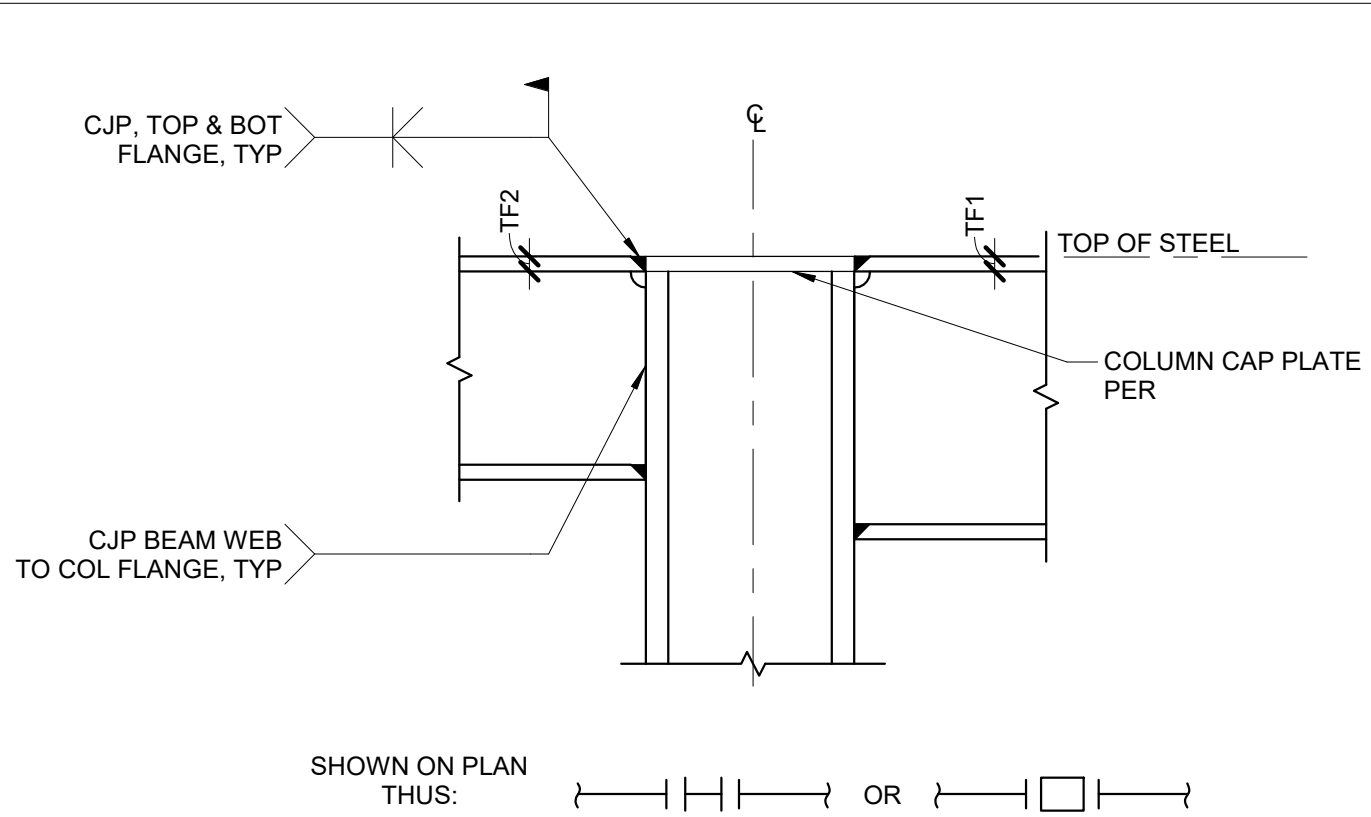
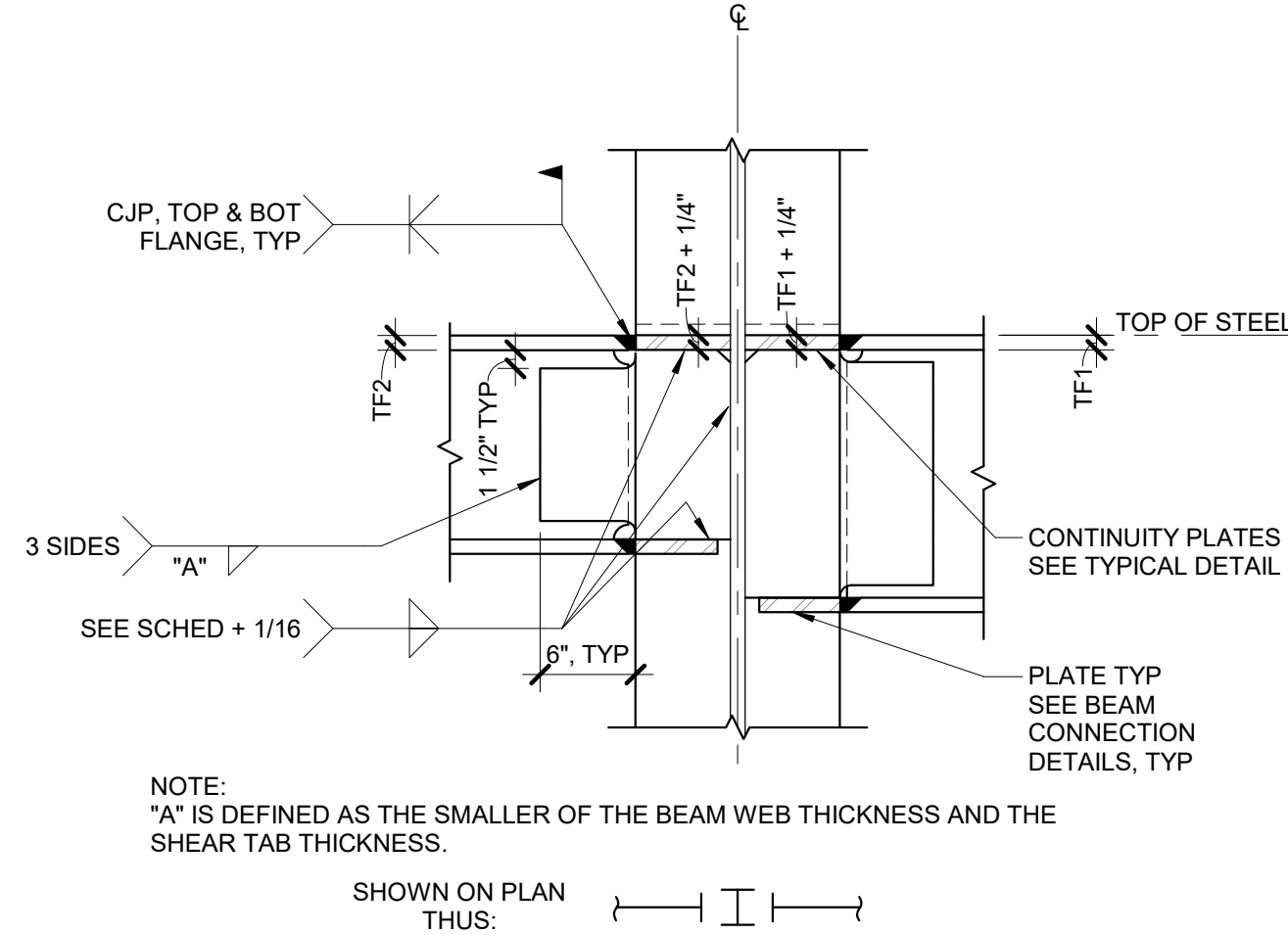
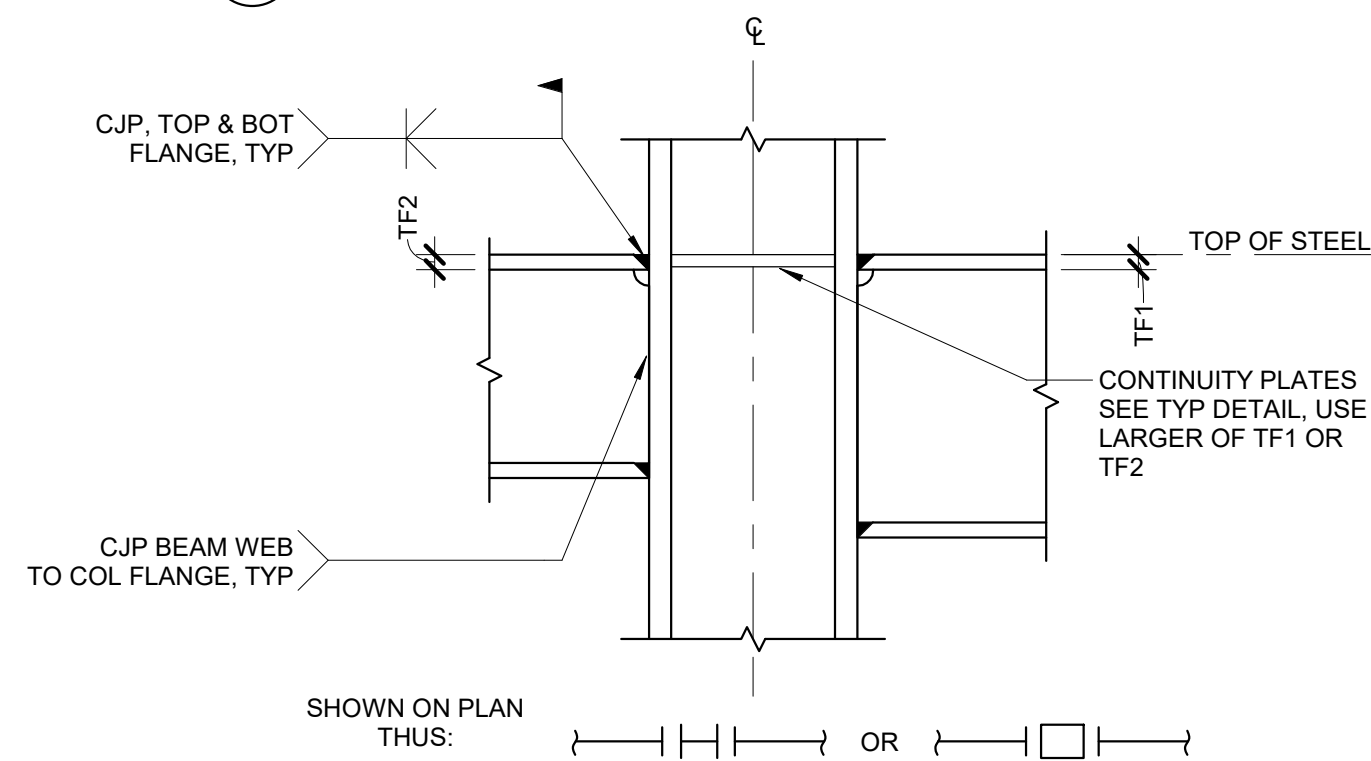




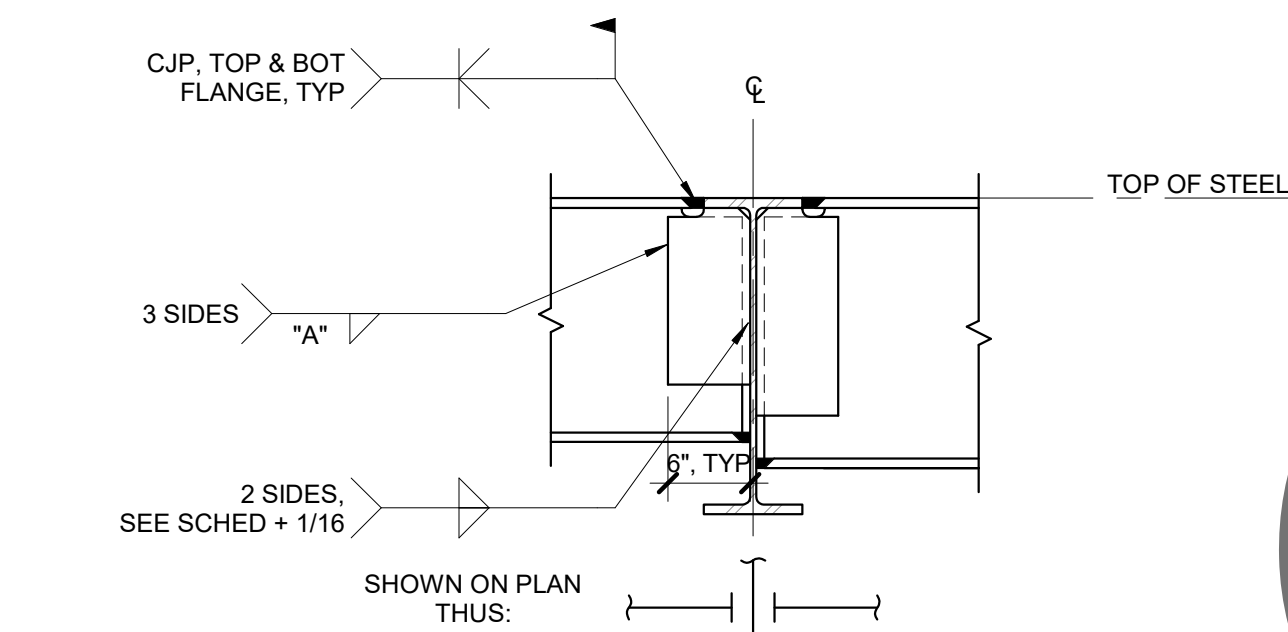
D BEAM TO COLUMN TOP FLANGE CONN
AT TOP OF COLUMN



C BEAM TO COLUMN WEB TOP FLANGE CONN



B BEAM TO COLUMN WEB FLANGE CONN

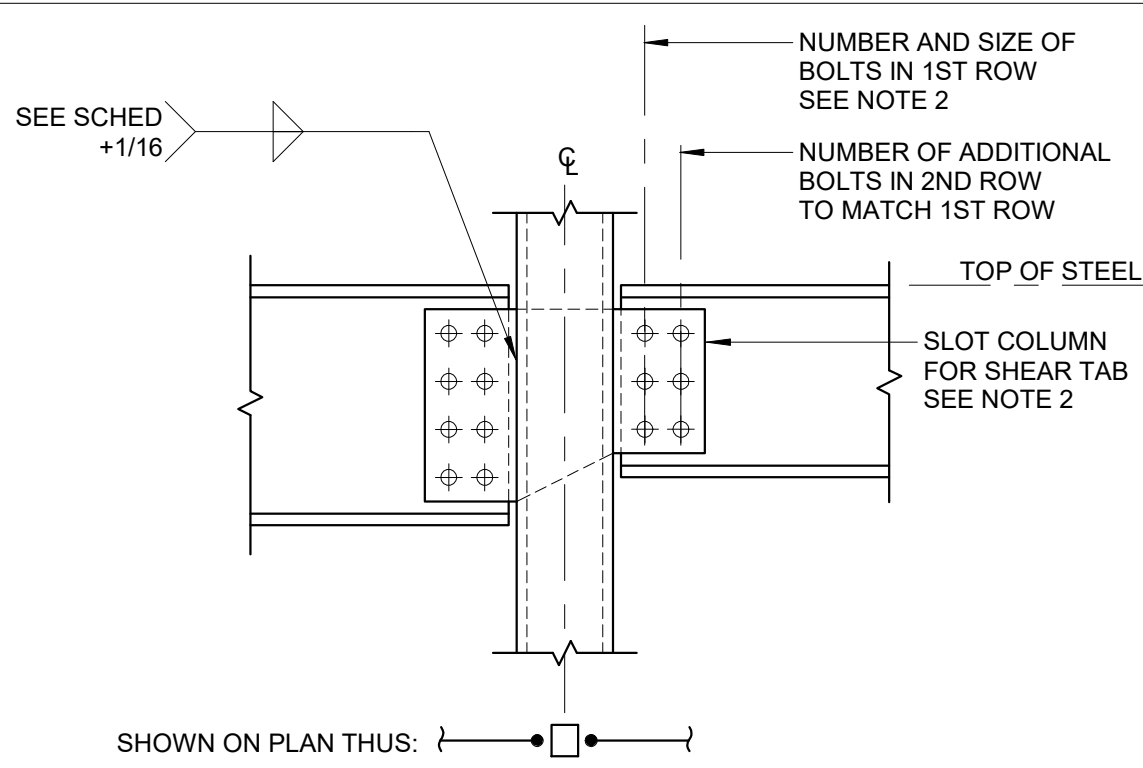


A BEAM TO BEAM TOP FLANGE CONNECTION

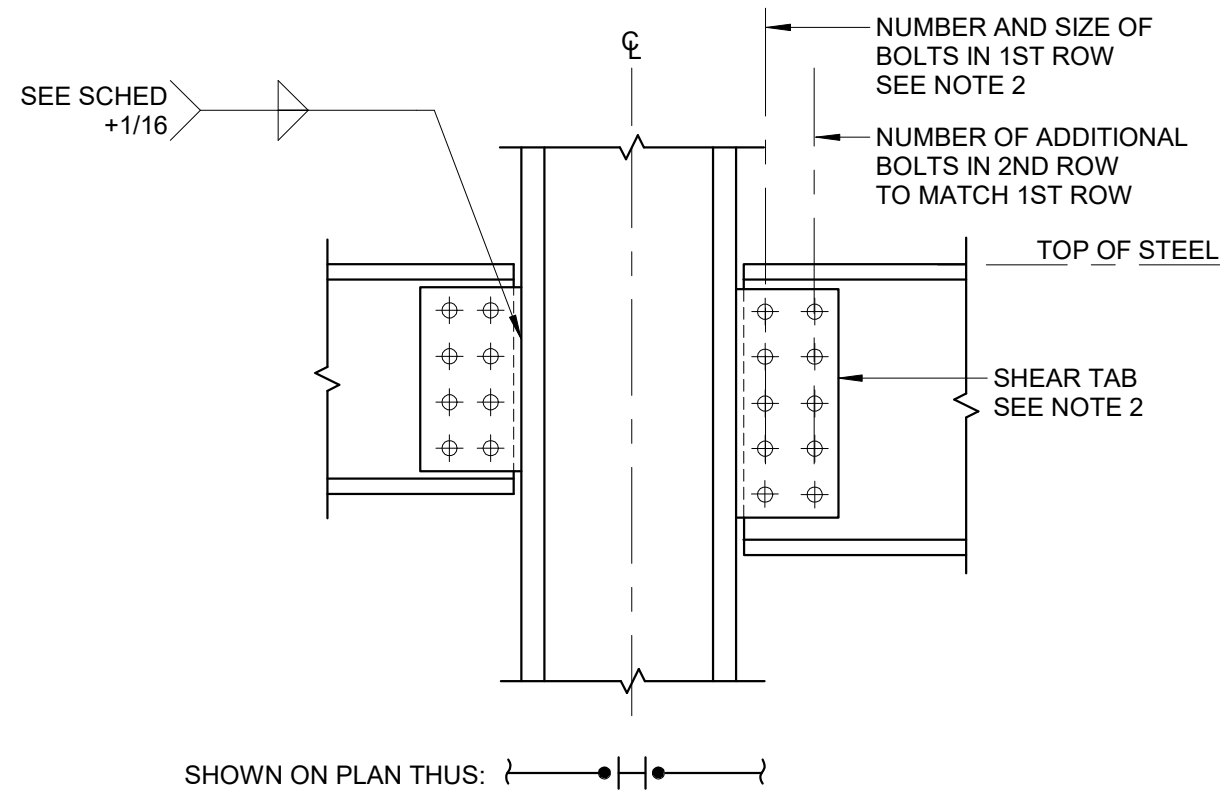
- NOTE:
"A" IS DEFINED AS THE SMALLER OF THE BEAM WEB THICKNESS AND THE SHEAR TAB THICKNESS.
- NOTES:
1. FOR SHEAR TAB THICKNESS, AND TAB WELDING SEE "NON-MOMENT BEAM CONNECTION SCHEDULE" ON
 2. SHEAR TAB TO BE ASTM A572 GRADE 50.
 3. ALL WELDS USED IN MEMBERS AND CONNECTIONS IN THE SFRS SHALL COMPLY WITH AISC 341-16 CHAPTER A, AND BOLTING MEETING SFRS CHAPTER D
 4. ALL WELDS SHALL MEET CVN FILLER METAL (SFRS) REQUIREMENTS.

COLLECTOR CONNECTION (WELDED CONNECTION)

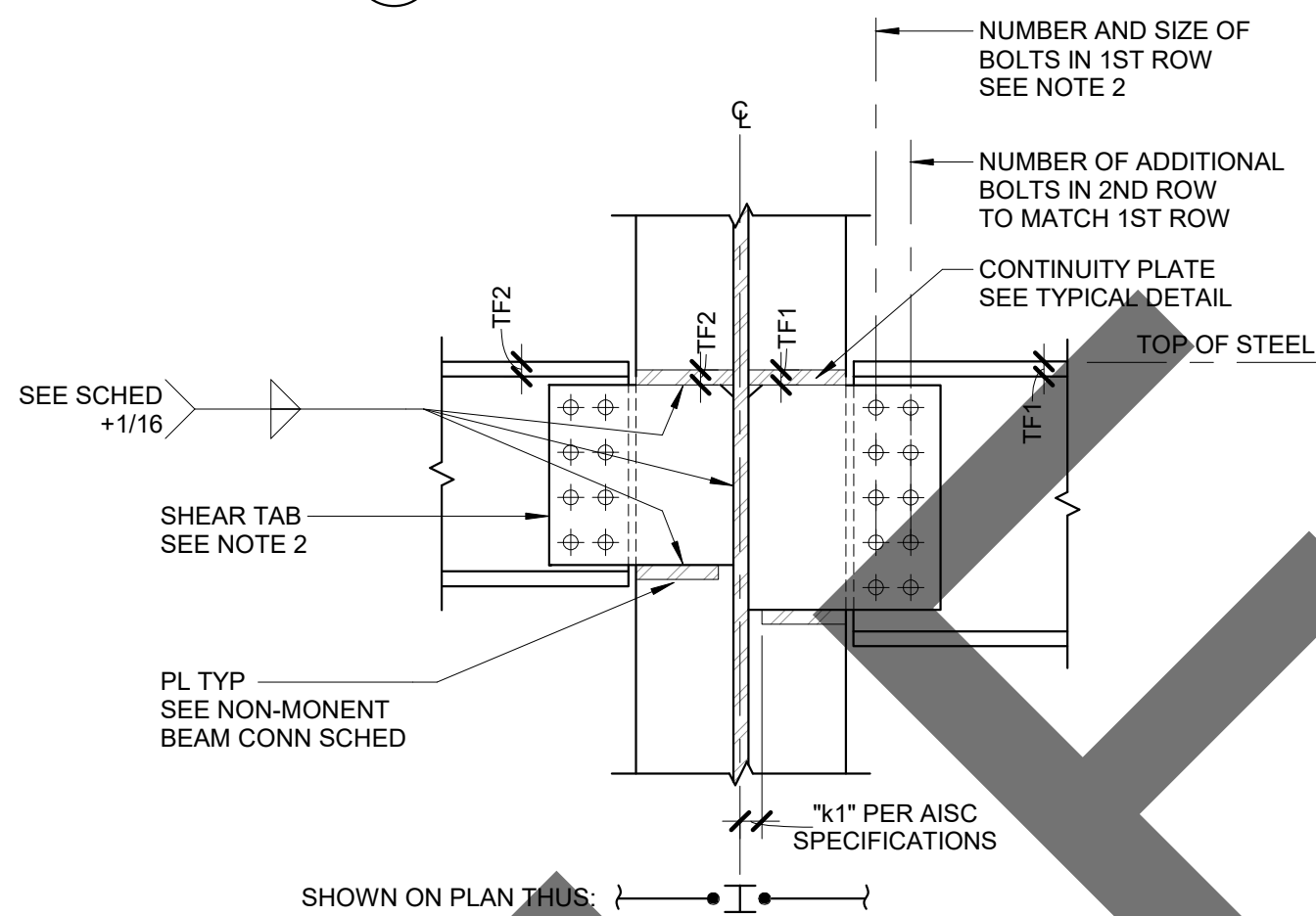
1 NO SCALE



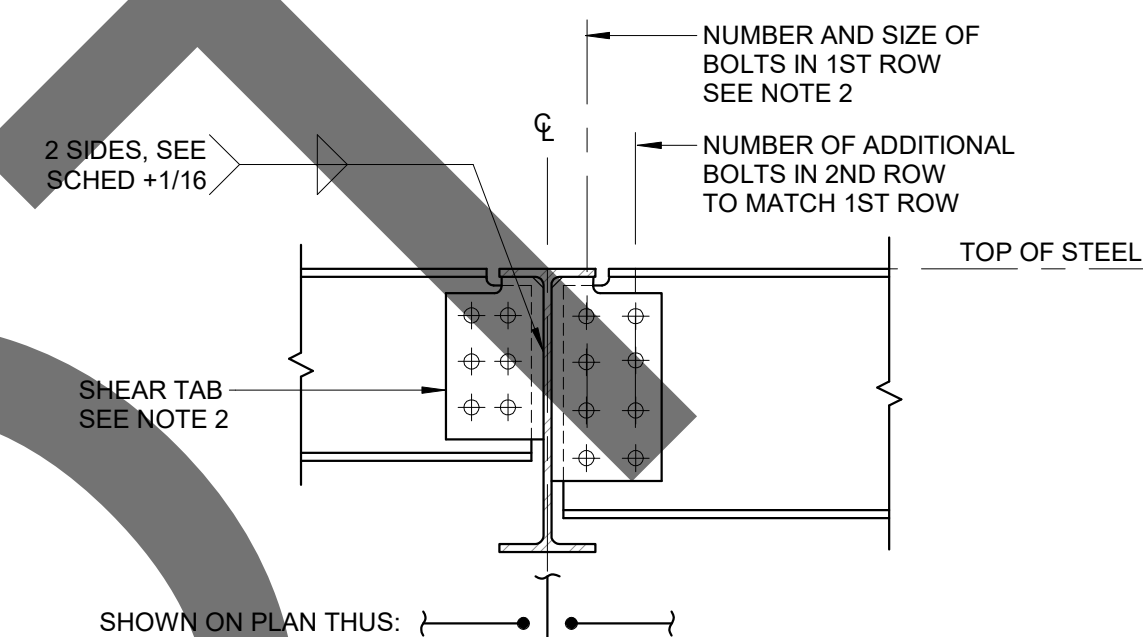
D BEAM TO HSS COLUMN



C BEAM TO COLUMN FLANGE



B BEAM TO COLUMN WEB

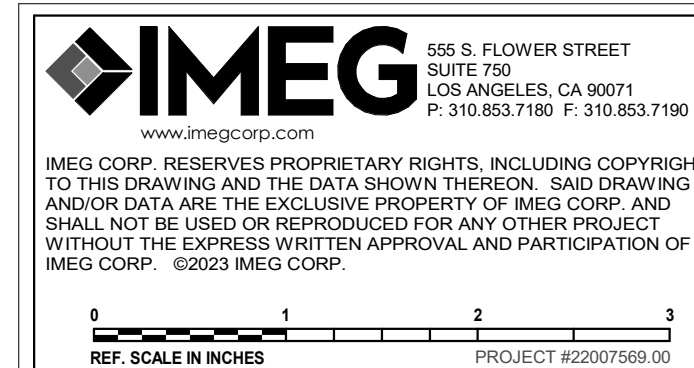


A BEAM TO BEAM

- NOTES:
1. FOR EDGE DISTANCE AND BOLT SPACING SEE AISC SPECIFICATIONS TYP
 2. FOR SHEAR TAB THICKNESS, NUMBER OF BOLTS, AND TAB WELDING SEE "NON-MOMENT BEAM CONNECTION SCHEDULE" ON
 3. ALL BOLTS AT COLLECTOR CONNECTIONS SHALL BE PRETENSIONSED AND SHALL MEET THE REQUIREMENTS FOR SLIP-CRITICAL FAYING SURFACES IN ACCORDANCE WITH AISC 360-16 SECTION J3.8 WITH A CLASS A SURFACE.
 4. SHEAR TAB TO BE ASTM A572 GRADE 50.
 5. ALL WELDS USED IN MEMBERS AND CONNECTIONS IN THE SFRS SHALL COMPLY WITH AISC 341-16 CHAPTER A, AND BOLTING MEETING SFRS CHAPTER D
 6. ALL WELDS SHALL MEET CVN FILLER METAL (SFRS) REQUIREMENTS.

COLLECTOR CONNECTION (BOLTED CONNECTION)

2 NO SCALE



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owner approval		
initials	date	phase

REVISIONS/ADDENDA		
#	Date	Comment
1	06/12/24	PLAN CHECK RESUBMITTAL

ANIMAL CARE CENTER
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PROJECT INFORMATION	
Project Number:	22007569.00
Drawn By:	HYK
Checked By:	JP
Issue Date:	06/12/2024

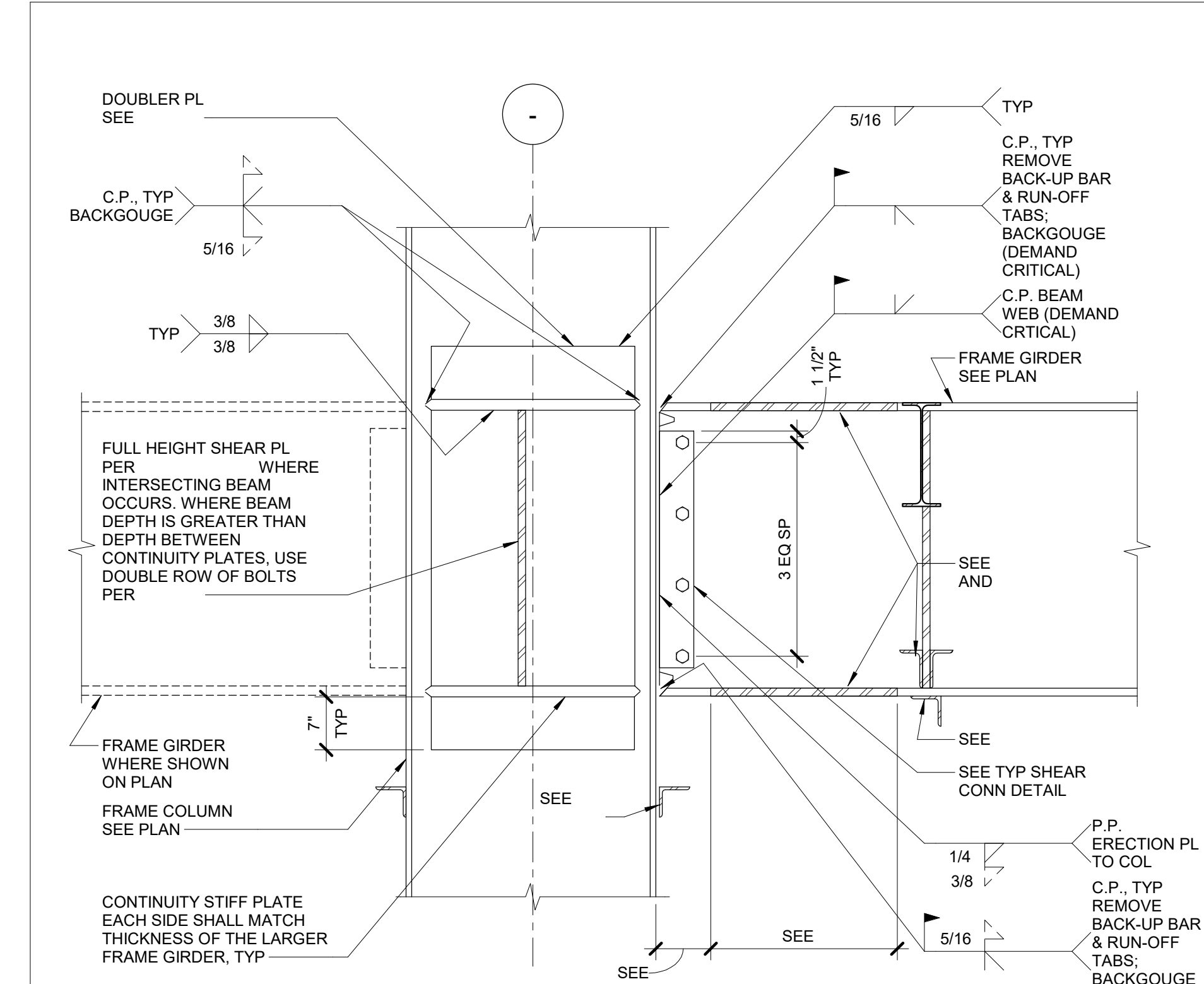
SHEET NAME

TYPICAL STEEL DETAILS

SHEET NUMBER

S-504

Sheet Of Sheets



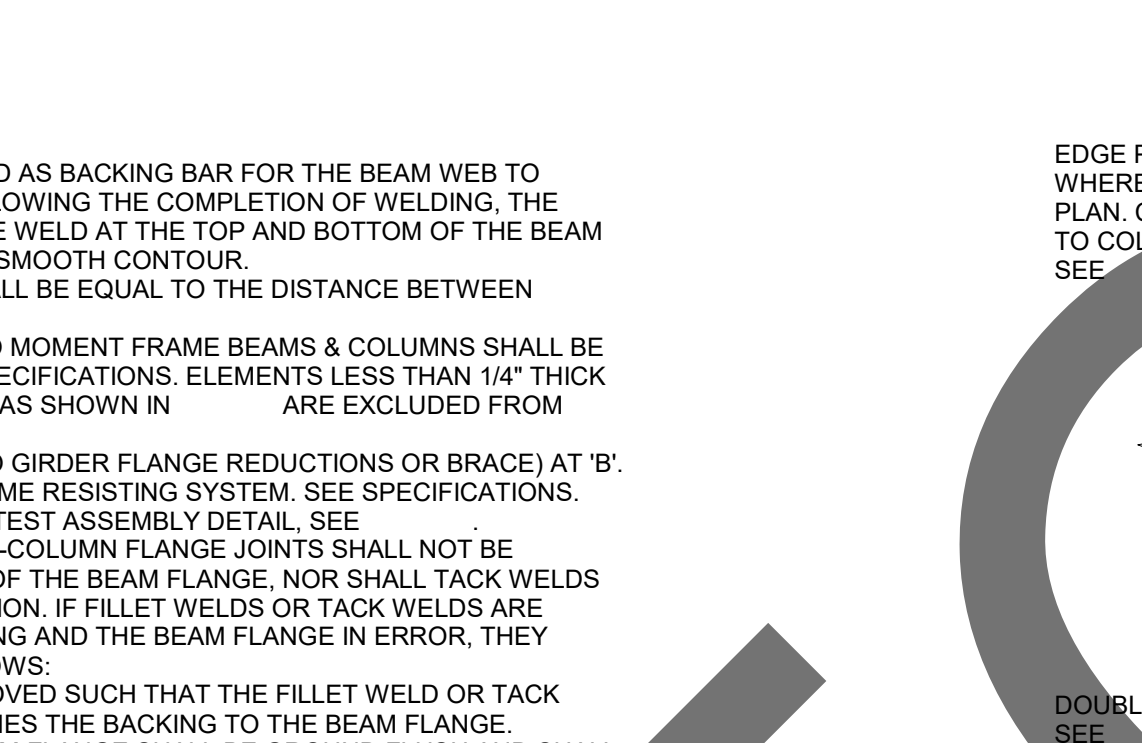
NOTES:

- ALL C.P. & FILLET WELDS SHALL BE MADE WITH E71-T8 ELECTRODES WITH SPECIFIED CVN=20 FT-LBS AT -20°F AND 40 FT-LBS AT 70°F.
- ALL CONNECTION PLATES INCLUDING CONTINUITY, DOUBLER PLATES & COLUMN CAP PLATE SHALL BE A572 GRADE 50.
- RBS CUT TOLERANCES:
THE RBS SHALL BE MADE USING THERMAL CUTTING. THERMAL CUTTING TOLERANCES SHALL BE PLUS OR MINUS 1/4" FROM THE THEORETICAL CUT LINE. THE BEAM EFFECTIVE FLANGE WIDTH AT ANY SECTION SHALL HAVE A TOLERANCE OF PLUS OR MINUS 3/8".
- CUT SURFACE ROUGHNESS:
THE MAXIMUM SURFACE ROUGHNESS OF THE THERMALLY CUT SURFACE SHALL BE 500 MICRO INCHES IN ACCORDANCE WITH ANSI B46.1, AS MEASURED USING AWS C4.1-77 SAMPLE 4. ALL TRANSITIONS BETWEEN THE RBS AND THE UNMODIFIED BEAM FLANGE SHALL BE ROUNDED IN THE DIRECTION OF THE FLANGE LENGTH TO MINIMIZE NOTCH EFFECTS DUE TO ABRUPT TRANSITIONS. CORNERS BETWEEN THE RBS SURFACE AND THE TOP & BOTTOM OF FLANGES SHALL BE GROUND TO REMOVE SHARP EDGES BUT A MINIMUM CHAMFER OR RADIUS IS NOT REQUIRED.
- GOUGES AND NOTCHES:
GOUGES AND NOTCHES THAT OCCUR IN THE THERMAL CUT RBS SURFACE MAY BE REPAIRED BY GRINDING IF NOT MORE THAN 1/4" DEEP. THE GOUGED OR NOTCHED AREA SHALL BE GROUND SO THAT A SMOOTH TRANSITION EXISTS, AND THE TOTAL LENGTH OF THE AREA GROUND FOR THE TRANSITION SHALL BE NO LESS THAN 5 TIMES THE DEPTH OF THE REMOVED GOUGE ON EACH SIDE OF THE GOUGE. IF A SHARP NOTCH EXISTS, THE AREA SHALL BE INSPECTED BY MAGNETIC PARTICLE TESTING AFTER GRINDING TO ENSURE THAT THE ENTIRE DEPTH OF NOTCH HAS BEEN REMOVED. GRINDING MAY NOT INCREASE THE DEPTH OF THE RBS CUT SECTION MORE THAN 1/4" BEYOND THE SPECIFIED DEPTH OF CUT.
- PENETRATIONS THROUGH WEBS OR HOLES IN FLANGES ARE NOT PERMITTED IN THE LENGTH BETWEEN THE COLUMN FACE AND THE FAR END OF THE REDUCED FLANGE-CUT SECTION (LENGTH 7"×B'). SEE
- NO WELDING OF DOUBLER PLATE OR CONTINUITY PLATE TO COLUMN WEB IN THE "K ZONE" AREA (K+1 1/2" MIN) WILL BE PERMITTED, SEE UON.
- ERECTION PLATE MAY BY USED AS BACKING BAR FOR THE BEAM WEB TO COLUMN GROOVE WELD. FOLLOWING THE COMPLETION OF WELDING, THE TERMINATION OF THE GROOVE WELD AT THE TOP AND BOTTOM OF THE BEAM WEB SHALL BE GROUND TO A SMOOTH CONTOUR.
- ERECTION PLATE LENGTH SHALL BE EQUAL TO THE DISTANCE BETWEEN ACCESS HOLES PLUS 1/4".
- ANY ELEMENT CONNECTED TO MOMENT FRAME BEAMS & COLUMNS SHALL BE PREHEATED PER WELDING SPECIFICATIONS. ELEMENTS LESS THAN 1/4" THICK CONNECTED TO 3/16" ANGLES AS SHOWN IN ARE EXCLUDED FROM PREHEATING REQUIREMENTS.
- INDICATES NO RBS (NO GIRDER FLANGE REDUCTIONS OR BRACE) AT 'B'.
- (SFRS) DENOTES SEISMIC FRAME RESISTING SYSTEM. SEE SPECIFICATIONS.
- FOR WELDER QUALIFICATION TEST ASSEMBLY DETAIL, SEE
- BACKING AT BEAM FLANGE-TO-COLUMN FLANGE JOINTS SHALL NOT BE WELDED TO THE UNDERSIDE OF THE BEAM FLANGE, NOR SHALL TACK WELDS BE PERMITTED AT THIS LOCATION. IF FILLET WELDS OR TACK WELDS ARE PLACED BETWEEN THE BACKING AND THE BEAM FLANGE IN ERROR, THEY SHALL BE REPAIRED AS FOLLOWS:
A. THE WELD SHALL BE REMOVED SUCH THAT THE FILLET WELD OR TACK WELD NO LONGER ATTACHES THE BACKING TO THE BEAM FLANGE.
B. THE SURFACE OF THE BEAM FLANGE SHALL BE GROUND FLUSH AND SHALL BE FREE OF DEFECTS.
C. ANY GOUGES OR NOTCHES SHALL BE REPAIRED, REPAIR WELDING SHALL BE DONE WITH E7018 SMAW ELECTRODES OR OTHER FILLER METALS MEETING THE REQUIREMENTS OF SECTION 3.1 FOR DEMAND CRITICAL WELDS. A SPECIAL WELDING PROCEDURE SPECIFICATION (WPS) IS REQUIRED FOR THIS REPAIR. FOLLOWING WELDING, THE REPAIR SHALL BE GROUND SMOOTH.

WELD ACCESS HOLE AND BEAM COPE DETAIL

2

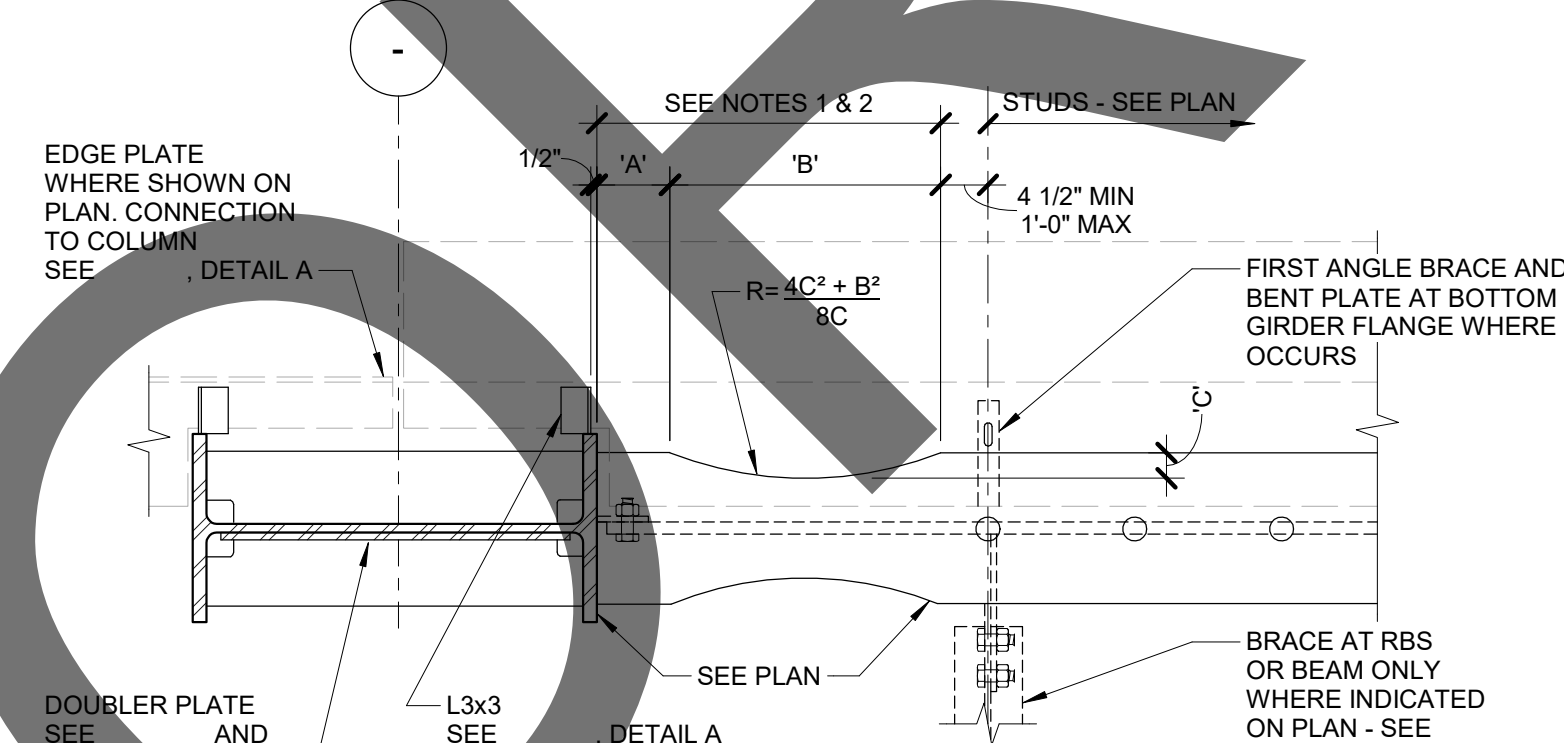
3/4" = 1'-0"



LATERAL SUPPORT AT RBS GIRDER

3

1" = 1'-0"



NOTES:

- HEADED STUD ANCHORS SHALL NOT BE INSTALLED OVER THIS LENGTH. NO HOLES SHALL BE DRILLED OR PUNCHED IN EITHER FLANGE OF THE BEAM WITHIN THIS LENGTH. SPOT WELDS FOR THE ATTACHMENT OF STEEL DECKING ARE PERMITTED.
- WELDED OR BOLTED ATTACHMENTS FOR EXTERIOR FACADES, PARTITIONS, DUCTING, PIPING OR OTHER CONSTRUCTION SHALL NOT BE PLACED OVER THIS LENGTH. SHOT-PINS OR SCREWED ATTACHMENTS SHALL ALSO NOT BE PERMITTED. BEAM WEB SHALL NOT BE PENETRATED OVER THIS LENGTH. PROVIDE A SIGN/NOTICE AT RBS CONNECTION SO THAT OTHER TRADES WILL COMPLY WITH NOTE 2.

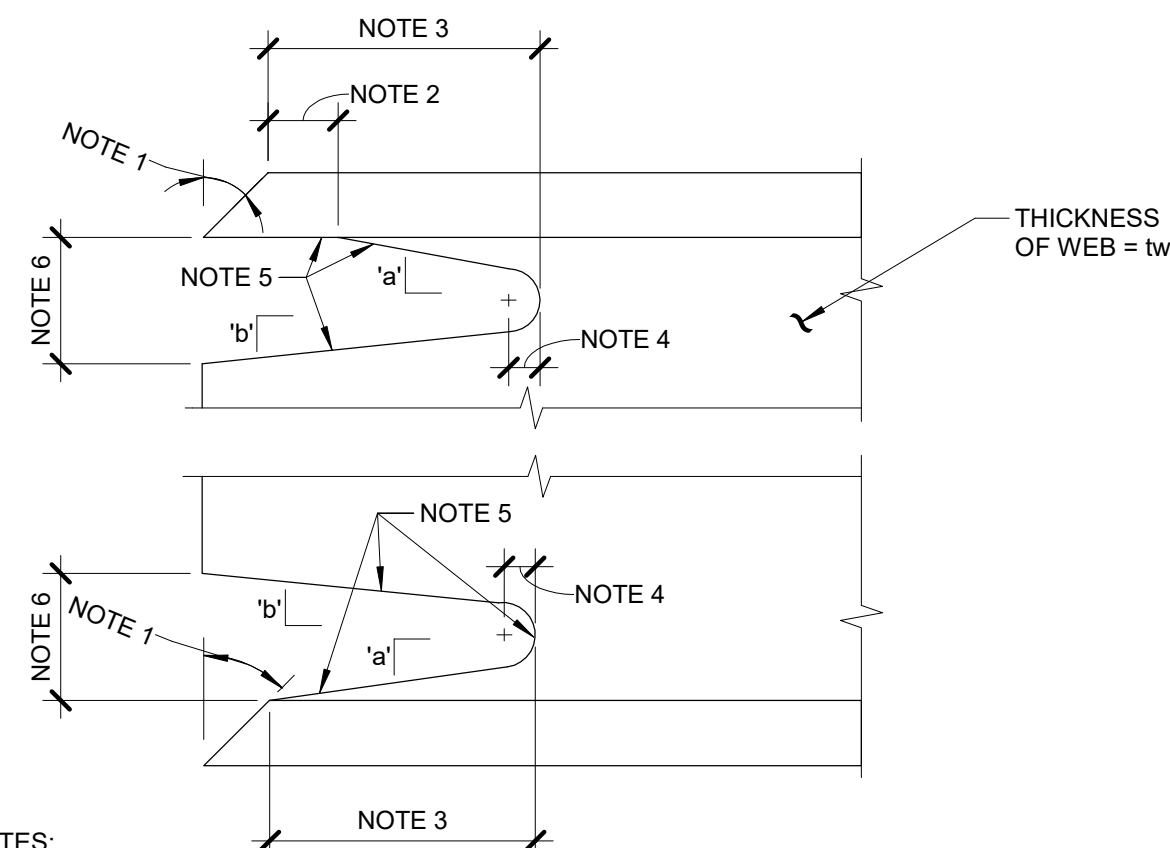
RBS DIMENSIONS

GIRDER	'A'	'B'	'C'
W36x160	6 1/2"	24"	3"
W36x210	7"	24"	3"
W36x302	8 1/2"	25"	4"
W36x256	8 1/2"	24 1/2"	3"

TYPICAL RBS DETAIL

4

3/4" = 1'-0"



NOTES:

- BEVEL PER APPLICABLE WPS.
- THE BOTTOM OF TOP FLANGE IS TO BE CONTOURED TO PERMIT THE TIGHT FIT OF BACKING BARS WHERE THEY ARE TO BE USED.
- WIDTH: GREATER OF 1.5w OR 1 1/2" (TOLERANCE: +1/4").
- 3/8" MIN.; (TOLERANCE: -0, + UNLIMITED).
- SURFACE ROUGHNESS PER NOTE 4 IN . SLOPE 'a' FORMS A TRANSITION FROM THE WEB TO THE FLANGE. SLOPE 'b' MAY BE HORIZONTAL.
- HEIGHT: GREATER OF 1.5w OR 1". NEED NOT EXCEED 2".
- WELD ACCESS HOLE SHALL BE INSPECTED USING MAGNETIC PARTICLE OR LIQUID PENETRANT TESTING.

TYPICAL WELD ACCESS HOLE

7

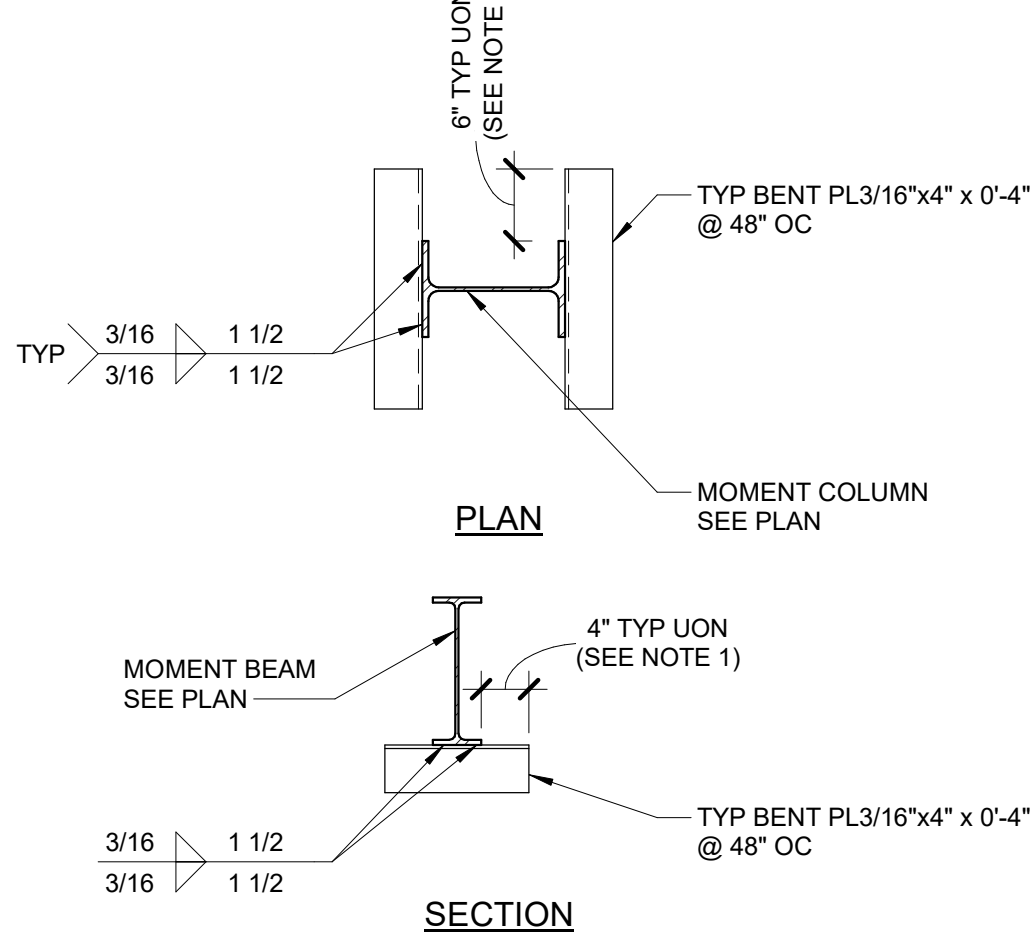
3/4" = 1'-0"



TYPICAL SFRS DETAIL

5

NO SCALE



NOTE:

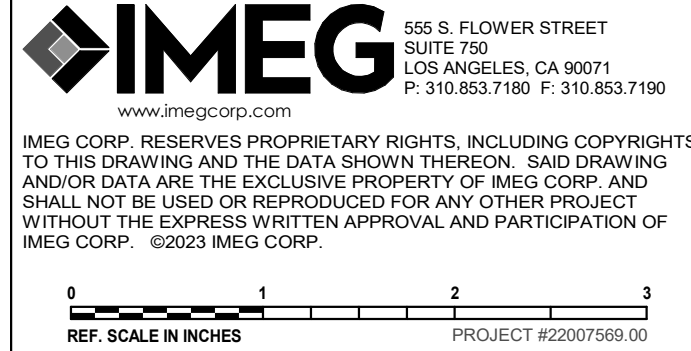
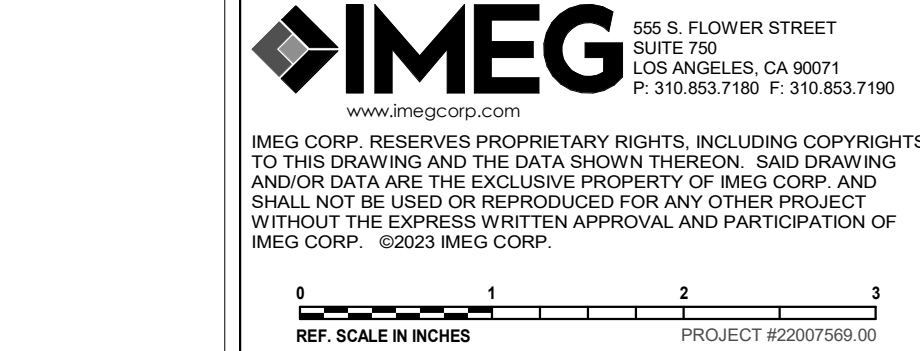
- CONTRACTOR TO VERIFY AND ENSURE WITH ARCH & MISC TRADES THAT BENT PLATE DOES NOT EXTEND BEYOND OR INTO ARCH FINISHES.

WELD TERMINATION GROOVE WELD BACKING

8

3/4" = 1'-0"

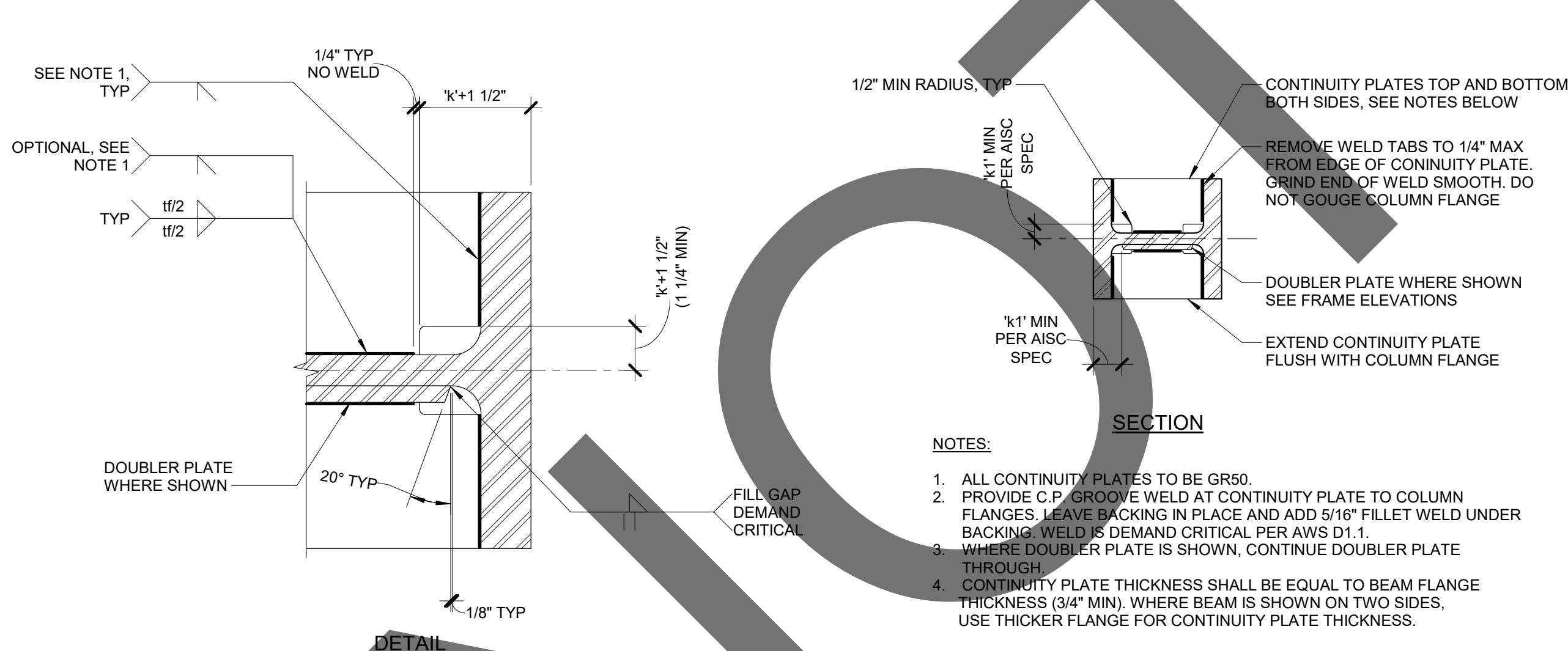
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TYPICAL RBS CONNECTION DETAIL

1

3/4" = 1'-0"



TYPICAL CONTINUITY PLATE DETAIL

6

3/4" = 1'-0"



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initials	date	phase

REVISIONS/ADDENDA

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PROJECT INFORMATION

Project Number:	22007569.00
Drawn By:	HYK
Checked By:	JP
Issue Date:	06/12/2024

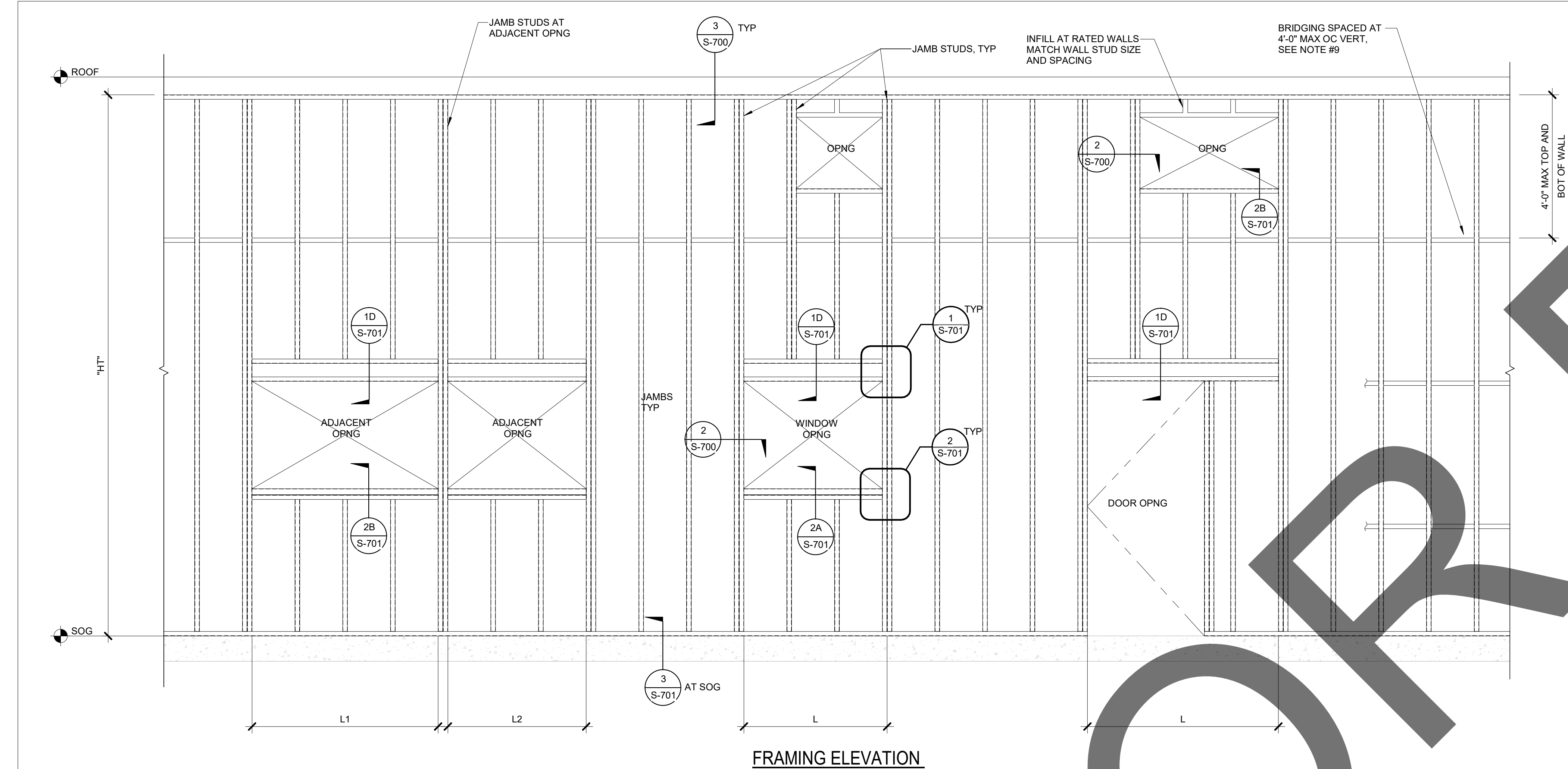
SHEET NAME

TYPICAL STEEL DETAILS

SHEET NUMBER

S-505

Sheet Of Sheets



FRAMING ELEVATION

1. PROVIDE STUDS, TRACKS AND BRACING PER SCHEDULE BELOW:

LOAD BEARING EXTERIOR METAL STUD WALL SCHEDULE						
REF: STEEL STUD MANUFACTURER'S ASSOCIATION (ER-4943P)						
MAX. WALL HEIGHT "H"	NOMINAL STUD SIZE	SSMA PRODUCT IDENTIFICATION	STUD SPACING	MINIMUM PROPERTIES		
				Ix in ⁴	Sx in ³	Ma in-k
STUDS						
12'-6"	6"x1 5/8"x16GA	600S162-54	16" OC	2.860	0.953	25.90
15'-0"	6"x2"x14GA	600S200-68	16" OC	4.101	1.367	39.69
18'-0"	6"x2"x12GA	600S200-97	16" OC	5.612	1.871	63.67
25'-0"	(2)-6"x3"x12GA	(2)-600S300-97	16" OC	14.76	4.92	129.3
TRACKS						
BOTTOM TRACK	6" x 1 1/2" x 14GA	600T150-68	-	3.309	1.059	26.68
TOP TRACK	6" x 1 1/2" x 14GA	600T150-68	-	3.309	1.059	26.68
CAPPING TRACK	6" x 2" x 14GA	600T200-68	-	3.990	1.277	29.12

2. ALL STUDS AND TRACKS SHALL CONFORM TO ASTM A653, A1008 OR A1011.

a. MINIMUM YIELD POINT OF 50 KSI.
b. ALL STUDS AND TRACKS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) LISTED IN ICC REPORT NO. ER-4943P. ALL STUDS AND TRACKS SHALL COMPLY WITH ICC REPORT NO. ER-4943P.

3. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON AN ANGLE (SUCH AS BRACING) TO SQUARELY FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.

4. STUDS AND TRACKS SHALL BE JOINED TOGETHER BY WELDING AND SHEET METAL SCREWS AS NOTED ON THE DRAWINGS.

5. MANUFACTURER PROVIDED PUNCH-OUTS MAY BE LOCATED ALONG THE CENTERLINE OF THE WEBS OF FRAMING MEMBERS. PUNCH-OUTS SHALL HAVE A MINIMUM CENTER-TO-CENTER SPACING OF 24". PUNCH-OUTS SHALL HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2 1/2", WHICHEVER IS LESS, AND A MAXIMUM LENGTH OF 4 1/2". USE UNPUNCHED STUDS IF RESTRICTIONS ON LOCATIONS OF PUNCHOUTS CANNOT BE MET.

6. SPLICES IN STUDS AND BRACES SHALL NOT BE PERMITTED.

7. ALL FRAMING SHALL BE COORDINATED WITH GLAZING MANUFACTURERS, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES.

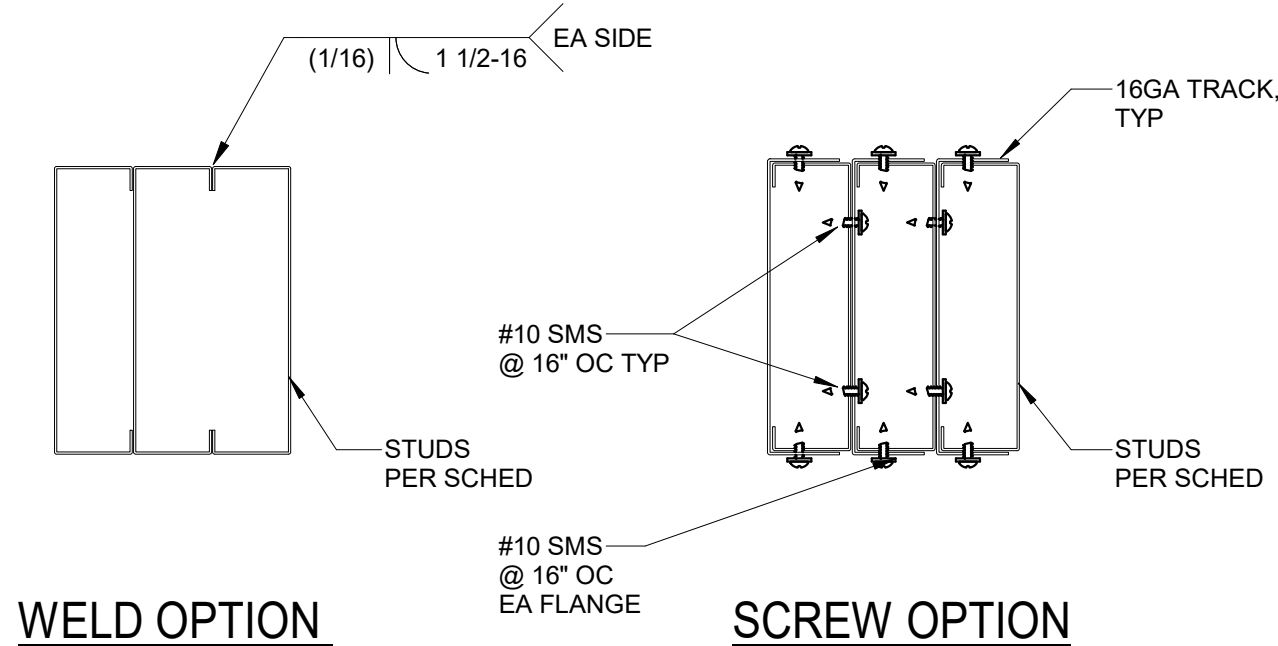
8. PROVIDE 0.08" THICK x 1.1" SQ OR 1.425" ROUND WASHERS FOR ALL POWDER ACTUATED FASTENERS.

9. SEE DETAIL 8/S612 FOR TYPICAL COLD ROLLED CHANNEL (CRC) BRIDGING ATTACHMENTS AND SPLICES. BRIDGING MAY BE OMITTED WHERE GYPSUM WALLBOARD OR LATH OR PLYWOOD IS PROVIDED ON BOTH SIDES OF STUDS AND ATTACHED WITH FASTENERS AT 12" OC MAX ALONG THE FULL HEIGHT OF EACH WALL STUD.

10. SEE GENERAL STRUCTURAL NOTES ON S-001 FOR OTHER INFORMATION.

1 TYP EXT PLATFORM FRAMED METAL STUD WALL FRAMING ELEVATION AND NOTES

NO SCALE



WELD OPTION

SCREW OPTION

JAMB STUD (JS) SCHEDULE				
MAX OPENING "L" OR COMBINED OPENING L1 + L2 AT ADJACENT OPENING	HT < 11'-0"		11'-0" < HT < 18'-0"	
	STUDS	CONN AT TOP TRACK	STUDS	CONN AT TOP TRACK
L ≤ 4'-0"	(2) 600S162-43 OR (1) 600JS250-33*	SL600*	(2) 600S162-43 OR (1) 600JS250-54*	SL600*
4'-0" < L ≤ 8'-0"	(2) 600S162-43 OR (1) 600JS250-33*	SL600*	(3) 600S200-43 OR (1) 600JS350-97*	SL600*
8'-0" < L ≤ 12'-0"	(3) 600S162-43 OR (1) 600JS250-43*	SL600*	(3) 600S162-68	SL600*

NOTE:

- JAMB STUDS DEPTHS SHALL MATCH TYPICAL WALL STUD DEPTHS.
- * DENOTES TSN (THE STEEL NETWORK) JAMB STUDS AND CLIPS.

2 TYP EXTERIOR JAMB STUD SCHED

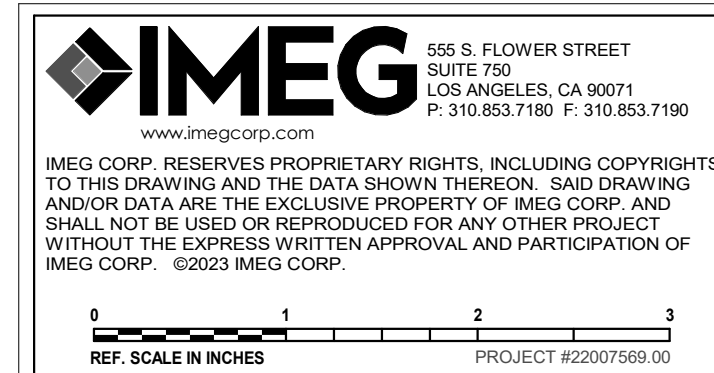
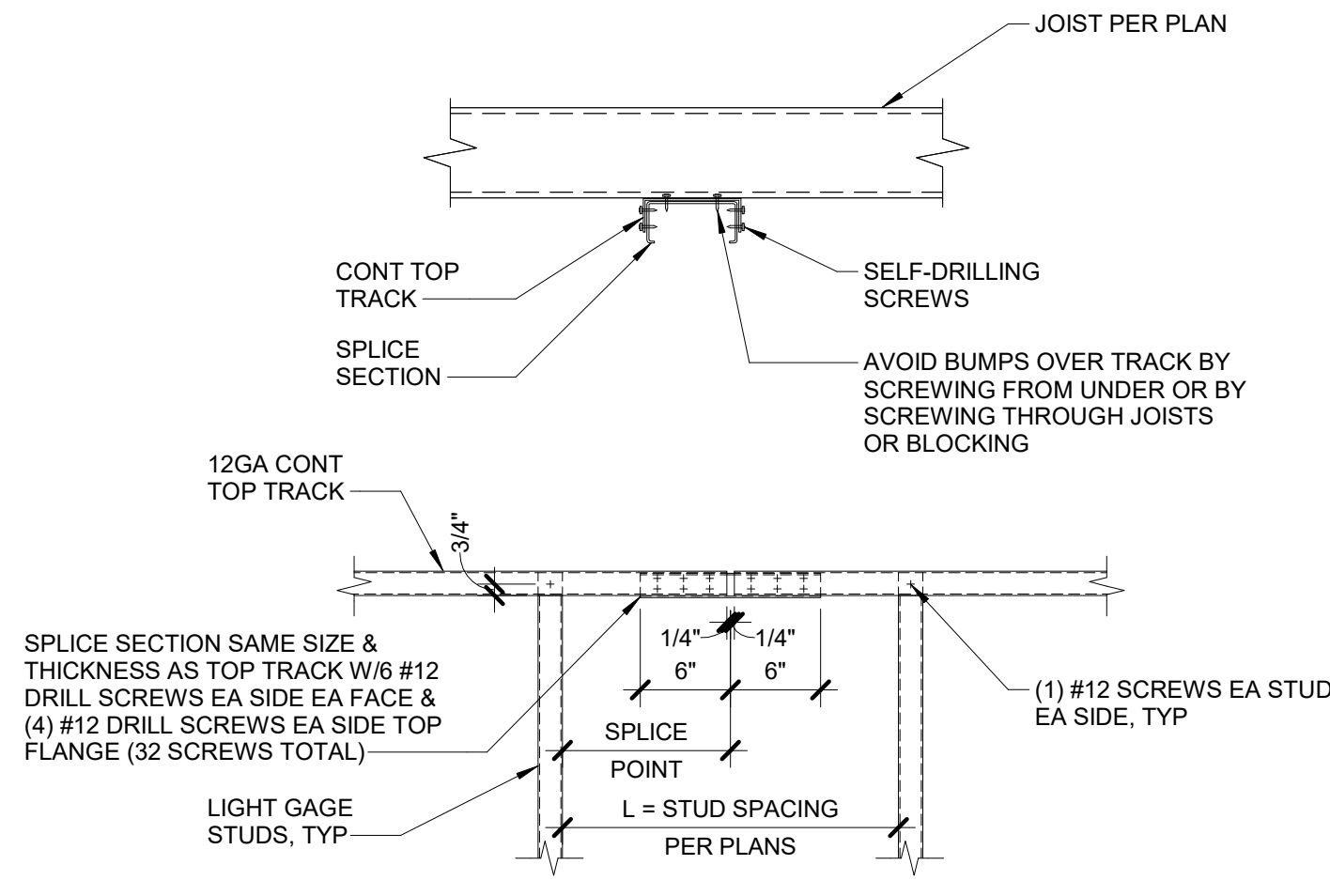
NO SCALE

3 TYPICAL FRAMING ALIGNMENT

NO SCALE

4 TYPICAL TOP TRACK SPLICE

NO SCALE



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Drawn By: HYK
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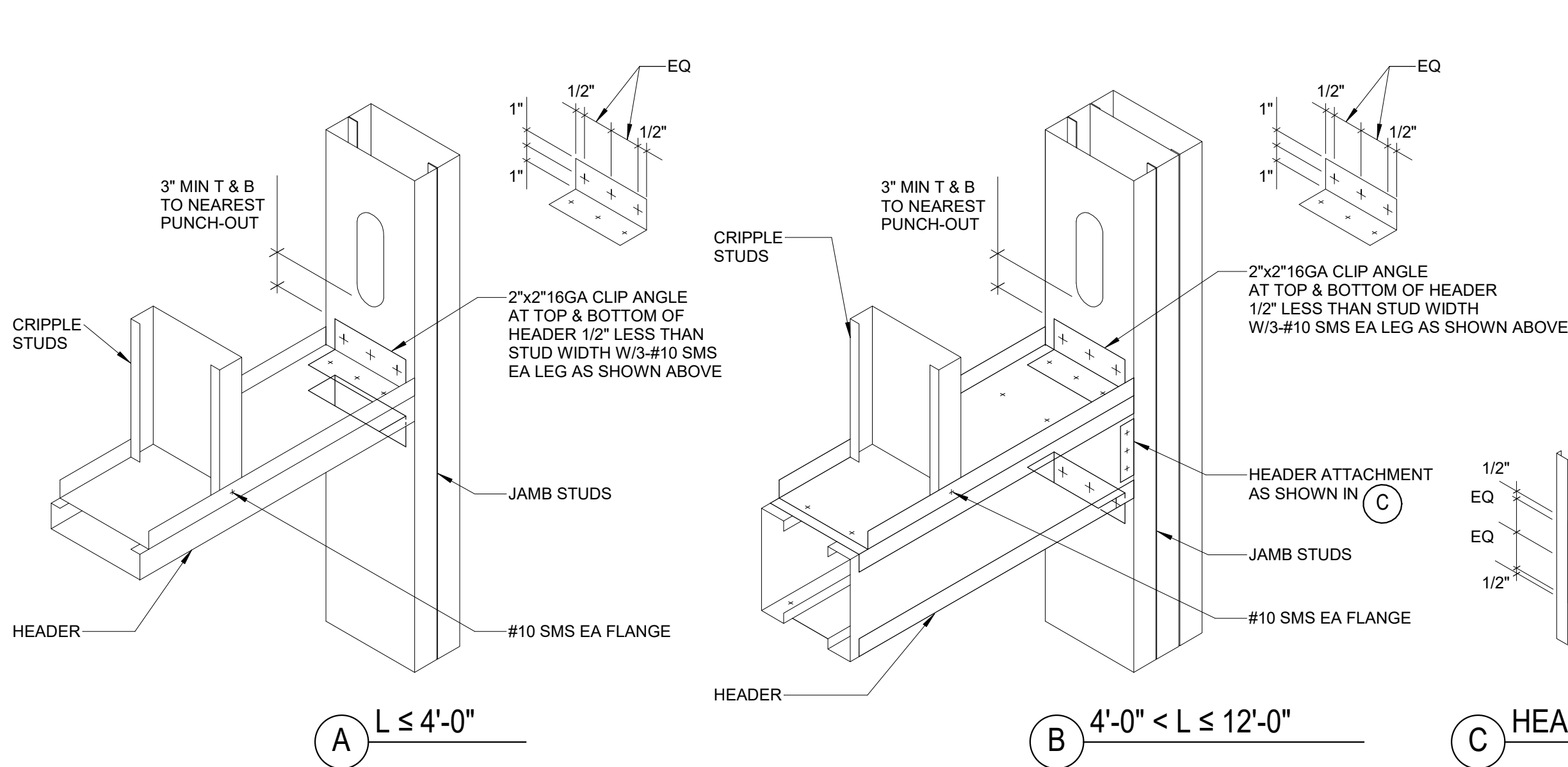
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TYPICAL EXTERIOR METAL STUD DETAILS

SHEET NUMBER

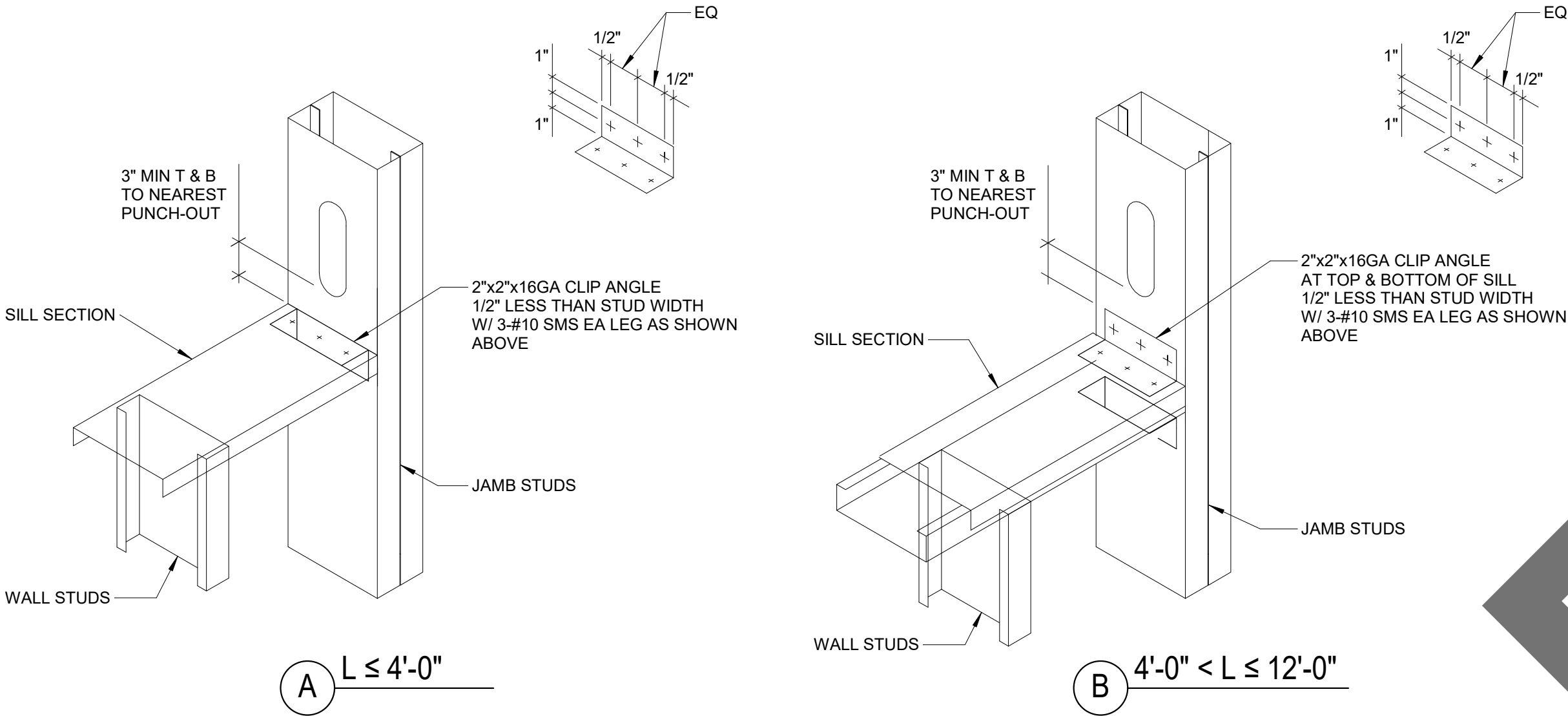
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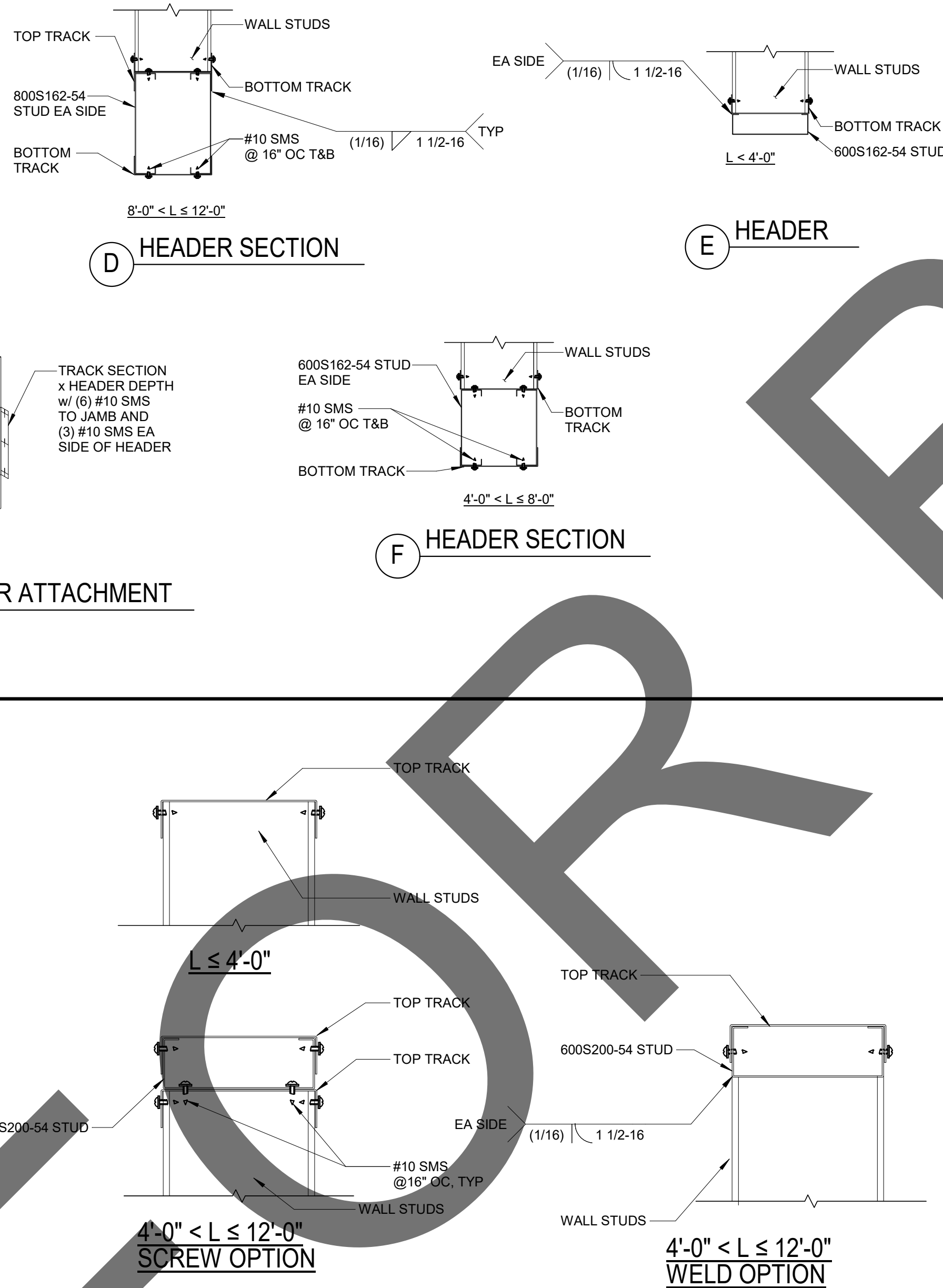
1 TYPICAL EXTERIOR HEADER AND JAMB CONNECTION

1" = 1'-0"



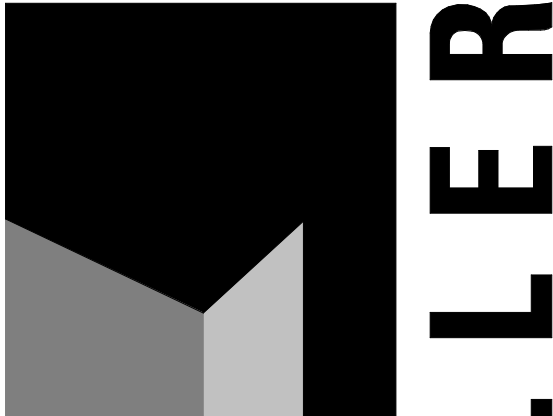
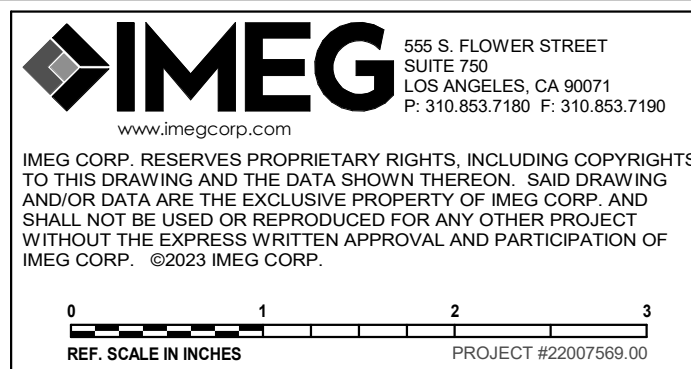
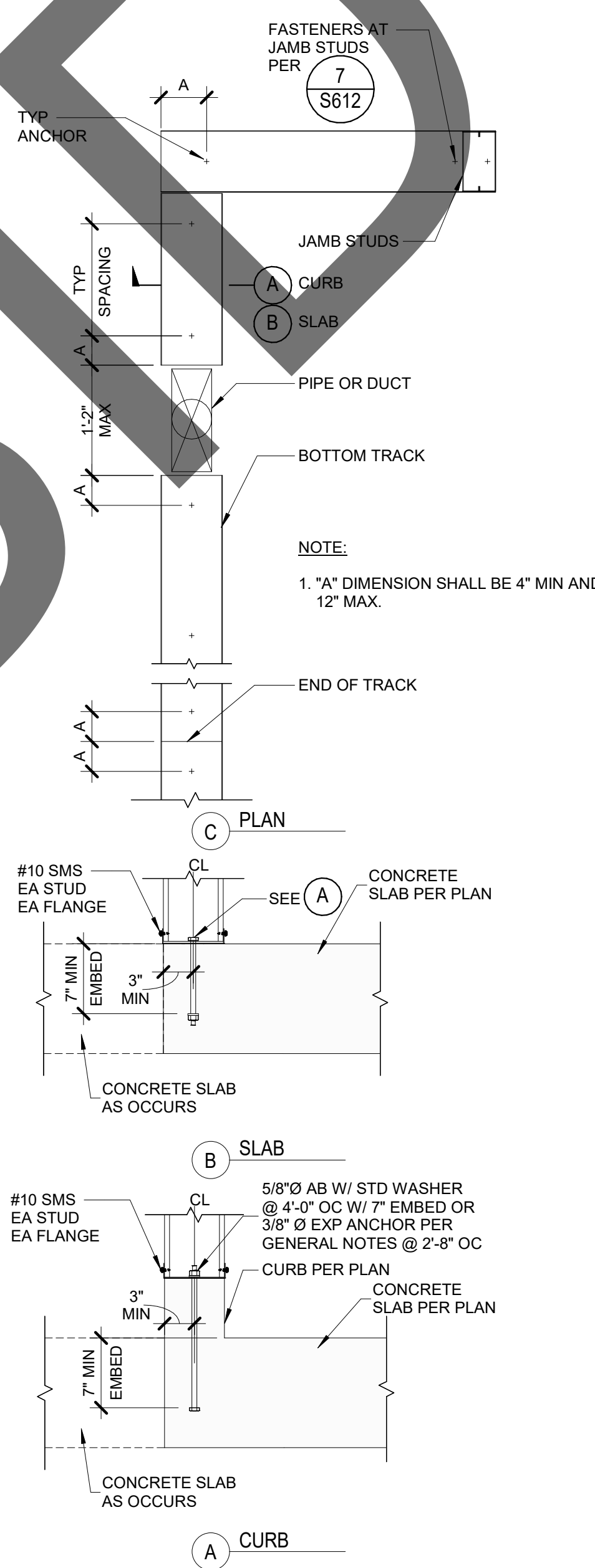
2 TYPICAL EXTERIOR SILL AND JAMB CONNECTION

1" = 1'-0"



3 TYP EXTERIOR BOTTOM TRACK

1" = 1'-0"



architecture
interiors
planning

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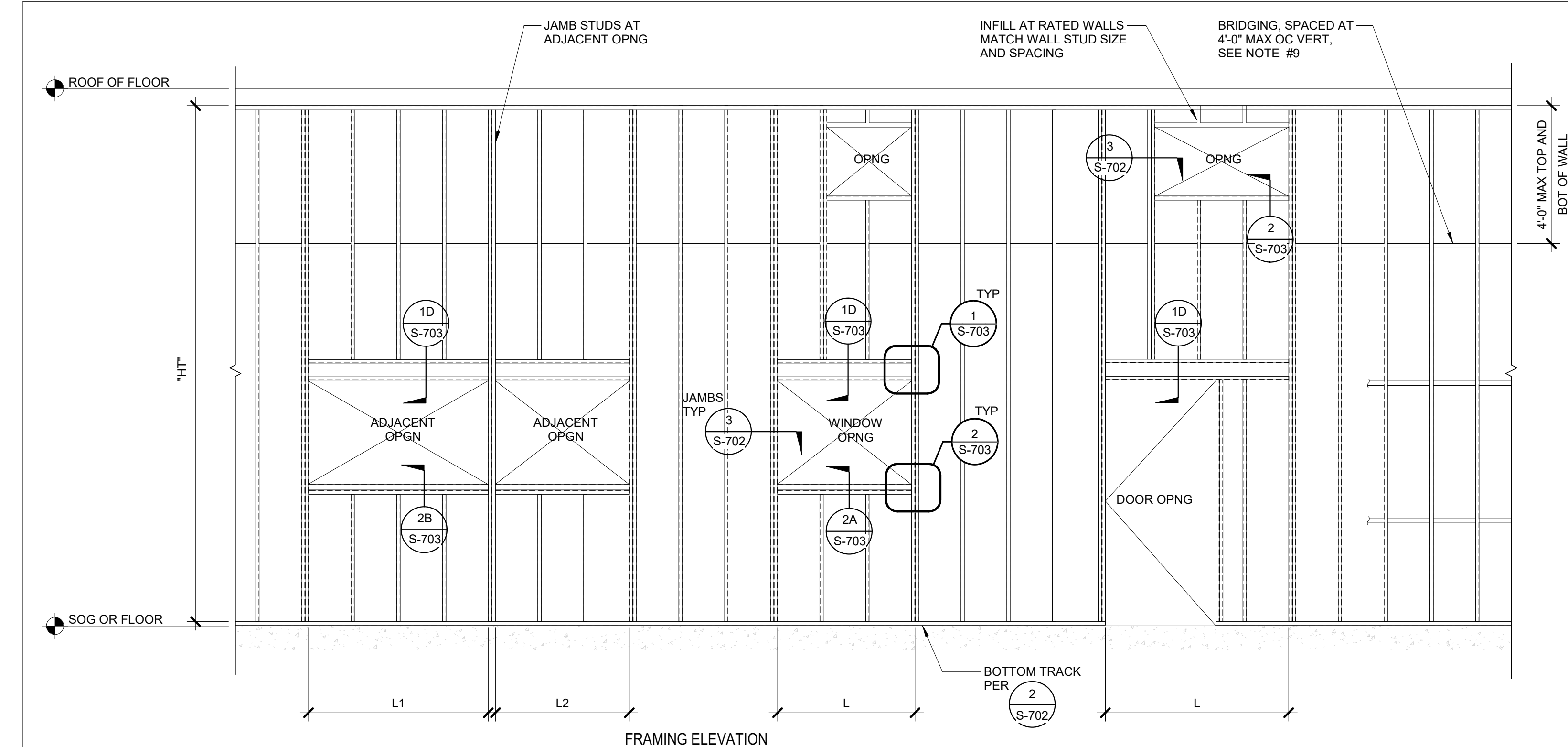
SHEET NAME

TYPICAL
EXTERIOR METAL
STUD DETAILS

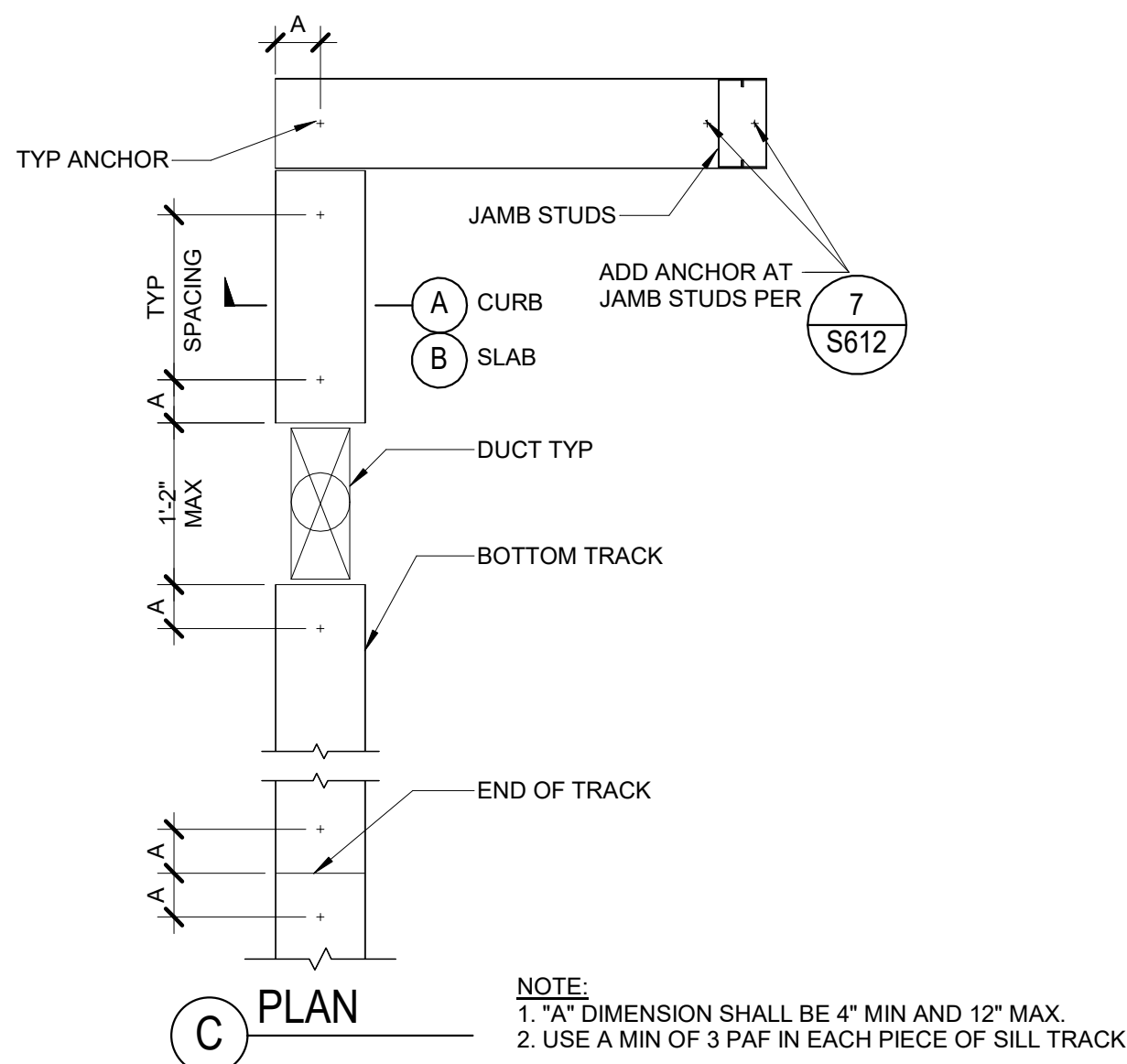
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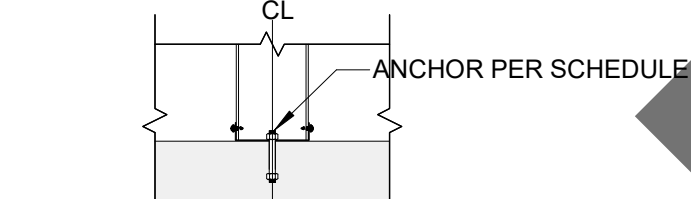
1. TYPICAL INTERIOR TYPICAL METAL STUD WALL FRAMING ELEVATION AND NOTES
NO SCALE



2. TYPICAL INTERIOR BOTTOM TRACK
NO SCALE

INTERIOR BOTTOM TRACK SILL ANCHOR SCHEDULE - NO CURB		
ANCHOR TYPE	SIZE AND SPACING	CONCRETE SLAB
ANCHOR BOLT	3/8"Ø @ 4'-0" OC W/ 3" EMBED	N.A.
EXPANSION ANCHOR	3/8"Ø @ 4'-0" OC	3/8"Ø @ 4'-0" OC W/ 1 3/4" EMBED
SCREW ANCHOR	3/8"Ø @ 4'-0" OC	N.A.
PAF	PAF @ 2'-8" OC W/ 1 1/4" EMBED	PAF @ 2'-8" OC W/ 1" EMBED

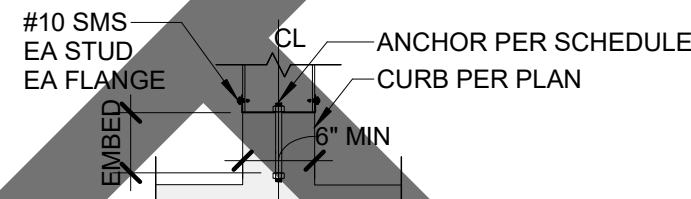
EMBED PER GENERAL NOTES



A. TYPICAL - NO CURB

INTERIOR BOTTOM TRACK SILL ANCHOR SCHEDULE - W/ CURB	
ANCHOR TYPE	SIZE AND SPACING
ANCHOR BOLT	3/8"Ø @ 2'-8" OC W/ 5" EMBED
EXPANSION ANCHOR	3/8"Ø HILTI KB-TZ @ 2'-8" OC
SCREW ANCHOR	3/8"Ø @ 2'-8" OC

EMBED PER GENERAL NOTES



B. CURB

1. PROVIDE STUDS, TRACKS AND BRACING PER SCHEDULE BELOW:

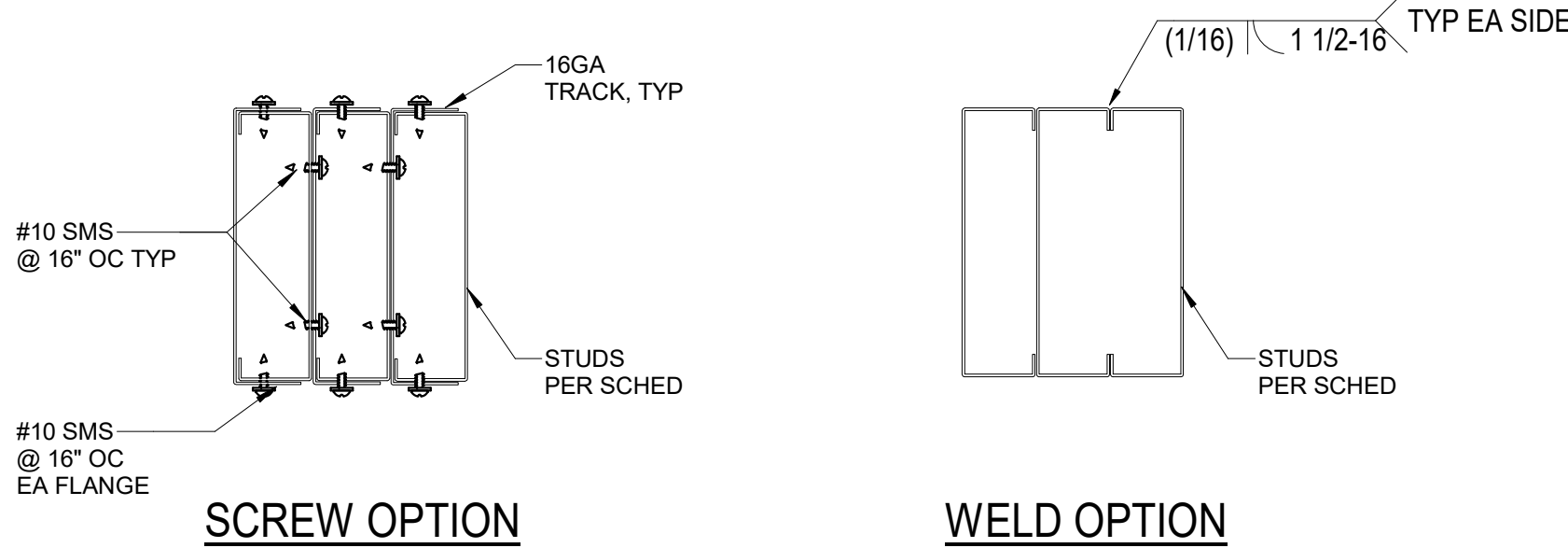
NON-LOAD BEARING INTERIOR METAL STUD WALL SCHEDULE						
REF: STEEL STUD MANUFACTURER'S ASSOCIATION (ER-4943P)						
MAX. HEIGHT "H"	NOMINAL SIZE	SSMA PRODUCT IDENTIFICATION	SPACING (INCHES)	MINIMUM PROPERTIES		
				Ix in ⁴	Sx in ³	Ma in-k
STUDS						
17'-3"	4" x 20GA	400S125-33	16	0.523	0.231	4.56
18'-9"	4" x 18GA	400S125-43	16	0.676	0.327	6.46
20'-1"	4" x 16GA	400S125-54	16	0.828	0.391	11.71
FOR SILLS	4" x 14GA	400S125-68	-	1.015	0.498	14.91
23'-11"	6" x 20GA	600S125-33	16	1.391	0.408	8.06
26'-0"	6" x 18GA	600S125-43	16	1.602	0.534	11.55
27'-11"	6" x 16GA	600S125-54	16	2.218	0.706	21.14
FOR SILLS	6" x 14GA	600S125-68	-	2.735	0.898	26.88
TRACKS						
BOTTOM TRACK	4" x 16GA	400T125-54	-	0.849	0.359	10.74
TOP TRACK	4" x 16GA	400T150-54	-	0.918	0.374	11.19
CAPPING TRACK	4" x 16GA	400T200-54	-	1.037	0.397	11.88
BOTTOM TRACK	6" x 16GA	600T125-54	-	2.221	0.654	19.55
TOP TRACK	6" x 16GA	600T150-54	-	2.374	0.678	20.30
CAPPING TRACK	6" x 16GA	600T200-54	-	2.641	0.717	21.48

<u>LOAD BEARING INTERIOR METAL STUD WALL SCHEDULE</u>						
REF: STEEL STUD MANUFACTURER'S ASSOCIATION (ER-4943P)						
MAX. WALL HEIGHT "H"	NOMINAL STUD SIZE	SSMA PRODUCT IDENTIFICATION	STUD SPACING	MINIMUM PROPERTIES		
				Ix in ⁴	Sx in ³	Ma in-k
STUDS						
12'-6"	6"x1 3/8"x18GA	600S137-43	16" OC	2.042	0.681	11.82
15'-0"	6"x1 3/8"x18GA	600S137-43	16" OC	2.042	0.681	11.82
18'-0"	6"x1 5/8"x18GA	600S162-43	16" OC	2.316	0.772	14.46
25'-0"	6"x1 5/8"x16GA	600S162-54	16" OC	2.860	0.953	25.90

JAMB STUD SCHEDULE	
MAX ALLOWABLE OPENING WIDTH L OR COMBINED OPENING WIDTH L1 + L2 AT ADJACENT OPENING	STUDS
11'-0"	2-16GA STUDS
18'-0"	3-16GA STUDS

NOTE:

1. JAMB STUDS DEPTHS SHALL MATCH TYPICAL WALL STUD DEPTHS.



3. TYPICAL INTERIOR JAMBS
NO SCALE

2. ALL STUDS AND TRACKS SHALL CONFORM TO ASTM A653, A1008 OR A1011.
- a. MINIMUM YIELD POINT OF 50 KSI
- b. ALL STUDS AND TRACKS SHALL BE MANUFACTURED BY CURRENT MEMBERS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) LISTED IN ICC REPORT NO. ER-4943P. ALL STUDS AND TRACKS SHALL COMPLY WITH ICC REPORT NO. ER-4943P.
3. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY OR ON AN ANGLE (SUCH AS BRACING) TO SQUARELY FIT AGAINST ABUTTING MEMBERS. MEMBERS SHALL BE HELD FIRMLY IN POSITION UNTIL PROPERLY FASTENED.
4. STUDS AND TRACKS SHALL BE JOINED TOGETHER BY WELDING AND SHEET METAL SCREWS AS NOTED ON THE DRAWINGS.
5. MANUFACTURER PROVIDED PUNCH-OUTS MAY BE LOCATED ALONG THE CENTERLINE OF THE WEBS OF FRAMING MEMBERS. PUNCH-OUTS SHALL HAVE A MINIMUM CENTER-TO-CENTER SPACING OF 24". PUNCH-OUTS SHALL HAVE A MAXIMUM WIDTH OF HALF THE MEMBER DEPTH OR 2 1/2", WHICHEVER IS LESS, AND A MAXIMUM LENGTH OF 4 1/2". SEE DETAIL 10/S9-300 FOR REQUIREMENTS WHEN HOLES ARE ADDED IN THE STUD WEB. USE UNPUNCHED STUDS IF RESTRICTIONS ON LOCATIONS OF PUNCH-OUTS CANNOT BE MET.
6. SPLICE IN STUDS AND BRACES SHALL NOT BE PERMITTED.
7. ALL FRAMING SHALL BE COORDINATED WITH GLAZING MANUFACTURER, MECHANICAL, ELECTRICAL, PLUMBING AND OTHER TRADES.
8. PROVIDE 0.08" THICK x 1 1/4" SQ OR 1.425" ROUND WASHERS FOR ALL POWDER ACTUATED FASTENERS.
9. SEE DETAIL 8/S612 FOR TYPICAL COLD ROLLED CHANNEL (CRC) BRIDGING ATTACHMENTS AND SPLICES. BRIDGING MAY BE OMITTED WHERE GYPSUM WALLBOARD OR LATH OR PLYWOOD IS PROVIDED ON BOTH SIDES OF STUDS AND ATTACHED WITH FASTENERS AT 12" OC MAX ALONG THE FULL HEIGHT OF EACH WALL STUD.
10. SEE GENERAL STRUCTURAL NOTES ON S-001 FOR OTHER INFORMATION.



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owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	06/12/24	PLAN CHECK RESUBMITTAL

ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8868

PROJECT INFORMATION

Project Number:	22007569.00
Drawn By:	HYK
Checked By:	JP
Issue Date:	06/12/2024

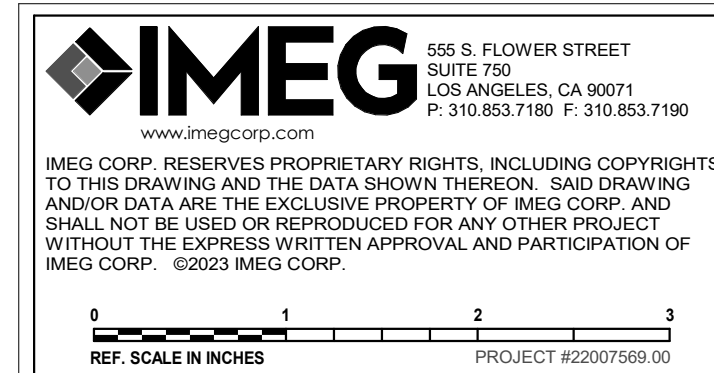
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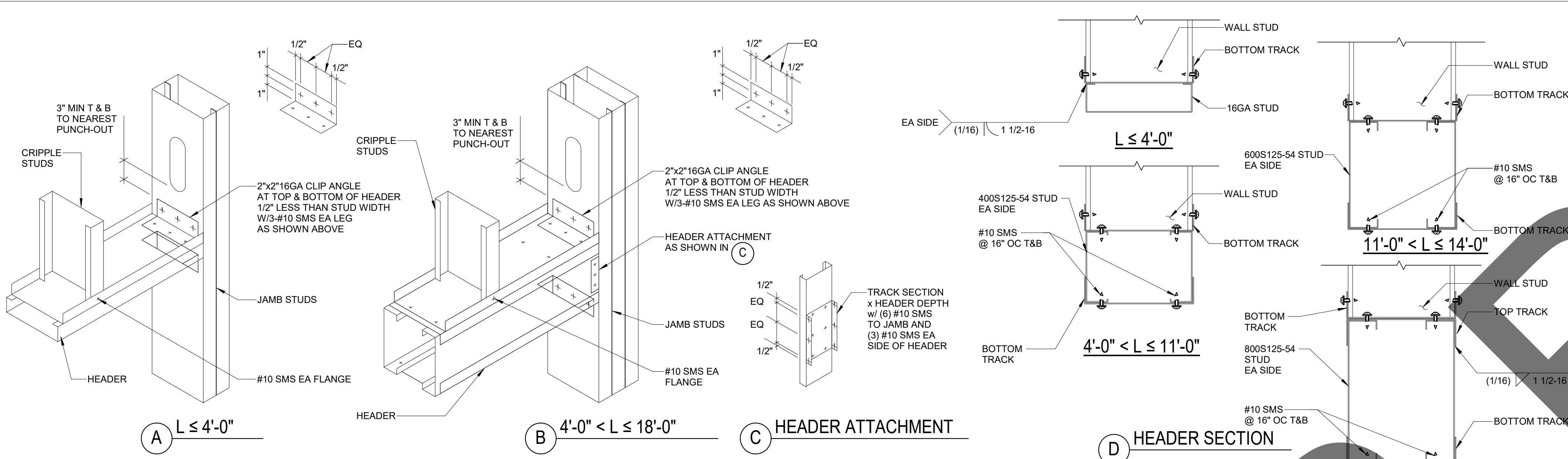
TYPICAL
INTERIOR METAL
STUD DETAILS

SHEET NUMBER

S-702

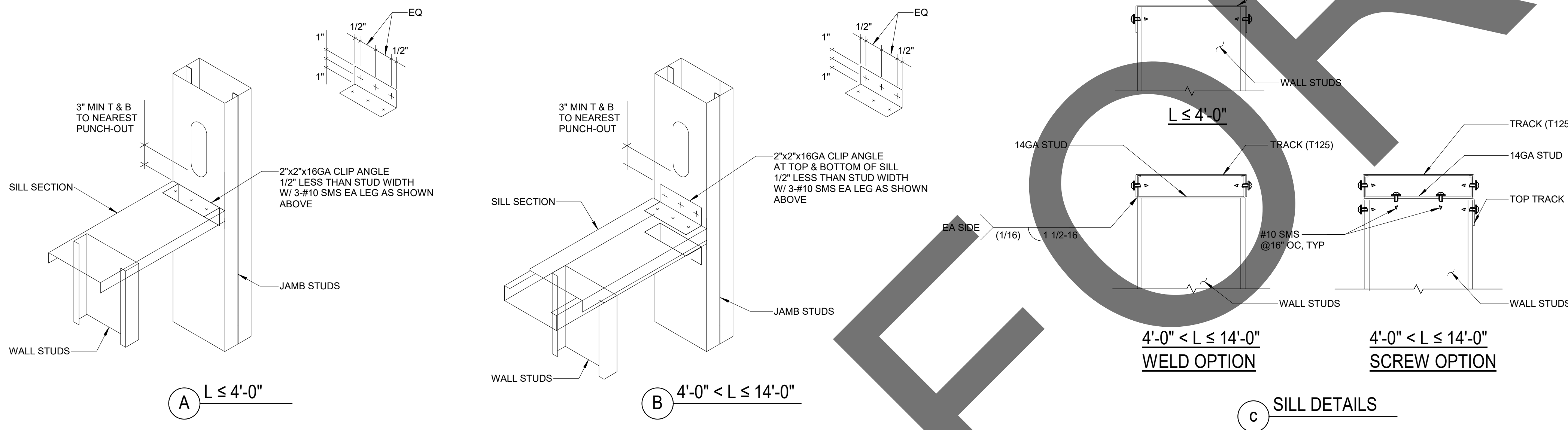
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1 TYPICAL INTERIOR HEADER AND JAMB CONNECTION

1" = 1'-0"



2 TYPICAL INTERIOR SILL AND JAMB CONNECTION

1" = 1'-0"

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REF. SCALE IN INCHES
0 1 2 3
PROJECT #22007569.00



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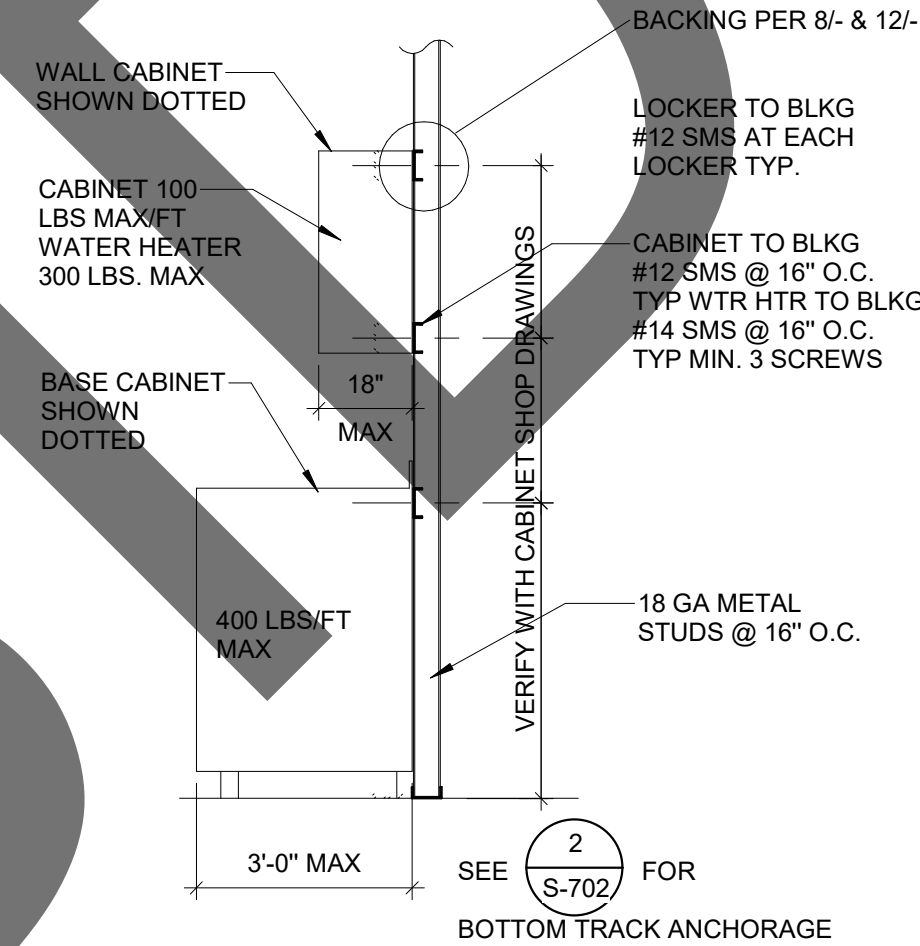
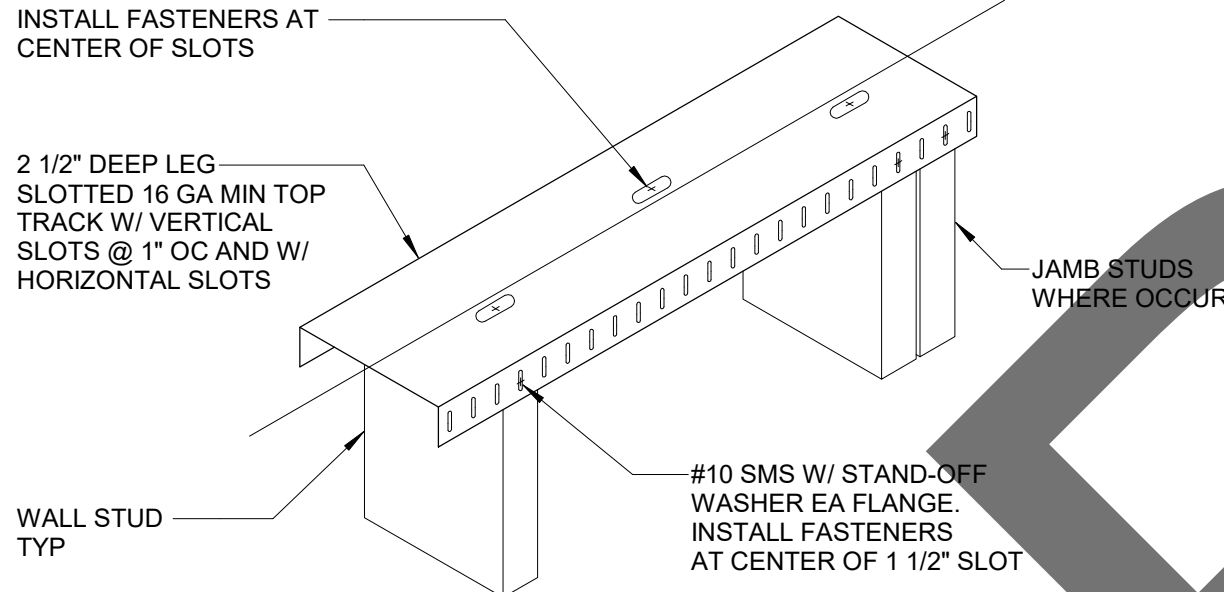
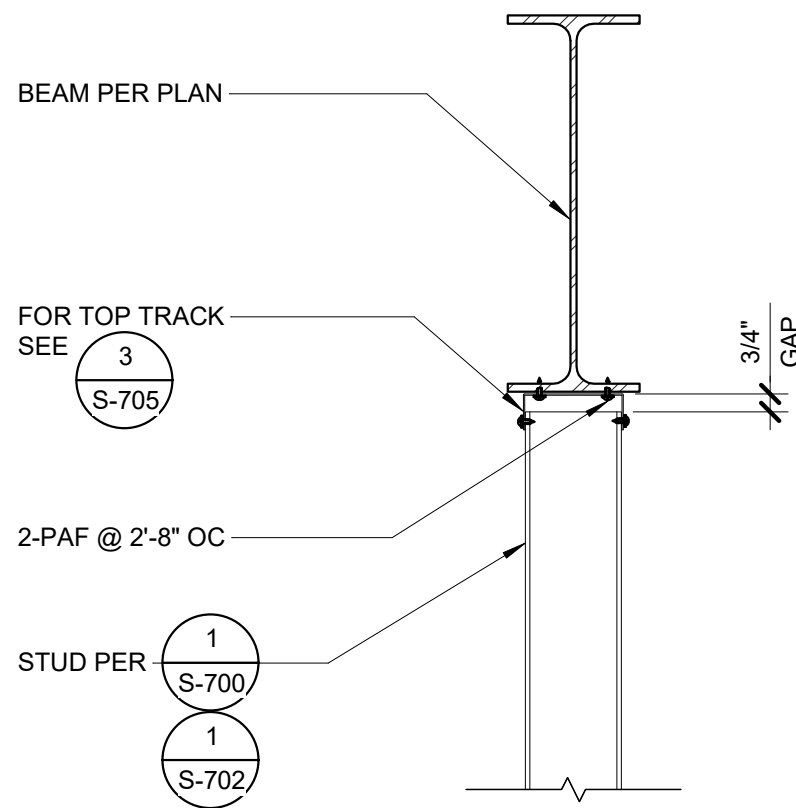
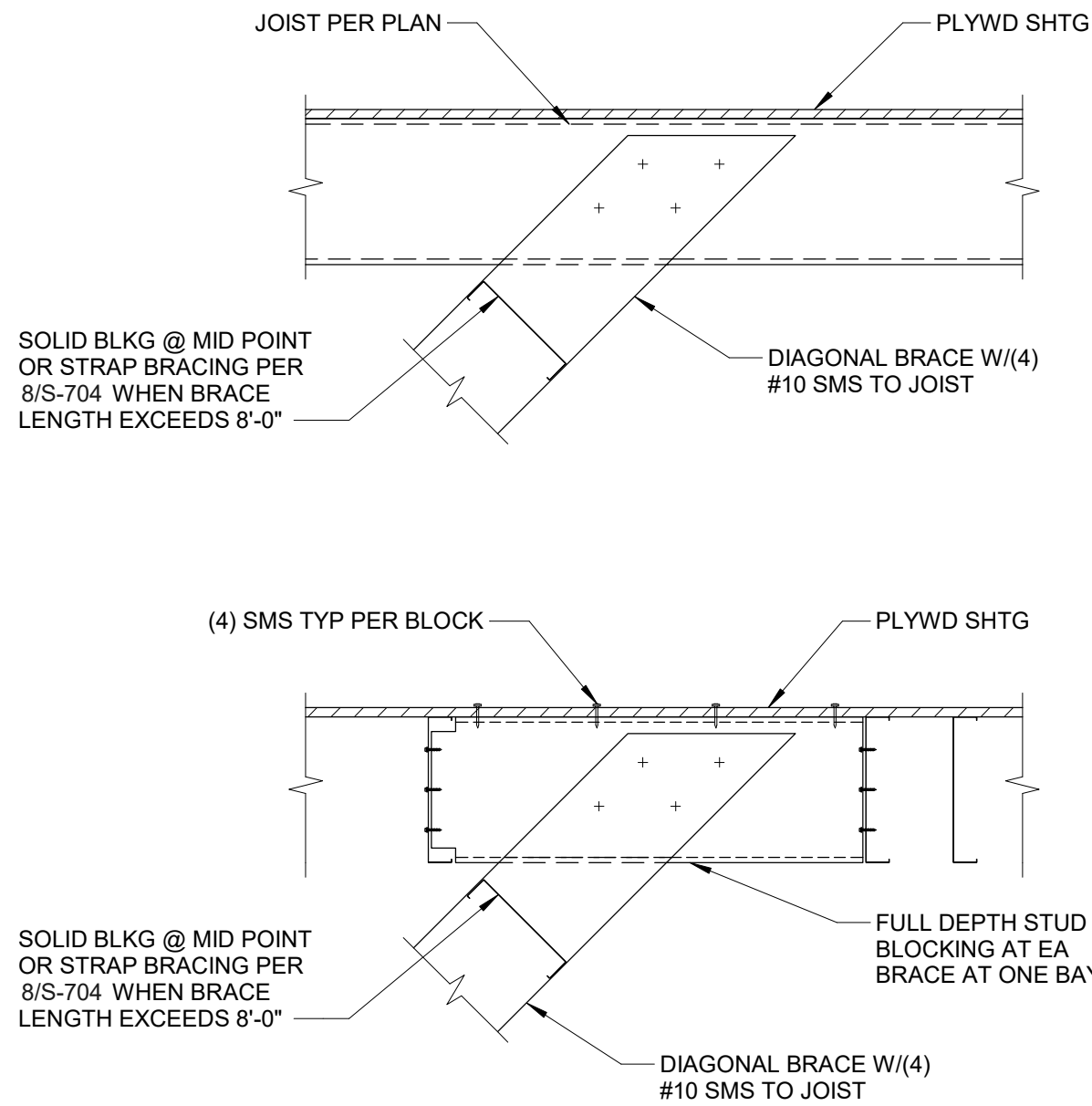
SHEET NAME

