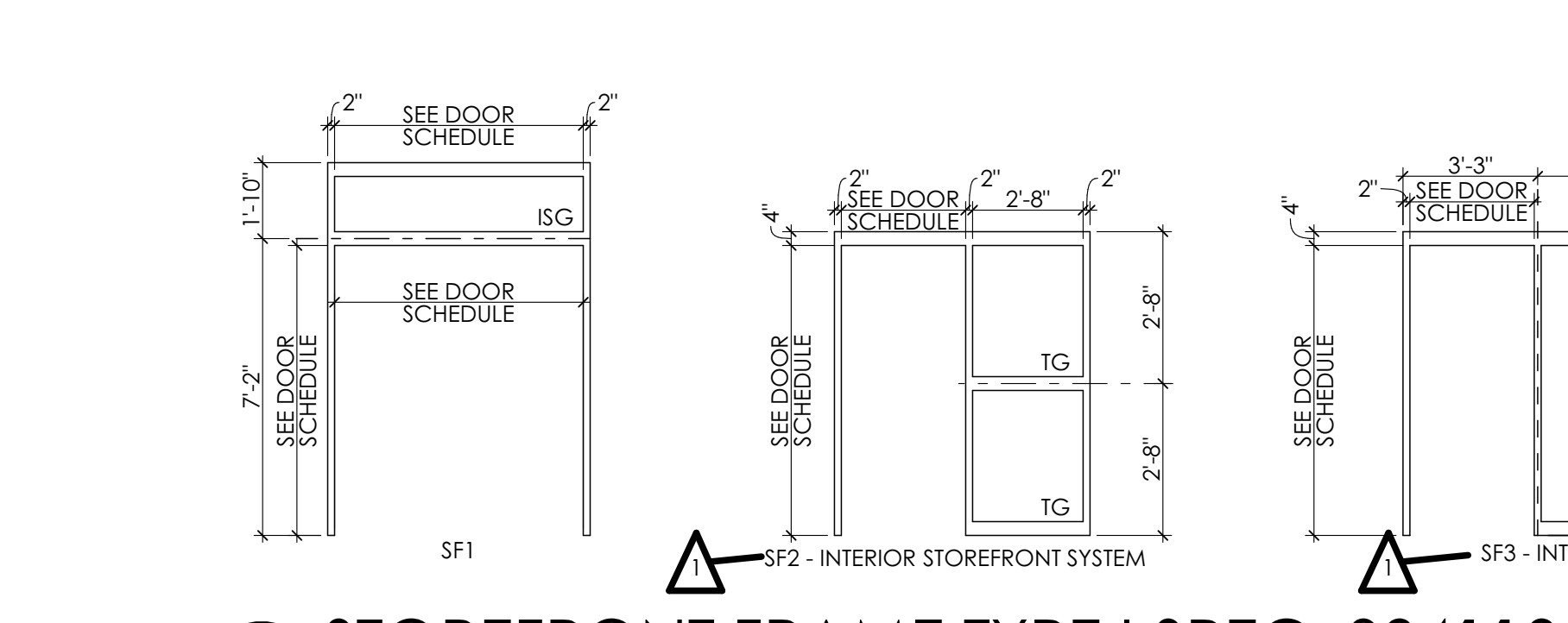
11 SECTIONAL DOOR | SPEC: 083613
SCALE: 1/4" = 1'-0"



6 HM WINDOW TYPES | SPEC: 081113
SCALE: 1/4" = 1'-0"



8 HM FRAME TYPE | SPEC: 081113
SCALE: 1/4" = 1'-0"



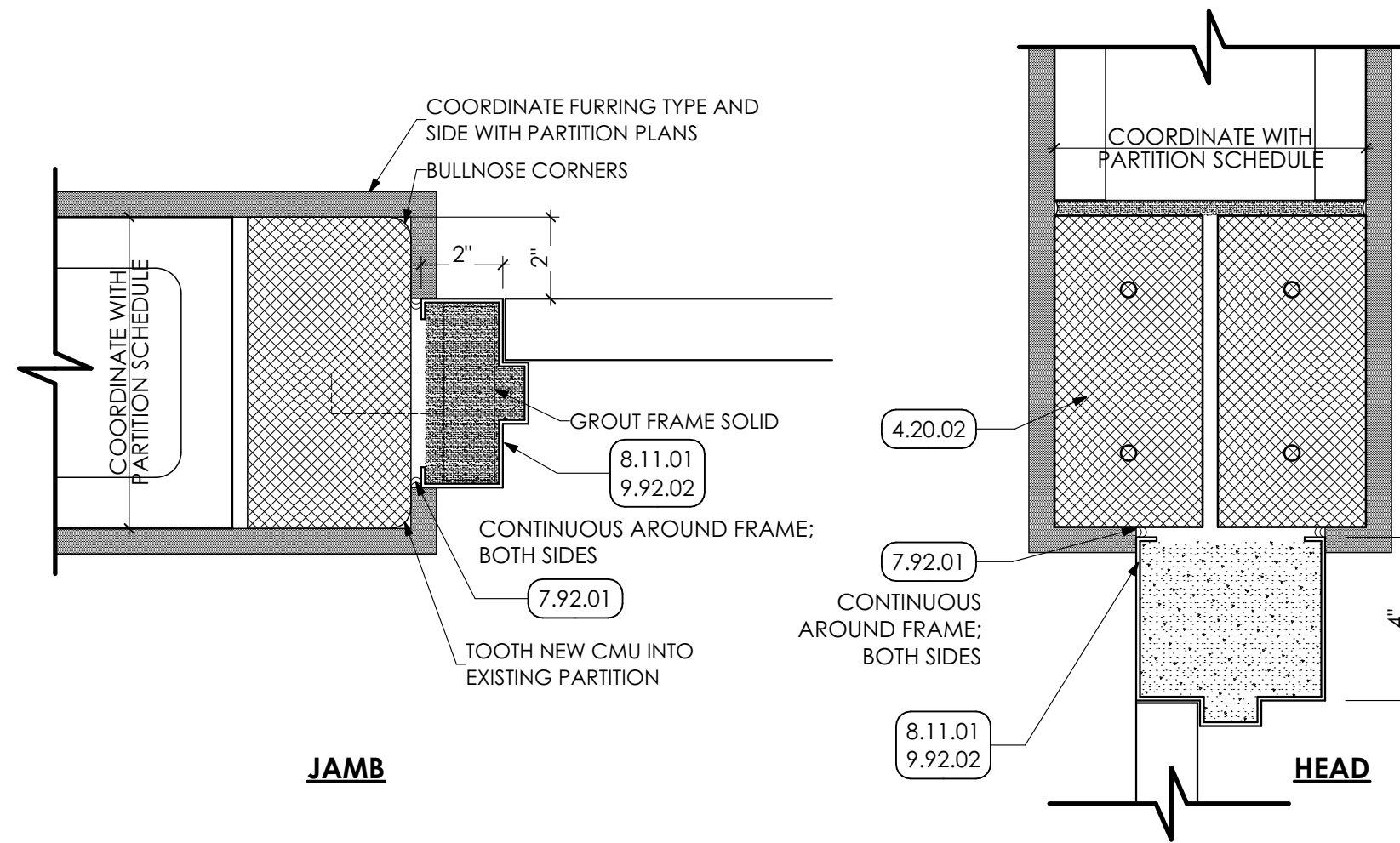
10 STOREFRONT FRAME TYPE | SPEC: 084113
SCALE: 1/4" = 1'-0"

HARDWARE ID	DOORS	LOCK/LATCH FUNCTION	MORTISE (M)/BORED (B)	HARDWARE OUTSIDE	HARDWARE INSIDE	HINGE	ELECTRIC LOCK & POWER TRANSFER	CONTACT POSITION SWITCH	CARD/KEY FOB READER	CLOSER / HOLD-OPEN	STOP/BUMPER	KICK PLATE	GASKET	FLOOR SWEEP	THRESHOLD	ACCESSORIES	NOTES
1	G008, G013A, G013B, G014, G210, G214, G215, G218, G219, G406A	CLASSROOM	M	LEVER	LEVER	1.5 PAIR				CLOSER	WALL STOP						
2	G009, G012B, G015A, G015B, G017, G203, G408	CLASSROOM	M	LEVER	LEVER	1.5 PAIR				CLOSER	WALL STOP						
3	G002B, G012C, G012D	RIM TYPE EGRESS	B	LEVER	PANIC BAR	1.5 PAIR					WALL STOP		YES				
4	G002C, G010	CLASSROOM (ACTIVE)	M	LEVER	LEVER	1.5 PAIR	YES	YES	YES		WALL STOP					TOP/BOTTOM LATCH ON INACTIVE LEAF	
5	G017A, G011	CLASSROOM	M	LEVER	LEVER	1.5 PAIR	YES	YES	YES				YES	YES	ALUM		
6	G012A	RIM TYPE EGRESS	B	LEVER	PANIC BAR	1.5 PAIR	YES	YES	YES								
7	G017C, G217A	RIM TYPE EGRESS	B	LEVER	PANIC BAR	1.5 PAIR	YES	YES	YES								
8	G017D, G1008, G100C, G205, G213, G217C, G217D, G300B, G404D	RIM TYPE EGRESS	B	LEVER	PANIC BAR	1.5 PAIR	YES	YES	YES				YES				
10	G019A, G019B, G214B	PUSH/PULL	B	PULL	PUSH	CONT.	YES	YES	YES	CLOSER			YES		ALUM	ASTRAGAL	
11	G100A, G200A, G200B, G401A, G400	PRIVACY	M	LEVER	LEVER	1.5 PAIR	YES	YES	YES								
12	G002, G204, G402, G404, G405, G408B, G407	PASSAGE	M	LEVER	LEVER	1.5 PAIR											COVERHEAD DOOR W/FG. STD. STANDARD BI-FOLD
13	G206, G207, G208, G209, G210, G211, G212, G409, G410	PUSH/PULL	B	PULL	PUSH	CONT.											
14	G217B	CLASSROOM	M	LEVER	LEVER	1.5 PAIR	YES	YES	YES				YES				
15	G017B	PUSH/PULL	B	PULL	PANIC BAR	CONT.	YES	YES	YES	CLOSER			YES		ALUM		TOP/BOTTOM LATCH ON INACTIVE SIDE
16	G300A	CLASSROOM	M	LEVER	LEVER	1.5 PAIR	YES	YES	YES				YES				
17	G301	CLASSROOM	M	LEVER	LEVER	1.5 PAIR	YES	YES	YES				YES				
18	G300C	CLASSROOM	M	LEVER	LEVER	1.5 PAIR	YES	YES	YES				YES				
19	G403	BI-FOLD	B	PULL	PULL	CONT.											
20	G404C	PASSAGE	M	LEVER	LEVER	1.5 PAIR	YES	YES	YES								
21	TMG1, TWG1	PUSH/PULL	B	PULL	PULL	1.5 PAIR									MARBLE		
22	TUG1	PRIVACY	M	LEVER	LEVER	1.5 PAIR							YES		MARBLE		

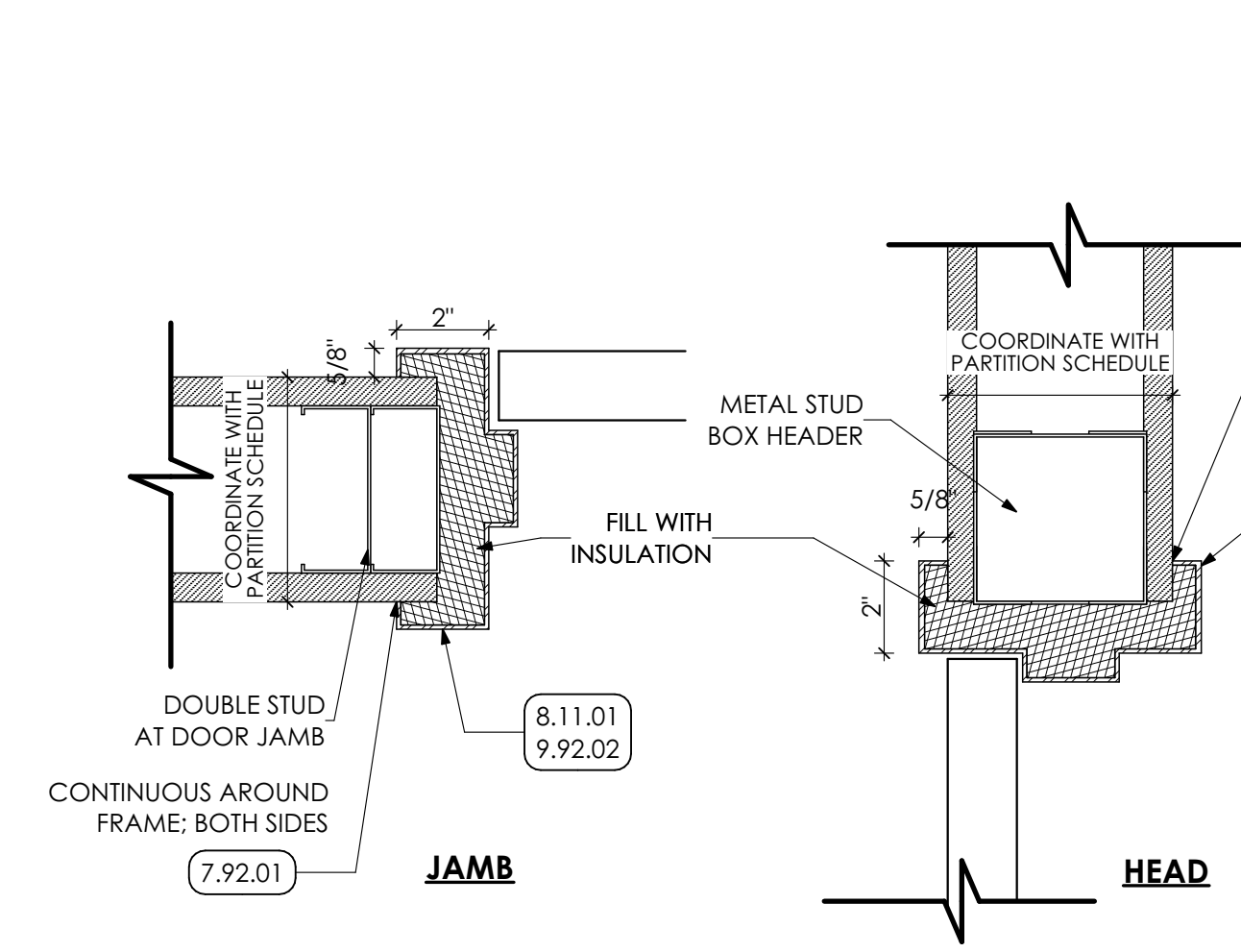
GENERAL HARDWARE NOTES

- PROVIDE FRAME SILENCER INSERTS AT ALL HOLLOW METAL DOOR FRAMES NOT INDICATED FOR FULL GASKET
- US20 FINISH EQUIVALENT TO BHMA FINISH 430 - SATIN STAINLESS STEEL
- "LDW" KICKPLATE INDICATES WIDTH TO BE 2" LESS THAN HOST DOOR WIDTH
- ALL HINGES AT INTERIOR DOORS TO BE PLATED STEEL; EXTERIOR DOOR HINGES TO BE STAINLESS STEEL
- STOREFRONT DOOR HARDWARE TO MATCH STOREFRONT FINISH
- PROVIDE TRANSITION STRIPS AT ALL DOOR LOCATIONS WHERE FLOOR FINISH CHANGES; SITE TO ACCEPT ADJACENT FINISHES
- ALL HANDLE-INTEGRATED LOCK FUNCTIONS TO BE ADA-COMPLIANT PUSH-BUTTON
- ALL CYLINDERS AND PERMANENT CORES TO BE ARGENT.
- CARD ACCESS DOOR OPERATION: DOOR NORMALLY CLOSED AND LOCKED; ENTRY BY VALID CARD CREDENTIAL OR KEY OVERRIDE; FREE EGRESS FROM DIRECTION OF TRAVEL AT ALL TIMES

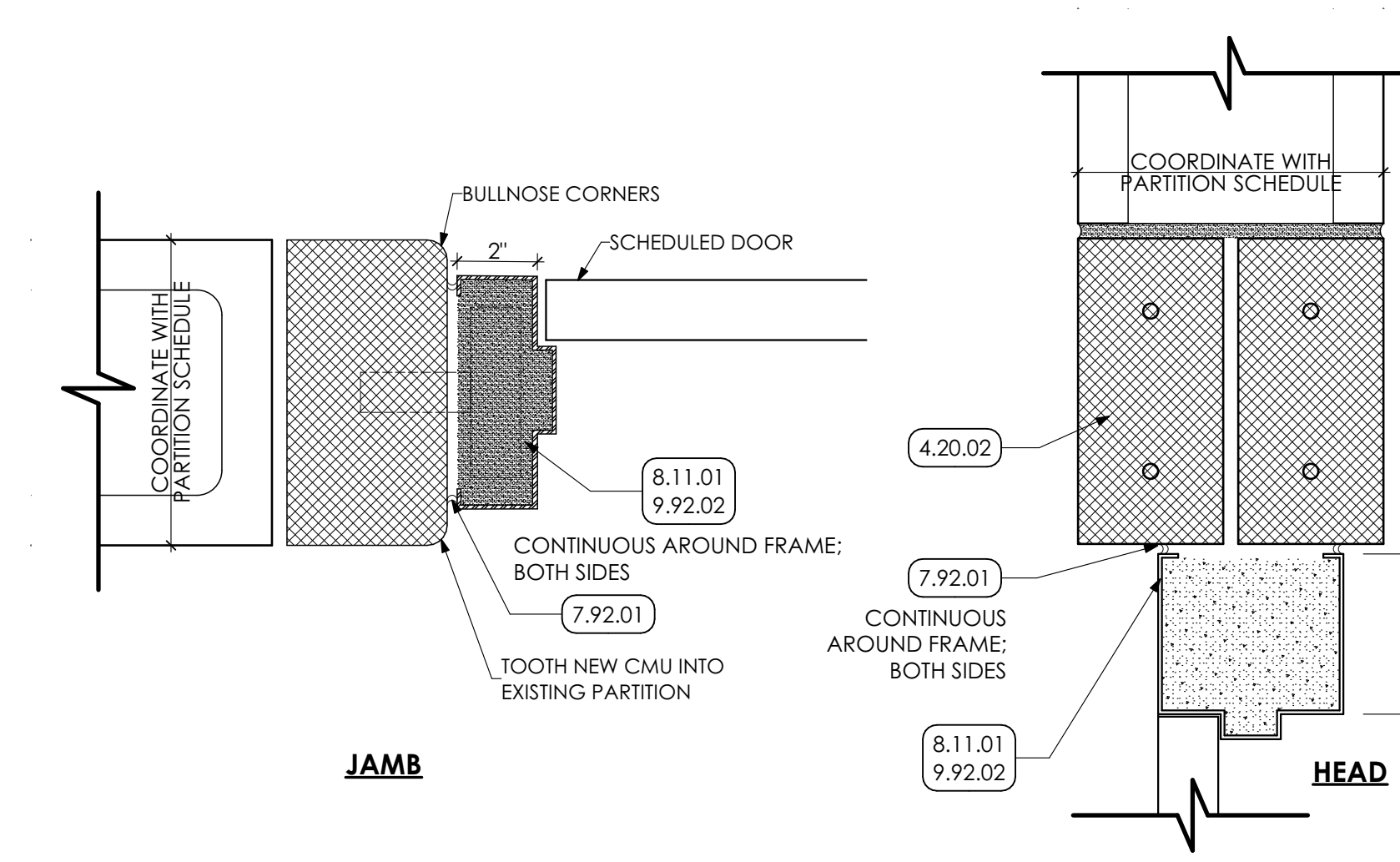
ID	ROOM NAME	PANEL			FRAME			HARDWARE		NOTES				
		EL	MATL	SIZE	EL	MATL	DETAIL	SET NO	FIRE RTG.					
		EL	MATL	W	H	THK	EL	MATL	HEAD	JAMB	SILL			
G002A	CORR.	PA	HM	3'-0"	7'-0"	1 3/4"	F1	HM	A601/3	A601/3		9	CARD ACCESS	
G002B	CORR.	PA	SC/W/D	[2]3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		3	90 MINS	
G002C	CORR.	PA	SC/W/D	[2]3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		4	90 MINS	
G008	I.C.	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		1		
G009	BREAK AREA	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F2	HM	A601/2	A601/2		2		
G010	HALL	PA	SC/W/D	2'-0"/3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		4	CARD ACCESS	
G011	STORAGE W/ CAGES	PA	HM	[2]3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		5	CARD ACCESS	
G012A	LOBBY	PA	SC/W/D	[2]3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		4	CARD ACCESS	
G012B	LOBBY	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		2	CARD ACCESS	
G012C	LOBBY	PA	SC/W/D	3'-0"	7'-0"	2 3/4"	F2	HM	A601/3	A601/3		20		
G013A	SHARED LARGE MEETING ROOM	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F3	HM	A601/9	A601/9		1		
G013B	SHARED LARGE MEETING ROOM	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F3	HM	A601/9	A601/9		1		
G014	CHAIR/TABLE STOR. AV EQUIP	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F2	HM	A601/2	A601/2		1		
G015A	FACILITIES STORAGE	PA	SC/W/D	[2]3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		2	CARD ACCESS	
G015B	FACILITIES STORAGE	PA	SC/W/D	[2]3'-0"	7'-0"	1 3/4"	F1	HM	A601/3	A601/3		2	45MINS	
G017A	CORR.	PA	SC/W/D	[2]3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		5	45MINS	
G017B	CORR.	PA	SC/W/D	[2]3'-0"	7'-0"	1 3/4"	F1	HM	A601/3	A601/3		16	45MINS	
G017C	CORR.	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		8	45MINS	
G017D	CORR.	PA	HM	3'-0"	7'-0"	1 3/4"	F2	HM	A601/4	A601/4		9	CARD ACCESS; REVERSE DOOR SWING IN EXISTING OPENING	
G019A	VEST.	SFA	AL/GL	[2]3'-0"	7'-0"	1 3/4"	SF1	AL/GL	A601/5	A601/5		10	CARD ACCESS	
G019B	VEST.	SFA	AL/GL	[2]3'-0"	7'-0"	1 3/4"	SF1	AL/GL	A601/6	A601/6		10	CARD ACCESS	
G100A	PROPOSED FED OFFICE SUITE	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F3	HM	A601/1	A601/1		11	CARD ACCESS	
G100B	PROPOSED FED OFFICE SUITE	PA	HM	3'-0"	7'-0"	1 3/4"	F2	HM	A601/11	A601/11	TH1	9	CARD ACCESS	
G100C	PROPOSED FED OFFICE SUITE	PA	HM	3'-0"	7'-0"	1 3/4"	F2	HM	A601/11	A601/11	TH1	9	CARD ACCESS	
G200A	RECP.	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F3	HM	A601/2	A601/2		20	CARD ACCESS	
G200B	RECP.	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F3	HM	A601/2	A601/2		11	CARD ACCESS	
G203	SECURED STORAGE	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F1	HM	A601/2	A601/2		2		
G204	SECURED MEETING/ TRAINING ROOM	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F3	HM	A601/2	A601/2		12		
G205	HALLWAY	PA	HM	3'-0"	7'-0"	1 3/4"	F2	HM	A601/11	A601/11		9		
G206	DIRECTOR	SFB	AL/GL	3'-0"	7'-0"	1 3/4"	SF3	AL/GL	A601/5	A601/5	TH1	13	CARD ACCESS	
G207	OFFICE MGR.	SFB	AL/GL	3'-0"	7'-0"	1 3/4"	SF3	AL/GL	A601/5	A601/5		13		
G208	URBAN OFFICE	SFB	AL/GL	3'-0"	7'-0"	1 3/4"	SF3	AL/GL	A601/5	A601/5		13		
G209	WATERSHED	SFB	AL/GL	3'-0"	7'-0"	1 3/4"	SF3	AL/GL	A601/5	A601/5		13		
G210	AG OFFICE	SFB	AL/GL	3'-0"	7'-0"	1 3/4"	SF3	AL/GL	A601/5	A601/5		10		
G211	ED. & OUT REACH	SFB	AL/GL	3'-0"	7'-0"	1 3/4"	SF3	AL/GL	A601/5	A601/5		13		
G212	INSECT OFFICE	SFA	AL/GL	3'-0"	7'-0"	1 3/4"	SF2	AL/GL	A601/5	A601/5		13		
G213	CHEM. STOR.	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F2	HM	A601/2	A601/2		1		
G214	BULK STORAGE	PA	SC/W/D	[2]3'-0"	7'-0"	1 3/4"	F1	HM	A601/3	A601/3		4	45MINS	
G214B	BREAK AREA	PA	SFB	3'-0"	7'-0"	1 3/4"	CW2	AL/GL	MANUF. STD.			TH1	10	CARD ACCESS
G218	IT	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F2	HM	A601/2	A601/2		1		
G219	FILES/ STORAGE	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F2	HM	A601/2	A601/2		1		
G300A	FORENSICS GARAGE	PA	HM	[2]3'-0"	7'-0"	1 3/4"	F1	HM	A601/3	A601/3		16	45MINS	
G300B	FORENSICS GARAGE	PA	HM	3'-0"	7'-0"	1 3/4"	F1	HM	A601/3	A601/3		9	CARD ACCESS	
G300C	FORENSICS GARAGE	OHI	STL	10'-0"	10'-0"	2"			EXISTING			TH1	18	INSTALL DOOR ON EXISTING FRAME/TRACK
G301	FORENSICS STORAGE	PA	HM	3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		17	CARD ACCESS	
G400	ADMIN	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F3	HM	A601/9	A601/9		11	CARD ACCESS	
G402	CONFERENCE RM.	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		12		
G403	BREAK AREA	PC	SC/W/D	3'-0"	7'-0"	1 3/4"	F2	HM	A601/13	A601/13		19		
G404	ELEC. SHOP	PA	HM	3'-0"	7'-0"	1 3/4"	F1	HM	A601/3	A601/3		12		
G405	PLUMBING SHOP	PA	HM	3'-0"	7'-0"	1 3/4"	F1	HM	A601/3	A601/3		12		
G406A	CARPENTER SHOP	PA	HM	3'-0"	7'-0"	1 3/4"	F1	HM	A601/1	A601/1		12		
G406B	CARPENTER SHOP	PA	HM	3'-0"	7'-0"	1 3/4"	F1	HM	A601/3	A601/3		12		
G406C	CARPENTER SHOP	PA	HM	3'-0"	7'-0"	1 3/4"	F1	HM	A601/3	A601/3		12	CARD ACCESS	
G406D	CARPENTER SHOP	PA	HM	[2]3'-0"	7'-0"	1 3/4"	F1	HM	A601/8	A601/8	TH1	9	CARD ACCESS	
G407	HVAC SHOP	PA	HM	3'-0"	7'-0"	1 3/4"	F1	HM	A601/3	A601/3		12		
G408	STOR.	PA	SC/W/D	3'-0"	7'-0"	1 3/4"	F2	HM	A601/2	A601/2		2		
G409	OFFICE	B	AL/GL	3'-0"	7'-0"	1 3/4"	SF3	AL/GL	A601/5	A601/5		13		
G410	OFFICE	B	AL/GL	3'-0"	7'-0"	1 3/4"	SF3	AL/GL	A601/5	A601/5		13		
TMG 1	MEN'S TOILET ROOM	PA	SC/W/D	3'-0"										



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

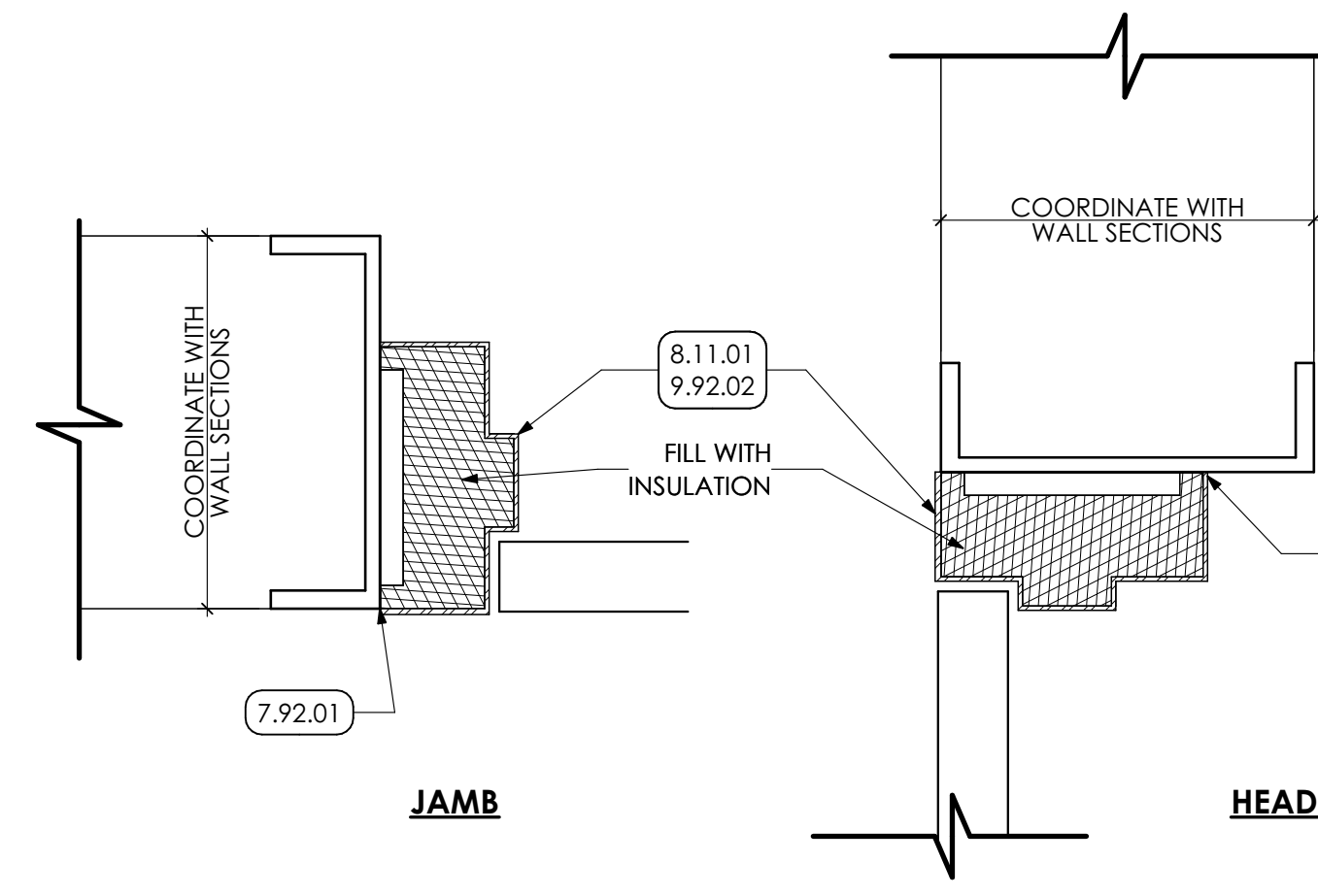


2 DOOR HEAD/JAMB DETAIL
SCALE: 3" = 1'-0"

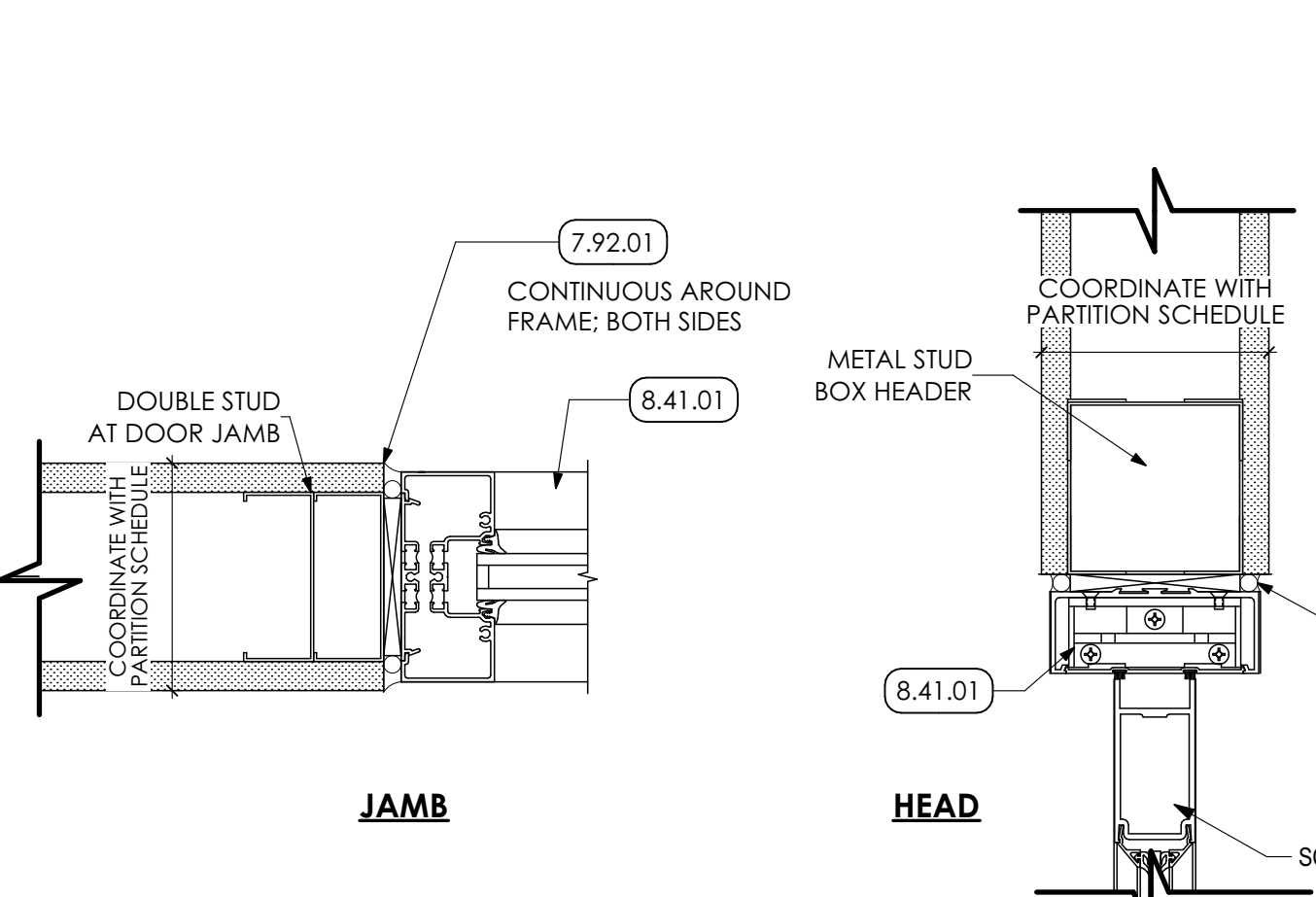


3 DOOR HEAD/JAMB DETAIL
SCALE: 3" = 1'-0"

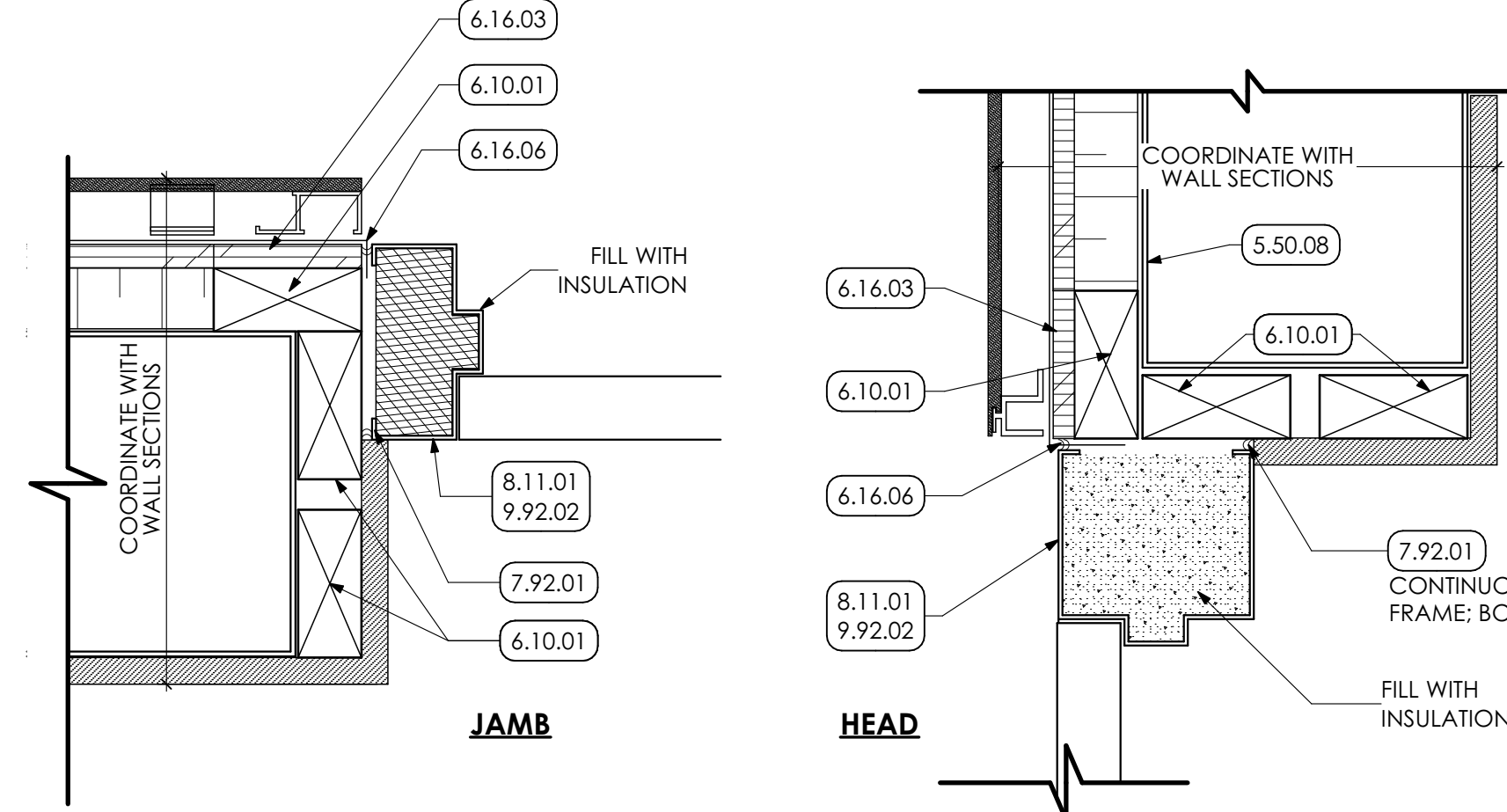
- KEY NOTES**
- 04 MASONRY**
 - 4.22 CMU MASONRY | SPEC 042000
 - 4.20.02 MASONRY LINTEL FOR WIDTH OF OPENING. COORDINATE WITH STRUCTURAL DRAWINGS.
 - 05 METALS**
 - 5.12 STRUCTURAL STEEL FRAMING | SPEC 051200
 - 5.12.01 STEEL COLUMN: COORDINATE WITH STRUCTURAL DRAWINGS.
 - 5.50 METAL FABRICATIONS | SPEC 055000 | SPEC 055213**
 - 5.50.08 METAL BOX HEADER COORDINATE WITH STRUCTURAL DRAWINGS.
 - 06 WOODS, PLASTICS AND COMPOSITES**
 - 4.10 ROUGH CARPENTRY | SPEC 061000
 - 4.10.01 2X WOOD BLOCKING
 - 6.16 SHEATHING | SPEC 061600
 - 6.16.03 1/2" PLYWOOD FILLER
 - 6.16.06 EXTEND FLASHING TAPE INTO OPENING
 - 07 THERMAL AND MOISTURE PROTECTION**
 - 7.92 JOINT SEALANTS | SPEC 079200
 - 7.92.01 CONTINUOUS SEALANT
 - 08 OPENINGS**
 - 8.11 HOLLOW METAL DOORS AND FRAMES | SPEC 081113
 - 8.11.01 SCHEDULED DOOR AND FRAME
 - 8.41 ALUMINUM STOREFRONTS | SPEC 084113
 - 8.41.01 SCHEDULED ALUMINUM FRAMED STOREFRONT SYSTEM
 - 09 FINISHES**
 - 9.92 INTERIOR PAINTING | SPEC 099123
 - 9.92.02 PREP. PRIME, PAINT (TWO (2) COATS) ENTIRE DOOR FRAME AND DOOR.
 - 12 FURNISHINGS**
 - 12.36.1 SOLID SURFACE COUNTERTOP | SPEC 123661.16
 - 12.36.03 SOLID SURFACE WINDOW SILL FOR WIDTH OF OPENING.