TYPICAL
INTERIOR METAL
STUD DETAILS

SHEET NUMBER

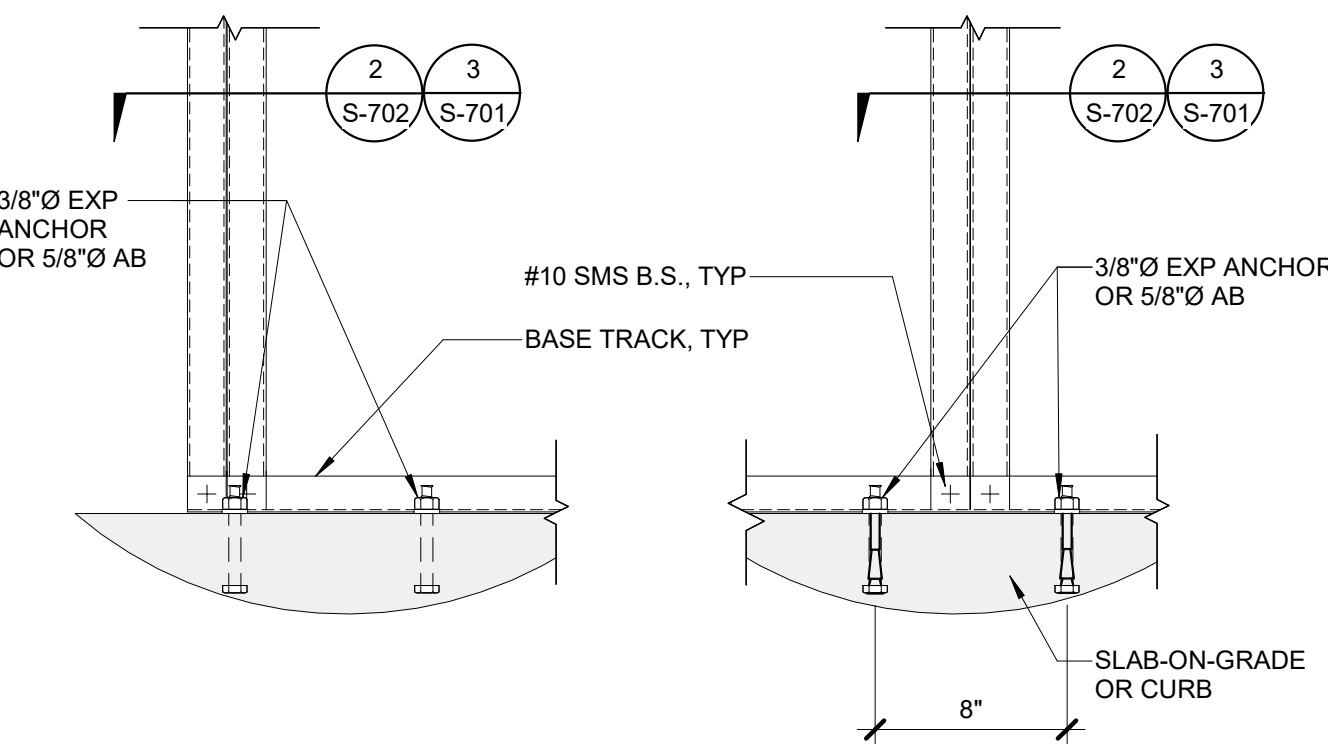
S-703

Sheet Of Sheets



1 WALL BRACING SCHEDULE

1" = 1'-0"



A AT DOOR

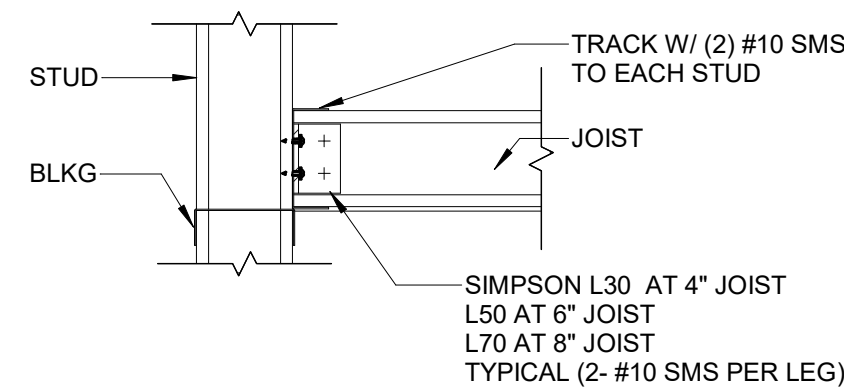
B AT WINDOW

NOTES:

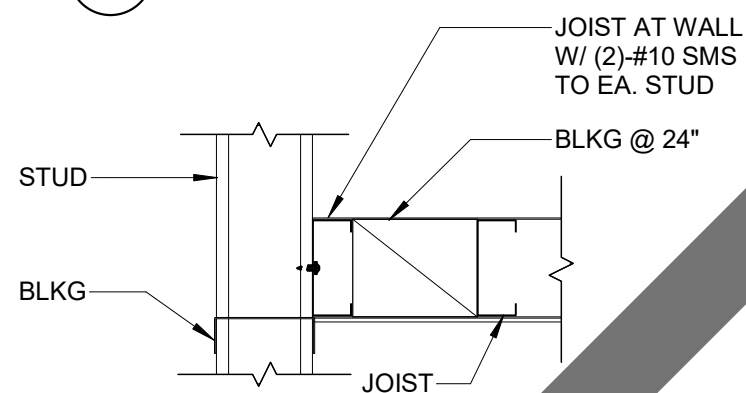
1. AT WALL ON CURB, CAN USE 5/8"Ø AB PER (2) S-702

2 TOP TRACK AT WALL UNDER BEAM

1 1/2" = 1'-0"



A JOIST TO WALL



B JOIST PARALLEL TO WALL

3 INTERIOR TOP TRACK

1" = 1'-0"

TOP TRACK BRACING SCHEDULE

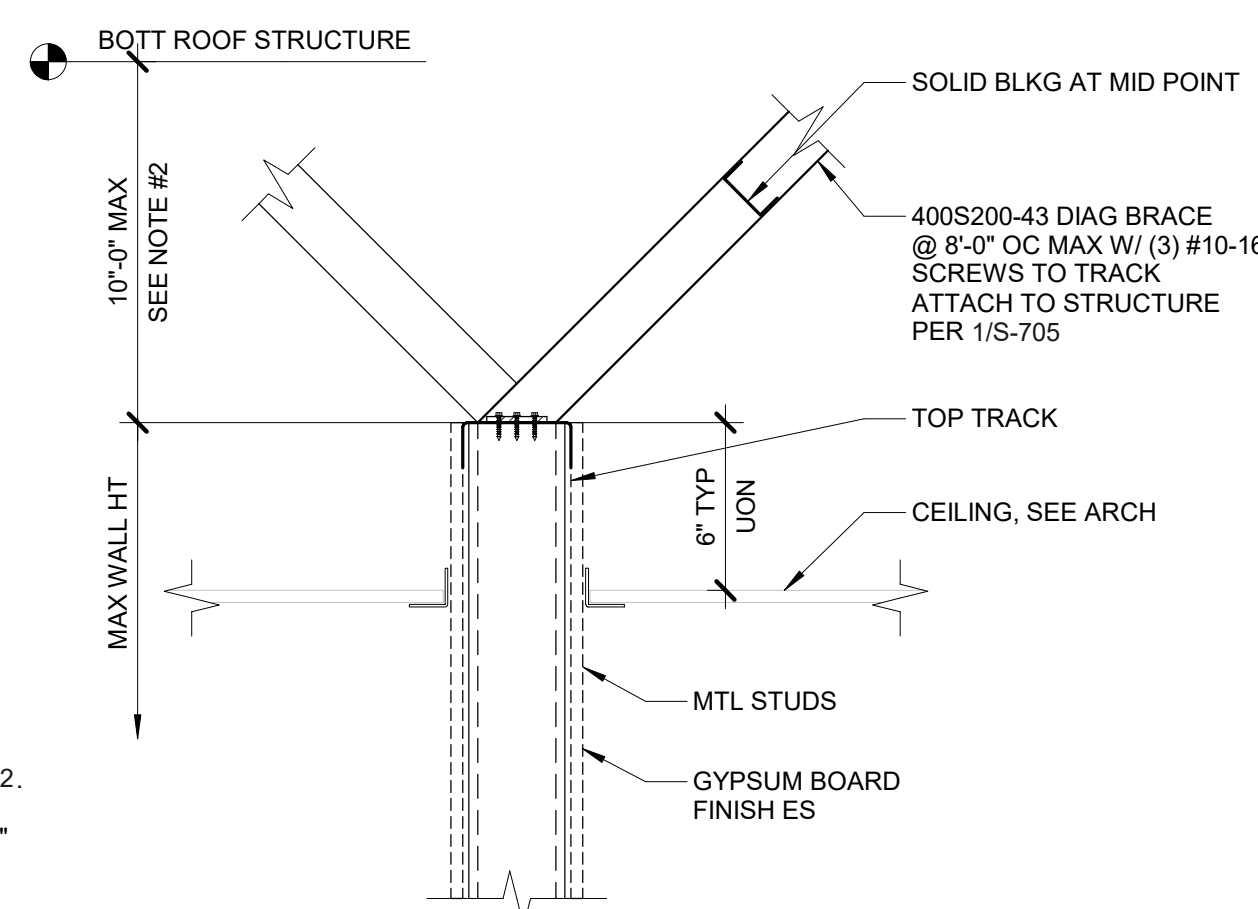
MAX WALL HT	MINIMUM STUD SIZE DESIGNATION (1)	MAXIMUM STUD SPACING (OC)	TOP TRACK DESIGNATION	
			BRACE ES / WALL (3)	BRACE ONE SIDE (4)
8'-0"	400S125-33	24"	400T125-33	400T125-43
10'-0"	400S125-33	24"	400T125-33	400T125-43
12'-0"	400S125-33	24"	400T125-33	400T125-43
14'-0"	600S125-33	24"	600T125-33	600T125-43
	400S125-33	24"	400T125-33	400T125-43

NOTES:

1. DEPTH OF STUDS SHALL BE AS INDICATED ON ARCH DRAWINGS AND PER DETAIL 1/S-702.
2. IN CASE HEIGHT BETWEEN TOP TRACK AND BOTTOM/ROOF STRUCTURE EXCEEDS 10'-0" CONTACT ENGINEER FOR RECOMMENDATION.
3. SPACE DIAGONAL BRACES @ 4'-0" OC STAGGERED ON EA. SIDE OF WALL, TYP.
4. USE BRACES @ 8'-0" OC ON ONE SIDE ONLY WHERE IS SHOWN ON ARCH DRAWINGS.

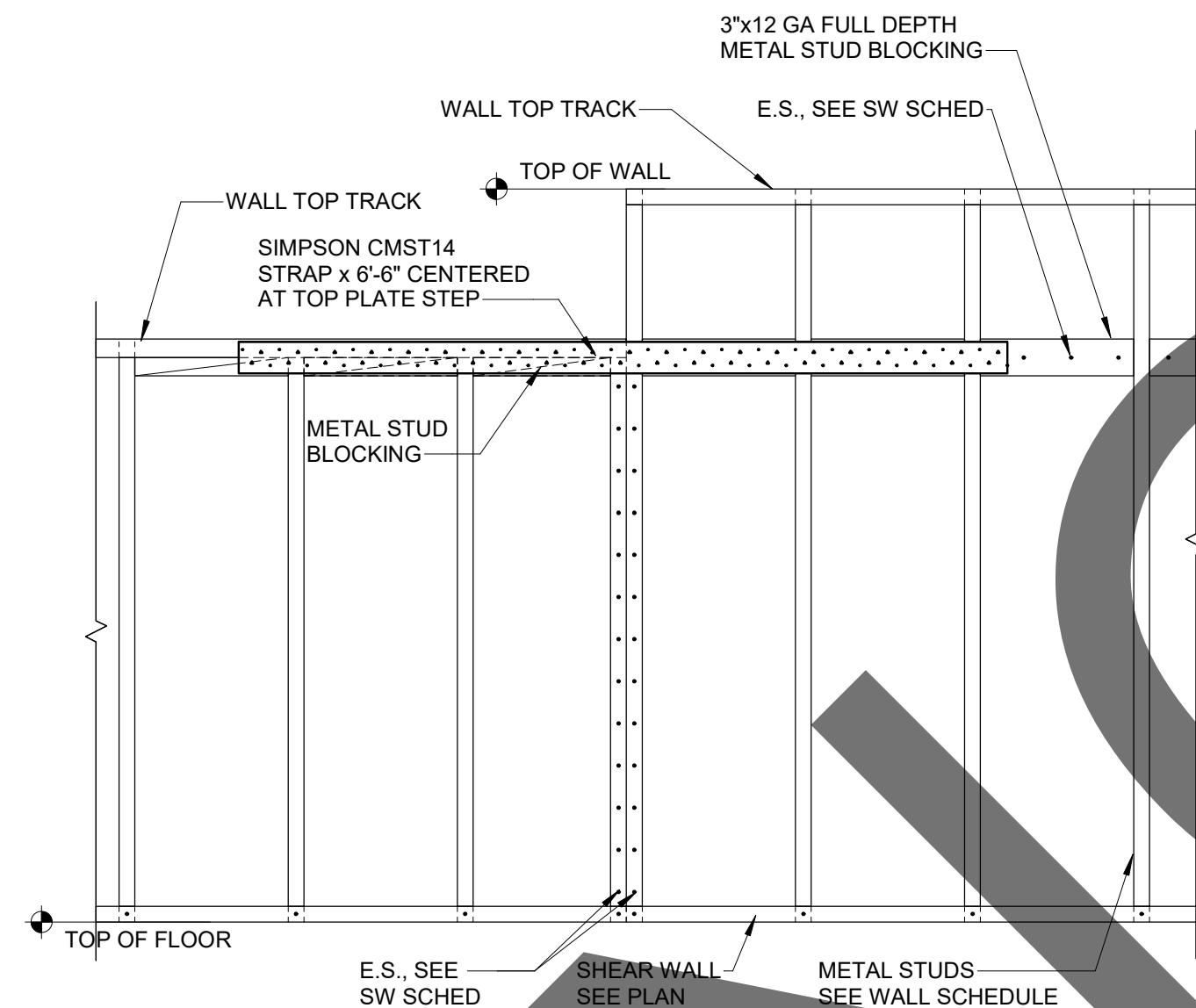
4 TYPICAL CABINET BACKING

3/4" = 1'-0"



5 TYPICAL JAMB BASE CONNECTION

1 1/2" = 1'-0"



8 TYP STEP IN SHEARWALL TOP PLATE

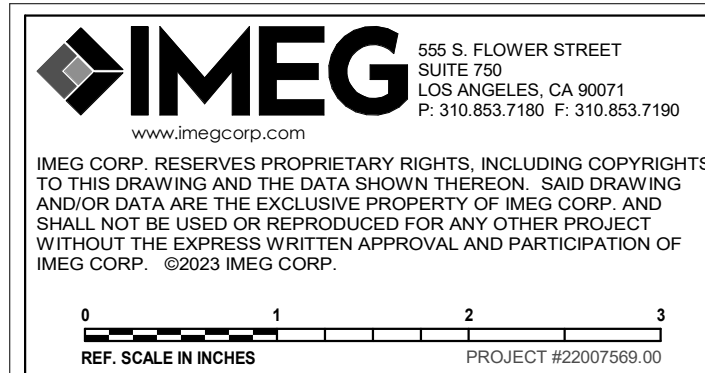
NO SCALE

6 TYP CEILING FRAMING CONNECTIONS

1 1/2" = 1'-0"

7 WALL BRACING SCHEDULE

1 1/2" = 1'-0"



architecture
interiors
planning

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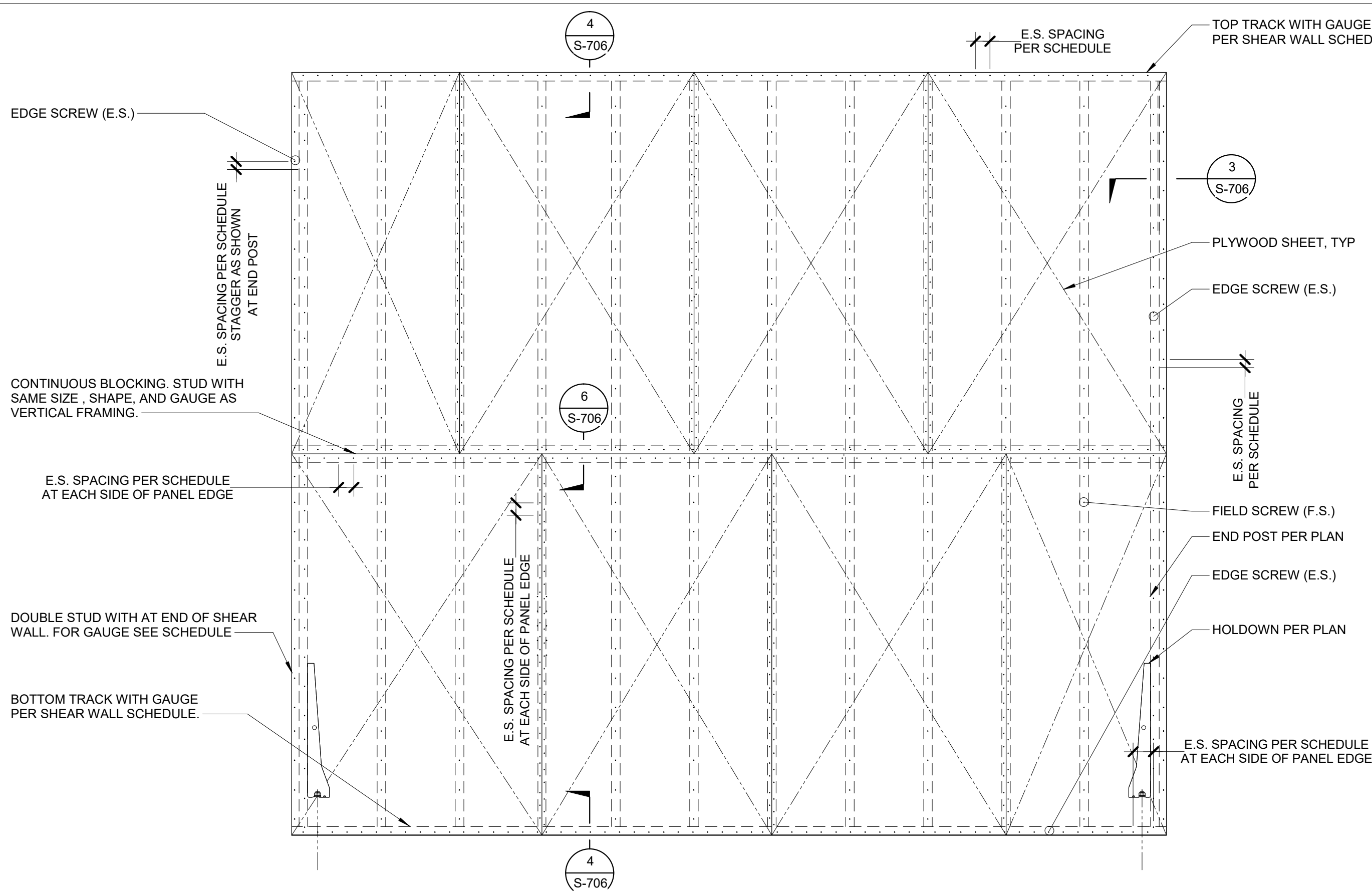
SHEET NAME

TYPICAL METAL
STUD DETAILS

SHEET NUMBER

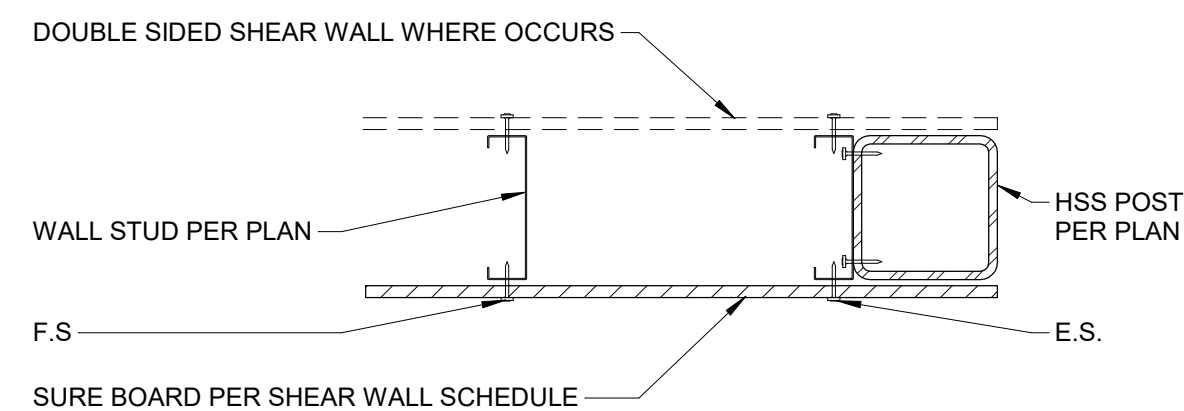
S-705

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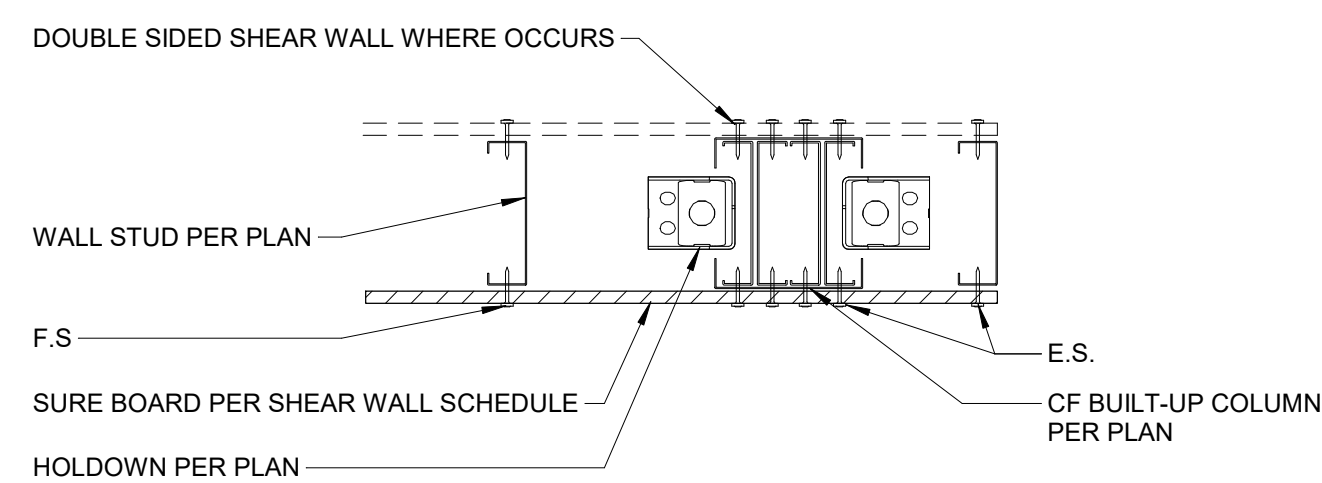


1 PLYWOOD SHEAR WALL - TYPICAL ELEVATION

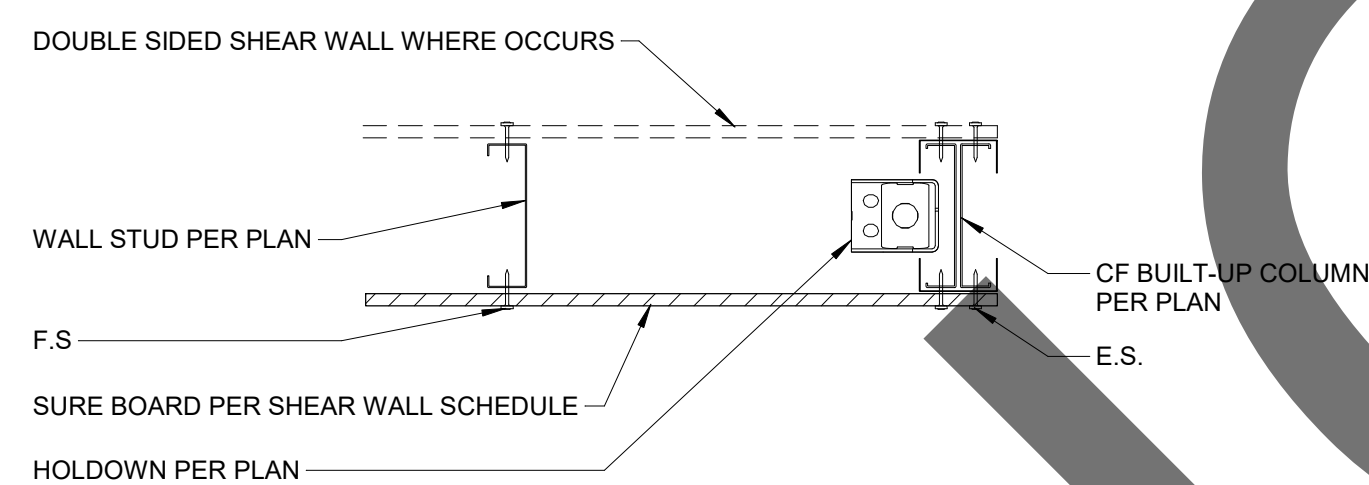
NO SCALE



C. WHERE HSS IS PRESENT



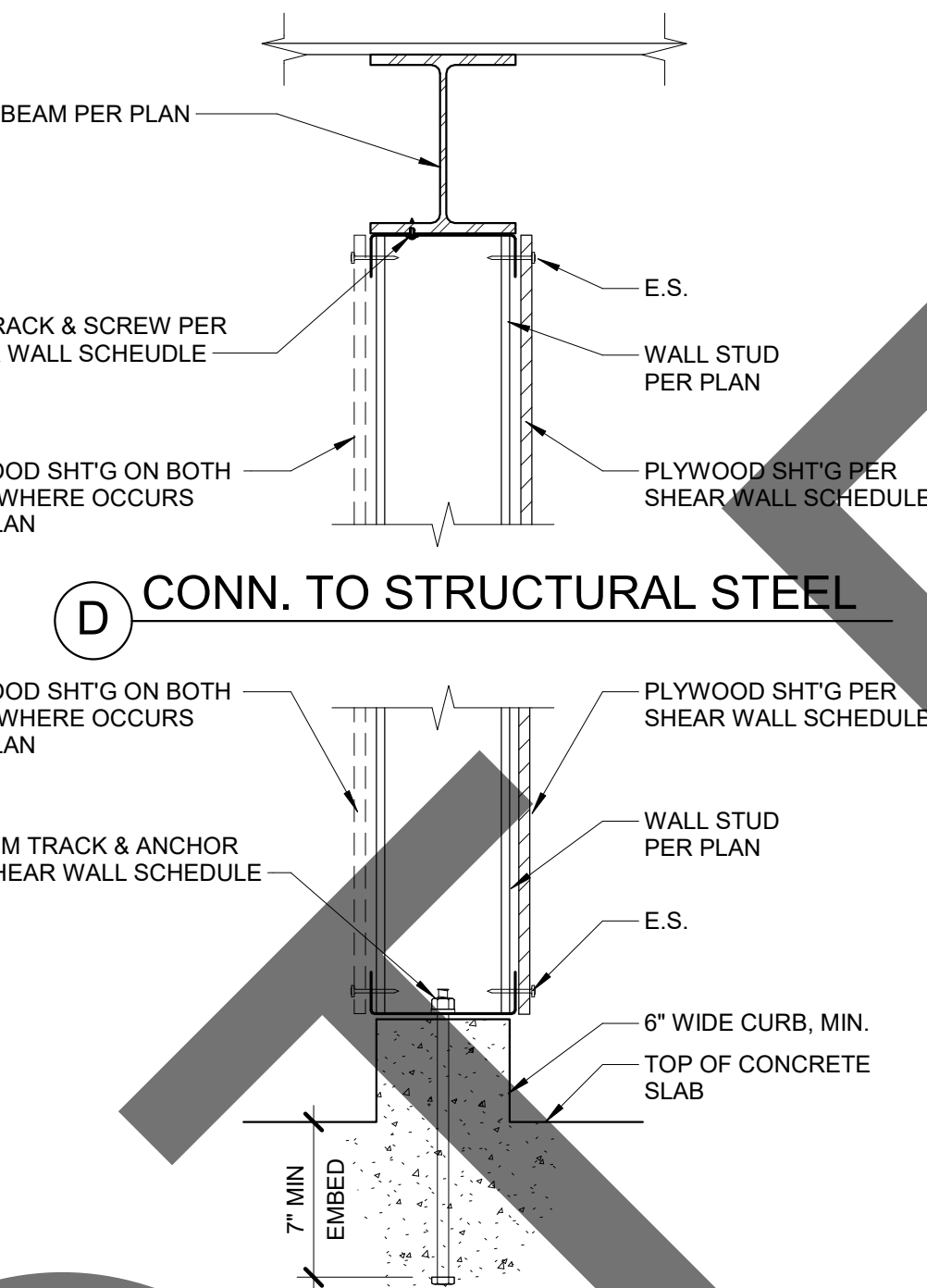
B. DOUBLE HOLDDOWN AT BUILD-UP COLUMN



A. SINGLE HOLDDOWN AT BUILD-UP COLUMN

3 CONN. @ SHEAR WALL END POST

NO SCALE

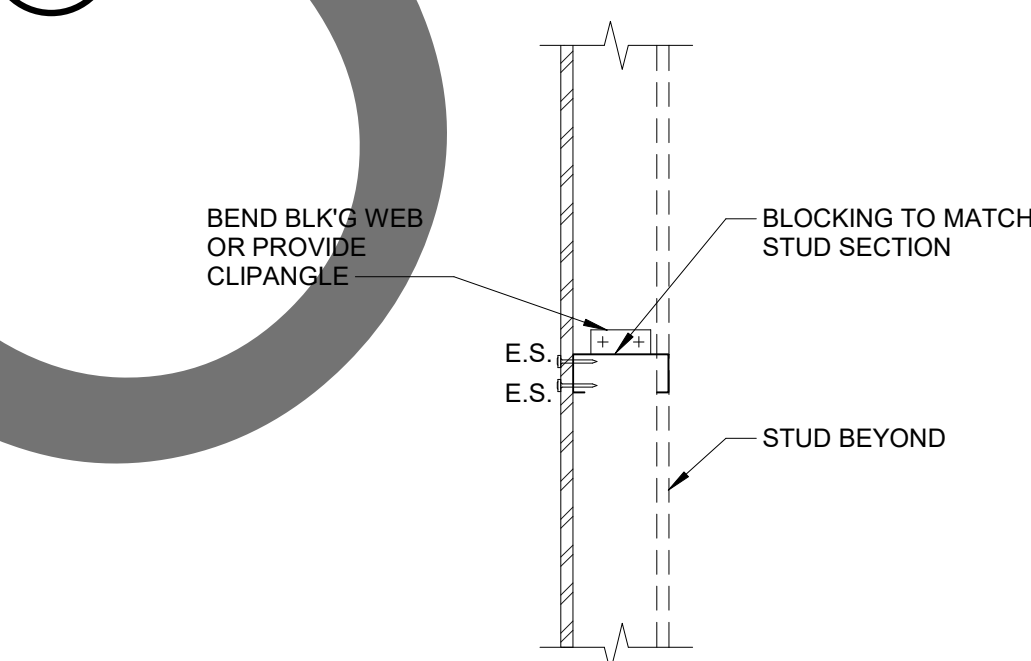


D. CONN. TO STRUCTURAL STEEL

B. CONN. TO CONCRETE CURB

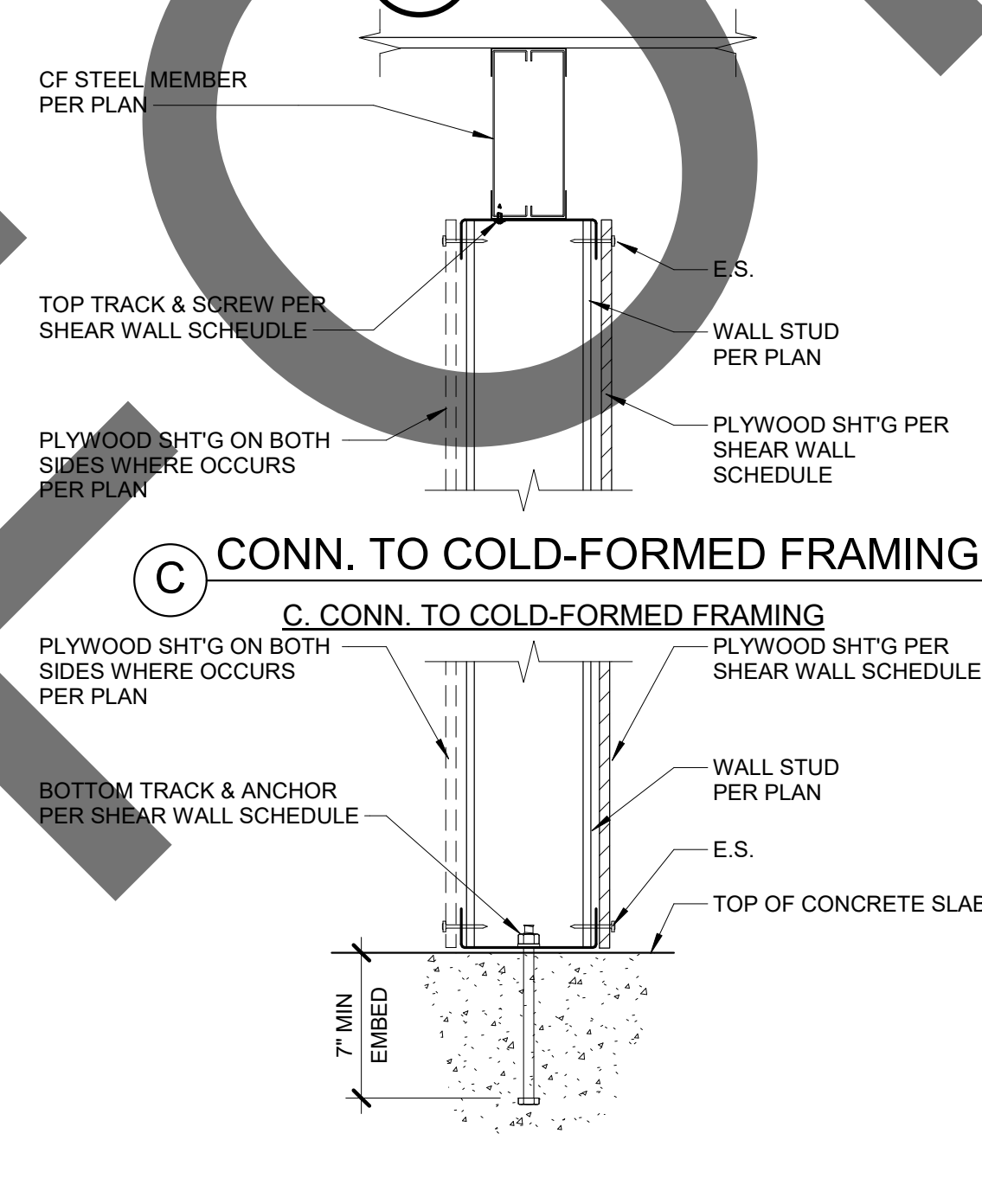
4 TOP & BOTTOM SHEAR WALL TRACK ATTACHMENT

NO SCALE



6 BLOCK PANEL

NO SCALE



C. CONN. TO COLD-FORMED FRAMING

A. CONN. TO CONCRETE CURB

5 HOLDOWN SCHEDULE AND NOTES

NO SCALE

MARK (PER PLAN)	GRADE 36 ROD DIAM. "Da"	PL WASHER		HOLDDOWN (1)	FASTENER	MIN POST THICKNESS (2)	CAPACITY
		T (IN)	SIDE (IN)				
H4	5/8"	3/8	1 1/2	S/HDU4	6-#14 SMS	(2)-18GA	3825 LBS
H6	5/8"	3/8	1 1/2	S/HDU6	12-#14 SMS	(2)-18GA	6125 LBS
H9	7/8"	3/8	1 1/2	S/HDU9	18-#14 SMS	(2)-18GA	9255 LBS
H11	7/8"	3/8	2	S/HDU11	27-#14 SMS	(2)-18GA	12175 LBS

NOTES:

- HDU SCREW-STYLE HOLDDOWNS ARE PER LARR #25489, IAPMO ESR 124.
- POST THICKNESSES SHOWN ON THE SCHEDULE ARE MINIMUM THICKNESSES. IF LARGER SIZES ARE SPECIFIED ON THE PLANS THE SIZES SHOWN ON PLANS SHALL BE USED.
- ROD SHALL BE A36 ALL THREADED RODS.
- NUT AT HOLDDOWN THREADED ROD SHOULD BE FINGER-TIGHT PLUS 1/2 TURN WITH A HAND WRENCH. DO NOT OVER-TORQUE THE NUT. DO NOT USE IMPACT WRENCHES.
- PROVIDE HEAVY HEX NUT WHERE NOTED.

SHEAR WALL SCHEDULE

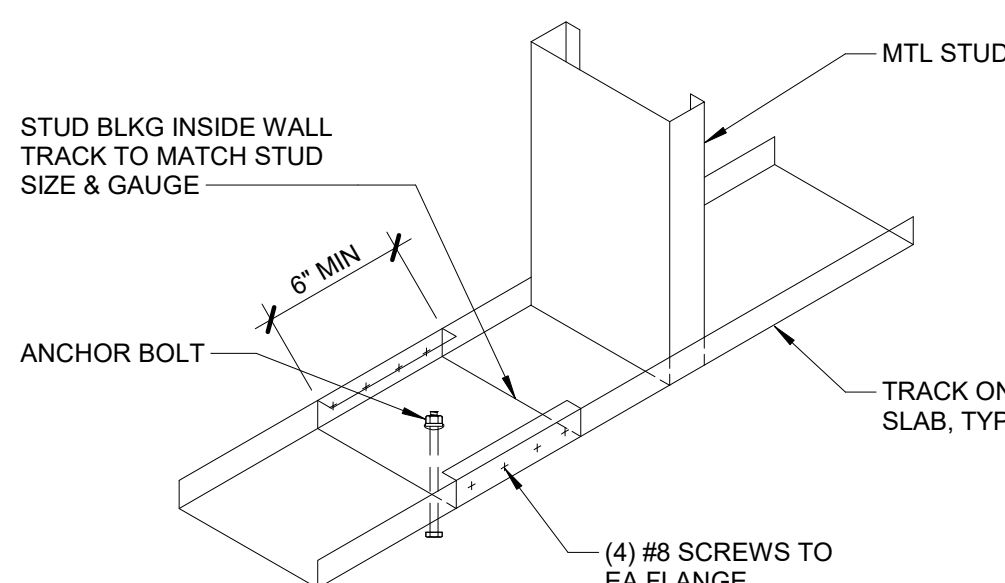
MARK	SHEATHING (NOMINAL THK)	SIDES	FASTENERS (3, 11)		FOUNDATION 5/8" CIP HEADED A.B. (1770# / A.B.)	TOP AND BOTTOM TRACK ATTACHMENT			MIN. FRM'G THICKNESS (11)	CAPACITY	CAPACITY AT FIRE TREATED WALLS	REMARK
			ES	FS		TO CF STUD FRAMING (3)	TO STRUCTURAL STEEL SCREWS	TO STRUCTURAL STEEL WELD				
6	1/2" STRUCT 1 OSB	ONE	#8 @ 6" OC	#8 @ 12" OC	@ 32" OC	#12 @ 8" OC	SIMPSON XL @ 24" OC	2" @ 24" OC	43 MILS	356 PLF	320 PLF	
4	1/2" STRUCT 1 OSB	ONE	#8 @ 4" OC	#8 @ 12" OC	@ 32" OC	#12 @ 6" OC	SIMPSON XL @ 16" OC	2" @ 16" OC	43 MILS	532 PLF	478 PLF	
4A	1/2" STRUCT 1 OSB	TWO	#8 @ 4" OC	#8 @ 12" OC	@ 16" OC	#12 @ 3" OC	SIMPSON XL @ 8" OC	2" @ 8" OC	43 MILS	1064 PLF	957 PLF	
3	1/2" STRUCT 1 OSB	ONE	#8 @ 3" OC	#8 @ 12" OC	@ 24" OC	#12 @ 4" OC	SIMPSON XL @ 16" OC	2" @ 16" OC	43 MILS	710 PLF	639 PLF	
3A	1/2" STRUCT 1 OSB	TWO	#8 @ 3" OC	#8 @ 12" OC	@ 12" OC	(2)-#12 @ 4" OC	SIMPSON XL @ 8" OC	2" @ 8" OC	43 MILS	1420 PLF	1278 PLF	
2	1/2" STRUCT 1 OSB	ONE	#8 @ 2" OC	#8 @ 12" OC	@ 24" OC	#12 @ 3" OC	SIMPSON XL @ 12" OC	2" @ 12" OC	43 MILS	876 PLF	788 PLF	
2A	1/2" STRUCT 1 OSB	TWO	#8 @ 2" OC	#8 @ 12" OC	@ 12" OC	(2)-#12 @ 3" OC	SIMPSON XL @ 6" OC	2" @ 6" OC	43 MILS	1752 PLF	1576 PLF	

NOTES:

- APA RATED, STRUCTURAL I PLYWOOD SHEATHING OR OSB, 15/32 MIN. EXPOSURE 1, USE EXTERIOR GRADE PLYWOOD TYPICAL.
- STAGGER VERTICAL JOINTS IN PLYWOOD SHEETS WHERE SHEAR WALLS ARE SHEATHED ON BOTH SIDES.
- ALL FASTENERS USED TO ATTACH WOOD STRUCTURAL PANEL SHEATHING TO COLD-FORMED STEEL STRUCTURAL MEMBERS SHALL COMPLY WITH ASTM C1513.
- SCREWS SHALL BE PLACED NOT LESS THAN 3/8" FROM PANEL EDGES.
- STEEL STUDS FOR SHEAR WALLS BE AS SPECIFIED ON PLANS. AS A MINIMUM REQUIREMENT, STEEL STUDS FOR SHEAR WALL MUST BE C-SHAPED, WITH A MIN. DEPTH OF 4" & A MIN. FLANGE WIDTH OF 1-5/8", WITH A 3/8" RETURN LIP AND THICKNESS AS NOTED ON SCHEDULE.
- TRACKS SHALL MATCH THE WALL STUD DEPTH AND SHALL HAVE MIN. 2" FLANGES UNLESS NOTED OTHERWISE ON PLANS.
- PROVIDE DOUBLE (BACK TO BACK) STUD AT EACH END OF SHEAR WALLS WITH MIN. THICKNESS AS NOTED ON THE SCHEDULE. IF A STRUCTURAL STEEL COLUMN IS SPECIFIED ON PLANS AT ENDS OF SHEAR WALL, PROVIDE SINGLE STUD WITH GAUGE PER SCHEDULE CONNECTED TO STRUCTURAL STEEL COLUMN. IN THIS CASE, EDGE SCREW (E.S.) PER SCHEDULE SHALL CONNECT PLYWOOD SHEATHING TO THE STUD.
- ALL PANEL EDGES SHALL BE FULLY BLOCKED. BLOCKING SECTION SHALL BE THE SAME AS THE WALL STUD SECTION.
- TOP & BOTTOM TRACK ANCHORS SHALL BE AS FOLLOWS:
 - A. INTO STRUCTURAL STEEL FRAMING (MAX. COMBINED STEEL THK. <= 1/2"); SIMPSON XL SCREWS (IAPMO ER-326, LARR# 26009).
 - B. INTO STRUCTURAL STEEL FRAMING (MAX. COMBINED STEEL THK. > 1/2"); 1/8" THK. FILLET WELDS.
 - C. INTO CONCRETE CURB/FOOTINGS: CAST-IN-PLACE HEADED ANCHOR RODS (ASTM F1554, GR 36)
- LOAD CAPACITIES SHOWN ARE BASED ON ALLOWABLE STRENGTH DESIGN (ASD).
- FOR STUD FRAMING 68 MILS AND THICKER, USE #10 SCREWS IN LIEU OF #8 SCREWS, FASTENER SPACING TO STAY THE SAME.
- NUMBER OF ANCHOR BOLTS REQUIRED EQUAL TO WALL LENGTH DIVIDED BY BOLT SPACING.
- BOTTOM TRACK ANCHOR BOLTS SHALL HAVE 7" MINIMUM EMBEDMENT INTO CONCRETE PER 4/S-706.
- FIRE RETARDANT TREATED WOOD AND PLYWOOD SHALL BE BY PYRO-GUARD GUARD AS MANUFACTURED BY HOOVER TREATED WOOD PRODUCTS, INC. OR APPROVED EQUAL. STRUCTURAL DESIGN ACCOMMODATES THE FOLLOWING STRENGTH REDUCTION FACTORS FOR CLIMATE ZONE 1B:
 $F_c = 0.98$; $F_v = 0.95$; $F_t = 0.87$; $E = 0.96$; $F_b = 0.93$; FASTENER/CONNECTORS = 0.9
- ALL FIRE TREATED WOOD SHALL BE LABELED AS SPECIFIED IN CBC SECTION 2303.2.4 AND SHALL BEAR THE IDENTIFICATION MARK OF AN APPROVED AGENCY IN ACCORDANCE WITH SECTION 1703.5. ALL FASTENERS INSTALLED IN FIRE RETARDANT TREATED WOOD SHALL BE HOT-DIP GALVANIZED OR STAINLESS STEEL. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.

2 SHEAR WALL - SCHEDULE AND NOTES

NO SCALE



7 STUD WASHER AT HEADED ANCHOR

1" = 1'-0"



owner approval

initials	date	phase

REVISIONS/ADDENDA

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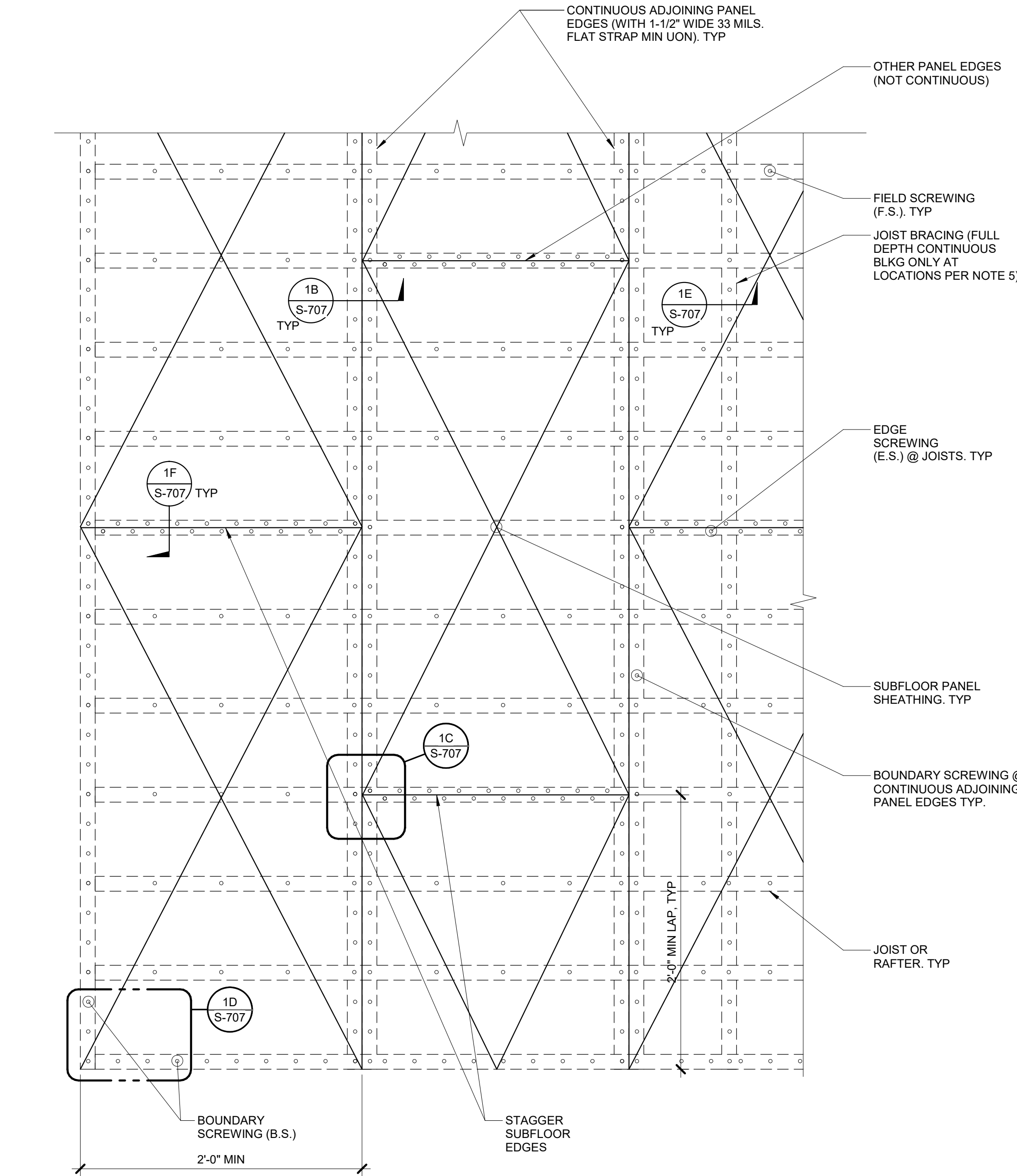
SHEET NAME

TYPICAL METAL STUD SHEAR WALL DETAILS

SHEET NUMBER

S-706

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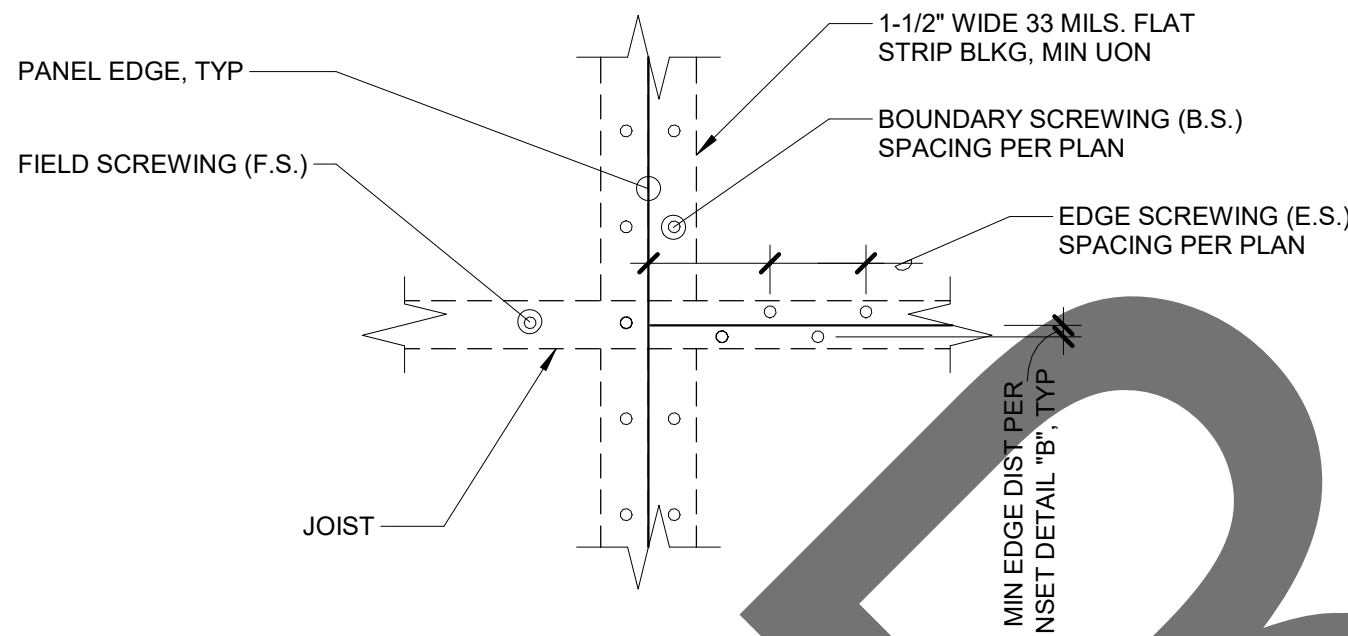


- NOTES:**
1. FOR SHEATHING THICKNESS AND GRADE AND SCREW SPACING, SEE 1G/S-707.
 2. FOR SCREW SIZE AND SPACING OF BOUNDARY SCREWING (B.S.) AND EDGE SCREWING (E.S.) AT JOISTS, SEE PLANS. FIELD SCREWING (F.S.) SHALL BE @ 12" O.C. U.N.O. ON PLAN.
 3. PROVIDE MIN. 1/2" SCREW EDGE DISTANCE FROM SHEATHING AND COLD-FORMED FRAMING MEMBERS. PROVIDE MIN. 3/4" SCREW EDGE DISTANCE FROM SHEATHING AND HOT-ROLLED FRAMING MEMBERS. SEE INSET DETAIL "B".
 4. FOR JOIST OR RAFTER SIZE AND SPACING SEE PLANS.
 5. FULL DEPTH CONTINUOUS JOIST BRACING: WHERE INDICATED ON PLAN, PROVIDE FULL DEPTH CONTINUOUS BLOCKING TO BRACE JOIST FRAMING AS SHOWN PER INSET DETAIL "E".
 6. THE MIN WIDTH OF SCREWED FACE OF FRAMING AND BLOCKING AT ADJOINING PANEL EDGES SHALL BE 1 1/2". SEE INSET DETAIL "B". PROVIDE FLAT STRAP BLOCKING AT ALL CONTINUOUS ADJOINING PANEL EDGES U.N.O. ON PLAN.
 7. ALL SHEATHING END JOINTS SHALL BE STAGGERED 2'-0" MIN AS INDICATED.
 8. LONG DIMENSION (FACE GRAIN) OF SUBFLOORING SHALL BE LAID PERPENDICULAR TO JOIST AS INDICATED.
 9. DIAPHRAGM SCREWING TO BE OBSERVED BY STRUCTURAL ENGINEER BEFORE COVERING.
 10. PLYWOOD SPANS SHALL CONFORM WITH TABLE 2304.8(1) OF THE LATEST VERSION OF THE CBC, BASED ON COLD-FORMED STEEL DIAPHRAGM SHEATHED WITH WOOD STRUCTURAL PANEL, PER AISI S400-15 F2.4.1

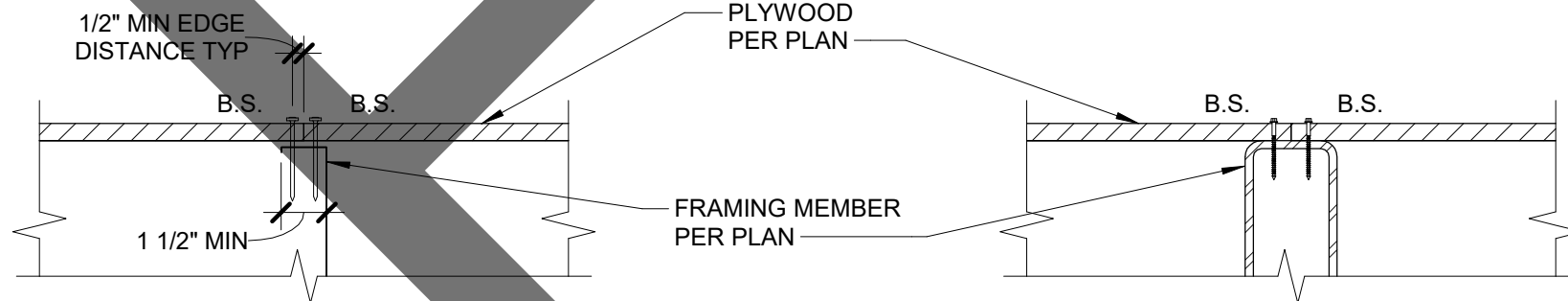
1 ROOF AND FLOOR DIAPHRAGM DETAIL

1" = 1'-0"

D EDGE CONDITION - ATTACHMENT AT BOUNDARY

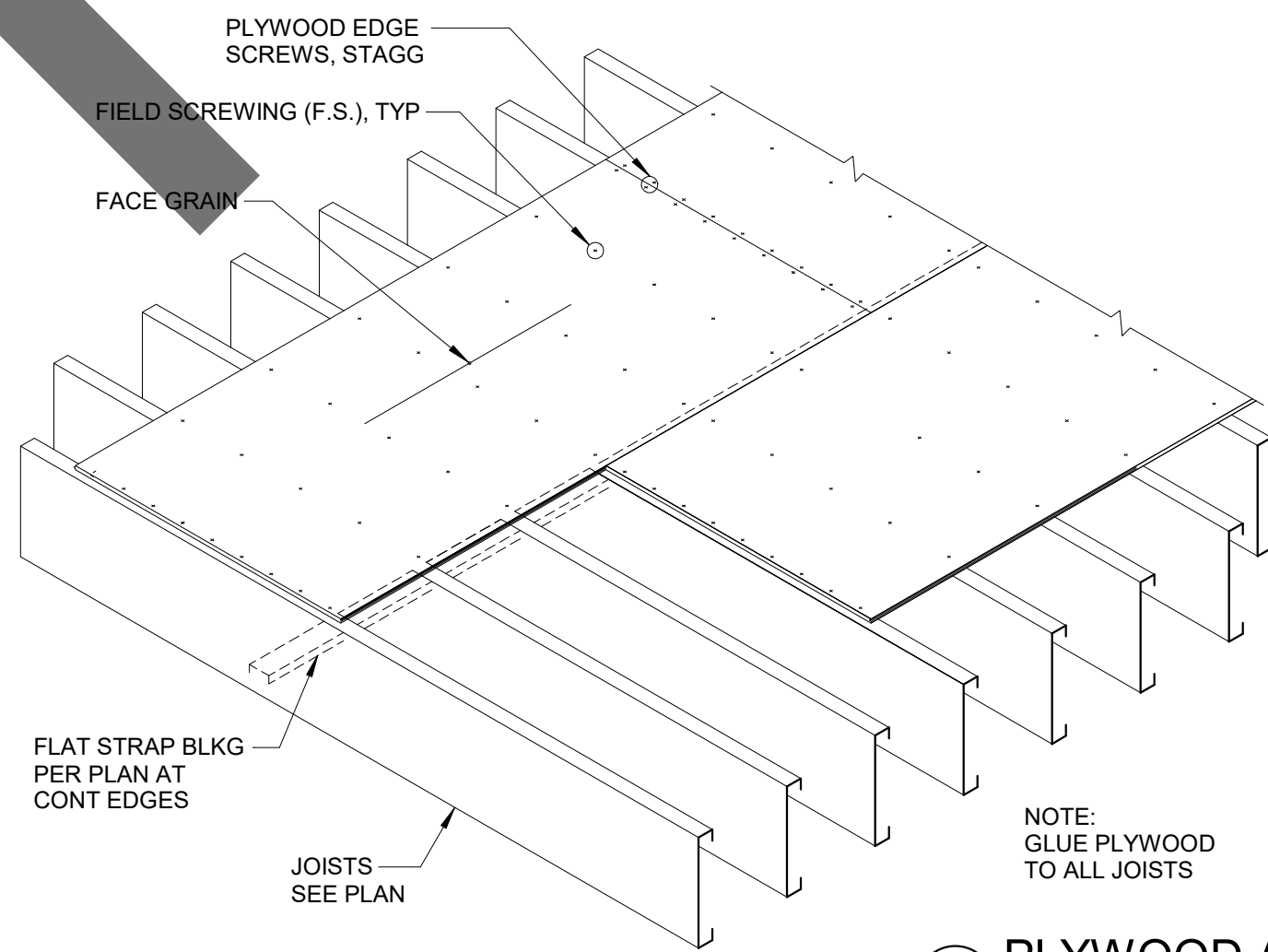


C INTERIOR CONDITION - ATTACHMENT AT BOUNDARY/EDGE



B1 COLD FORMED FRAMING

B SCREW ATTACHMENT - EDGE DISTANCE



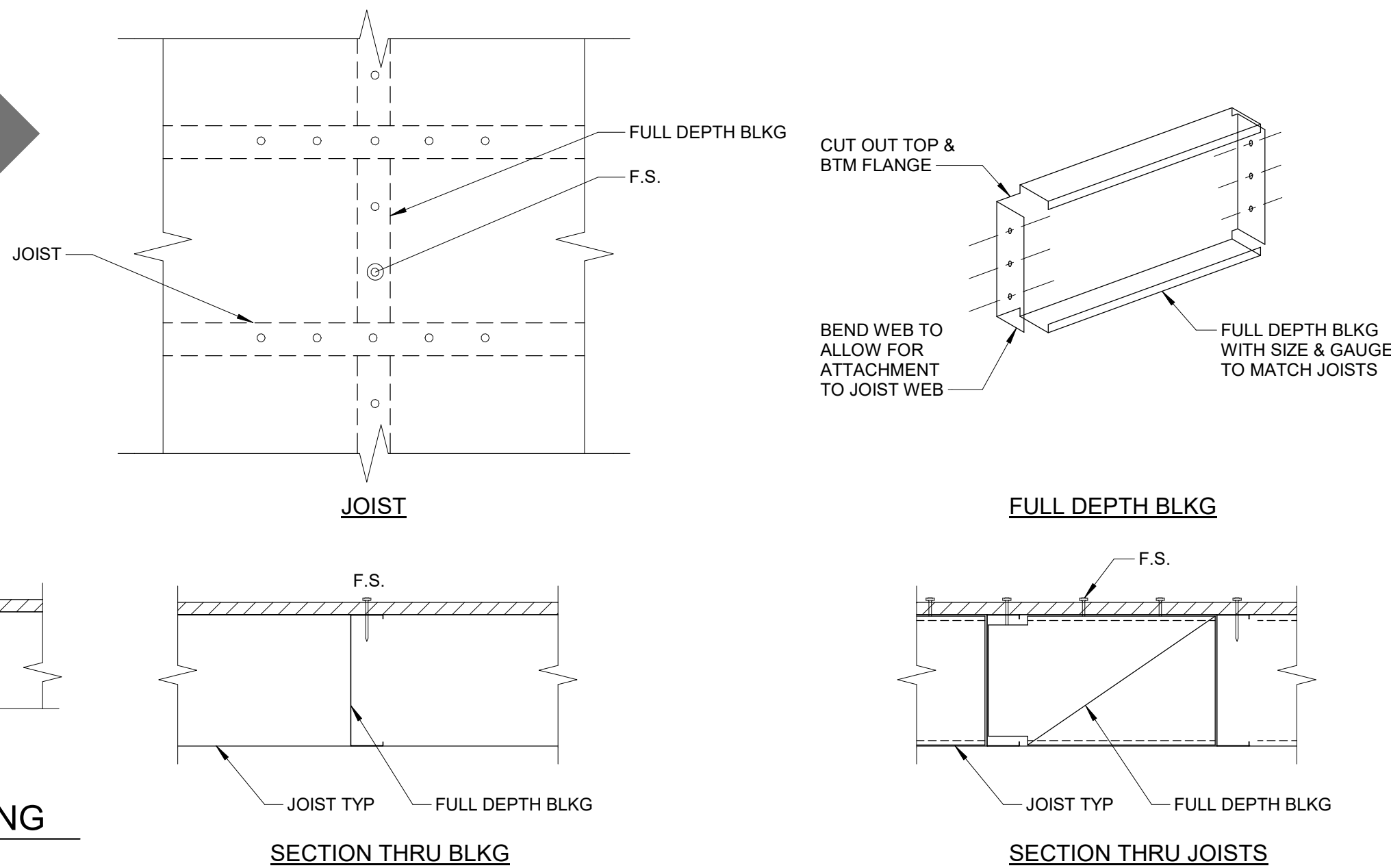
B2 HOT ROLLED FRAMING

PLYWOOD ATTACHMENT SCHEDULE

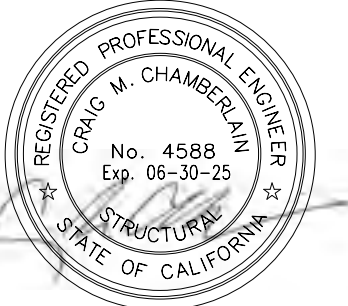
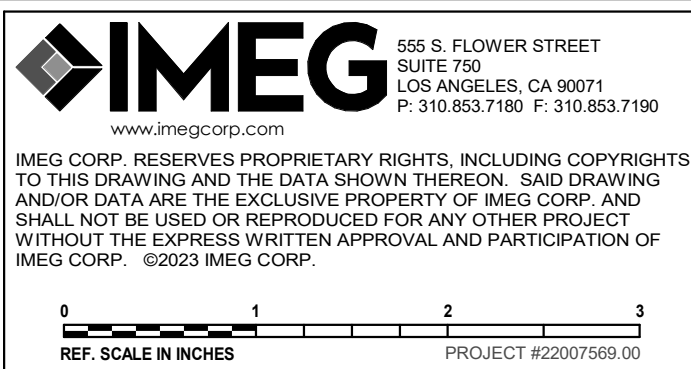
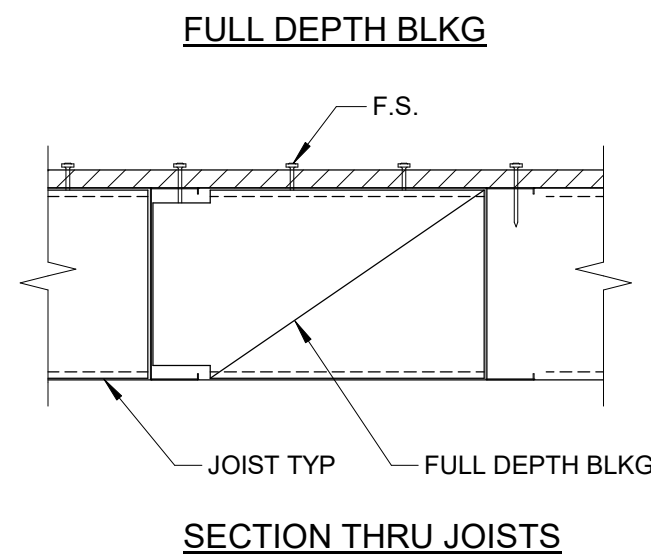
LOCATION	PLYWOOD SHEATHING	BOUNDARY	CONT. EDGES	OTHER EDGES	SOLID BLKG.	REMARKS
ROOF	1/2" THK STR I	2 1/2" O.C.	2 1/2" O.C.	4" O.C.	YES	-
FLOOR	3/4" THK STR I	4" O.C.	4" O.C.	6" O.C.	YES	-

G PLYWOOD ATTACHMENT DETAIL

F ADJOINING PANEL EDGES - ATTACHMENT TO JOISTS



E JOIST BRACING - FULL DEPTH BLOCKING



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initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	06/12/24	PLAN CHECK RESUBMITTAL

ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8968

PROJECT INFORMATION

Project Number:	22007569.00
Drawn By:	HYK
Checked By:	JP
Issue Date:	06/12/2024

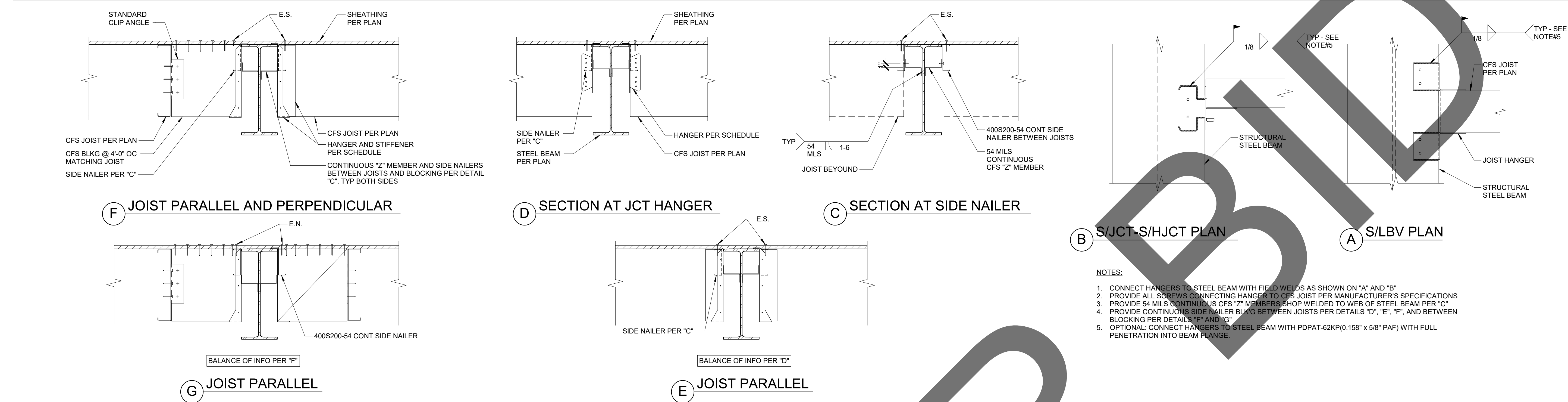
SHEET NAME

TYPICAL METAL STUD DETAILS

SHEET NUMBER

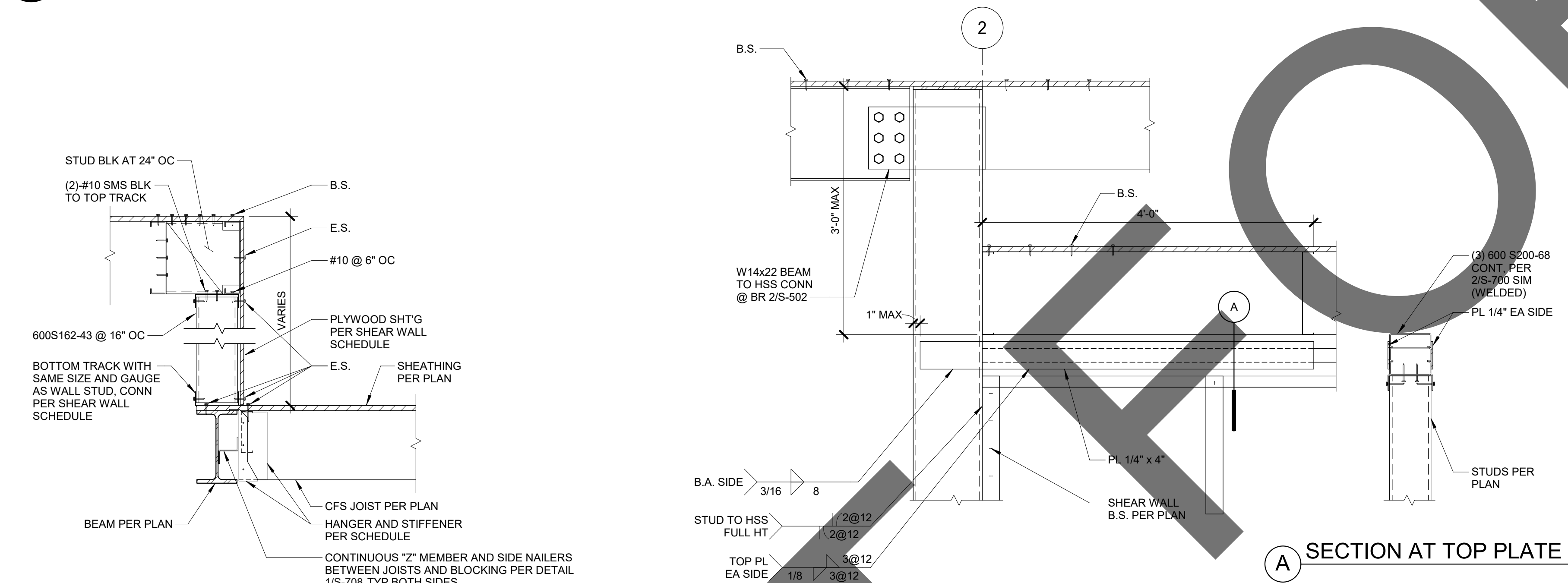
S-707

Sheet Of Sheets



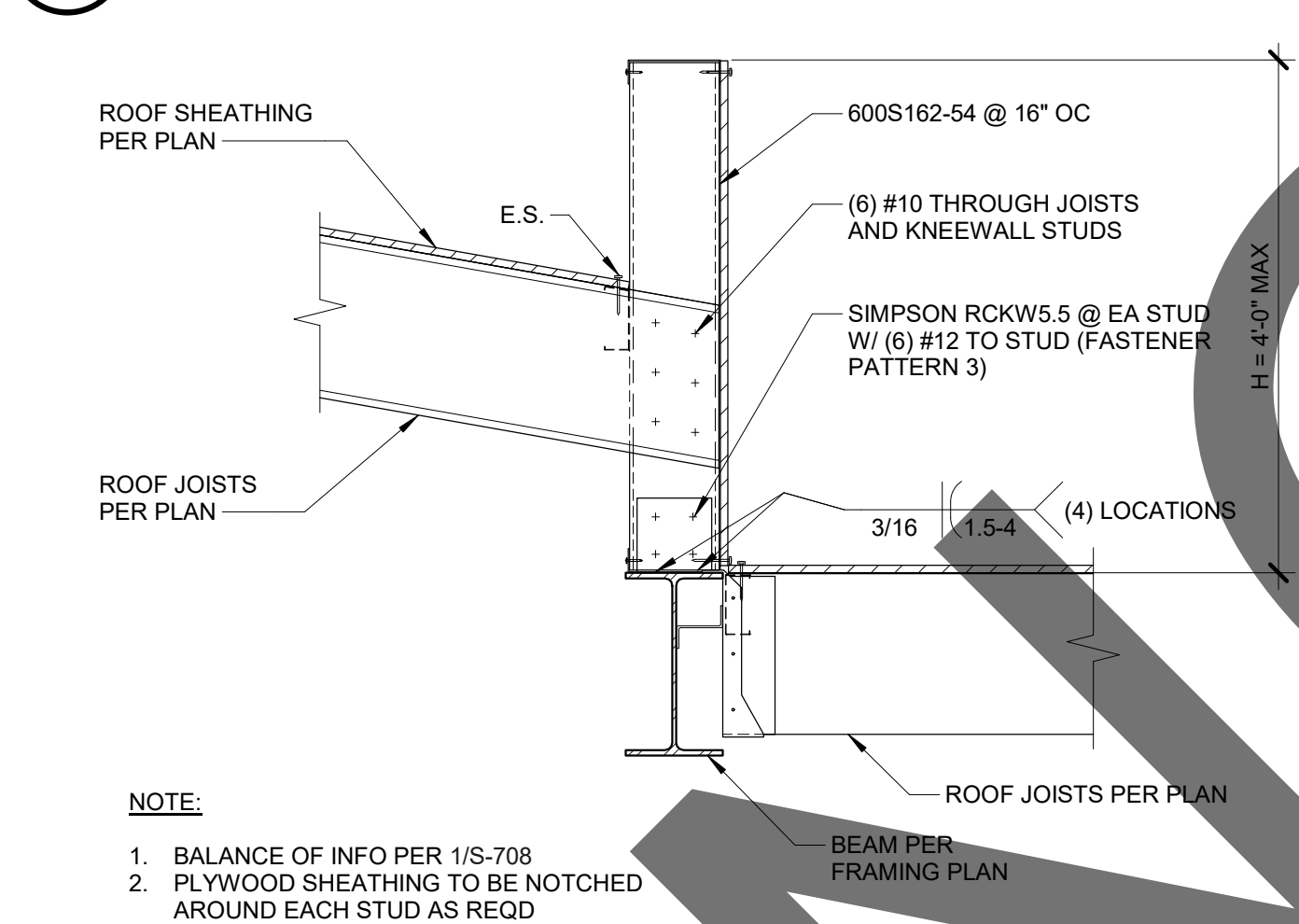
1 CFS FRAMING TO STEEL WIDE FLANGE BEAM

NO SCALE



2 SECTION

1" = 1'-0"

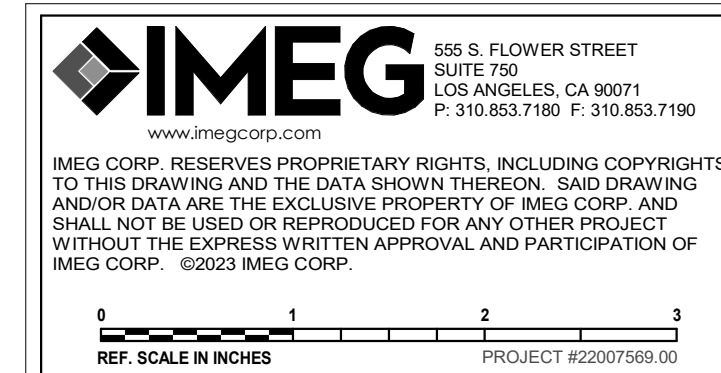


5 PARAPET KNEEWALL

NO SCALE

4 PARAPET KNEEWALL

NO SCALE



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SHEET NAME

TYPICAL METAL STUD DETAILS

SHEET NUMBER

S-708

Sheet Of Sheets

CFS HEADER	HANGER SCHEDULE		
	JOIST	HANGER	STIFFENER
	ALL UON PER THIS SCHEDULE	S/B	YES
	(1) 800 S 300-97	S/JCT	NO
	(1) 800 S 350-118	S/HJCT	NO
	(2) 800 S 350-97	S/LBV	YES
	(1) 1000 S 250-68	S/JCT	NO
	(1) 1000 S 350-118	S/HJCT	NO
	(2) 1000 S 350-68	S/LBV	YES
	(1) 1200 S 250-68	S/JCT	NO
	(1) 1200 S 350-118	S/HJCT	NO
	(2) 1200 S 300-68	S/LBV	YES
	(1) 1400 S 250-68	S/JCT	NO
	(1) 1400 S 350-118	S/HJCT	NO

STEEL BEAM HEADER	HANGER SCHEDULE		
	JOIST	HANGER	STIFFENER
	ALL UON PER THIS SCHEDULE	S/B	YES
	(1) 800 S 250-43	S/JCT	NO
	(1) 800 S 350-68	S/HJCT	NO
	(2) 800 S 350-97	S/LBV	YES
	(1) 1000 S 200-43	S/JCT	NO
	(1) 1000 S 350-68	S/HJCT	NO
	(2) 1000 S 350-68	S/LBV	YES
	(1) 1200 S 200-68	S/HJCT	NO
	(2) 1200 S 300-68	S/LBV	YES
	(1) 1400 S 200-68	S/HJCT	NO
	(2) 1400 S 200-68	S/LBV	YES
	(1) 1600 S 350-68	S/LBV	YES

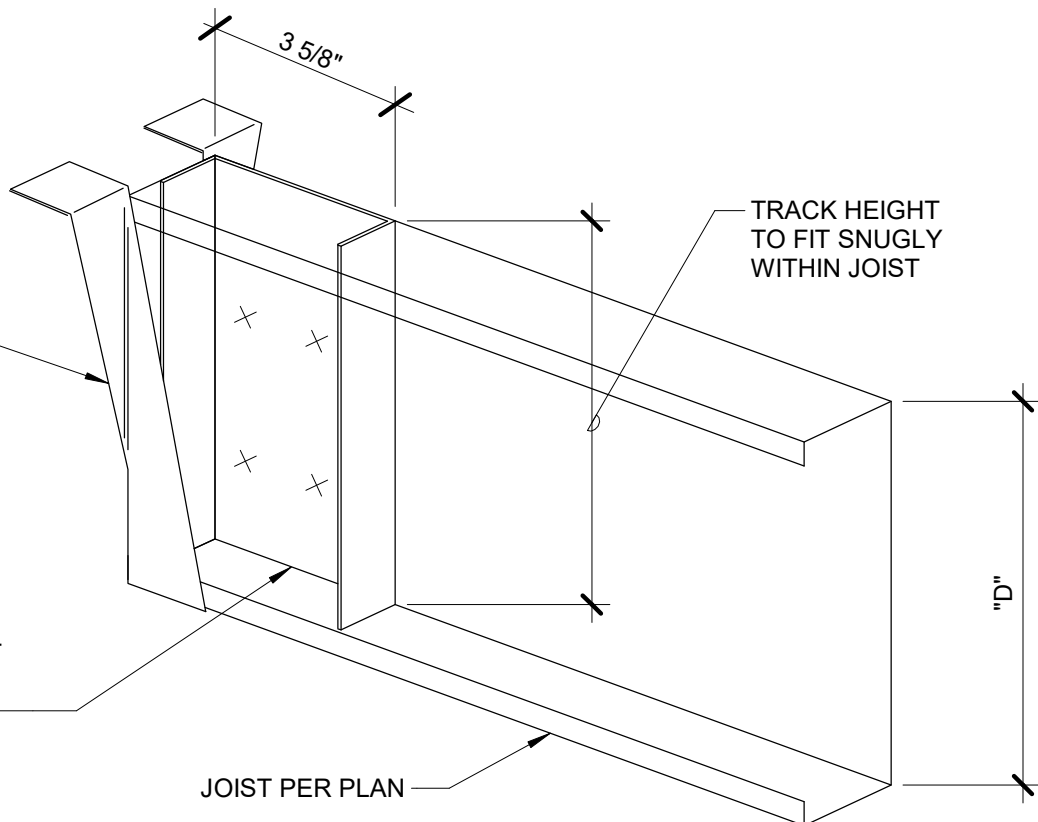
JOIST HANGER PER SCHEDULE WITH BOTTOM BEARING FLANGE

TRACK INSIDE JOIST WEB STIFFENER. TRACK FLANGE WIDTH SHALL BE THE LARGEST STANDARD FLANGE THAT FITS INSIDE THE JOIST BUT DOES NOT NEED TO EXCEED 2". TRACK THICKNESS SHALL MATCH JOIST THICKNESS

NOTES:

- FOR JOIST SECTIONS NOT SHOWN ON THE SCHEDULE PROVIDE HANGER SPECIFIED FOR NEXT LARGER AVAILABLE SIZE. FOR INSTANCE, FOR 1400S200-68 (MISSING ON SCHEDULE) PROVIDE HANGER SPECIFIED FOR 1400S250-68

HANGER CONFIGURATION

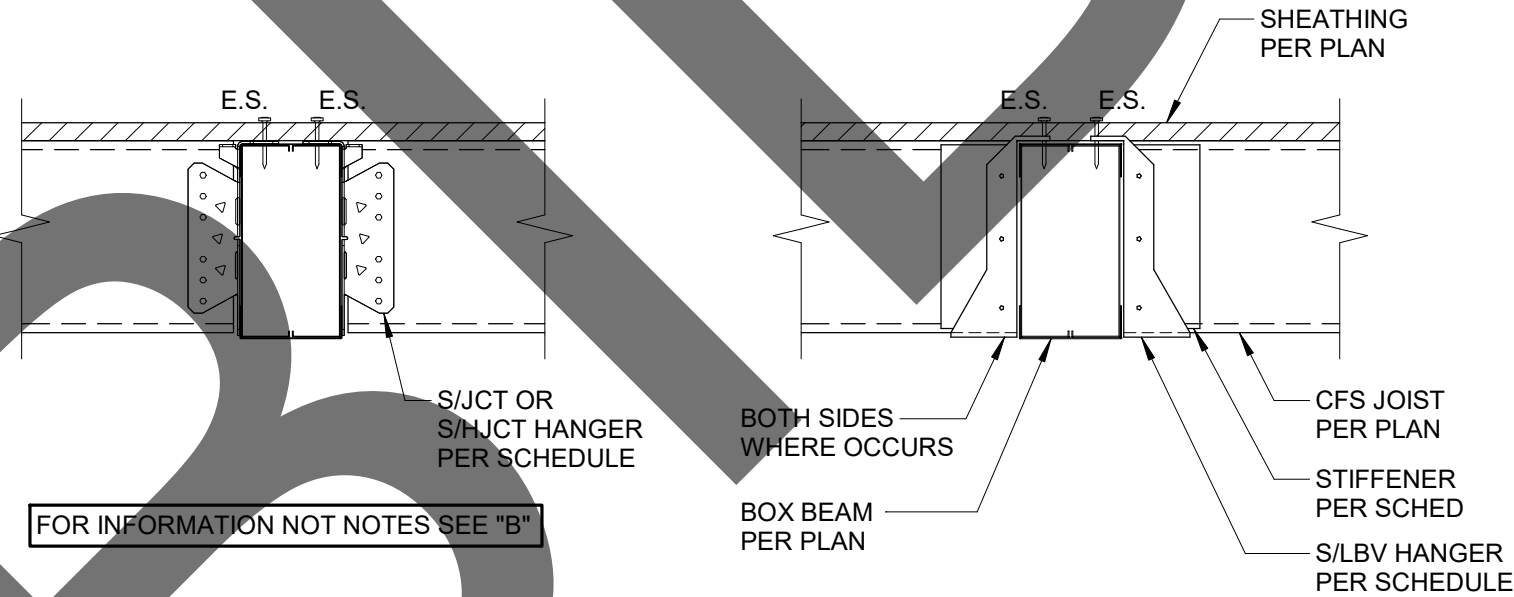


SECTION AT JOCT HANGER

NOTES:

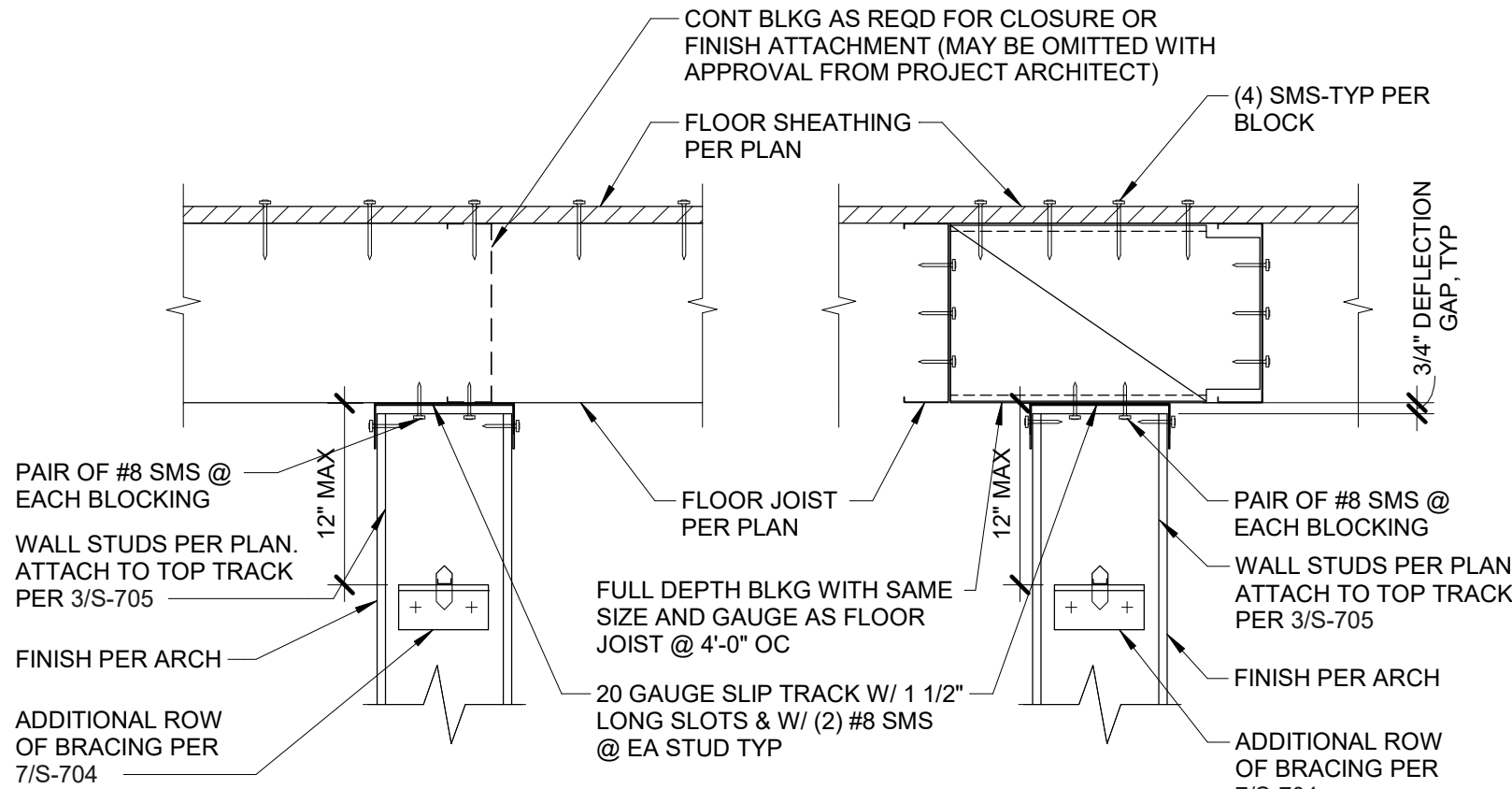
- FASTENERS FOR BOX BEAM BUILD UP NOT SHOWN.
- PROVIDE TOP, FACE, AND SIDE SHEET METAL SCREW PER HANGER MANUFACTURER'S SPECIFICATIONS (NOT SHOWN)

SECTION AT SIDE NAILER



1 JOIST HANGER SCHEDULE

NO SCALE

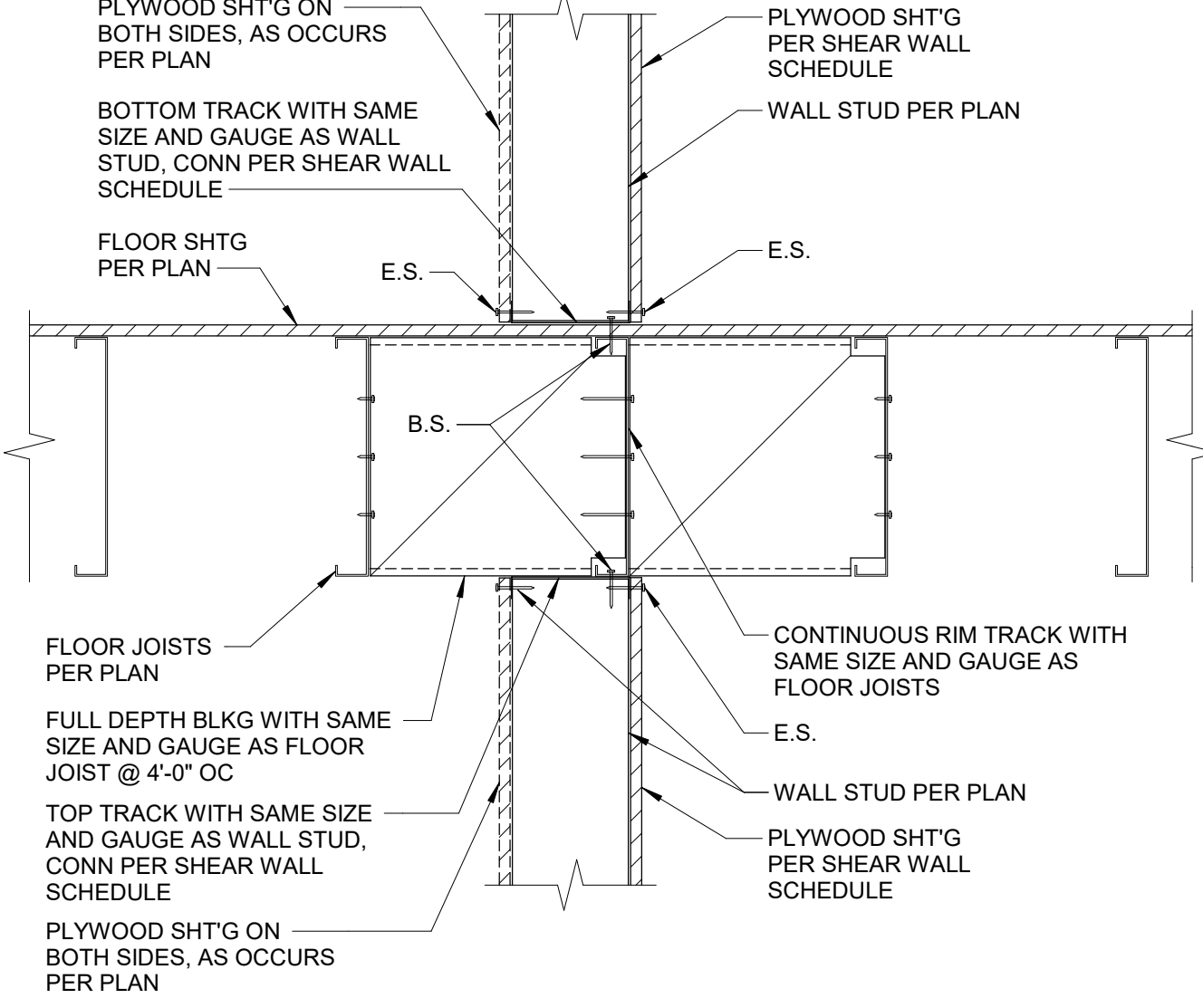
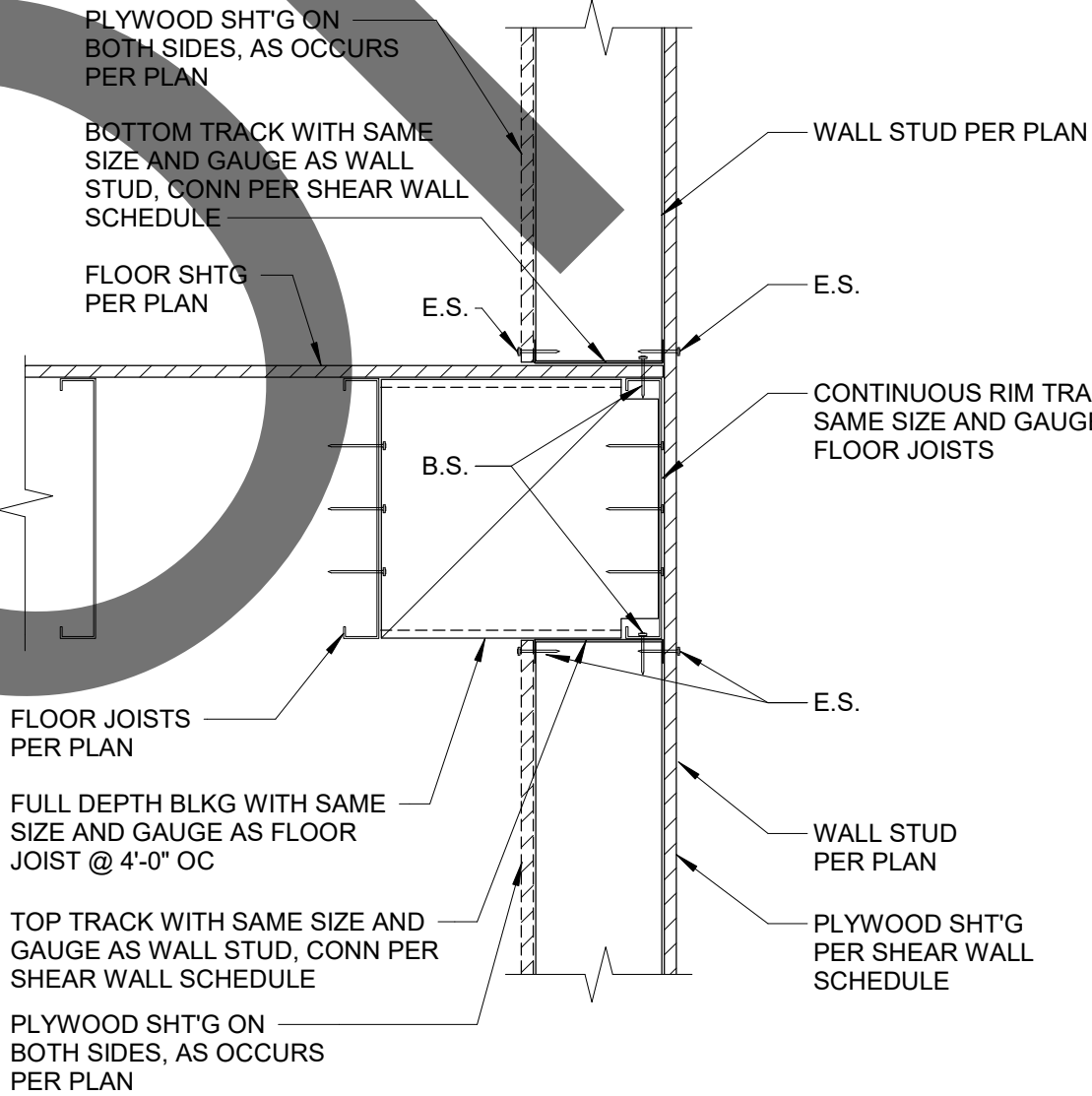
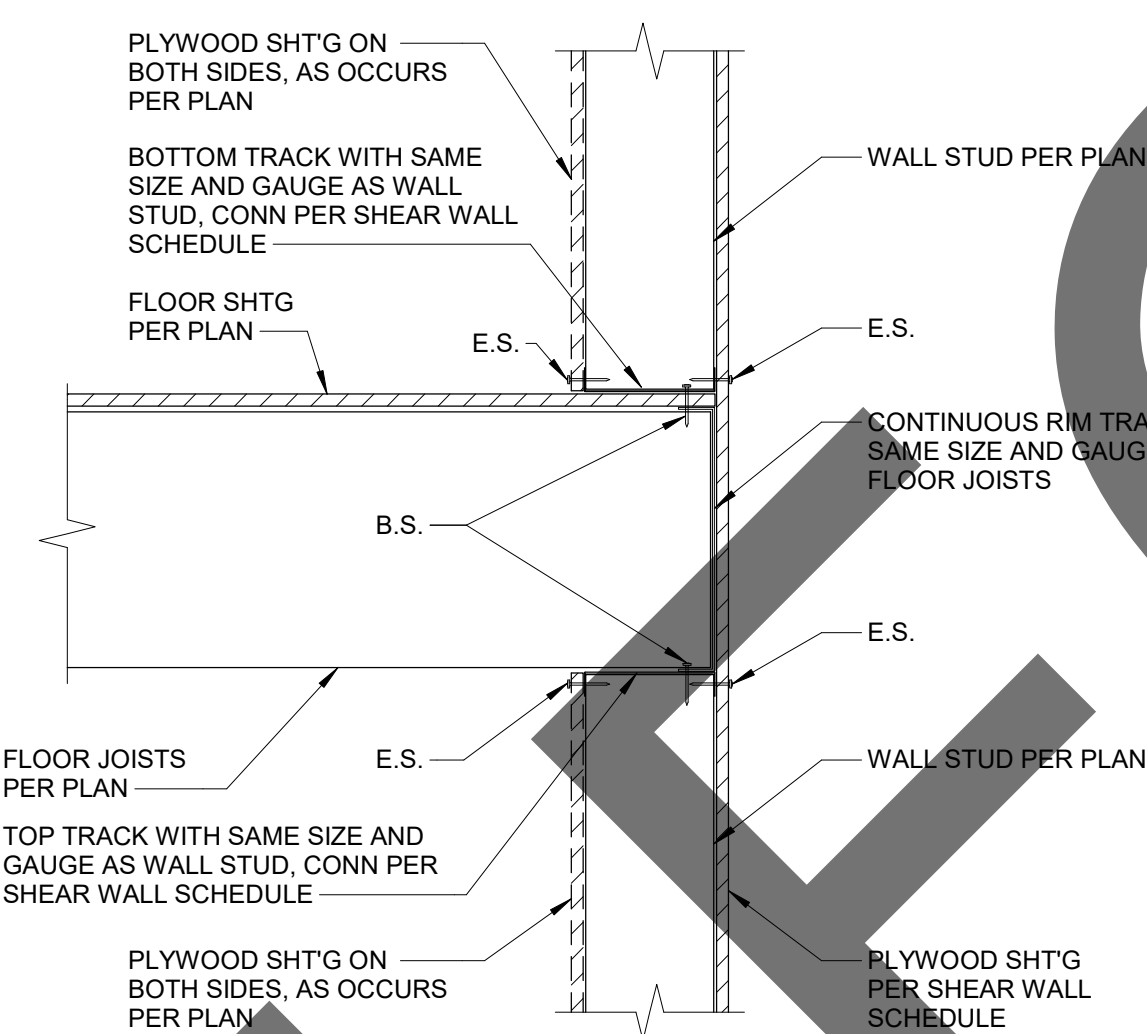


A WALL PERPENDICULAR TO JOIST

B WALL PARALLEL TO JOIST

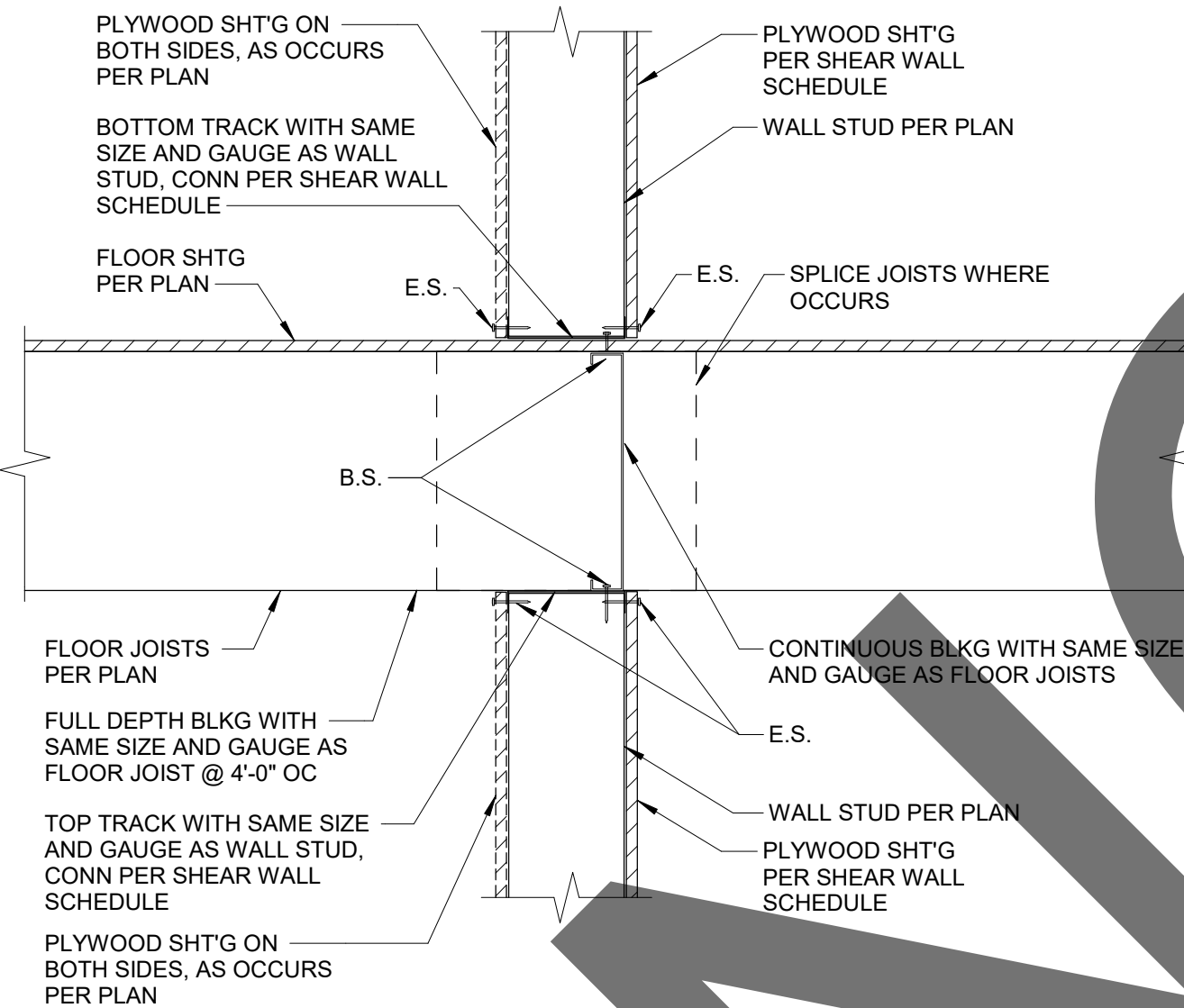
2 JOIST TO BEAM CONNECTION

NO SCALE



3 NON-BEARING WALL TOP CONNECTION

NO SCALE

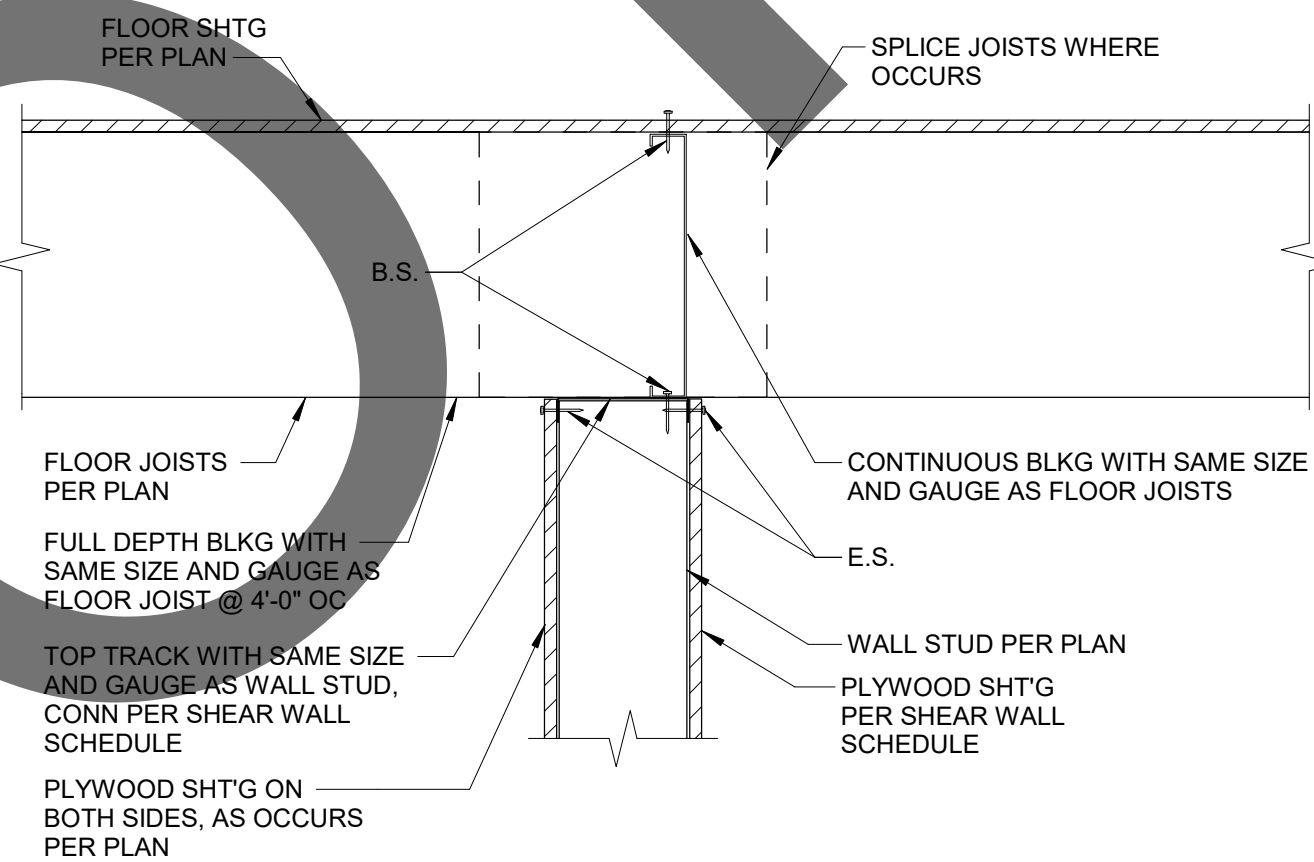


7 DETAIL

NO SCALE

4 DETAIL

NO SCALE

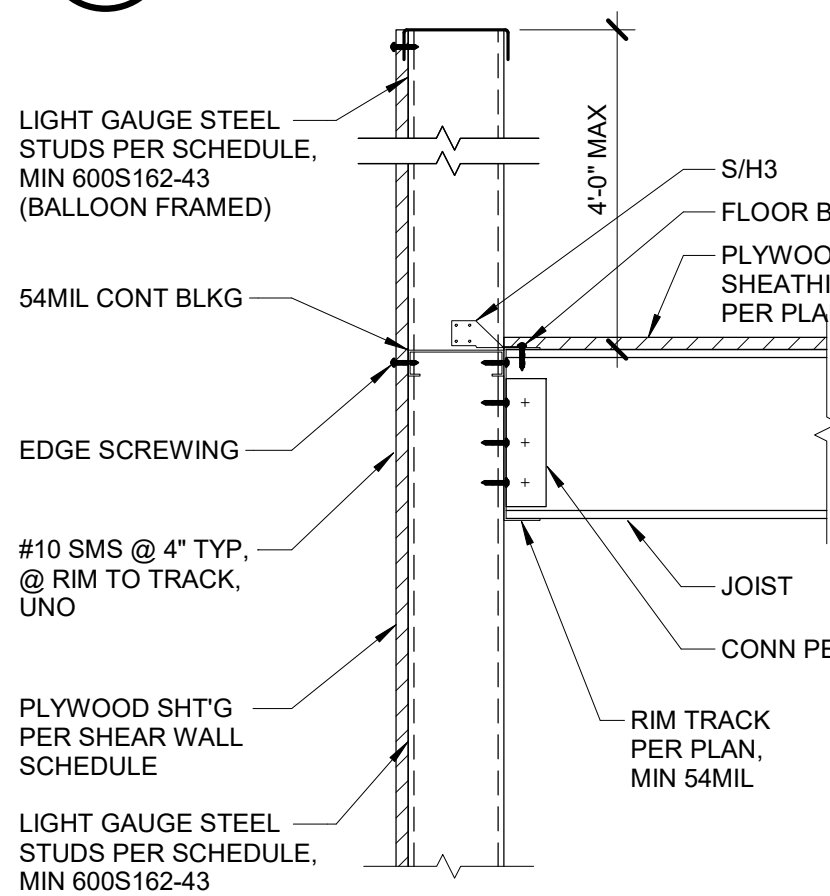


8 DETAIL

NO SCALE

5 DETAIL

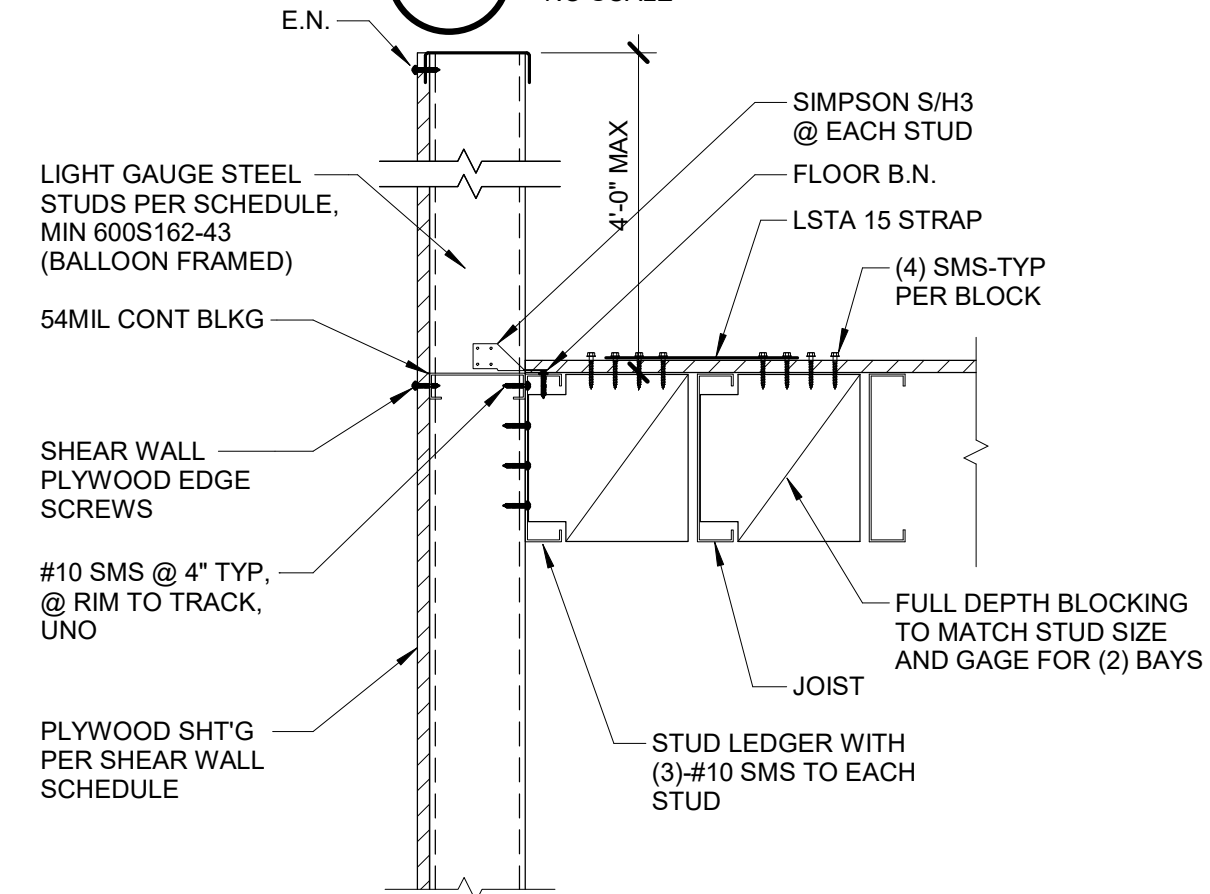
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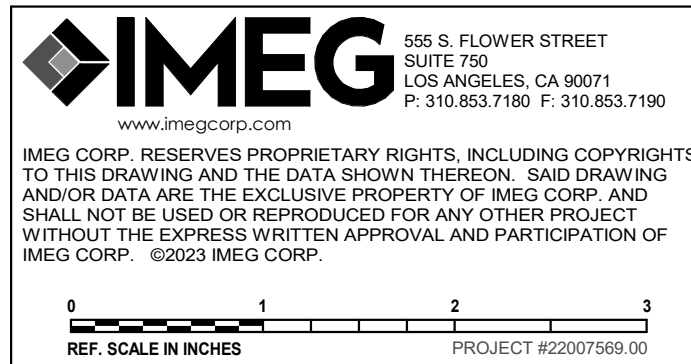
A PERPENDICULAR AT ROOF EXTERIOR WALL