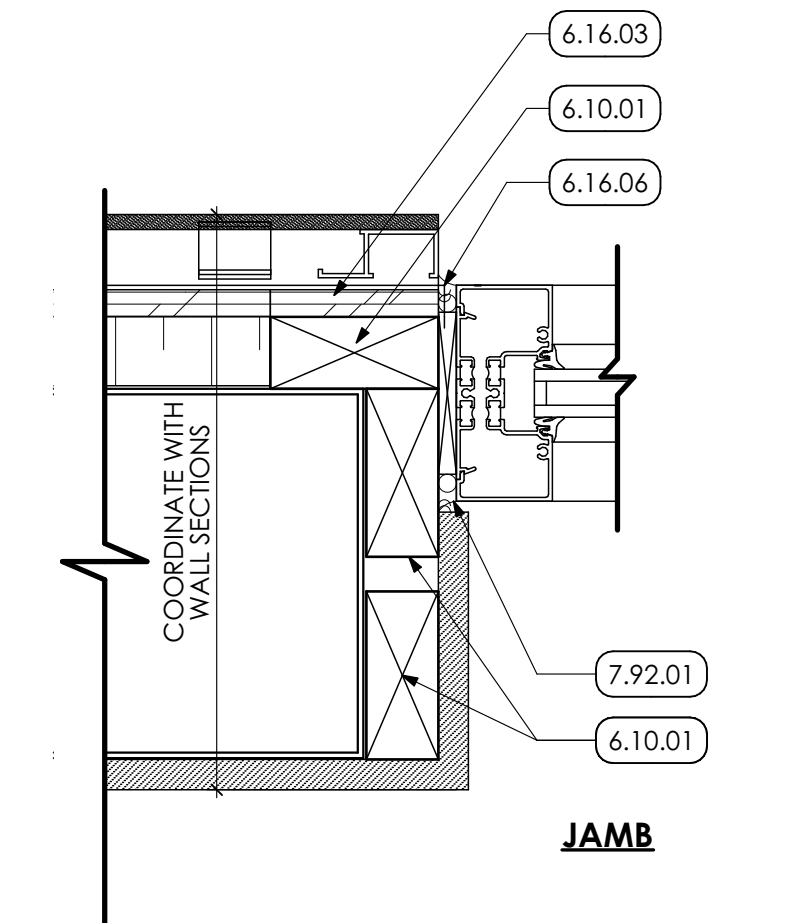
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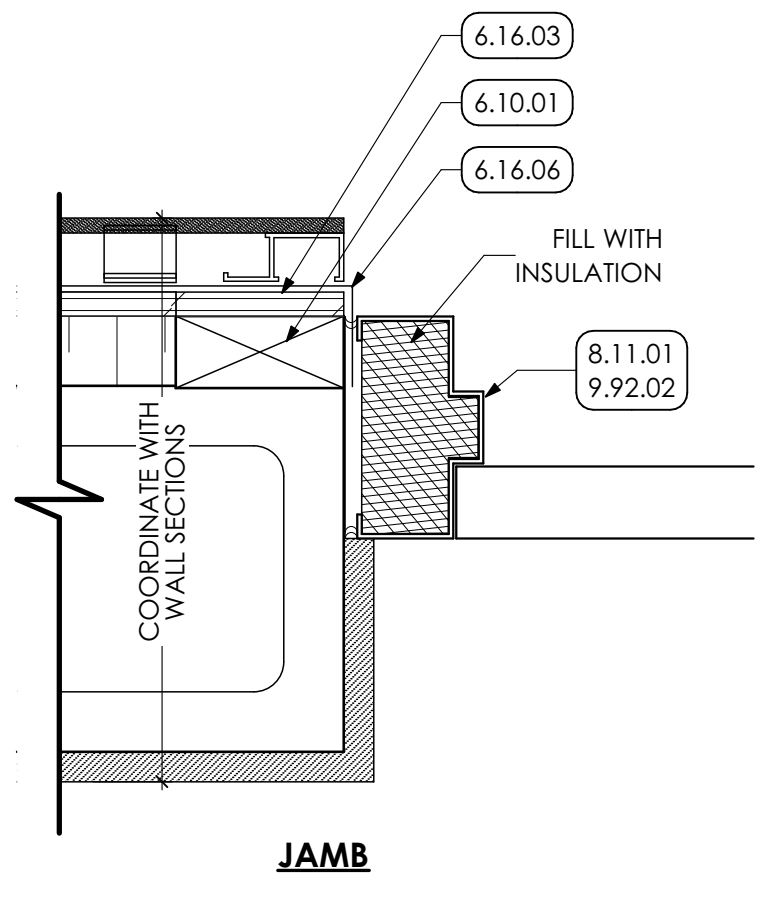
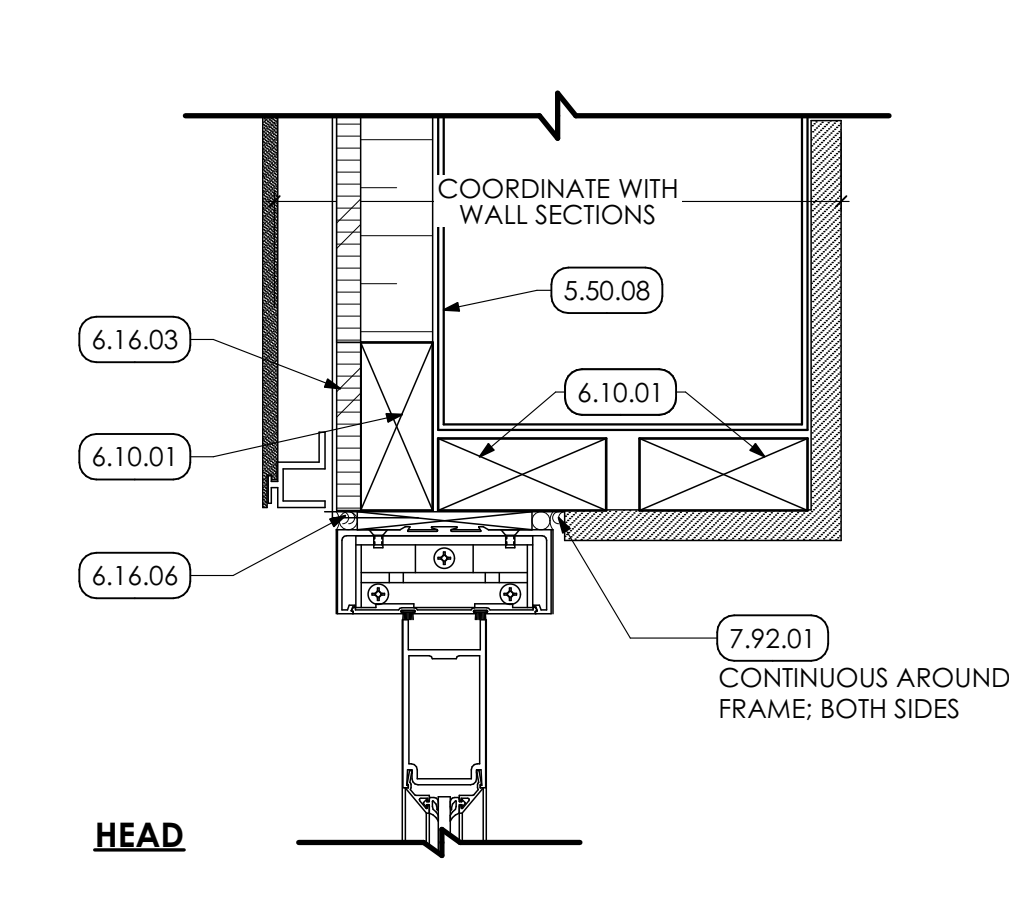
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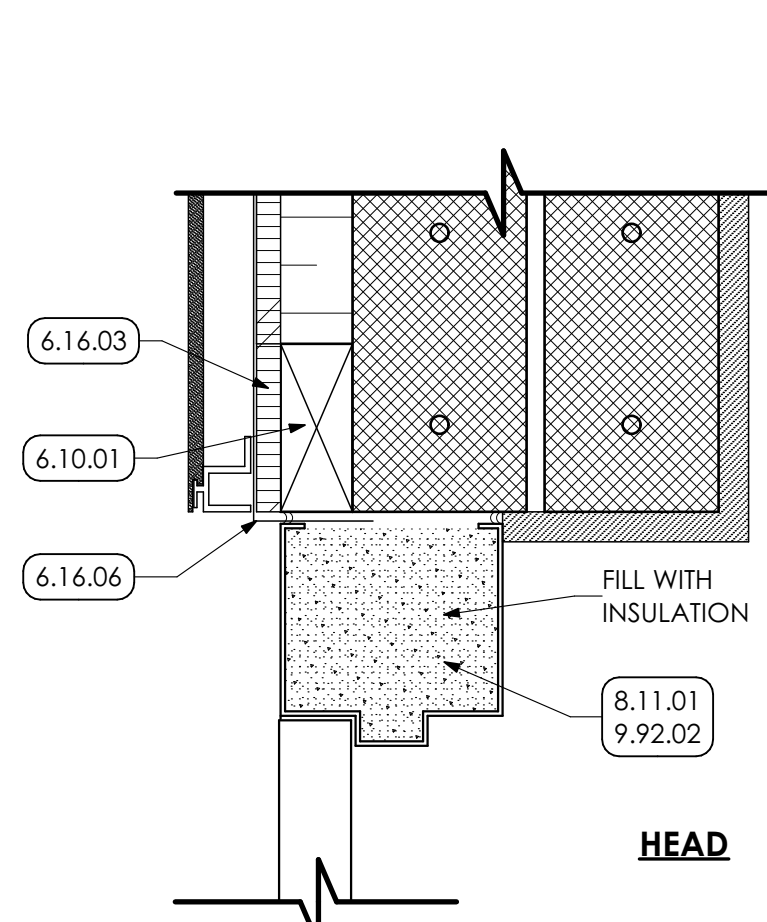
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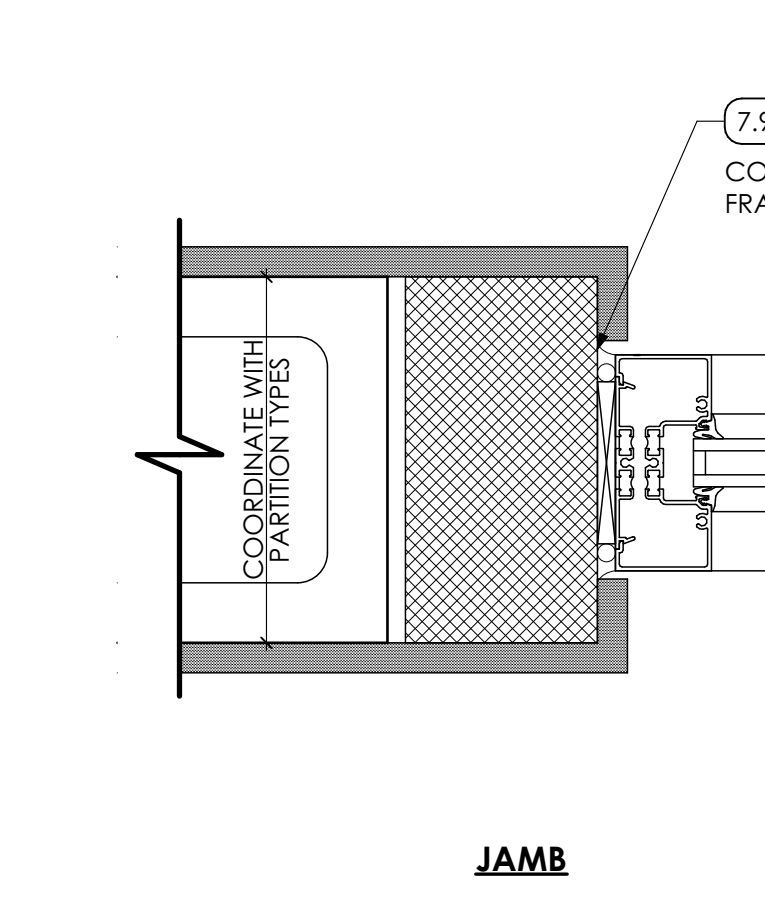
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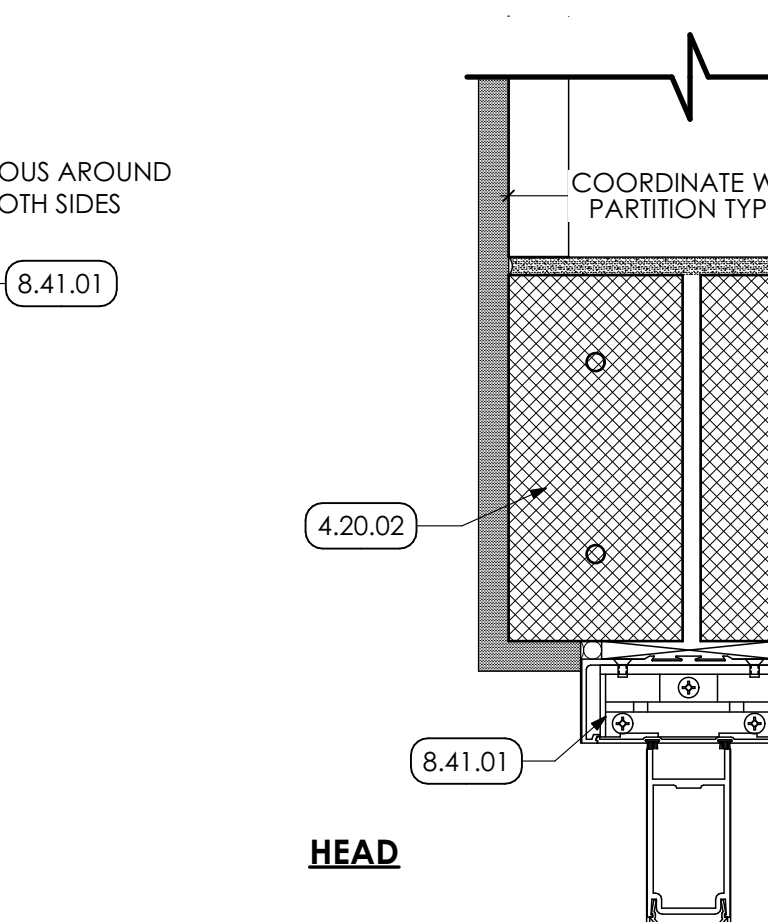
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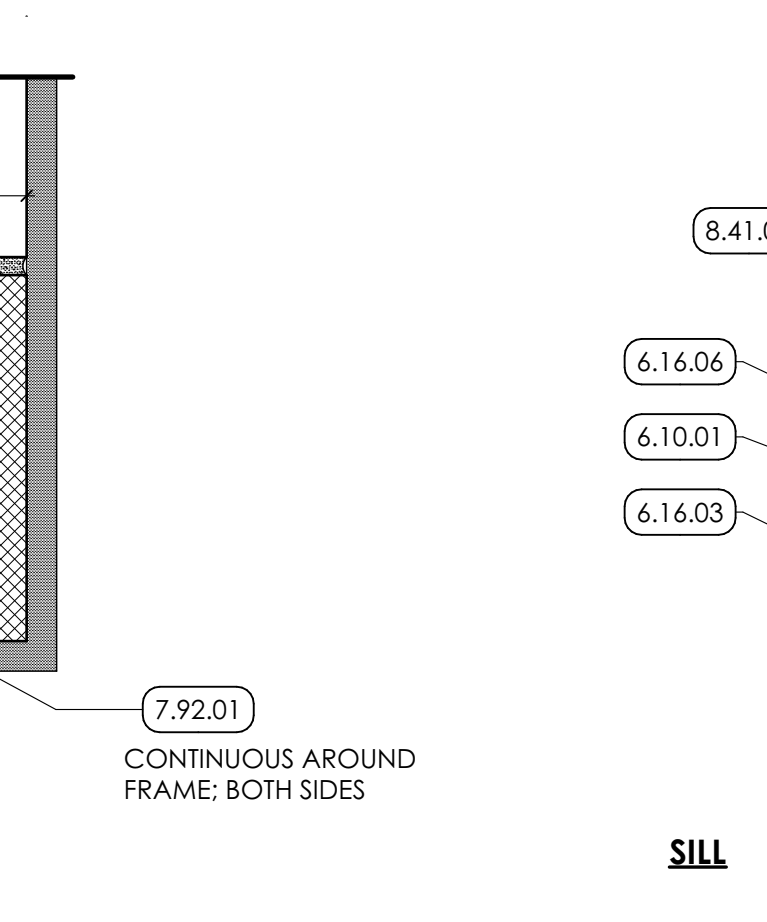
9 DOOR HEAD/JAMB DETAIL
SCALE: 3" = 1'-0"



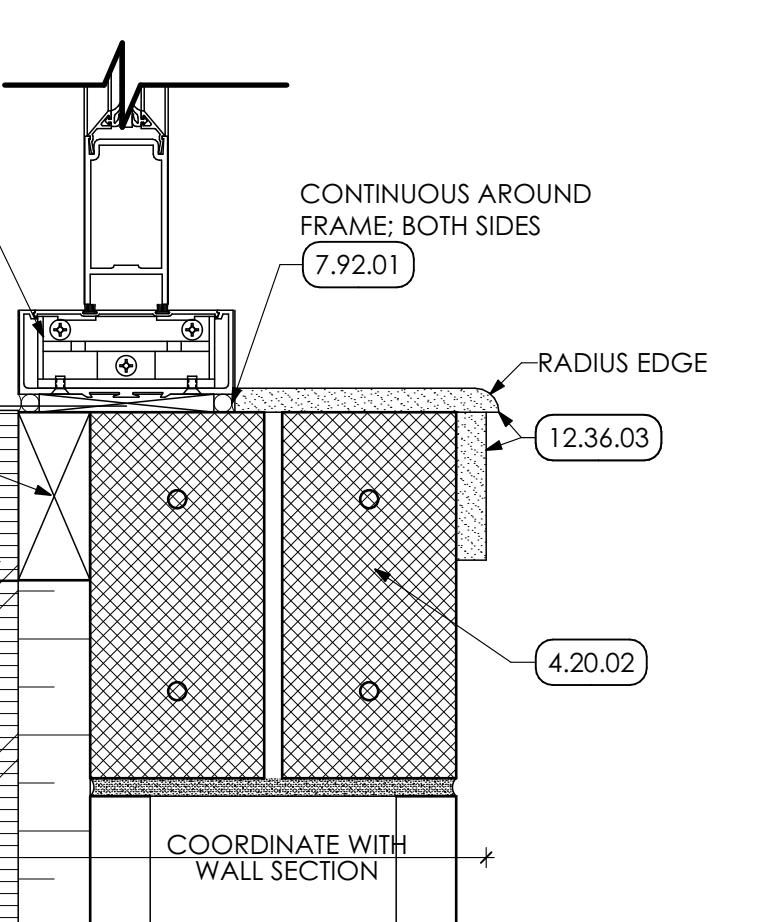
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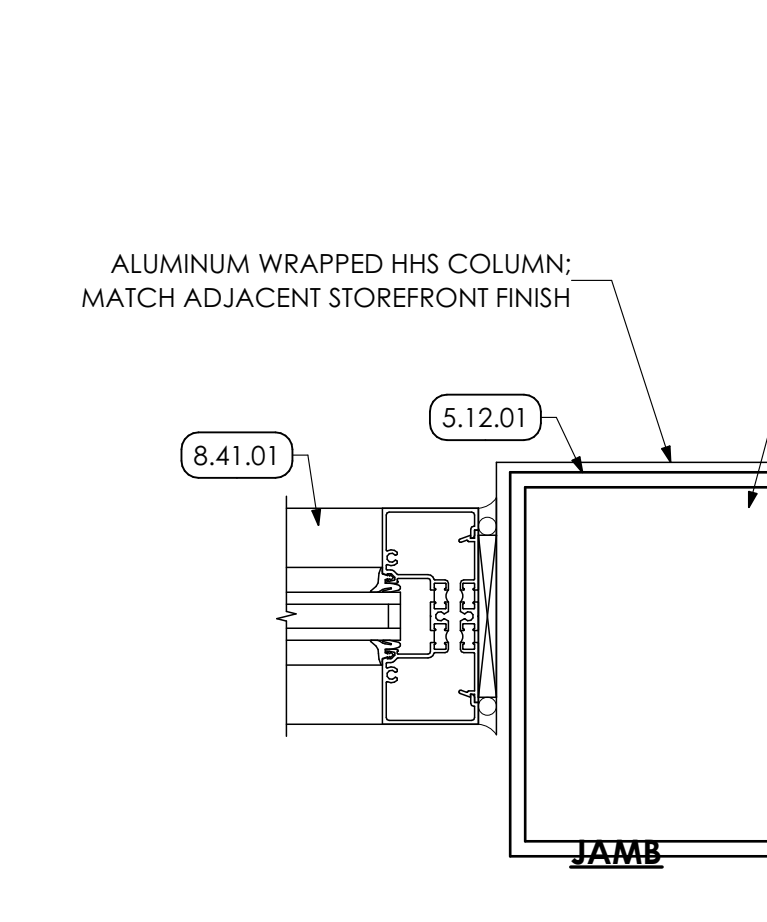
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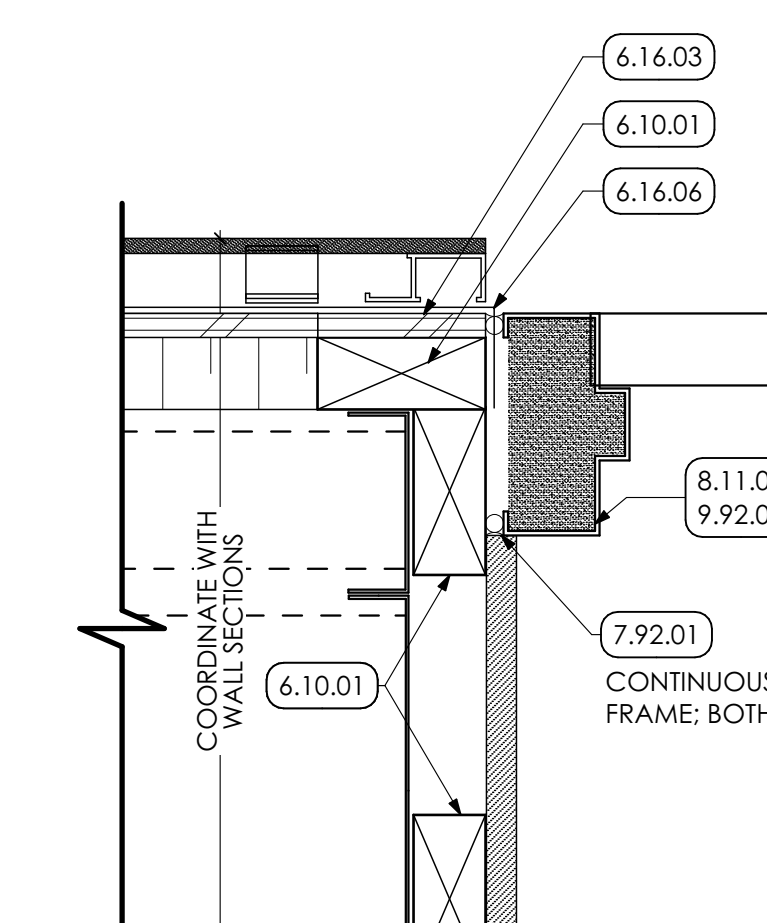
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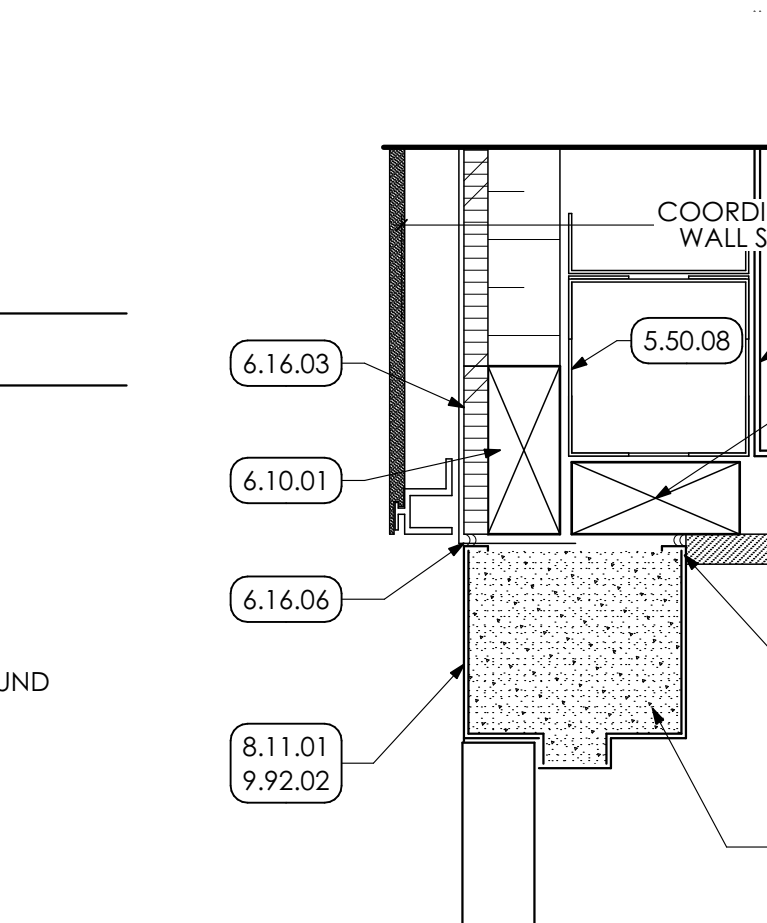
13 HIGH WINDOW JAMB DETAIL
SCALE: 3" = 1'-0"



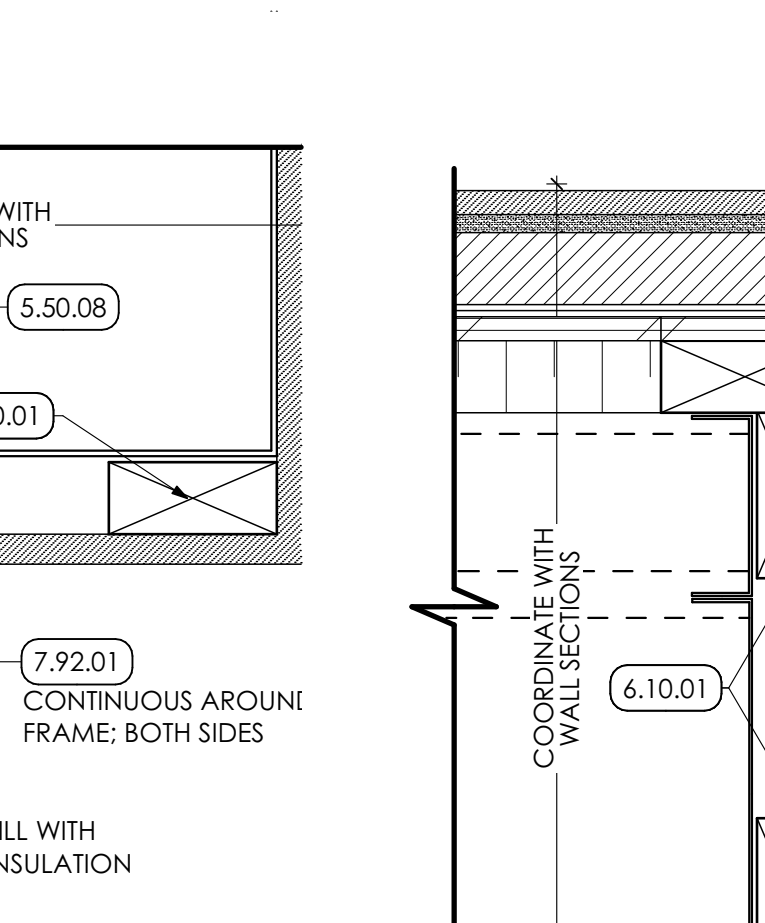
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SCALE: 3" = 1'-0"



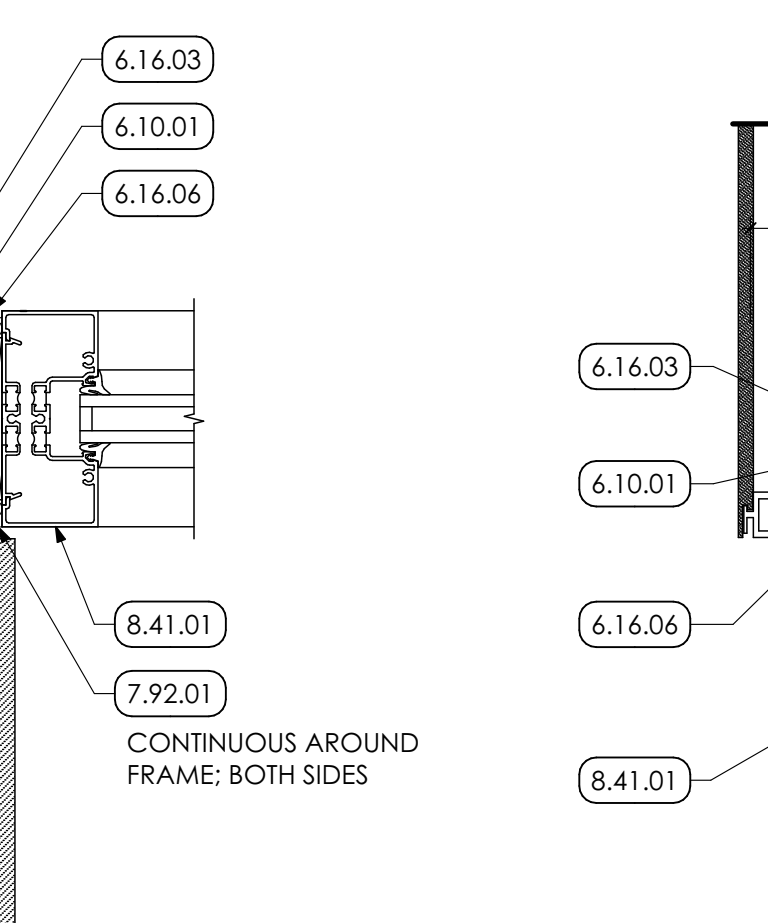
16 DOOR HEAD/JAMB DETAIL
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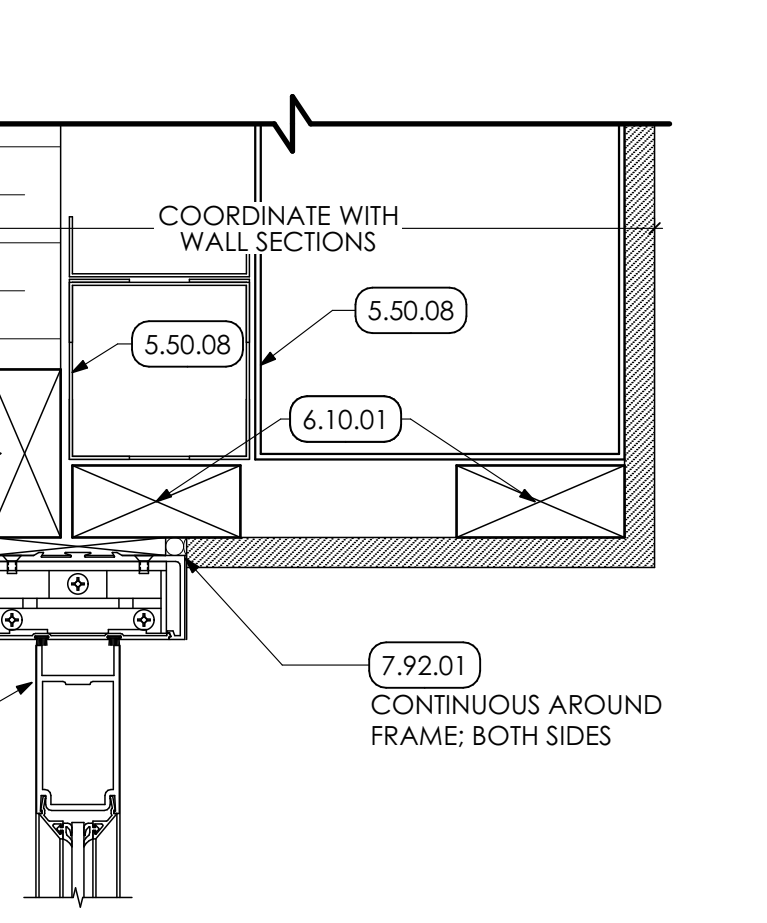
17 DOOR HEAD/JAMB DETAIL
SCALE: 3" = 1'-0"



18 DOOR HEAD/JAMB DETAIL
SCALE: 3" = 1'-0"



19 DOOR HEAD/JAMB DETAIL
SCALE: 3" = 1'-0"



20 DOOR HEAD/JAMB DETAIL
SCALE: 3" = 1'-0"



21 DOOR HEAD/JAMB DETAIL
SCALE: 3" = 1'-0"

GENERAL NOTE
1. STOREFRONT WINDOW DETAILS ARE SIMILAR IN NATURE.

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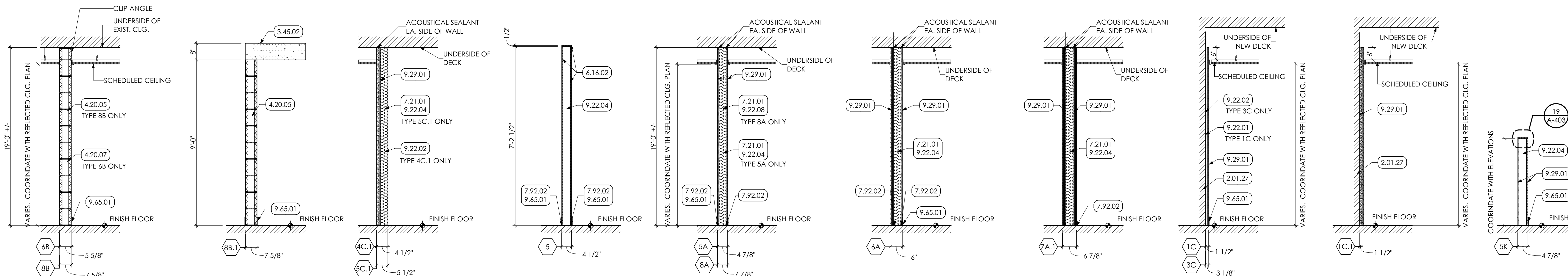
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SHEET SCALE: 1
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING

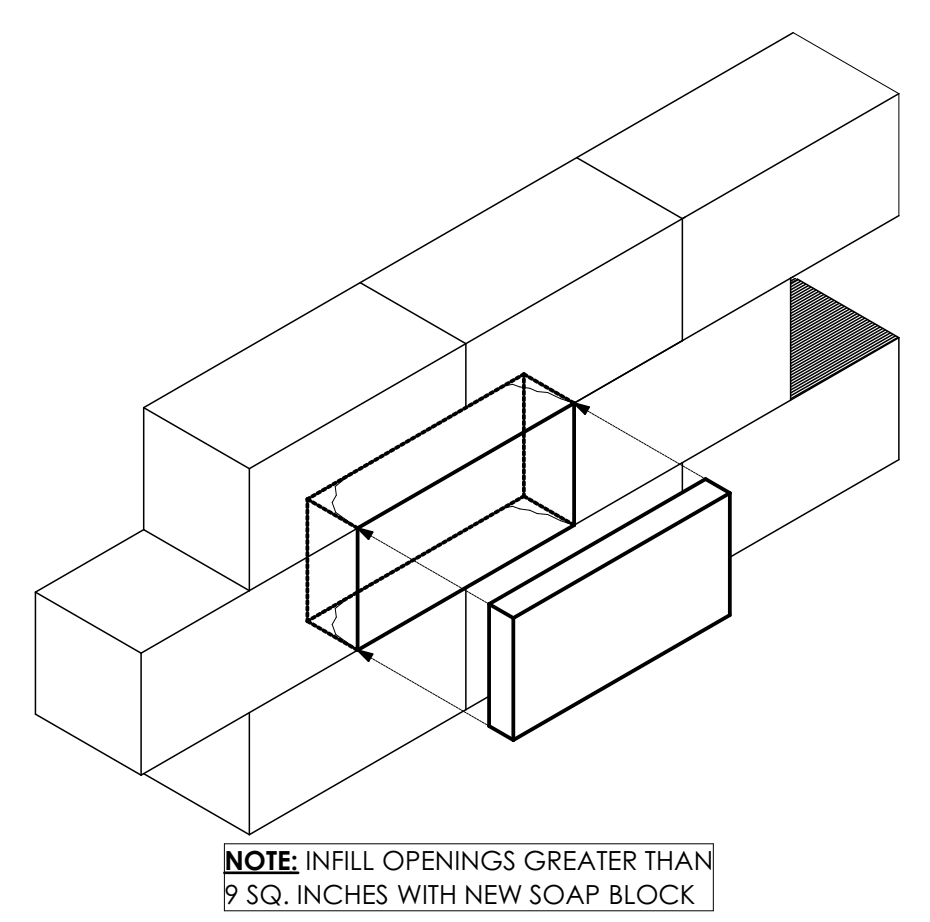
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SHEET TITLE:
DOOR/WINDOW DETAILS

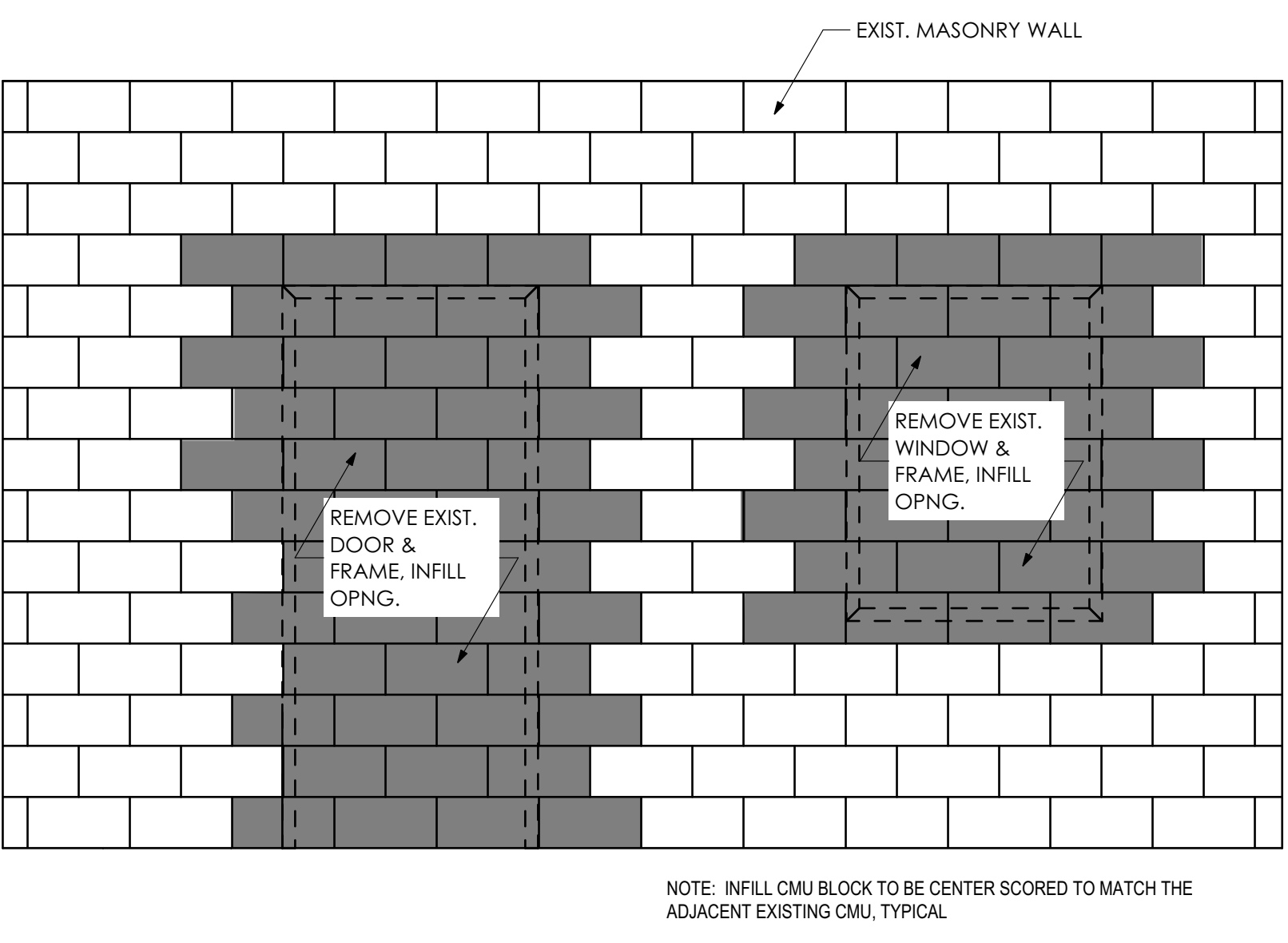
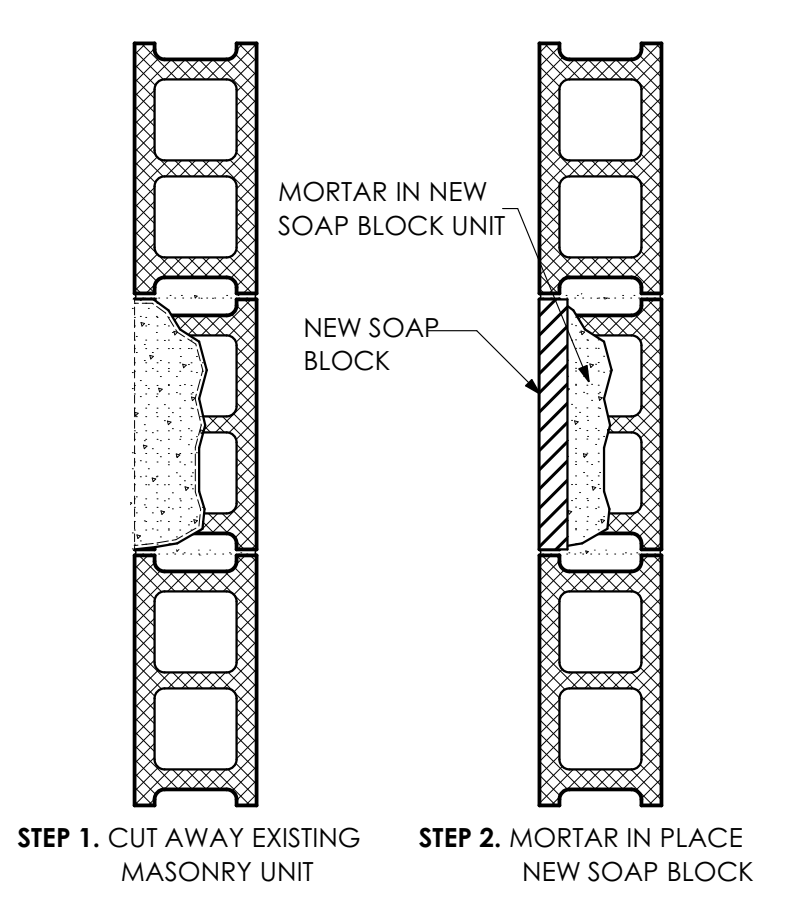
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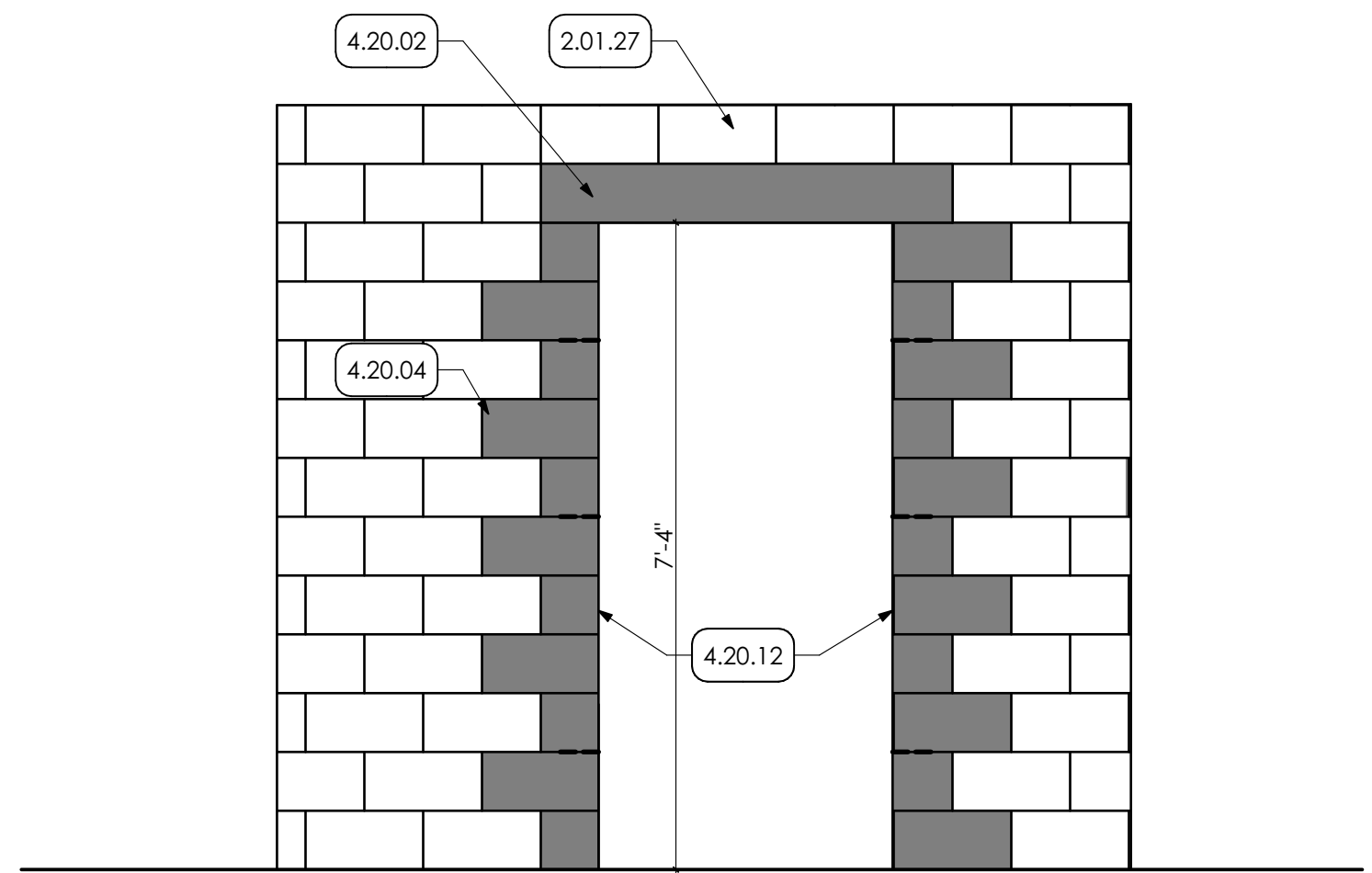
1 PARTITION TYPES
SCALE: 1/2" = 1'-0"



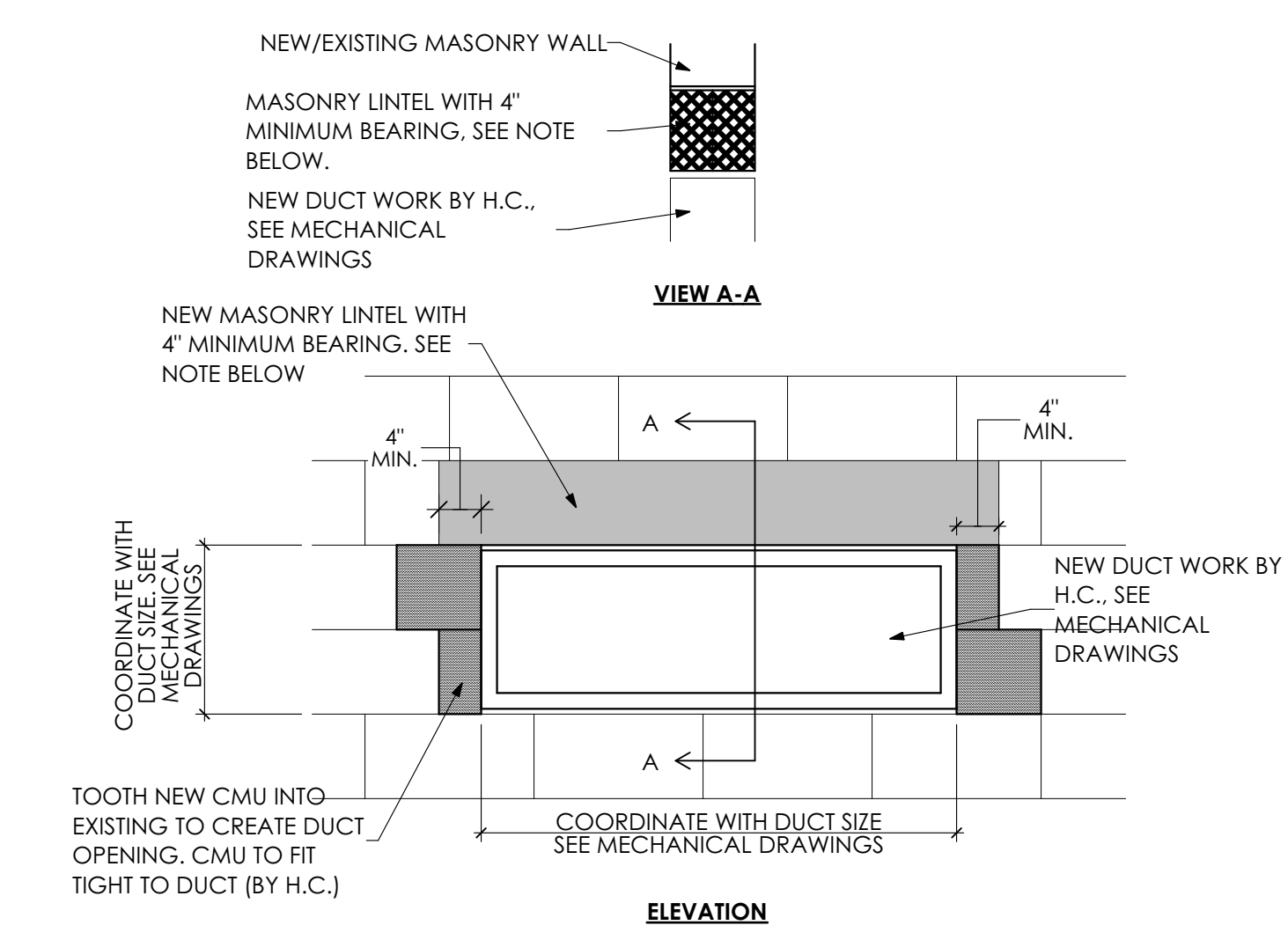
2 SOAP BLOCK DETAIL
SCALE: 1" = 1'-0"



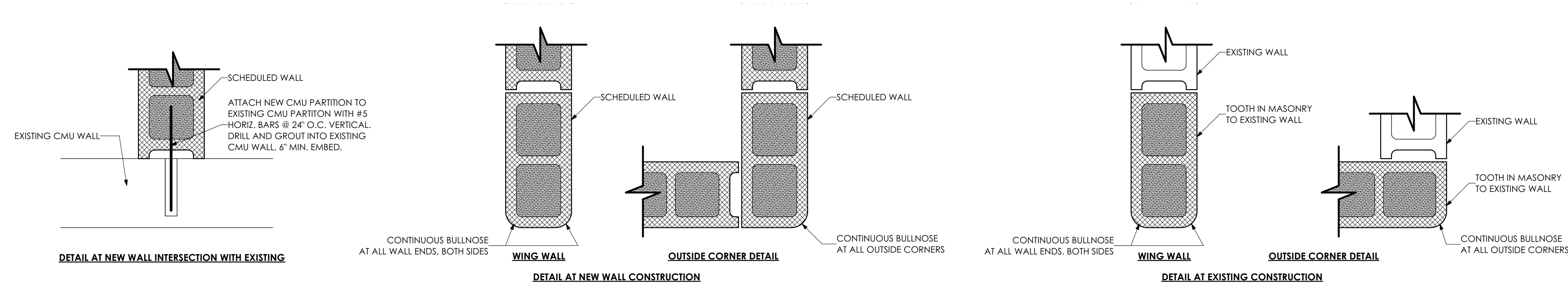
3 CMU INFILL DETAIL
SCALE: 1/2" = 1'-0"



4 TYPICAL CMU WALL OPENING
SCALE: 1/2" = 1'-0"



NOTES:
1. AT EXISTING CMU PARTITION, HC TO PROVIDE AND INSTALL MASONRY LINTEL.
2. AT NEW CMU PARTITION, GC TO PROVIDE MASONRY LINTEL, HC TO PROVIDE OPENING SIZE AND LOCATION TO GC.