6 DETAIL

NO SCALE



B PARALLEL AT ROOF EXTERIOR WALL



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REVISIONS/ADDENDA

#	Date	Comment
1	06/12/24	PLAN CHECK RESUBMITTAL

ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8968

PROJECT INFORMATION

Project Number:	22007569.00
Drawn By:	HYK
Checked By:	JP
Issue Date:	06/12/2024

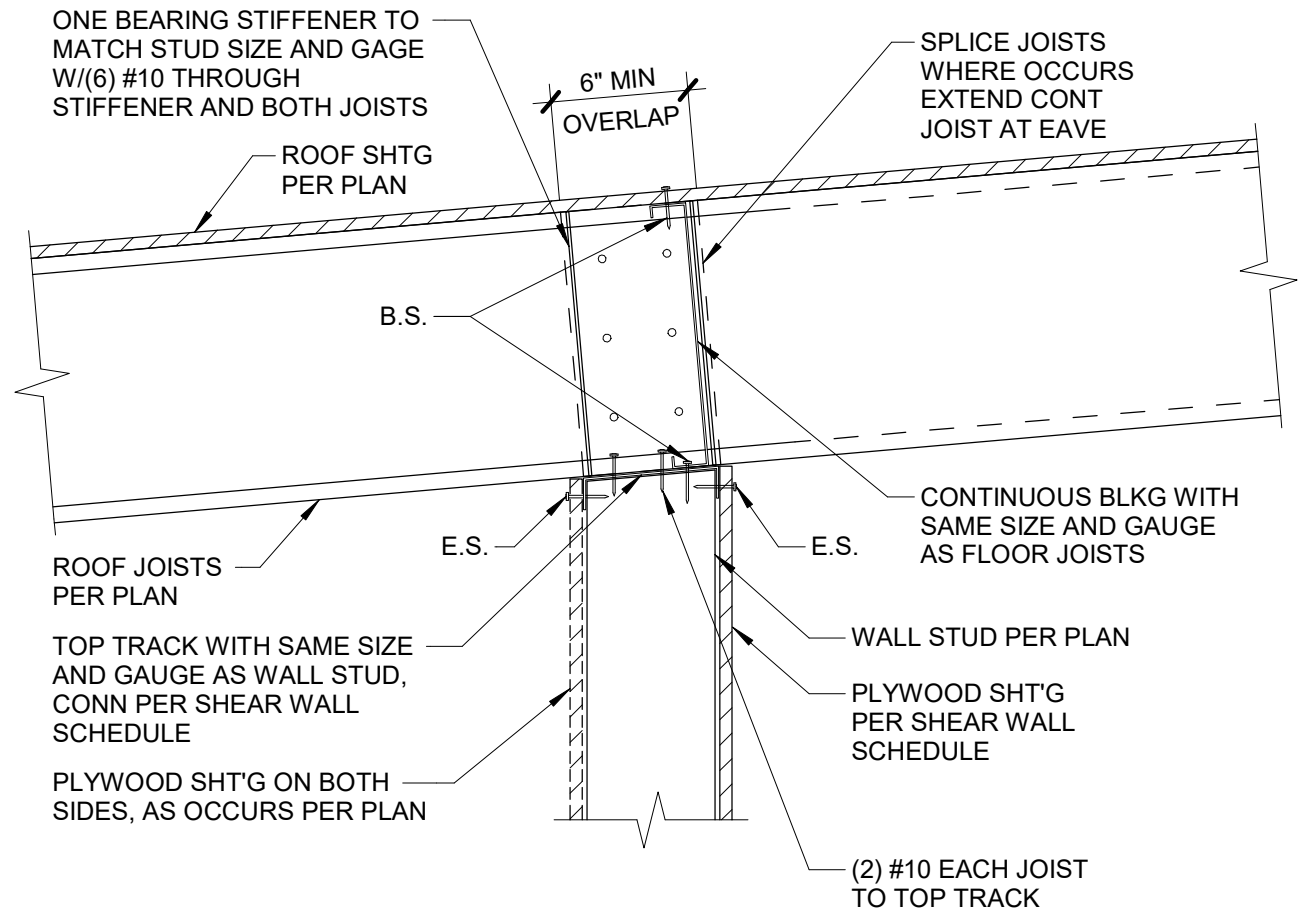
SHEET NAME

TYPICAL METAL STUD DETAILS

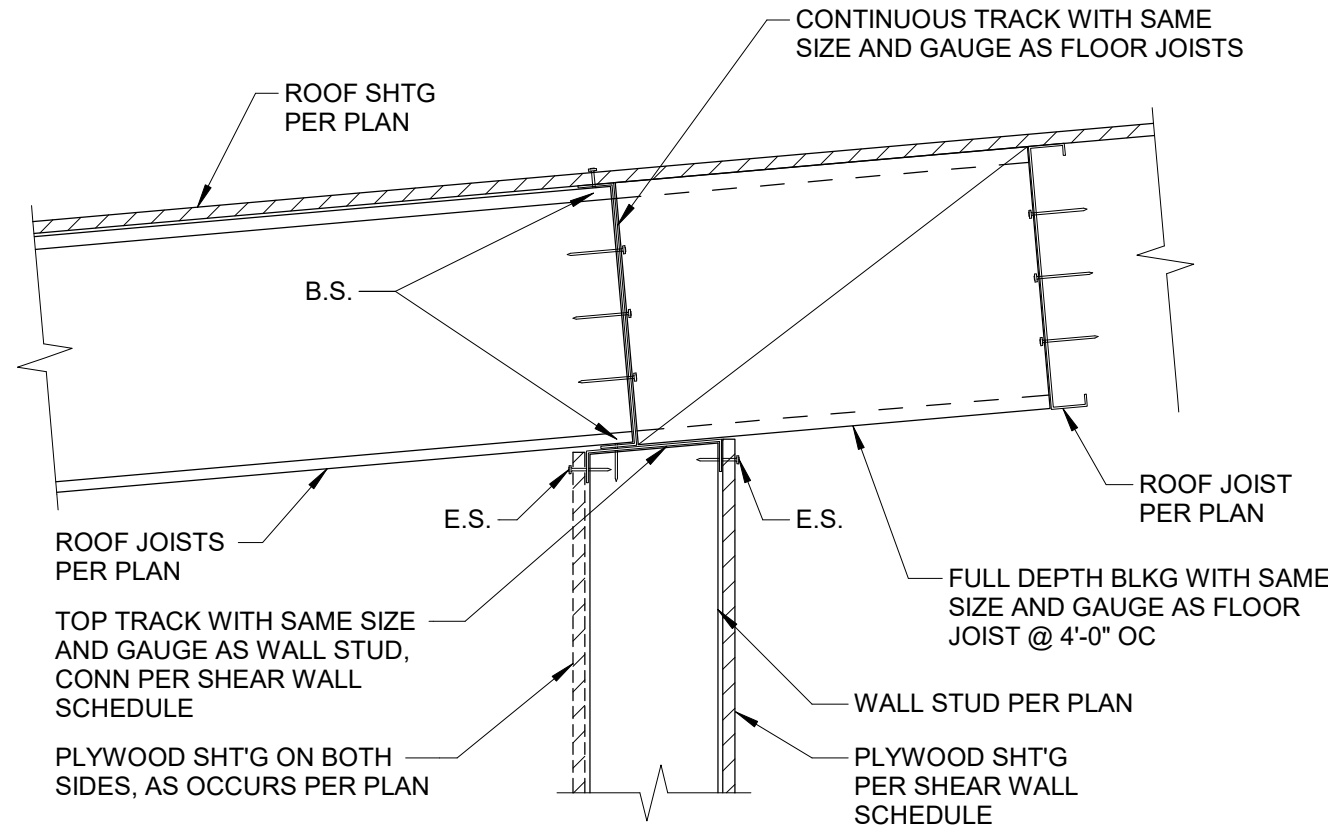
SHEET NUMBER

S-709

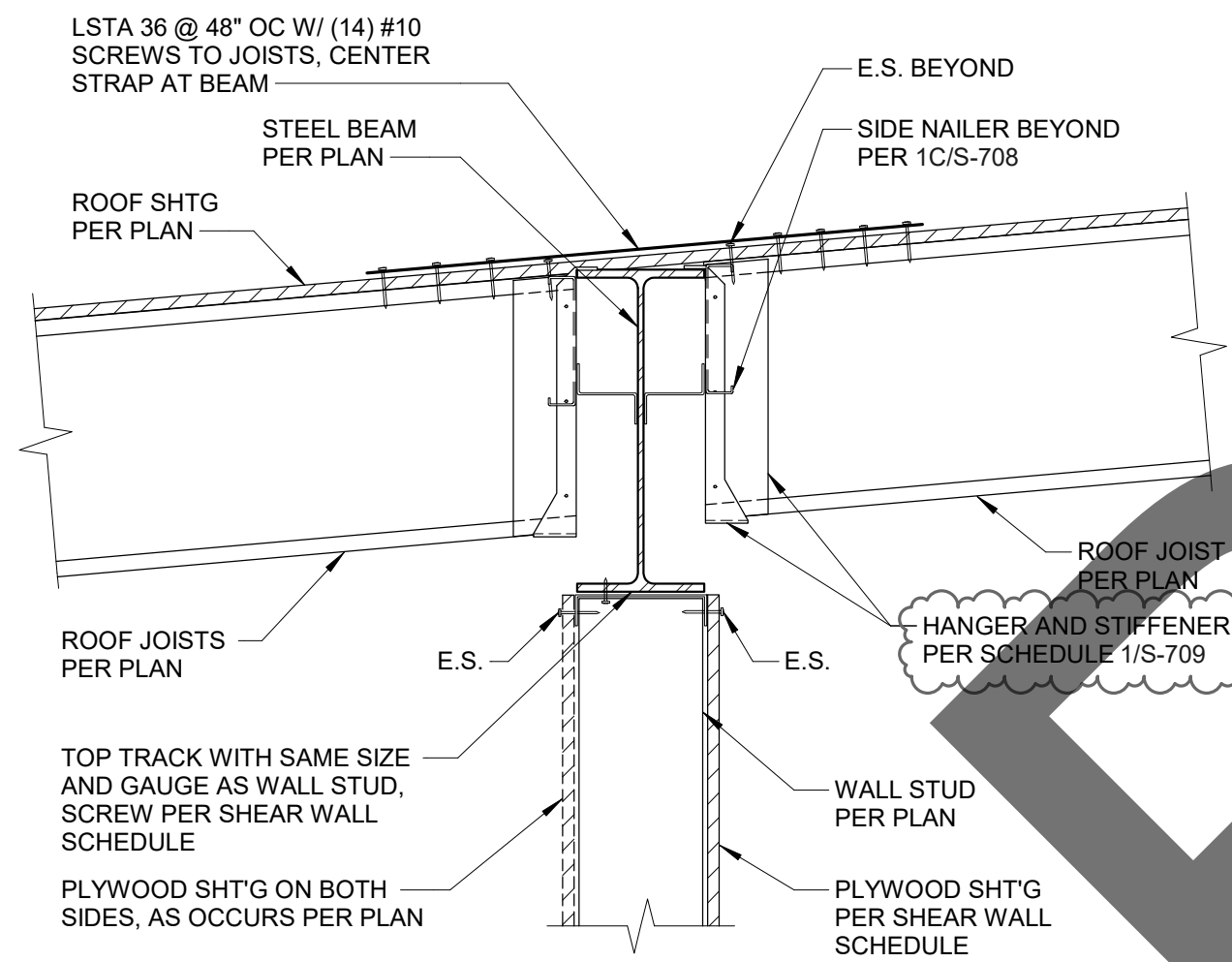
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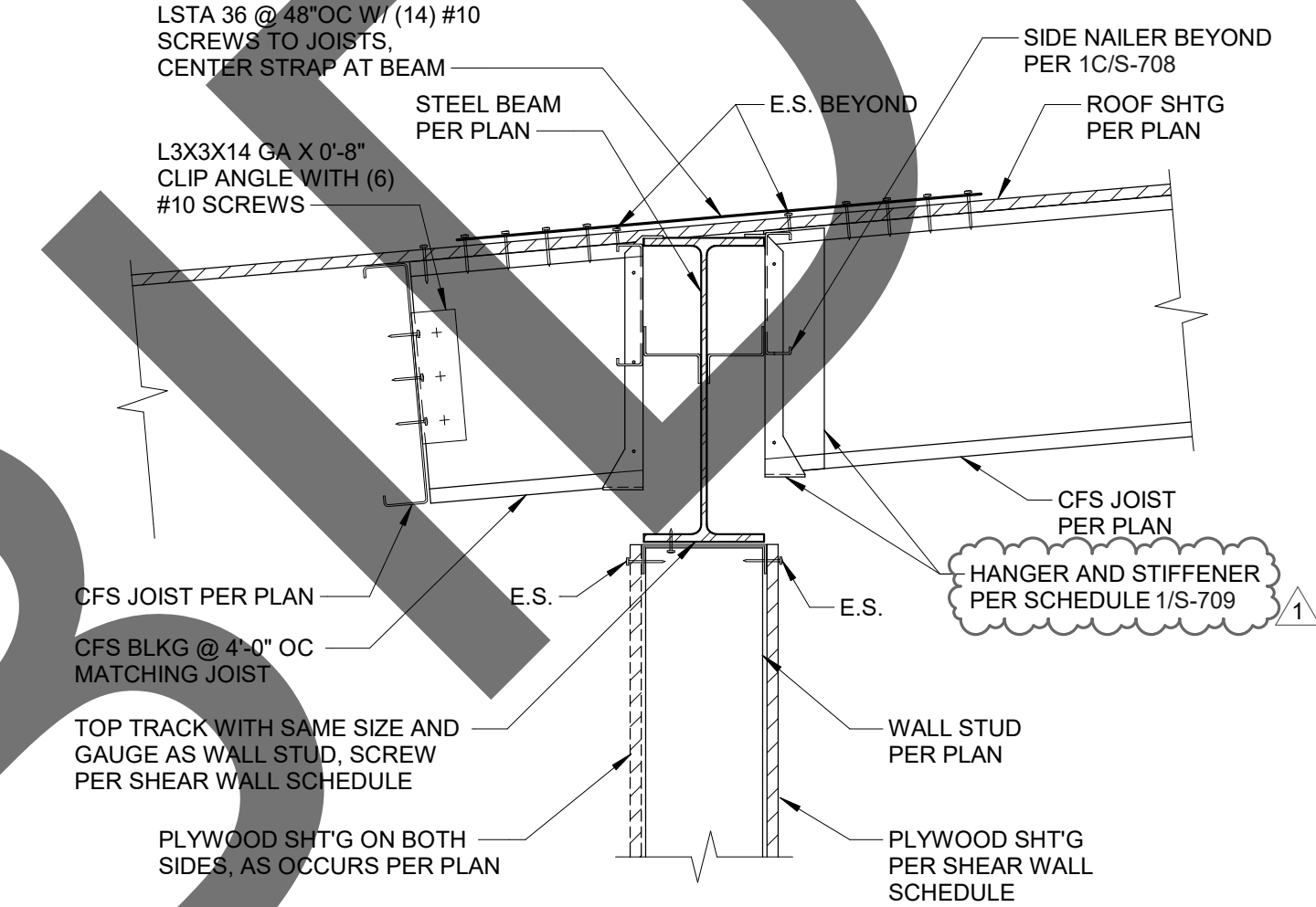
1 TYPICAL DETAIL
NO SCALE



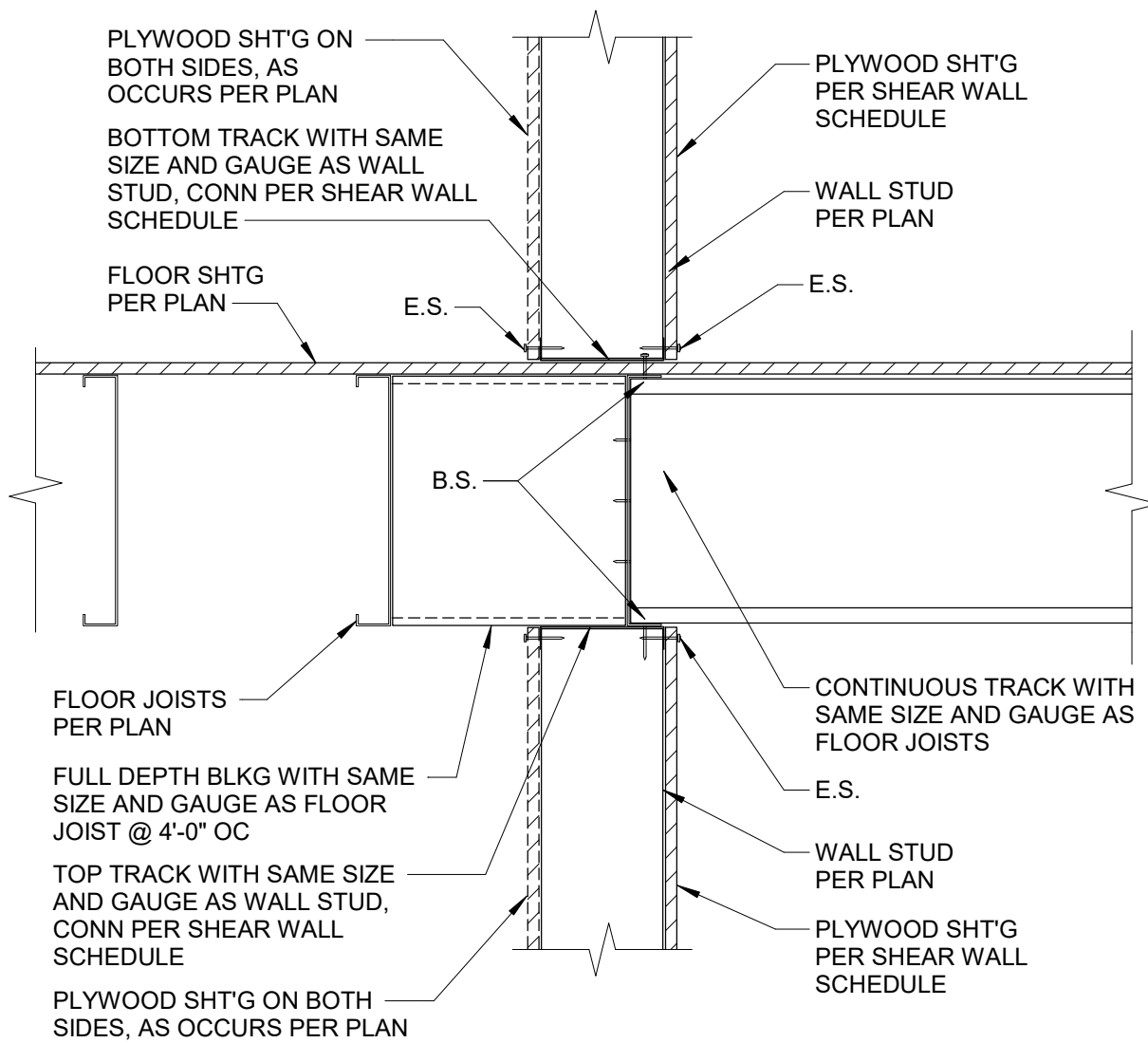
2 TYPICAL DETAIL
NO SCALE



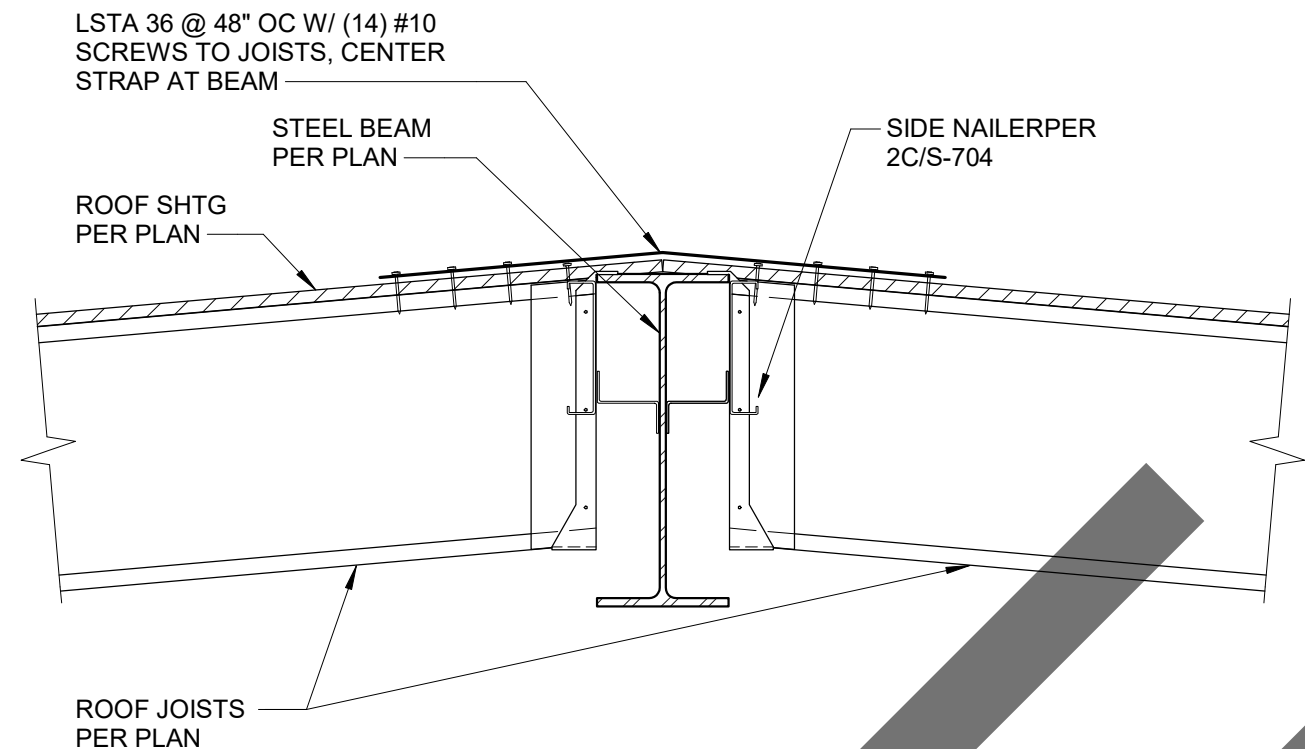
3 TYPICAL DETAIL AT STEEL BEAM
NO SCALE



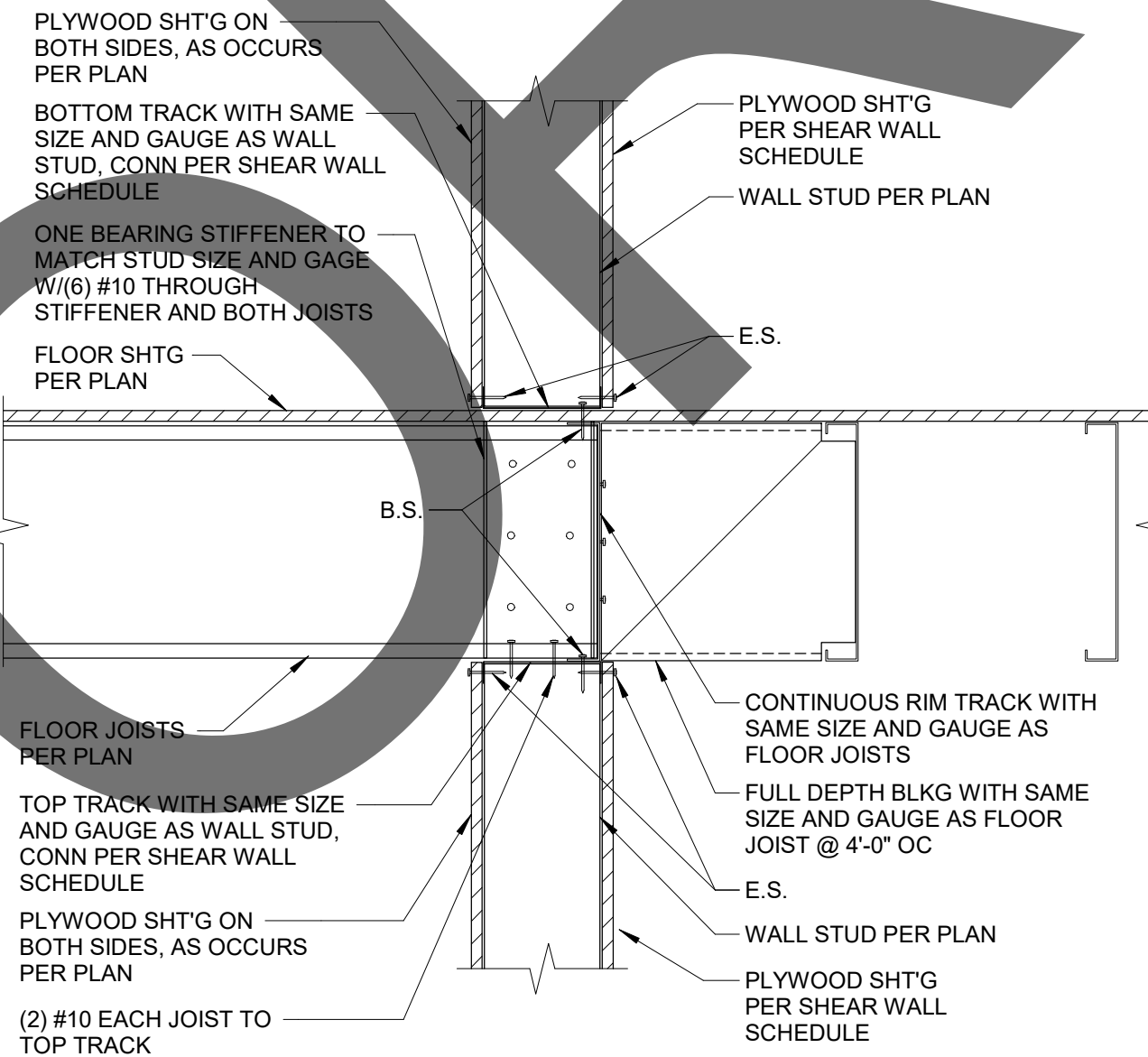
4 TYPICAL DETAIL AT STEEL BEAM
NO SCALE



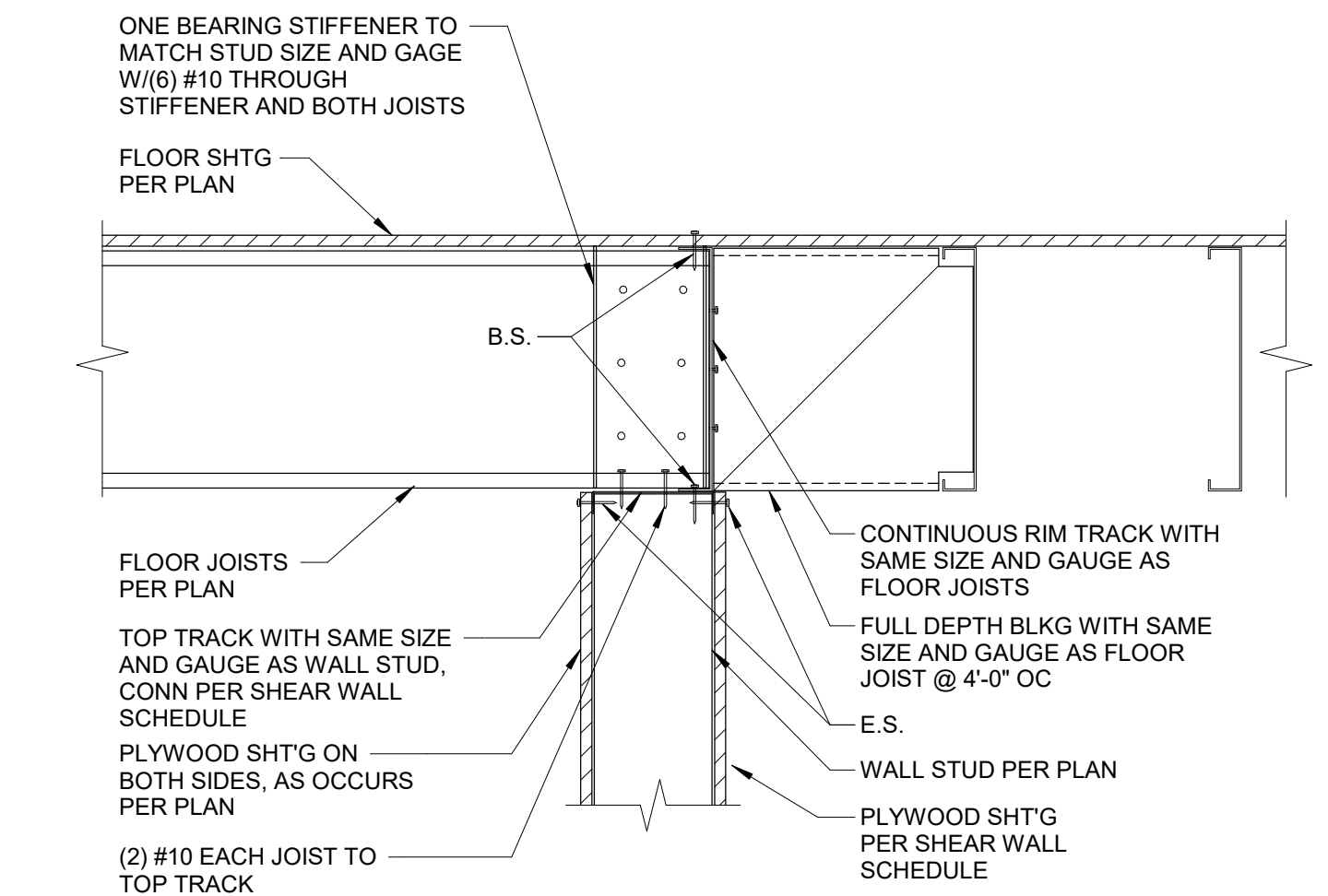
5 DETAIL
NO SCALE



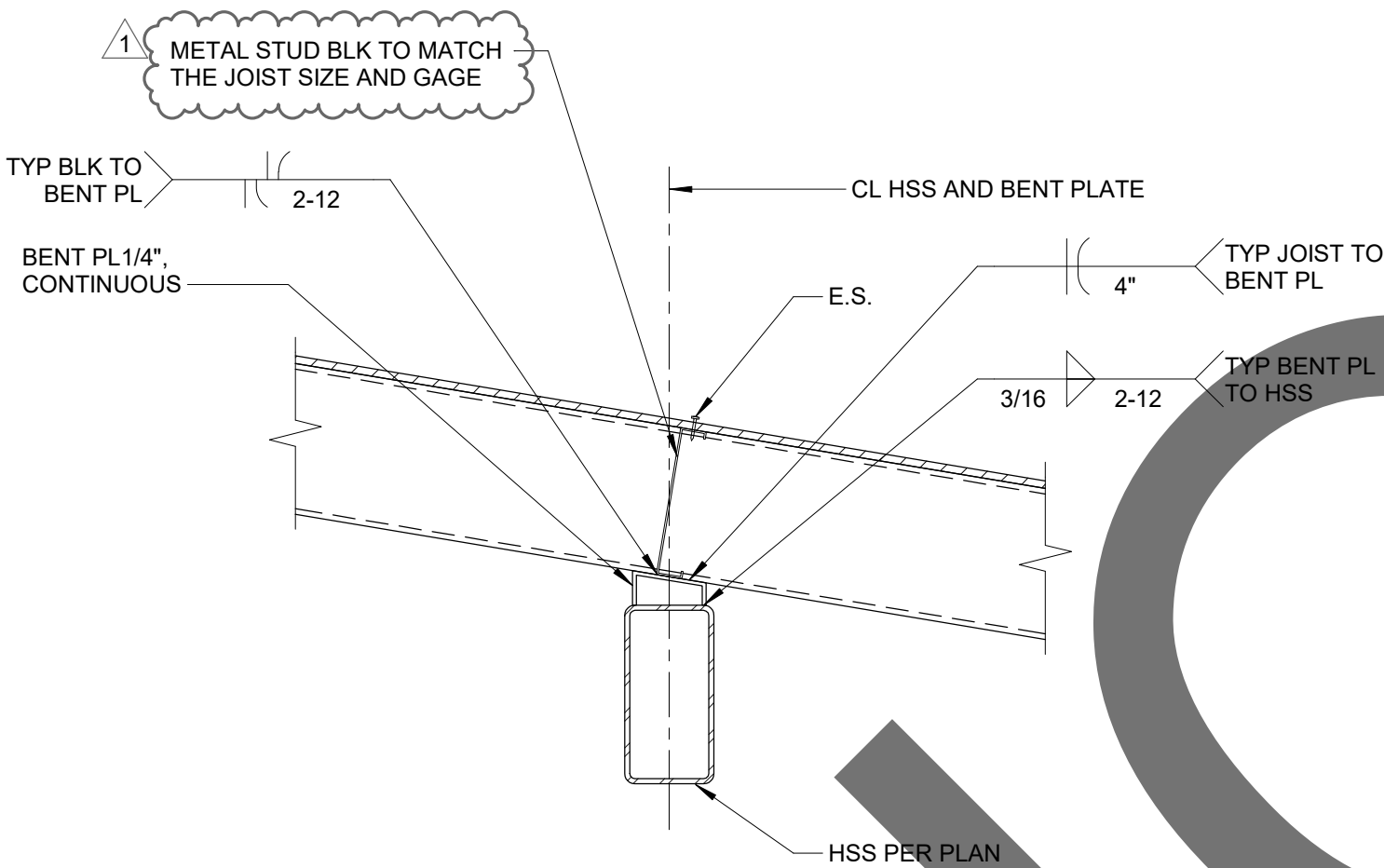
6 TYPICAL DETAIL AT STEEL BEAM
NO SCALE



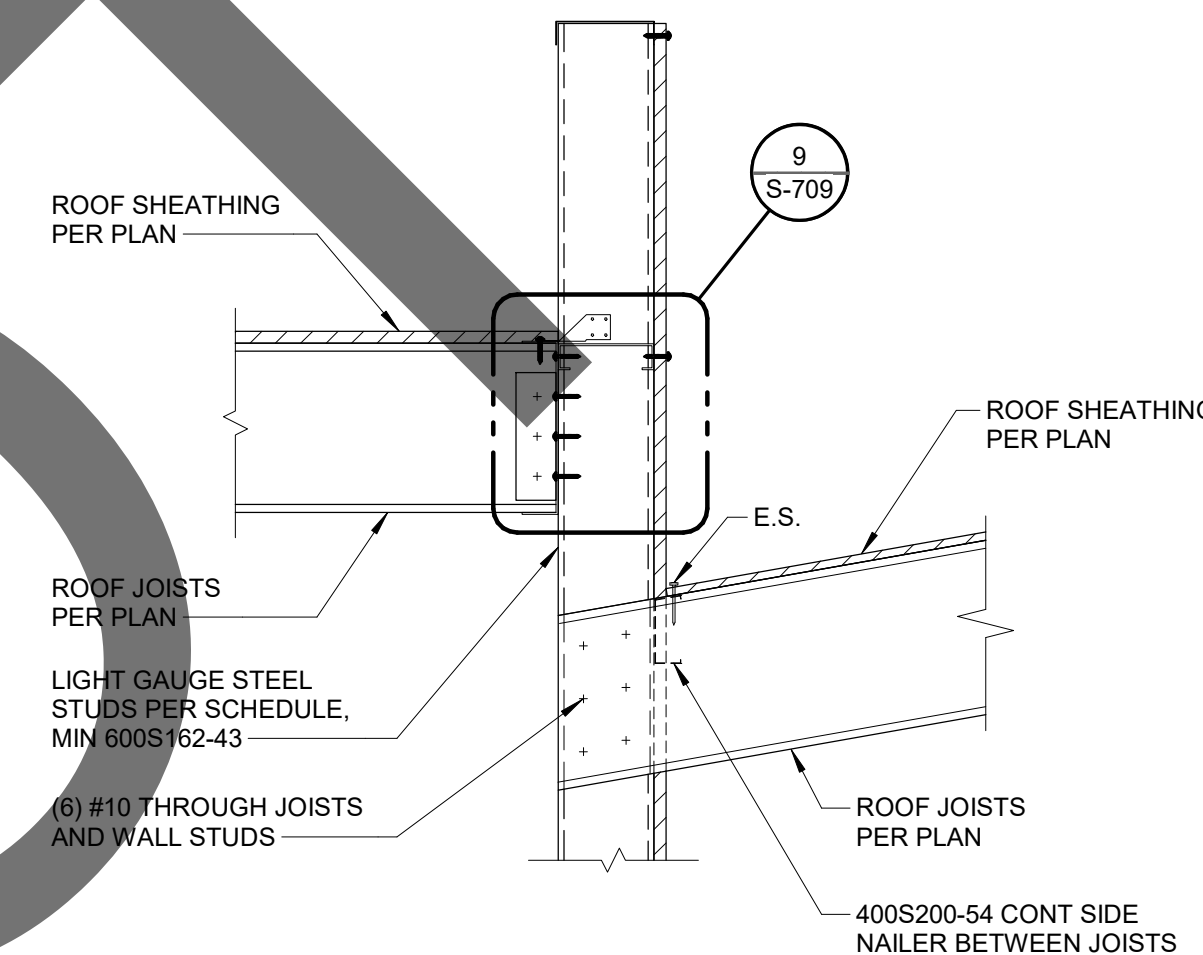
7 DETAIL
1" = 1'-0"



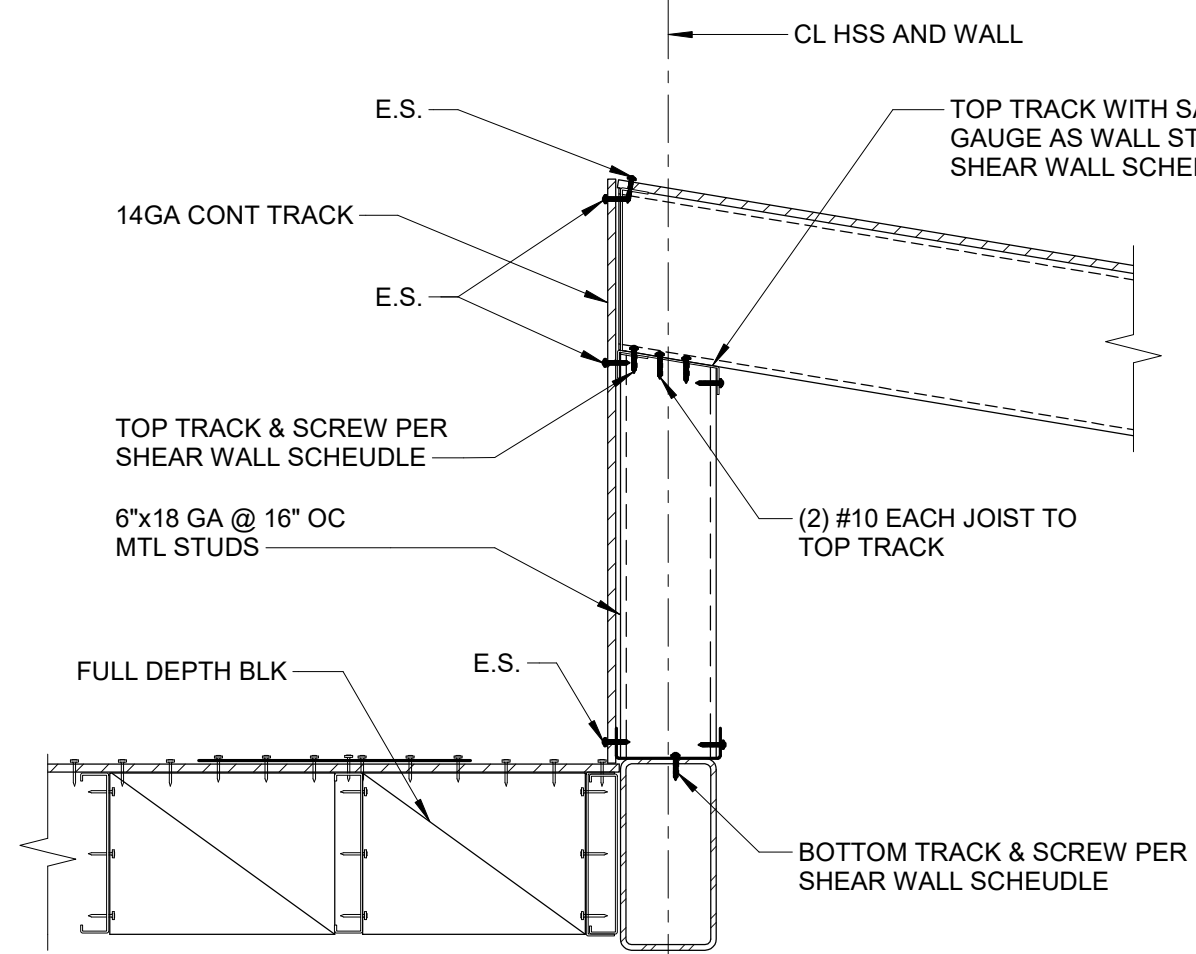
8 DETAIL
1" = 1'-0"



9 TYPICAL BEAM TO ROOF CONNECTION
1" = 1'-0"



10 PARAPET KNEEWALL
NO SCALE

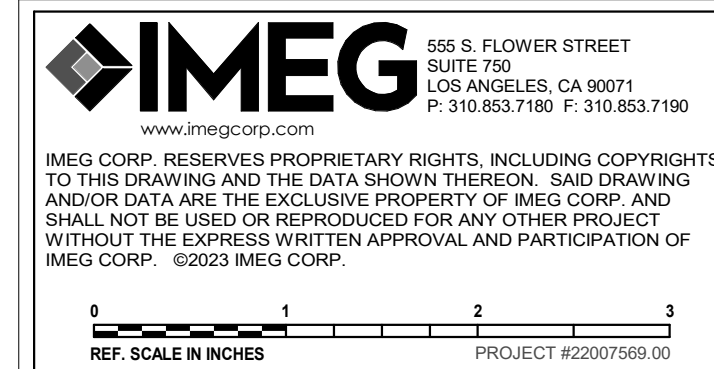


11 DETAIL
1" = 1'-0"

NOTES:
FOR INFORMATION NOT NOTED SEE 2/S-711

NOTE:
1. PLYWOOD SHEATHING TO BE NOTCHED AROUND EACH STUD AS REQUIRED.

FOR INFORMATION NOT NOTED SEE 7/S-711



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REVISIONS/ADDENDA		
#	Date	Comment
1	06/12/24	PLAN CHECK RESUBMITTAL

ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8988

PROJECT INFORMATION	
Project Number:	22007569.00
Drawn By:	HYK
Checked By:	JP
Issue Date:	06/12/2024

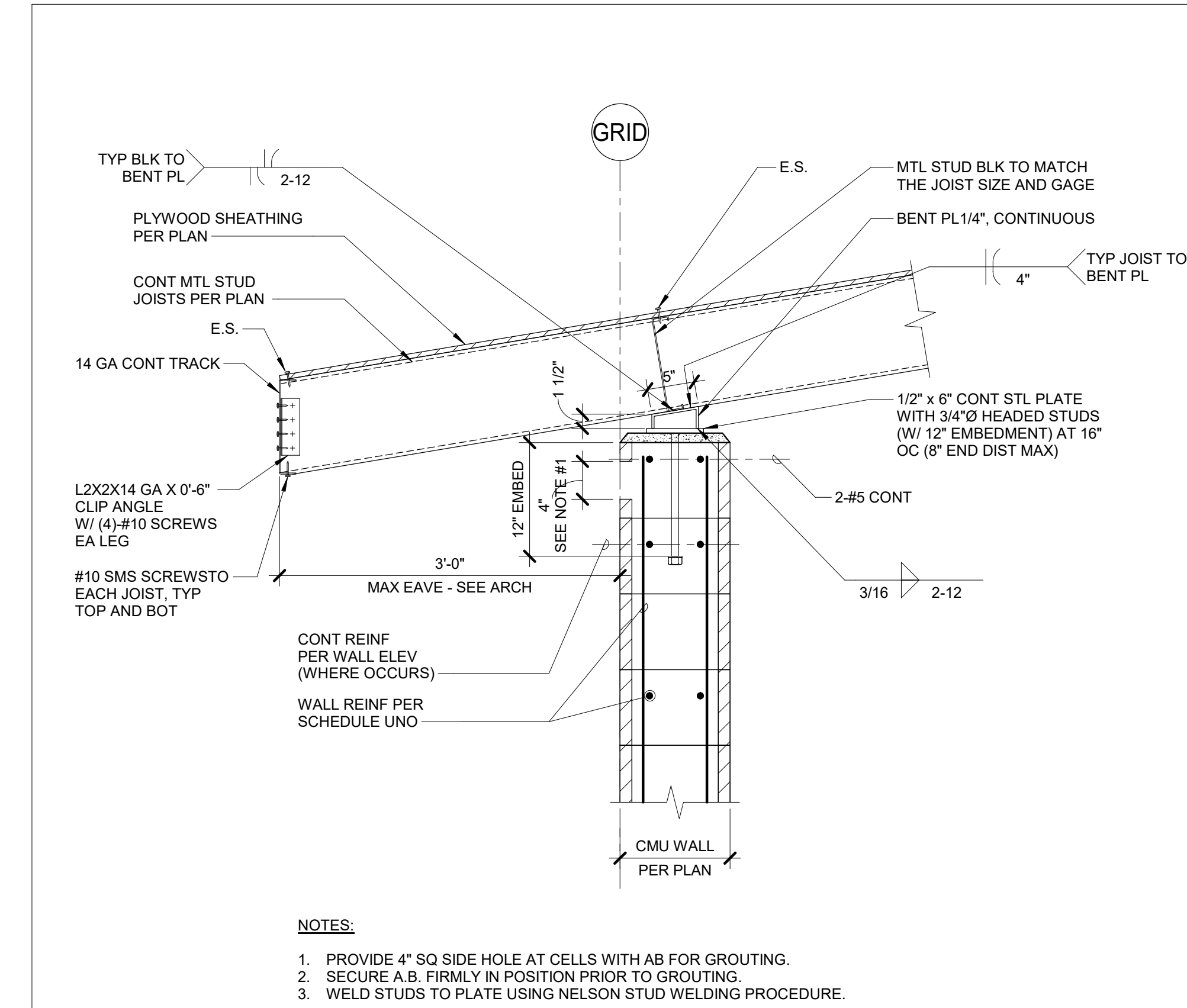
SHEET NAME

TYPICAL METAL
STUD DETAILS

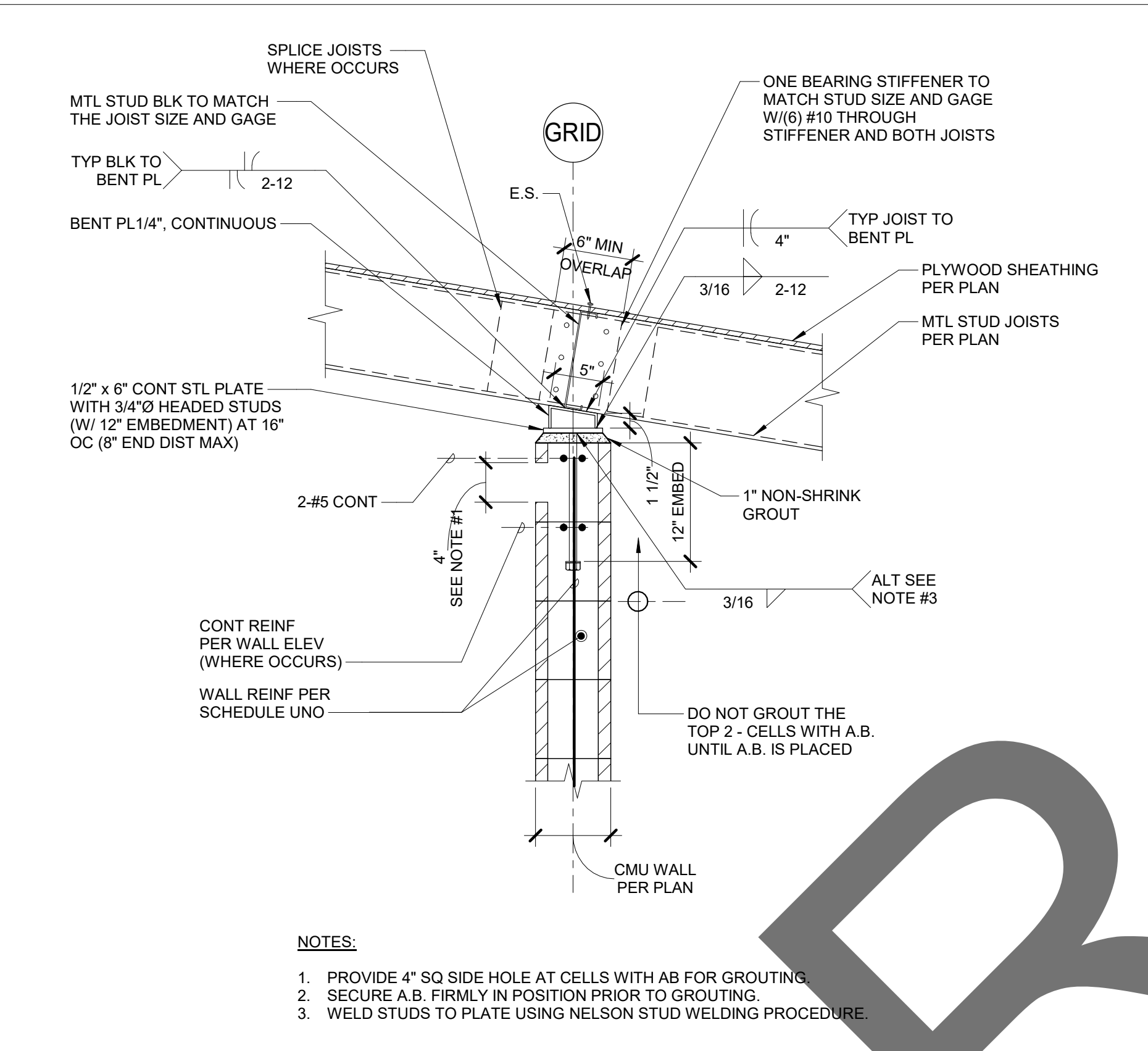
SHEET NUMBER

S-710

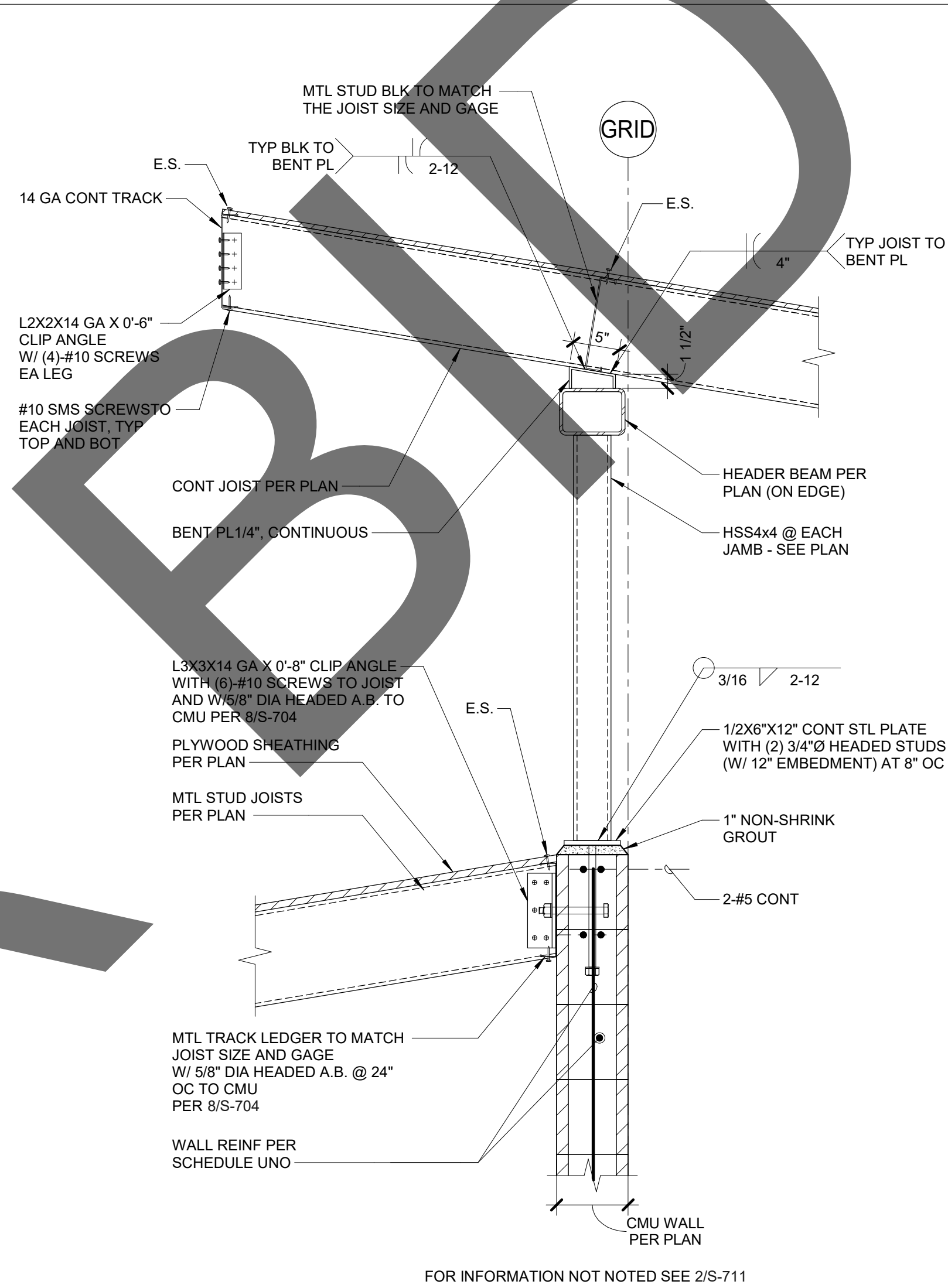
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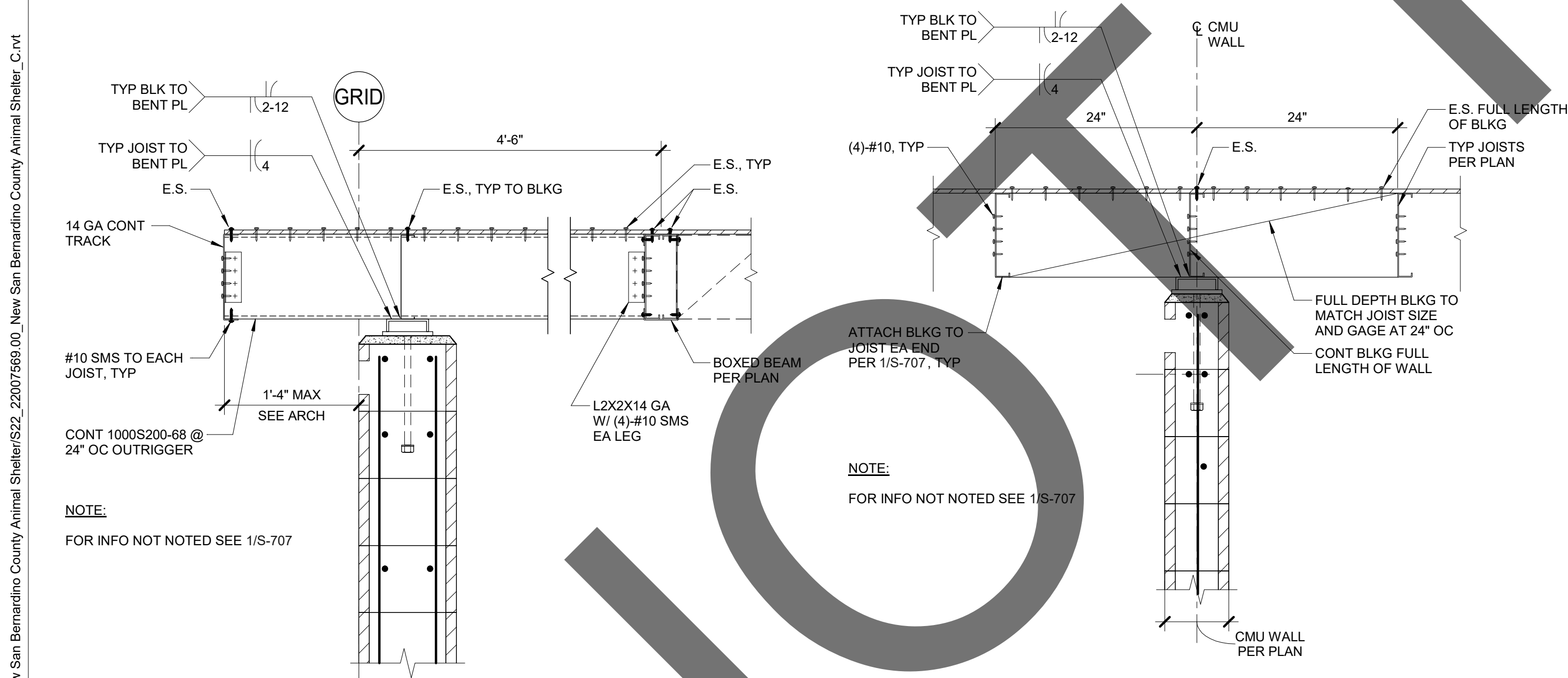
1 TYP EXTERIOR WALL / TO ROOF CONNECTION
1" = 1'-0"



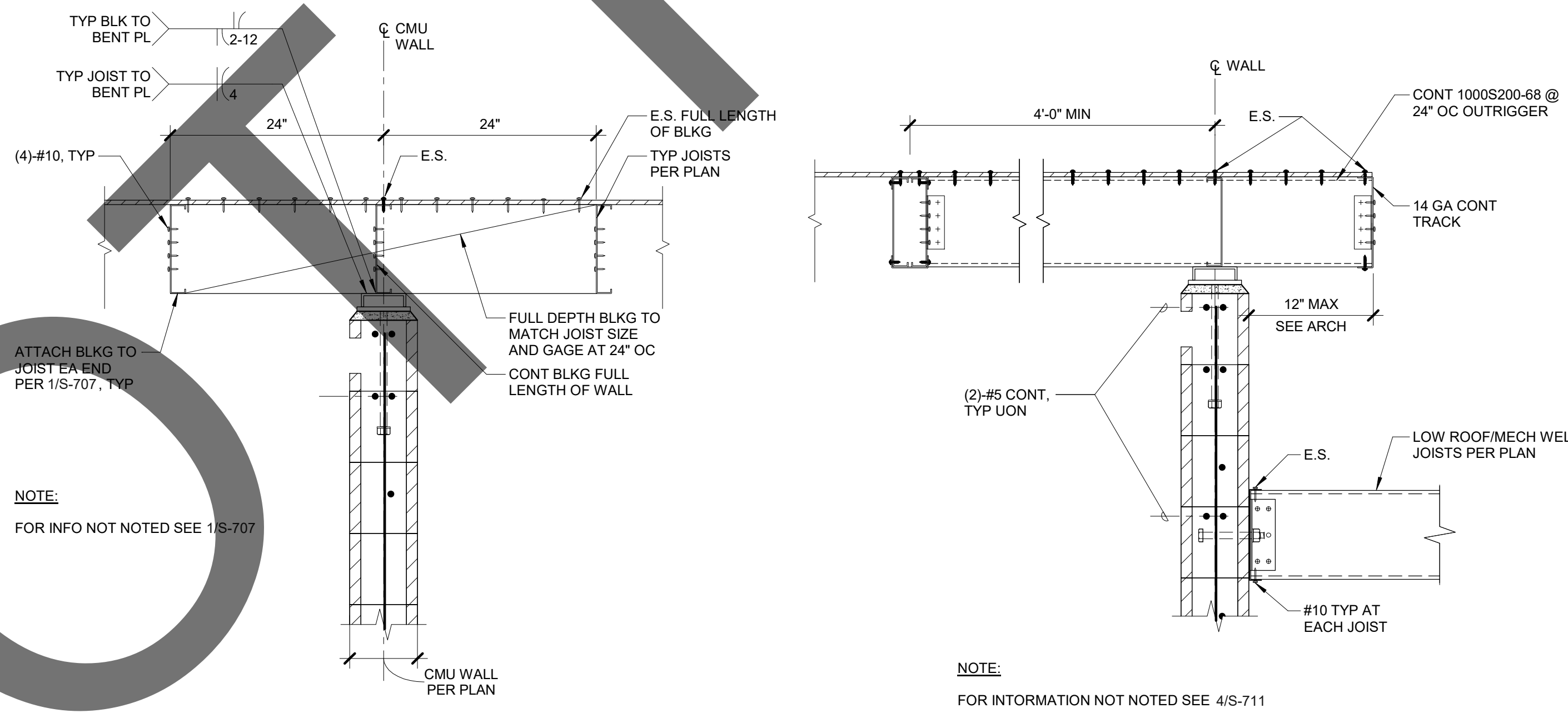
2 TYP INTERIOR WALL / TO ROOF CONNECTION
1" = 1'-0"