6 TYPICAL CMU WALL END DETAILS
SCALE: 1 1/2" = 1'-0"

5 DUCT OPENINGS IN CMU
SCALE: 3/4" = 1'-0"

- KEY NOTES**
- 02 DEMOLITION**
 - 2.01 EXISTING CONDITIONS**
2.01.27 EXISTING CMU WALL TO REMAIN.
 - 03 CONCRETE**
 - 3.45 PRECAST ARCHITECTURAL CONCRETE COORDINATE WITH STRUCTURAL DRAWINGS**
3.45.02 8" PRECAST CONCRETE PLANK
 - 04 MASONRY**
 - 4.22 CMU MASONRY | SPEC 042000**
4.20.02 MASONRY LINTEL FOR WIDTH OF OPENING. COORDINATE WITH STRUCTURAL DRAWINGS.
4.20.04 INFILL EXISTING OPENING WITH CMU TO MATCH EXISTING WALL THICKNESS (ASSUMED TO BE 8") FINISH FLUSH WITH ADJACENT SURFACE. TOOTH NEW CMU INTO EXISTING.
4.20.05 8" CMU GROUTED SOLID. COORDINATE WITH STRUCTURAL DRAWINGS.
4.20.07 6" CMU
4.20.12 BULL NOSE CORNERS
 - 06 WOODS, PLASTICS AND COMPOSITES**
 - 6.16 SHEATHING | SPEC 061600**
6.16.02 1/2" PLYWOOD SHEATHING
 - 07 THERMAL AND MOISTURE PROTECTION**
 - 7.21 THERMAL INSULATION | SPEC 072100**
7.21.01 MINERAL WOOL SOUND ATTENUATING BATT INSULATION
 - 7.92 JOINT SEALANTS | SPEC 079200**
7.92.02 SEALANT ON EACH SIDE OF WALL
 - 09 FINISHES**
 - 9.22 NON-STRUCTURAL METAL FRAMING | SPEC 092216**
9.22.01 7/8" METAL FURRING CHANNELS AT 16" O.C.
9.22.02 2 1/2" METAL STUD AT 16" O.C.
9.22.04 3 5/8" METAL STUD FRAMING AT 16" o.c.
9.22.08 6" METAL STUDS AT 16" O.C.
 - 9.29 GYPSUM BOARD | SPEC 092900**
9.29.01 5/8" GYPSUM BOARD
 - 9.65 RESILIENT BASE | SPEC 096513**
9.65.01 4" HIGH RUBBER COVE BASE CONTINUOUS FOR PERIMETER OF ROOM OR CORRIDOR.

- GENERAL SHEET NOTES**
1. PARTITION KEY INDICATES MAJOR TYPES OF PARTITIONS ONLY. FOR ISOLATED CONDITIONS, SEE NOTES AND DETAILS.
 2. FOR FINISHES, SEE FINISH SCHEDULE AND DRAWINGS IN A-700 SERIES.
 3. SEAL ALL PIPE AND DUCT PENETRATIONS THROUGH WALLS AND PARTITIONS (FOR SMOKE, ACOUSTICAL, AND FIRE STOP). SEALANT BY PRIME CONTRACTOR MAKING THE PENETRATION.
 4. DIMENSIONS NOTED DO NOT INCLUDE TILE, MORTAR OR VENEER PANELING.
 5. IN FINISHED SPACES, ALL PIPES, CONDUIT, DUCTS, ETC. SHALL BE CONCEALED AND INSTALLED WITHIN PARTITIONS WHERE POSSIBLE. AT CONDITIONS WHERE VERTICAL RUNS DO NOT FIT INTO PARTITION, PIPES, ETC. SHALL BE CONCEALED WITH GYPSUM BOARD AND CMU SURROUNDS. COORDINATE WITH MECH. AND ELEC. DRAWINGS FOR LIMITS.
 6. PROVIDE WOOD BLOCKING AS REQUIRED IN METAL STUD PARTITIONS FOR ANCHORING ALL ACCESSORIES AND DEVICES SHOWN AND/OR SPECIFIED (I.E. SHELF STANDARDS, GRAB BARS, ETC) COORDINATE WITH ACCESSORY MANUFACTURERS RECOMMENDATIONS.
 7. ALL CMU PARTITIONS WHICH DO NOT RECEIVE A TILE FINISH SHALL USE BULLNOSE UNITS AT ALL OUTSIDE CORNERS CONDITIONS, UNLESS OTHERWISE NOTED.
 8. PARTITIONS ABOVE OPENINGS SHALL BE THE SAME AS THE PARTITIONS BESIDE THE OPENING.
 9. PROVIDE CEMENT BOARD BEHIND CERAMIC TILE IN LIEU OF GYPSUM BOARD IN AREAS TO RECEIVE CERAMIC TILE. COORDINATE WITH FINISH PLAN.

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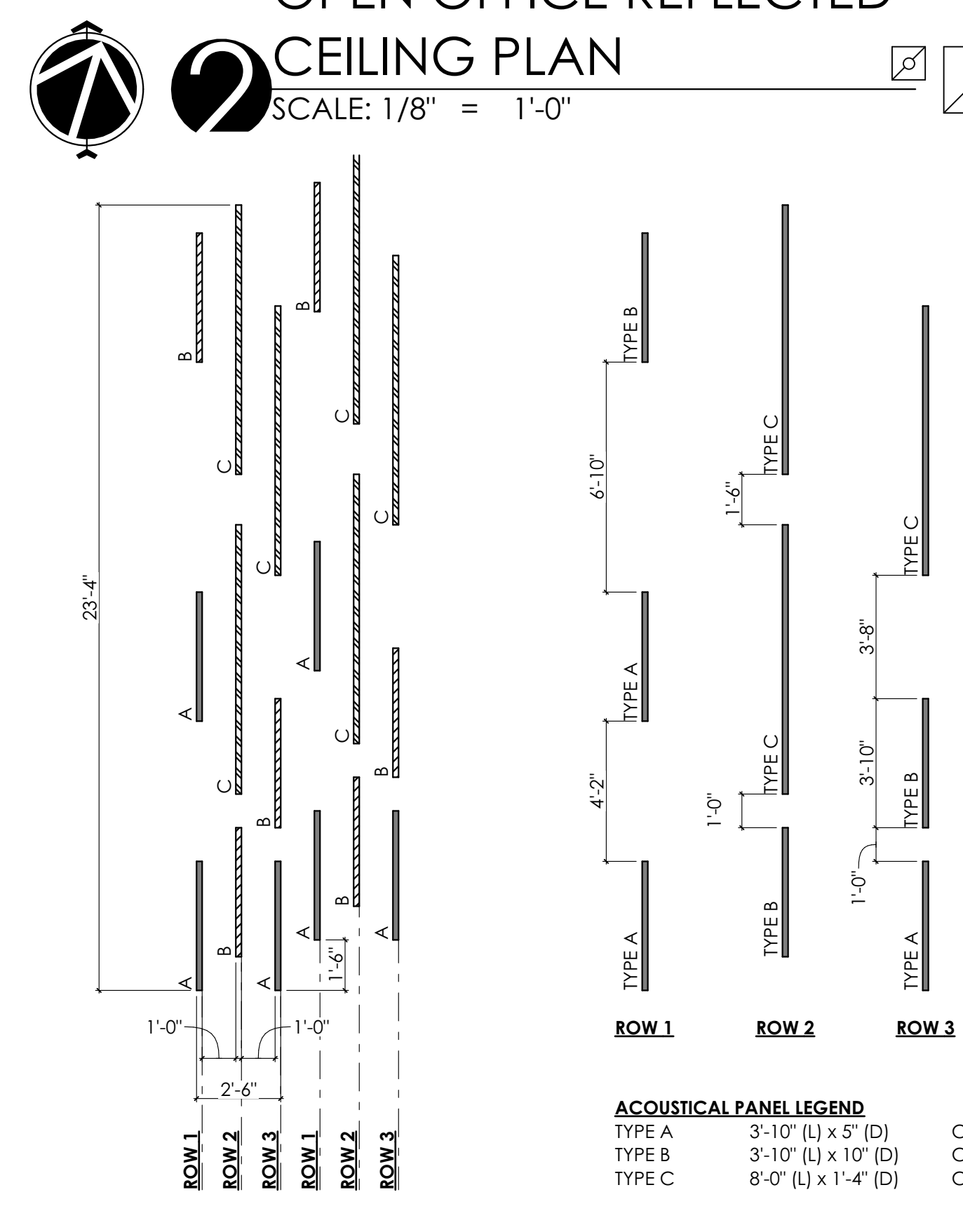
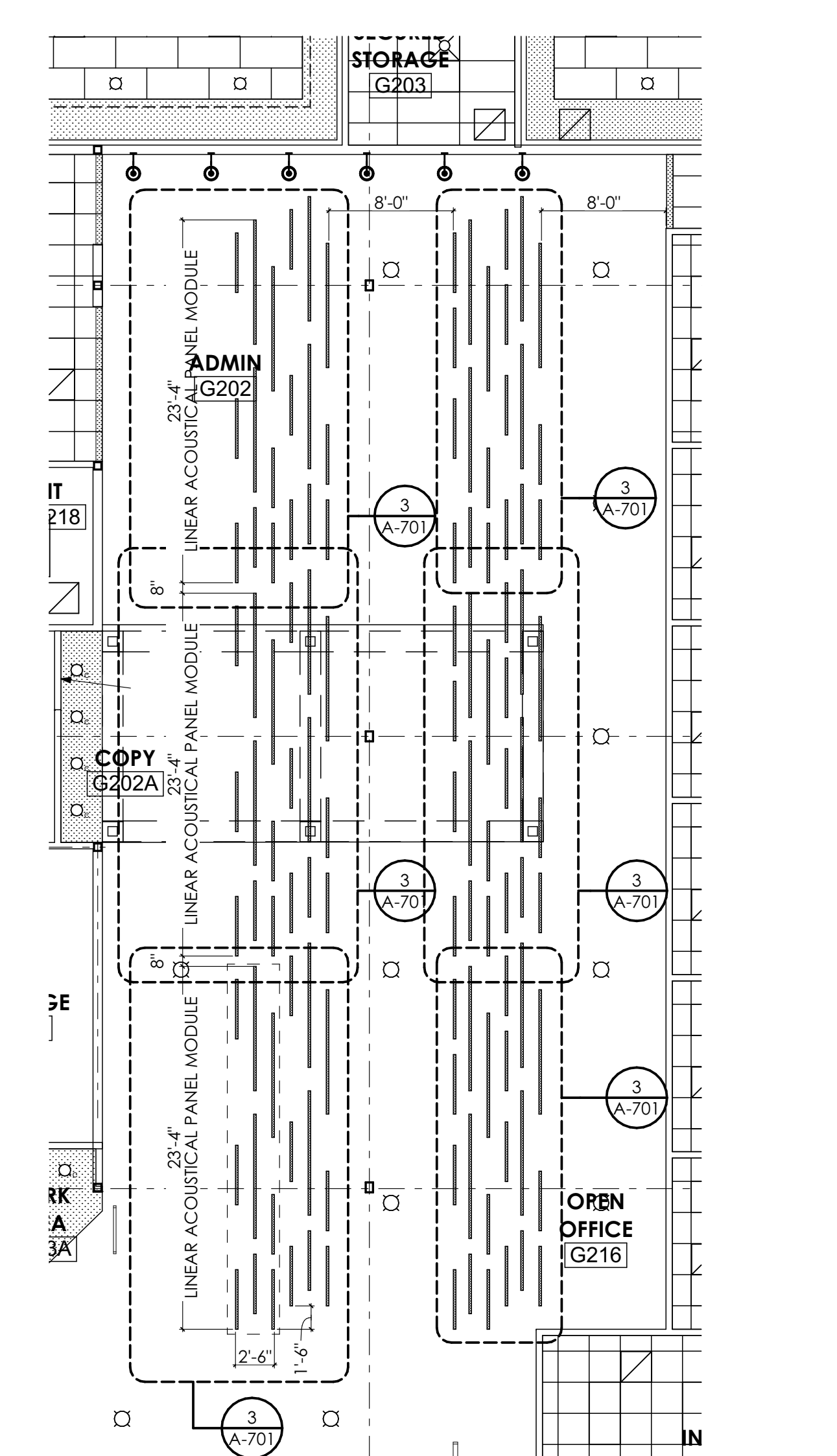
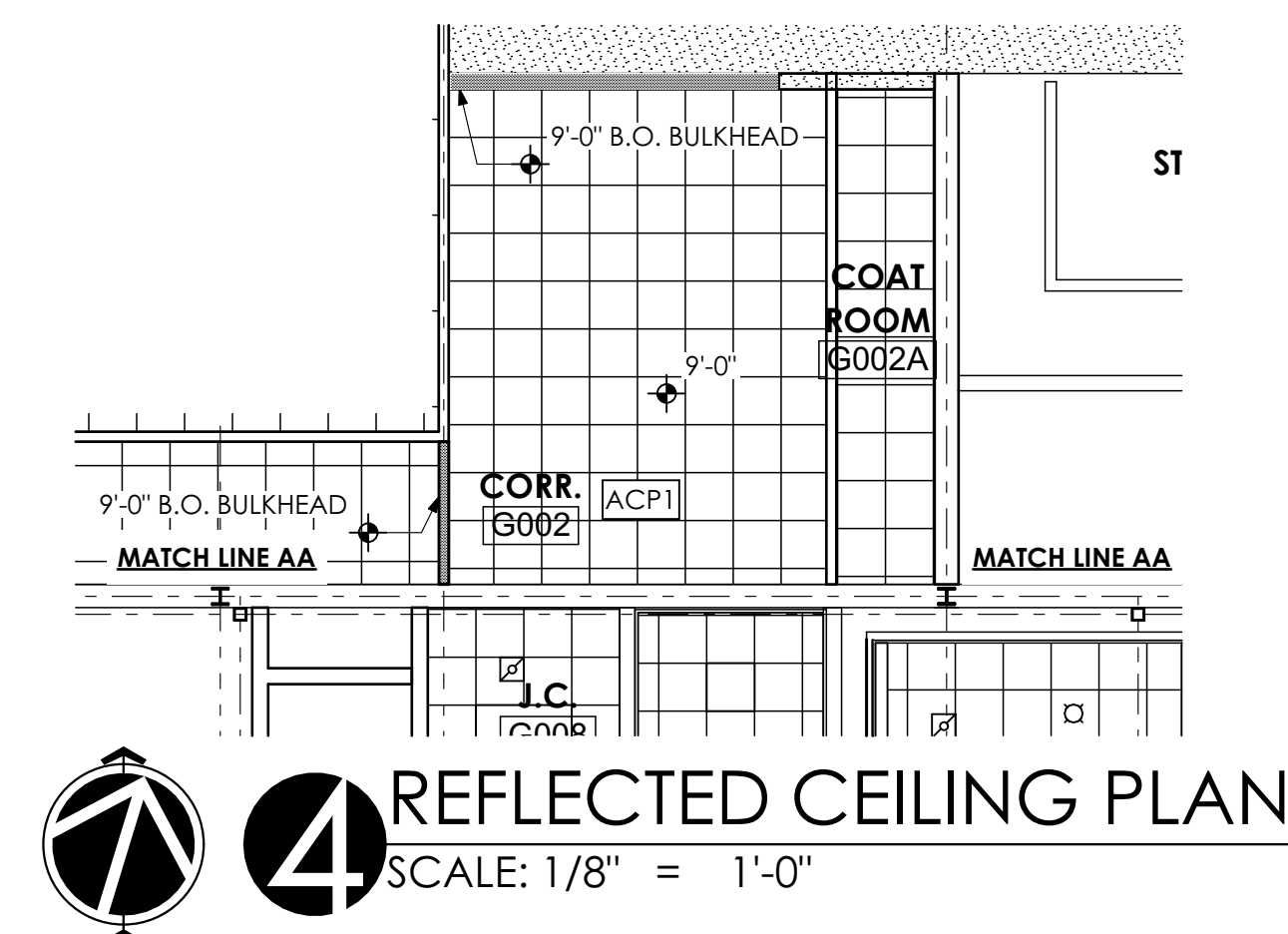
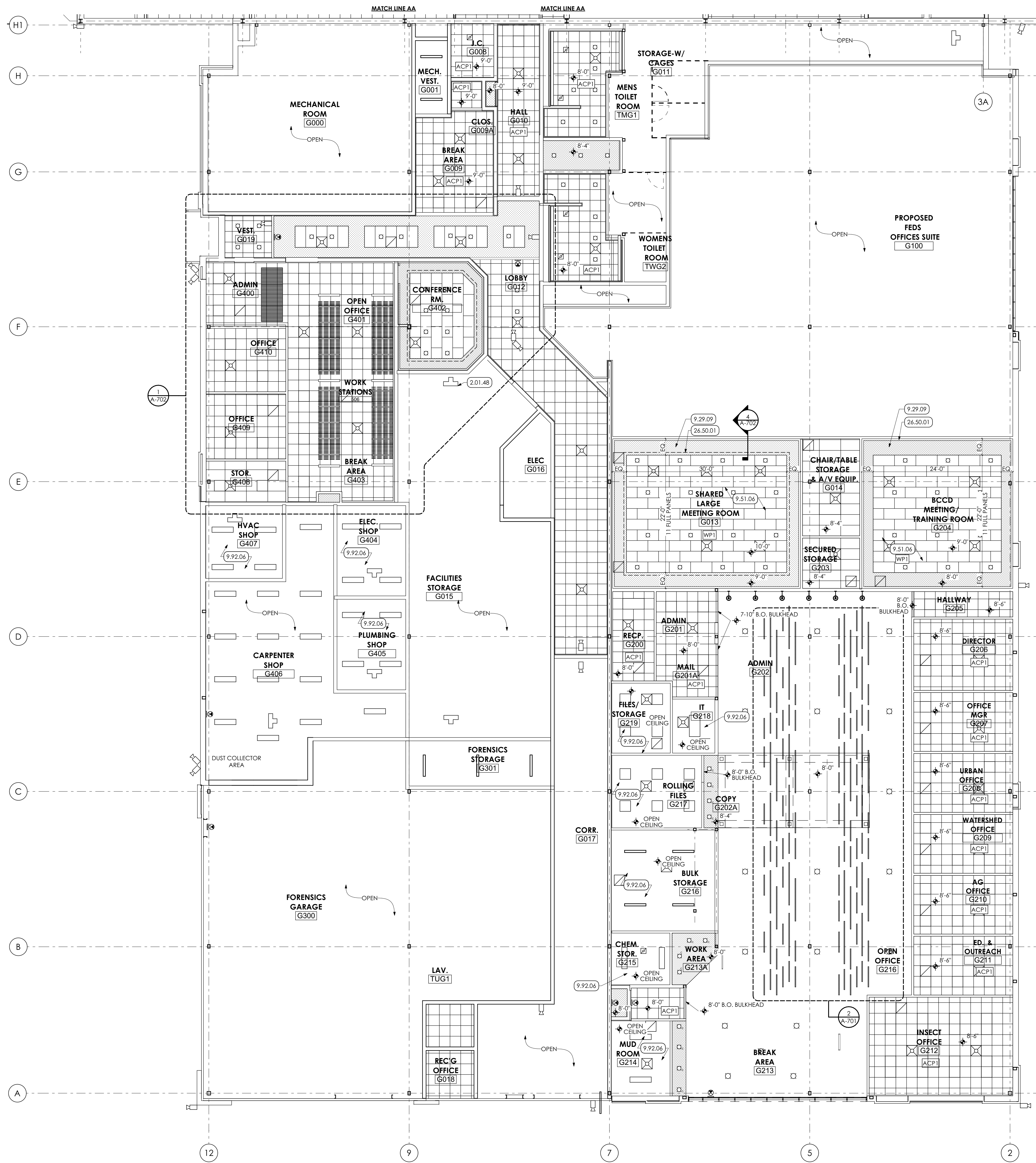
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SHEET TITLE:
PARTITION TYPES

A-603



- KEY NOTES**
- 01 GENERAL CONSTRUCTION**
 - 1.50 GENERAL CONSTRUCTION NOTE
 - 1.50.02 G.C. TO PROVIDE TWO (2) 8'-0" WIDE CHAIN LINK FENCE GATES WITH PADLOCK.
 - 02 DEMOLITION**
 - 2.01 EXISTING CONDITIONS
 - 2.01.48 EXISTING HEATER
 - 09 FINISHES**
 - 9.29 GYPSUM BOARD | SPEC 092900
 - 9.29.09 5/8" GYPSUM BOARD SOFFIT; PAINTED
 - 9.51 ACOUSTIC CEILINGS | SPEC 095100
 - 9.51.02 ACP-1 24" x 48" ACOUSTICAL CEILING PANEL AND METAL SUSPENSION GRID SYSTEM.
 - 9.51.03 ACP-2 24" x 24" ACOUSTICAL CEILING PANEL AND METAL SUSPENSION GRID SYSTEM.
 - 9.51.05 WP-2 SUSPENDED WOOD SLAT CEILING.
 - 9.51.06 WP-1 SUSPENDED WOOD PANEL CEILING.
 - 9.92 INTERIOR PAINTING | SPEC 099123
 - 9.92.06 PREP, PRIME, AND PAINT (TWO (2) COATS) UNDERSIDE OF CONCRETE PLANK MEZZANINE.
 - 26 ELECTRICAL | BY E.C.**
 - 26 WORK DESCRIBED IN THESE KEYNOTES IS THE RESPONSIBILITY OF THE E.C. UNLESS NOTED OTHERWISE. COORDINATE WITH ELECTRICAL DRAWING.
 - 26.50 LIGHTING**
 - 26.50.01 LINEAR SOFFIT COVE LIGHTING.
 - 32 EXTERIOR IMPROVEMENTS**
 - 32.20 SITEWORK
 - 32.20.01 EXCAVATE FOR CONSTRUCTION STAGING AREA. PROVIDE MINIMUM 8" OF AASHTO #2A STONE.
 - 32.92 TURF AND GRASSES | SPEC 329200
 - 32.92.05 AT THE COMPLETION OF THE WORK, REMOVE STONE AND BACKFILL WITH CLEAN FILL AND SEED ENTIRE AREA, BY G.C.

- REFLECTED CEILING PLAN GENERAL NOTES:**
1. UNLESS NOTED OTHERWISE, ALL DIMENSIONS ARE FROM FACE OF FINISH SURFACE.
 2. FIXTURES SHALL BE CENTERED WITHIN SOFFITS AND CEILING GRIDS UNLESS NOTED OTHERWISE.
 3. CEILING PANELS TO BE CENTERED IN ROOM UNLESS NOTED OR SHOWN OTHERWISE.
 4. SEE ELECTRICAL DRAWINGS FOR LIGHT TYPES AND SWITCHING.
 5. WHERE THERE IS A DISCREPANCY BETWEEN THE REFLECTED CEILING PLANS AND FIRE PROTECTION, MECHANICAL, FIRE ALARM, AND/OR LIGHTING PLANS THE ENGINEERED DRAWINGS TAKE PRECEDENT. EXCEPT IF LIGHTING LAYOUTS ARE IMPACTED, IN THAT CASE CONSULT WITH THE ARCHITECT.

- REFLECTED CEILING PLAN LEGEND**
- 2x2 ACOUSTICAL PANEL
[ACP1] (9.51.03)
 - 2x4 ACOUSTICAL PANEL
[ACP2] (9.51.02)
 - REGULAR CEILING
[WP1] (9.51.06)
 - WOODWORKS GRILLE
[WP2] (9.51.05)
 - GYPSUM BOARD CEILING / SOFFIT
PREP AND PAINT (TWO (2) COATS)
 - SECURITY CAMERA LOCATION:
COORDINATE W/ ELECTRICAL DWGS.
 - DIFFUSER, REGISTERS, AND GRILLES,
BY H.C. COORDINATE W/
MECHANICAL DRAWINGS
 - HEATERS, COORDINATE W/
MECHANICAL DRAWINGS

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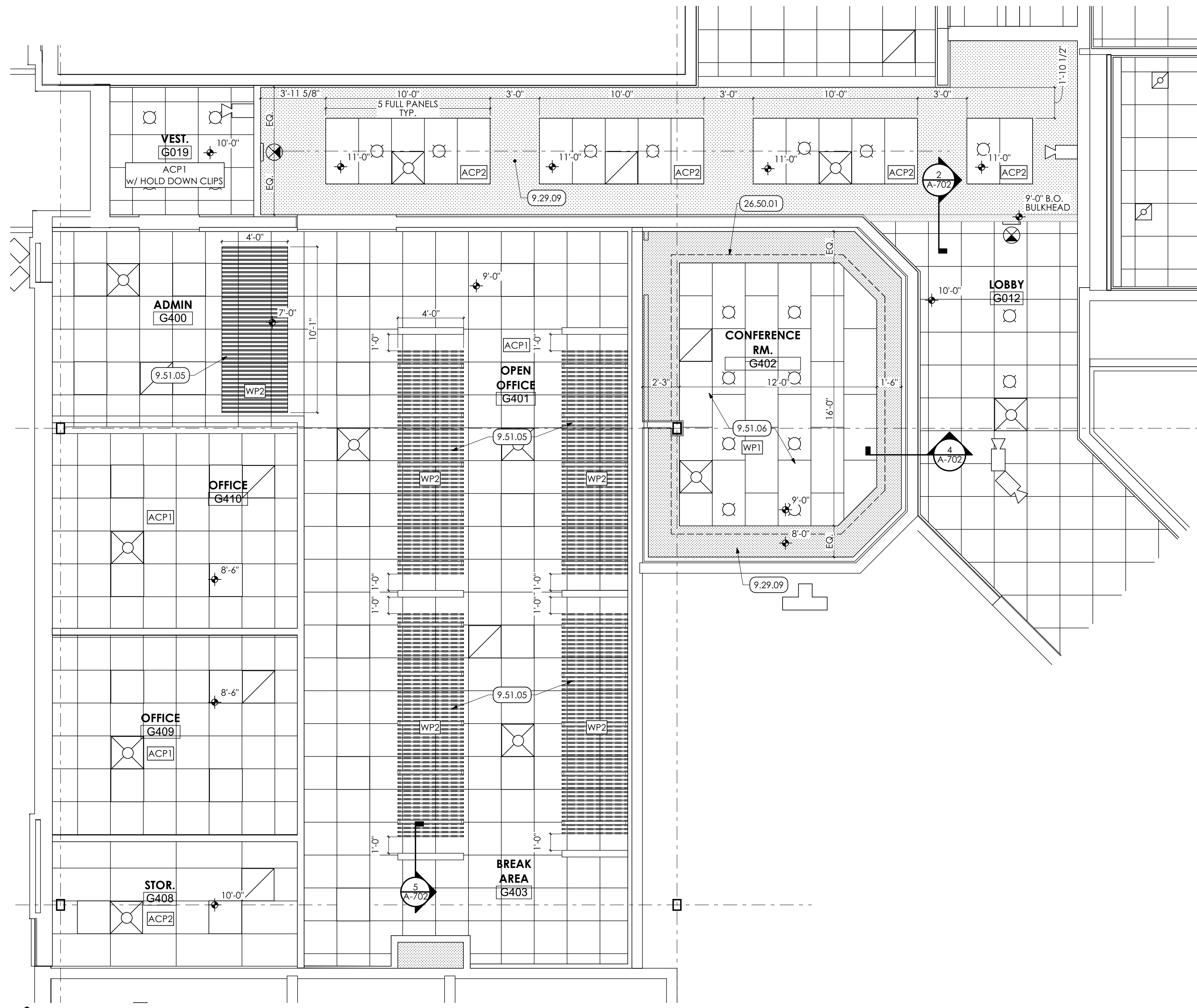
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ACoustical Panel Legend
TYPE A 3'-10" (L) x 5' (D) COLOR 01
TYPE B 3'-10" (L) x 10' (D) COLOR 02
TYPE C 8'-0" (L) x 1'-4" (D) COLOR 03

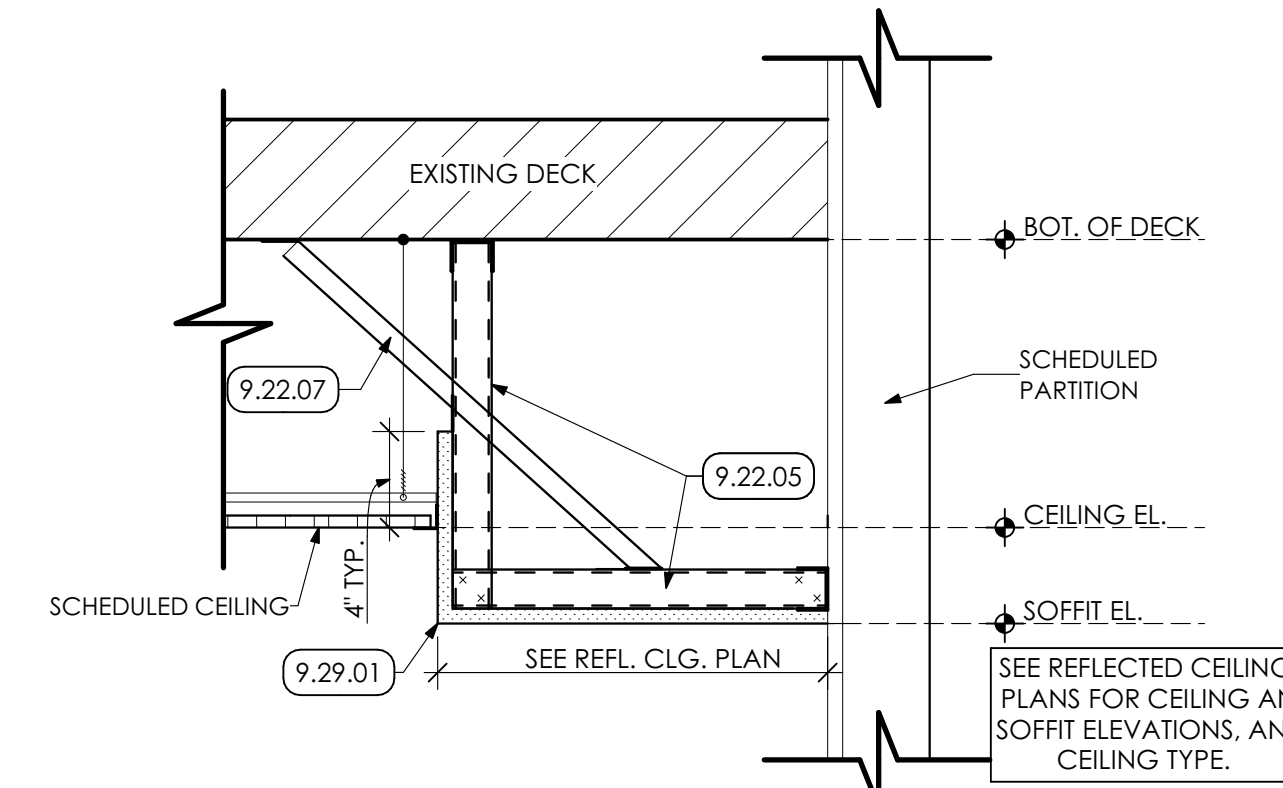
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SHEET TITLE:
REFLECTED CEILING PLAN

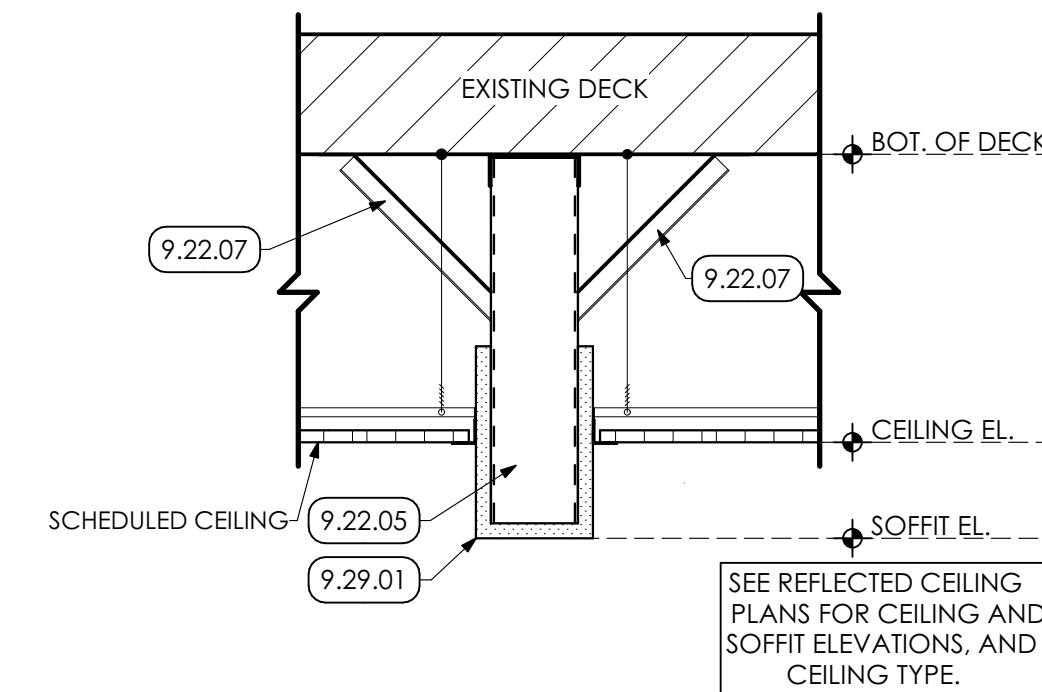
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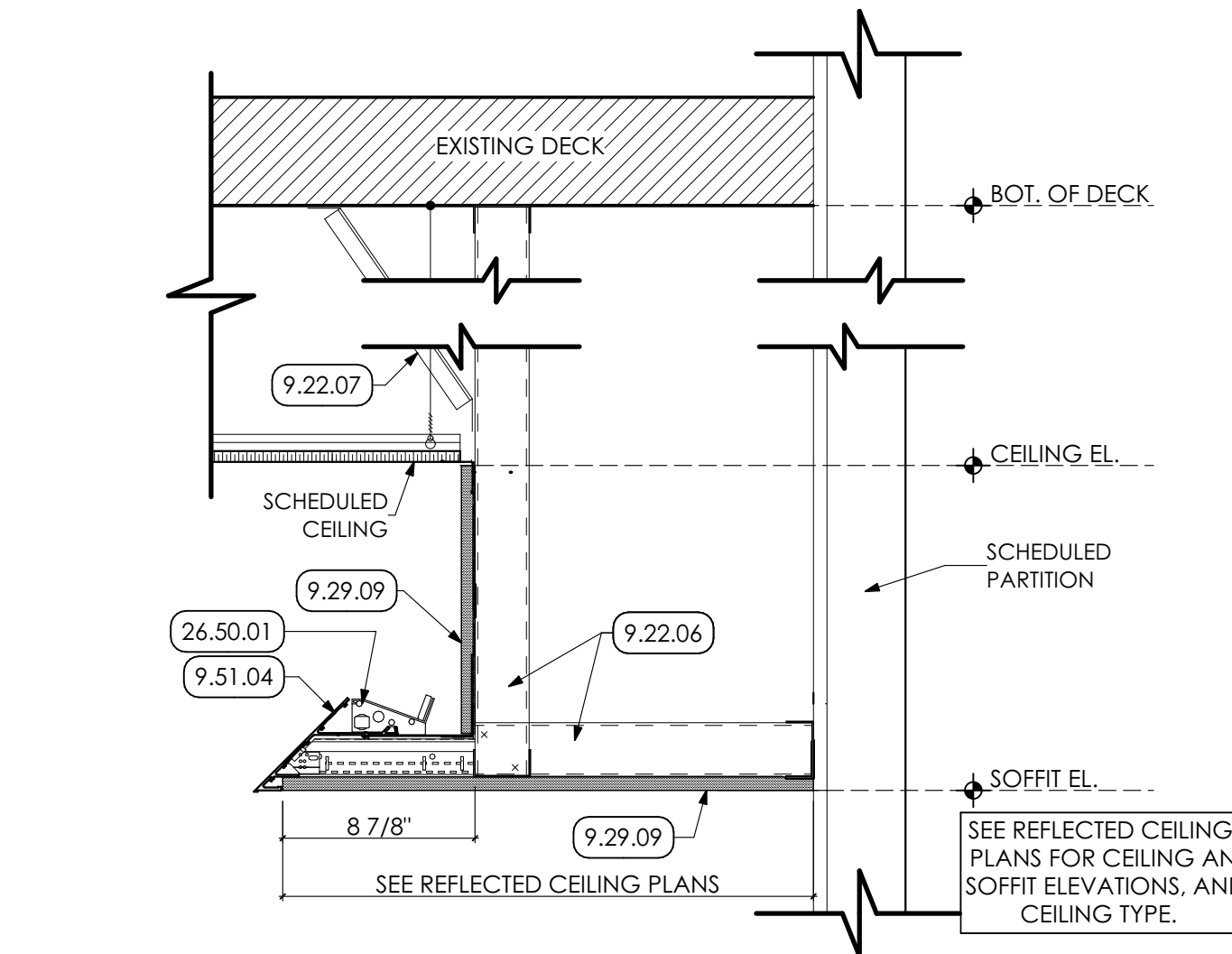
1 ENLARGED REFLECTED CEILING PLAN
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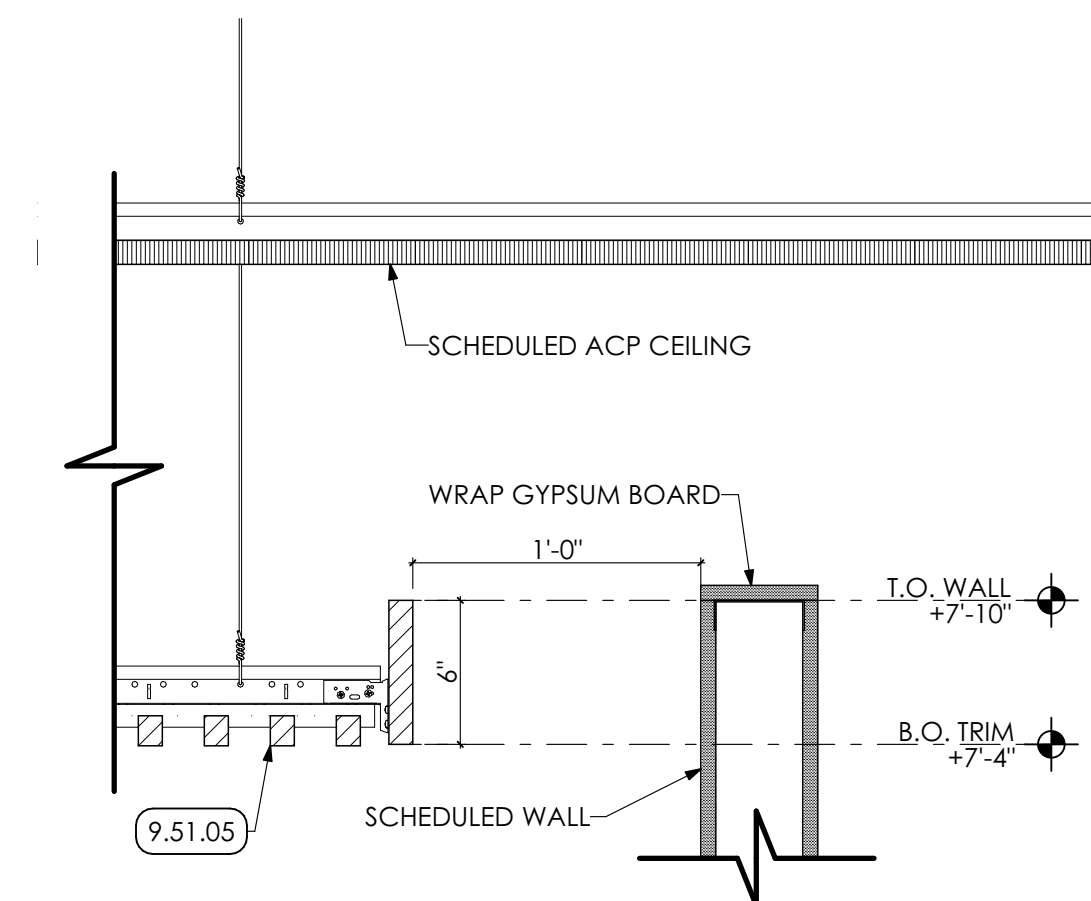
2 SOFFIT DETAIL
SCALE: 1 1/2" = 1'-0"



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



4 SOFFIT LIGHT COVE DETAIL
SCALE: 1 1/2" = 1'-0"



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

KEY NOTES

- 06 WOODS, PLASTICS AND COMPOSITES**
- 4.14 SHEATHING | SPEC 061600
- 6.16.02 1/2" PLYWOOD SHEATHING
- 09 FINISHES**
- 9.22 NON-STRUCTURAL METAL FRAMING | SPEC 092216**
- 9.22.05 3.5/8" METAL STUD SOFFIT FRAMING AT 16" O.C.
- 9.22.06 2.1/2" METAL STUD SOFFIT FRAMING AT 16" O.C.
- 9.22.07 7/8" METAL HAT CHANNEL DIAGONAL BRACING AT 48" O.C.
- 9.29 GYPSUM BOARD | SPEC 092900**
- 9.29.01 5/8" GYPSUM BOARD
- 9.29.09 5/8" GYPSUM BOARD SOFFIT; PAINTED
- 9.51 ACOUSTIC CEILINGS | SPEC 095100**
- 9.51.04 CONCEALED METAL LIGHT COVE SYSTEM. ANCHOR TO METAL SOFFIT FRAMING.
- 9.51.05 WP-2 SUSPENDED WOOD SLAT CEILING.
- 9.51.06 WP-1 SUSPENDED WOOD PANEL CEILING.
- 26 ELECTRICAL | BY E.C.**
- 26 WORK DESCRIBED IN THESE KEY NOTES IS THE RESPONSIBILITY OF THE E.C. UNLESS NOTED OTHERWISE. COORDINATE WITH ELECTRICAL DRAWING.
- 26.50 LIGHTING**
- 26.50.01 LINEAR SOFFIT COVE LIGHTING.

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SHEET SCALE: 1
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SHEET TITLE:
ENLARGED CEILING PLAN AND DETAILS

A-702



- KEY NOTES**
- 02 DEMOLITION**
 - 2.01.24 EXISTING BEAM TO REMAIN.
 - 2.01.25 EXISTING JOIST TO REMAIN.
 - 07 THERMAL AND MOISTURE PROTECTION**
 - 7.41 METAL ROOF PANELS | SPEC 074113
 - 7.41.01 STANDING SEAM METAL ROOF PANEL.
 - 09 FINISHES**
 - 9.92 INTERIOR PAINTING | SPEC 099123
 - 9.92.07 IN AREA OF OPEN CEILING, PREP AND PAINT (PRIMER AND TWO (2) COATS) UNDERSIDE OF ROOF DECK WITH DRYFALL PAINT. PAINT ENTIRE DECK, INCLUDING ALL EXPOSED CONDUIT, BY GC.
 - 9.92.08 PREP AND PAINT (PRIMER AND TWO (2) COATS) ENTIRE STRUCTURE, INCLUDING ALL STEEL JOISTS / BEAMS, EXPOSED ANCHORS, EXPOSED COLUMNS, AND ACCESSORIES WITH DRYFALL PAINT, BY GC.
 - 23 HVAC | BY H.C.**
 - 23 WORK DESCRIBED IN THESE KEYNOTES IS THE RESPONSIBILITY OF THE H.C. UNLESS NOTED OTHERWISE. COORDINATE WITH MECHANICAL DRAWING.
 - 23.34 HVAC FANS
 - 23.34.01 DECK MOUNTED CEILING FAN.
 - 26 ELECTRICAL | BY E.C.**
 - 26 WORK DESCRIBED IN THESE KEYNOTES IS THE RESPONSIBILITY OF THE E.C. UNLESS NOTED OTHERWISE. COORDINATE WITH ELECTRICAL DRAWING.
 - 26.50 LIGHTING
 - 26.50.02 HIGH BAY LIGHT FIXTURE.

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22-0012

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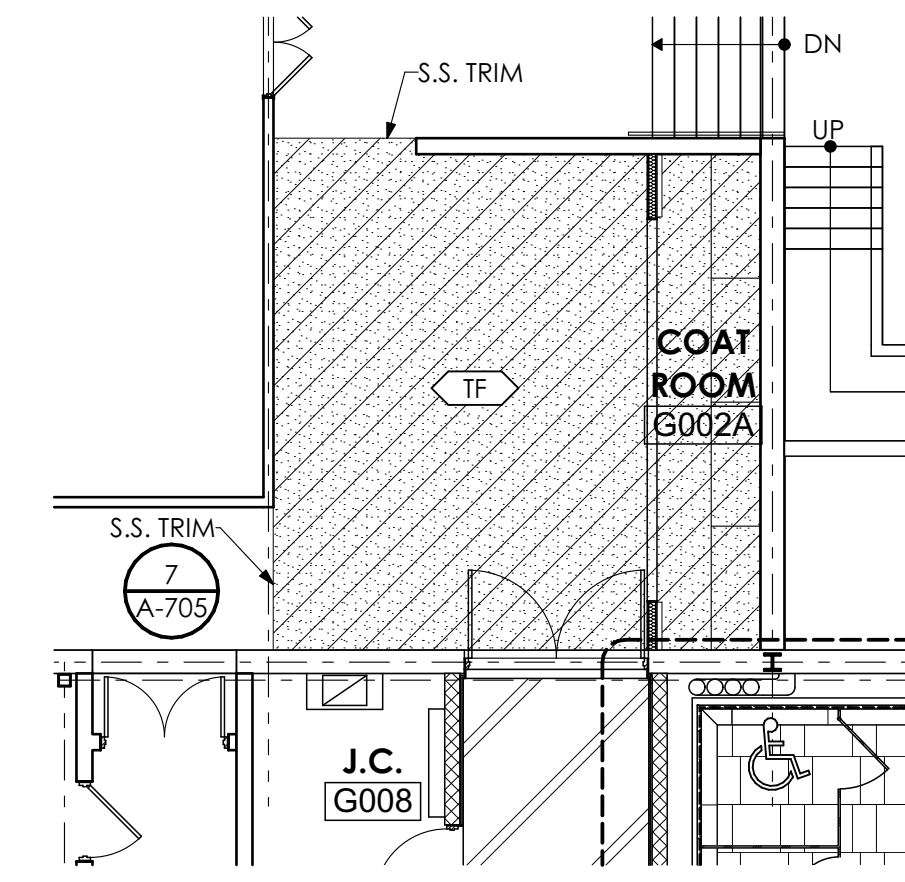
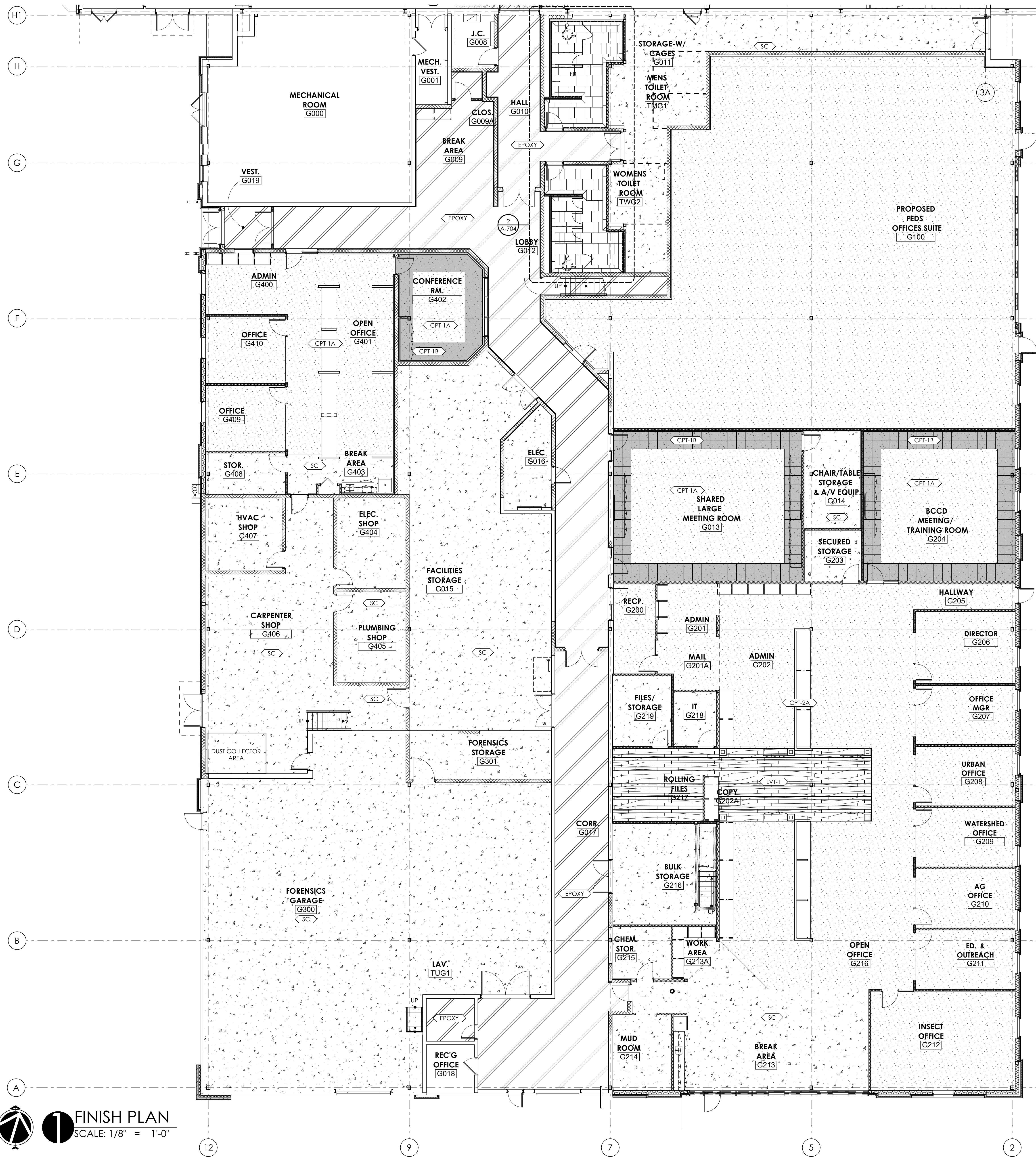
SCALE
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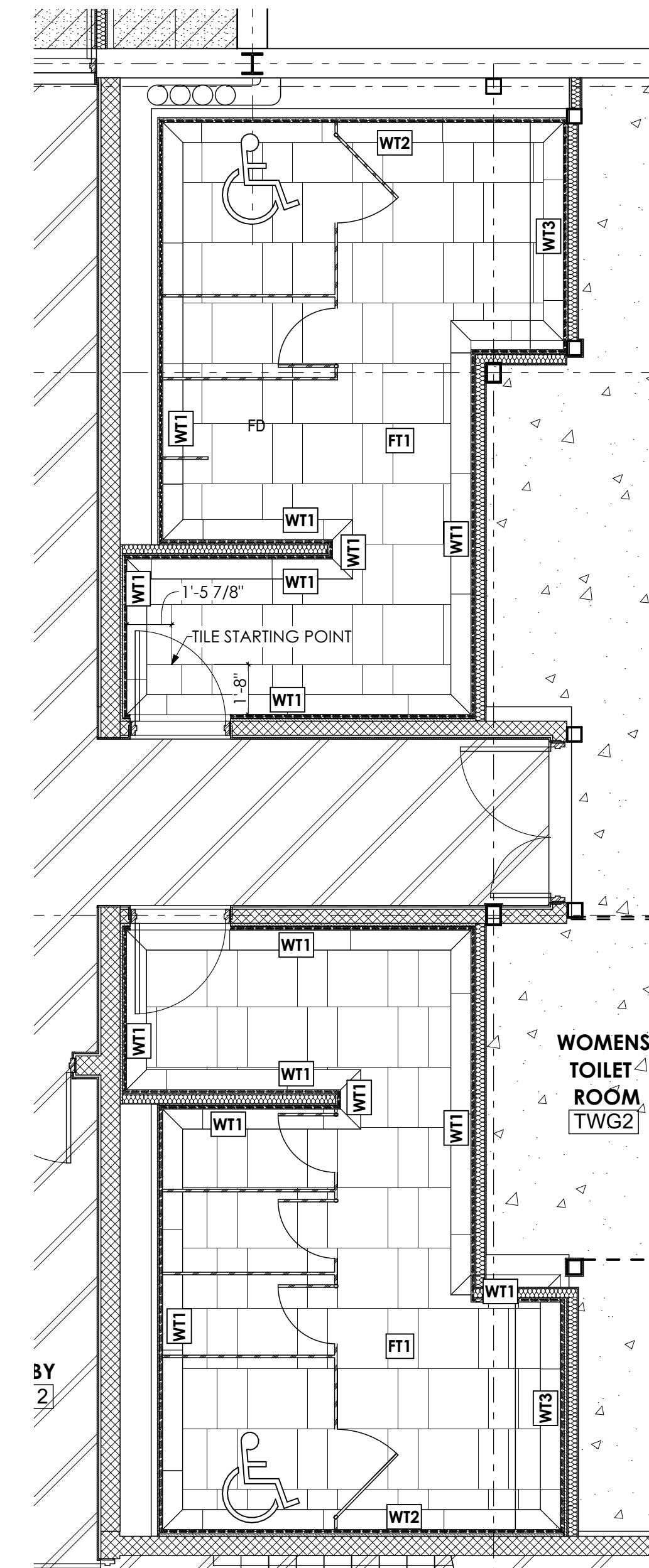
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SHEET TITLE:
MEZZANINE REFLECTED CEILING PLAN

A-703



3 LOBBY FINISH PLAN
SCALE: 1/8" = 1'-0"



2 ENLARGED TOILET RM. FINISH PLAN
SCALE: 1/4" = 1'-0"

FINISH PLAN LEGEND

- CARPET
- CARPET ACCENT / BORDER
- EPOXY FLOOR FINISH
- SEAL CONCRETE
- LVT FLOORING
- TERRAZZO FLOORING
- WT1 WALL TILE PATTERN ID
- FT1 FLOOR TILE PATTERN ID

GENERAL SHEET NOTES

1. REFER TO SHEET A-705 FOR SCHEDULES AND DETAILS.

1 FINISH PLAN
SCALE: 1/8" = 1'-0"

PROJECT #:
22-0012

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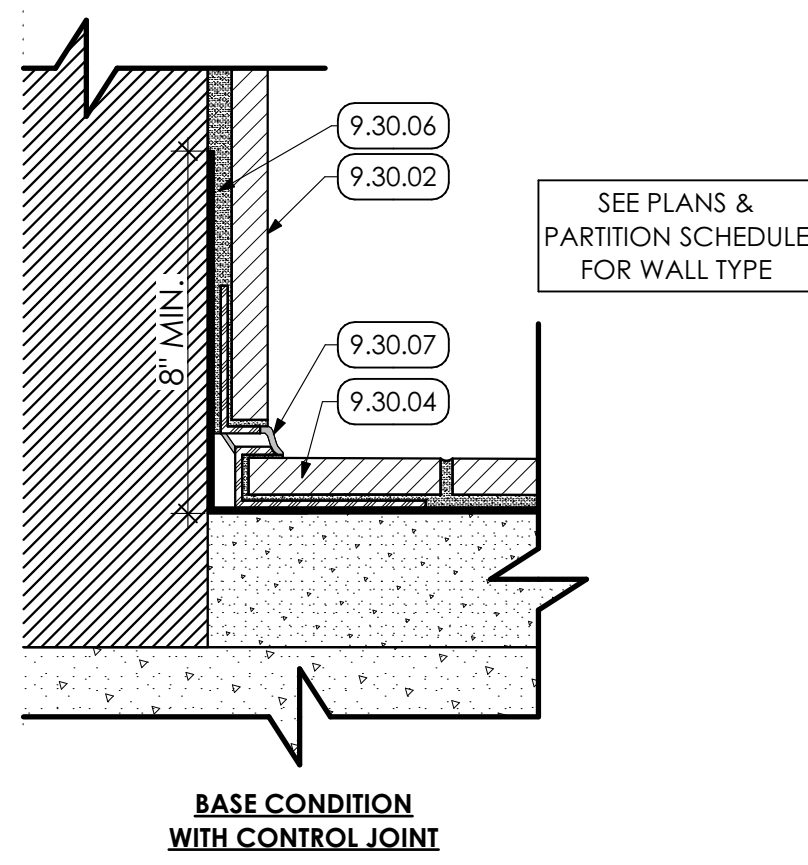
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GRAPHIC SCALE
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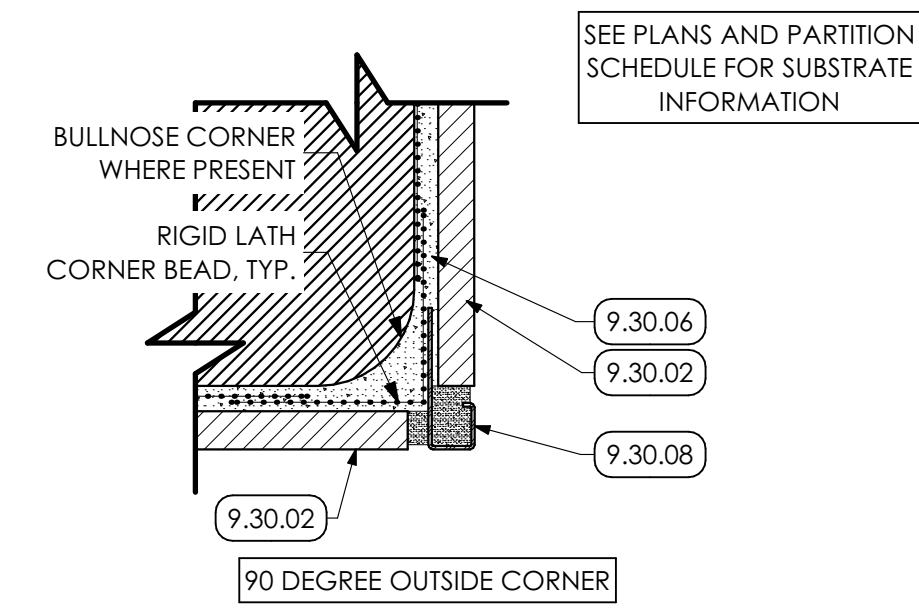
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FINISH PLAN

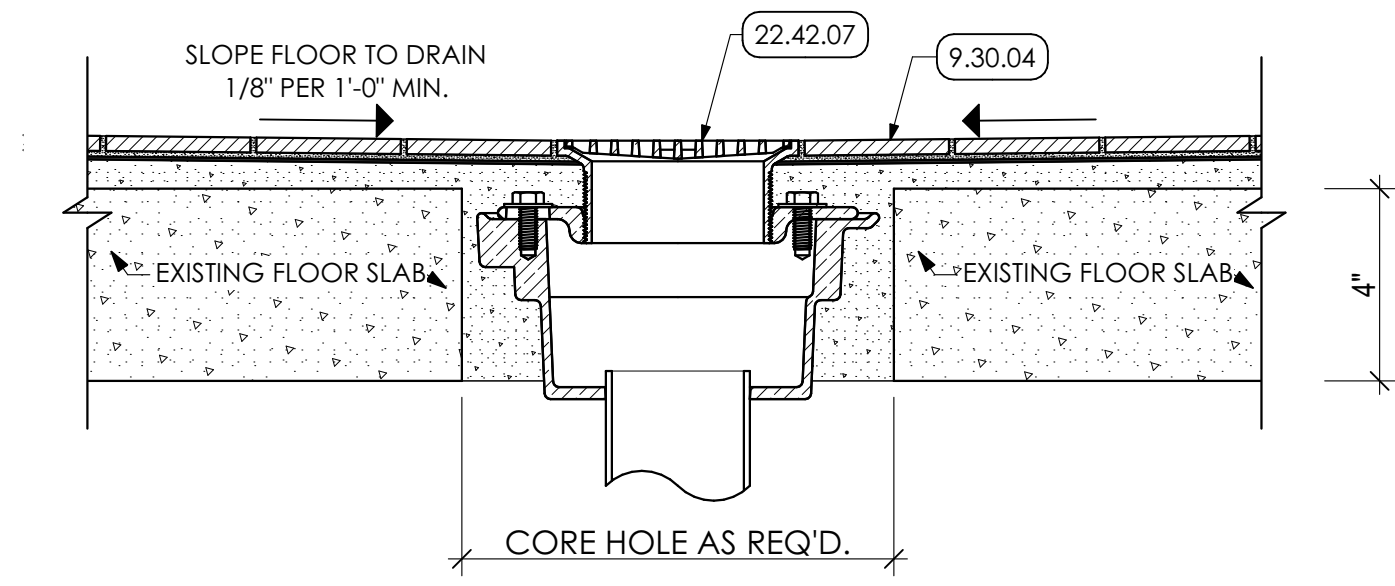
A-704



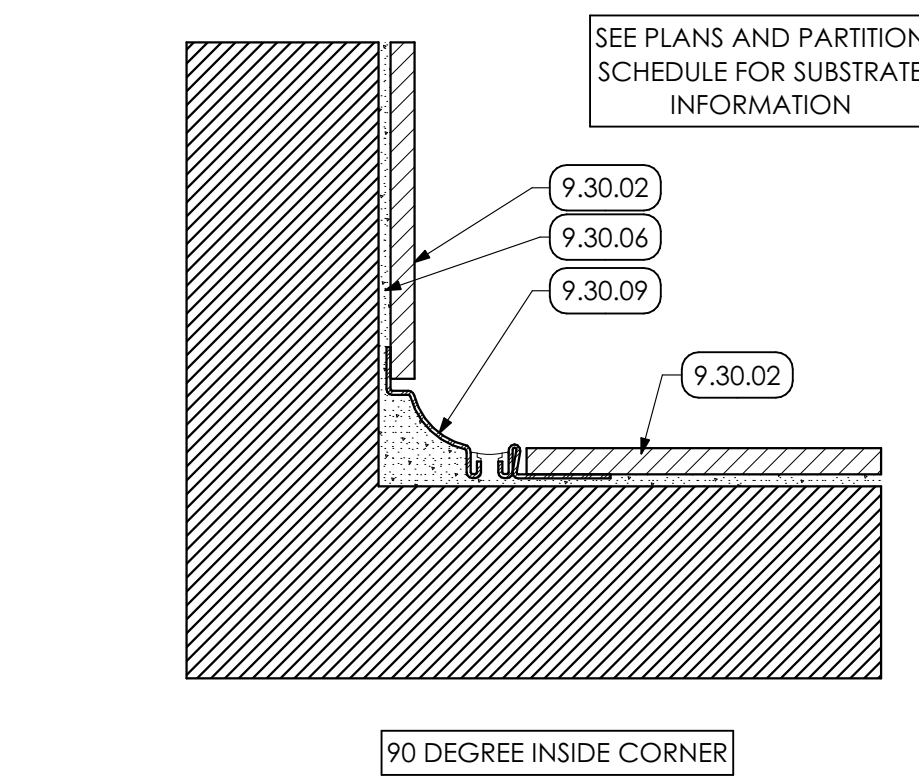
1 TILE BASE DETAIL
SCALE: 6" = 1'-0"



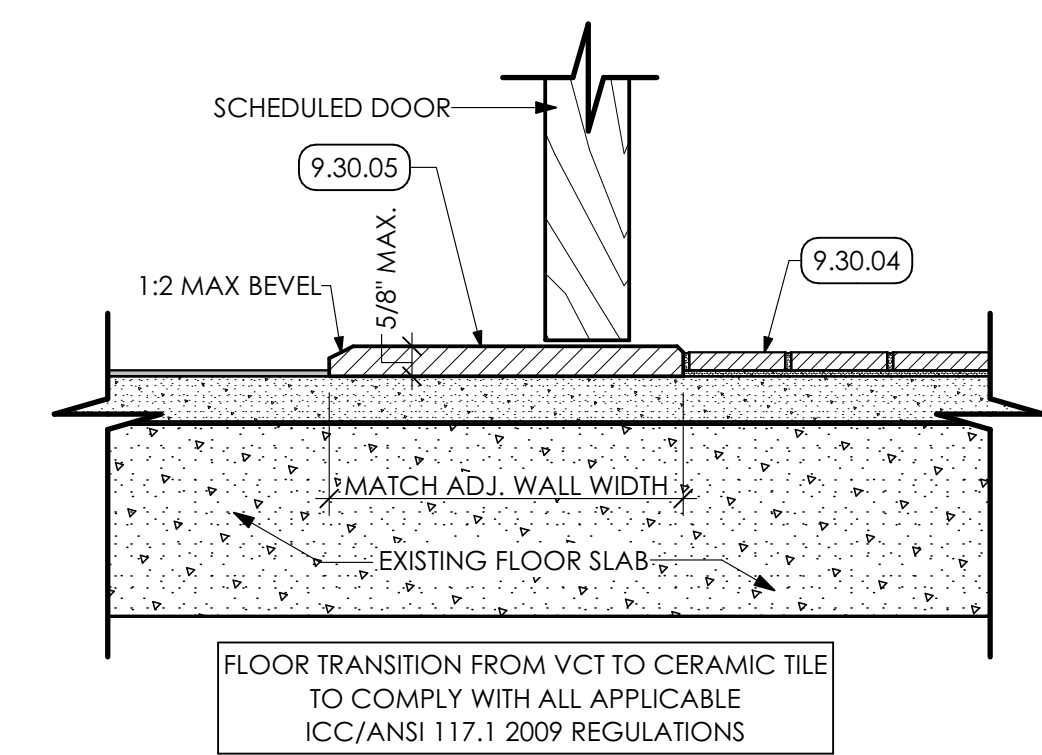
2 TILE CORNER DETAIL
SCALE: 6" = 1'-0"



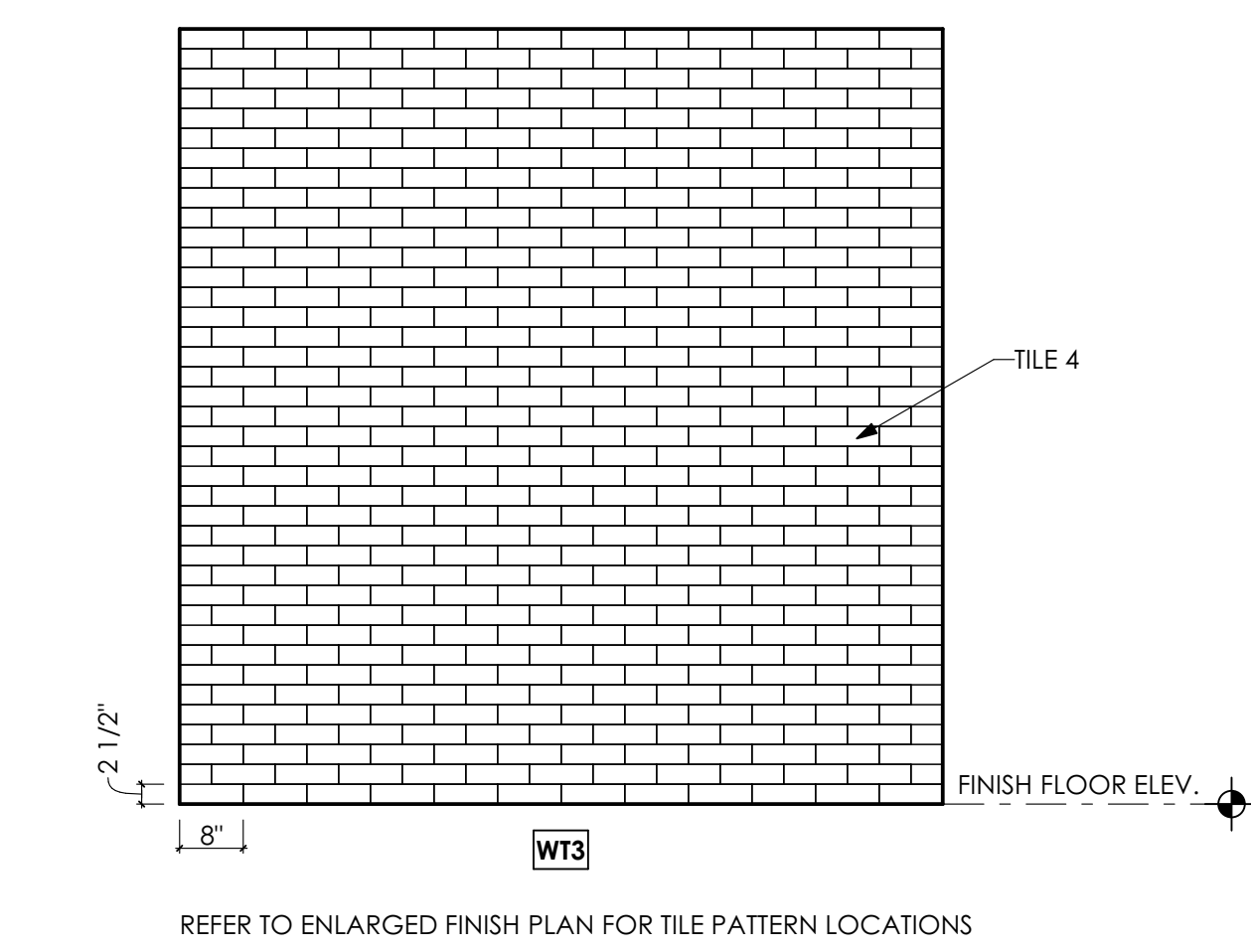
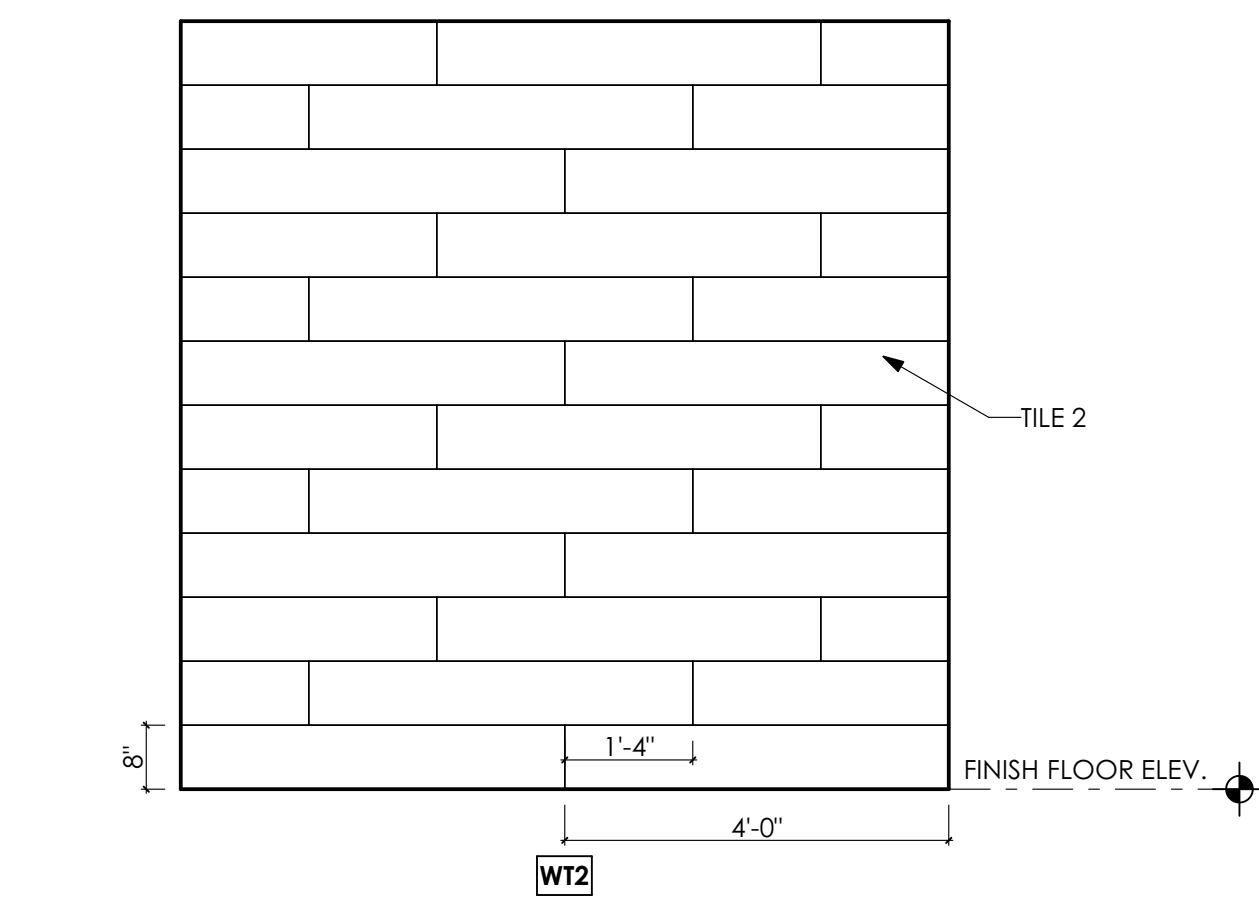
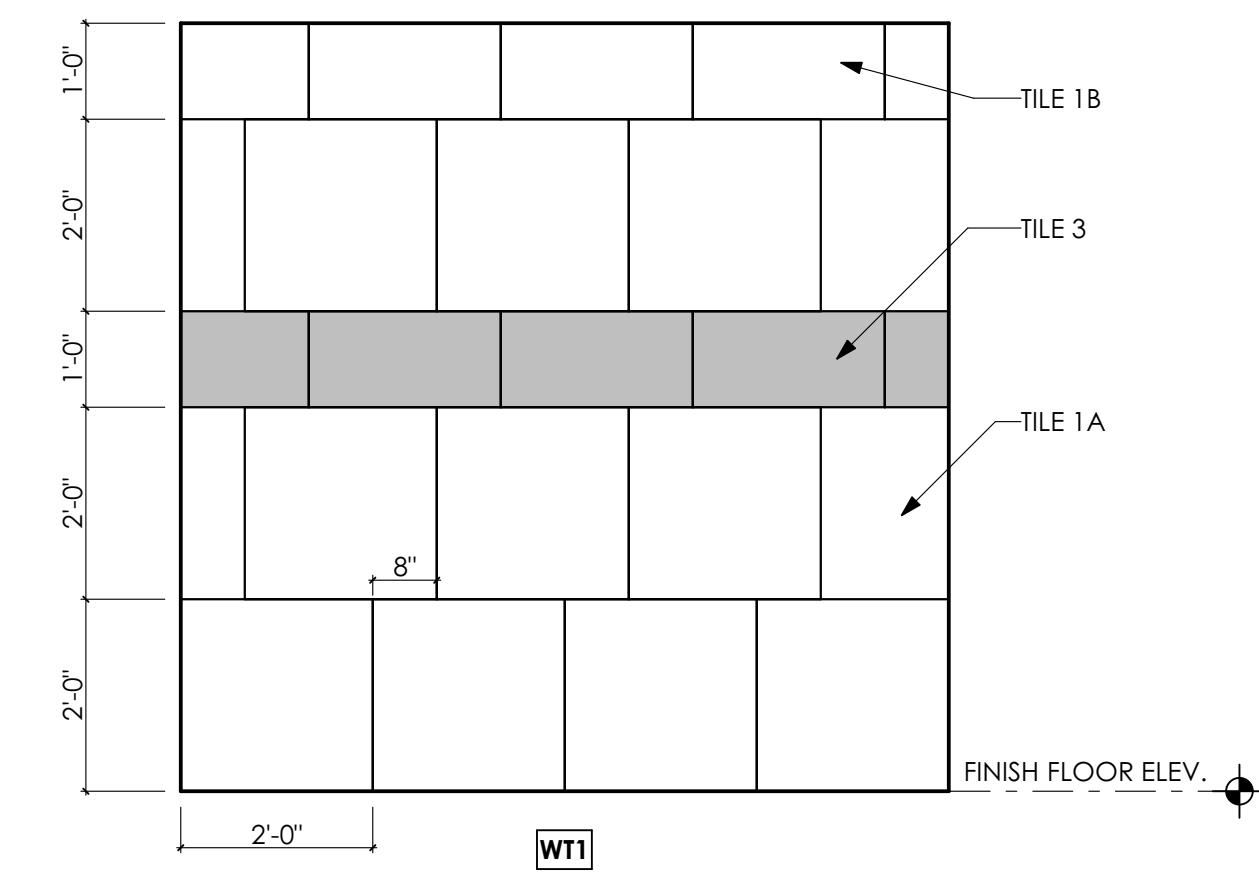
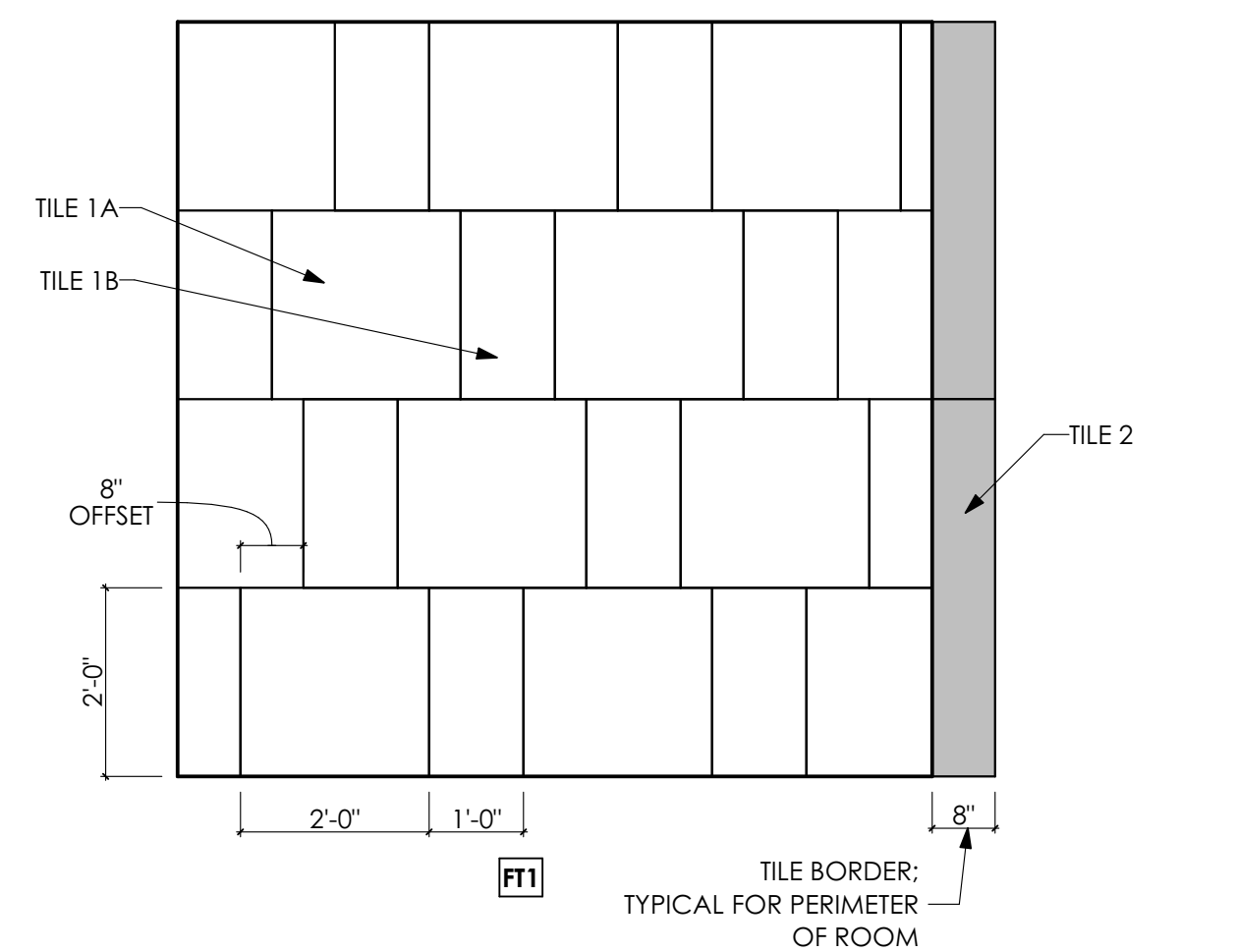
3 FLOOR DRAIN DETAIL
SCALE: 3" = 1'-0"



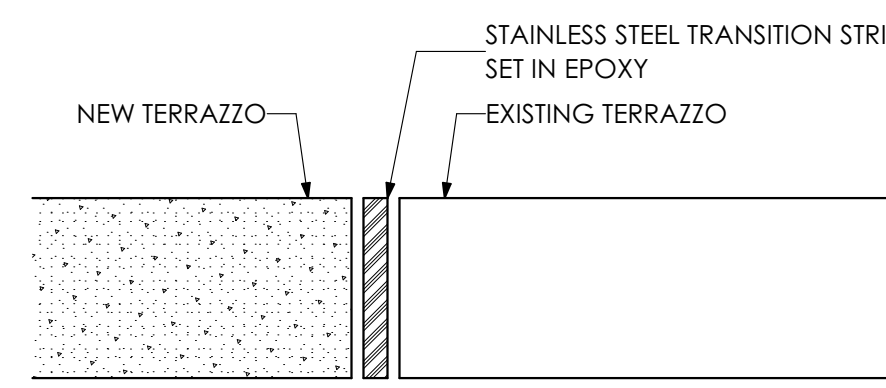
4 TILE CORNER DETAIL
SCALE: 6" = 1'-0"



5 THRESHOLD DETAIL
SCALE: 3" = 1'-0"



6 TYP. TILE ELVATIONS
SCALE: 1/2" = 1'-0"



7 TERRAZZO DETAIL
SCALE: 3" = 1'-0"

ROOM #	ROOM NAME	WALLS				BASE	FLOOR	CEILING		NOTES
		N	S	E	W			TYPE	HEIGHT	
G009	BREAK AREA					RB	EPOXY	ACP1	9'-0"	
G009A	CLOSET					RB	EPOXY	ACP1	9'-0"	
G010	HALL					RB	EPOXY	ACP1	9'-0"	
G011	STORAGE WITH CAGES					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G012	LOBBY					RB	SC	ACP1	9'-0"	
G013	SHARED LARGE MEETING ROOM					RB	CPT-1A, CPT-1B	WPI	9'-0"	
G014	CHAIR/TABLE STORAGE & AV EQUIP					RB	SC	ACP2	9'-0"	
G015	FACILITIES STORAGE					RB	SC	ACP2	9'-0"	
G016	ELEC.					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G017	CORR.					RB	EPOXY	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G018	REC'D OFFICE					RB	SC	ACP1	9'-0"	
G019	VEST.					RB	SC	ACP1	9'-0"	
G100	PROPOSED FEES OFFICES SUITES					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G200	RECP.					RB	CPT-2A	ACP1	9'-0"	
G201	ADMIN					RB	CPT-2A	ACP1	9'-0"	
G201A	MAIL					RB	CPT-2A	ACP1	9'-0"	
G202	ADMIN					RB	CPT-2A	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G202A	COPY					RB	LVT-1	GYP	8'-4"	
G203	SECURED STOR.					RB	SC	ACP2	8'-4"	
G204	BCCD MEETING/ TRAINING ROOM					RB	CPT-1A, CPT-1B	WPI, GYP	9'-0"	
G205	HALLWAY					RB	CPT-2A	ACP1	9'-0"	
G206	DIRECTOR					RB	CPT-2A	ACP1	9'-0"	
G207	OFFICE MGR					RB	CPT-2A	ACP1	9'-0"	
G208	URBAN OFFICE					RB	CPT-2A	ACP1	9'-0"	
G209	WATERSHED OFFICE					RB	CPT-2A	ACP1	9'-0"	
G210	AG OFFICE					RB	CPT-2A	ACP1	9'-0"	
G211	ED. & OUTREACH					RB	CPT-2A	ACP1	9'-0"	
G212	INSECT OFFICE					RB	CPT-2A	ACP1	9'-0"	
G213	BREAK AREA					RB	SC	GYP	8'-0"	
G213A	WORK AREA					RB	SC	GYP	8'-0"	
G214	MUD ROOM					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G215	GHEM STOR.					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G216	OPEN OFFICE					RB	CPT-2A	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G217	BULK STORAGE					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G218	ROLLING FILLS					RB	LVT-1	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G219	FILES/STORAGE					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G220	IT					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G300	FORENSICS GARAGE					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G301	FORENSICS STORAGE					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G400	ADMIN					RB	CPT-1A	ACP1	9'-0"	
G401	OPEN OFFICE					RB	CPT-1A	ACP1	9'-0"	
G402	CONFERENCE ROOM					RB	CPT-1A, CPT-1B	WPI, GYP	9'-0"	
G403	BREAK AREA					RB	SC	ACP1	9'-0"	
G404	ELEC. SHOP					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G405	PLUMBING SHOP					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G406	CARPENTER SHOP					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G407	HVAC SHOP					RB	SC	OPEN		PRIME AND PAINT UNDERSIDE OF EXPOSED DECK AND STRUCT.
G408	STOR.					RB	SC	ACP2	9'-0"	
G409	OFFICE					RB	CPT-1A	ACP1	9'-0"	
G410	OFFICE					RB	CPT-1A	ACP1	9'-0"	
TMG1	MENS TOILET ROOM	W1, W2	W1	W1, W3	W1	TILE	FLR FIELD	ACP1	9'-0"	
TWG2	WOMENS TOILET ROOM	W1	W1	W1, W3	W1, W2	TILE	FLR FIELD	ACP1	9'-0"	
TUG1	LAV					RB	EPOXY	ACP1	9'-0"	
ST001	STAIRWELL					RB				
ST002	STAIR					RB				

KEY NOTES

- 09 FINISHES**
- 9.30 CERAMIC TILING | SPEC 093013**
- 9.30.02 PORCELAIN WALL TILE ON ENTIRE WALL FROM TOP OF TILE BASE TO UNDERSIDE OF CEILING. COORDINATE WITH FINISH SCHEDULE.
- 9.30.04 PORCELAIN FLOOR TILE THROUGHOUT ROOM. COORDINATE WITH FINISH SCHEDULE.
- 9.30.05 STONE THRESHOLD.
- 9.30.06 THINSET MORTAR BED.
- 9.30.07 CONTINUOUS EXTRUDED METAL COVE BASE TRIM.
- 9.30.08 CONTINUOUS EXTRUDED METAL EDGE TRIM.
- 9.30.09 CONTINUOUS EXTRUDED METAL JOINT TRIM.

- 22 PLUMBING | BY P.C.**
- 22 WORK DESCRIBED IN THESE KEYNOTES IS THE RESPONSIBILITY OF THE P.C. UNLESS NOTED OTHERWISE. COORDINATE WITH PLUMBING DRAWING.

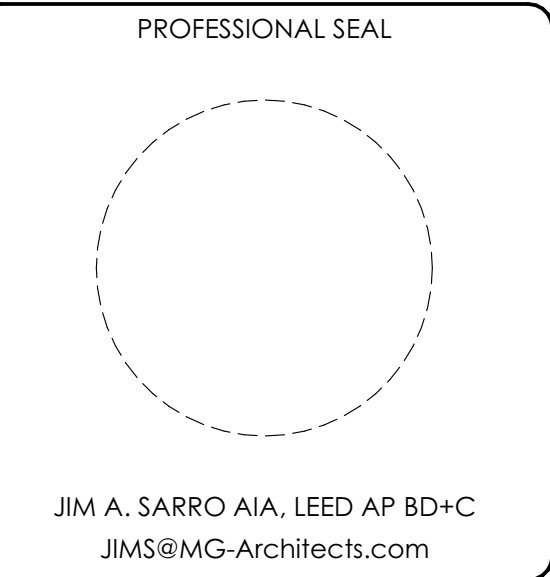
- 22.42 COMMERCIAL PLUMBING FIXTURES**
- 22.42.07 FLOOR DRAIN: COORDINATE w/ PLUMBING DRAWINGS.



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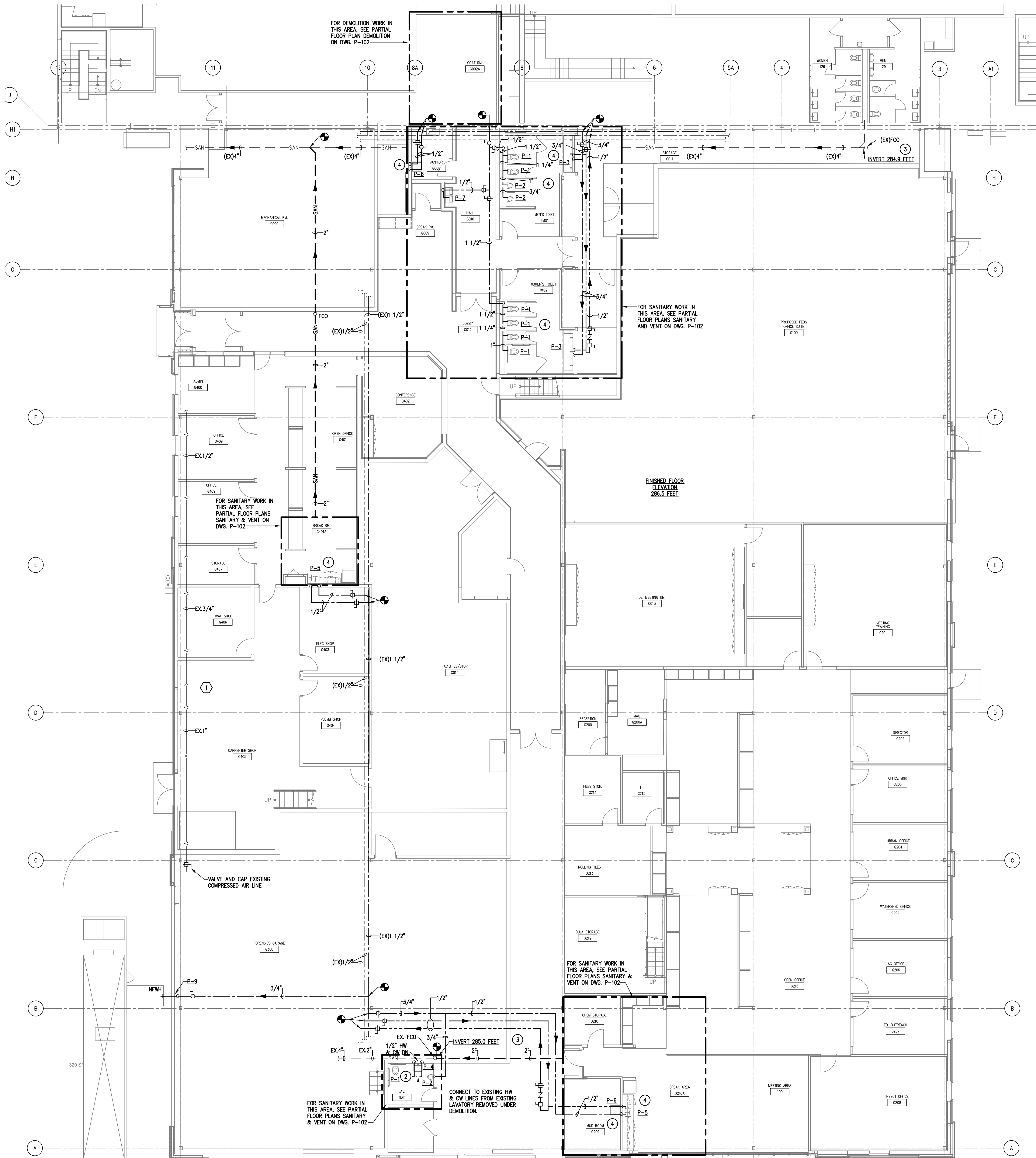
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SHEET TITLE:
FINISH SCHEDULE AND DETAILS

A-705



FLOOR PLAN — PLUMBING

SCALE 1/8" = 1'-0"

DEMOLITION NOTES

- 1 CONTRACTOR SHALL REMOVE EXISTING COMPRESSED AIR LINE, DROPS AND HOSE CONNECTIONS EXCEPT FOR THOSE IN FORENSIC GARAGE 300. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION OF EXISTING COMPRESSED AIR LINE AND NUMBER OF DROPS TO BE REMOVED. CONTRACTOR SHALL MAKE NO CLAIMS FOR ADDITIONAL COMPENSATION FAILURE TO VERIFY LOCATION AND SIZE.

NEW WORK DRAWING NOTES

- 1 EXISTING COLD WATER, HOT WATER, HOT WATER RETURN AND SANITARY LINES SHALL REMAIN. EXISTING SIZES AND LOCATION WERE OBTAINED FROM EXISTING DRAWINGS. CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZES PRIOR TO BID. CONTRACTOR SHALL MAKE NO CLAIMS FOR ADDITIONAL COMPENSATION FAILURE TO VERIFY LOCATION AND SIZE.
- 2 CONTRACTOR SHALL REMOVE EXISTING WATER CLOSET AND INSTALL NEW WATER CLOSET. SEE ARCHITECTURAL DRAWINGS FOR LOCATION. PROVIDE OFFSET FLANGE AS REQUIRED. EXISTING LAVATORY SHALL BE REMOVED. EXISTING HOT AND COLD WATER PIPES SHALL BE REMOVED TO ABOVE CEILING AND EXTENDED AND CONNECTED TO NEW LAVATORY. CONTRACTOR SHALL PROVIDE NEW 3/4" COLD WATER LINE TO NEW URINAL. ANY UNUSED HOT OR COLD WATER PIPES SHALL BE REMOVED AND CAPPED AS CLOSE TO MAINS AS POSSIBLE. ALL UNUSED ABOVE GROUND SANITARY AND VENT LINES SHALL BE REMOVED. ALL UNUSED SANITARY LINES BELOW GROUND, SHALL BE ABANDONED PER AUTHORITY HAVING JURISDICTION.
- 3 EXISTING INVERTS ARE TAKEN FROM EXISTING DRAWINGS. CONTRACTOR SHALL VERIFY PRIOR TO START OF WORK.
- 4 FOR INDIVIDUAL HOT AND COLD WATER CONNECTIONS, SEE PLUMBING FIXTURE SCHEDULE ON DRAWING P-101.