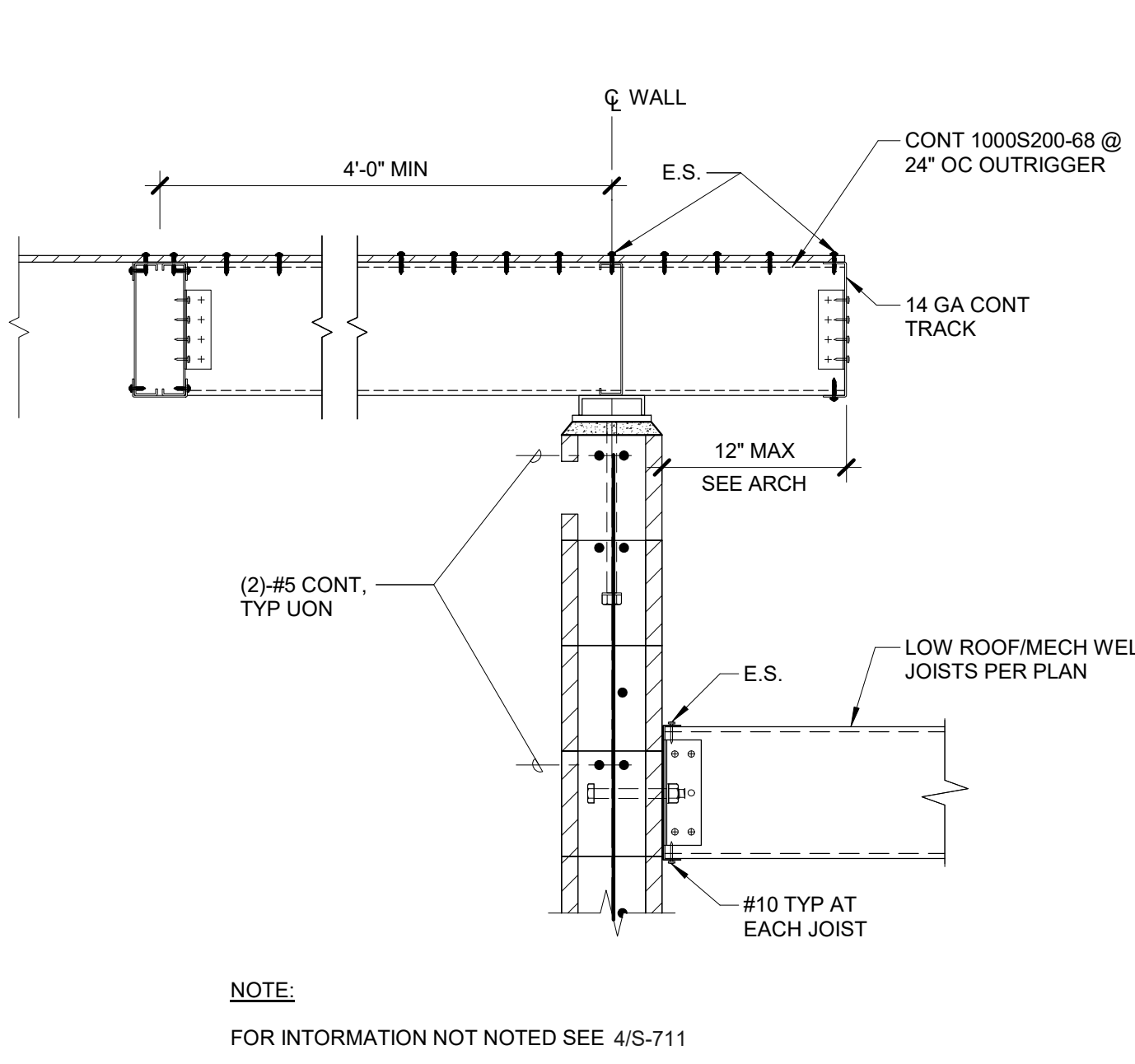
3 TYP SECTION AT CLERESTORY WINDOWS
1" = 1'-0"



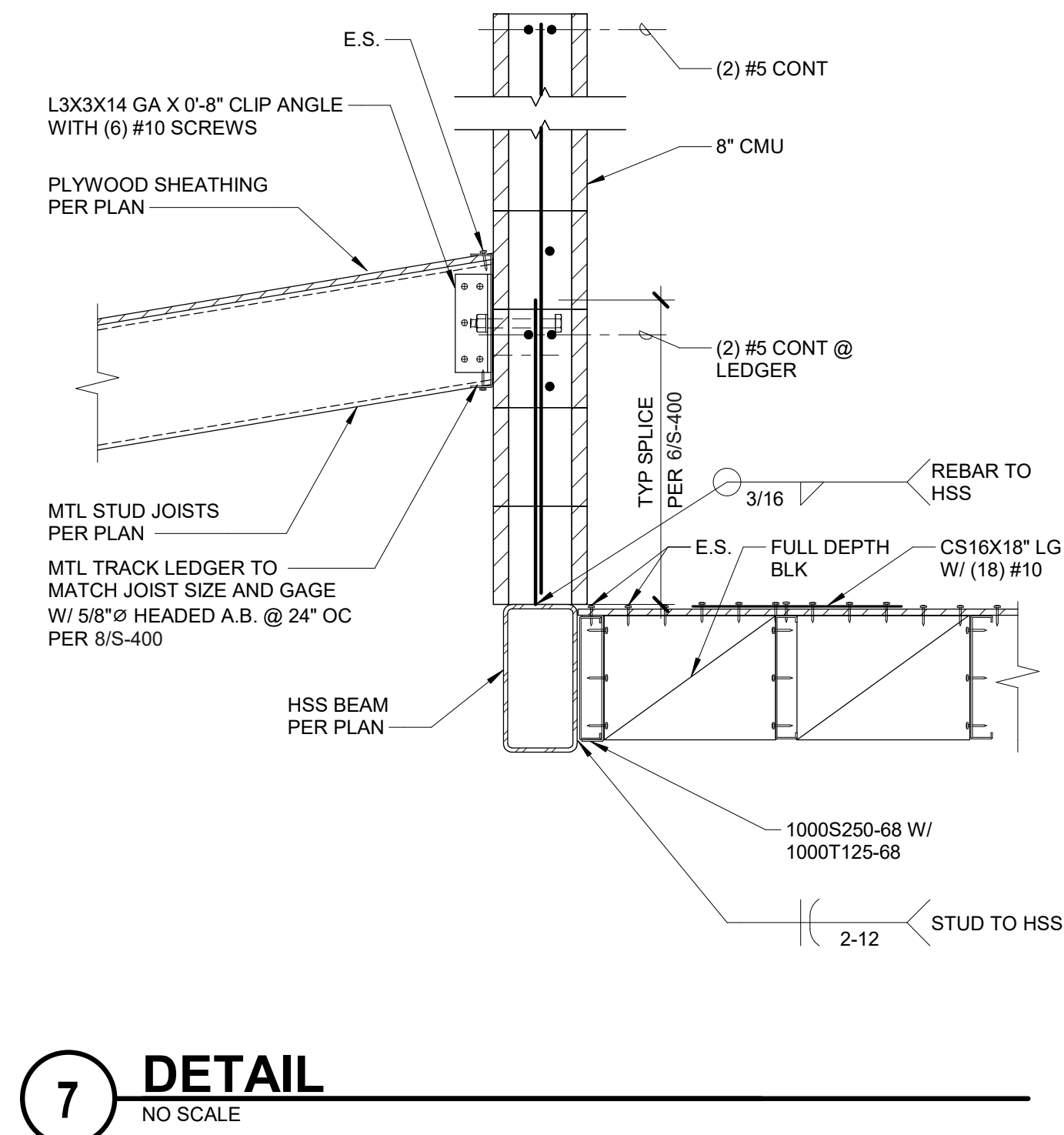
4 EXTERIOR WALL SECTION
1" = 1'-0"



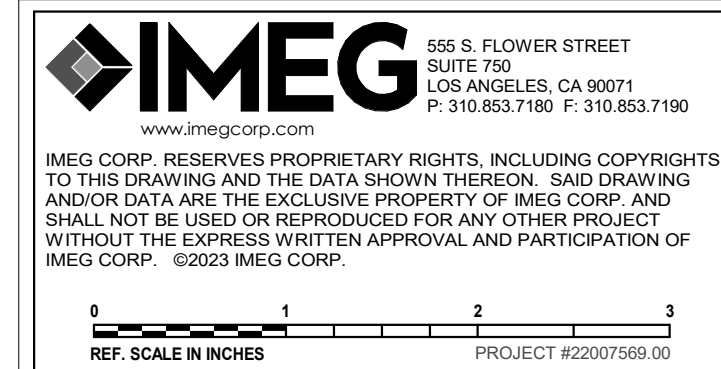
5 TYP INTERIOR WALL / TO ROOF CONNECTION
1" = 1'-0"



6 TYP SECTION AT MECH WELL
1" = 1'-0"



7 DETAIL
NO SCALE



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PHONE: 1-888-818-8988

PROJECT INFORMATION
Project Number: 22007569.00
Drawn By: HYK
Checked By: JP
Issue Date: 06/12/2024

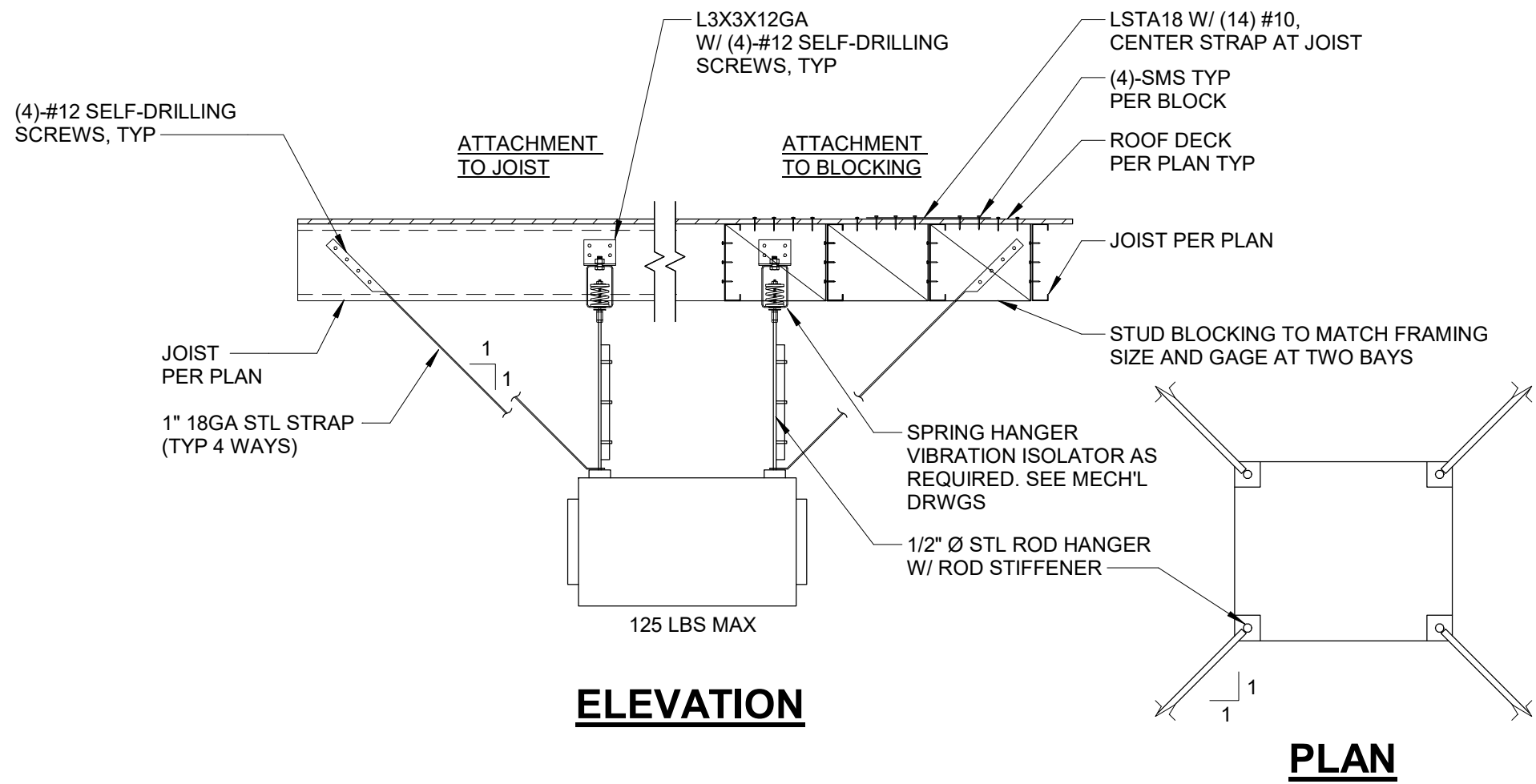
SHEET NAME

TYPICAL FRAMING DETAILS

SHEET NUMBER

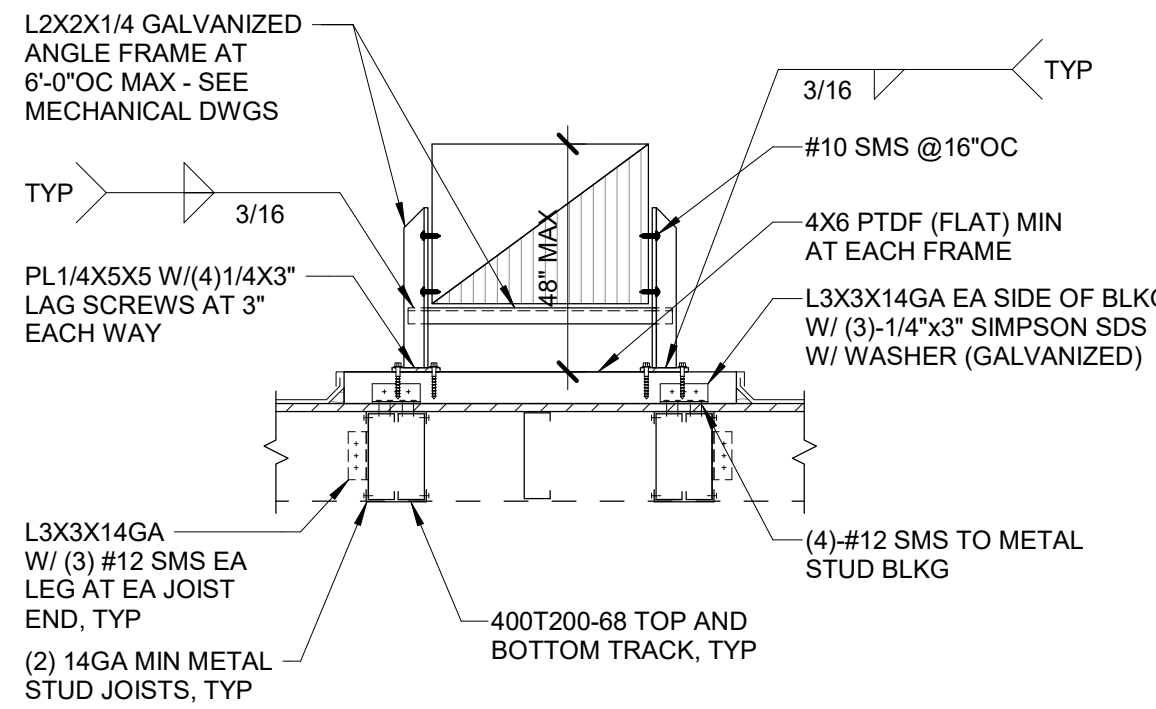
S-711

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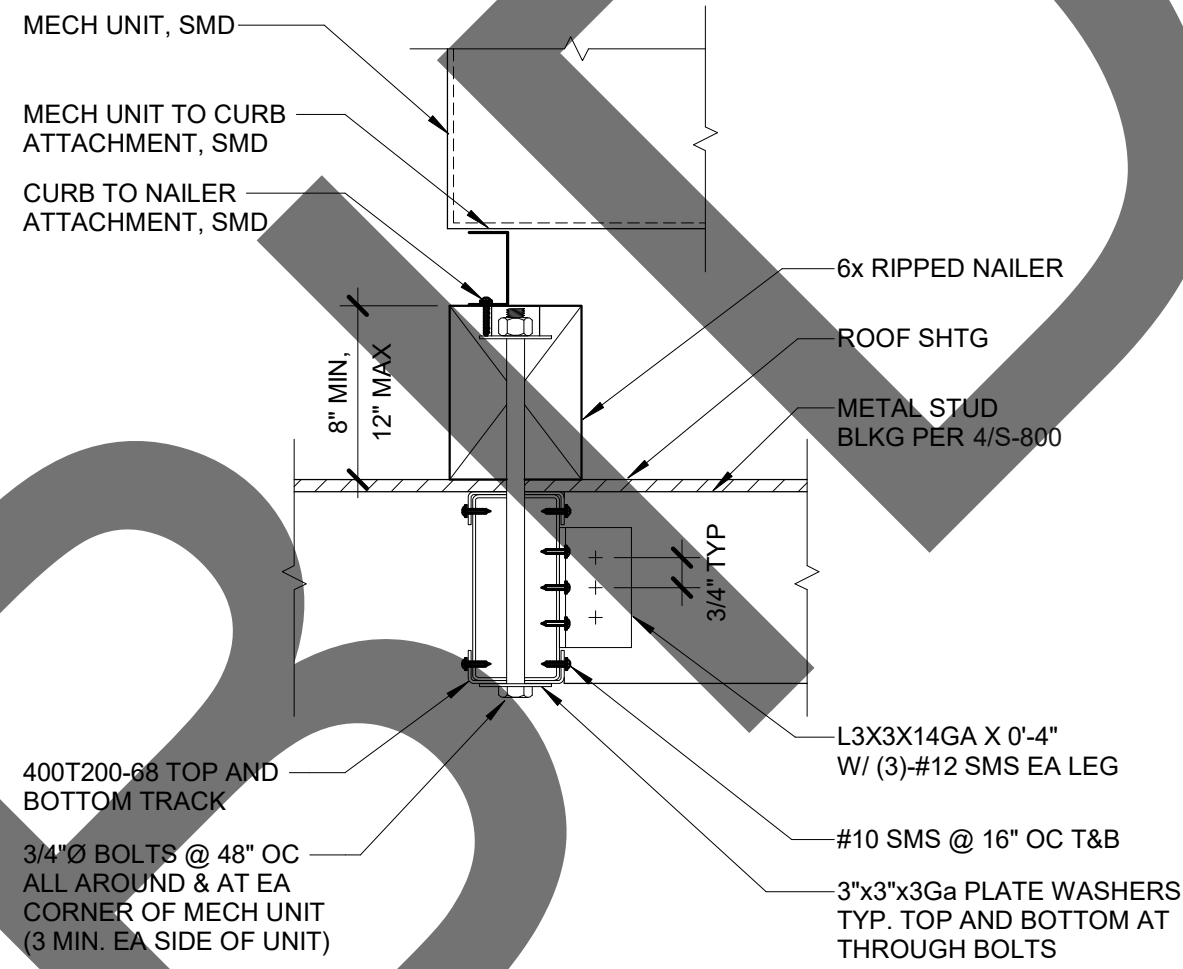
1 TYP MECHANICAL UNIT ANCHORAGE DETAIL (TO ROOF DECK)

NO SCALE



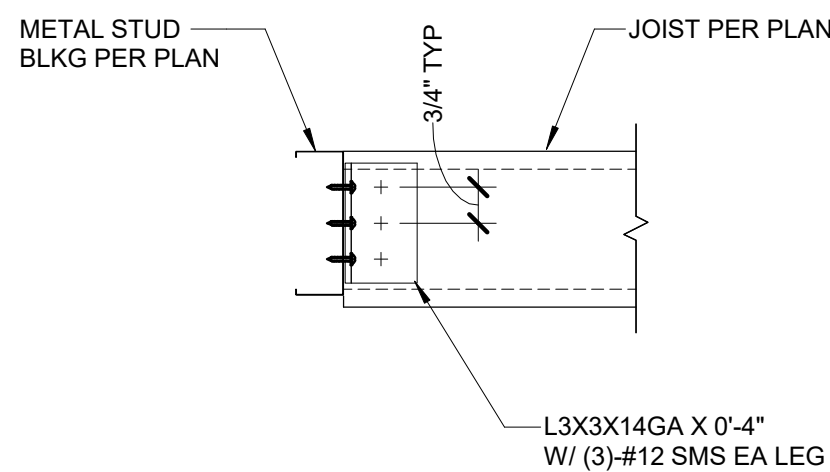
2 DUCT SUPPORT DETAIL

NO SCALE



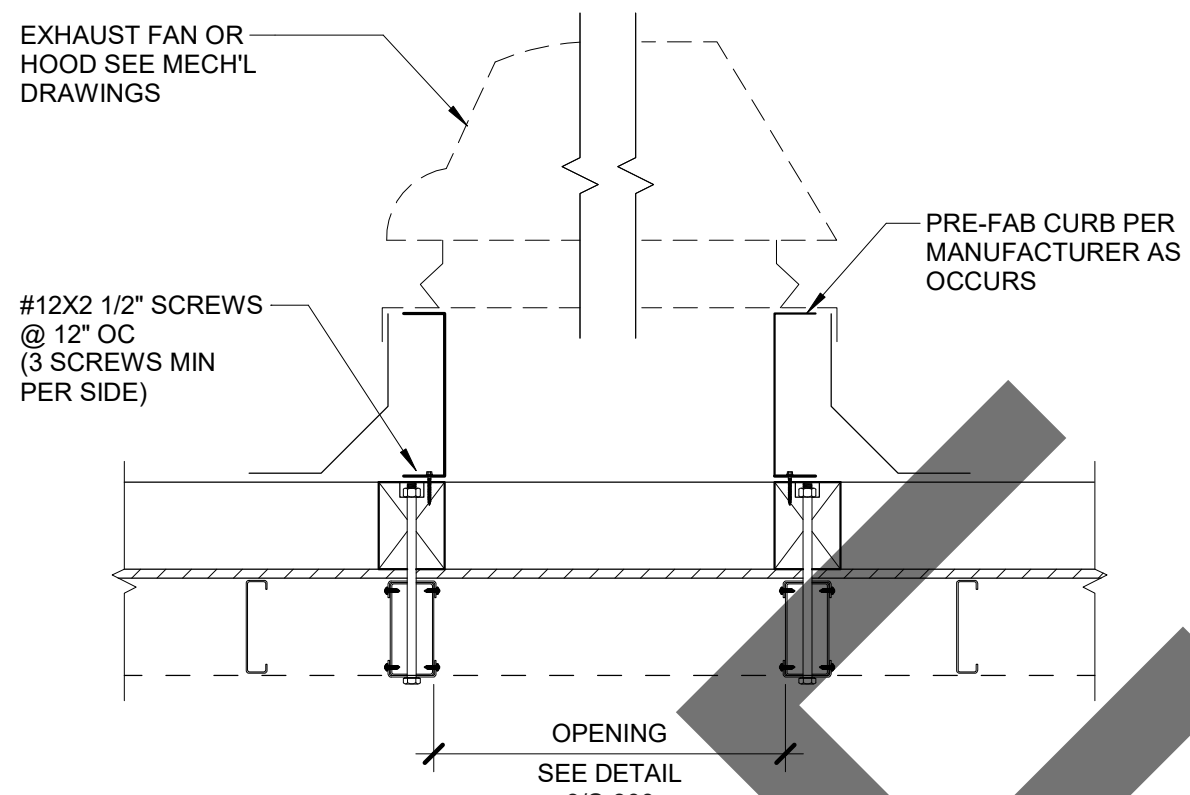
MECH UNIT ATTACHMENT TO ROOF FRAMING

NO SCALE



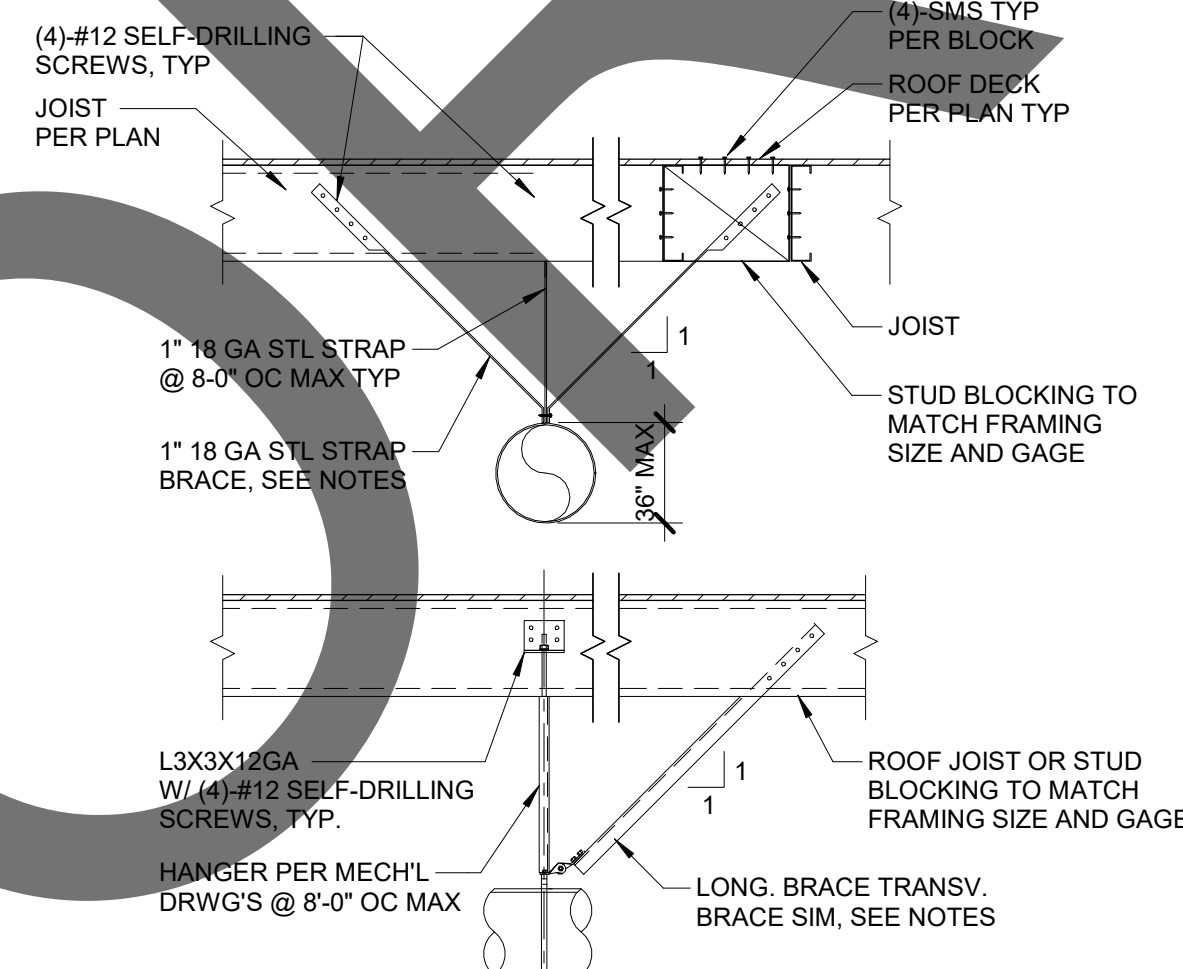
4 METAL STUD JOIST CONNECTION

NO SCALE



5 EXHAUST FAN ANCHORAGE DETAIL

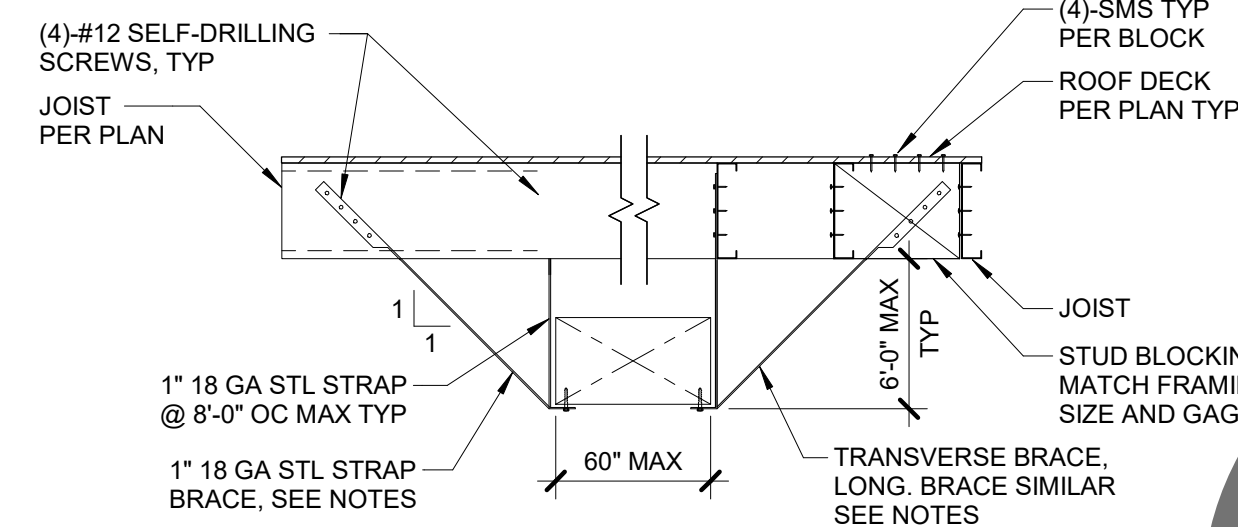
NO SCALE



- NOTES:
- SEE MECH'L DRAWINGS FOR BALANCE OF INFORMATION.
 - PROVIDE TRANSVERSE DIAGONAL BRACE AT 8'-0" O.C. AND LONGITUDINAL DIAGONAL BRACE @ 16'-0" O.C. MAX.

TYP ROUND DUCT ANCHORAGE DETAIL (TO ROOF DECK)

NO SCALE

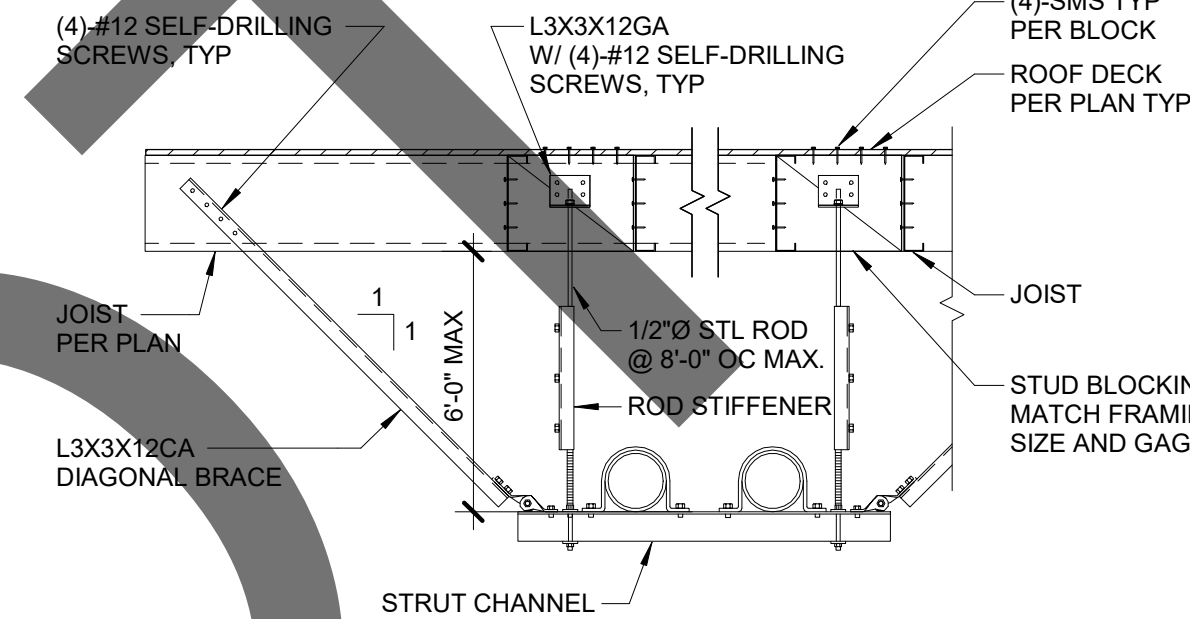


STRAP HANGERS

- NOTES:
- SEE MECH'L DRAWINGS FOR BALANCE OF INFORMATION.
 - PROVIDE TRANSVERSE DIAGONAL BRACE AT 8'-0" O.C. AND LONGITUDINAL DIAGONAL BRACE @ 16'-0" O.C. MAX.

8 TYP RECT. DUCT ANCHORAGE DETAIL (TO ROOF DECK)

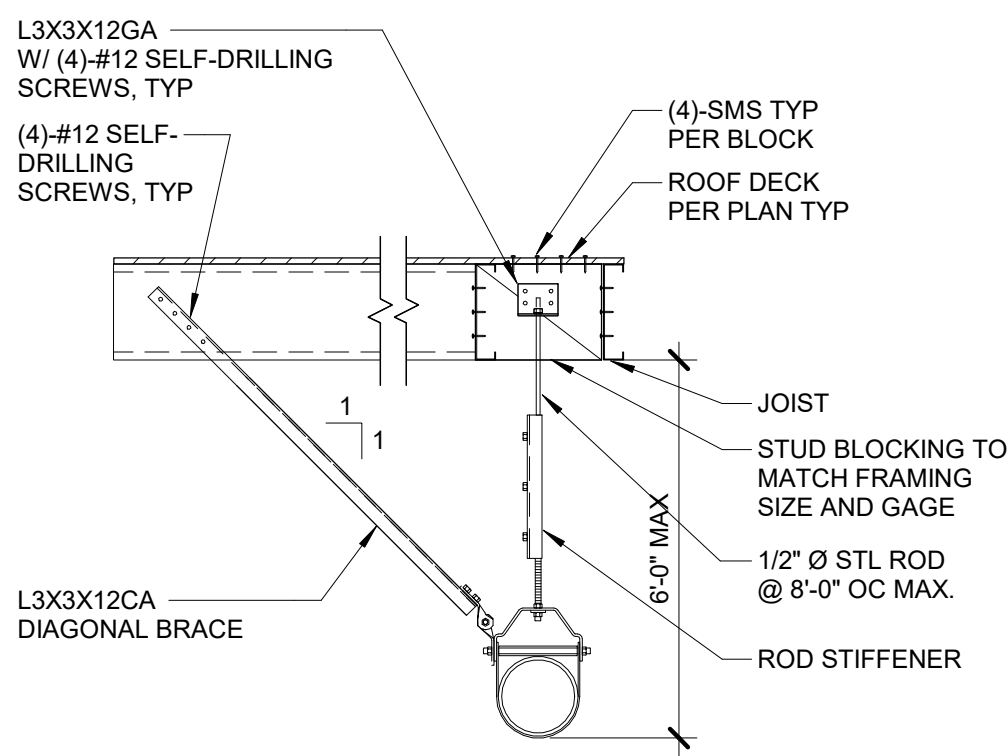
NO SCALE



- NOTES:
- SEE MECH'L DRAWINGS FOR BALANCE OF INFORMATION.
 - PROVIDE TRANSVERSE DIAGONAL BRACE AT EACH HANGER AND LONGITUDINAL DIAGONAL BRACE @ 16'-0" OC MAX.

9 TYP GROUP OF PIPE ANCHORAGE DETAIL (TO ROOF DECK)

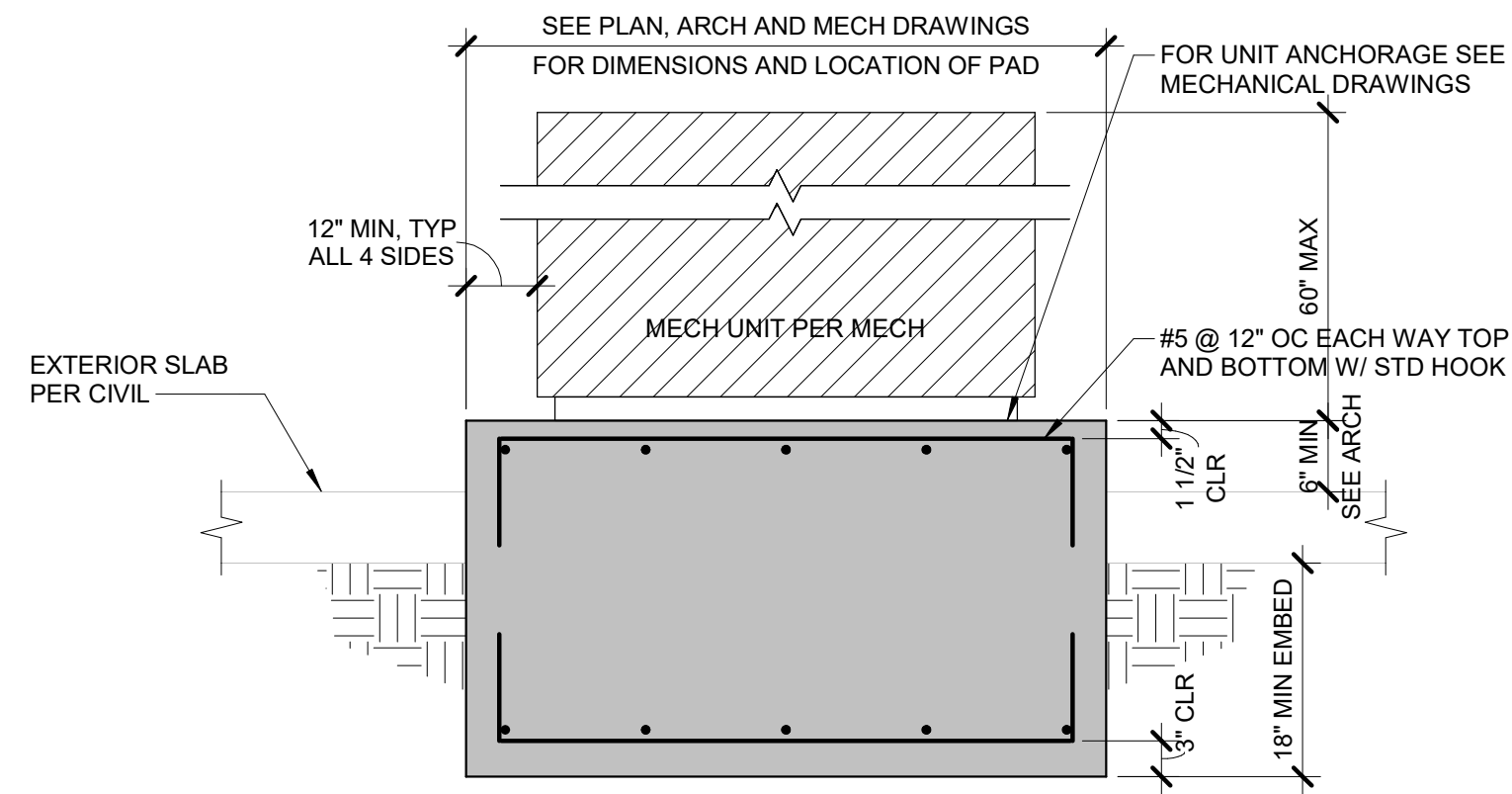
NO SCALE



- NOTES:
- SEE PLUMBING DRAWINGS FOR BALANCE OF INFORMATION.
 - PROVIDE TRANSVERSE DIAGONAL BRACE AT EACH HANGER AND LONGITUDINAL DIAGONAL BRACE @ 16'-0" OC MAX.

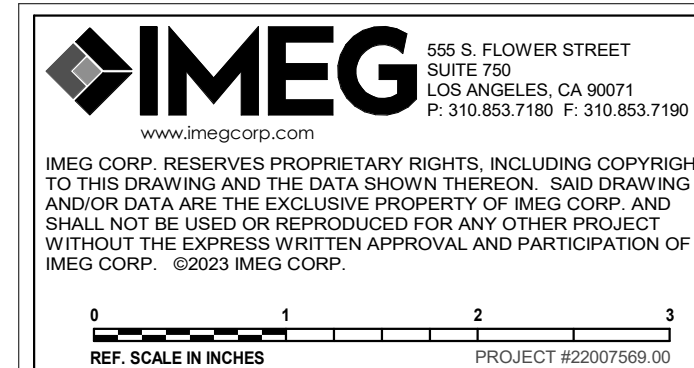
10 TYP SINGLE PIPE ANCHORAGE DETAIL (TO ROOF DECK)

NO SCALE



11 TYPICAL CONCRETE EQUIPMENT PAD DETAIL

3/4" = 1'-0"



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owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment
1	06/12/24	PLAN CHECK RESUBMITTAL

ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-818-8968

PROJECT INFORMATION

Project Number: 22007569.00
Drawn By: HYK
Checked By: JP
Issue Date: 06/12/2024

SHEET NAME

EQUIPMENT ANCHORAGE DETAILS

SHEET NUMBER

S-800

Sheet Of Sheets

NAME

10'-0"

HEIGHT ABOVE PROJECT 0'-0"

LEVEL NAME

INDICATES NOTE USED TO DESCRIBE ADDITIONAL INFORMATION ABOUT WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL

1

INDICATES DIRECTION OF TRUE NORTH

PLAN OR DETAIL NUMBER

PLAN OR DETAIL NAME

VIEW NAME

1/8" = 1'-0"

PLAN OR DETAIL SCALE

SIM

INDICATES SIMILAR DETAIL REFERENCED IN MULTIPLE LOCATIONS

1

DETAIL REFERRED TO BY SECTION CUT

M101

SHEET DETAIL IS LOCATED ON

T101

LINE TYPE AND TAG KEY:

NEW WORK BY THIS CONTRACTOR (WIDE LINE)

NEW

NEW UNDERFLOOR OR UNDERGROUND (LONG DASHED PATTERN)

TAG

UNDERLINED TAG INDICATES OBJECT IS IN-SCOPE. IF NEW, ADDITIONAL INFORMATION IS AVAILABLE IN A SCHEDULE, MATERIAL LIST, OR SYMBOL LIST

INDICATES AN EXISTING SYSTEM'S POINT OF CONNECTION/REMOVAL

CONTRACTOR ABBREVIATION KEY	
ABBR:	DESCRIPTION:
A.V.C.	AUDIO/VISUAL CONTRACTOR
C.C.	CIVIL CONTRACTOR
C.M.	CONSTRUCTION MANAGER
E.C.	ELECTRICAL CONTRACTOR
F.P.C.	FIRE PROTECTION CONTRACTOR
F.S.C.	FOOD SERVICE CONTRACTOR
G.C.	GENERAL CONTRACTOR
M.C.	MECHANICAL CONTRACTOR
P.C.	PLUMBING CONTRACTOR
S.C.	SECURITY CONTRACTOR
T.C.	TECHNOLOGY CONTRACTOR
T.C.C.	TEMPERATURE CONTROLS CONTRACTOR
V.C.	VENTILATION CONTRACTOR

HVAC ABBREVIATION KEY	
ABBR:	DESCRIPTION:
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
C	COMMON
CO	CLEANOUT
CFSD	CONTROL/FIRE/SMOKE DAMPER
DPG (0-2")	DIFFERENTIAL PRESSURE GAUGE (RANGE)
DPS	DIFFERENTIAL PRESSURE SWITCH
EA	EXHAUST/RELIEF AIR
ECFSD	EXISTING CONTROL FIRE SMOKE DAMPER
EFD	EXISTING FIRE DAMPER
EFSD	EXISTING FIRE SMOKE DAMPER
EP	ELECTRICAL TO PNEUMATIC VALVE
ESD	EXISTING SMOKE DAMPER
FD	FIRE DAMPER
FOB	FLAT ON BOTTOM
FOT	FLAT ON TOP
FSD	FIRE/SMOKE DAMPER
MA	MIXED AIR
MV	MIXING VALVE
N.C.	NORMALLY CLOSED
NIC	NOT IN CONTRACT
N.O.	NORMALLY OPEN
OA	OUTSIDE AIR
PS	PRESSURE SWITCH
RA	RETURN AIR
SA	SUPPLY AIR
SCCR	SHORT CIRCUIT CURRENT RATING
SD	SMOKE DAMPER
TAB	TERMINAL AIR BOX
TD	TRANSFER DUCT
TYP	TYPICAL
UC-1	DOOR UNDERCUT BY OTHERS (1" TYPICAL)
UON	UNLESS OTHERWISE NOTED

SYMBOL:

DESCRIPTION:

NOT ALL SYMBOLS MAY APPLY.

DIRECTION OF AIR FLOW

FLEXIBLE DUCT

MANUAL VOLUME DAMPER

RISE IN DIRECTION OF AIR FLOW

DROP IN DIRECTION OF AIR FLOW

DUCT CAP

DUCT DOWN

DUCT UP

SUPPLY/OUTSIDE AIR DUCT SECTION

RETURN AIR DUCT SECTION

EXHAUST/RELIEF AIR DUCT SECTION

4-WAY DIFFUSER WITH BLANKOFF IN ONE DIRECTION

AIR TERMINAL PROPERTIES SYMBOL
NECK SIZE/CFM

TERMINAL AIR BOX (REFER TO SCHEDULE)

TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)

FAN POWERED TERMINAL AIR BOX w/REHEAT COIL (REFER TO SCHEDULE)

HUMIDIFIER

OPPOSED BLADE DAMPER (REFER TO SCHEDULE)

PARALLEL BLADE DAMPER (REFER TO SCHEDULE)

DIFFERENTIAL PRESSURE SENSOR

HUMIDISTAT SENSOR

HUMIDISTAT / SENSOR (DUCT MOUNTED)

CARBON MONOXIDE SENSOR

CARBON DIOXIDE SENSOR

OCCUPANCY SENSOR

PRESSURE SENSOR/MONITOR

PRESSURE SENSOR (DUCT MOUNTED)

THERMOSTAT/SENSOR

TEMPERATURE SENSOR (DUCT MOUNTED)

THERMOSTAT/SENSOR WITH HEAVY DUTY ENCLOSURE

TEMPERATURE SENSOR WITH WELL

THERMOMETER WITH WELL (DIAL TYPE)

THERMOMETER WITH WELL (FILLED TYPE)

AIRFLOW MEASUREMENT SYMBOL
XX - AHU SYMBOL
Y - SEQUENTIAL NUMBER

20" MAX.

48" MAX.

INSTALL ABOVE COUNTER DEVICE AT 44" ABOVE FINISHED FLOOR.

20"-25" MAX.

44" MAX.

INSTALL ABOVE COUNTER DEVICE AT 40" ABOVE FINISHED FLOOR.

15" MIN.

48" MAX.

INSTALL DEVICE AT 18" ABOVE FINISHED FLOOR.

10" MAX.

48" MAX.

INSTALL DEVICE AT 44" ABOVE FINISHED FLOOR.

10"-24" MAX.

46" MAX.

INSTALL DEVICE AT 42" ABOVE FINISHED FLOOR.

ADA GUIDELINES - FRONT ACCESS

ADA GUIDELINES - SIDE ACCESS

ADA STANDARDS FOR ACCESSIBLE DESIGN

MECHANICAL GENERAL NOTES:

THESE NOTES APPLY TO ALL MECHANICAL SHEETS AND TRADES, INCLUDING BUT NOT LIMITED TO, FIRE PROTECTION, PLUMBING, MEDICAL GAS, VENTILATION, PIPING AND TEMPERATURE CONTROL.

- DRAWINGS SHOWING LOCATIONS OF EQUIPMENT, DUCTWORK, PIPING, ETC. ARE DIAGRAMMATIC AND MAY NOT ALWAYS REFLECT EXACT INSTALLATION CONDITIONS. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF DUCTWORK, PIPING, EQUIPMENT, ETC., AND MAY NOT INCLUDE ALL OFFSETS AND FITTINGS REQUIRED FOR COMPLETE INSTALLATION. THE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS ACTUAL BUILDING CONSTRUCTION AND THE WORK OF OTHERS WILL PERMIT.
- DO NOT SCALE DRAWINGS. VERIFY ALL DIMENSIONS AND CLEARANCES FROM ARCHITECTURAL, STRUCTURAL, SUBMITTALS, AND OTHER APPROPRIATE DRAWINGS OR PHYSICALLY AT SITE. REVIEW ALL DRAWINGS, INCLUDING THOSE OF OTHER TRADES.
- COORDINATE ALL WORK WITH ALL OTHER TRADES PRIOR TO INSTALLATION TO PROVIDE CLEARANCES REQUIRED FOR OPERATION, MAINTENANCE, CODE COMPLIANCE, AND TO VERIFY NON-INTERFERENCE WITH OTHER WORK. DO NOT FABRICATE PRIOR TO VERIFICATION OF NECESSARY CLEARANCES FOR ALL TRADES. BRING ANY INTERFERENCES OR CONFLICTS TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH FABRICATION OR EQUIPMENT ORDERS.
- REVIEW SPACE REQUIREMENTS OF EQUIPMENT SPECIFIED OR SUBSTITUTED AND MAKE REASONABLE ACCOMMODATIONS IN LAYOUT AND POSITIONING TO PROVIDE PROPER ACCESS.
- ANY CHANGES REQUIRED TO ELIMINATE CONFLICTS OR THAT RESULT FROM A FAILURE TO COORDINATE SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL COST OR EXPENSE TO OTHERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR EQUIPMENT PROPOSED THAT DIFFERS FROM THE BASIS OF DESIGN.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN, ELECTRICAL TECHNOLOGY AUDIO/VISUAL, AND OTHER MECHANICAL PLANS FOR EXACT LOCATIONS OF ALL CEILING MOUNTED DEVICES, OTHER THAN SPRINKLERS.
- EACH CONTRACTOR IS RESPONSIBLE FOR DAMAGE CAUSED BY THEIR ACTIONS TO WALLS, FLOORS, CEILINGS, AND ROOFS. THE CONTRACTOR WHOSE WORK CAUSES DAMAGE IS RESPONSIBLE FOR PATCHING TO MATCH ORIGINAL CONSTRUCTION, FIRE RATING, AND FINISH.
- IN AREAS WITH DRYWALL, CEILINGS COORDINATE LOCATIONS OF ACCESS PANELS WITH THE GC FOR ACCESS TO VALVES, DUCTWORK ACCESSORIES, DAMPERS, ETC. COORDINATE PANEL TYPE AND COLOR WITH ARCHITECT. NOTIFY THE GC OF THE REQUIRED ACCESS PANELS PRIOR TO BIDDING.
- SEAL ALL FLOOR, WALL, AND ROOF PENETRATIONS AIRTIGHT WHERE CONDUITS, PIPING, AND DUCTS PENETRATE. PENETRATIONS THROUGH EXTERIOR WALLS AND ROOF SHALL BE SEALED AIRTIGHT WITH WATERPROOFING MATERIALS RECOMMENDED BY MANUFACTURER FOR OUTDOOR USE.
- CAULK ALL PIPE AND DUCT PENETRATIONS OF FULL HEIGHT NON-FIRE RATED WALL, PARTITION, FLOOR, AND ROOF ASSEMBLIES. THIS IS ESSENTIAL TO PREVENT NOISE TRANSMISSION FROM ONE ROOM TO ANOTHER AND TO PROVIDE THE DESIRED NC LEVELS WITHIN ROOMS.
- WHERE PIPES AND DUCTS ARE SHOWN TO PENETRATE FLOORS, PROVIDE SLEEVED OPENINGS WITH THE TOP EDGE RAISED ABOVE FLOOR SURFACE IN ACCORDANCE WITH ALL RELEVANT SPEC SECTIONS. SEAL SLEEVE PERIMETER TO BE WATERTIGHT.
- EQUIPMENT SIZES AND SERVICE CLEARANCE REQUIREMENTS VARY AMONG DIFFERENT MANUFACTURERS. CONSULT APPROVED SHOP DRAWINGS FOR EQUIPMENT SIZES AND REQUIRED SERVICE CLEARANCES. COORDINATE WITH LAYOUT OF EQUIPMENT PADS, PIPING, DUCTWORK, ETC.
- DO NOT BLOCK TUBE/PULL OR EQUIPMENT SERVICE CLEARANCES.
- MAINTAIN A MINIMUM WORKING CLEARANCE OF 3'-6" IN FRONT OF ALL ELECTRICAL EQUIPMENT REQUIRING MAINTENANCE, INSPECTION, AND TESTING INCLUDING BUT NOT LIMITED TO PANELS, DISTRIBUTION PANELS, SWITCHBOARDS, MOTOR CONTROL CENTERS, TRANSFORMERS, EQUIPMENT DISCONNECTS AND STARTERS.
- MAINTAIN THE DEDICATED ELECTRICAL EQUIPMENT SPACE DEFINED BY THE WIDTH / DEPTH OF ELECTRICAL EQUIPMENT MEASURED FROM THE FLOOR TO A HEIGHT 6'-0" ABOVE THE EQUIPMENT OR THE STRUCTURAL CEILING, WHICHEVER IS LOWER. SYSTEMS FOREIGN TO THE ELECTRICAL DISTRIBUTION SYSTEM ARE NOT ALLOWED IN THE DEDICATED ELECTRICAL SPACE INCLUDING: DUCTWORK, PIPING, ETC.
- PROVIDE CONCRETE EQUIPMENT PAD FOR ALL FLOOR MOUNTED EQUIPMENT. PAD SHALL EXTEND MINIMUM 6" BEYOND ALL SIDES OF EQUIPMENT.
- DO NOT SUPPORT EQUIPMENT, PIPING, OR DUCTWORK FROM METAL DECKING OR OTHER NON-STRUCTURAL BUILDING ELEMENTS. ANCHORS EMBEDDED IN CONCRETE SHALL BE CRACKED CONCRETE APPROVED IN ACCORDANCE WITH SPECIFICATIONS.

UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO A TERMINAL AIR BOX (TAB) SHALL MATCH THE INLET SIZE UNLESS THE BRANCH IS GREATER THAN 6 FEET IN LENGTH, IN WHICH CASE THE BRANCH DUCT SHALL BE SIZED AT A PRESSURE DROP OF 0.07" W.C. PER 100' OF DUCTWORK.

UNLESS NOTED OTHERWISE, THE SIZE OF EACH BRANCH DUCT TO AN AIR TERMINAL SHALL MATCH THE INLET SIZE.

ALIGN TEMPERATURE SENSORS WITH LIGHT SWITCHES AND WHEN IN CLOSE PROXIMITY TO EACH OTHER.

PROVIDE ACCESS DOORS AT ALL DUCT MOUNTED EQUIPMENT.

EXISTING AIR INLET AND OUTLET CFM SHOWN ON DRAWINGS ARE FROM EXISTING DRAWINGS, AND ARE FOR REFERENCE ONLY. CONTRACTOR SHALL USE PRE-BALANCE VALUES, AND NOT EXISTING CFM SHOWN ON DRAWINGS.

CONTRACTOR MAY REUSE PORTIONS OF EXISTING DUCT PROVIDED SIZES AND PRESSURE CLASSES ARE CORRECT, DUCT IS THOROUGHLY CLEANED AND FREE OF DEFECTS, AND ALL TRANSVERSE JOINTS, LONGITUDINAL SEAMS, AND DUCT WALL PENETRATIONS ARE SEALED AS SPECIFIED FOR NEW DUCTWORK.

APPLICABLE CODES AND STANDARDS:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 1

2022 CALIFORNIA BUILDING CODE (CBC)
CALIFORNIA CODE OF REGULATIONS TITLE 24, PART 2
(2021 INTERNATIONAL BUILDING CODE (IBC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ELECTRICAL CODE (CEC)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 3
(2020 NATIONAL ELECTRICAL CODE (NEC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA ENERGY CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 6

2022 CALIFORNIA FIRE CODE (CFC)
CALIFORNIA CODES OF REGULATIONS (CCR) TITLE 24, PART 9
(2021 INTERNATIONAL FIRE CODE (IFC) W/ 2022 CALIFORNIA AMENDMENTS)

2022 CALIFORNIA EXISTING BUILDING CODE
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, PART 10
(2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC))

2022 CALIFORNIA REFERENCES STANDARDS CODE
CALIFORNIA DOE OF REGULATIONS (CCR) TITLE 24, PART 12

AMERICANS WITH DISABILITIES ACT (ADA)
TITLE II - ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (ADAG)
1990 STATE FIRE MARSHAL REGULATIONS AND AMENDMENTS TO-DATE

CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24, CALIFORNIA STATE
ACCESSIBILITY STANDARDS CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 19

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE (CAL GREEN)
CALIFORNIA CODE OF REGULATIONS (CCR) TITLE 24 PART 11

TAB POST-CONSTRUCTION NOTES:

- AFTER CONSTRUCTION ACTIVITIES ARE COMPLETE, TESTING, ADJUSTING (TAB) AND BALANCING CONTRACTOR SHALL REBALANCE AIR HANDLING UNITS AND EXHAUST FANS AS REQUIRED TO ACHIEVE THE NEW AIRFLOW VALUES SHOWN ON THE CONSTRUCTION DRAWINGS.
- AREAS SERVED BY THIS EQUIPMENT WHICH WERE NOT RENOVATED SHALL BE RE-BALANCED TO THE AIRFLOW RATES MEASURED BEFORE THE RENOVATION OCCURRED (REFER TO THE FINAL PRE-DEMOLITION REPORT).
- IF DUCT TRAVERSE LOCATION AS MARKED ON THE DRAWINGS IS INACCESSIBLE FOR MEASUREMENT, THE TAB CONTRACTOR SHALL PERFORM THE TRAVERSE AT AN ALTERNATE LOCATION OR SHALL TAKE MULTIPLE DUCT TRAVERSES AND/OR GRILLE READINGS AS REQUIRED TO DETERMINE THE FLOW RATE. IN THE EVENT TRAVERSES ARE TAKEN AT AN ALTERNATE LOCATION(S), TAB CONTRACTOR SHALL INCLUDE A DRAWING THAT SHOWS THE LOCATIONS WHERE THE ACTUAL MEASUREMENTS WERE TAKEN.
- A DUCT STATIC PRESSURE READING SHALL BE TAKEN AT EACH LOCATION WHERE A DUCT TRAVERSE READING IS TAKEN AND SHALL BE INCLUDED IN THE FINAL POST-CONSTRUCTION TAB REPORT.
- TAB CONTRACTOR SHALL COMPILE AND SUBMIT COPIES OF THE FINAL POST-CONSTRUCTION TAB REPORT AS REQUIRED BY SECTION 23 05 93.
- THE FINAL POST CONSTRUCTION REPORT SHALL INCLUDE ALL ITEMS REQUIRED IN THE SPECIFICATIONS.

MECHANICAL SHEET INDEX	
M-100	MECHANICAL COVERSHEET
M-101	SCHEDULES
M-102	SCHEDULES
M-103	TITLE 24 DOCUMENTATION
M-104	TITLE 24 DOCUMENTATION
M-105	TITLE 24 DOCUMENTATION
M-106	TITLE 24 DOCUMENTATION
M-107	TITLE 24 DOCUMENTATION
M-108	TITLE 24 DOCUMENTATION
M-109	TITLE 24 DOCUMENTATION
M-110	TITLE 24 DOCUMENTATION
M-111	TITLE 24 DOCUMENTATION
MS-101	MECHANICAL SITE PLAN
MA-101	ADMINISTRATION BUILDING MECHANICAL FIRST FLOOR PLAN
MA-102	ADMINISTRATION BUILDING MECHANICAL SECOND FLOOR PLAN
MA-103	ADMINISTRATION BUILDING MECHANICAL ROOF PLAN
MA-105	ADMINISTRATION BUILDING MECHANICAL ISOMETRIC VIEWS
MBC-101	MEDICAL CLINIC MECHANICAL FLOOR PLAN
MBC-102	MEDICAL CLINIC MECHANICAL ROOF PLAN
MBC-103	MEDICAL CLINIC MECHANICAL ISOMETRIC VIEWS
MD-101	CAT & OTHER ANIMALS BUILDING MECHANICAL FLOOR PLAN
MD-102	CAT & OTHER ANIMALS BUILDING MECHANICAL ROOF PLAN
ME-101	ADOPTION DOG BUILDING 1 MECHANICAL FLOOR PLAN
ME-102	ADOPTION DOG BUILDING 1 MECHANICAL ROOF PLAN
ME-103	ADOPTION DOG BUILDING ISOMETRIC VIEWS
MF-101	ADOPTION DOG BUILDING 2 MECHANICAL FLOOR PLAN
MF-102	ADOPTION DOG BUILDING 2 MECHANICAL ROOF PLAN
MG-101	ADOPTION DOG BUILDING 3 MECHANICAL FLOOR PLAN
MG-102	ADOPTION DOG BUILDING 3 MECHANICAL ROOF PLAN
MH-101	STRAY DOG BUILDING MECHANICAL FLOOR PLAN
MH-102	STRAY DOG BUILDING MECHANICAL ROOF PLAN
MH.1-101	ADOPTION DOG BUILDING 4 MECHANICAL FLOOR PLAN
MH.1-102	ADOPTION DOG BUILDING 4 MECHANICAL ROOF PLAN
MI-101	SUPPORT BUILDING MECHANICAL FLOOR PLAN
MJ-101	ADOPTION DOG BUILDING 5 MECHANICAL FLOOR PLAN
MJ-102	ADOPTION DOG BUILDING 5 MECHANICAL ROOF PLAN
MK-101	ADOPTION DOG BUILDING 6 MECHANICAL FLOOR PLAN
MK-102	ADOPTION DOG BUILDING 6 MECHANICAL ROOF PLAN
M-200	MECHANICAL DETAILS
M-201	MECHANICAL DETAILS
M-202	MECHANICAL DETAILS
M-203	MECHANICAL DETAILS
M-204	MECHANICAL DETAILS
M-205	WIRING DIAGRAMS
M-300	CONTROLS
M-301	CONTROLS
GRAND TOTAL: 46	

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REGISTRED PROFESSIONAL ENGINEER
No. M34060
Exp. June 30 2026
MECHANICAL
D. J. J. J.