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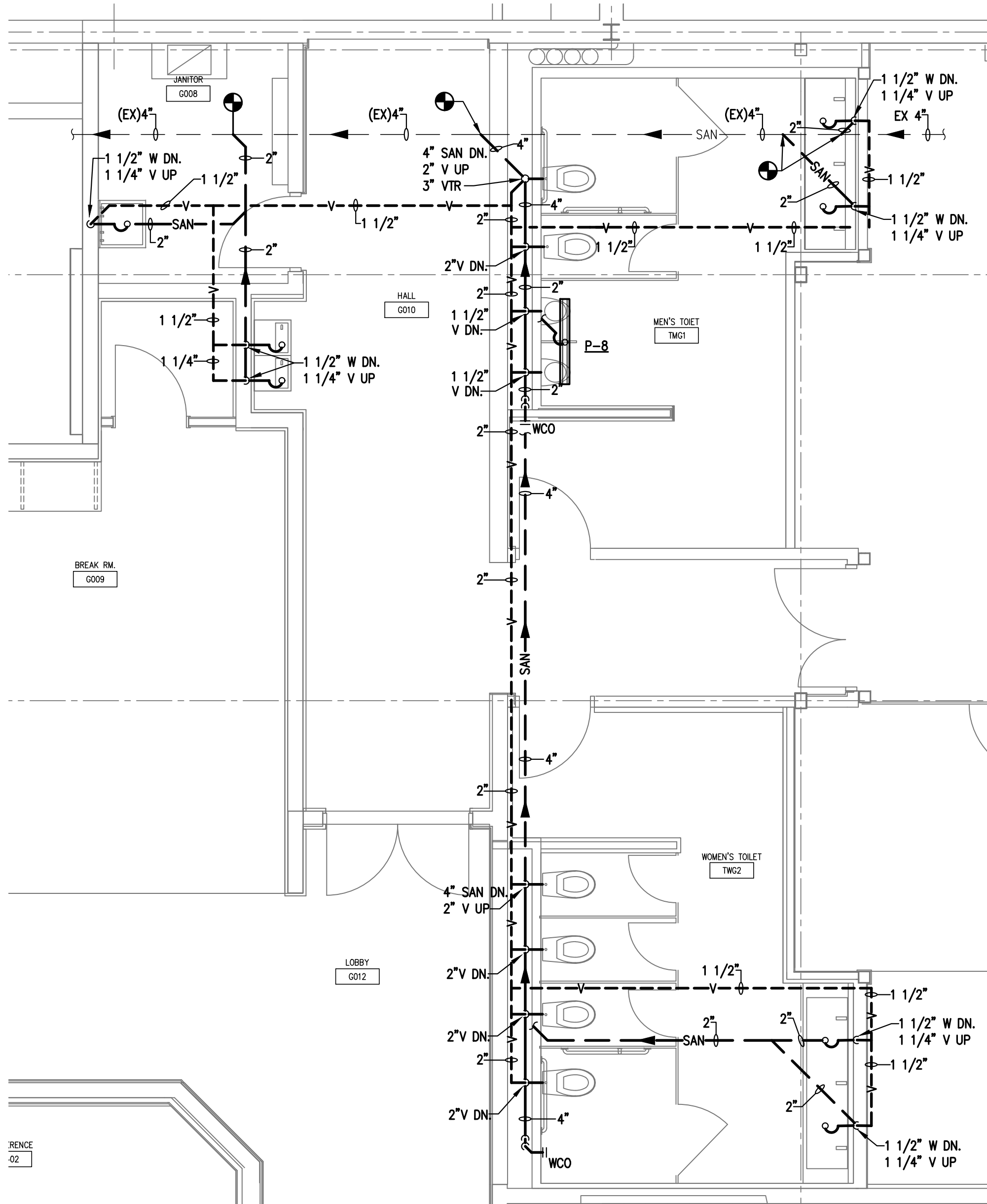
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SHEET TITLE:
**FLOOR PLAN
PLUMBING**

P-101

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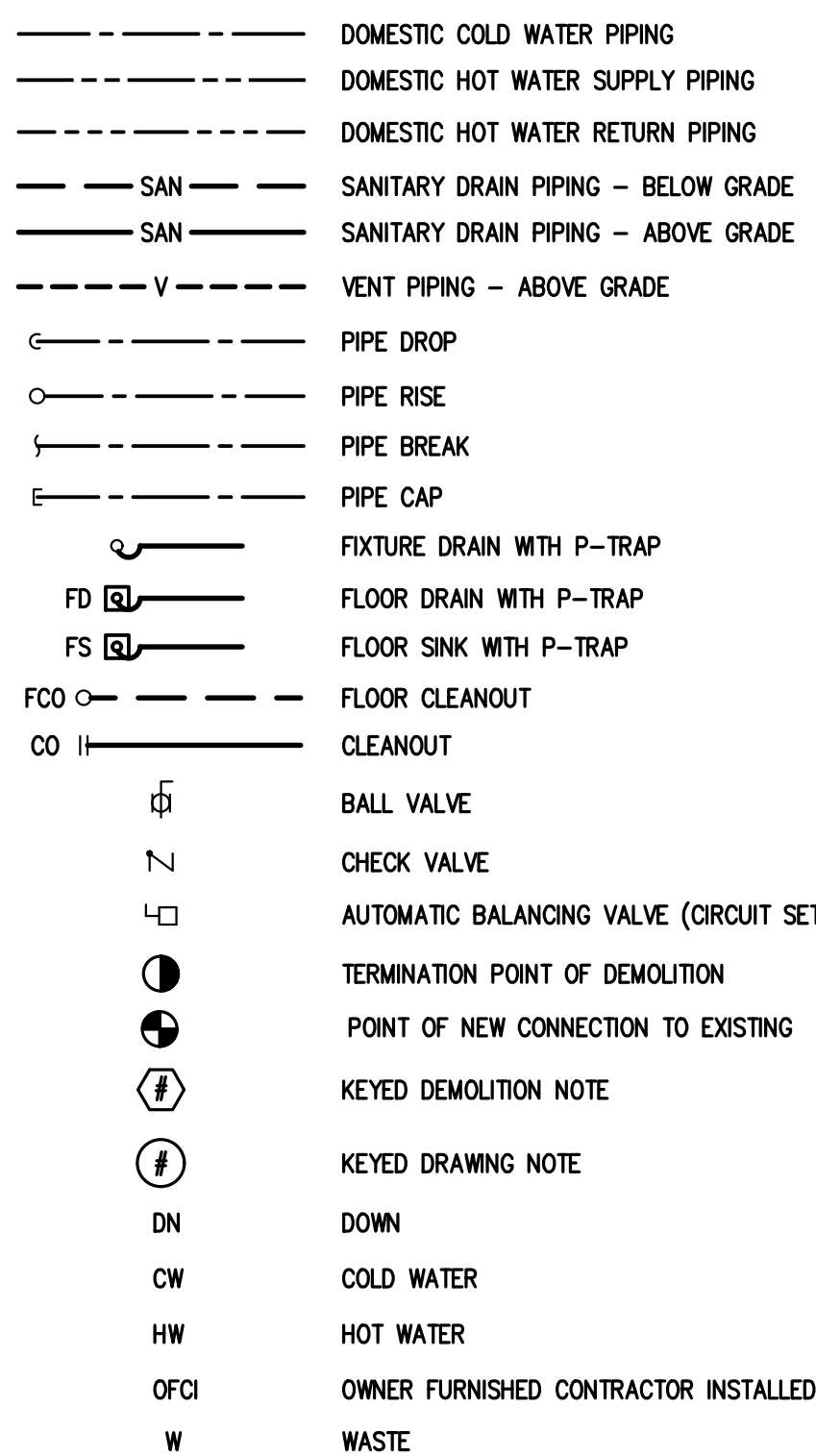
PARTIAL FLOOR PLAN – SANITARY & VENT

SCALE 1/4" = 1'-0"

GENERAL PLUMBING NOTES

- A. GENERAL PLUMBING NOTES
1. PROVIDE ALL LABOR AND MATERIALS NEEDED FOR A COMPLETE AND PROPER OPERATIONAL PLUMBING SYSTEM.
 2. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC AND INDICATIVE OF WORK TO BE PERFORMED. THE DRAWINGS ARE NOT INTENDED TO SHOW EXACT LOCATIONS OR TO SHOW EVERY PIPE, FITTING, VALVE OR APPURTENANCE REQUIRED FOR A COMPLETE INSTALLATION. DO NOT SCALE LOCATION DIMENSIONS FROM THESE DRAWINGS.
 3. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING AND VERIFYING ALL EXISTING CONDITIONS AND DIMENSIONS AND FOR COORDINATION OF HIS WORK WITH THAT OF OTHER TRADES. PERFORM WORK IN AN ORDERLY MANNER AND WITH THE LEAST POSSIBLE INTERFERENCE.
 4. WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT ENFORCED EDITION OF:
 - A. INTERNATIONAL BUILDING CODE
 - B. INTERNATIONAL PLUMBING CODE
 - C. NEC (NFPA 70)
 - D. ALL FEDERAL, STATE, AND LOCAL CODES AND ORDINANCES.
 5. ALL MATERIALS, EQUIPMENT, AND DEVICES SHALL AS A MINIMUM MEET THE REQUIREMENTS OF UL WHERE UL REQUIREMENTS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE USED.
 6. WHERE PIPES OR CONDUIT PENETRATE FIRE RATED OR SMOKE RATED BARRIERS (WALLS, FLOORS, AND CEILINGS), SEAL PENETRATIONS IN ACCORDANCE WITH NFPA 90A WITH UL LISTED FIRE STOPPING SYSTEM.
 7. ALL EQUIPMENT AND MATERIALS INCORPORATED IN THIS WORK SHALL BE NEW UNLESS NOTED OTHERWISE AND SHALL BE CURRENT PRODUCTS BY MANUFACTURERS REGULARLY ENGAGED IN THE PRODUCTION OF SUCH PRODUCTS.
 8. ALL FACTORY APPLIED COATINGS AND FINISHES SHALL BE PROVIDED WITHOUT RUST, SCRATCHES, OR DENTS.
 9. PROVIDE OWNER WITH CERTIFICATES OF FINAL INSPECTIONS AND ACCEPTANCE FROM THE AUTHORITY HAVING JURISDICTION.
- B. COORDINATION REQUIREMENTS
1. COORDINATE LOCATION AND INSTALLATION OF PLUMBING WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES. MODIFICATIONS DUE TO FIELD CONDITIONS SHALL BE COMPLETELY RESOLVED BY CONTRACTOR IN ACCORDANCE WITH RECOMMENDATIONS OF THE GENERAL CONTRACTOR OR CONSTRUCTION MANAGER/OWNER.
 2. COORDINATE FINAL LOCATIONS OF PLUMBING EQUIPMENT WITH ARCHITECTURAL PLANS.
 3. PROVIDE TO THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER DIMENSIONED LOCATIONS AND SIZE OF ALL REQUIRED FLOOR, WALL AND ROOF OPENINGS. PROVIDE FOR INSTALLATION OF SLEEVES AND FRAMING AS REQUIRED.
- C. PLUMBING INSTALLATION REQUIREMENTS
1. INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURERS PRINTED INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN CLEARANCES FOR CLEARANCE ACCESS TO MAINTAIN AND SERVICE EQUIPMENT, VALVES AND CONTROL.
 2. ALL INSTALLATION AND WORK SHALL BE PERFORMED IN A NEAT, WORKMANLIKE MANNER SO AS NOT TO DAMAGE ANY SURFACES, EQUIPMENT, OR MATERIALS.
 3. MOTOR OPERATED EQUIPMENT SHALL BE ISOLATED FROM THE BUILDING STRUCTURE BY THE INSTALLATION OF APPROVED VIBRATION HANGERS OR SUPPORTS.
 4. ALL EQUIPMENT AND PIPING ABOVE THE CEILING SHALL BE SUPPORTED IN AN APPROVED MANNER FROM THE BUILDING STRUCTURE ABOVE.
 5. PROVIDE PIPE ESCUTCHEONS AT ALL EXPOSED PENETRATIONS OF FLOOR, WALLS AND CEILINGS.
 6. PIPE SIZES ARE IN INCHES UNLESS NOTED OTHERWISE.
 7. RUNOUTS TO EQUIPMENT SHALL BE SIZED AS INDICATED AND INCREASED OR REDUCED AT POINT OF FINAL CONNECTION TO EQUIPMENT.
 8. ALL SYSTEMS SHALL BE TESTED FOR PROPER OPERATION IN ACCORDANCE WITH APPLICABLE CODE OR REGULATION.
 9. SEAL ALL PIPE PENETRATIONS THROUGH WALLS, FLOORS, AND ROOFS WATER TIGHT.
 10. SEAL ALL PIPE PENETRATIONS THROUGH FIRE RATED WALLS AND CEILINGS WITH U.L. FIRE RATED CAULK PER AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF FIRE WALLS AND CEILINGS.

PLUMBING LEGEND



PLUMBING SPECIFICATIONS

- A. DOMESTIC WATER
1. DOMESTIC WATER DISTRIBUTION PIPE MATERIAL SHALL BE PER TABLE 605.4 WATER DISTRIBUTION PIPE ON THIS DWG.
 2. DOMESTIC WATER PIPE FITTINGS SHALL BE PER TABLE 605.5 PIPE FITTINGS ON THIS DWG.
- B. SANITARY DRAINAGE
1. SANITARY AND VENT PIPE MATERIAL ABOVE GROUND SHALL BE PER TABLE 702.1 ABOVE GROUND DRAINAGE AND VENT PIPE ON THIS DWG. SANITARY AND VENT PIPE MATERIAL BELOW GROUND SHALL BE PER TABLE 702.2 UNDERGROUND BUILDING DRAINAGE AND VENT PIPE ON THIS DWG. SLOPE: SANITARY PIPING PER TABLE 704.1 SLOPE OF HORIZONTAL DRAINAGE PIPE THIS DRAWING.
 2. SANITARY AND VENT PIPE FITTINGS SHALL BE PER TABLE 702.4 PIPE FITTINGS ON THIS DWG.
- C. DOMESTIC WATER PIPE INSULATION
1. INSULATE ALL DOMESTIC HOT AND COLD WATER PIPES WITH 1" ARMAFLEX OR A MINIMUM R-VALUE PER AUTHORITY HAVING JURISDICTION. INSTALL INSULATION PER MANUFACTURER'S RECOMMENDATIONS.
- D. FLOOR CLEANOUT
1. R. SMITH FIGURE 4020 SERIES OR EQUAL ROUND ADJUSTABLE CLEANOUT. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR FINISH FLOOR MATERIAL AND PROVIDE APPLICABLE COVER. COORDINATE COVER FINISH WITH OWNER/CONSTRUCTION MANAGER.
- E. STERILIZATION
1. ALL DOMESTIC WATER PIPING SHALL BE CLEANED AND STERILIZED PER AUTHORITY HAVING JURISDICTION.

IPC TABLE 605.4 WATER DISTRIBUTION PIPE	
MATERIAL	STANDARD
COPPER OR COPPER-ALLOY TUBING (TYPE K, WK, L, WL, M OR WM)	ASTM B 75; ASTM B 88; ASTM B 231; ASTM B 447
CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING	ASTM F 876; ASTM F 877; CSA B137.5
CROSS-LINKED POLYETHYLENE/ALUMINUM/CROSS-LINKED POLYETHYLENE (PEX-AL-PEX) PIPE	ASTM F 1281; ASTM F 2262; CAN/CSA B137.10M
CROSS-LINKED POLYETHYLENE/ALUMINUM/HIGH DENSITY POLYETHYLENE (PEX-AL-HDPE)	ASTM F 1986

IPC TABLE 605.5 PIPE FITTINGS	
MATERIAL	STANDARD
COPPER OR COPPER-ALLOY	ASSE 1061; ASME B16.15; ASME B16.18; ASME B16.22; ASME B16.23; ASME B16.26; ASME B16.29
CROSS-LINKED POLYETHYLENE/ALUMINUM/HIGH DENSITY POLYETHYLENE (PEX-AL-HDPE)	ASTM F 1986
FITTINGS FOR CROSS-LINKED POLYETHYLENE (PEX) PLASTIC TUBING	ASSE 1061; ASTM F 877; ASTM F 1807; ASTM F 1980; ASTM F 2080; ASTM F 2096; ASTM F 2159; ASTM F 2434; CSA B137.5
INSERT FITTINGS FOR POLYETHYLENE/ALUMINUM/POLYETHYLENE (PE-AL-PE) AND CROSS-LINKED POLYETHYLENE/ALUMINUM/CROSS-LINKED POLYETHYLENE (PEX-AL-PEX)	ASTM F 1974; ASTM F1281; ASTM F1282; CAN/CSA B137.9; CAN/CSA B137.10

IPC TABLE 702.1 ABOVE GROUND DRAINAGE AND VENT PIPE	
MATERIAL	STANDARD
CAST-IRON PIPE	ASTM A 74; ASTM A 888; CISP1301
POLYVINYL CHLORIDE (PVC) PLASTIC PIPE IN IPS DIAMETERS, INCLUDING SCHEDULE 40, DR 22 (PS 200), AND DR 24 (PS 140); WITH A SOLID, CELLULAR CORE OR COMPOSITE WALL	ASTM D 2665; ASTM F 891; ASTM F 1488; CSA B181.2
POLYVINYL CHLORIDE (PVC) PLASTIC PIPE WITH A 3.25-INCH A.D. AND A SOLID, CELLULAR CORE OR COMPOSITE WALL	ASTM D 2949; ASTM F 1488

IPC TABLE 702.2 UNDERGROUND BUILDING DRAINAGE AND VENT PIPE	
MATERIAL	STANDARD
ACRYLONITRILE BUTADIENE STYRENE (ABS) PLASTIC PIPE IN IPS DIAMETERS, INCLUDING SCHEDULE 40, DR 22 (PS 200) AND DR 24 (PS 140); WITH SOLID, CELLULAR CORE, OR COMPOSITE WALL	ASTM D 2661; ASTM F 628; ASTM F 1488; CSA B181.1
POLYVINYL CHLORIDE (PVC) PLASTIC PIPE IN IPS DIAMETERS, INCLUDING SCHEDULE 40, DR 22 (PS 200) AND DR 24 (PS 140); WITH SOLID, CELLULAR CORE, OR COMPOSITE WALL	ASTM D 2665; ASTM F 891; ASTM F 1488; CSA B181.2
POLYVINYL CHLORIDE (PVC) PLASTIC PIPE WITH A 3.25-INCH A.D. AND A SOLID, CELLULAR CORE OR COMPOSITE WALL	ASTM D 2949; ASTM F 1488

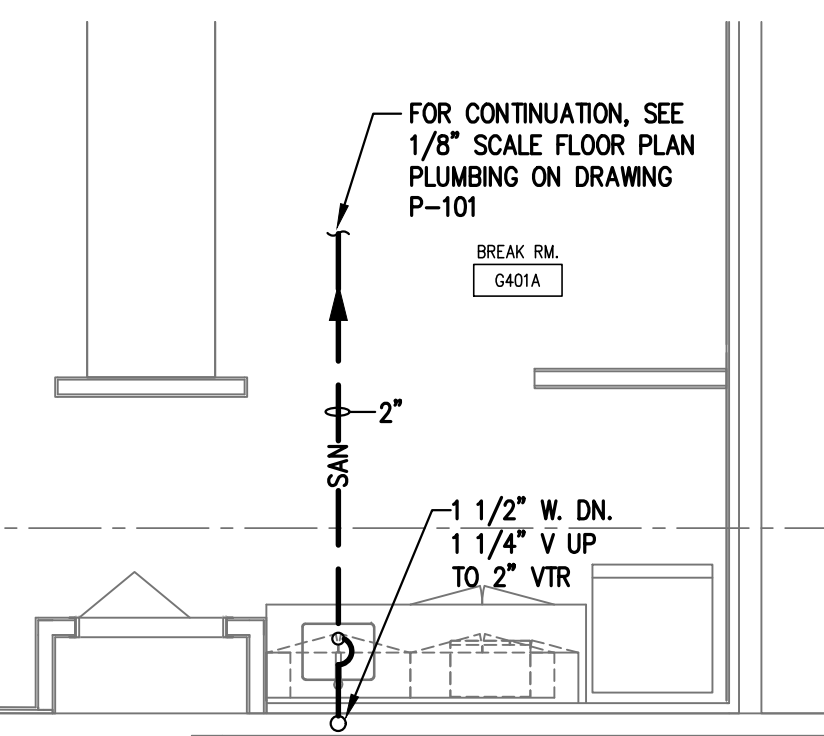
IPC TABLE 702.4 PIPE FITTINGS	
MATERIAL	STANDARD
CAST-IRON PIPE	ASME B16.4; ASME B16.12; ASTM A 74; ASTM A 888; CISP1301
POLYVINYL CHLORIDE (PVC) IN IPS DIAMETERS	ASTM D 2665; ASTM F 1866
POLYVINYL CHLORIDE (PVC) PLASTIC PIPE IN SEWER AND DRAIN DIAMETERS	ASTM D 3034
POLYVINYL CHLORIDE (PVC) PLASTIC PIPE WITH A 3.25-INCH G.D.	ASTM D 2949

IPC TABLE 704.1 SLOPE OF HORIZONTAL DRAINAGE PIPE	
SIZE (INCHES)	MINIMUM SLOPE (INCH PER FOOT)
2-1/2 OR LESS	1/4
3 TO 6	1/8

PLUMBING FIXTURE SCHEDULE

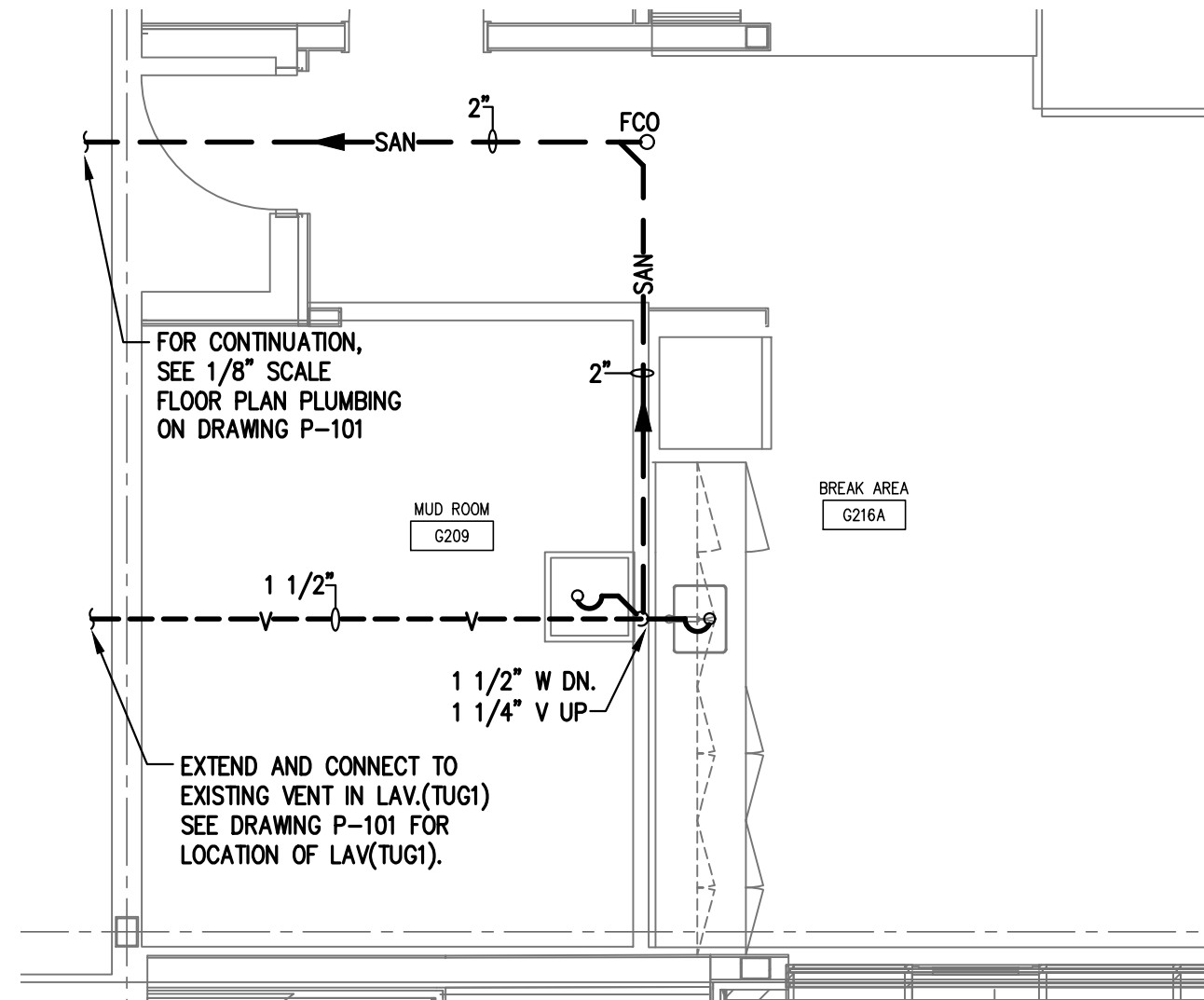
MARK	FIXTURE	MANUFACTURER	MODEL	CW	HW	DRAIN	VENT	REMARKS
P-1	WATER CLOSET	KOHLER	K-4330	1"	N/A	4"	2"	ADA COMPLIANT, VITREOUS CHINA, TOP SPUD, 1.6 GPF, ELONGATED TOILET BOWL, WITH MODEL "K-4670-CA", ANTIMICROBIAL AGENT, SEAT WITH CHECK HINGE AND SLOAN MODEL "G2 B111-1.6" BATTERY OPERATED, ADA COMPLIANT, TOP SPUD SENSOR, FLUSHOMETER.
P-2	URINAL	KOHLER	K-4991-ET	3/4"	N/A	2"	1 1/2"	VITREOUS CHINA, WALL HUNG, HIGH-EFFICIENCY, ADA COMPLIANT, URINAL WITH SLOAN MODEL "G2-8186-1.0" BATTERY OPERATED, ADA COMPLIANT, TOP SPUD FLUSH VALVE.
P-3	HANDWASH SINK	SLOAN	AD-8300	1/2"	1/2"	1 1/2"	1 1/4"	ADA COMPLIANT 3-STATION WALL MOUNTED SINK AND SLOAN AUTOMATED SENSOR FAUCET EFX.
P-4	LAVATORY	KOHLER	K-2005	1/2"	1/2"	1 1/2"	1 1/4"	WALL HUNG, ADA COMPLIANT, VITREOUS CHINA, LAVATORY WITH GRID DRAIN AND SLOAN ADA COMPLIANT SENSOR FAUCET MODEL "2300" WITH PLUG-IN POWER SUPPLY AND INTEGRAL MIXING VALVE.
P-5	SINK	ELKAY	LRAD172055	1/2"	1/2"	1 1/2"	1 1/4"	STAINLESS STEEL, SINGLE BOWL, DROP-IN, ADA COMPLIANT, SINK WITH "LK-99" STRAINER. MOEN MODEL "87201", ADA COMPLIANT, SINGLE HANDLE, FAUCET LESS SPRAY.
P-6	JANITOR'S SINK	FIAT	P-1	1/2"	1/2"	1 1/2"	1 1/4"	FLOOR MOUNTED, SINGLE BASIN, POLY TUB WITH A-1 DECK FAUCET WITH 6 1/2" SPOUT.
P-7	WATER COOLER	ELKAY	L2STL8WWSK	1/2"	N/A	1 1/2"	1 1/4"	WALL MOUNTED, ADA COMPLIANT, BI-LEVEL, FILTERED WATER, WATER COOLER WITH FRONT AND SIDE PUSH BARS AND BOTTLE FILLER STATION.
P-8	TRENCH DRAIN	ZURN	Z880	N/A	N/A	2"	1 1/2"	48" LONG HIGH DENSITY POLYETHYLENE TRENCH DRAIN WITH STAINLESS STEEL GRATE.
P-9	NON FREEZE WALL HYDRANT	WOODFORD	B-60	3/4"	N/A	N/A	N/A	PROVIDE WITH INTEGRAL AWMA BACKFLOW PREVENTER AND LOCABLE COVER. CONTRACTOR SHALL VERIFY WALL THICKNESS.

- NOTES:
1. CONTRACTOR SHALL REVIEW ALL CONTRACTOR FURNISHED PLUMBING FIXTURES WITH OWNER PRIOR TO PURCHASE.
 2. CONTRACTOR SHALL COORDINATE FIXTURE CARRIERS WITH ARCHITECTURAL DRAWINGS AND WALL TYPE.
 3. CONTRACTOR SHALL FURNISH AND INSTALL STOPS ON SUPPLY LINES TO ALL FIXTURES.
 4. CONTRACTOR SHALL FURNISH AND INSTALL ACCESS DOORS FOR ALL VALVES AS REQUIRED.
 5. ALL EXPOSED PIPING UNDER ADA ACCESSIBLE COUNTERTOP SINKS AND LAVATORIES SHALL BE INSULATED AND PROTECTED WITH PREFABRICATED MOLDED COVERS AS MANUFACTURED BY PLUMBEREX OR EQUAL.
 6. CONTRACTOR SHALL PROVIDE INDIVIDUAL TRANSFORMERS FOR ALL ELECTRONIC FAUCETS AND FLUSH VALVES.



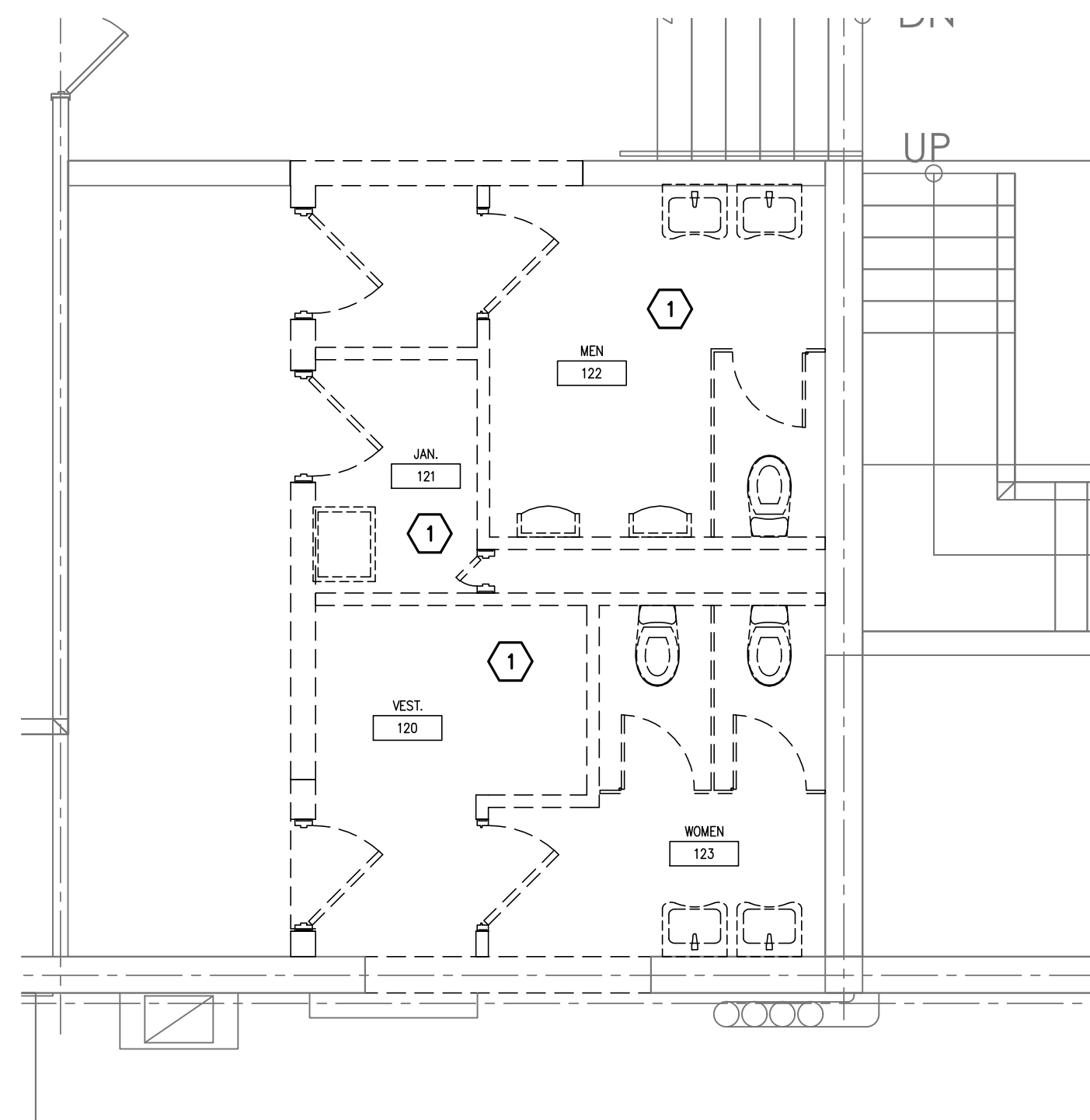
PARTIAL FLOOR PLAN SANITARY & VENT

SCALE 1/4" = 1'-0"



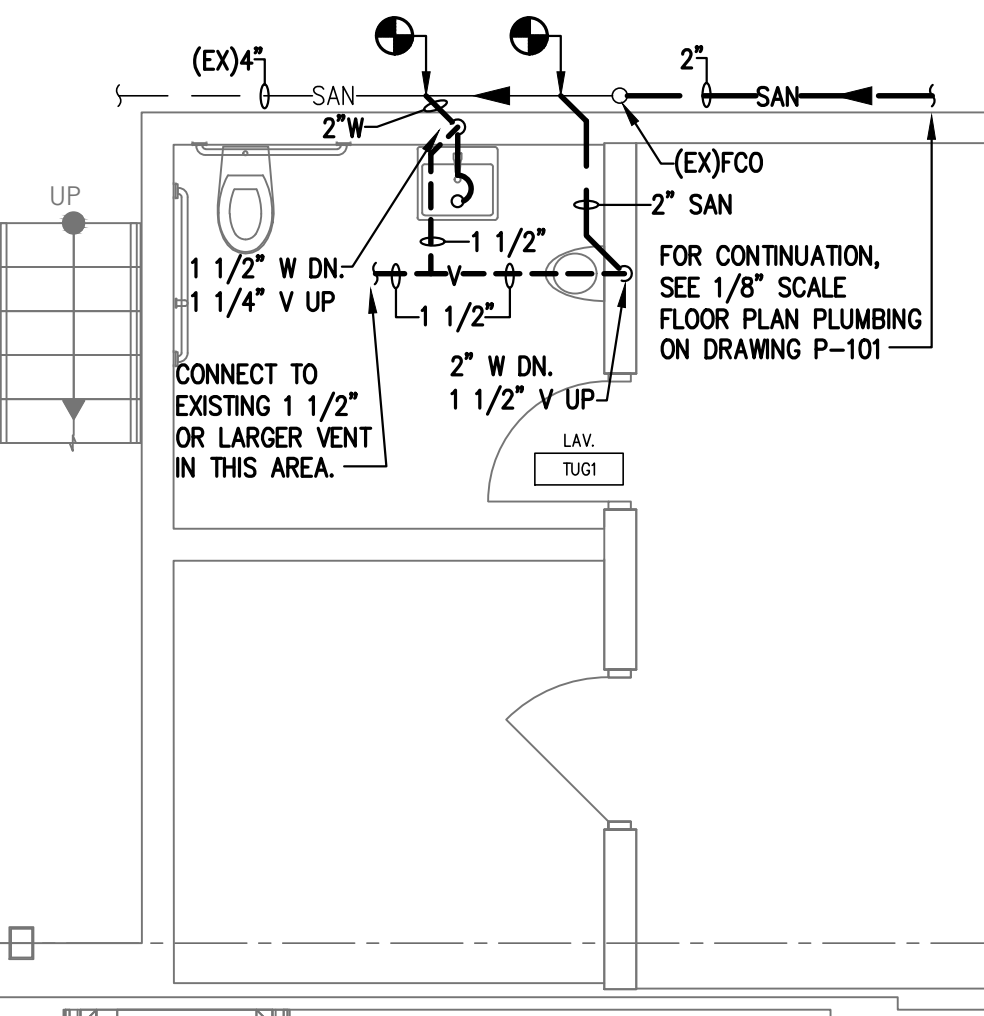
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SCALE 1/4" = 1'-0"



DEMOLITION NOTES

1. CONTRACTOR SHALL REMOVE EXISTING LAVATORIES, URINALS, WATER CLOSETS AND JANITOR SINK. HOT AND COLD WATER PIPES SHALL BE REMOVED AND CAPPED AS CLOSE TO MAIN AS POSSIBLE TO MINIMIZE DEAD END PIPES. VENT LINES SHALL BE REMOVED AND CAPPED AS CLOSE TO MAIN AS POSSIBLE. CONTRACTOR SHALL FIELD VERIFY IF VENT THRU ROOF IS REQUIRED. IF VENT THRU ROOF IS NOT REQUIRED, CAP VENT ABOVE ROOF AND BELOW ROOF. SANITARY LINES BELOW FLOOR SHALL BE ABANDONED IN A MANNER ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.



PARTIAL FLOOR PLAN SANITARY & VENT

SCALE 1/4" = 1'-0"



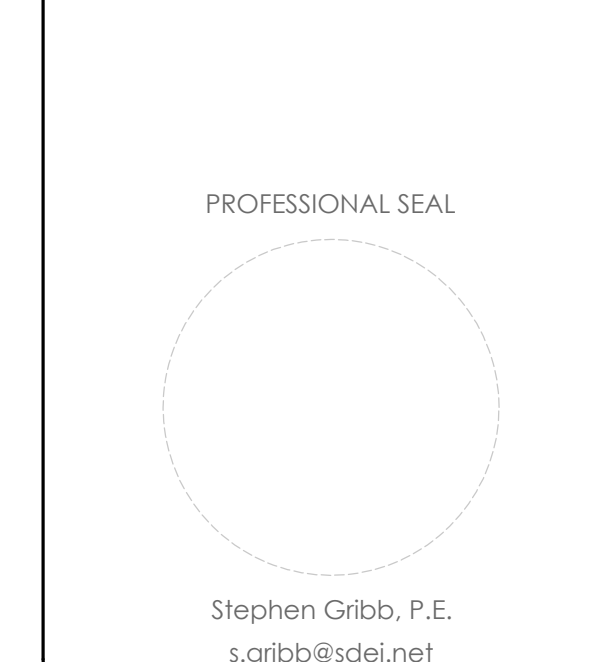
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REV.	DESCRIPTION	DATE

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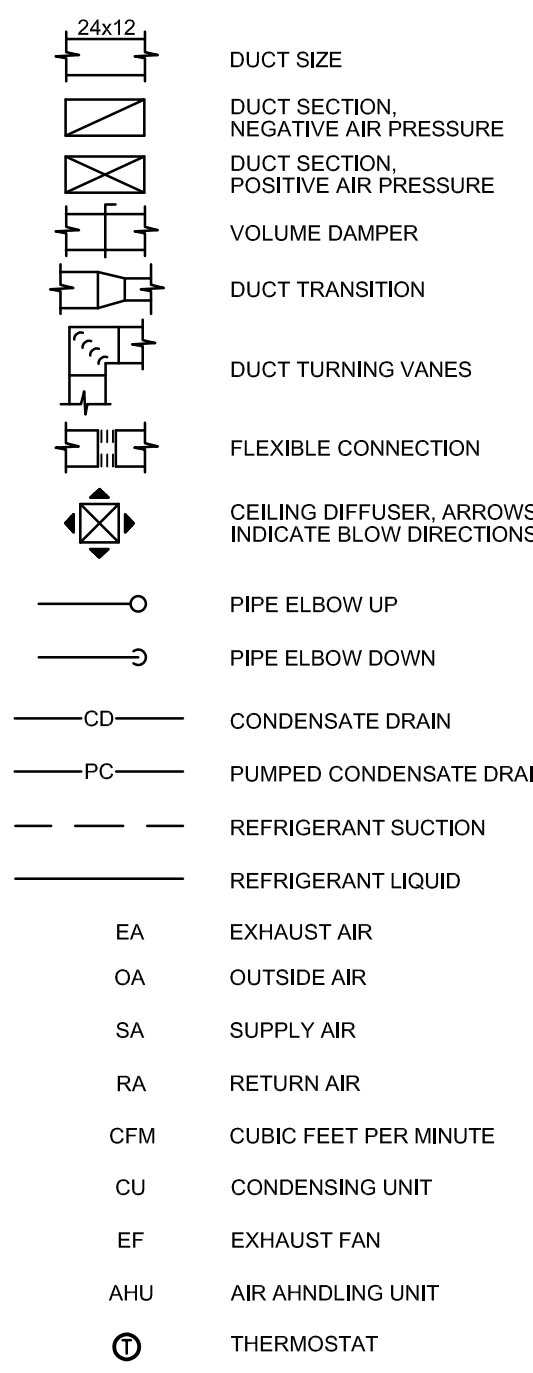
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BAR & CASE (1) EACH LOCUS ON ORIGINAL DRAWING
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PARTIAL FLOOR PLANS SANITARY & VENT

P-102

HVAC LEGEND



GENERAL NOTES:

- CONTRACTOR SHALL EXAMINE ALL CONSTRUCTION DOCUMENTS AND VISIT THE SITE TO BECOME ACQUAINTED WITH THE CONSTRUCTION AND THE EXTENT OF THE WORK.
- CONTRACTOR SHALL PROVIDE ALL MATERIAL AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED AND AS REQUIRED BY CODE, WHETHER SPECIFIED OR IMPLIED.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2021 INTERNATIONAL MECHANICAL CODE AND ALL OTHER REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION.
- CONTRACTOR SHALL GIVE ALL NOTICES, OBTAIN AND PAY FOR ALL PERMITS, DEPOSITS AND FEES NECESSARY.
- DO NOT SCALE THE DRAWINGS FOR EXACT DIMENSIONS. THE DESIGN DRAWINGS ARE DIAGRAMMATIC AND INDICATED THE GENERAL LAYOUT AND CONNECTIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS, DIMENSION, ETC AT THE JOB SITE.
- CONTRACTOR SHALL REVIEW THE WORK OF OTHER TRADES TO PREVENT INTERFERENCE BETWEEN BEAMS, STRUCTURES, PIPING, LIGHTING FIXTURES ETC. BEFORE PROCEEDING WITH NEW WORK.
- CONTRACTOR SHALL GUARANTEE THE ENTIRE JOB AGAINST DEFECTS IN WORKMANSHIP AND MATERIAL FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE. THIS GUARANTEE SHALL BE BINDING REGARDLESS OF MANUFACTURER'S GUARANTEE AND CONTRACTOR SHALL REMOVE AND REPLACE ALL DEFECTIVE MATERIAL REGARDLESS OF CAUSE (EXCEPT FOR DEFECTS TRACEABLE TO IMPROPER MAINTENANCE OR MALICIOUS DESTRUCTION OCCURRING AFTER THE SYSTEM HAS BEEN TURNED OVER).
- ALL MATERIALS USED ANYWHERE IN THE WORK SHALL HAVE NFPA RATING AS FOLLOWS:
A. FLAME SPREAD-HOT OVER 25
B. SMOKE DEVELOPED- NOTE OVER 50
C. FUEL CONTRIBUTED- NOTE OVER 25
- SUBMIT TO THE ENGINEER FOR APPROVAL. ELECTRONIC COPIES SPECIFICATION SHEETS OF ALL EQUIPMENT SUPPLIED OR INSTALLED AS PART OF THIS WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OR EXCEEDING WALL/CEILING/FLOOR ASSEMBLY RATINGS FOR ALL PENETRATIONS. CONTRACTOR SHALL VERIFY LOCATION AND RATING OF ALL FIRE ASSEMBLIES AND PROVIDE INTUMESCENT COLLARS AT ALL PIPE PENETRATIONS FIRE DAMPERS WITH ACCESS PANELS AT ALL DUCT PENETRATION AND FIRE RATED CAULKING AS REQUIRED.
- ALL MECHANICAL EQUIPMENT AND APPLIANCES INSTALLED SHALL BEAR THE LABEL OF AN APPROVED AGENCY.
- ALL TEST SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT INSULATION IS APPLIED.
- EQUIPMENT AND MATERIAL ARE SPECIFIED TO ESTABLISH A STANDARD OF QUALITY. ALL MATERIAL AND EQUIPMENT USED FOR THIS CONTRACT SHALL BE NEW AND UNUSED AND OF THE LATEST MODEL OR DESIGN AVAILABLE.
- THE CONTRACTOR SHALL FURNISH AND INSTALL ALL STRUCTURAL STEEL, SUPPORTS, BRACES, HANGERS, ETC. REQUIRED FOR HIS CONTRACT UNLESS OTHERWISE NOTED. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT SUPPORT LOCATION AND INSTALLATION WITH ROOFING AND STRUCTURAL CONTRACTOR.
- ALL DUCT SIZES SHOWN ARE INSIDE CLEAR
- MAXIMUM ALLOWABLE LENGTH FOR FLEXIBLE DUCT IS SIX (6') FEET.
- MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ALL CUTTING AND PATCHING EITHER ENGAGING HIS OWN GENERAL SUBCONTRACTOR OR ONE QUALIFIED BY THE OWNER.
- CONTRACTOR SHALL INFORM THE ENGINEER OF ANY QUESTIONS OR DISCREPANCIES PRIOR TO PRECURSOR AND/OR FABRICATION OF ANY MATERIAL AND INSTALLATION.
- INSTALL ALL EQUIPMENT IN ACCORDANCE TO THE MANUFACTURER'S WRITTEN GUIDELINES.
- MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONNECTION, SUPPORTS, TERMINATIONS, AND ACCESSORIES ASSOCIATED WITH AIR HANDLING UNITS, FANS, ETC.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR WHO WILL PROVIDE POWER WIRING TO ALL MECHANICAL EQUIPMENT. MECHANICAL CONTRACTOR SHALL PROVIDE ALL CONTROLS AND INTERCONNECTING WIRING AND ACCESSORIES.
- ALL EXTERIOR WALL OPENINGS SHALL BE SLEEVED, PROPERLY CAULKED AND SEALED WITH A HIGH QUALITY SEALANT TO PREVENT INFILTRATION OF MOISTURE AND OUTSIDE AIR.
- PROVIDE VOLUME DAMPERS AT ALL DUCT BRANCHES AND RUNOUTS. AND ELSEWHERE AS REQUIRE TO FACILITATE SYSTEM AIR BALANCING.
- PROVIDE FLEXIBLE CONNECTIONS ON ALL DUCTS AND PIPING CONNECTIONS TO ANY MOTOR DRIVEN MECHANICAL EQUIPMENT (IE. FANS, AIR HANDLERS, PUMPS, ETC.). INSTALL FLEXIBLE COPPER GROUNDING STRAPS ACROSS ALL FLEXIBLE CONNECTIONS.
- THE INSIDE OF ALL DUCTWORK VISIBLE THROUGH A GRILLE OR DIFFUSER SHALL BE PAINTED FLAT BLACK.
- ACCESS PANELS SHALL BE PROVIDED TO SERVICE ALL DAMPERS AND CONCEALED MECHANICAL EQUIPMENT.
- FINAL LOCATIONS FOR MOUNTING ALL THERMOSTATS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO INSTALLING ANY CONTROL WORK.
- UPON COMPLETION OF THE WORK, REMOVE ALL EXCESS MATERIAL, DEBRIS, TOOLS, AND EQUIPMENT FROM THE SITE, AND LEAVE THE PREMISES IN A BROOM CLEAN CONDITION.
- CONTRACTOR SHALL PROVIDE AN ELECTRONIC COPY OF OPERATING AND MAINTENANCE INSTRUCTIONS. CONTRACTOR SHALL INSTRUCT THE OWNER OR HIS AGENT WITH REGARD TO THE PROPER USE OF THE SYSTEM UNTIL SUCH INSTRUCTION IS COMPLETE TO THE OWNER'S SATISFACTION.
- ALL MECHANICAL SYSTEMS SHALL BE TESTED, ADJUSTED AND BALANCED. TESTING, ADJUSTING, AND BALANCING AGENCY SHALL BE A MEMBER OF THE ASSOCIATED AIR BALANCING COUNCIL (AABC) OR THE NATIONAL ENVIRONMENTAL BALANCING BUREAU (NEBB). TESTING, ADJUSTING, AND BALANCING SHALL BE PERFORMED IN ACCORDANCE WITH THE AABC STANDARDS.
- NEW HVAC SYSTEM CONTROLS MUST BE CONNECTED TO EXISTING BAS SYSTEM, NRG PROPRIETARY SYSTEM.

MATERIALS OF CONSTRUCTION:

DUCTWORK:
EXHAUST DUCTWORK: HOT DIPPED GALVANIZED SHEET METAL, ASTM-A-525. FABRICATE AND INSTALL IN ACCORDANCE WITH THE LATEST EDITION OF THE 'SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.' SMACNA APPROVED JOINTS, SEAMS AND REINFORCING FOR ±3" W.G.

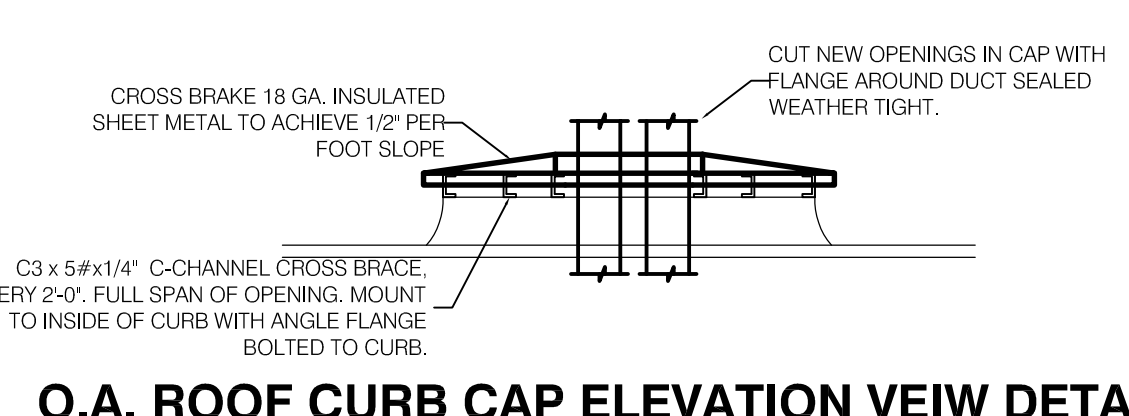
SUPPLY, RETURN, AND OUTSIDE AIR DUCTWORK: HOT DIPPED GALVANIZED SHEET METAL, ASTM-A-525. FABRICATE AND INSTALL IN ACCORDANCE WITH THE LATEST EDITION OF THE 'SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.' SMACNA APPROVED JOINTS, SEAMS AND REINFORCING FOR ±3" W.G. DUCTWORK SHALL INSULATED WITH FIBERGLASS BLANKET, 3" THICK 1-1/2" P.C.F DENSITY WITH A MINIMUM R VALUE OF 6.0. PROVIDE WITH ALL PURPOSE JACKET AND VAPOR RETARDER.

FLEXIBLE DUCTWORK: POLYESTER LAMINATED STEEL WIRE INNER CORE, R-6 LOW DENSITY FIBERGLASS BLANKET INSULATION WITH REINFORCED POLYESTER OUTER JACKET AND VAPOR BARRIER, UL STD. 181 APPROVED, CLASS 1 CONNECTOR. FLEXIBLE DUCTWORK SHALL BE LIMITED TO 6'-0" IN LENGTH.

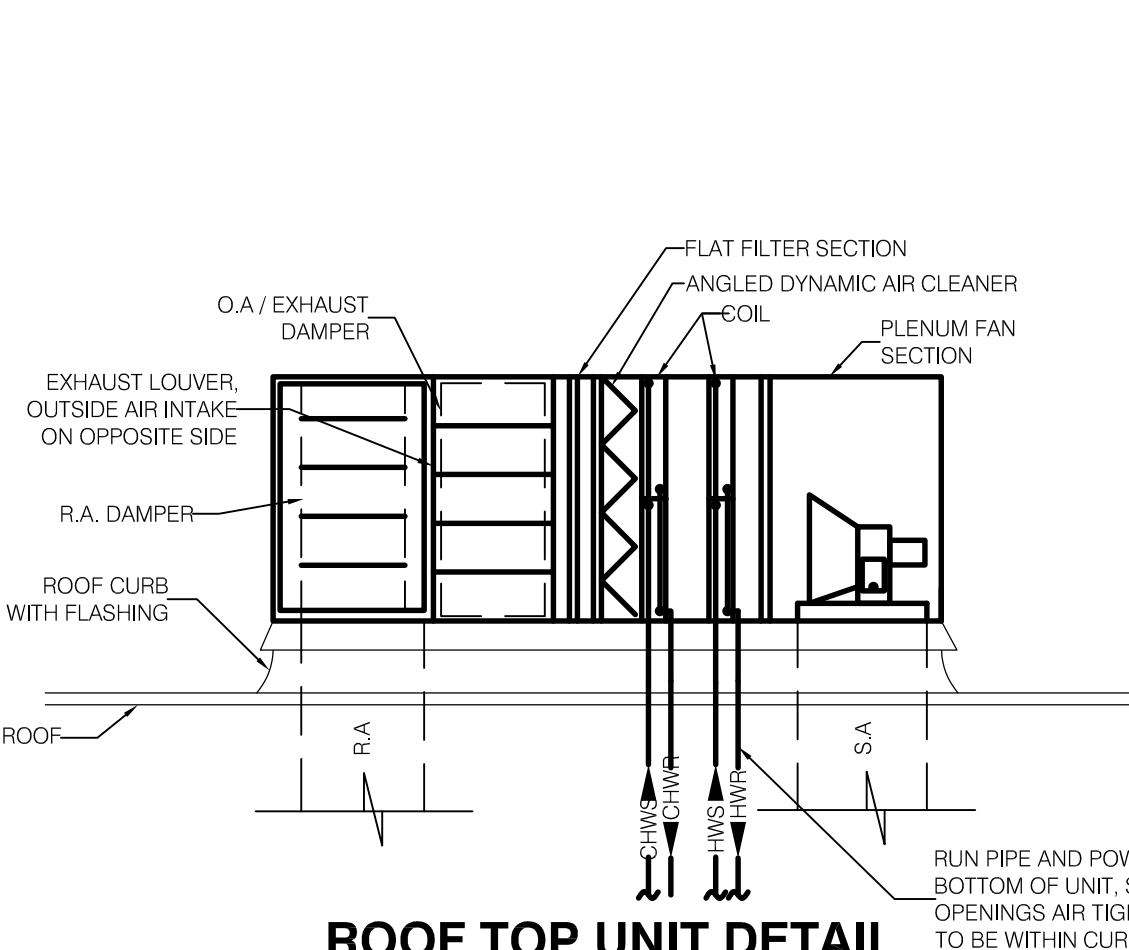
VOLUME DAMPERS: SHALL BE MULTIBLADE TYPE, CONSTRUCTED OF ASTM-A-525 HOT DIPPED GALVANIZED SHEET METAL. FABRICATE DAMPERS IN ACCORDANCE WITH THE LATEST EDITION OF THE 'SMACNA HVAC DUCT CONSTRUCTION STANDARDS - METAL AND FLEXIBLE.'

DUCTWORK SEALANT: ALL DUCTWORK SEAMS AND JOINTS SHALL BE SEALED WITH A NON-HARDENING, NON-MIGRATING SEALANT. 3X MAXIMUM ALLOWABLE DUCT SYSTEM LEAKAGE. SEALANT SHALL BE CLEAR IN COLOR.

DUCTWORK SUPPORT MATERIALS: GALVANIZED STEEL FASTENERS, ANCHORS, RODS, STRAPS, AND TRIM.



O.A. ROOF CURB CAP ELEVATION VIEW DETAIL



ROOF TOP UNIT DETAIL

EXHAUST FAN SCHEDULE

TAG	TYPE	MOUNTING	CFM	ESP"	DRIVE	FAN RPM	MOTOR WATTS	VOLTAGE	BASIS OF DESIGN		NOTES
									MANUFACTURER	MODEL	
EF-1	EXHAUST	CEILING	100	.25	DIRECT	817	17	115/60/1	GREENHECK	SP-A0511W	1,3,4
EF-2	EXHAUST	CEILING	75	.25	DIRECT	1400	52.4	115/60/1	GREENHECK	SP-A190	3,4
EF-3	EXHAUST	CEILING	300	.25	DIRECT	1000	67	115/60/1	GREENHECK	SP-A250	1,2,3
EF-2	EXHAUST	CEILING	50	.25	DIRECT	1400	52.4	115/60/1	GREENHECK	SP-A190	1,2,3,4

- NOTES:
- PROVIDE FAN WITH ECM MOTOR.
 - SEE ELECTRICAL DRAWINGS FOR CONTROL FROM LIGHT RELAY
 - PROVIDE ROOF VENT CAP
 - PROVIDE LOCAL SWITCH CONTROL FOR CONTINUOUS OPERATION

DIFFUSER SCHEDULE

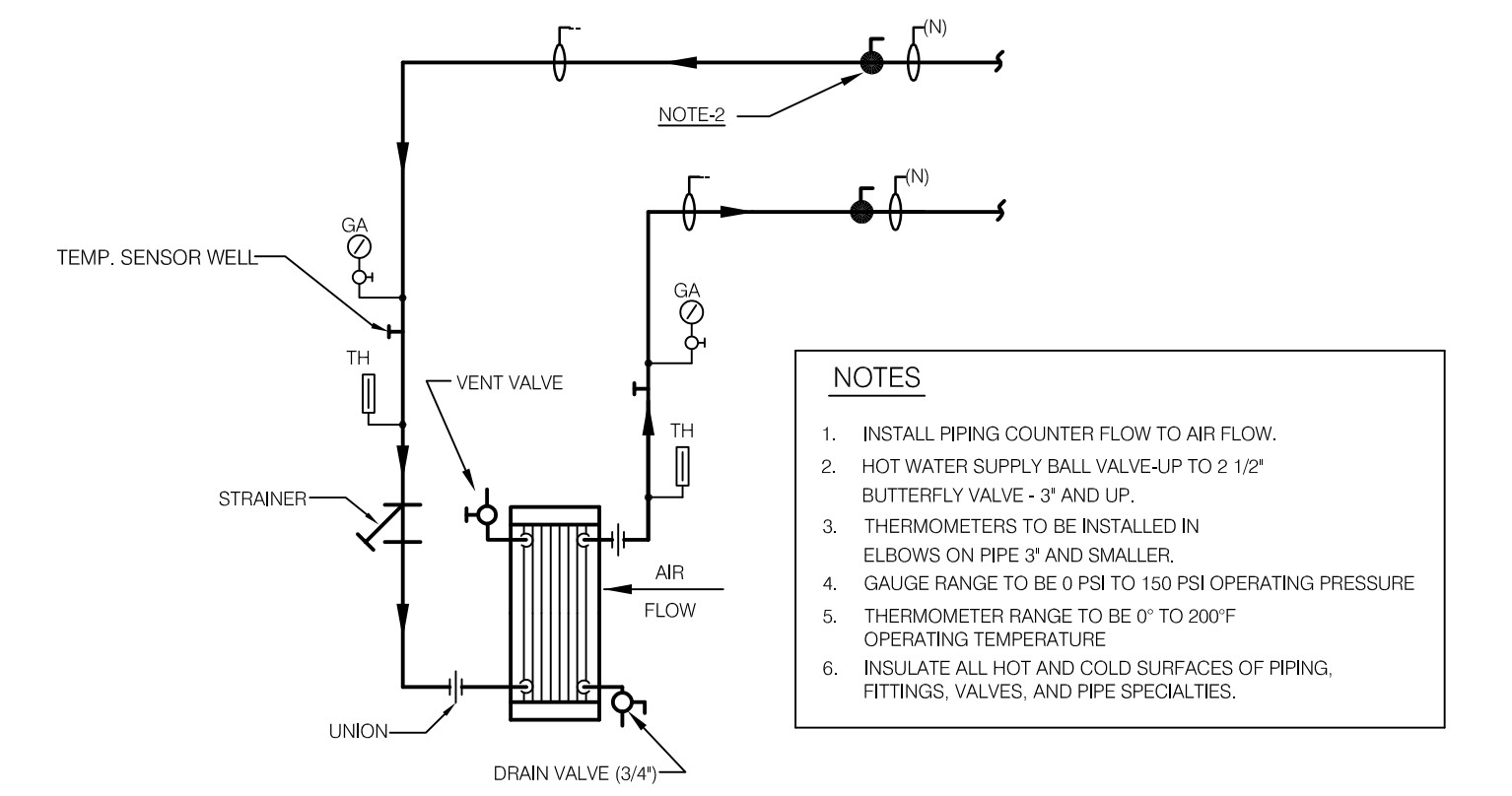
TAG	SIZE	NECK	BLOW	BORDER	MANUFACTURER	MODEL	NOTES
CD-1	24x24	DUCT SIZE	HORIZONTAL	LAY-IN	TITUS	OMNI	1
CD-2	12x12	DUCT SIZE	HORIZONTAL	LAY-IN	TITUS	OMNI	1

- NOTES:
- MANUFACTURER'S STANDARD BAKED WHITE ENAMEL FINISH

GRILLE SCHEDULE

TAG	SIZE	BORDER	MANUFACTURER	MODEL	NOTES
RG-1	24x24	LAY-IN	TITUS	350RL	1
RG-2	12x12	LAY-IN	TITUS	350RL	1

- NOTES:
- MANUFACTURER'S STANDARD BAKED WHITE ENAMEL FINISH



PIPING ARRANGEMENT- HOT WATER COIL

- NOTES:
- INSTALL PIPING COUNTER FLOW TO AIR FLOW.
 - HOT WATER SUPPLY BALL VALVE UP TO 2 1/2" BUTTERFLY VALVE - 3" AND UP.
 - THERMOMETERS TO BE INSTALLED IN ELBOWS ON PIPE 2" AND SMALLER.
 - GAUGE RANGE TO BE 0 PSIG TO 150 PSIG OPERATING PRESSURE.
 - THERMOMETER RANGE TO BE 0° TO 200°F OPERATING TEMPERATURE.
 - INSULATE ALL HOT AND COLD SURFACES OF PIPING, FITTINGS, VALVES, AND PIPE SPECIALTIES.

AHU SCHEDULE

Air Handling Unit Data		Supply Fan Data				Chilled Water Coil					Hot Water Heating Coil																	
Tag	Model No.	Max. Length (in.)	Max. Height (in.)	Max. Width (in.)	Max. Weight (lbs)	Airflow (CFM)	E.S.P. (in. w.g.)	Drive	HP	Voltage	HP Each	EAT-DB (°F)	EAT-WB (°F)	LAT-DB (°F)	LAT-WB (°F)	TMBH	SMBH	Flow Rate (gpm)	EWT (°F)	LWT (°F)	Max. Water Pressure Drop (ft/w.c.)	EAT-DB (°F)	LAT-DB (°F)	MBH	Flow Rate (gpm)	EWT (°F)	LWT (°F)	Max. Water Pressure Drop (ft/w.c.)
AHU-1	JCI Solution-XTI-51x42	137	57	42	2186	4000	1.25	Belt Drive	5.0	208/3/60	5.0	79.40	66.20	54.93	53.83	146.8	105.6	27.0	42.0	52.82	9.4	59.00	83.74	109.0	8.90	190.0	164.58	0.30
AHU-2	JCI Solution-XTO-42x36	179	42	36	2627	2500	1.25	Belt Drive	2.0	208/3/60	2.0	82.00	68.40	54.32	53.52	112.6	74.6	24.4	42.0	51.18	3.70	46.00	102.2	147.0	7.00	190.0	46.69	0.50
AHU-3	JCI Solution-XTO-45x66	200	45	66	3853	6450	1.25	Belt Drive	5.0	208/3/60	5.0	79.00	66.00	51.76	51.22	275.7	189.8	55.0	42.0	51.98	4.90	54.00	89.17	252.6	14.0	190.0	152.81	0.90
AHU-4	JCI Solution-XTO-39x63	190	39	63	3394	5100	1.25	Belt Drive	5.0	208/3/60	5.0	78.30	65.40	57.08	55.19	155.7	117.1	38.6	42.0	50.03	5.60	63.00	79.11	90.00	3.60	190.0	138.40	0.10
AHU-5	JCI Solution-XTO-69x81	201	69	81	5521	13600	1.25	Belt Drive	10.0	208/3/60	10.0	77.90	65.00	56.04	54.55	420.6	321.8	78.0	45.0	55.74	7.10	65.40	80.97	231.3	7.00	190.0	121.81	0.20
AHU-6	JCI Solution-XTO-36x45	186	36	45	2794	2850	1.25	Belt Drive	3.0	208/3/60	3.0	80.80	67.30	57.43	56.28	96.50	71.9	19.2	42.0	52.00	1.90	60.00	103.0	135.3	6.00	190.0	143.50	0.30

- Notes:
- Provide Angle Filter rack with (2) sets of 2" MERV 8 Filters
 - Provide 2 foot deep Pipe Chase at Cooling Coil and Heating Coil Sections
 - Provide Full perimeter 6" tall Base Rail
 - Provide Service Lights in all accessible sections and Convenience Outlet at the Supply Fan Section
 - Provide Factory mounted and wired VFD with Disconnect Switch
 - Provide 14" tall roof curb

PACKAGED ROOFTOP UNIT SCHEDULE (HW HEAT/DX COOLING)

TAG	MANUFACTURER	MODEL	AREA SERVED	CFM		SUPPLY FAN		DX COOLING (MODULATING)								HOT WATER HEAT				FILTER	ELECTRICAL CHARACTERISTICS			OPERATING WEIGHT (LB)	NOTES		
				SA	OA	HP	TSP INCH	ESP INCH	MWH (TOT)	MWH (SENS)	EAT		LAT		REFRIG (TYP)	MWH (N)	HWC #	AIR			WATER		VOLT/PH/HZ			MCA	MOCP
				DB	WB	DB	WB	DB	WB	DB	WB	EWT	LWT														
RTU-7	JCI	A025C0C02E1A1T1282	BCCD	7435	657	7.5	-	1.25	290.6	200.5	77.2	65.6	54.8	54.0	R-410A	153	7	63.6	--	190	160	MERV-8	208/3/60	143.7	175	2325	1 THROUGH 4
RTU-8	JCI	ZJ120C00R2B8BA2A3	Maintenance area	3344	291	3.4	-	1.25	121.4	84.0	77.3	65.8	54.0	53.8	R-410A	62	8	63.0	--	190	160	MERV-8	208/3/60	54.9	60	1185	1 THROUGH 4
RTU-9	JCI	ZJ061C00E2B8BA2A4	Shared Conference Room	1500	309	1.5	-	1.25	62.0	35.6	79.1	68.1	57.1	55.0	R-410A	32	9	63.0	--	190	160	MERV-8	208/3/60	34	45	930	1 THROUGH 4

- Notes:
- Provide Angle Filter rack with (2) sets of 2" MERV 8 Filters
 - Provide Service Lights in all accessible sections and Convenience Outlet at the Supply Fan Section
 - Provide Factory mounted and wired VFD with Disconnect Switch
 - Provide 14" tall roof curb, Economizer, and Outside Air Hood

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SHEET TITLE:
HVAC GENERAL NOTES, LEGEND & SCHEDULE

H001

SECTION 230993 - SEQUENCE OF OPERATIONS FOR HVAC CONTROLS

PART 1 - GENERAL

- 1.1 RELATED DOCUMENTS
- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- 1.2 SUMMARY
- A. This Section includes control sequences for HVAC systems, subsystems, and equipment.
- B. Related Sections include the following:
- Section 230900 "Instrumentation and Control for HVAC" for control equipment and devices and for submittal requirements.
- 1.3 DEFINITIONS
- A. DDC: Direct digital control.
- 1.4 AIR HANDLING UNIT (AHU-1-9)
- A. Space temperature: The controls shall function to maintain the following space temperatures:
- Occupied Heating: 70° F (ADJ).
 - Unoccupied Heating: 55° F (ADJ).
 - Occupied Cooling: 72° F (ADJ).
 - Unoccupied Cooling 80° F (ADJ).
- B. Occupied/ Unoccupied Operation:
- Occupied/unoccupied operational mode shall be set based on a time schedule that allows for a minimum of four programs per day /7 days per week.
 - Time schedule shall be programmed through the DDC system controls.
- C. Safeties: The equipment shall have the following safety features:
- Freeze Stat: An averaging temperature element shall be serpentine across the discharge face of the heating coil and shall be hardwired through the motor starter to shut down the fan and signal a DDC system alarm if the temperature drops below 36° F (ADJ.) A trip of the freeze stat shall require manual reset.
 - Smoke Control: A duct-mounted smoke detector, located in the return air ductwork shall be hard wired through the motor starter to shut down the fan and signal a DDC system alarm if products of combustion are sensed. A trip of the smoke detector shall require manual reset.

SEQUENCE OF OPERATIONS FOR HVAC CONTROLS 230993 - 1

- D. Fan Control: The following sequence of operation shall apply to the supply fan.
- During scheduled occupied periods the fan shall be energized and shall run continuously.
 - During scheduled unoccupied periods the fan shall cycle on/off with a call for unoccupied heating or cooling.
 - The DDC control system shall preform optimal stop/start of the supply fan for warm-up and cool-down periods based on historical outdoor temperature trends and indoor temperatures.
 - During occupied, non-economizer periods the fan speed will modulate through the VFD between minimum and maximum to maintain an O.A. percentage of 25% (ADJ.) as the O.A. damper closes in response to demand control ventilation.
- E. Ventilation:
- Occupied/unoccupied operation shall be set based on a DDC system time schedule.
 - Heating Operation:
 - During unoccupied heating the outside air damper shall be closed and the return air damper shall be open.
 - During warm up periods the outside air damper shall remain closed and the return air damper shall remain open until the space reaches the occupied temperature setpoint and switches to occupied mode.
 - During occupied heating the outside and return air dampers shall open to minimum outside air position. A CO2 sensor located in the return duct shall allow the outside air damper to modulate towards closed and the return air damper to modulate open to raise the return air CO2 to 700 ppm (ADJ.) above outdoor ambient CO2. On a rise above 700 ppm CO2 differential the dampers shall modulate in the reverse direction.
 - Cooling Operation:
 - During unoccupied cooling the outside air damper shall be closed and the return air damper shall be open.
 - During cool down periods the outside air damper shall remain closed and the return air damper shall remain open until the space reaches the occupied temperature setpoint and switches to occupied mode.
 - During occupied cooling the outside and return air dampers shall open to minimum outside air position. A CO2 sensor located in the return duct shall allow the outside air damper to modulate towards closed and the return air damper to modulate open to raise the return air CO2 to 700 ppm (ADJ.) above outdoor ambient CO2. On a rise above 700 ppm CO2 differential the dampers shall modulate in the reverse direction.
 - During economizer cooling (refer to cooling controls) the outside air and return air damper shall be capable of modulating between minimum position and full open O.A. to provide economizer cooling.
 - Anytime the unit is in economizer cooling the two position damper to gravity relief ventilator GRV-1 shall be open to allow barometric relief.
- F. Coordination of Air-Handling Unit Sequences: Ensure that heating-coil, cooling-coil and economizer controls have common inputs and do not overlap in function.
- G. Operator Station Display: Indicate the following on operator workstation display terminal:

SEQUENCE OF OPERATIONS FOR HVAC CONTROLS 230993 - 2

- DDC system on-off indication.
 - DDC system occupied/unoccupied mode.
 - Outdoor-air-temperature indication.
 - Supply-fan on-off indication.
 - Building static-pressure indication.
 - Mixed-air-temperature indication.
 - Position of outside air, return air, and relief air dampers.
 - Indoor Space Enthalpy.
 - Outdoor air enthalpy.
 - Filter air-pressure-drop indication.
 - Filter high-air-pressure set point.
 - Heating-coil air-temperature indication.
 - Heating-coil pump operation indication.
 - Heating-coil control-valve position.
 - Cooling-coil air-temperature indication.
 - Cooling-coil pump operation indication.
 - Cooling-coil control-valve position.
 - Room temperature indication.
 - Room temperature set point.
 - Discernable alarm indications.
- H. The equipment shall have the following safety features:
- Freeze Stat: An averaging temperature element shall be serpentine across the discharge face of the heating coil and shall be hardwired through the motor starter to shut down the fan and signal a DDC system alarm if the temperature drops below 36° F (ADJ.) A trip of the freeze stat shall require manual reset.
- I. Ventilation:
- Occupied/unoccupied operation shall be set based on a DDC system time schedule.
 - During unoccupied periods the outside air damper shall be closed and the return air damper shall be open.
 - During warm up or cool down periods the outside air damper shall remain closed and the return air damper shall remain open until the space reaches the occupied temperature setpoint and switches to occupied mode.
 - During occupied periods the outside and return air dampers shall open to minimum outside air position. A CO2 sensor located in the return duct shall allow the outside air damper to modulate towards closed and the return air damper to modulate open to raise the return air CO2 to 700 ppm (ADJ.) above outdoor ambient CO2. On a rise above 700 ppm CO2 differential the dampers shall modulate in the reverse direction.
- J. Heating:
- During scheduled unoccupied periods the AHU supply fan shall energize, and the hot water supply valve shall modulate open upon a call for heat (at unoccupied setpoint). The outside air damper shall remain closed and the return air damper shall remain open. The reverse shall occur when setpoint is satisfied.
 - During warm up periods the AHU supply fan shall energize, and the hot water supply valve shall modulate open upon a call for heat (at occupied setpoint). The outside air damper shall remain closed and the return air damper shall remain open until the setpoint is reached at which time the unit shall switch to occupied mode and the fan shall run continuously.

SEQUENCE OF OPERATIONS FOR HVAC CONTROLS 230993 - 3

- During scheduled occupied periods the hot water supply valve shall modulate open upon a call for heat (at occupied setpoint) The outside air and return air dampers shall be positioned in response to the return air/outside air CO2 differential. The reverse shall occur when setpoint is satisfied.
- K. Cooling:
- During scheduled unoccupied periods the AHU supply fan shall energize, and the chilled water supply valve shall modulate open upon a call for cooling (at unoccupied setpoint). The outside air damper shall remain closed and the return air damper shall remain open. The reverse shall occur when setpoint is satisfied.
 - During cool down periods the AHU supply fan shall energize, and the chilled water supply valve shall modulate open upon a call for cooling (at occupied setpoint). The outside air damper shall remain closed and the return air damper shall remain open until the setpoint is reached at which time the unit shall switch to occupied mode and the fan shall run continuously.
 - During scheduled occupied periods the chilled water supply valve shall modulate open. The outside air and return air dampers shall be positioned in response to the return air/outside air CO2 differential. The reverse shall occur when setpoint is satisfied.
- L. Coordination of Blower Coil Sequences: Ensure that heating-coil and cooling-coil controls have common inputs and do not overlap in function.
- M. Operator Station Display: Indicate the following on operator workstation display terminal:
- DDC system on-off indication.
 - DDC system occupied/unoccupied mode.
 - Outdoor-air-temperature indication.
 - Supply-fan on-off indication.
 - Mixed-air-temperature indication.
 - Position of outside air, return air, and relief air dampers.
 - Filter air-pressure-drop indication.
 - Filter high-air-pressure set point.
 - Heating-coil air-temperature indication.
 - Heating-coil control-valve position.
 - Cooling-coil air-temperature indication.
 - Cooling-coil control-valve position.
 - Room temperature indication.
 - Room temperature set point.
 - Discernable alarm indications.
- 1.5 CABINET HEATER OPERATING SEQUENCE:
- A. Space temperature: The controls shall function to maintain the following space temperatures:
- Occupied Heating: 70° F (ADJ).
 - Unoccupied Heating: 55° F (ADJ).
- B. Occupied/ Unoccupied Operation:
- Occupied/unoccupied operational mode shall be set based on a time schedule that allows for a minimum of four programs per day /7 days per week.
 - Time schedule shall be programmed through the DDC system controls.

SEQUENCE OF OPERATIONS FOR HVAC CONTROLS 230993 - 4

- C. Heating:
- During scheduled unoccupied periods the supply fan shall energize, and the hot water supply valve shall modulate open upon a call for heat (at unoccupied setpoint).
 - During scheduled occupied periods the supply fan shall energize, and the hot water supply valve shall modulate open upon a call for heat (at occupied setpoint).
- D. Operator Station Display: Indicate the following on operator workstation display terminal:
- DDC system on-off indication.
 - DDC system occupied/unoccupied mode.
 - Heating-coil control-valve position.
 - Room temperature indication.
 - Room temperature set point.
 - Fan failure alarm.
 - Control valve failure alarm.
- 1.6 CONVECTOR OPERATING SEQUENCE:
- A. Space temperature: The controls shall function to maintain the following space temperatures:
- Occupied Heating: 70° F (ADJ).
 - Unoccupied Heating: 55° F (ADJ).
- B. Occupied/ Unoccupied Operation:
- Occupied/unoccupied operational mode shall be set based on a time schedule that allows for a minimum of four programs per day /7 days per week.
 - Time schedule shall be programmed through the DDC system controls.
- C. Heating:
- During scheduled unoccupied periods the hot water supply valve shall modulate open upon a call for heat (at unoccupied setpoint).
 - During scheduled occupied periods the hot water supply valve shall modulate open upon a call for heat (at occupied setpoint).
- D. Operator Station Display: Indicate the following on operator workstation display terminal:
- DDC system occupied/unoccupied mode.
 - Heating-coil control-valve position.
 - Room temperature indication.
 - Room temperature set point.
 - Control valve failure alarm.
- 1.7 EXHAUST FANS :
- A. Occupied/ Unoccupied Operation:
- Occupied/unoccupied operational mode shall be set based on a time schedule that allows for a minimum of four programs per day /7 days per week.
 - Time schedule shall be programmed through the DDC system controls.

SEQUENCE OF OPERATIONS FOR HVAC CONTROLS 230993 - 5

- During scheduled unoccupied periods the fan shall off.
 - During scheduled occupied periods the fan shall be on and shall run continuously.
- B. Operator Station Display: Indicate the following on operator workstation display terminal:
- DDC system occupied/unoccupied mode.
 - Fan on/off status.
 - Fan failure alarm.
- PART 2 - PRODUCTS (Not Applicable)
- PART 3 - EXECUTION (Not Applicable)
- END OF SECTION 230993

SEQUENCE OF OPERATIONS FOR HVAC CONTROLS 230993 - 6

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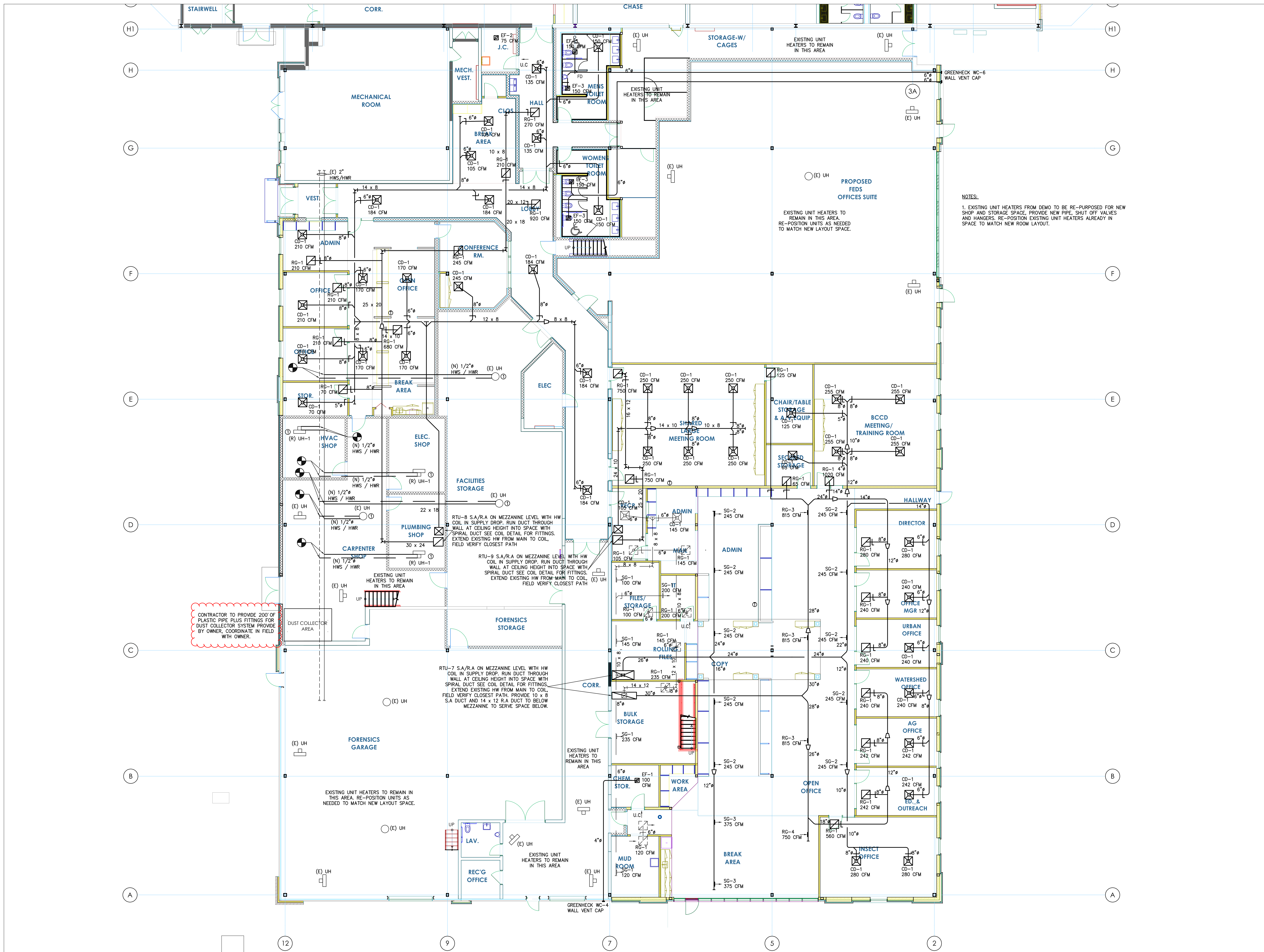
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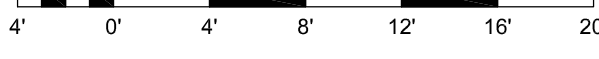
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HVAC SEQUENCE OF OPERATIONS

H002



FIRST FLOOR HVAC PLAN

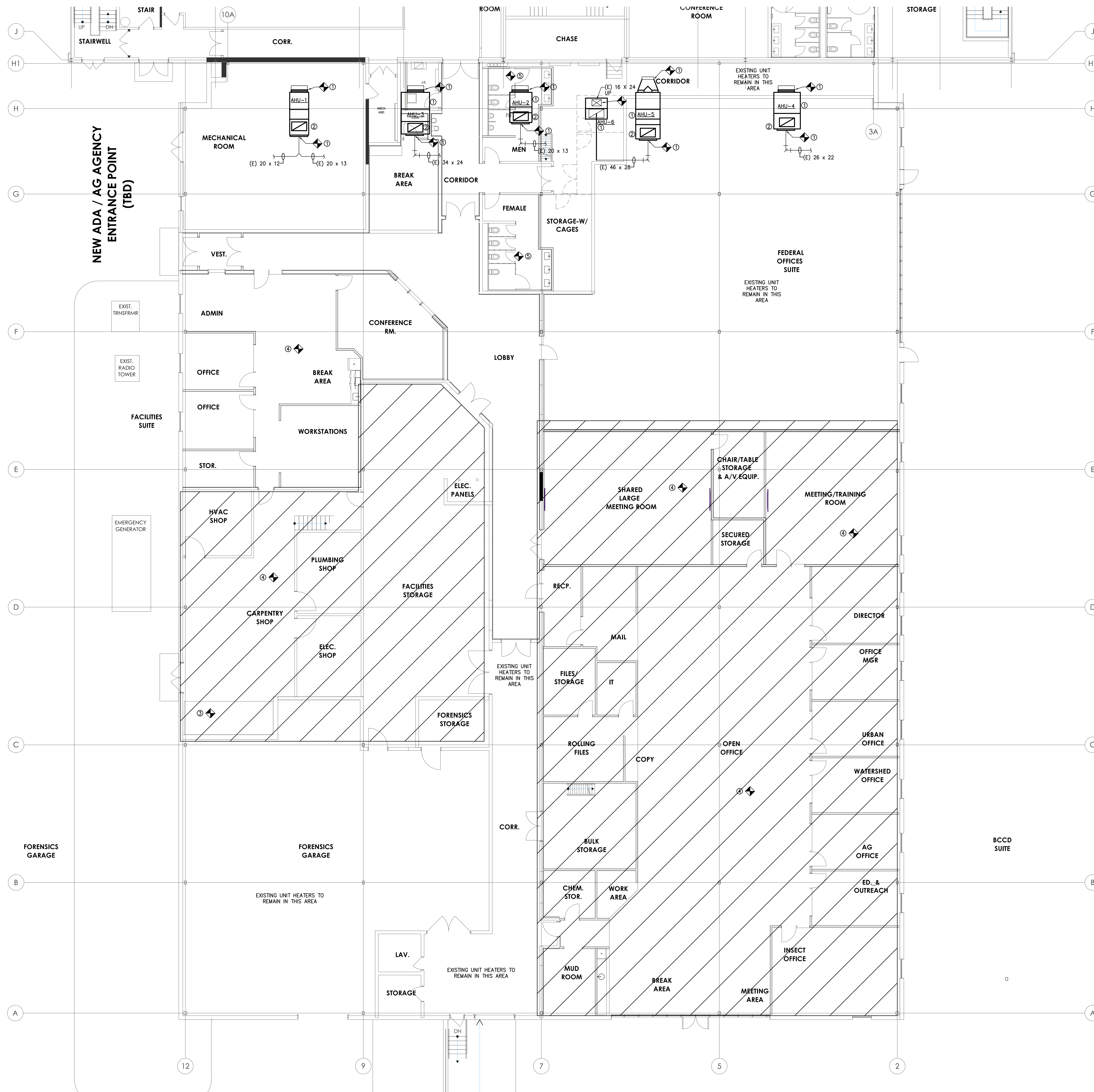
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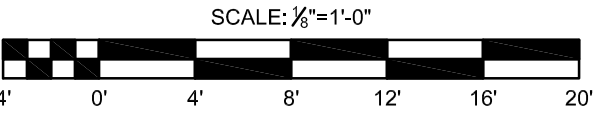
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DEMO NOTES:

1. DEMO AHU'S IN THEIR ENTIRETY. DEMO DUCT BACK TO FLEX COLLARS AND PLENUM BOXES FOR MULTI-ZONE UNITS, PLENUM BOXES TO REMAIN. DISCONNECT HOT AND CHILLED WATER PIPE - RETAIN SHUT OFF VALVES, PRESSURE GAUGE, AND THERMOMETERS. REMOVE ALL EQUIPMENT PADS AND HANGERS.
2. DEMO OUTSIDE AIR DUCT UP THROUGH ROOF. REMOVE INTAKE HOOD ON ROOF, DEMO CURB AND INCORPORATE OUTSIDE AIR DUCT OPENING INTO NEW DUCT WORK OPENING - FIELD COORDINATE.
3. CONTRACTOR TO REMOVE DUST COLLECTOR IN ITS ENTIRETY FOR RE-USE. FIELD COORDINATE ALL PARTS AND DUCT WITH OWNER. SUPPLY PARTS NEEDED TO REINSTALL AT OWNERS NEW LOCATION.
4. DEMO ALL UNIT HEATERS AND BASE BOARD HEAT IN NEW FIT OUT AREA. REMOVE ALL HANGERS. CAP HOT WATER PIPE AT CEILING AND INSIDE WALL. REMOVE ALL THERMOSTAT CONTROLS. SAVE (2) TWO CEILING HUNG UNIT HEATERS FOR REINSTALLATION TO NEW STORAGE ROOM G-015.
5. DEMO AND CAP ALL EXISTING EXHAUST DUCT IN BATHROOMS. REMOVE ANY DUCT THAT INTERFERES WITH NEW.

HVAC DEMO PLAN



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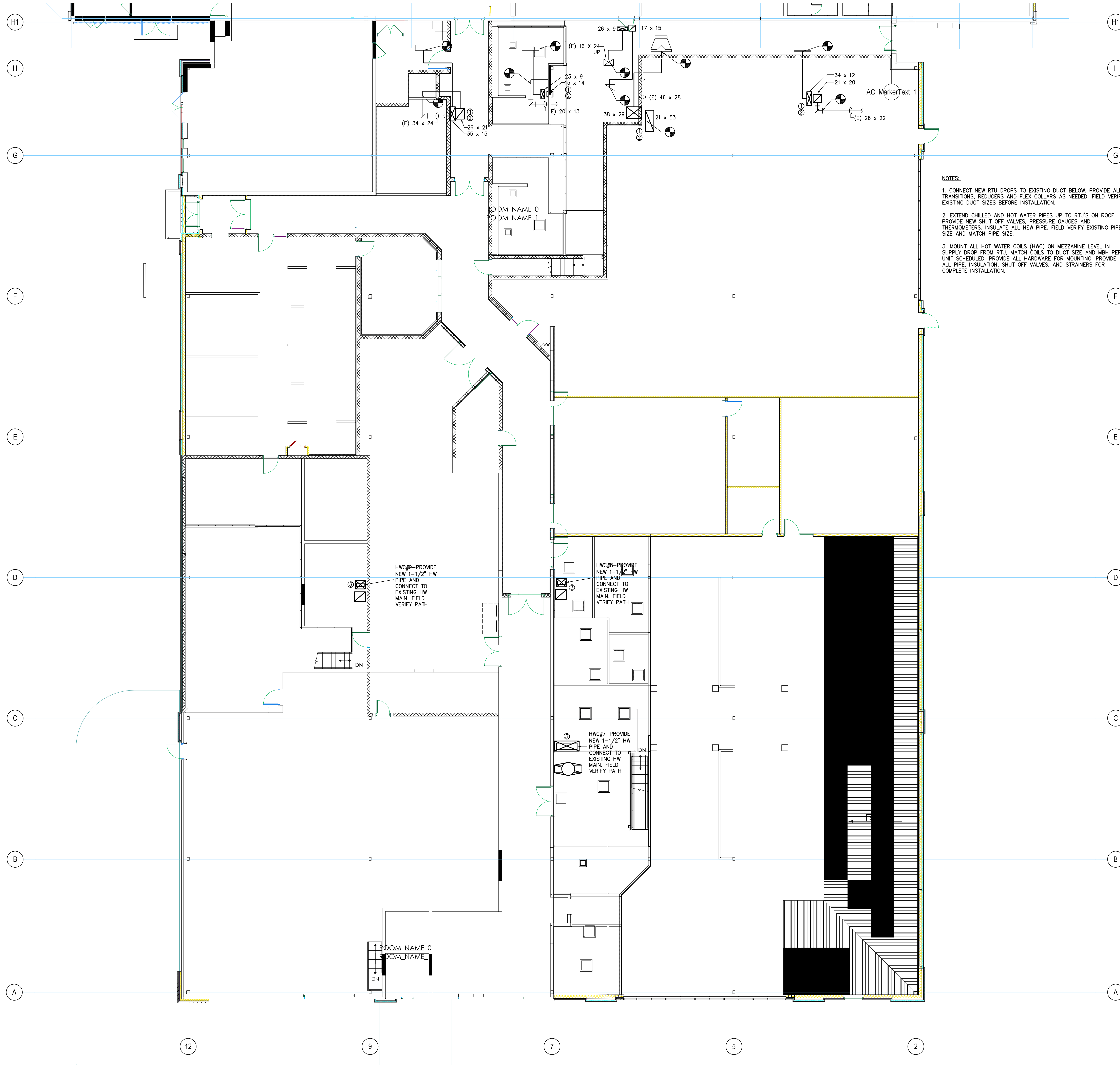
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HVAC DEMO PLAN

H100D



NOTES:

1. CONNECT NEW RTU DROPS TO EXISTING DUCT BELOW. PROVIDE ALL TRANSITIONS, REDUCERS AND FLEX COLLARS AS NEEDED. FIELD VERIFY EXISTING DUCT SIZES BEFORE INSTALLATION.
2. EXTEND CHILLED AND HOT WATER PIPES UP TO RTU'S ON ROOF. PROVIDE NEW SHUT OFF VALVES, PRESSURE GAUGES AND THERMOMETERS. INSULATE ALL NEW PIPE. FIELD VERIFY EXISTING PIPE SIZE AND MATCH PIPE SIZE.
3. MOUNT ALL HOT WATER COILS (HWC) ON MEZZANINE LEVEL IN SUPPLY DROP FROM RTU. MATCH COILS TO DUCT SIZE AND MBH PER UNIT SCHEDULED. PROVIDE ALL HARDWARE FOR MOUNTING, PROVIDE ALL PIPE, INSULATION, SHUT OFF VALVES, AND STRAINERS FOR COMPLETE INSTALLATION.