0

1

2

3

REF. SCALE IN INCHES

PROJECT #2207569.00

architecture
interiors
planning

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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

sheet name

MECHANICAL
COVERSHEET

sheet number

M-100

Sheet Of Sheets

PACKAGED ROOFTOP UNIT SCHEDULE - AIR COOLED HEAT PUMP

NOTES:

1. WHEN CO2 SENSOR READS 1,000 PPM, OSA TO MODULATE FROM MINIMUM CFM TO FULL DEMAND CONTROLLED VENTILATION CFM.
2. POWER EXHAUST TO RECEIVE SEPERATE POWER CONNECTION.
3. COMPLETE WITH 7.5 KW ELECTRIC HEATER.
4. COMPLETE WITH SEISMICALLY CALCULATED VIBRATION ISOLATION BY MICROMETL OR EQUAL.
5. COMPLETE WITH UNIT CONTROLLER FOR EMS CONNECTION.
6. COMPLETE WITH UV LIGHT AND CHARCOAL FILTER.

		NOMINAL TONS	OUTSIDE AIR (NOTE 1)		SUPPLY FAN			UNIT ELECTRICAL DATA (NOTE 2)										COOLING COIL - DX (NOTE 3)					HEATING COIL - DX (NOTE 3)					EER/IEER/COP	FILTER TYPE (MERV)	MODULATING POWER EXHAUST (NOTE 2)						WEIGHT			AUTOMATIC SMOKE DETECTION SHUTOFF	ANCHORAGE DETAIL	MANUFACTURER	MODEL	NOTES	
TAG NAME	AREA SERVED		MINIMUM CFM	FULL DCV CFM	CFM TOTAL	EXT S.P. IN W.C.	RPM	BHP	VOLTAGE	PHASES	FLA	MCA	MOCP	DISCONNECT(S) BY (NOTE A) TYPE (NOTE B)		SCCR	EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F	SENSIBLE MBH	TOTAL MBH	AMB TEMP °F	EAT DB °F	LAT DB °F	TOTAL MBH	AMB TEMP °F			HP	VOLTAGE	FLA	MCA	MOCP	UNIT WEIGHT	POWER EXHAUST WEIGHT	CURB WEIGHT	TOTAL WEIGHT						
AC-1-1	ADMIN BLDG MPR	10	330	850	4000	1.0	1841	2.2	208	3	72.9 A	83 A	90 A	EC	F	5,000 A	82.4	62.7	56.2	52.9	113.09	118	105	61.5	95.1	118.61	37	11.0/15.0/3.4	13	MICROMETL/PECD-SRT34CB-D2DH-2L2	2.0	208-3ø-60hz	9.5	11.9	21.4	955	469	259	1,683	YES	1/M-200	CARRIER	50FCQM12	4, 5
AC-3-1	CAT & OTHER ANIMALS	12.5	2300	N/A	5000	1.0	1590	2	208	3	72.9 A	83 A	90 A	EC	F	5,000 A	81.7	63.5	59.9	54.9	117.5	127	105	62.2	86.1	102.59	37	11.0/15.0/3.4	13	N/A	N/A	N/A	N/A	N/A	1250	N/A	259	1,506	YES	1/M-200	CARRIER	50FCQM14	4, 5, 6	
AC-4-1	ADOPTION DOG BUILDING 1	12.5	2300	N/A	5000	1.0	1590	2	208	3	72.9 A	83 A	90 A	EC	F	5,000 A	81.7	63.5	59.9	54.9	117.5	127	105	62.2	86.1	102.59	37	10.6/15.0/3.3	13	N/A	N/A	N/A	N/A	N/A	1250	0	572	1,822	YES	1/M-200	CARRIER	50FCQM14	4, 5, 6	
AC-5-1	ADOPTION DOG BUILDING 1	12.5	2300	N/A	5000	1.0	1590	2	208	3	72.9 A	83 A	90 A	EC	F	5,000 A	81.7	63.5	59.9	54.9	117.5	127	105	62.2	86.1	102.59	37	10.6/15.0/3.3	13	N/A	N/A	N/A	N/A	N/A	1250	0	572	1,822	YES	1/M-200	CARRIER	50FCQM14	4, 5, 6	
AC-6-1	ADOPTION DOG BUILDING 2	12.5	2300	N/A	5000	1.0	1590	2	208	3	72.9 A	83 A	90 A	EC	F	5,000 A	81.7	63.5	59.9	54.9	117.5	127	105	62.2	86.1	102.59	37	10.6/15.0/3.3	13	N/A	N/A	N/A	N/A	N/A	1250	0	572	1,822	YES	1/M-200	CARRIER	50FCQM14	4, 5, 6	
AC-7-1	ADOPTION DOG BUILDING 3	12.5	2300	N/A	5000	1.0	1590	2	208	3	72.9 A	83 A	90 A	EC	F	5,000 A	81.7	63.5	59.9	54.9	117.5	127	105	62.2	86.1	102.59	37	10.6/15.0/3.3	13	N/A	N/A	N/A	N/A	N/A	1250	0	572	1,822	YES	1/M-200	CARRIER	50FCQM14	4, 5, 6	
AC-8-1	STRAY DOG BUILDING	12.5	2300	N/A	5000	1.0	1590	2	208	3	72.9 A	83 A	90 A	EC	F	5,000 A	81.7	63.5	59.9	54.9	117.5	127	105	62.2	86.1	102.59	37	10.6/15.0/3.3	13	N/A	N/A	N/A	N/A	N/A	1250	0	572	1,822	YES	1/M-200	CARRIER	50FCQM14	4, 5, 6	
AC-10-1	ADOPTION DOG BUILDING 4	12.5	2300	N/A	5000	1.0	1590	2	208	3	72.9 A	83 A	90 A	EC	F	5,000 A	81.7	63.5	59.9	54.9	117.5	127	105	62.2	86.1	102.59	37	10.6/15.0/3.3	13	N/A	N/A	N/A	N/A	N/A	1250	0	572	1,822	YES	1/M-200	CARRIER	50FCQM14	4, 5, 6	
AC-11-1	ADOPTION DOG BUILDING 5	7.5	1400	N/A	3000	1.0	1527	1.3	208	3	70 A	71 A	80 A	EC	F	5,000 A	81.0	63.0	57.0	53.0	78	86	105	62	86	83	37	11.0/15.0/3.4	13	N/A	N/A	N/A	N/A	N/A	805	0	259	1064	YES	1/M-200	CARRIER	50FCQM08	4, 5, 6	
AC-12-1	ADOPTION DOG BUILDING 6	7.5	1400	N/A	3000	1.0	1527	1.3	208	3	70 A	71 A	80 A	EC	F	5,000 A	81.0	63.0	57.0	53.0	78	86	105	62	86	83	37	11.0/15.0/3.4	13	N/A	N/A	N/A	N/A	N/A	805	0	259	1064	YES	1/M-200	CARRIER	50FCQM08	4, 5, 6	

AIR HANDLING UNIT SCHEDULE

NOTES:

1. PROVIDE SHAFT GROUNDING AS REQUIRED IN THE MOTOR SPECIFICATION ----[15170] [22 05 13] [23 05 13].
2. STEAM PRESSURE INDICATED IS THE PRESSURE AVAILABLE DOWNSTREAM OF THE CONTROL VALVE.

TAG NAME	AREA SERVED	SUPPLY FAN					MINIMUM OUTSIDE AIR CFM	AUTOMATIC SMOKE DETECTION SHUTOFF	ELECTRICAL					HEATING COIL - DX HEAT PUMP		COOLING COIL - DX					FILTER								VIBRATION ISOLATION			ANCHORAGE DETAIL	NOTES		
		CFM TOTAL	TOTAL S.P.	RPM	BHP	MHP			VOLTAGE	PHASES	MCA	MOCP	CONTROLLER STARTER(S)		EAT °F	LAT °F	MBH	EAT DB °F	EAT WB °F	LAT DB °F	LAT WB °F	TOTAL MBH	PRE-FILTER				FINAL-FILTER								
													BY (NOTE A)	TYPE (NOTE C)									SCCR	TYPE	FACE VELOCITY	PRESSURE DIRTY	CLEAN	TYPE						FACE VELOCITY	PRESSURE DIRTY
																													TYPE	FACE VELOCITY	PRESSURE DIRTY				
AH-2-1	MEDICAL CLINIC	4000	2.6	2920	3.4	7.5	0	YES	208	3	24.2	30	EC	F	5000	53.0	86.7	179	99.1	65.7	57.0	55.0	129	0	0.0	0.0	0	0.0	0.0	1500	0.000	CARRIER	39 MN SIZE Ø8W	5/M-202	
AH-9-1	SUPPORT BUILDING	4900	2.6	2670	4.2	7.5	0	YES	208	3	24.2	30	MC	F	5000	541.0	95.9	254	99.1	64.8	57.2	63.1	169	0	0.0	0.0	0	0.0	0.0	1750	0.000	CARRIER	39 MN SIZE 10W	5/M-202	

VRF MODULAR OUTDOOR UNIT SCHEDULE

NOTES:

1. EACH MODULE TO RECEIVE SEPERATE POWER ELECTRICAL CONNECTION AND DISCONNECT.
2. WEIGHT SHOWN IS TOTAL WEIGHT, EACH MODULE WEIGHS 838 LBS.

TAG NAME	AREA SERVED	TONS	COOLING		HEATING		VOLTAGE	PHASES	ELECTRICAL										WEIGHT		ANCHORAGE DETAIL	MANUFACTURER	MODEL	NOTES
			NOMINAL MBH	NOMINAL MBH	MODULE 1. (NOTE 1)				MODULE 2. (NOTE 1)		MODULE 3 (NOTE 1)		DISCONNECT		CONTROLLER/STARTER		OPERATING							
					MCA	MCCP			MCA	MCCP	MCA	MCCP	BY (NOTE A)	TYPE (NOTE B)	BY (NOTE A)	SCCR								
HP-1-1	ADMIN BUILDING	38	430	485	208	3	66	70	52	60	52	60	EC	F	MC	5000	2514	4/M-200	TOSHIBA CARRIER	MMY-AP4326FT9PUL	2			
HP-2-1	MEDICAL CLINIC	12	144	162	208	3	54	60	N/A	N/A	N/A	N/A	EC	F	MC	5000	838	5/M-200	TOSHIBA CARRIER	MMY-MAP1446HT9PUL				
HP-9-1	SUPPORT BUILDING	14	168	189	208	3	69	80	N/A	N/A	N/A	N/A	EC	F	MC	5000	838	5/M-200	TOSHIBA CARRIER	MMY-MAP1688HT9PUL				

VRF INDOOR UNIT SCHEDULE

NOTES:

1. COMPLETE WITH FILTERBOX AND MERV-13 FILTER

TAG NAME	AREA SERVED	ASSOCIATED VRF HEAT PUMP	TONS	CFM	OA CFM	EXT. S.P. IN. W.C.	COOLING CAPACITY BTUH	HEATING CAPACITY BTUH	ELECTRICAL										WEIGHT	ANCHORAGE DETAIL	MANUFACTURER	MODEL	NOTES
									VOLTAGE	PHASES	FLA	MCA	MOCP	SCCR	DISCONNECT								
															BY (NOTE A)	TYPE (NOTE B)							
FC-1-1	ADMIN. BLDG ADOPTION LOBBY	HP-1	6	2235	325	1	72000	81000	208	1	4.6	5.70	15 A	5000	EC	F	218	2/M-200	TOSHIBA CARRIER	MMD-AP0726HP-JUL	1		
FC-1-2	ADMIN. BLDG ADOPTION LOBBY	HP-1	6	2235	300	1	48000	81000	208	1	4.6	5.70	15 A	5000	EC	F	218	2/M-200	TOSHIBA CARRIER	MMD-AP0726HP-JUL	1		
FC-1-3	ADMIN. BLDG ADMISSION LOBBY	HP-1	4	1235	180	1	48000	54000	208	1	3.1	3.88	15 A	5000	EC	F	98	2/M-200	TOSHIBA CARRIER	MMD-AP0486HP-JUL	1		
FC-1-4	ADMIN. BLDG 1ST FLOOR OFFICES	HP-1	6	2235	425	1	72000	81000	208	1	4.6	5.70	15 A	5000	EC	F	218	2/M-200	TOSHIBA CARRIER	MMD-AP0726HP-JUL	1		
FC-1-5	ADMIN. BLDG 1ST FLOOR OFFICES	HP-1	4	1235	285	1	48000	54000	208	1	3.1	3.88	15 A	5000	EC	F	98	2/M-200	TOSHIBA CARRIER	MMD-AP0486HP-JUL	1		
FC-1-6	ADMIN. BLDG 2ND FLOOR OFFICES	HP-1	3	1130	280	1	36000	40000	208	1	2.75	3.44	15 A	5000	EC	F	218	2/M-200	TOSHIBA CARRIER	MMD-AP0366HP-JUL	1		
FC-1-7	ADMIN. BLDG 2ND FLOOR OFFICES	HP-1	4.5	1400	250	1	54000	60000	208	1	3.46	4.33	15 A	5000	EC	F	98	2/M-200	TOSHIBA CARRIER	MMD-AP0546HP-JUL	1		
FC-1-8	ADMIN. BLDG 2ND FLOOR OFFICES	HP-1	4	1235	130	1	48000	54000	208	1	3.1	3.88	15 A	5000	EC	F	98	2/M-200	TOSHIBA CARRIER	MMD-AP0486HP-JUL	1		

FAN SCHEDULE

NOTES:

1. COMPLETE WITH BACKDRAFT DAMPER, (4)SC-35 ISOLATORS.
2. CONTROL THRU EMS. FAN TO BE RUNNING DURING OCCUPIED HOURS.
3. COMPLETE WITH DISCHARGE SHUTTER, SHUTTER GUARD, WALL COLLAR AND WIRE GUARD.
4. COMPLETE WITH DISCHARGE SHUTTER, SEISMIC ISOLATION RAIL AND SEISMIC RESTRAINT SPRINGS.

TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	FAN RPM	DRIVE TYPE	DISCHARGE	BACKDRAFT DAMPER TYPE	BHP	MHP	ELECTRICAL				SCCR
----------	-------------	-----	---------------	---------	------------	-----------	-----------------------	-----	-----	------------	--	--	--	------

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ROOF VENTILATOR SCHEDULE

NOTES:
1. COMPLETE WITH BACKDRAFT DAMPER AND SLOPE TYPE ROOF CURB.

TAG NAME	AREA SERVED	CFM	S.P. IN. W.C.	BACKDRAFT DAMPER TYPE	WEIGHT	ANCHORAGE DETAIL	MANUFACTURER	MODEL	NOTES
RV-4-1	MEDICAL CLINIC	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-4-2	MEDICAL CLINIC	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-4-3	MEDICAL CLINIC	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-4-4	MEDICAL CLINIC	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-4-5	MEDICAL CLINIC	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-4-6	MEDICAL CLINIC	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-4-7	MEDICAL CLINIC	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-4-8	MEDICAL CLINIC	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-5-1	ADOPTION DOG BUILDING 1	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-5-2	ADOPTION DOG BUILDING 1	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-5-3	ADOPTION DOG BUILDING 1	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-5-4	ADOPTION DOG BUILDING 1	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-5-5	ADOPTION DOG BUILDING 1	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-5-6	ADOPTION DOG BUILDING 1	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-5-7	ADOPTION DOG BUILDING 1	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-5-8	ADOPTION DOG BUILDING 1	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-6-1	ADOPTION DOG BUILDING 2	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-6-2	ADOPTION DOG BUILDING 2	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-6-3	ADOPTION DOG BUILDING 2	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-6-4	ADOPTION DOG BUILDING 2	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-6-5	ADOPTION DOG BUILDING 2	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-6-6	ADOPTION DOG BUILDING 2	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-6-7	ADOPTION DOG BUILDING 2	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-6-8	ADOPTION DOG BUILDING 2	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-7-1	ADOPTION DOG BUILDING 3	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-7-2	ADOPTION DOG BUILDING 3	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-7-3	ADOPTION DOG BUILDING 3	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-7-4	ADOPTION DOG BUILDING 3	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-7-5	ADOPTION DOG BUILDING 3	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-7-6	ADOPTION DOG BUILDING 3	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-7-7	ADOPTION DOG BUILDING 3	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-7-8	ADOPTION DOG BUILDING 3	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-8-1	STRAY DOG BUILDING	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-8-2	STRAY DOG BUILDING	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-8-3	STRAY DOG BUILDING	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-8-4	STRAY DOG BUILDING	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-8-5	STRAY DOG BUILDING	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-8-6	STRAY DOG BUILDING	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-8-7	STRAY DOG BUILDING	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-8-8	STRAY DOG BUILDING	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-10-1	ADOPTION DOG BUILDING 4	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-10-2	ADOPTION DOG BUILDING 4	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-10-3	ADOPTION DOG BUILDING 4	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-10-4	ADOPTION DOG BUILDING 4	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-10-5	ADOPTION DOG BUILDING 4	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-10-6	ADOPTION DOG BUILDING 4	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-10-7	ADOPTION DOG BUILDING 4	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-10-8	ADOPTION DOG BUILDING 4	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-11-1	ADOPTION DOG BUILDING 5	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-11-2	ADOPTION DOG BUILDING 5	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-11-3	ADOPTION DOG BUILDING 5	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-11-4	ADOPTION DOG BUILDING 5	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-12-1	ADOPTION DOG BUILDING 6	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-12-2	ADOPTION DOG BUILDING 6	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-12-3	ADOPTION DOG BUILDING 6	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1
RV-12-4	ADOPTION DOG BUILDING 6	570	0.05	GRAVITY	45	4/M201	LOREN COOK	PR-12	1

DUCTLESS SPLIT SYSTEM UNIT SCHEDULE

NOTES:
1. COMPLETE WITH CONDENSATE PUMP, WIRED THERMOSTAT, LOW AMBIENT KIT AND CRANK CASE HEATER.
2. DISABLE HEATING FUNCTIONALITY.
3. SPACE TEMPERATURE SERVED BY SYSTEM TO BE MONITORED BY EMS.
4. INDOOR UNIT POWERED THRU OUTDOOR UNIT.

TAG NAME	AREA SERVED	INDOOR UNIT						OUTDOOR UNIT										SCCR	MANUFACTURER	ANCHORAGE DETAIL	NOTES
		CFM	COOLING MBH	WEIGHT	MODEL	SEER	WEIGHT	MODEL	ELECTRICAL (NOTE 4)												
									VOLTAGE	PHASE	MCA	MOCP AMPS	DISCONNECT								
													BY (NOTE A)	TYPE (NOTE B)							
SS-1	ADMIN BUILDING	845	36	45	40MBCQ24	17.5	151	38MARBQ36AA3	208	1	28.0	35	EC	F	5000	CARRIER	1 & 2/M-201	1, 2, 3			
SS-2	ADMIN BUILDING	845	36	45	40MAHBQ36XA3	17.5	151	38MARBQ36AA3	208	1	28.0	35	EC	F	5000	CARRIER	1 & 2/M-201	1, 2, 3			
SS-3	MEDICAL CLINIC	845	36	45	40MAHBQ36XA3	17.5	151	38MARBQ36AA3	208	1	28.0	35	EC	F	5000	CARRIER	1 & 2/M-201	1, 2, 3			
SS-4	MEDICAL CLINIC - EUTHANASIA RM	878	24	58	40MBCQ24	20	135	38MARBQ24AA3	208	1	25.0	35	EC	F	5000	CARRIER	1/M-201	1, 2, 3			
SS-5	CAT AND OTHER ANIMALS BUILDING	845	36	45	40MAHBQ36XA3	17.5	151	38MARBQ36AA3	208	1	28.0	35	EC	F	5000	CARRIER	1 & 2/M-201	1, 2, 3			
SS-6	SUPPORT BUILDING	845	36	45	40MAHBQ36XA3	17.5	151	38MARBQ36AA3	208	1	28.0	35	EC	F	5000	CARRIER	1 & 2/M-201	1, 2, 3			

AIR TERMINAL SCHEDULE

NOTES:
1. REFER TO DRAWINGS FOR NECK SIZE. ALL BRANCH DUCTWORK TO AIR TERMINALS SHALL BE NECK SIZE UNLESS NOTED OTHERWISE.

TAG NAME	FACE SIZE (IN.) (NOTE 2)	TYPE	BORDER	MATERIAL	FINISH	VOLUME DAMPER REQUIRED	MANUFACTURER	MODEL	NOTES
CD-1	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	PCS	DUCTED SUPPLY
CR-1	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	PAR	DUCTED RETURN
EG-1	24x24	PERFORATED FACE	LAY-IN	STEEL	WHITE	NO	TITUS	PAR	DUCTED EXHAUST
EG-2	SEE DWG.	35 DEGREE DEFLECTION	SURFACE MOUNT	STEEL	WHITE	NO	TITUS	350	LONG BLADES
SG-1	SEE DWG.	DOUBLE DEFLECTION	SURFACE MOUNT	STEEL	WHITE	NO	TITUS	300	SHORT FRONT BLADES



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REF. SCALE IN INCHES

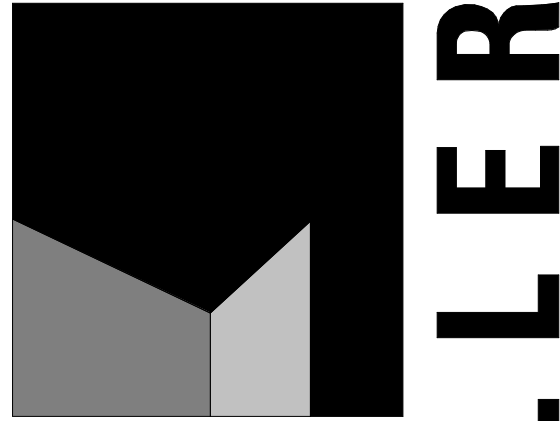
1234

PROJECT #22007569.00



REGISTERED PROFESSIONAL ENGINEER
No. M34080
Exp. June 30 2026
MECHANICAL
STATE OF CALIFORNIA





architecture
interiors
planning

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info@miller-aip.com



owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

sheet name

SCHEDULES

sheet number

M-102

Sheet Of Sheets

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 16 of 181)

01

02

03

04

05

06

Occupancy Type ¹	Conditioned Floor Area ² (SF)	Installed Lighting Power ³ (Watts)	Lighting Control Device ⁴ (Watts)	Area Category Permitted (Permitted)	Area Category Exceeded (Exceeded)
Commercial, Commercial Multipurpose and Meeting Center	3,706	2,464.5	9	0	0
Coverage	2577	104.6	0	0	0
Main Entry Lobby	2700	20.2	0	0	0
Office (250 square feet)	3639	10.7	0	0	0
Office (250 square feet)	2135	10.7	0	0	0
Building Total	13809	812.05	9	0	0

For 100% Efficacy:
See NEC 17.4.2 for nonregulated values.
Lighting information for existing space provided is not relevant to this table.

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Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

Compliance ID: EnergyPro-5553A-0224-0071

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 17 of 181)

01

02

03

04

05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 18 of 181)

01

02

03

04

05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

Compliance ID: EnergyPro-5553A-0224-0071

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 1 of 181)

Project Name: MEDICAL AND DDC CLINIC BUILDING

State: PREPARED

2024-02-02

01

02

03

04

05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 2 of 181)

01

02

03

04

05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 3 of 181)

01

02

03

04

05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

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CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 4 of 181)

01

02

03

04

05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

Compliance ID: EnergyPro-5553A-0224-0071

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 5 of 181)

01

02

03

04

05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

Compliance ID: EnergyPro-5553A-0224-0071

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 6 of 181)

01

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04

05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

Compliance ID: EnergyPro-5553A-0224-0071

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 7 of 181)

01

02

03

04

05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

Compliance ID: EnergyPro-5553A-0224-0071

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 8 of 181)

01

02

03

04

05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

Compliance ID: EnergyPro-5553A-0224-0071

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 9 of 181)

01

02

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05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

Compliance ID: EnergyPro-5553A-0224-0071

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 10 of 181)

01

02

03

04

05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

Compliance ID: EnergyPro-5553A-0224-0071

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 11 of 181)

01

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06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

Compliance ID: EnergyPro-5553A-0224-0071

CERTIFICATE OF COMPLIANCE - NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD

Nonresidential Performance Compliance Method

(Page 12 of 181)

01

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05

06

Building Component	Item/Title
Envelope	NEC 17.4.2.1 - Must be submitted for all buildings.

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance

Report Version: 2022.0.000

Report Generated: 2024-02-02 10:27:07

Compliance ID: EnergyPro-5553A-0224-0071



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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313
SAN BERNARDINO COUNTY

project information
Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

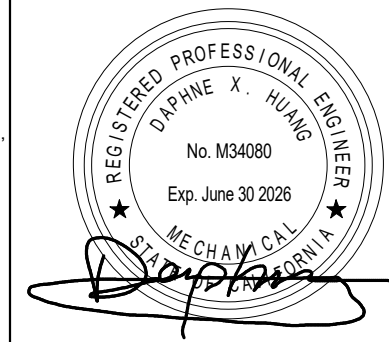
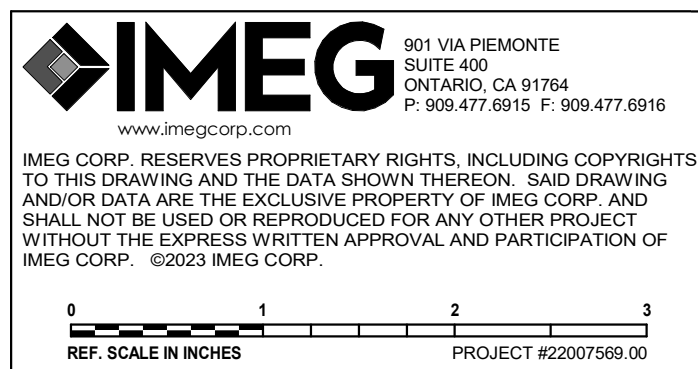
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TITLE 24
DOCUMENTATION

sheet number

M-104

Sheet Of Sheets



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 Latest Version: (Rev 20220601)
 ComplianceID: EnergyHS-55574-0224-0006

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CA Building Energy Efficiency Standards - 2022 Administrative Compliance Report Version: 2022-03-01 Report Generated: 2024-02-02 17:11:07
 Summary Version: 1/1/2022 Summary ID: 1/1/2022-03-01

64. INDOOR CONVERSION LIGHTING MANDATORY LIGHTING CONTROL

CA Building Energy Efficiency Standards - 2022 Hypermaterials Compliance	Report Version: 2022-03-03 (Initial Version: 01/23/2020)	Report Generated: 2024-03-02 13:11:07 ComplianceID: EnergyPro-5557A-0224-0086
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LA Building Energy Efficiency Standards - 2022 International Codebook

LA Building Energy Efficiency Standards - 2022 Interim Final Compliance | Report Generated: 2024-07-02 09:40:28
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CA Building Energy Efficiency Standards - 2023 Interim Model Compliance

CA Building Energy Efficiency Standards – 2022 Commercial Compliance Report Version: 2023-01-06 Report Generated: 2024-02-02 09:40:28
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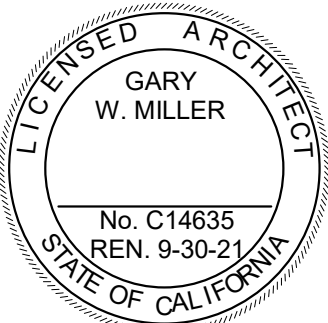
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LA Building Energy Efficiency Standards - 2022 International Codebook

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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-02-02 09:40:28
 Software Version: rev 20220601 Compliance ID: Eneval/rev55574-0224-006

owner approval

initials	date	phase
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revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER18313 VALLEY BLVD. BLOOMINGTON, CA 92313SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	PS
Issue Date:	05/17/24

sheet name

TITLE 24
DOCUMENTATION

sheet numberM-108SheetOf

Sheets

CERTIFICATE OF COMPLIANCE • NON-REGULATORY COMPLIANCE METHOD				NRCCE-PRG-01
Non-regulatory Performance Compliance Method				(Page 5 of 17)
EX-10 ENERGY RESULTS FOR NON-REGULATORY COMPONENTS ¹				
Non-Regulated Energy Component	Standard Design (STD)	Proposed Design (PDV)	Compliance Margin (EDV)	
Refrigerants	---	---	---	
Process	---	---	---	
Chiller Lag	---	---	---	
Process Motors	---	---	---	
TOTAL (TOTAL COMPLIANCE • NON-REGULATED COMPONENTS)	110.81	99.64	11.17 (65.3%)	
¹ Notes: This table is not used for Energy Code Compliance.				

CERTIFICATE OF COMPLIANCE - NONRESIDENT PERFORMANCE COMPLIANCE METHOD				NBC-C-P02-0
Nonresidential Performance Compliance Method				(Page 6 of 17)
CA SOURCE ENERGY EFFICIENCY RESULTS FOR PERFORMANCE COMPONENTS (Annual SOURCE Energy Use, kWh/m²/yr)				
COMPLIANCE¹				
Energy Component	Standard Design [SOURCE]	Proposed Design [SOURCE]	Compliance Margin [SOURCE]²	
ROOF RINSING	2.77	2.77	-0.00%	
WATER COOLING	1.85	1.85	-0.04%	
ROOF FANS	0.19	0.01	0.33%	
HVAC RECOVERIES	—	0	0	
STORAGE & REUSE	0	0	0	
COMBUSTION EFFICIENCY	—	0	0	
SOLAR GLASSING	1.79	1.79	0	
TRANSPIRANT	—	—	—	
EFFICIENCY COMPLIANCE TOTAL	0.06	0.23	0.74 (0.74%)	
Transparency	—	—	—	
TOTAL COMPLIANCE³	0.06	0.23	0.74 (0.74%)	
Notes: 1. The number in parentheses following the Compliance Margin in column 6, represents the Percent Better than Standard.				

NRCSE-PRE-6			
Nonresidential Performance Compliance Method			
(Page 7 of 17)			
U.S. SOURCE ENERGY RESULTS FOR NON-REGULATED COMPONENTS¹			
Non-Regulated Energy Component	Standard Design [SOURCE]	Proposed Design [SOURCE]	Compliance Margin [SOURCE] ²
Refrigerate	---	---	---
Process	---	---	---
Other Use	---	---	---
Process Motors	---	---	---
TOTAL (TOTAL COMPLIANCE + NON-REGULATED COMPONENTS)	0.00	2.81	0.18 (8.2%)
² Notes: This table is not used for Energy Code Compliance.			
SE "MOVIE CODE" QUALIFICATIONS			
☐ This project is pursuing California Tier 1 ☐ This project is pursuing California Tier 2			

CERTIFICATE OF COMPLIANCE – NONRESIDENTIAL PERFORMANCE COMPLIANCE METHOD				NEEC Form 1
Nonresidential Performance Compliance Method				(Page # of 17)
EX. TYPICAL ENERGY COMPLIANCE RESULTS FOR PERFORMANCE COMPONENTS (Annual Total Energy Use, kWh/m ² - yr)				
COMPLEX ¹				
Energy Components	Standard Design (TDV)	Proposed Design (TDV)	Compliance Margin (TDV) ²	
Space Heating	18.00	18.54	-0.6%	
Space Cooling	60.04	67.7	-1.0%	
Indoor Fans	27.12	10.83	12.77	
Water Refrigeration	0	0	0	
Refriger & Misc.	0	0	0	
Domestic Hot Water	0	0	0	
Indoor Lighting	23.05	13.03	9	
Transport	—	—	—	
EFFICIENCY COMPLIANCE TOTAL:	110.89	99.84	11.05 (10.5%)	
Photocopy/Scan	—	—	—	
Batteries	—	—	—	
TOTAL COMPLIANCE:	110.89	99.84	11.05 (10.5%)	
¹ Notes: This number is approximate. Following the Compliance Margin, in column 4, represents the Proposed Better than Standard.				



CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.000 Report Generated: 2024-07-02 10:44:56
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CA Building Energy Efficiency Standards - 2022 (Interim) Compliance	Report Version: 2022-01-08	Report Generated: 2024-02-02 10:44:56
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(Latest Version: Rev 20220401) | ComplianceID: EnergyPro-51574-0218-0073

CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance	Report Version: 2022.0.000 Summary Version: rev 20220601	Report Generated: 2024-02-02 10:44:01 Compliance ID: EnergyPro-5557A-0224-0075
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LA Building Energy Efficiency Standards - 2022 (Commercial) Compliance Report Version: 2022.03.00 Report Generated: 2024-02-02 10:44:51
Current Version: rev 20220601 ComplianceID: EnergyPro-5557A-023A-0073

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CA Building Energy Efficiency Standards - 2022 Administrative Compliance Report Version: 2022.0.000 Report Generated: 2024-07-02 10:44:51
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CA Building Energy Efficiency Standards - 2022 Nonresidential Compliance Report Version: 2022.0.0001 Report Generated: 2024-07-02 10:44:56
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CA Building Energy Efficiency Standards - 2022 Administrative Compliance Report Version: 2022.0.000 Report Generated: 2024-07-02 10:16:03
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CA Building Energy Efficiency Standards - 2022 (nonresidential) Compliance Report Generated: 2024-07-02 10:44:56
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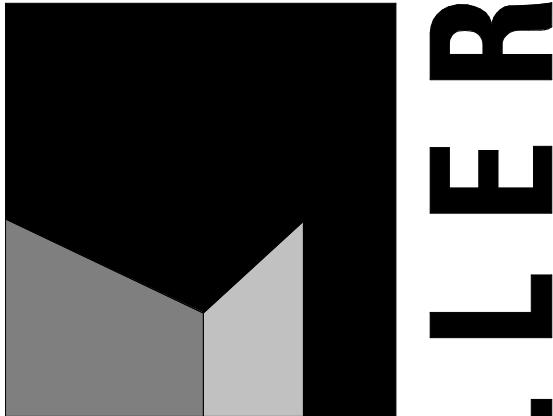
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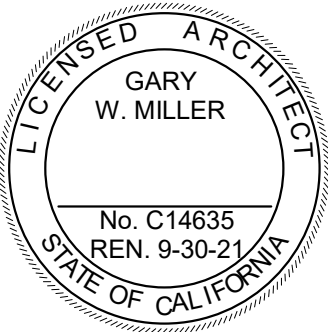
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REF. SCALE IN INCHES PROJECT #K2207569.00



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info@miller-aip.com**



owner approval

initials	date	phase
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revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	PS
Issue Date:	05/17/24

sheet name

TITLE 24
DOCUMENTATION

sheet number

M-110

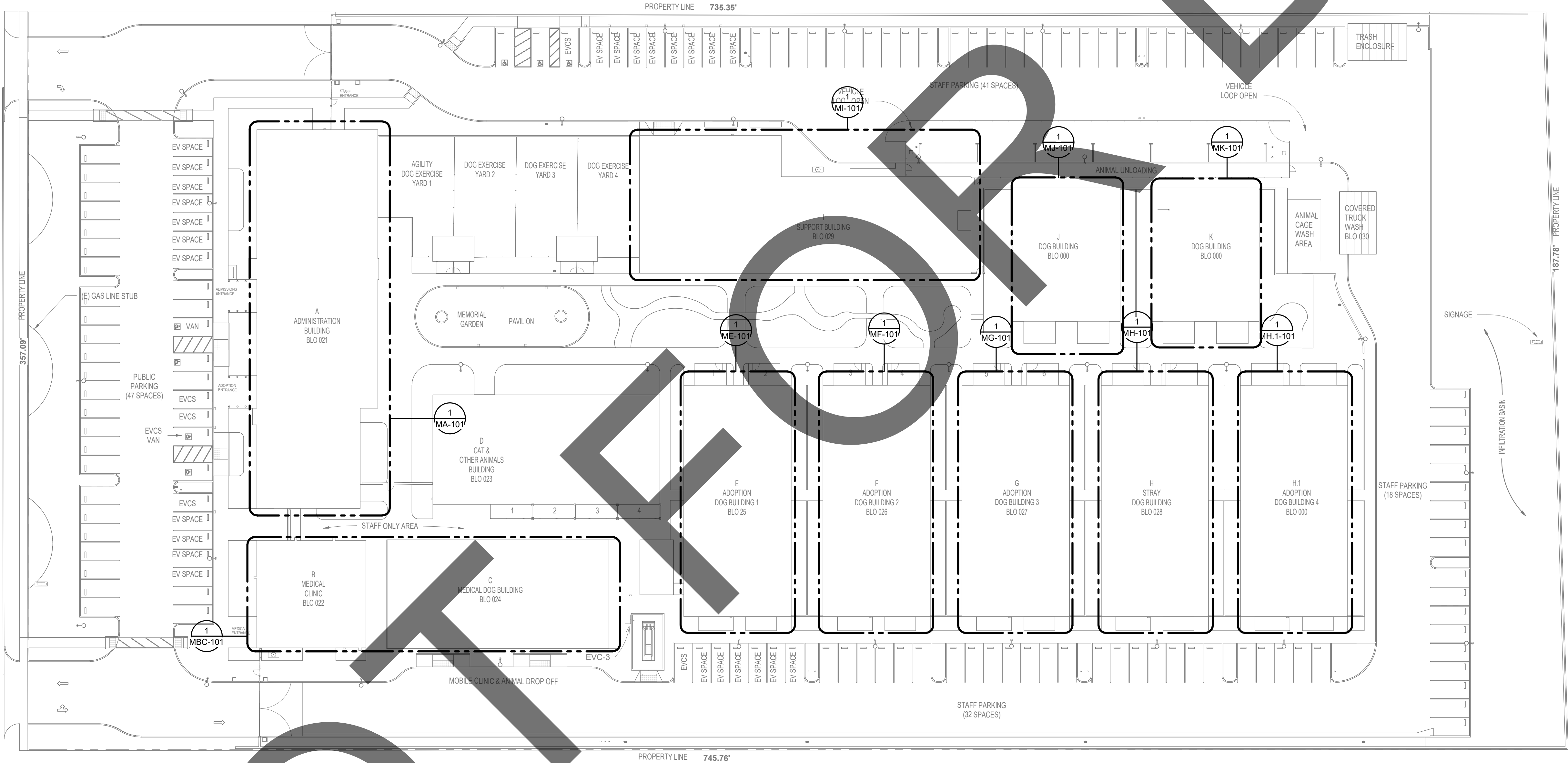
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E.A. Building Energy Efficiency Standards - 2012 International Compliance Report Version: 2022-03-03 Report Generated: 2024-07-02 10:16:03
 (Current Version: rev 20220601) Compliance ID: EnergyPro-55574-0238-0075

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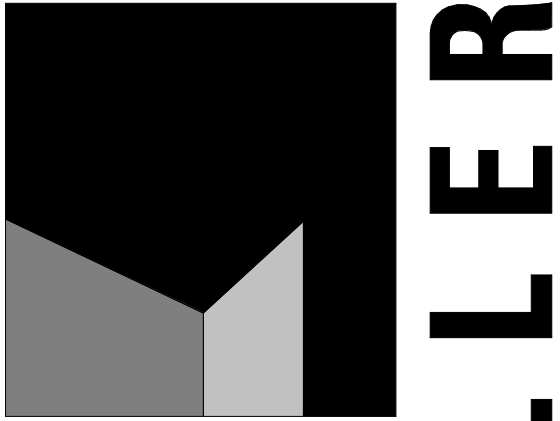
MECHANICAL SITE PLAN

1" = 30'-0"

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PROJECT #22007569.00



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owner approval

initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

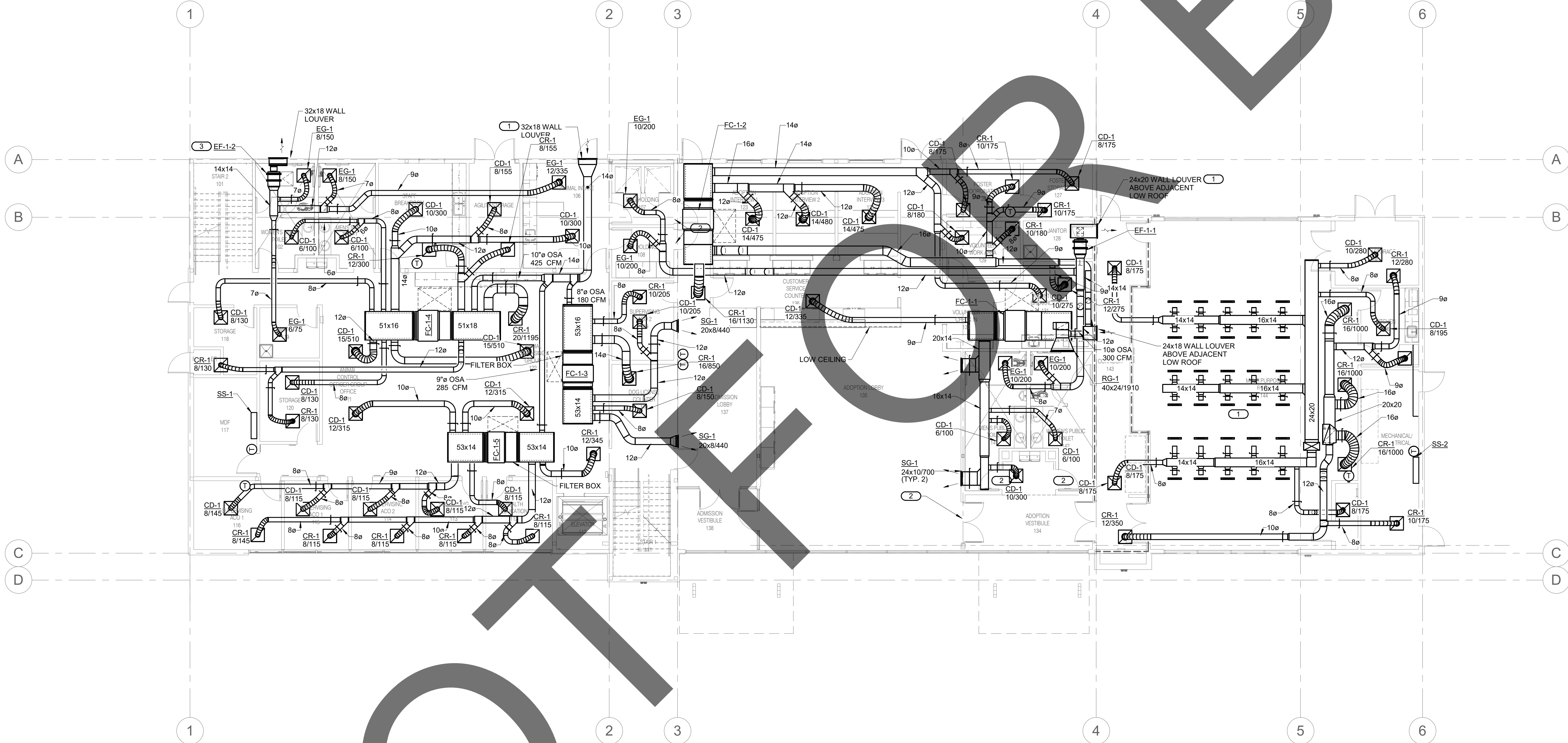
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MECHANICAL SITE PLAN

sheet number

MS-101

Sheet Of Sheets



ADMINISTRATION BUILDING MECHANICAL FIRST FLOOR PLAN

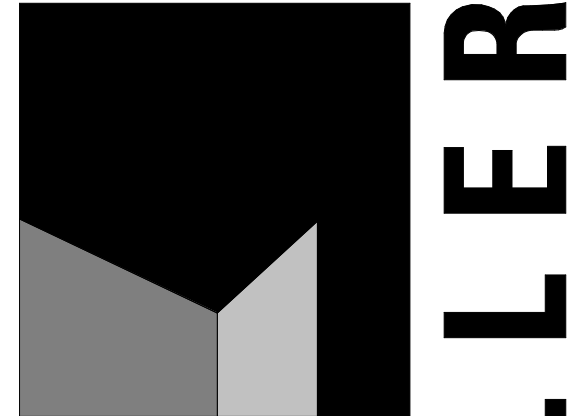
1/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO PROVIDE AND MAINTAIN SERVICE CLEARANCES FOR MECHANICAL EQUIPMENT PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH OTHER TRADES IN THE FIELD DURING CONSTRUCTION.

KEY NOTES (#)

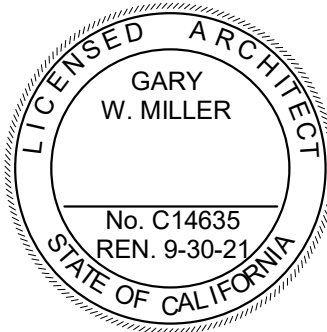
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2. 24x12 DOOR LOUVER, SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. PROVIDE CEILING ACCESS DOOR FOR MECHANICAL EQUIPMENT, COORDINATE WITH ARCHITECT.



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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

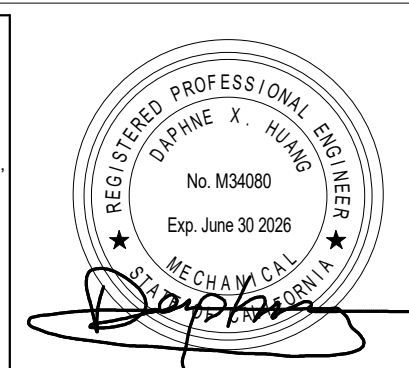
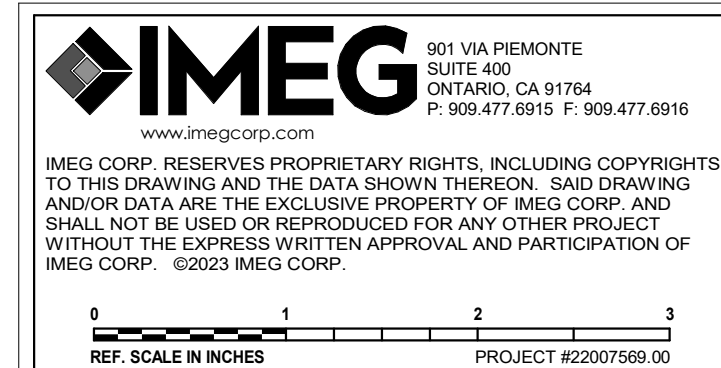
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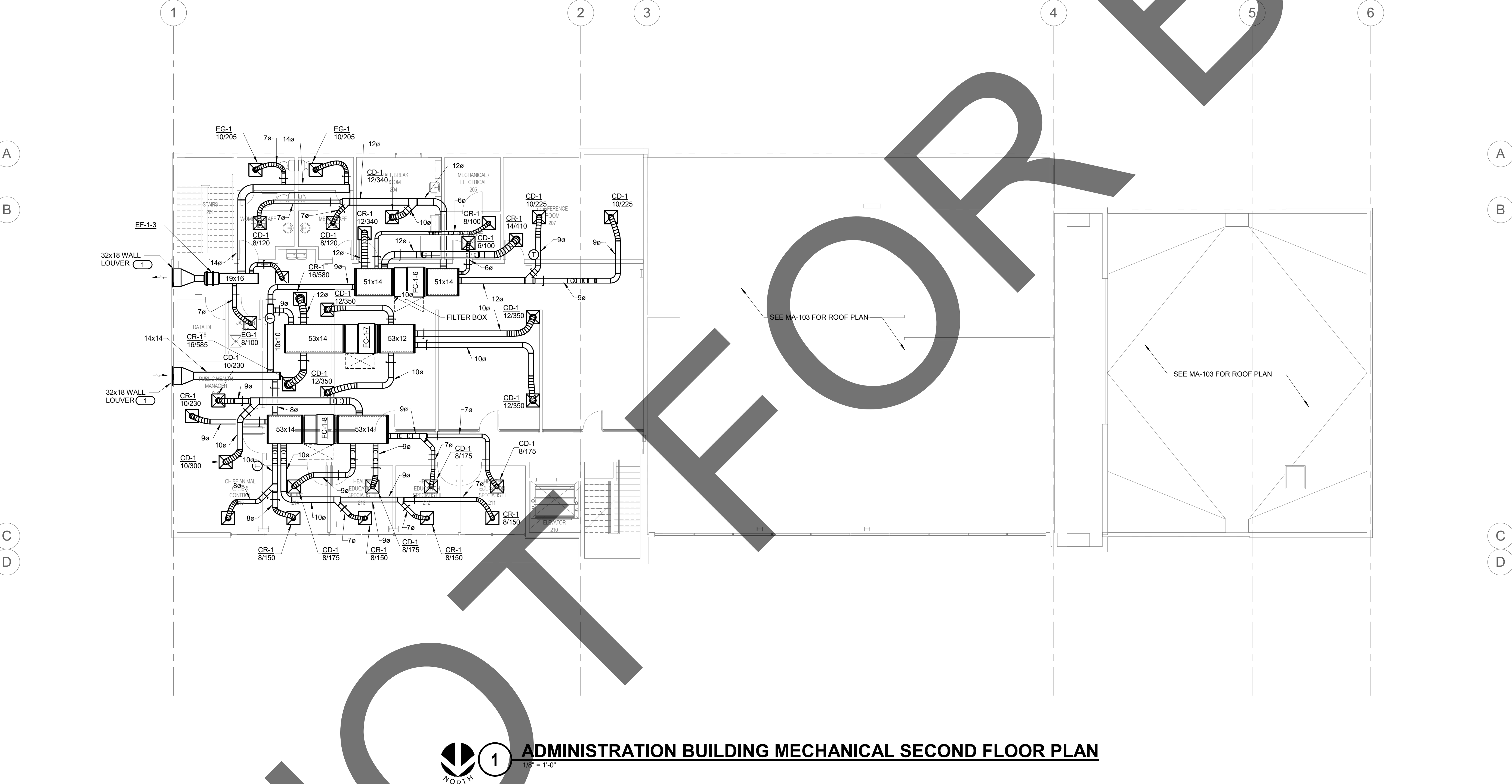
ADMINISTRATION
BUILDING
MECHANICAL FIRST
FLOOR PLAN

sheet number

MA-101

Sheet Of Sheets





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ADMINISTRATION BUILDING MECHANICAL SECOND FLOOR PLAN

1/8" = 1'-0"

GENERAL NOTES

1. CONTRACTOR TO PROVIDE AND MAINTAIN SERVICE CLEARANCES FOR MECHANICAL EQUIPMENT PER MANUFACTURERS REQUIREMENTS. COORDINATE WITH OTHER TRADES IN THE FIELD DURING CONSTRUCTION.

KEY NOTES

1. LOUVER TO HAVE MINIMUM 50% FREE AREA. SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE WITH STRUCTURAL PLANS FOR OPENING DIMENSIONS IN WALL.



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initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	PS
Issue Date:	05/17/24

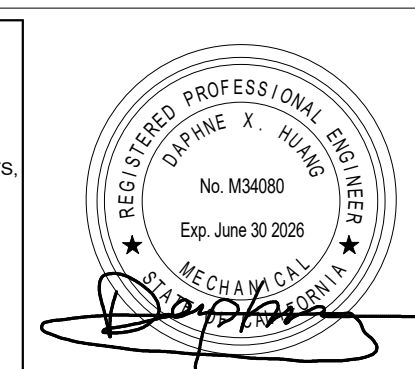
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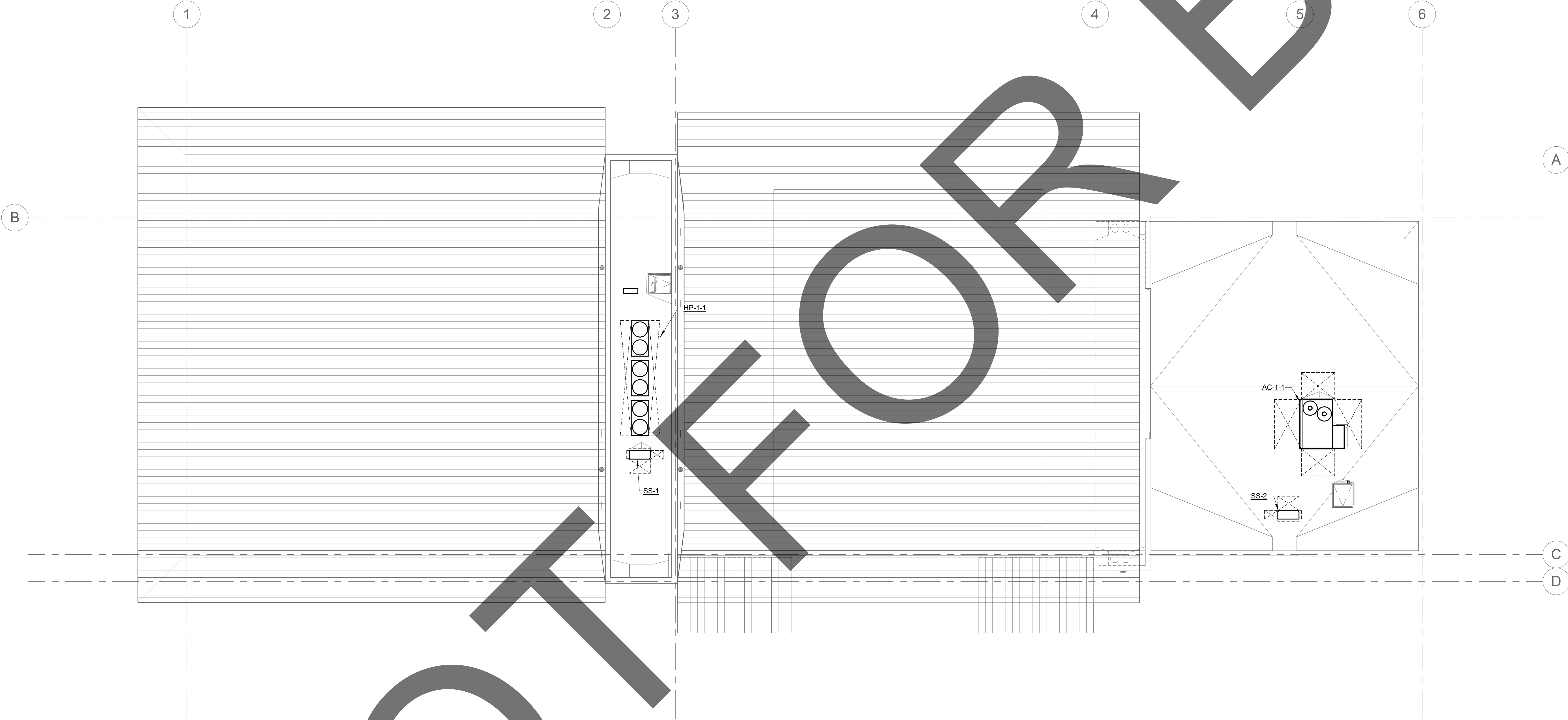
ADMINISTRATION
BUILDING
MECHANICAL
SECOND FLOOR
PLAN

sheet number

MA-102

Sheet Of Sheets





1

ADMINISTRATION BUILDING MECHANICAL ROOF PLAN

1/8" = 1'-0"

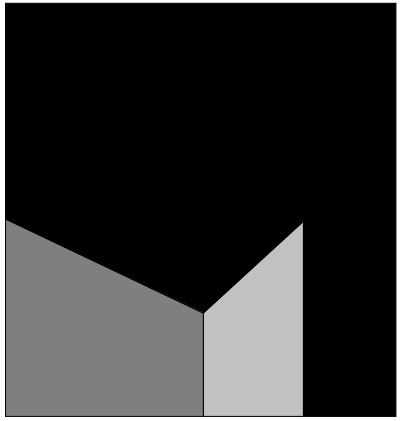


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initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	PS
Issue Date:	05/17/24

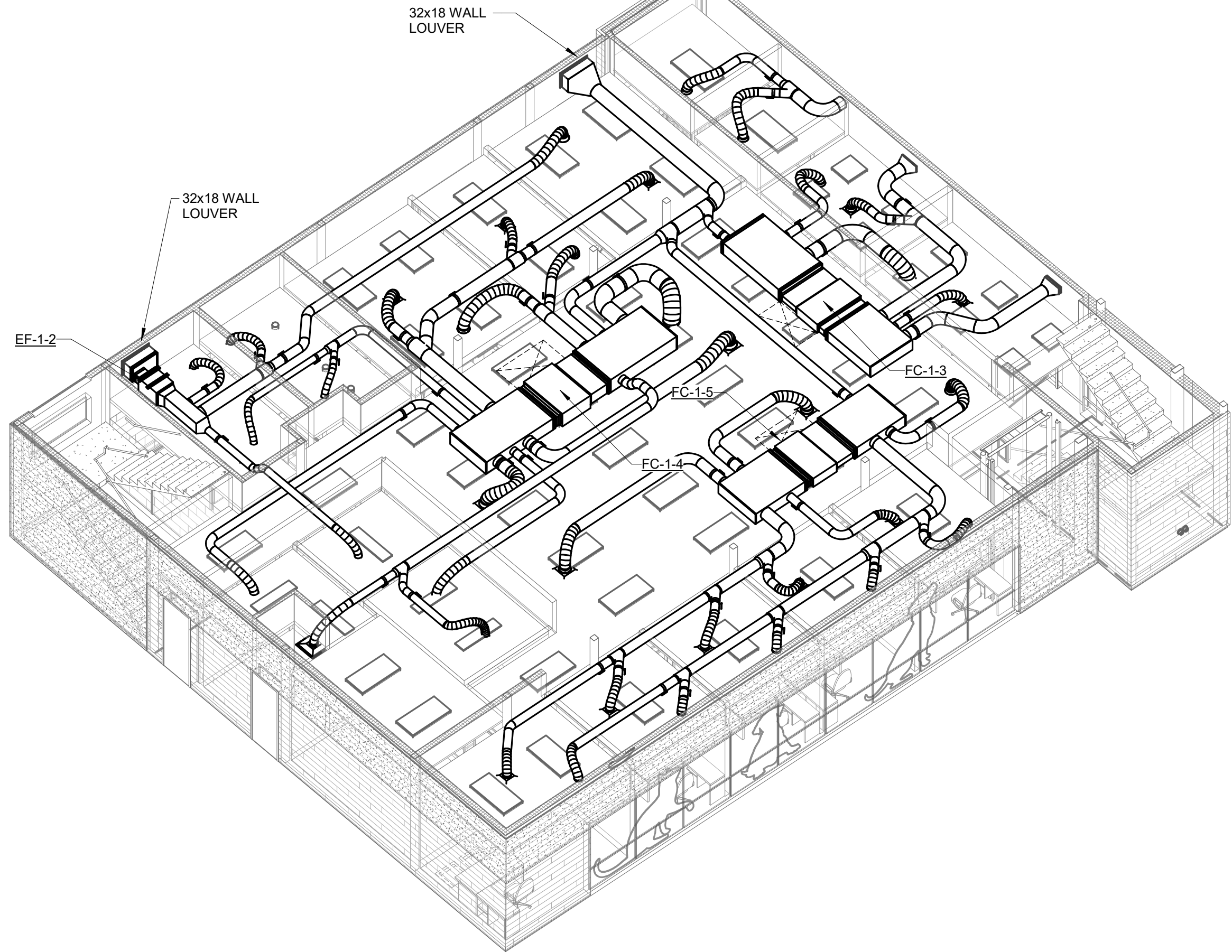
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ADMINISTRATION
BUILDING
MECHANICAL ROOF
PLAN