MEZZANINE LEVEL HVAC PLAN
SCALE: 1/8"=1'-0"

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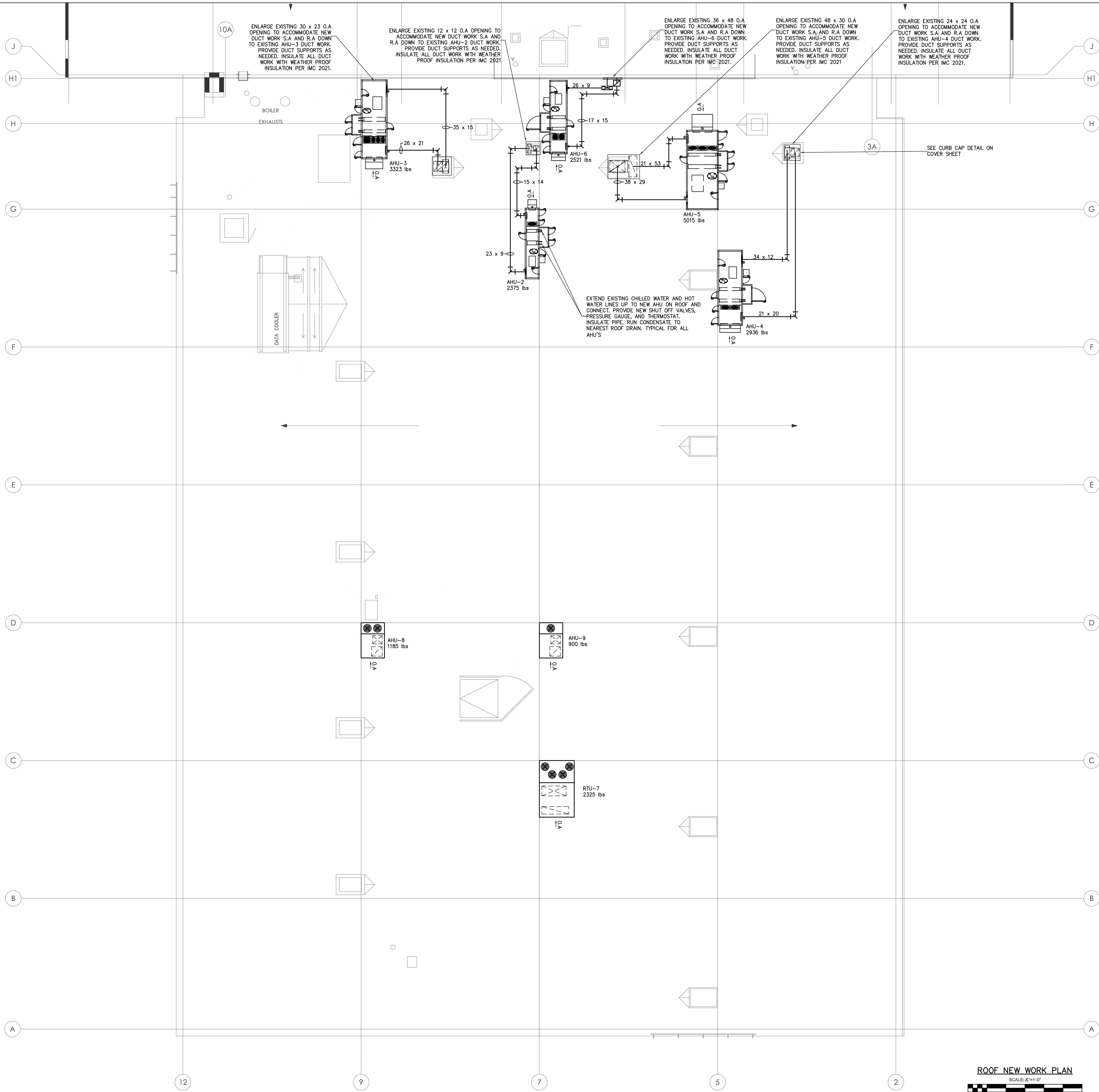
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SHEET TITLE:
MEZZANINE LEVEL HVAC PLAN

H101



ROOF NEW WORK PLAN
SCALE: 1/8"=1'-0"



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PROJECT # : 22-0995-0133

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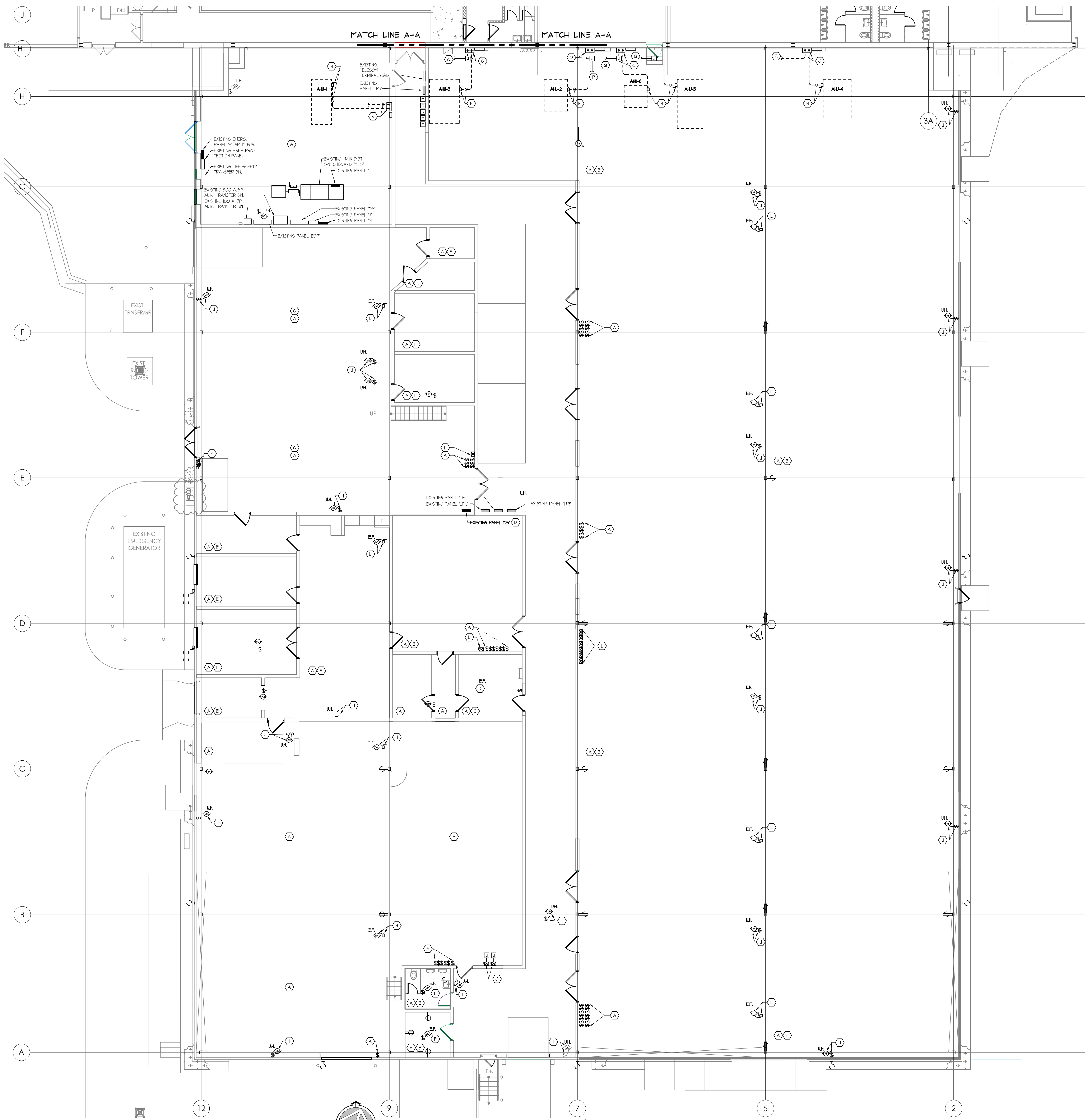
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SHEET TITLE:
**HVAC ROOF
NEW WORK
PLAN**

H200

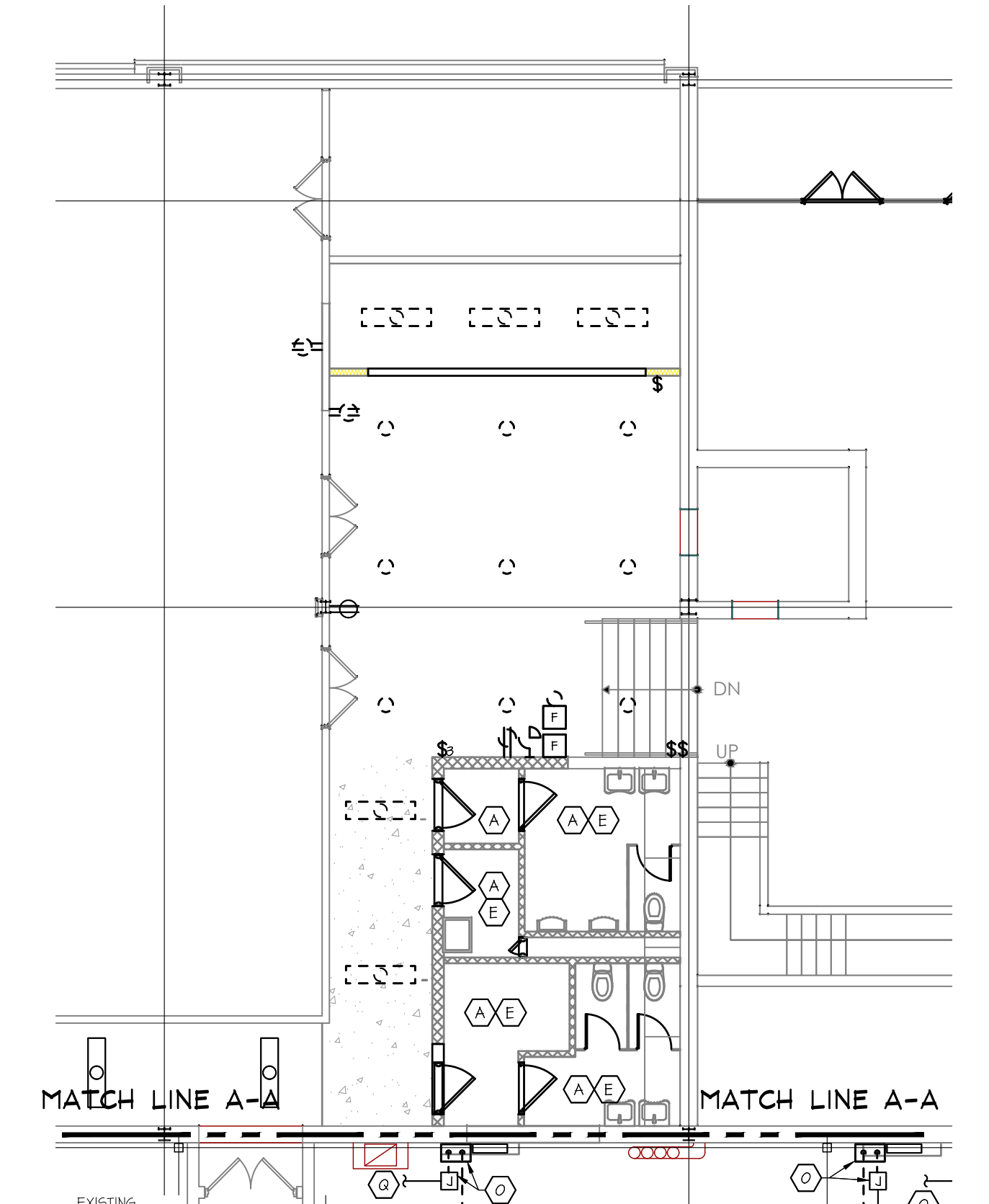


GENERAL DEMOLITION NOTES

- EXISTING AIR HANDLING UNITS AH-1 THROUGH AH-6 HAVE DUCT SMOKE DETECTORS IN THE RETURN DUCTWORK. COORDINATE WITH THE HVAC CONTRACTOR. THE EXTENT OF REMOVAL OF RETURN DUCTWORK, IF REQUIRED, CAREFULLY DISCONNECT AND REMOVE THE DETECTOR. AFTER DUCTWORK IS COMPLETE AND THE HVAC CONTRACTOR HAS INSTALLED THE SAMPLING TUBE, INSTALL A NEW ADDRESSABLE SMOKE DETECTOR AND CONNECT TO THE FIRE ALARM SYSTEM.
- WHERE LUMINAIRES ARE REMOVED, THEY SHALL BE DISPOSED OF LEGALLY OFF SITE. RECYCLE ALL FLUORESCENT LAMPS IN ACCORDANCE WITH LOCAL AND STATE REQUIREMENTS.

KEYED DEMOLITION NOTES

- (A) DISCONNECT AND REMOVE ALL EXISTING LUMINAIRES IN THIS SPACE, INCLUDING ALL CONDUITS, BOXES, SUPPORTS, WIRING, AND ASSOCIATED SWITCHES.
- (B) REPLACE EXISTING RECEPTACLE AND COVER PLATE WITH NEW AS SPECIFIED, AND CONNECT TO EXISTING BRANCH CIRCUIT.
- (C) REMOVE ALL EXISTING RECEPTACLES IN THE EXISTING CARPENTERS SHOP, INCLUDING ALL ABOVE-GRADE CONDUIT, BOXES, SUPPORTS, WIRING COMPLETE TO EXISTING PANEL 'C'. CUT CONDUIT STUB-UPS OFF BELOW THE FLOOR SURFACE AND GROUT SHUT. COORDINATE FLOOR PATCHING WITH THE GENERAL CONTRACTOR.
- (D) REMOVE EXISTING PANEL 'C' COMPLETE, INCLUDING ALL BRANCH CIRCUITS, ABOVE GRADE CONDUITS, FEEDER, COMPLETE TO THE MAIN DISTRIBUTION SWITCHBOARD. CUT CONDUIT STUB-UPS OFF BELOW THE FLOOR SURFACE AND GROUT SHUT. COORDINATE FLOOR PATCHING WITH THE GENERAL CONTRACTOR. RETURN ALL REMOVED BRANCH CIRCUIT BREAKERS TO THE OWNER'S STOCK.
- (E) REMOVE ALL EXISTING RECEPTACLES IN THIS SPACE. REMOVE ALL ABOVE-GRADE CONDUIT, BOXES, SUPPORTS, WIRING COMPLETE TO SOURCE EXCEPT THAT IF THE BRANCH CIRCUIT SERVES RECEPTACLES THAT ARE TO REMAIN, IT SHALL BE MAINTAINED CONTIGUOUS. IF REQUIRED, CUT CONDUIT STUB-UPS OFF BELOW THE FLOOR SURFACE AND GROUT SHUT. COORDINATE FLOOR PATCHING WITH THE GENERAL CONTRACTOR.
- (F) EXISTING EXHAUST FAN TO REMAIN. RE-ROUTE BRANCH CIRCUIT THROUGH NEW OCCUPANCY CONTROLS. REFER TO LIGHTING PLANS AND DIAGRAMS FOR ADDITIONAL INFORMATION.
- (G) RELOCATE EXISTING EXHAUST FAN COMBINATION STARTER TO ACCOMMODATE WALL REMOVAL. REMOVE BRANCH CIRCUIT TO NEW JUNCTION BOX IN CEILING SPACE AND EXTEND TO NEW LOCATION. REFER TO DRAWING E201 FOR NEW LOCATION.
- (H) EXISTING EXHAUST FAN TO REMAIN.
- (I) EXISTING UNIT HEATER TO REMAIN.
- (J) DISCONNECT POWER FROM EXISTING UNIT HEATER. REMOVE DISCONNECT SWITCH. IF REQUIRED, PROVIDE NEW JUNCTION BOX IN CEILING SPACE TO MAINTAIN BRANCH CIRCUIT TO OTHER UNIT HEATERS WHICH REMAIN. OTHERWISE REMOVE TO SOURCE.
- (K) DISCONNECT POWER FROM EXISTING EXHAUST FAN. INCLUDE BRANCH CIRCUIT AND CONTROL WIRING COMPLETE TO SOURCE.
- (L) DISCONNECT POWER FROM EXISTING EXHAUST FAN. REMOVE DISCONNECT SWITCH AT FAN. REMOVE COMBINATION STARTER AND BRANCH CIRCUIT WIRING AND CONDUIT COMPLETE TO SOURCE.
- (M) DISCONNECT POWER FROM EXISTING DUST COLLECTOR. RELOCATE EXISTING COMBINATION STARTER AND DISCONNECT SWITCH TO NEW DUST COLLECTOR LOCATION. REMOVE BRANCH CIRCUIT WIRING AND CONDUIT COMPLETE TO SOURCE. REFER TO DRAWING E201 FOR NEW LOCATION.
- (N) DISCONNECT POWER FROM AHU, REMOVE DISCONNECT SWITCH. REMOVE FEEDER FROM DISCONNECT SWITCH TO V.F.D. COMPLETE.
- (O) DISCONNECT POWER FROM EXISTING V.F.D. REMOVE V.F.D. AND BRANCH CIRCUIT CONDUIT AND WIRING TO NEW JUNCTION BOX IN CEILING SPACE. RETURN V.F.D. TO THE OWNER.
- (P) EXISTING BRANCH CIRCUIT HOMERUN TO PANEL 'H' TO REMAIN.
- (Q) EXISTING BRANCH CIRCUIT HOMERUN TO PANEL 'B' TO REMAIN.
- (R) DISCONNECT POWER FROM EXISTING V.F.D. REMOVE V.F.D. AND BRANCH CIRCUIT CONDUIT AND WIRING COMPLETE TO SOURCE. RETURN V.F.D. TO THE OWNER.



FIRST FLOOR DEMOLITION PLAN

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

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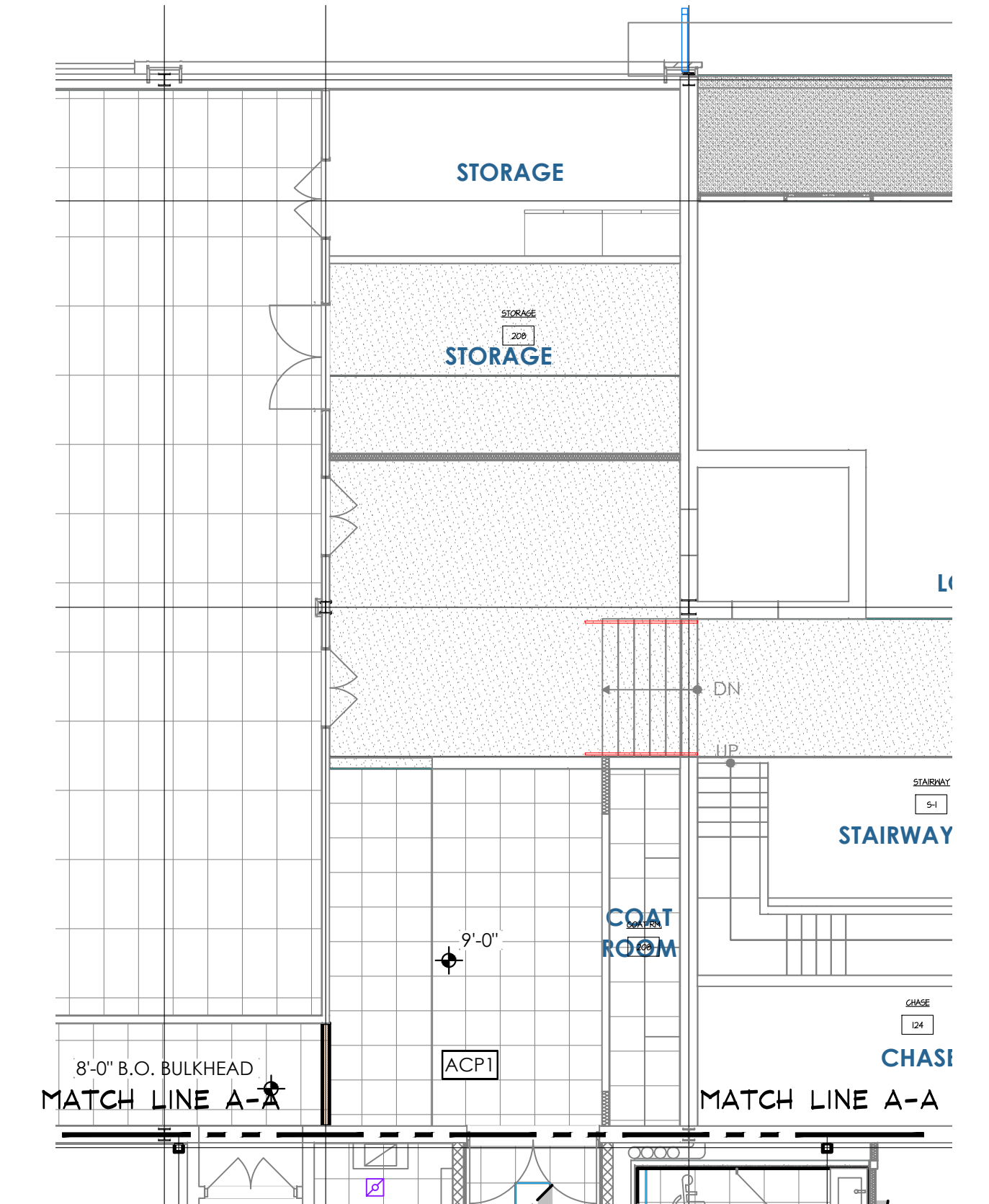
SHEET TITLE:
ELECTRICAL DEMOLITION PLAN

ED101

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FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"



FIRST FLOOR LIGHTING PLAN
SCALE: 1/8" = 1'-0"

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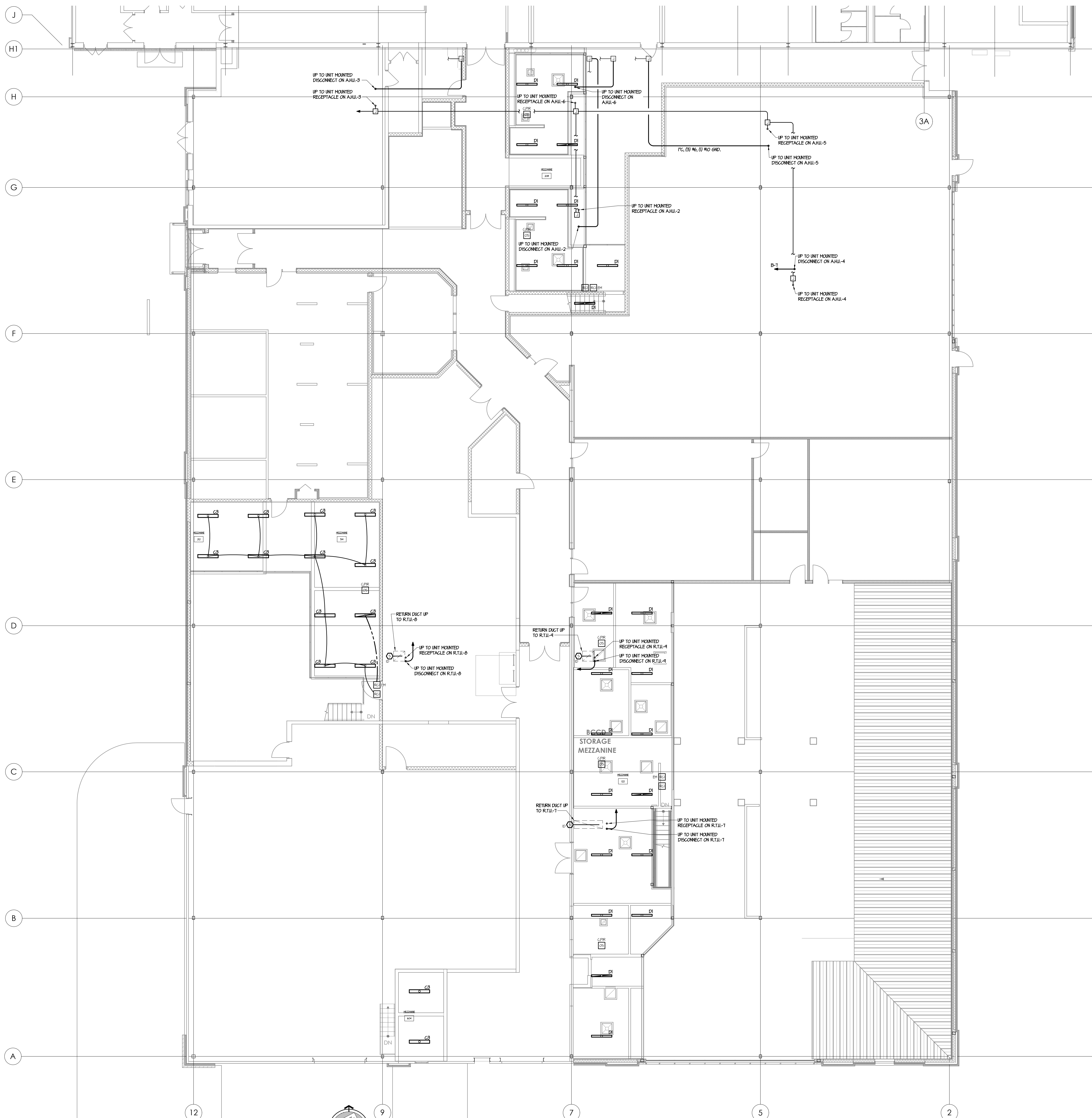
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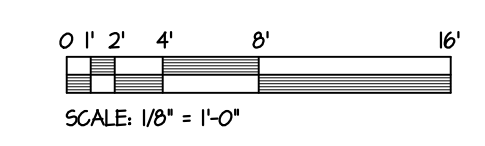
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SHEET TITLE:
MEZZANINE LIGHTING PLAN

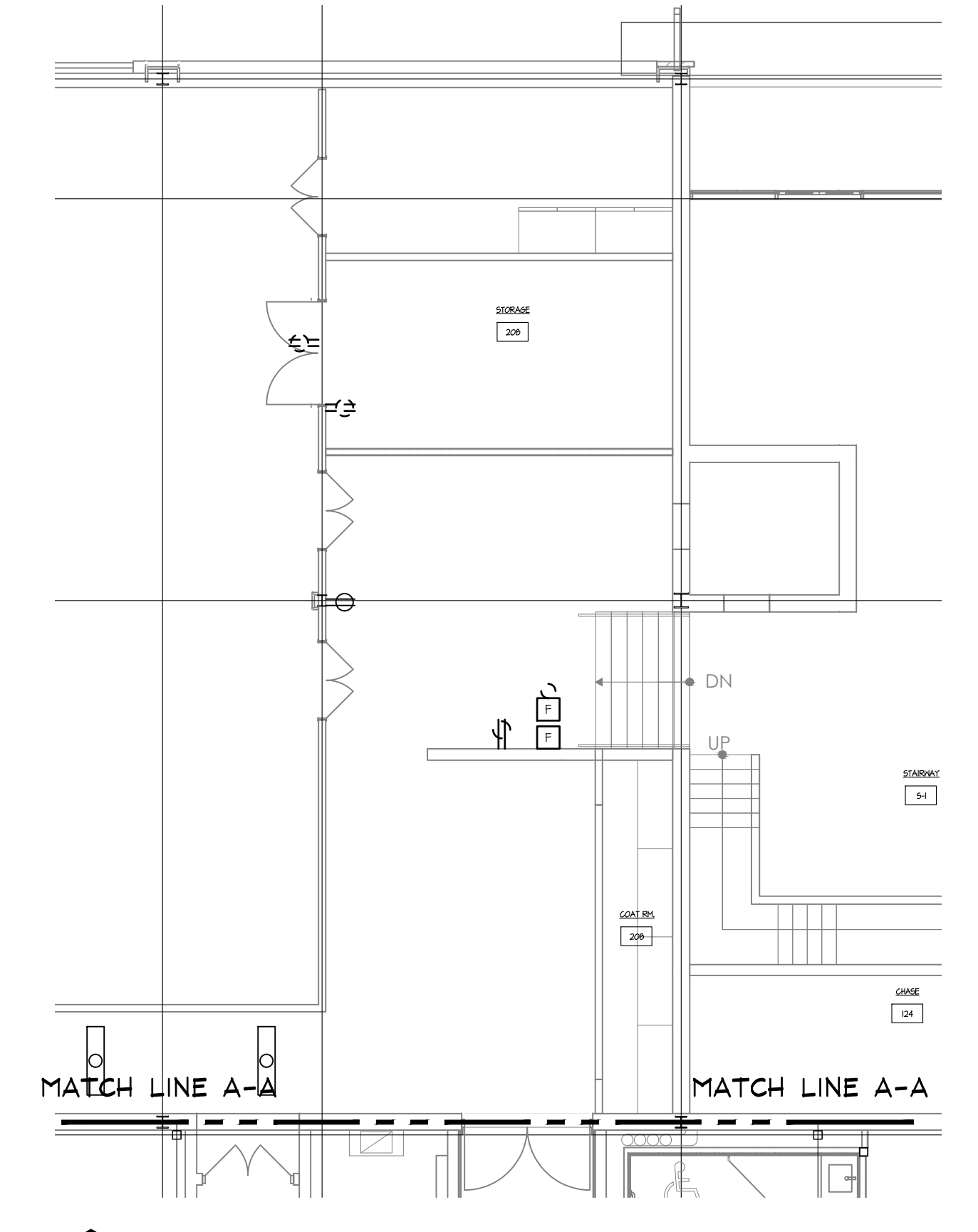
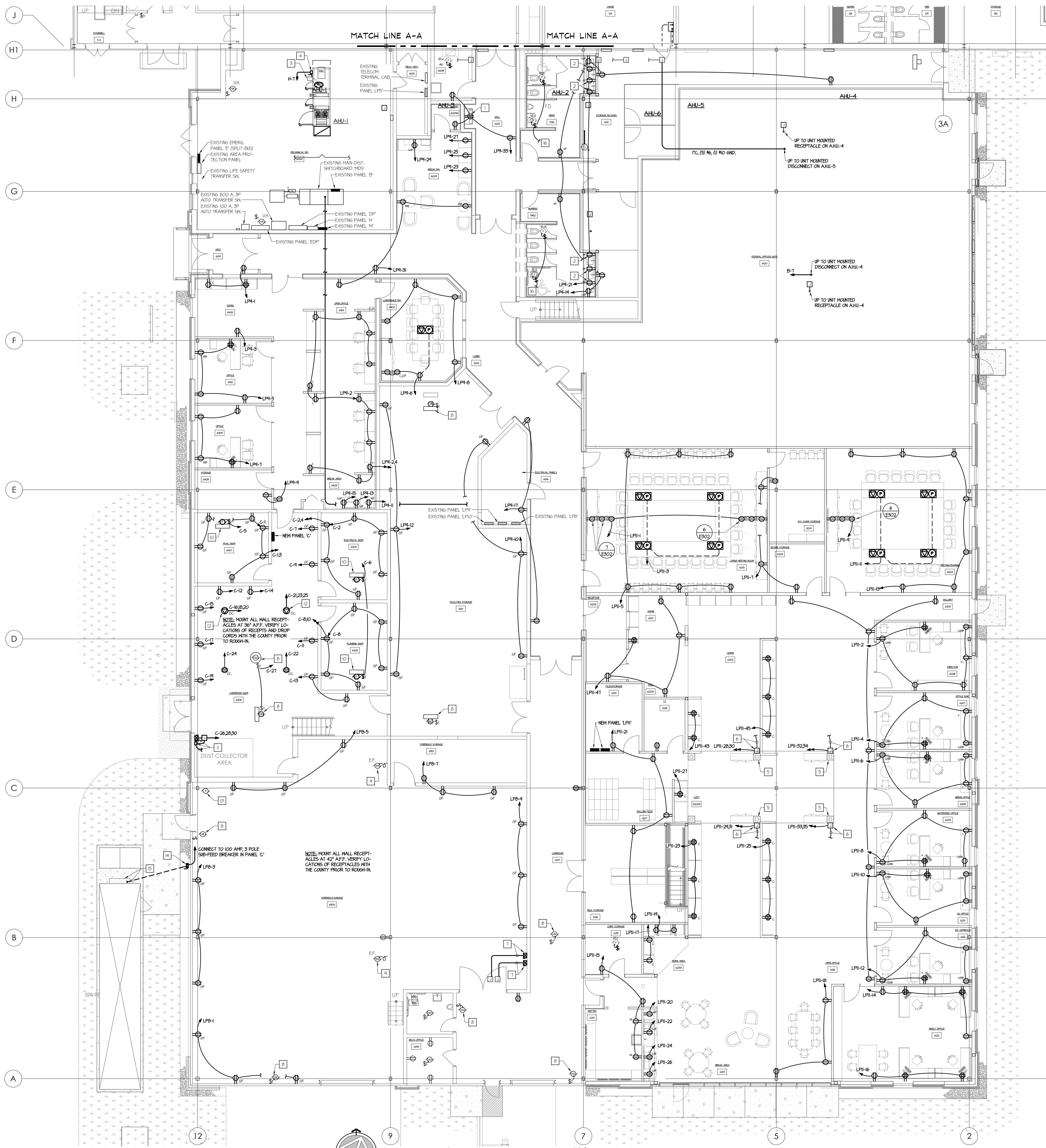
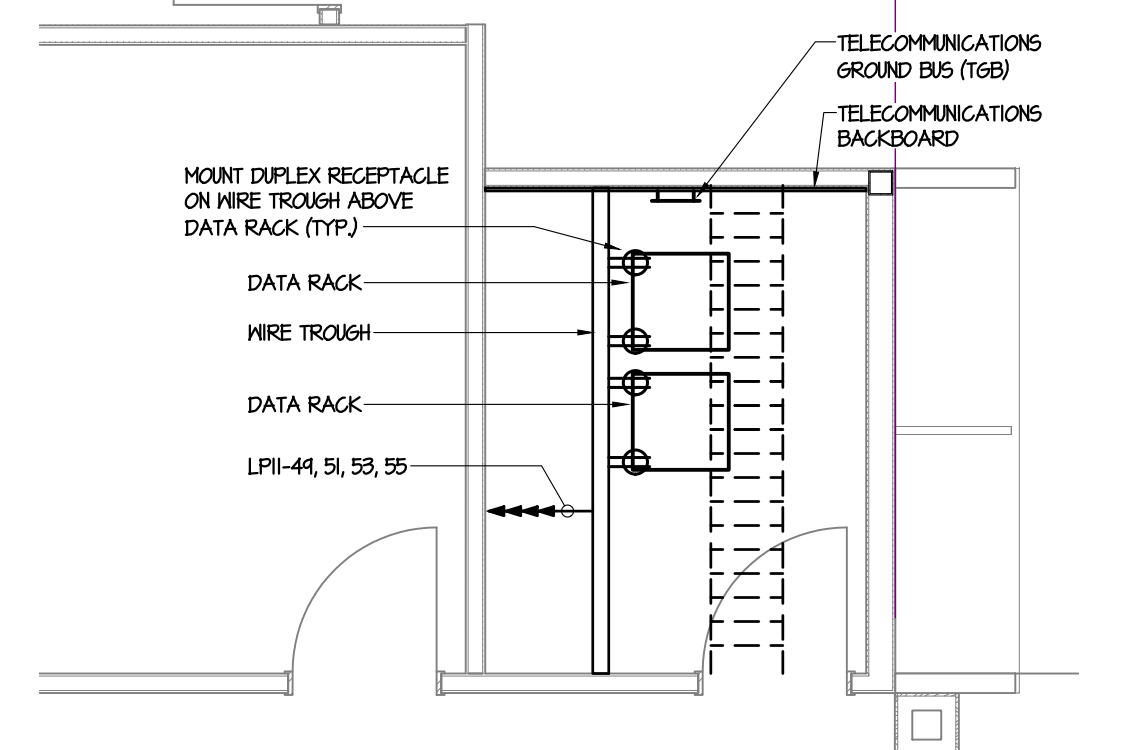
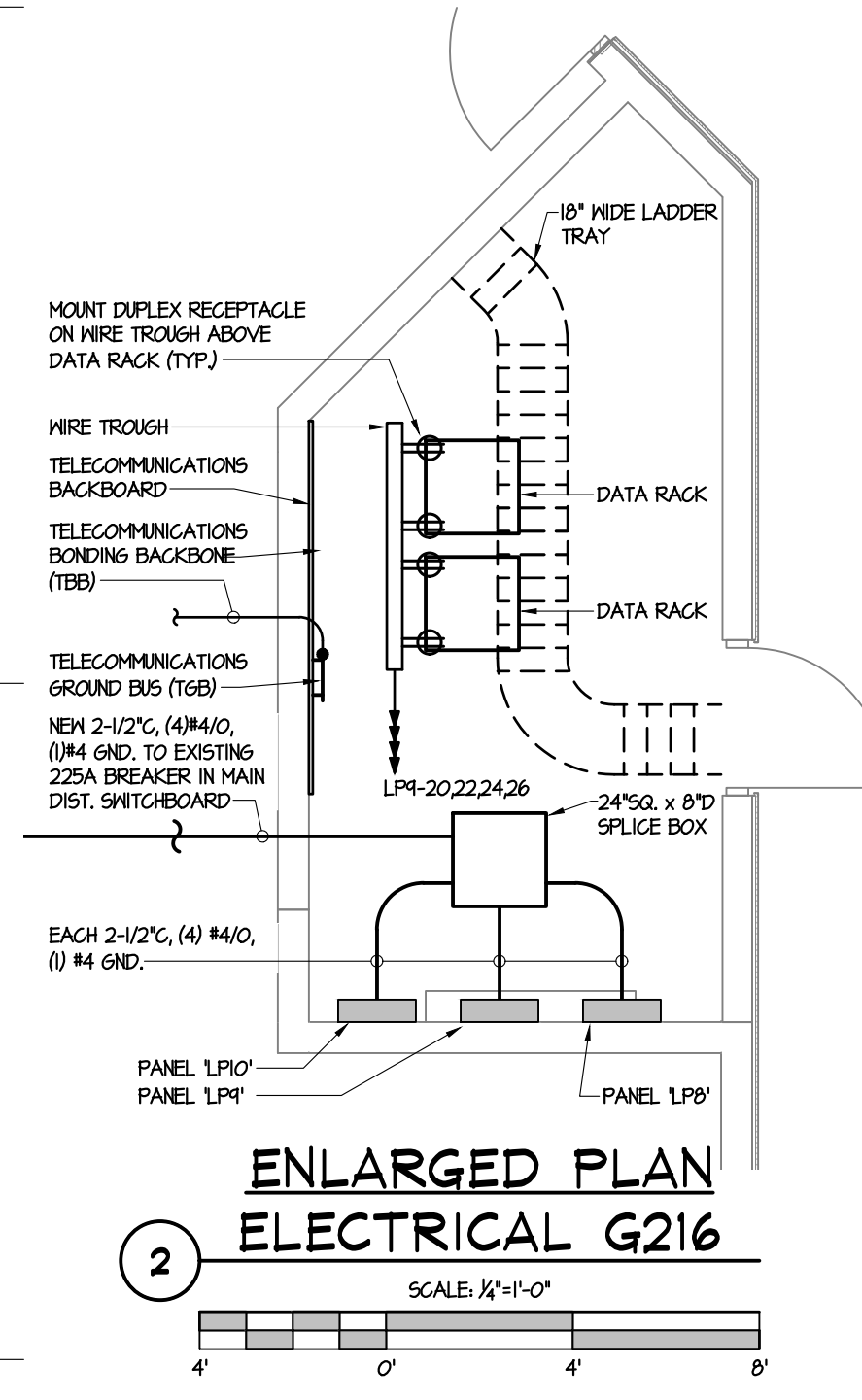
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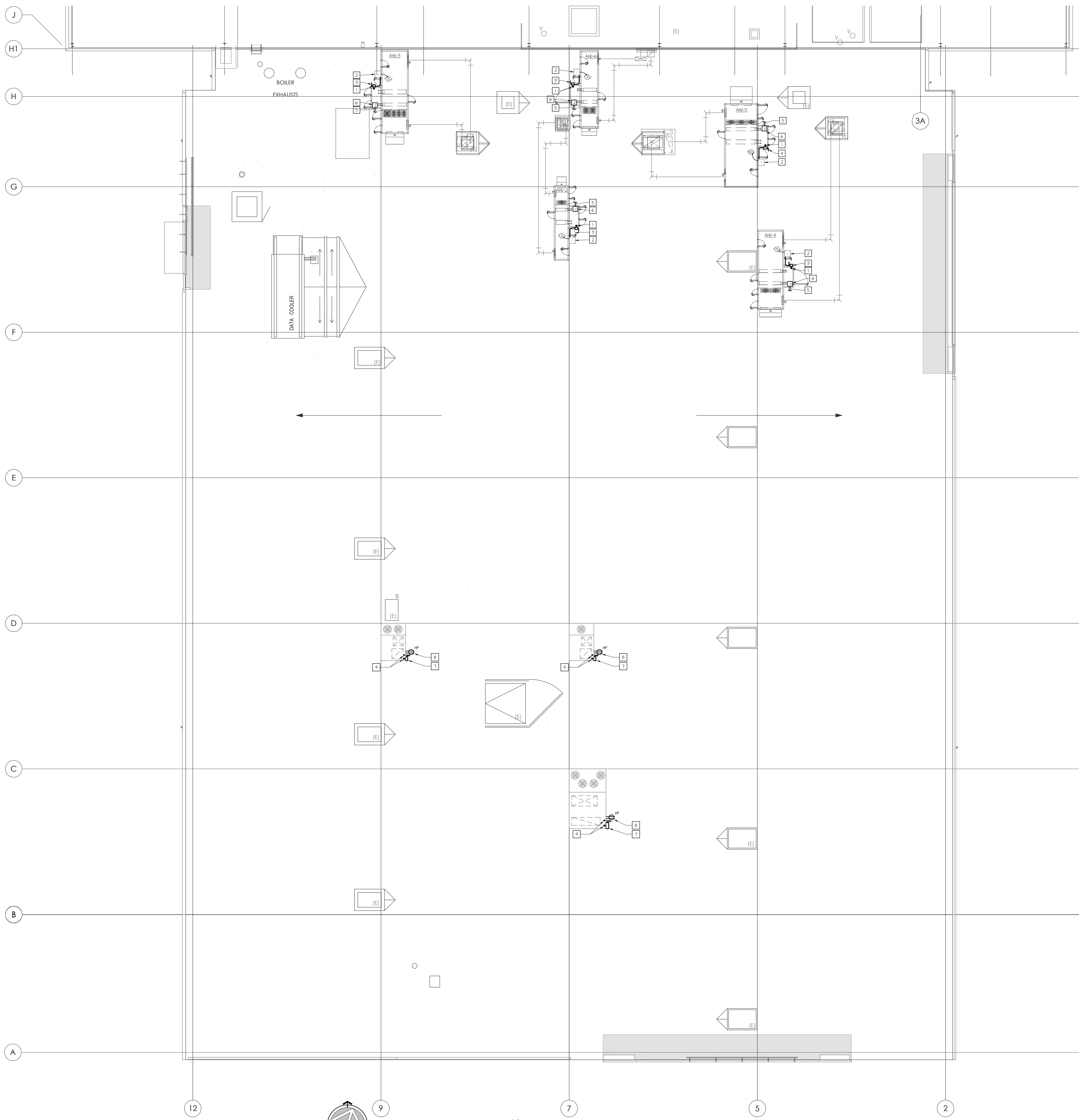


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KEYED DRAWING NOTES

- 1 CONCEAL RECEPTACLE BEHIND WATER COOLER ENCLOSURE.
- 2 RECEPTACLE DEDICATED FOR AUTOMATED FACSET AT VANITY. COORDINATE MOUNTING HEIGHT WITH THE PLUMBING CONTRACTOR.
- 3 NEW VARIABLE FREQUENCY DRIVE FACTORY MOUNTED TO AIR HANDLING UNIT.
- 4 NEW 30 AMP 3 POLE, NEMA 1, NON-FUSED DISCONNECT SWITCH BY E.G. MOUNT TO UNIT EXTERIOR. COORDINATE INSTALLATION WITH THE HVAC CONTRACTOR.
- 5 CONCEAL BRANCH CIRCUITS TO WORK STATIONS AND WORK COUNTERS WITHIN COLUMNS.
- 6 PROVIDE FLUSH HALL BOX FOR FURNITURE POWER IN-FEED. PROVIDE LIQUID TIGHT FLEXIBLE METAL CONDUIT FROM TO FURNITURE SYSTEM CONNECTION POINT. VERIFY REQUIREMENTS WITH SPECIFIC FURNITURE SUPPLIER PRIOR TO ROUGH-IN.
- 7 EXTEND 3/4" (Ø) 1/2" (Ø) 2" (Ø) 2" FROM NEH JUNCTION BOX TO RELOCATED EXHAUST FAN COMBINATION STARTER AND CONNECT.
- 8 EXISTING UNIT HEATER.
- 9 EXISTING EXHAUST FAN.
- 10 RELOCATED UNIT HEATER.
- 11 INSTALL RELOCATED COMBINATION STARTER AND 3 POLE DISCONNECT SWITCH AND CONNECT TO DUST COLLECTOR AND SHAKER AS PER PREVIOUS INSTALLATION. RESTORE ALL INTERLOCKS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- 12 CORD REEL WITH 3Ø, (Ø) 24 50% CORD, HEBBELL CAT. #EHLR2924. TERMINATE WITH NEMA L5-20 TWSF LOCK FEMALE CONNECTOR.
- 13 EXISTING AIR COMPRESSOR.
- 14 100 AMP, 3 POLE, NON-FUSED, NEMA 4X DISCONNECT SWITCH.
- 15 TERMINATE FEEDER IN ELECTRICAL EQUIPMENT ENCLOSURE MOUNTED ON EXTERIOR OF SHOOT HOUSE CONTAINER.
- 16 CONNECT EXHAUST FAN TO LIGHTING CIRCUIT. REFER TO DRAWING E01.





KEYED DRAWING NOTES

- 1 ROUTE NEW ROOF TOP AIR HANDLER BRANCH CIRCUIT DOWN TO CEILING SPACE BELOW VIA ROOF TOP UNIT PIPE CHASE AND ROOF CURB. COORDINATE INSTALLATION WITH THE H.V.A.C. AND GENERAL CONTRACTOR.
- 2 VARIABLE FREQUENCY DRIVE FACTORY MOUNTED TO EXTERIOR OF ROOF TOP AIR HANDLING UNIT.
- 3 NEW 50 AMP, 3 POLE, NEMA 4X, NON-FUSED DISCONNECT SWITCH, BY E.G. MOUNT TO UNIT EXTERIOR. COORDINATE INSTALLATION WITH THE H.V.A.C. CONTRACTOR.
- 4 NEW 60 AMP, 3 POLE, NEMA 4X, NON-FUSED DISCONNECT SWITCH, BY E.G. MOUNT TO UNIT EXTERIOR. COORDINATE INSTALLATION WITH THE H.V.A.C. CONTRACTOR.
- 5 3W4C, (2)W2, (1)W2 AND CONNECT TO CONVENIENCE RECEPTACLE AND UNIT MOUNTED LIGHTING. COORDINATE THE INSTALLATION WITH THE H.V.A.C. CONTRACTOR.
- 6 ROUTE NEW BRANCH CIRCUIT SERVING CONVENIENCE RECEPTACLE AND UNIT MOUNTED LIGHTING DOWN TO CEILING SPACE BELOW VIA ROOF TOP UNIT PIPE CHASE AND ROOF CURB. COORDINATE INSTALLATION WITH THE H.V.A.C. AND GENERAL CONTRACTOR. REFER TO DRAWING E201 FOR CONTINUATION.
- 7 DISCONNECT SWITCH FURNISHED AS A FACTORY INSTALLED OPTION WITH THE R.T.U. ELECTRICAL SHALL CONNECT POWER TO LINE SIDE.
- 8 WEATHER-PROOF, GFCI RECEPTACLE FURNISHED AS A FACTORY INSTALLED OPTION WITH THE R.T.U. ELECTRICAL CONTRACTOR SHALL CONNECT TO BRANCH CIRCUIT INDICATED.
- 9 ROUTE BRANCH CIRCUIT / FEEDER THROUGH ROOF CURB. COORDINATE INSTALLATION WITH THE H.V.A.C. CONTRACTOR.



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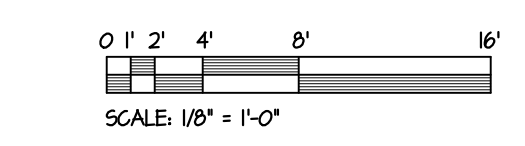
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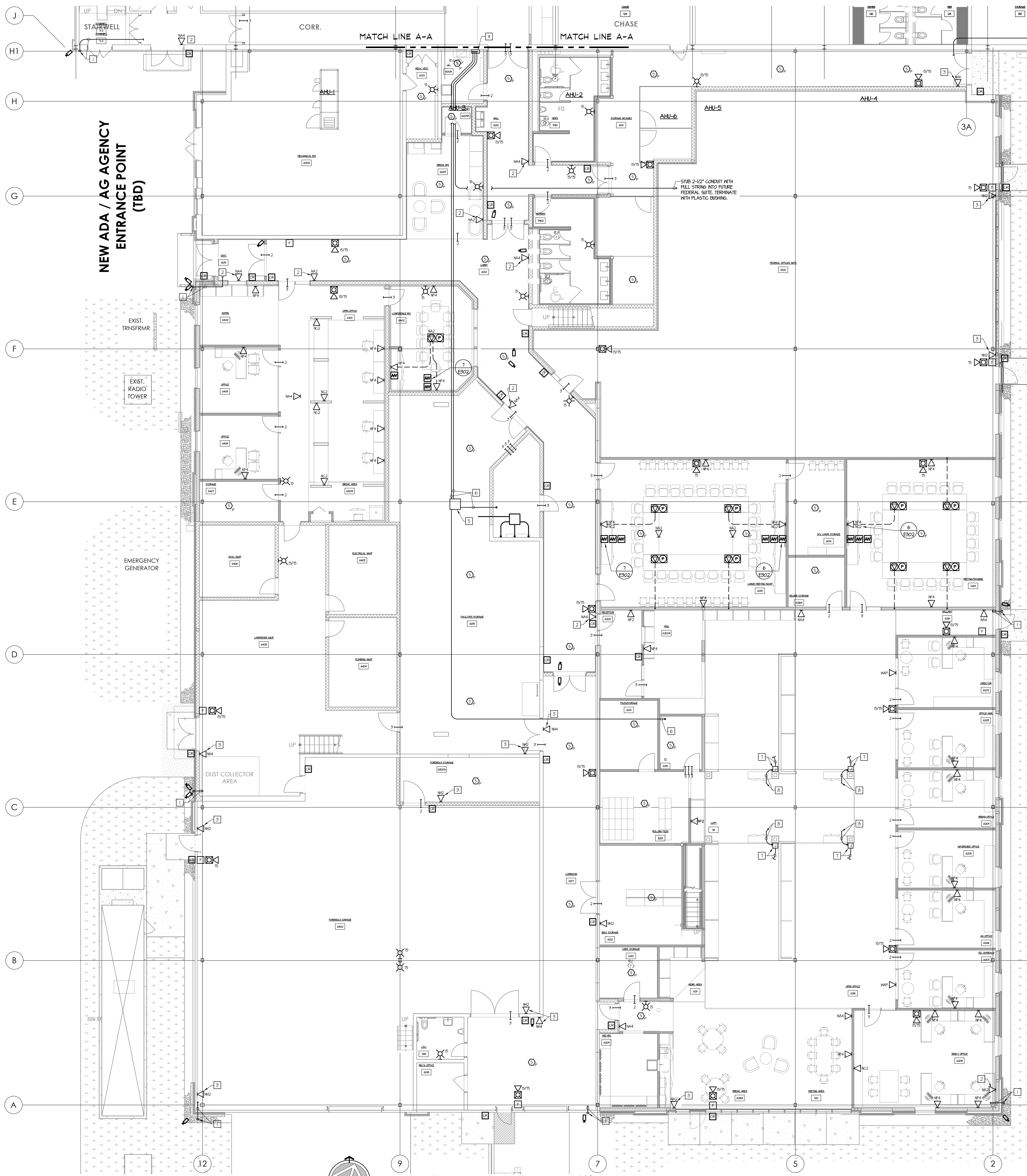
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ROOF POWER PLAN

E202

1 ROOF POWER PLAN
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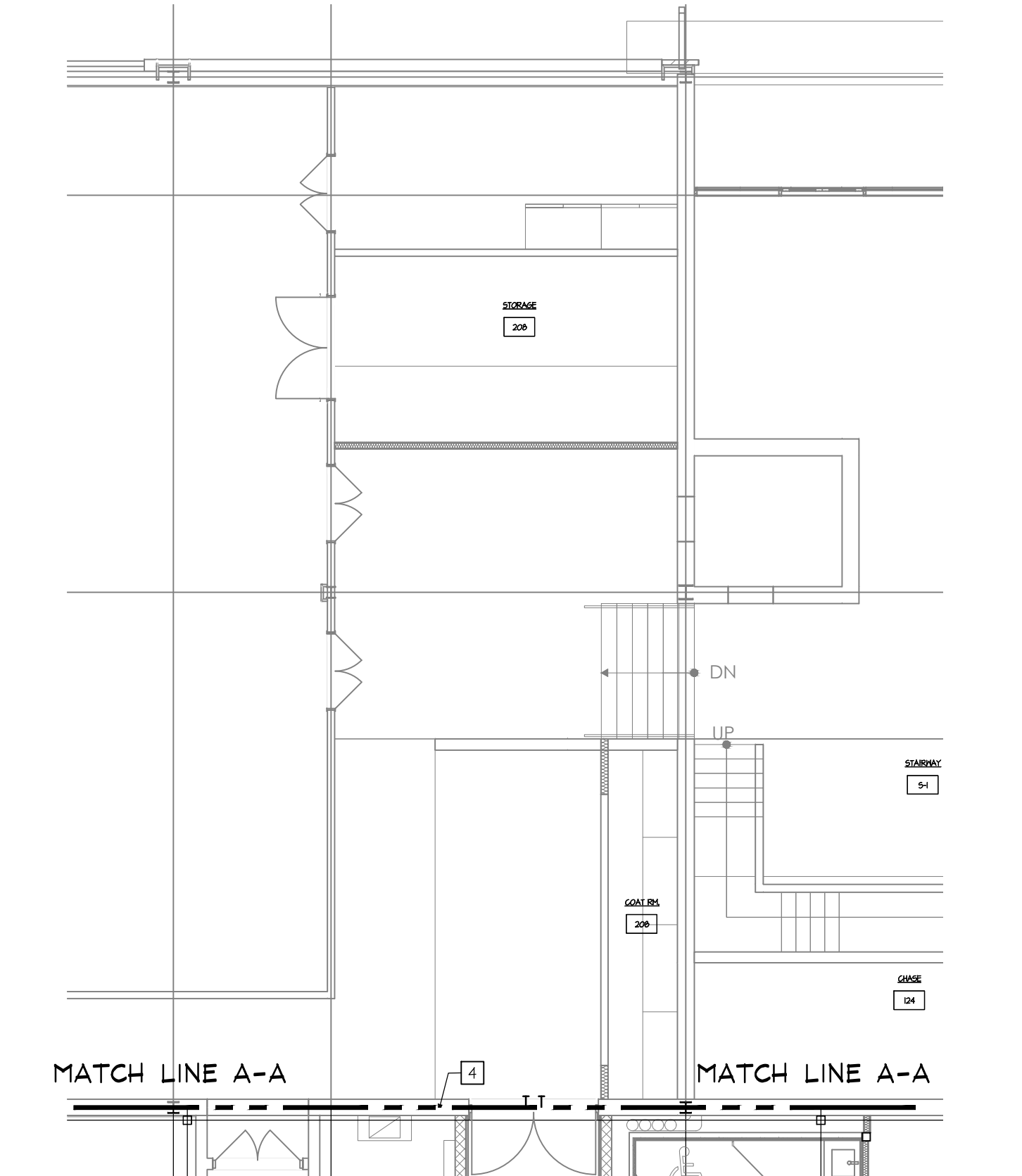
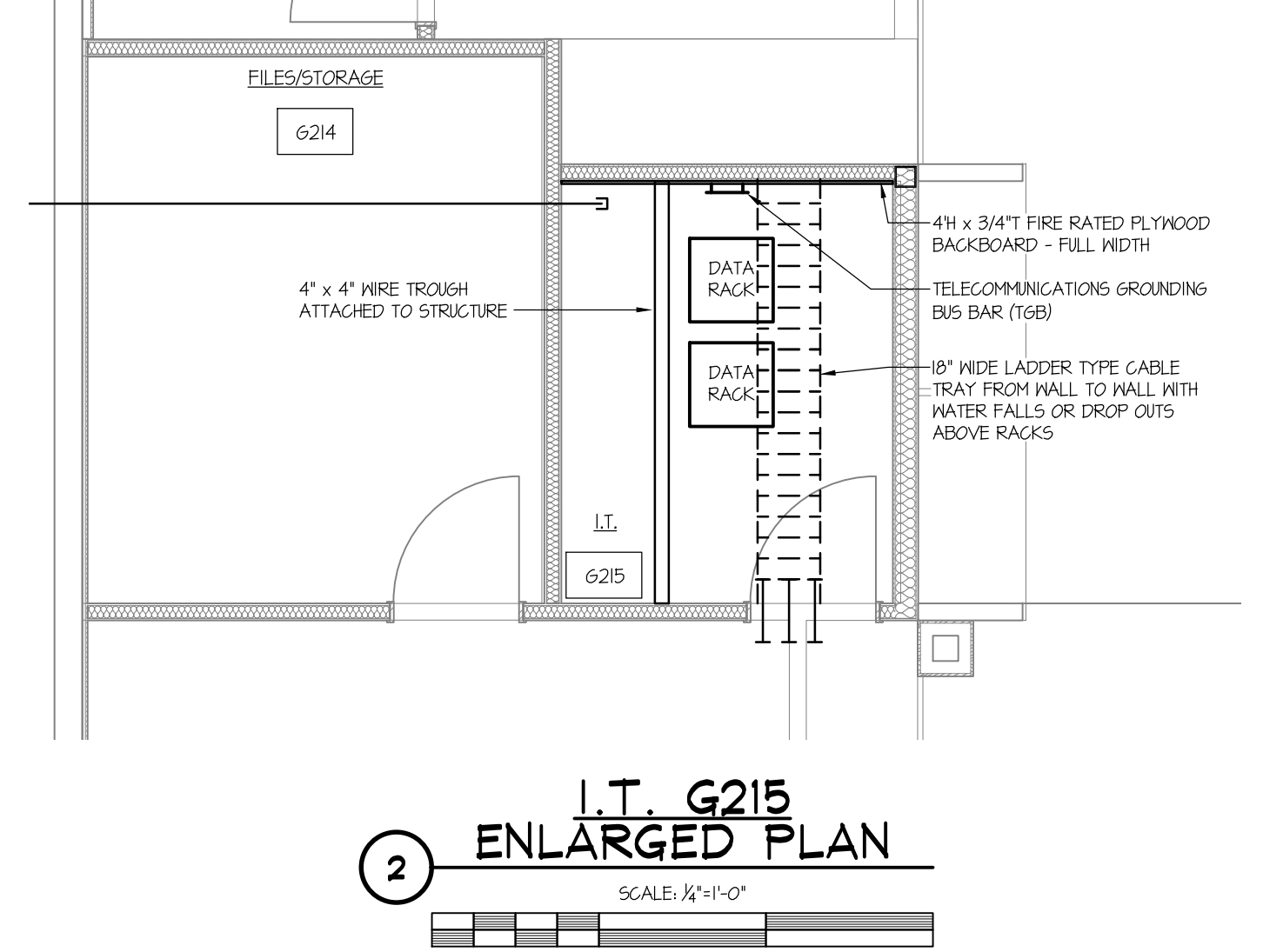
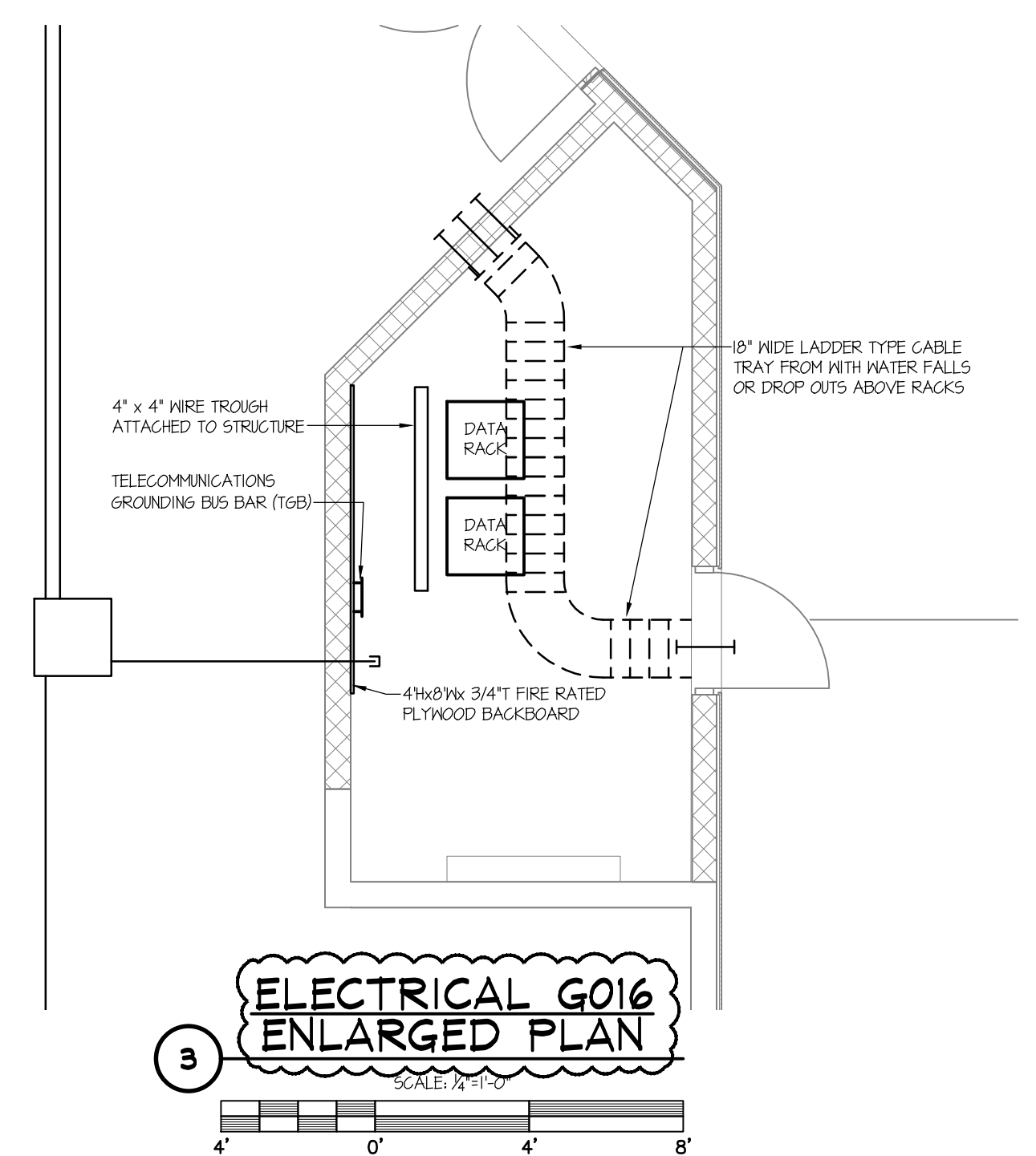
1 FIRST FLOOR SYSTEMS PLAN
SCALE: 1/8" = 1'-0"

KEYED DRAWING NOTES

- FURNISH AND INSTALL 3/4" CONDUIT SLEEVE THROUGH WALL BETWEEN CEILING CAVITY AND EXTERIOR CAMERA LOCATION. INSTALL OWNER FURNISHED BACK BOX AT CAMERA LOCATION AND TERMINATE CONDUIT SLEEVE. TERMINATE CONDUIT IN CEILING SPACE WITH PLASTIC BUSHING.
- LOCATE DATA OUTLET ABOVE CEILING. COORDINATE FINAL LOCATION TO BE ACCESSIBLE FROM A REMOVED CEILING PANEL.
- LOCATE DATA OUTLET ON WALL, APPROXIMATELY 4" ABOVE FINISHED FLOOR.
- 18" 50. x 6" DEEP NEMA 1 PULL BOX WITH HINGED COVER FOR DATA CABLES. WALL MOUNT APPROXIMATELY 4" ABOVE FINISHED FLOOR TO CENTER.
- 24" 50. x 6" DEEP NEMA 1 PULL BOX WITH HINGED COVER FOR DATA CABLES. MOUNT TO UNDERSIDE OF ROOF STRUCTURE.
- 2" CONDUIT WITH (3) 12 STRAND MULTI-MODE FIBER OPTIC CABLE AND (4) 4 PAIR UTP CAT 6 CABLES.
- PROVIDE FLUSH WALL BOX FOR FURNITURE DATA IN-FEED. PROVIDE 2" LIQUID TIGHT FLEXIBLE METAL CONDUIT PIPE TO FURNITURE SYSTEM BACKWAY CONNECTION POINT. VERIFY REQUIREMENTS WITH SPECIFIC FURNITURE SUPPLIER PRIOR TO ROUGH-IN.
- EXTEND 2" CONDUIT FROM BOX TO ABOVE CEILING CONCEAL CONDUIT WITHIN COLUMN. PROVIDE (4) CAT 6 DATA CABLES PER REPRESENTATION TO DATA RACK IN I.T. 625. VERIFY EXACT QUANTITY OF WORKSTATIONS WITH ARCHITECT AND OWNER.

DATA NETWORK SYMBOL KEY

- | | |
|------|---|
| ▽ 2 | PHONE/DATA OUTLET - FLUSH MOUNTED, 4" SQUARE BOX WITH SINGLE GANG TRIM, 18" AFF WITH 1" CONDUIT TO ABOVE ACCESSIBLE CEILING FLENUM - NUMBER INDICATES QUANTITY OF PORTS - HUBBELL #5626 STAINLESS STEEL DECORATOR COVER PLATE WITH HUBBELL #5626 DECORATOR OUTLET FRAME |
| F | 18" ABOVE FINISHED FLOOR |
| C | 12" ABOVE FINISHED CEILING |
| K | 48" ABOVE FINISHED FLOOR |
| H | 80" ABOVE FINISHED FLOOR |
| A | ABOVE CEILING - PROVIDE SINGLE GANG OUTLET BOX WITH GROMMET IN KICKOUT, MOUNT BOX TO STRUCTURE ABOVE CEILING |
| B | BOX WITH BLANK COVER AND 3/4" CONDUIT TO ABOVE CEILING |
| E | EXISTING |
| (HG) | HARD CEILING LOCATION |
| 1-2 | 5/11 E2 PATH SERIES 22 - BY ELECTRICAL CONTRACTOR |
| 1-3 | 5/11 E2 PATH SERIES 33 - BY ELECTRICAL CONTRACTOR |
| 3 | 5/11 E2 PATH SERIES 33 WITH CONDUIT ATTACHMENT PLATE AND LENGTH OF 4" CONDUIT AS REQUIRED TO REACH ACCESSIBLE CEILING - BY ELECTRICAL CONTRACTOR SUPPORT CONDUIT FROM STRUCTURE AND PROVIDE PLASTIC BUSHING IN MASONRY. THE ABOVE HEIGHTS SHALL BE USED FOR REFERENCE TO NEAREST BLOCK OR BRICK COURSE. |



FIRST FLOOR SYSTEMS PLAN
SCALE: 1/8" = 1'-0"



ARCHITECTURAL DESIGN
INTERIOR DESIGN
CODE ANALYSIS
PLANNING SERVICES
REPORTS AND STUDIES
ENGINEERING SERVICES
HISTORIC PRESERVATION

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610.376.4927
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PROJECT #:
22-0012

CONSULTANT
SDE SYSTEMS DESIGN
ENGINEERING, INC.

PROJECT #: 22-0995-0133

PROFESSIONAL SEAL
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LEESPORT, PA 19533

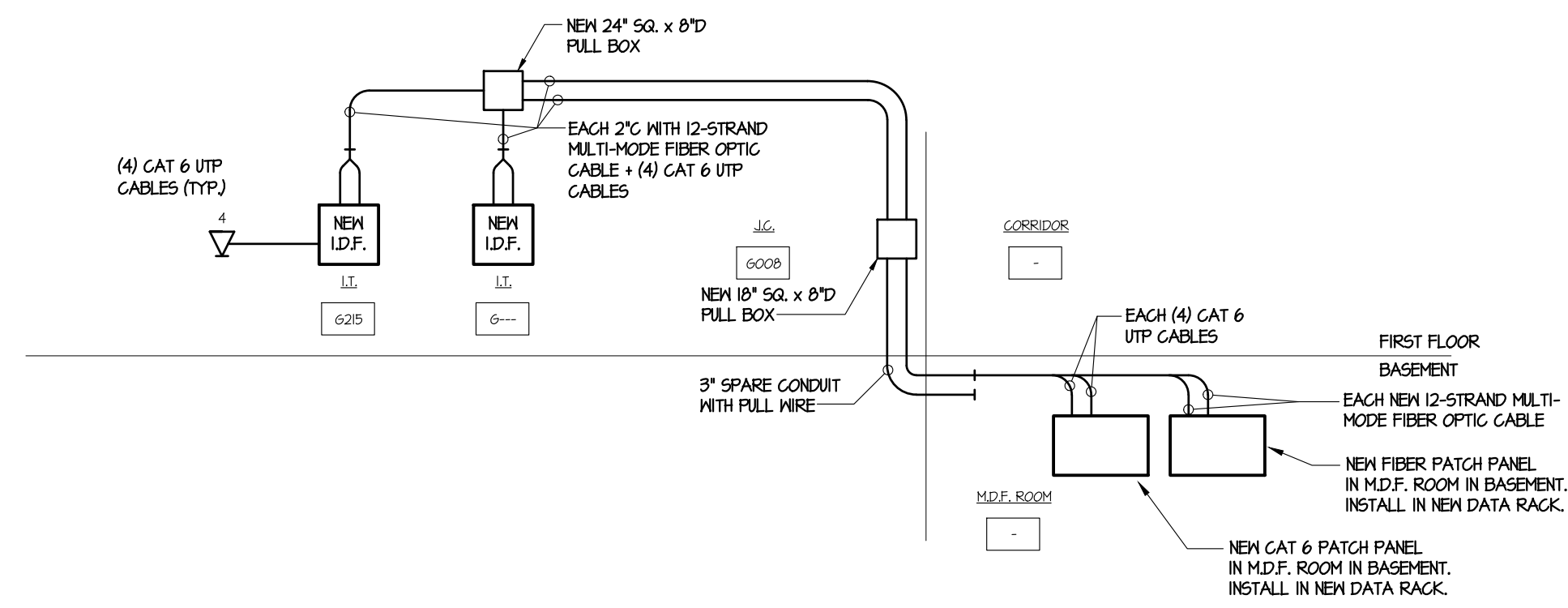
ISSUED		
REV#	DESCRIPTION	DATE
A	ISSUED FOR REVIEW	3/22/23

PROJ. MGR.: S. Gribb
P.M. e-MAIL: s.gribb@sdei.net
DRAWN BY: S.B.G
CLIENT PROJ #:

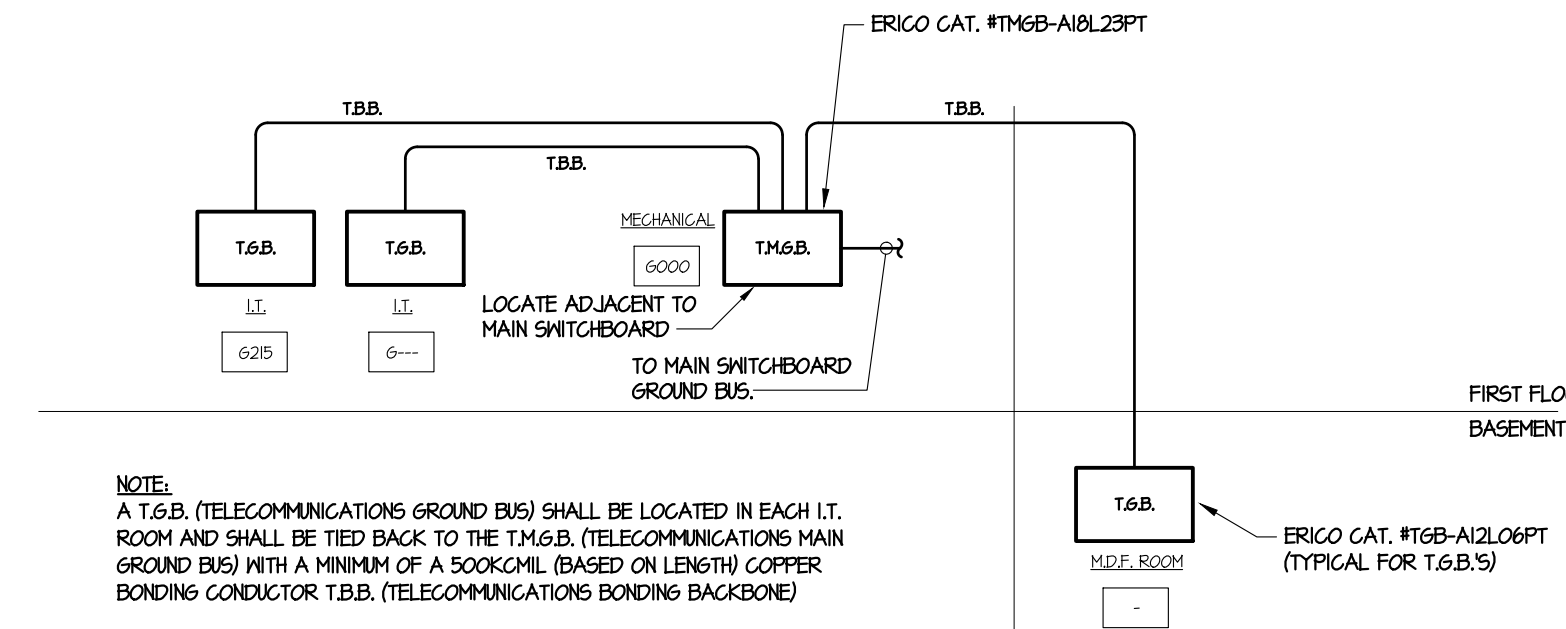
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SCALE: 1/8" = 1'-0"

SHEET TITLE:
FIRST FLOOR
SPECIAL SYSTEMS
PLAN

E301



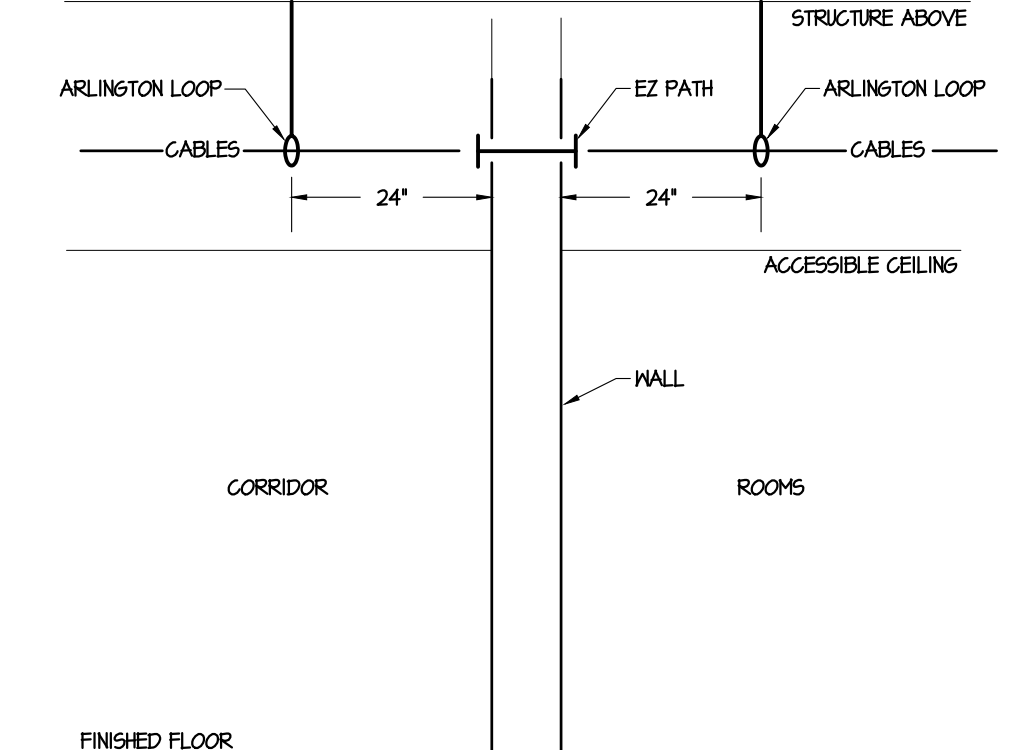
(9) DATA NETWORK RISER DIAGRAM
NOT TO SCALE



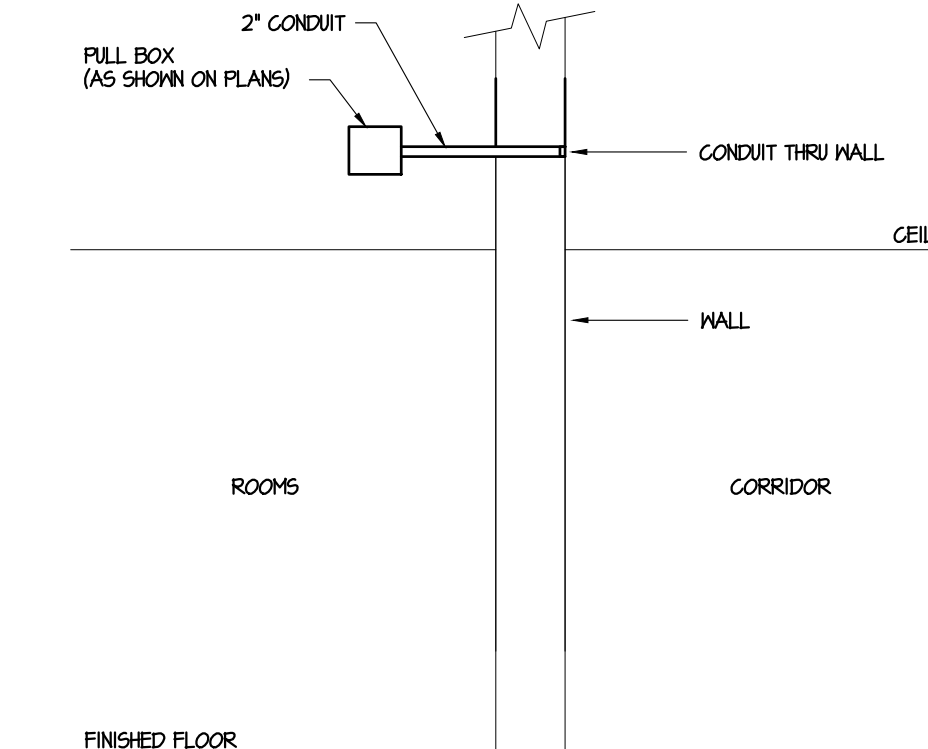
(8) TELECOMMUNICATION GROUNDING RISER
NOT TO SCALE

QUANTITY OF DATA CABLES IN CONDUIT										
CONDUIT SIZE	1/2"	3/4"	1"	1-1/4"	1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
QUANTITY OF CABLES	4	6	11	18	26	42	74	112	147	188
BASED ON 40% FILL OF CONDUIT USING ICH HITACHI PLUS CATEGORY 6 UTP CABLE										

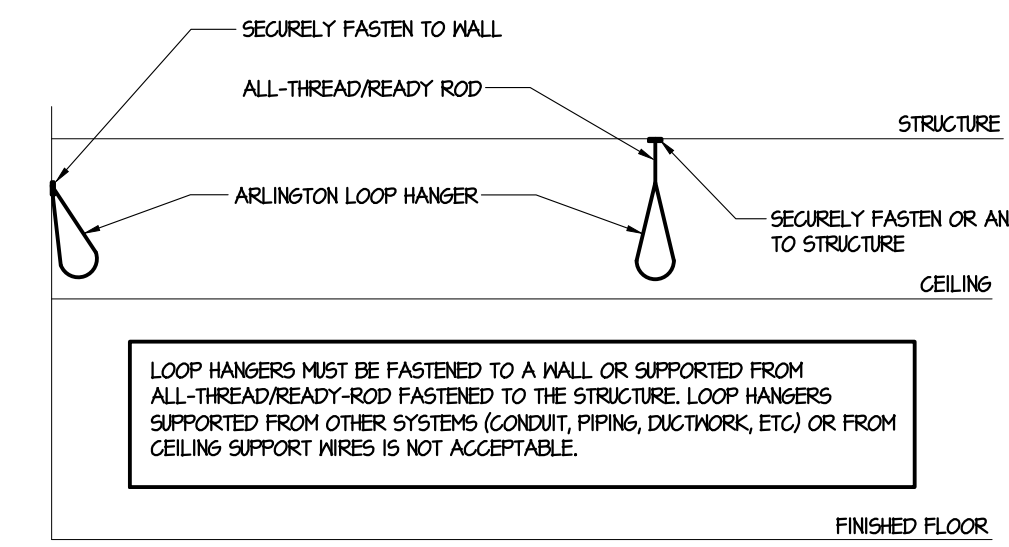
QUANTITY OF DATA CABLES IN EZ PATH		
EZ PATH SERIES	22	33
QUANTITY OF CABLES - FLEM	18	48
QUANTITY OF CABLES - RISER	15	66



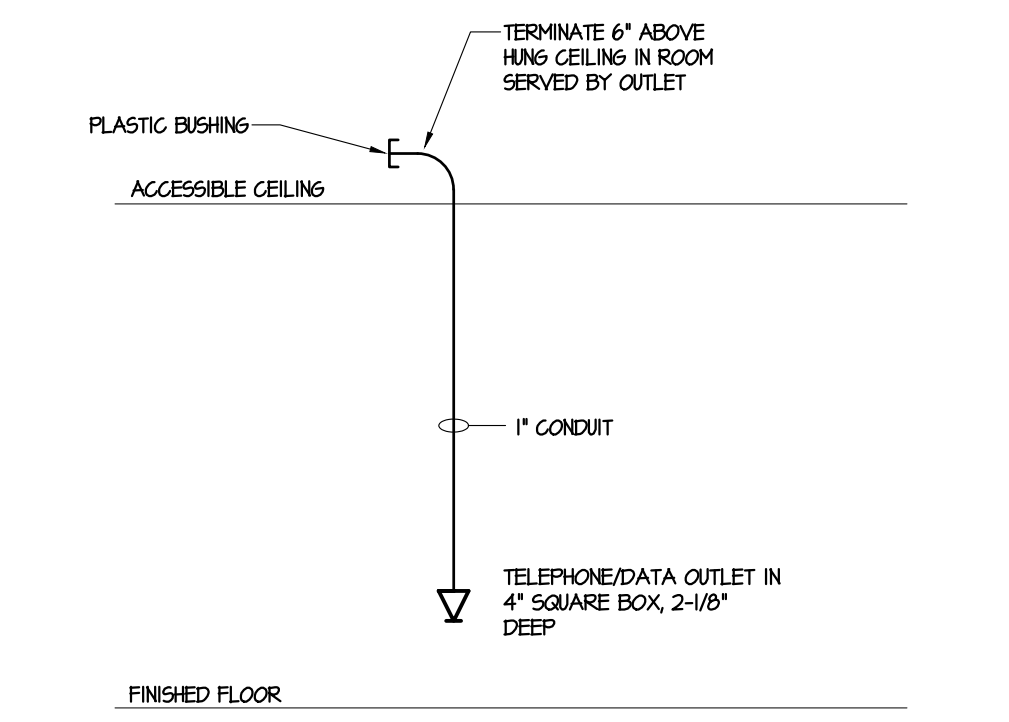
(1) EZ PATH / CABLE INSTALLATION DETAIL
NO SCALE



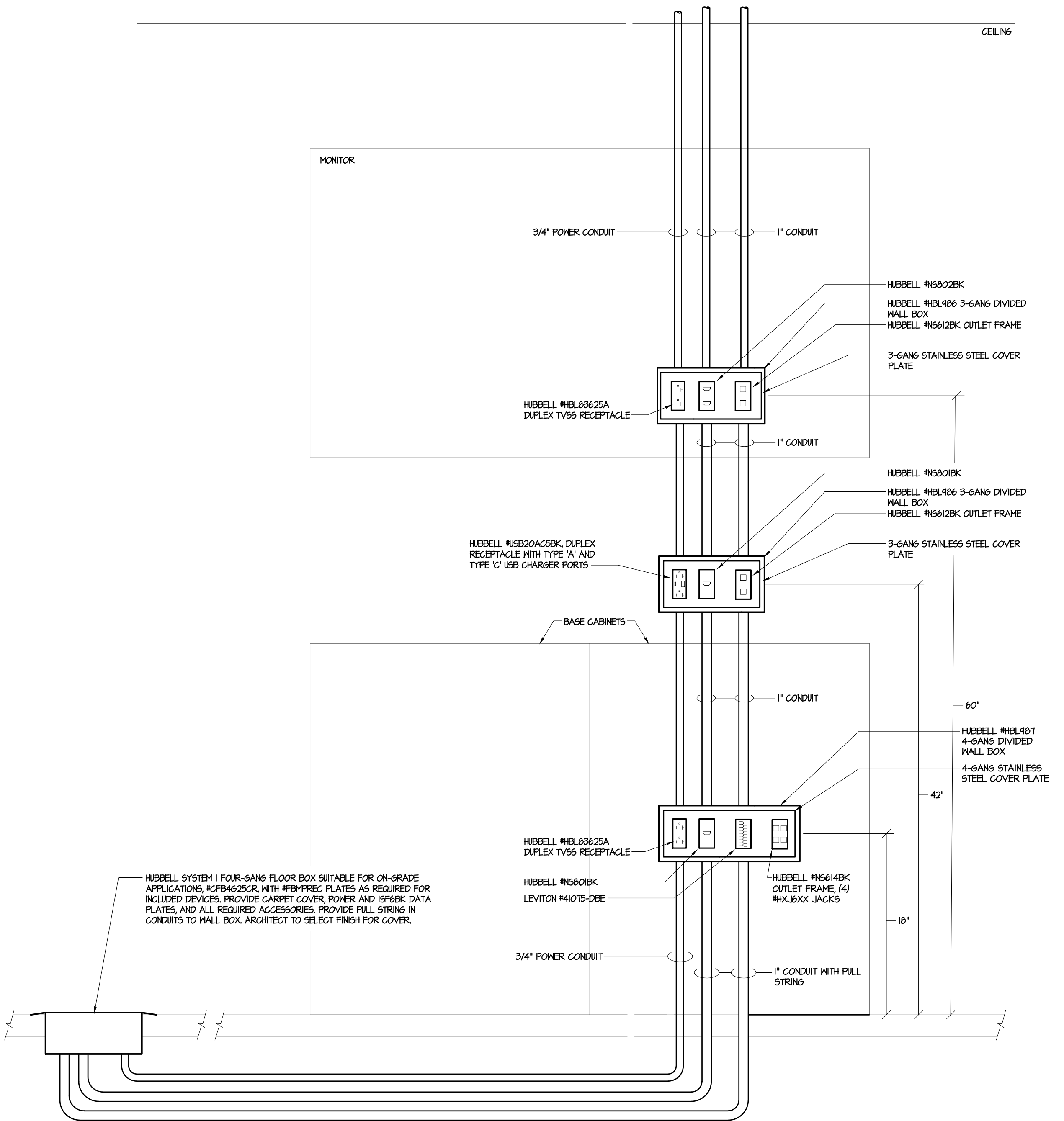
(5) CONDUIT PATH THROUGH WALL ELEVATION
NO SCALE



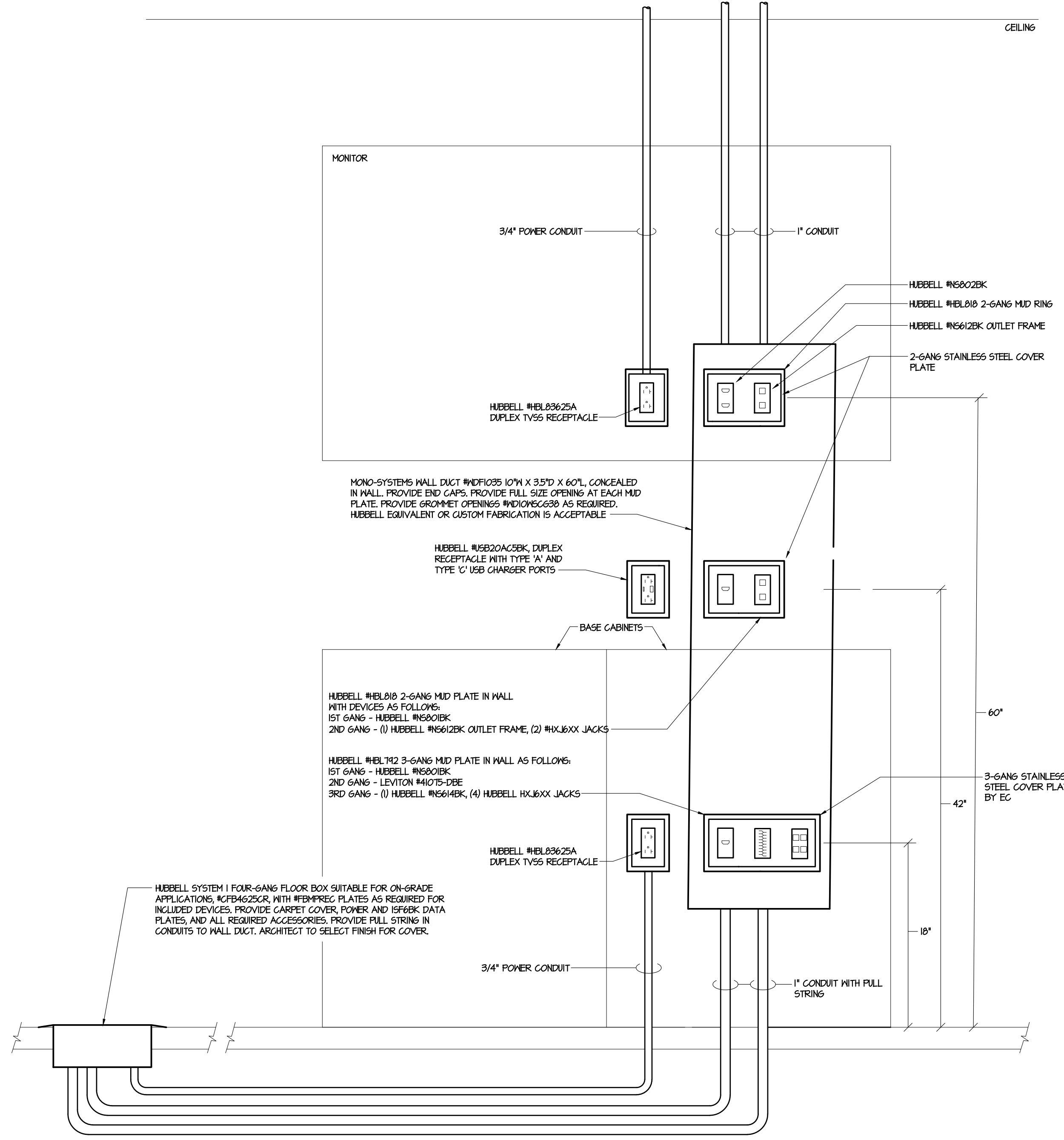
(2) LOOP HANGER DETAIL
NO SCALE



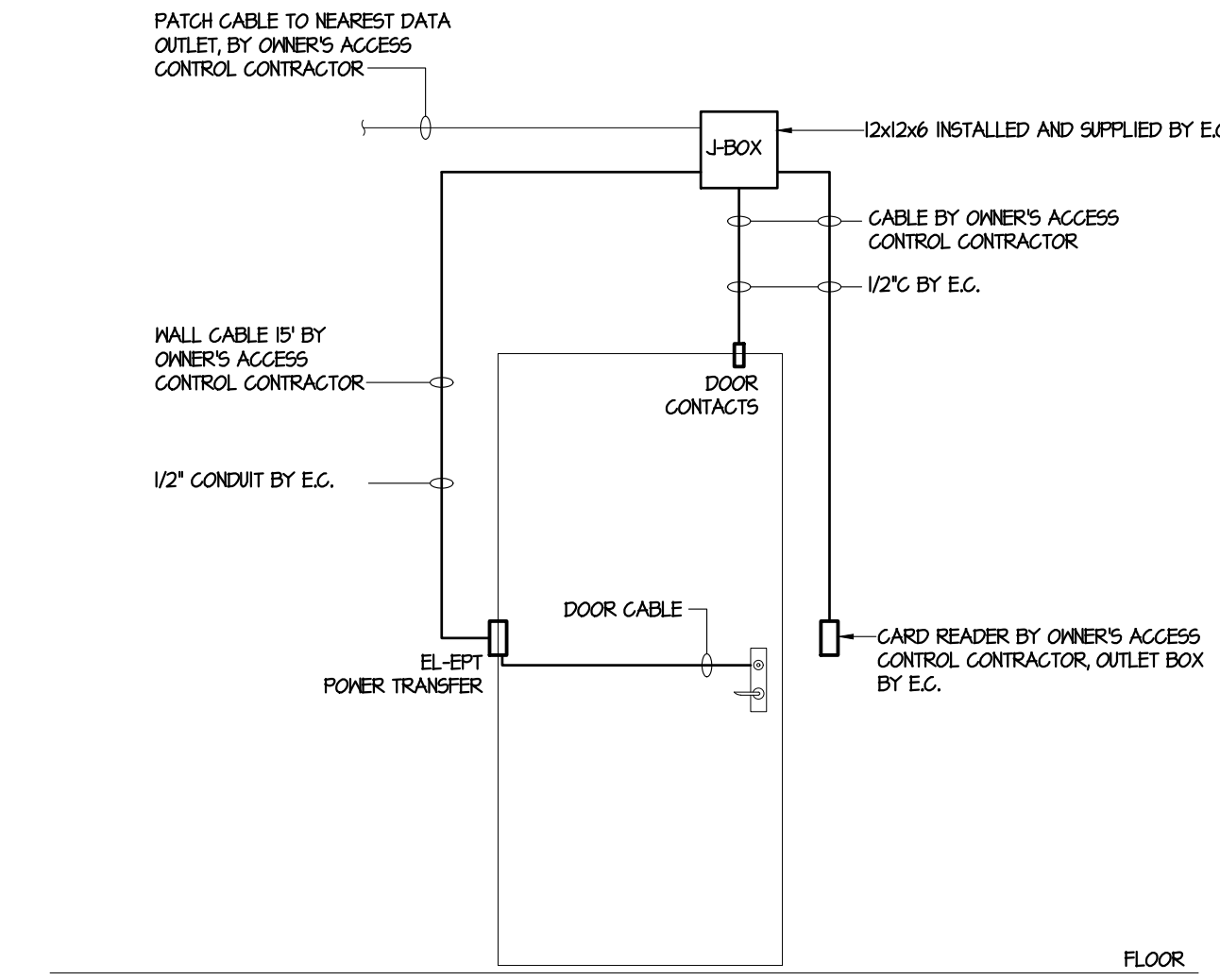
(3) TYPICAL TELEPHONE/DATA OUTLET IN NEW WALLS
NO SCALE



(7) CONFERENCE ROOM AV WIRING DETAIL MASONRY WALL CONSTRUCTION
NO SCALE



(6) CONFERENCE ROOM AV WIRING DETAIL STUD WALL CONSTRUCTION
NO SCALE



(4) ELECTRIC CARD READER FOR DOOR WIRING DIAGRAM
NOT TO SCALE

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ISSUED		
DATE	ISSUED BY	DATE
3/30/23	S. Gribb	

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P.M. e-MAIL: s.gribb@sdei.net
DRAWN BY: S.B.G.
CLIENT PROJ #:
0 1
SCALE
BAR (1" = 1') EXCLUDING ORIGINAL DRAWINGS

SHEET TITLE:
SPECIAL SYSTEMS DIAGRAMS & DETAILS

E302