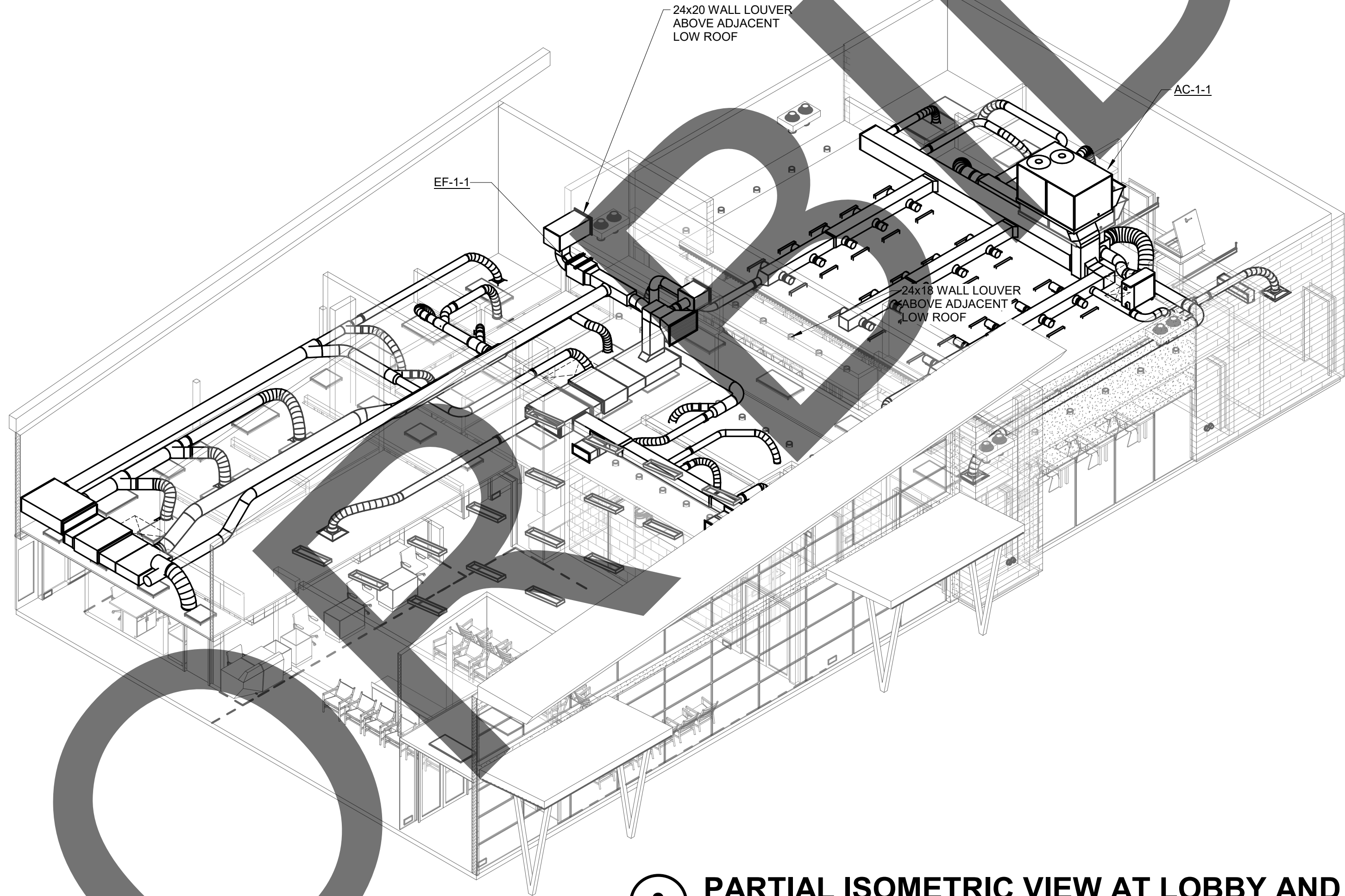
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MA-103

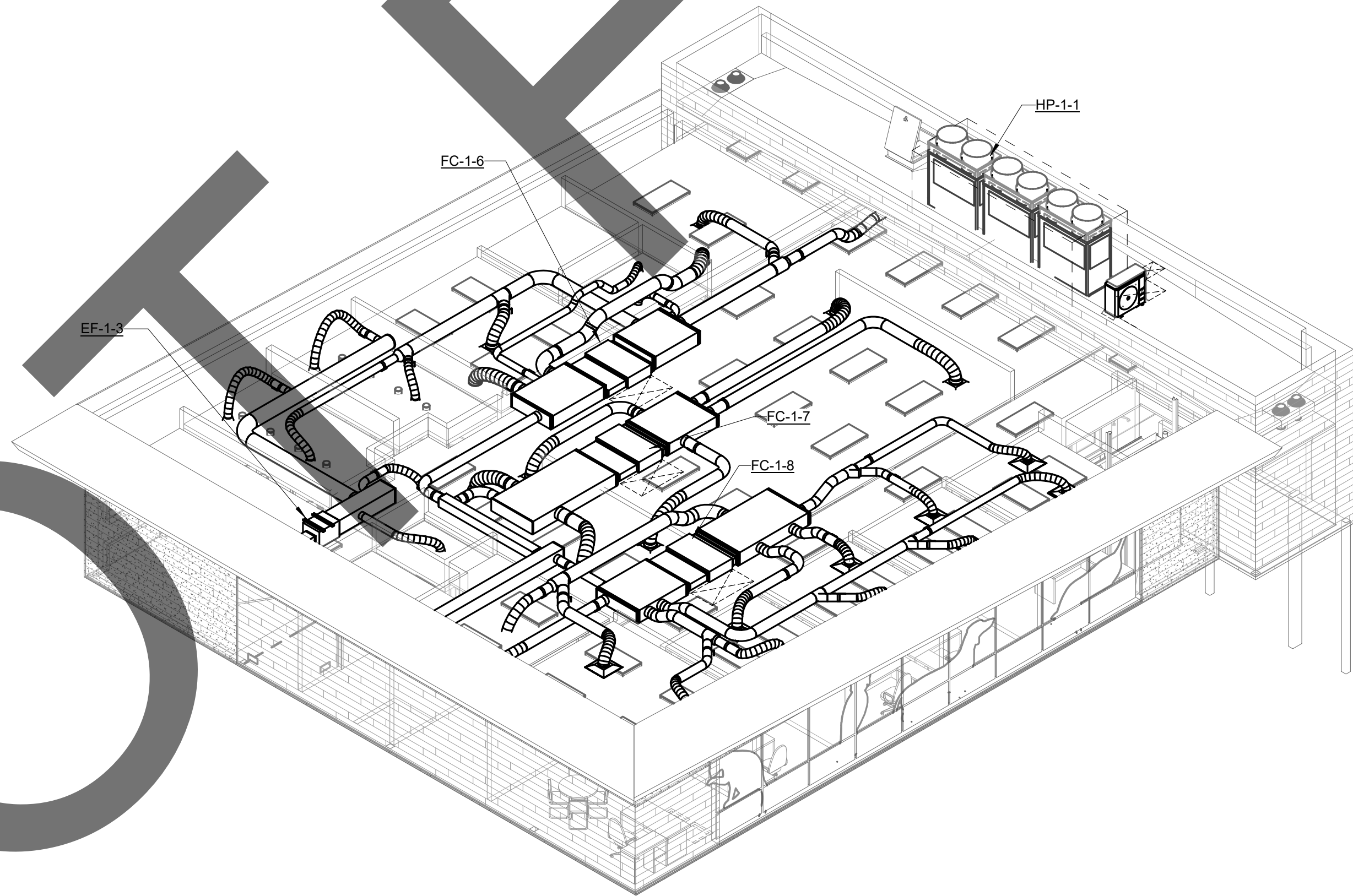
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1 PARTIAL ISOMETRIC VIEW AT 1ST FLOOR OFFICES
NO SCALE



2 PARTIAL ISOMETRIC VIEW AT LOBBY AND MPR
NO SCALE

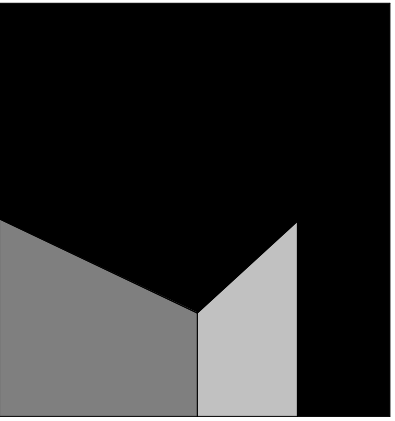
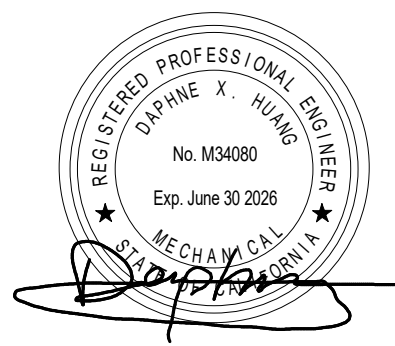


3 PARTIAL ISOMETRIC VIEW AT 2ND FLOOR OFFICES
NO SCALE

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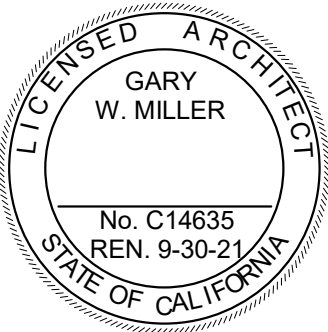
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initials	date	phase

revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number: 1227
Drawn By: Author
Checked By: PS
Issue Date: 05/17/24

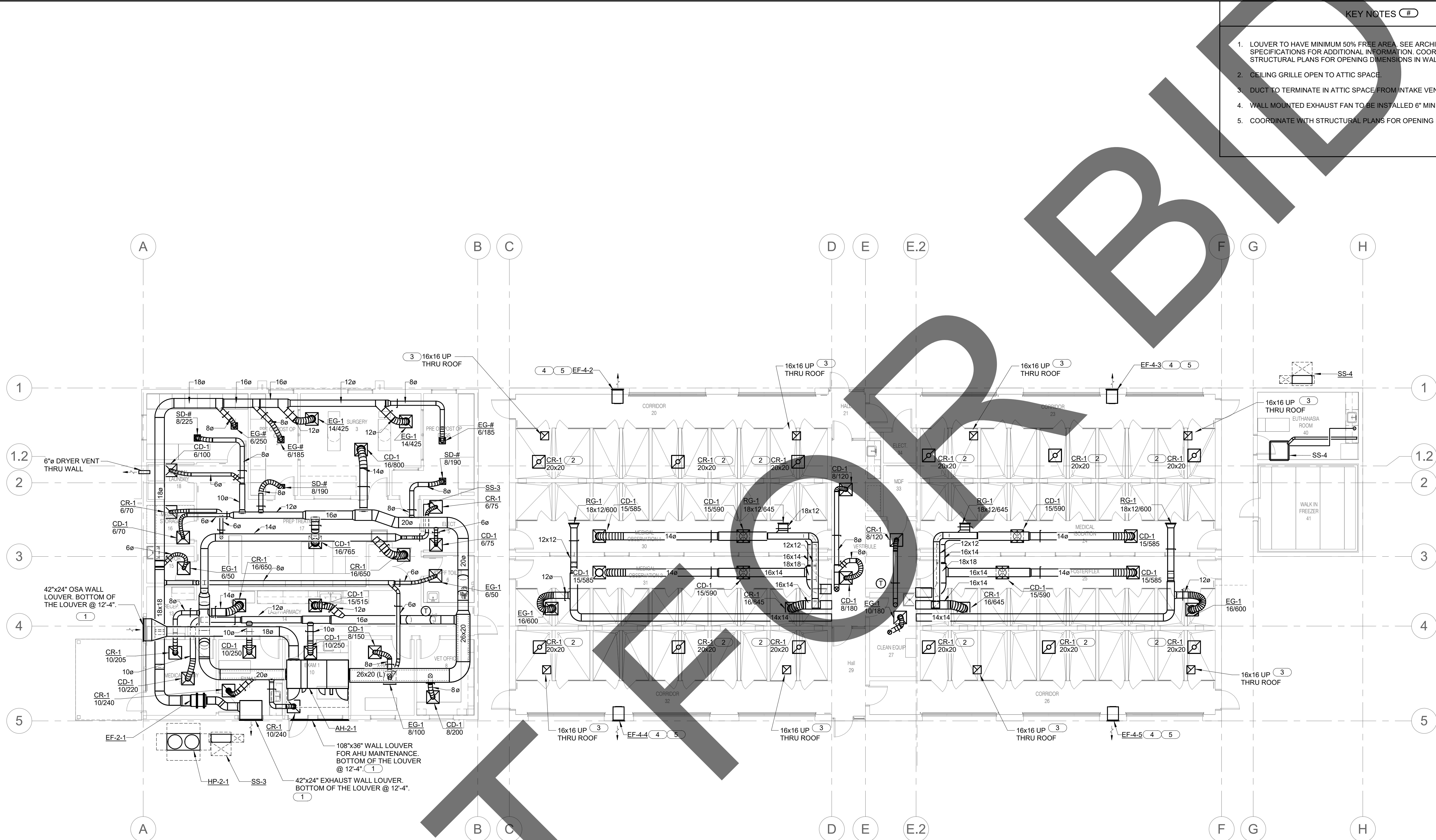
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ADMINISTRATION
BUILDING
MECHANICAL
ISOMETRIC VIEWS

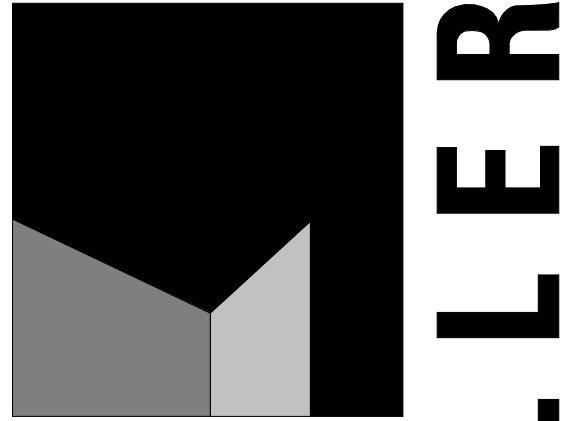
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MA-105

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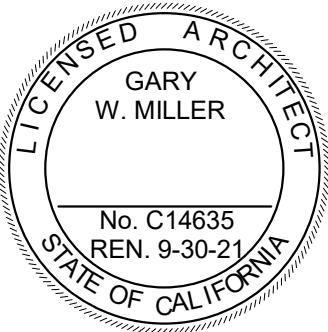
- KEY NOTES (C#)
1. LOUVER TO HAVE MINIMUM 50% FREE AREA. SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE WITH STRUCTURAL PLANS FOR OPENING DIMENSIONS IN WALL.
 2. CEILING GRILLE OPEN TO ATTIC SPACE.
 3. DUCT TO TERMINATE IN ATTIC SPACE FROM INTAKE VENTILATOR ON ROOF.
 4. WALL MOUNTED EXHAUST FAN TO BE INSTALLED 6" MINIMUM BELOW CEILING.
 5. COORDINATE WITH STRUCTURAL PLANS FOR OPENING DIMENSIONS IN WALL.



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sheet name

MEDICAL CLINIC
MECHANICAL FLOOR
PLAN

sheet number

MBC-101

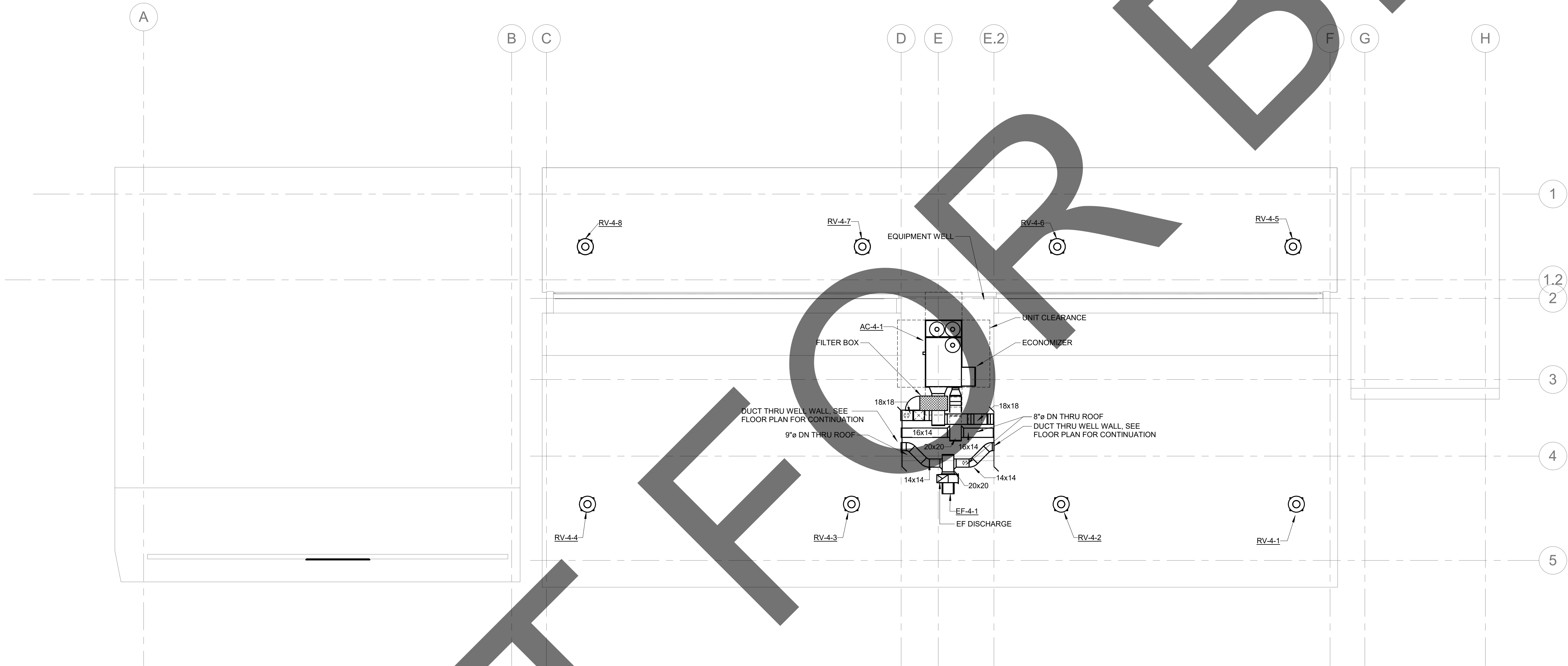
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MEDICAL CLINIC MECHANICAL ROOF PLAN

1/8" = 1'-0"

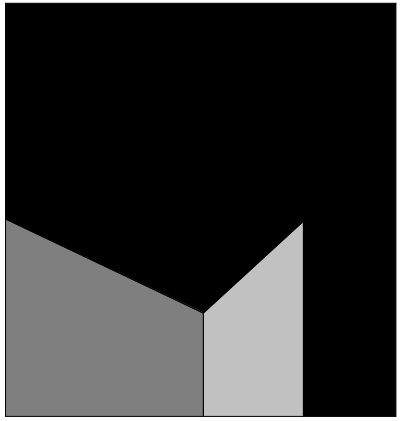


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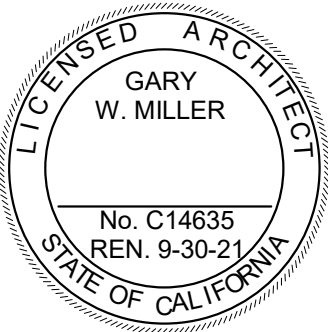


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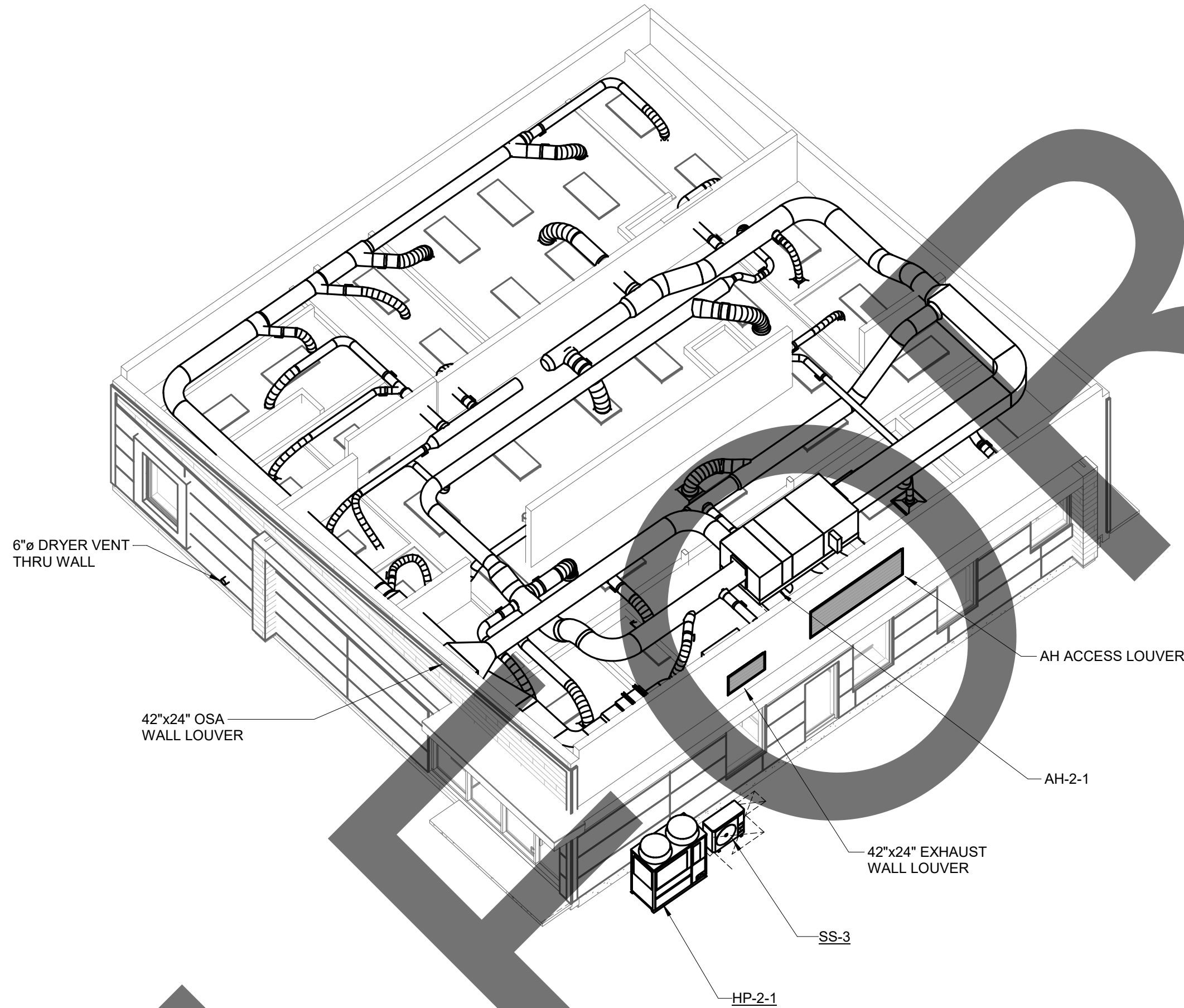
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Issue Date:	05/17/24

sheet name

MEDICAL CLINIC
MECHANICAL ROOF
PLAN

sheet number

MBC-102



1 ISOMETRIC VIEW AT MEDICAL BUILDING
NO SCALE



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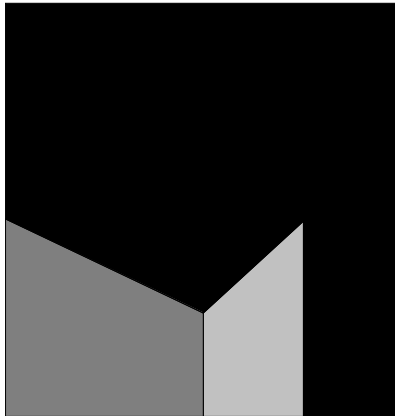
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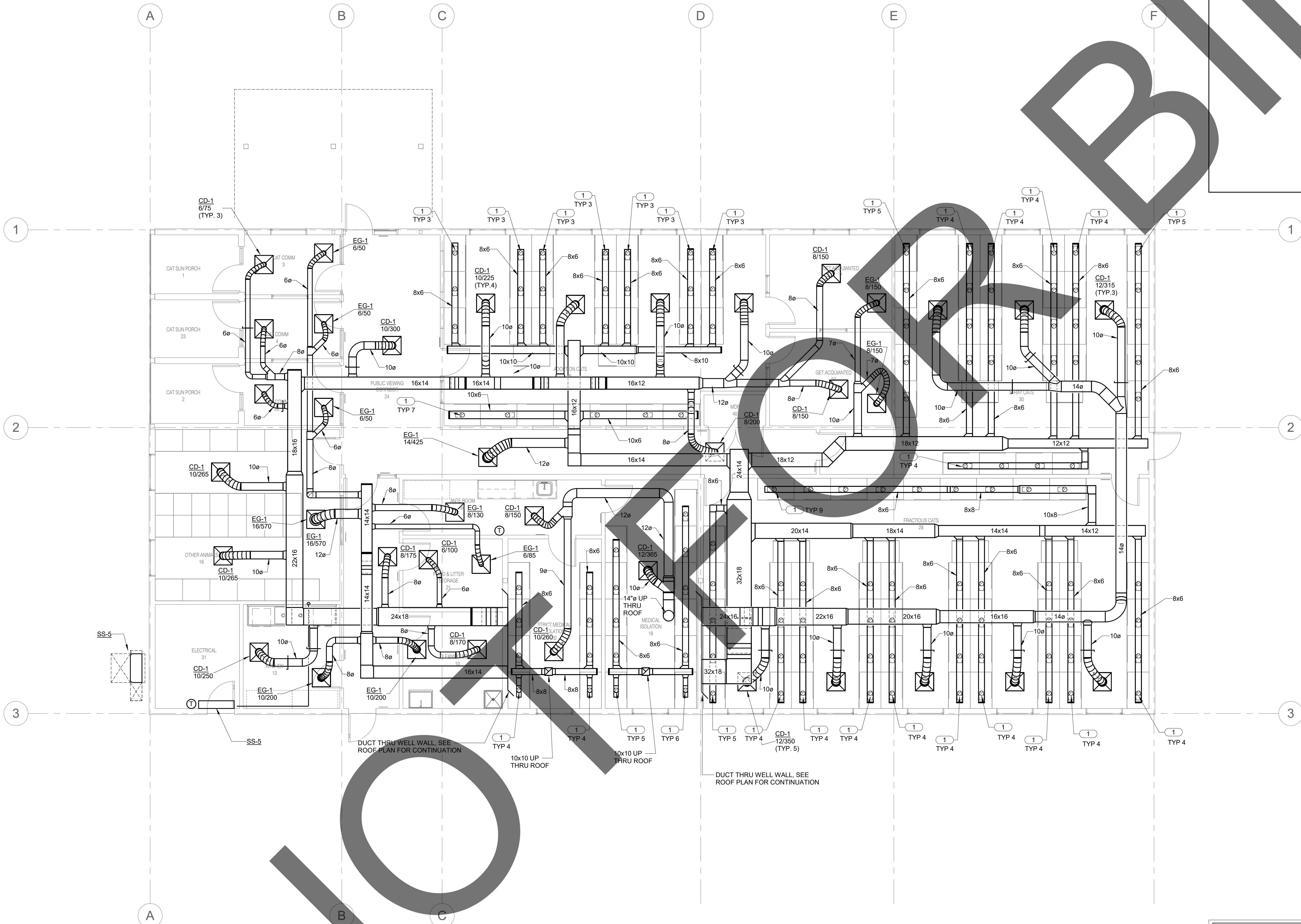
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MEDICAL CLINIC
MECHANICAL
ISOMETRIC VIEWS

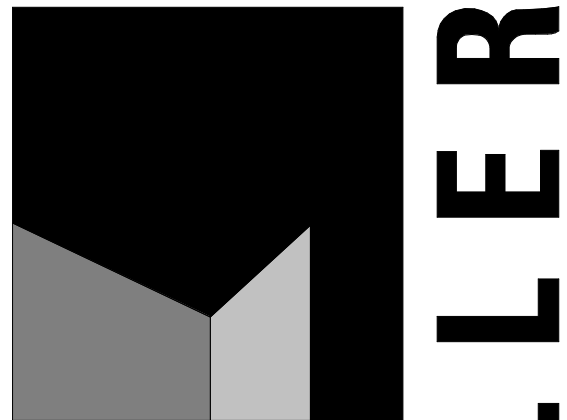
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MBC-103



KEY NOTES (#)

1. 6" DUCT DOWN TO CAGE EXHAUST SYSTEM CONNECTION. PROVIDE MANUAL BALANCING DAMPER PRIOR TO CONNECTION. EACH INDIVIDUAL CAGE TO RECEIVE 20 CFM. 6" DUCT DROP TO BE BALANCED TO TOTAL CONNECTED CAGE CFM LOAD. SEE SHEETS AE7 AND AE8 FOR ADDITIONAL INFORMATION.



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sheet name

CAT & OTHER
ANIMALS BUILDING
MECHANICAL FLOOR
PLAN

sheet number

MD-101

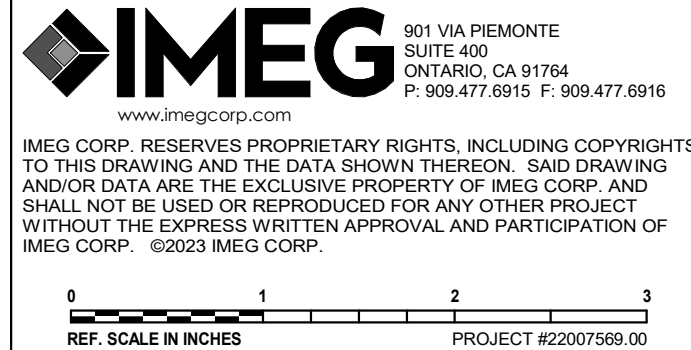
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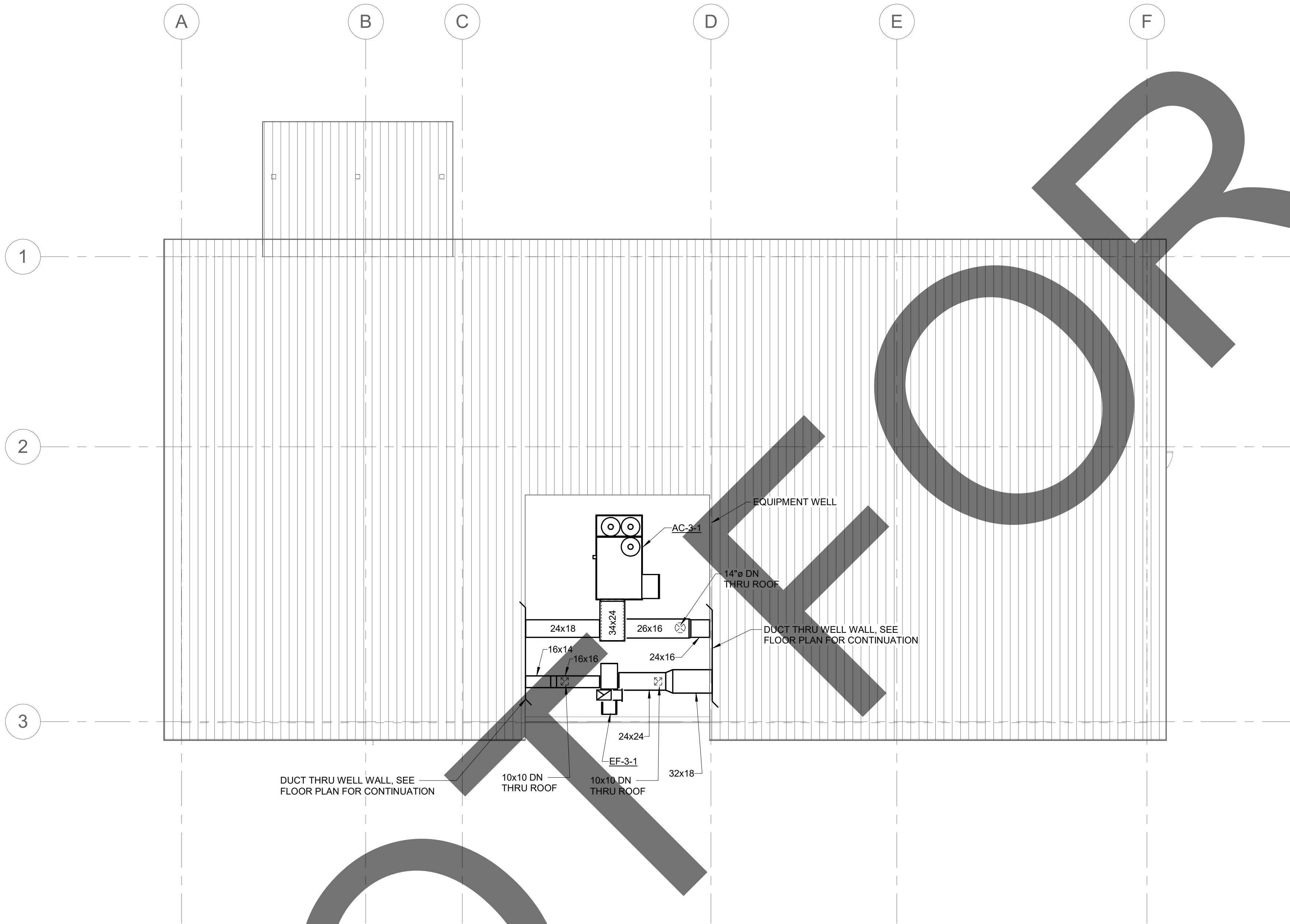


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CAT & OTHER ANIMALS BUILDING MECHANICAL FLOOR PLAN

3/16" = 1'-0"





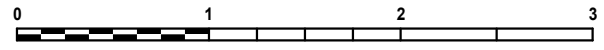
CAT & OTHER ANIMALS BUILDING MECHANICAL ROOF PLAN

1/8" = 1'-0"

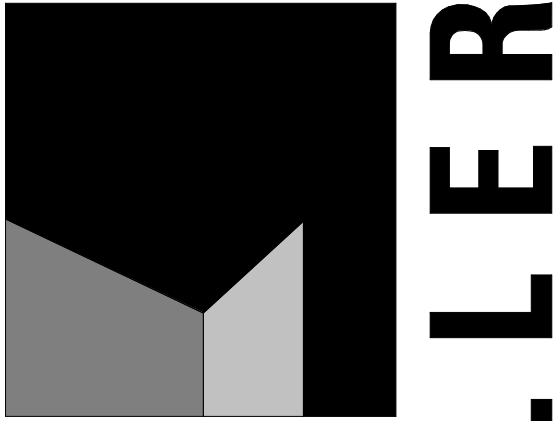


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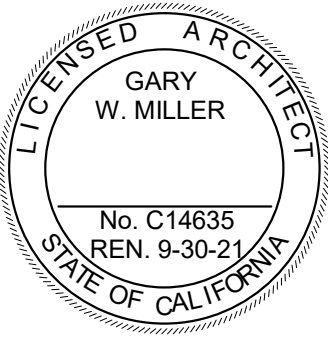


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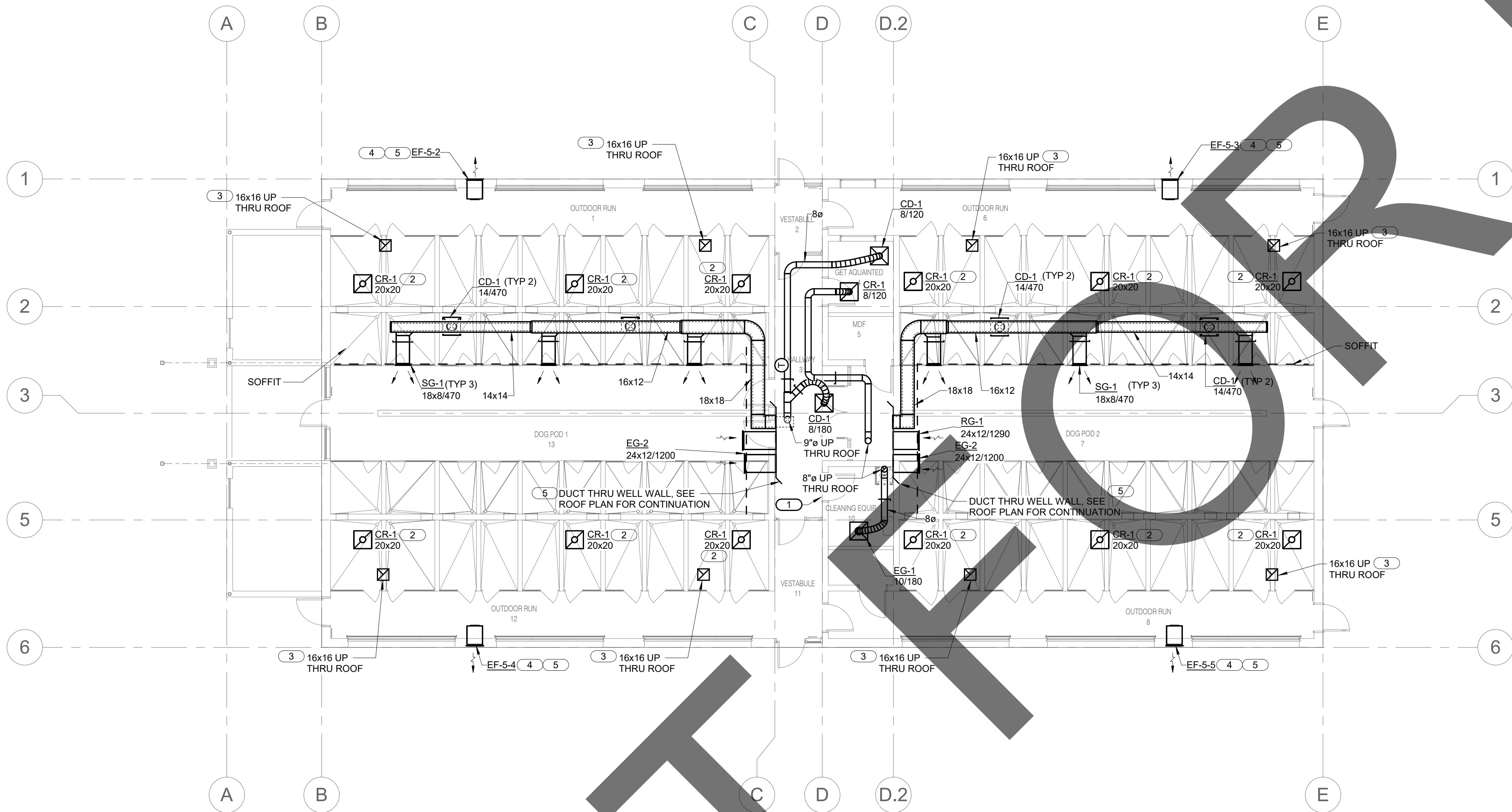
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CAT & OTHER
ANIMALS BUILDING
MECHANICAL ROOF
PLAN

sheet number

MD-102



ADOPTION DOG BUILDING 1 MECHANICAL FLOOR PLAN

1/8" = 1'-0"

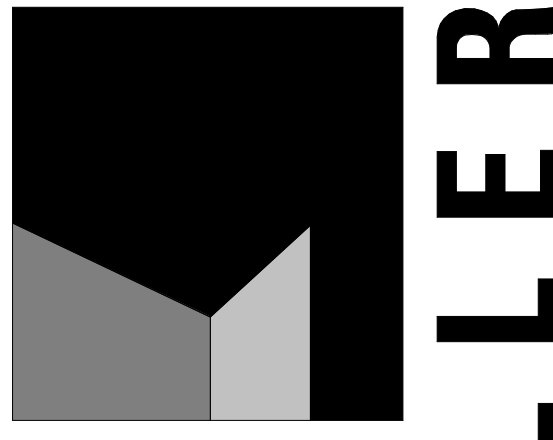
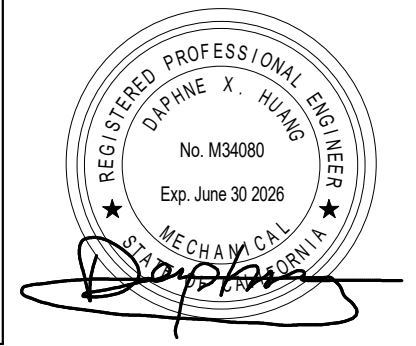
KEY NOTES

1. 24x24 DOOR LOUVER, SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CEILING GRILLE OPEN TO ATTIC SPACE.
3. DUCT TO TERMINATE IN ATTIC SPACE FROM INTAKE VENTILATOR ON ROOF.
4. WALL MOUNTED EXHAUST FAN TO BE INSTALLED 6" MINIMUM BELOW CEILING.
5. COORDINATE WITH STRUCTURAL PLANS FOR OPENING DIMENSIONS IN WALL.

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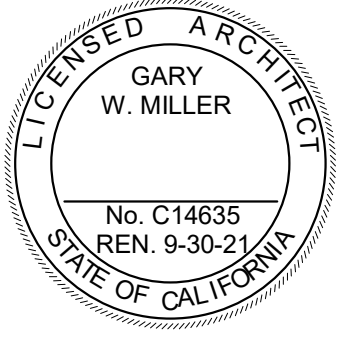
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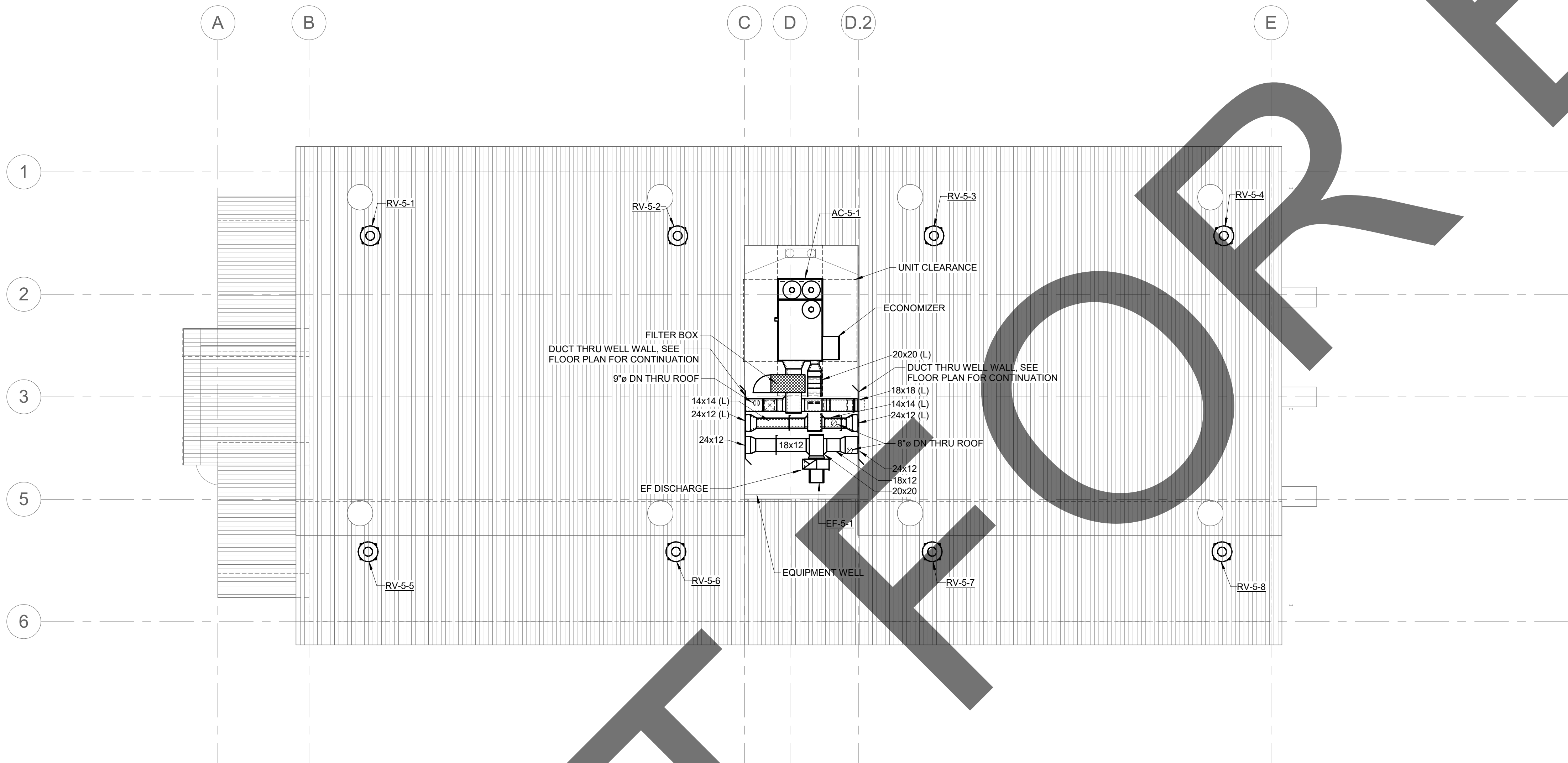
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ADOPTION DOG
BUILDING 1
MECHANICAL FLOOR
PLAN

sheet number

ME-101

Sheet Of Sheets



1

ADOPTION DOG BUILDING 1 MECHANICAL ROOF PLAN

1/8" = 1'-0"



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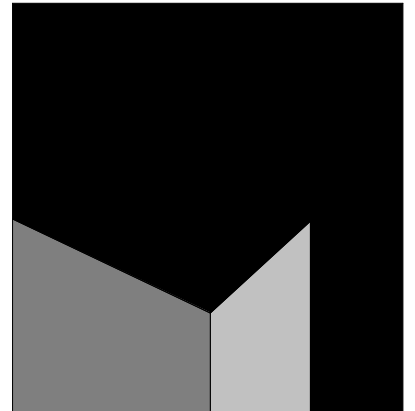
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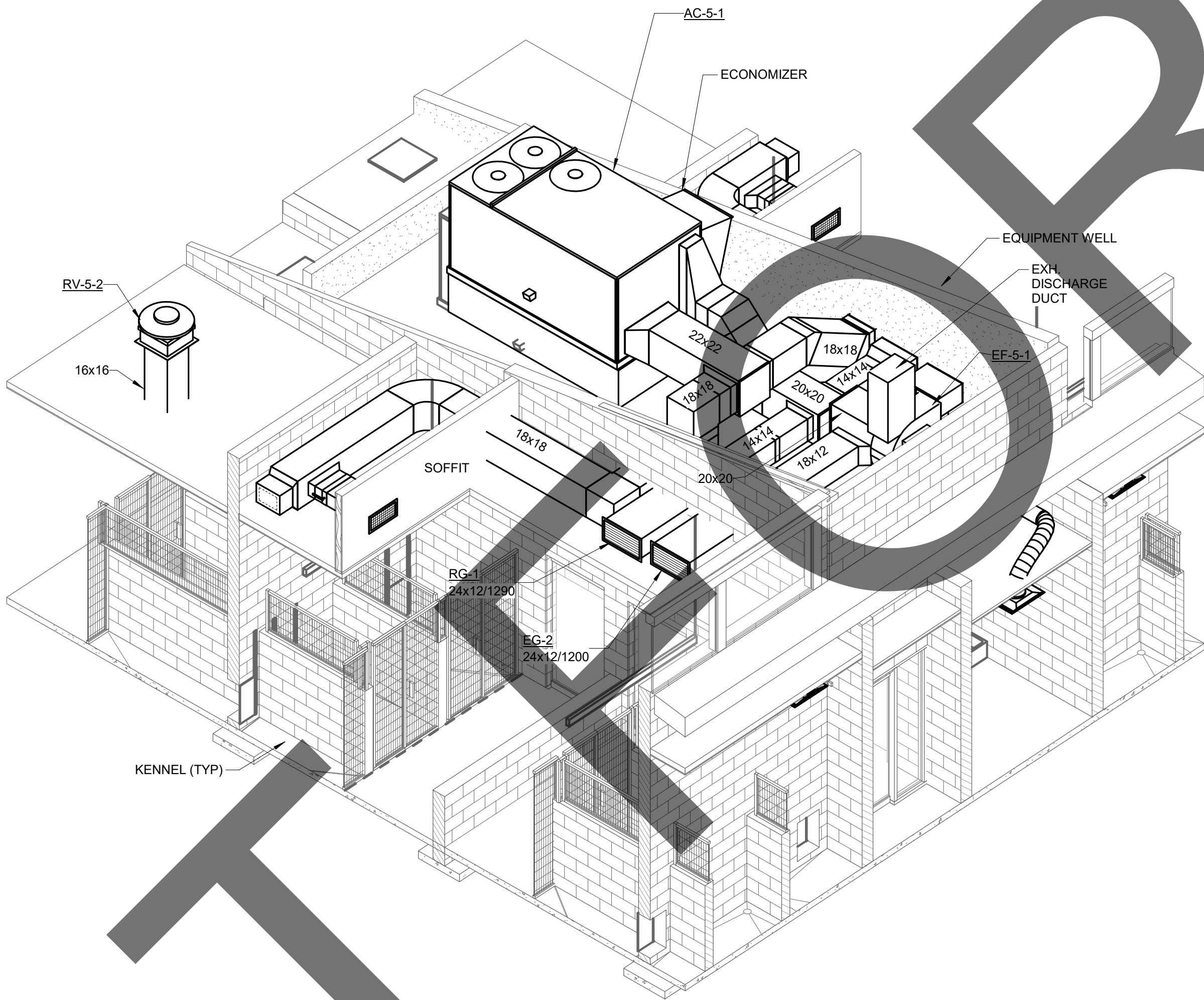
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ADOPTION DOG
BUILDING 1
MECHANICAL ROOF
PLAN

sheet number

ME-102



1 TYPICAL ISOMETRIC VIEW AT KENNEL WELL
NO SCALE



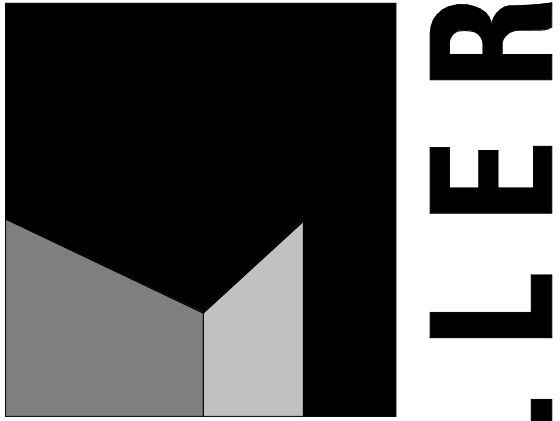
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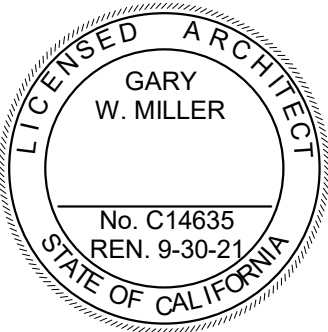
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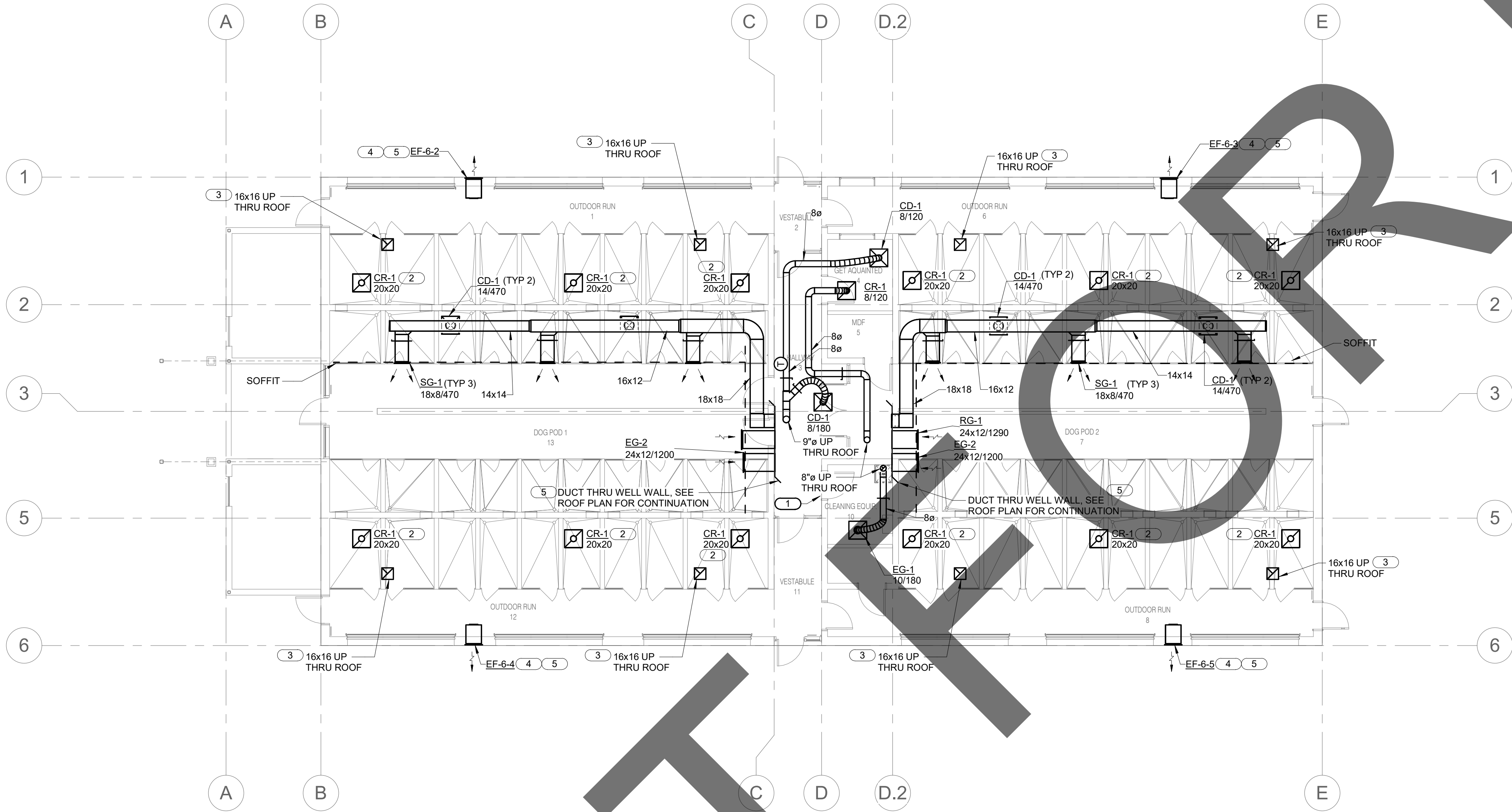
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ADOPTION DOG
BUILDING ISOMETRIC
VIEWS

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ADOPTION DOG BUILDING 2 MECHANICAL FLOOR PLAN

1/8" = 1'-0"

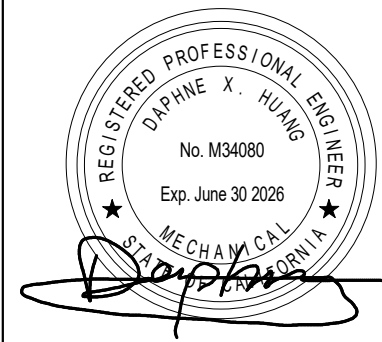
KEY NOTES (#)

1. 24x24 DOOR LOUVER, SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CEILING GRILLE OPEN TO ATTIC SPACE.
3. DUCT TO TERMINATE IN ATTIC SPACE FROM INTAKE VENTILATOR ON ROOF.
4. WALL MOUNTED EXHAUST FAN TO BE INSTALLED 6" MINIMUM BELOW CEILING.
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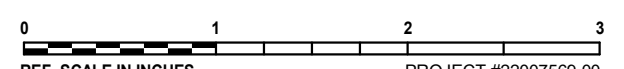


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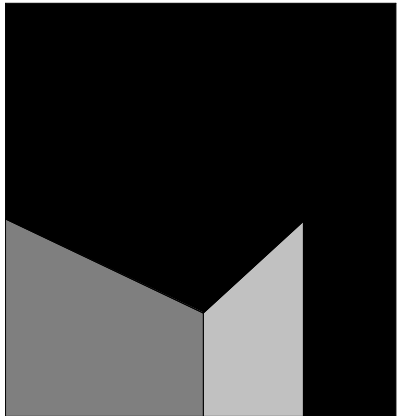
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MECHANICAL



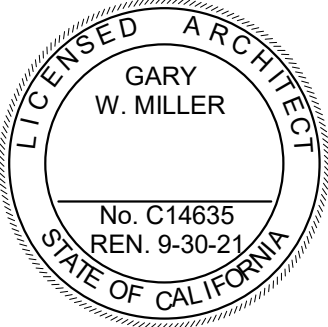
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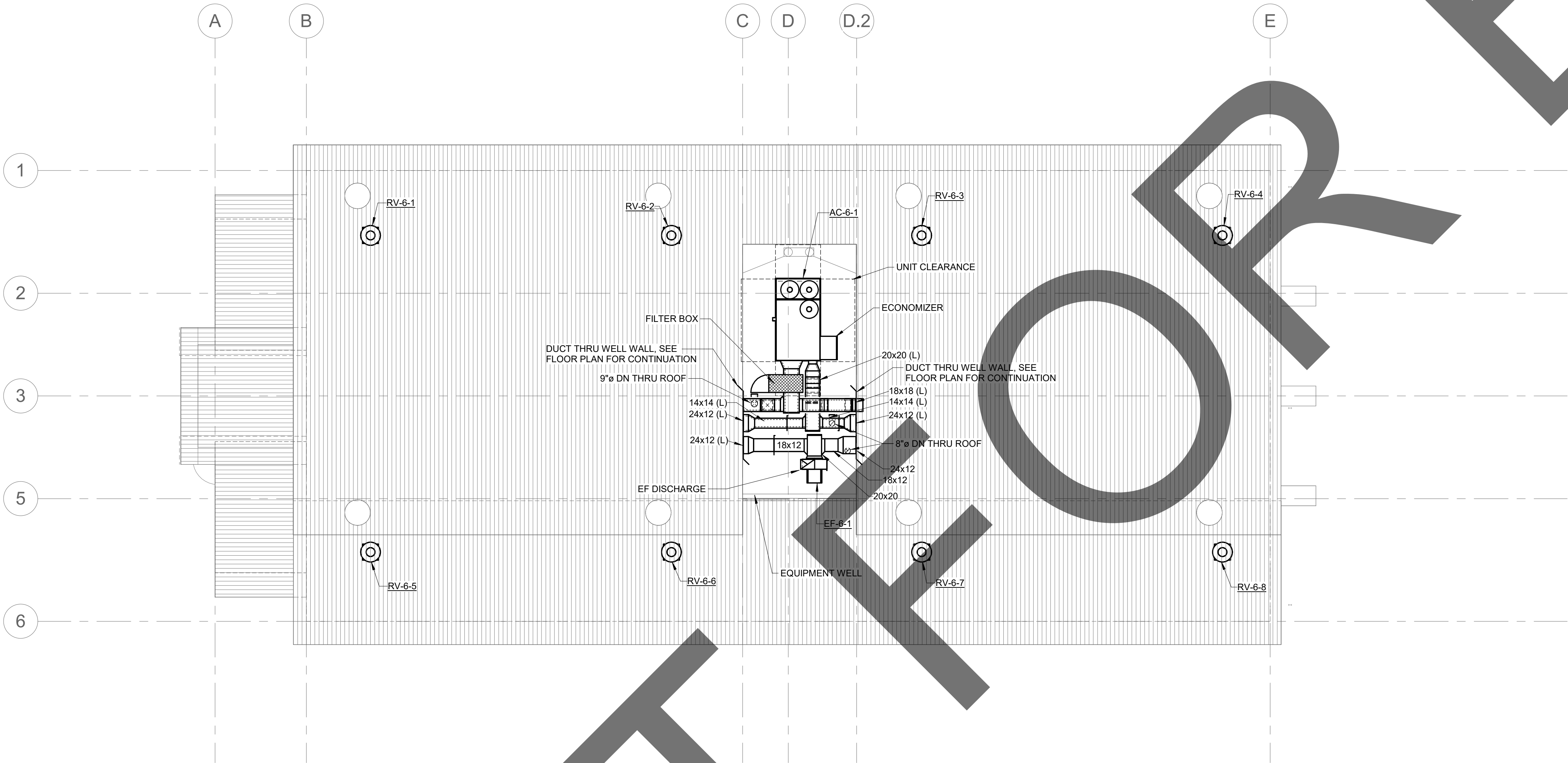
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BUILDING 2
MECHANICAL FLOOR
PLAN

sheet number

MF-101

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ADOPTION DOG BUILDING 2 MECHANICAL ROOF PLAN

1/8" = 1'-0"



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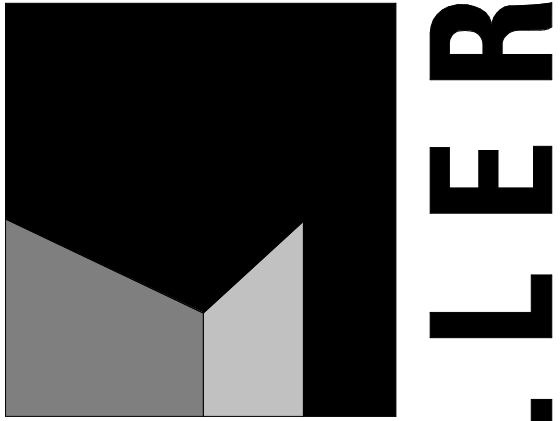
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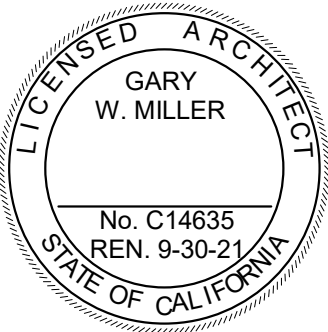
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revisions/addenda

#	Date	Comment
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ANIMAL CARE CENTER

18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY

project information

Project Number:	1227
Drawn By:	Author
Checked By:	PS
Issue Date:	05/17/24

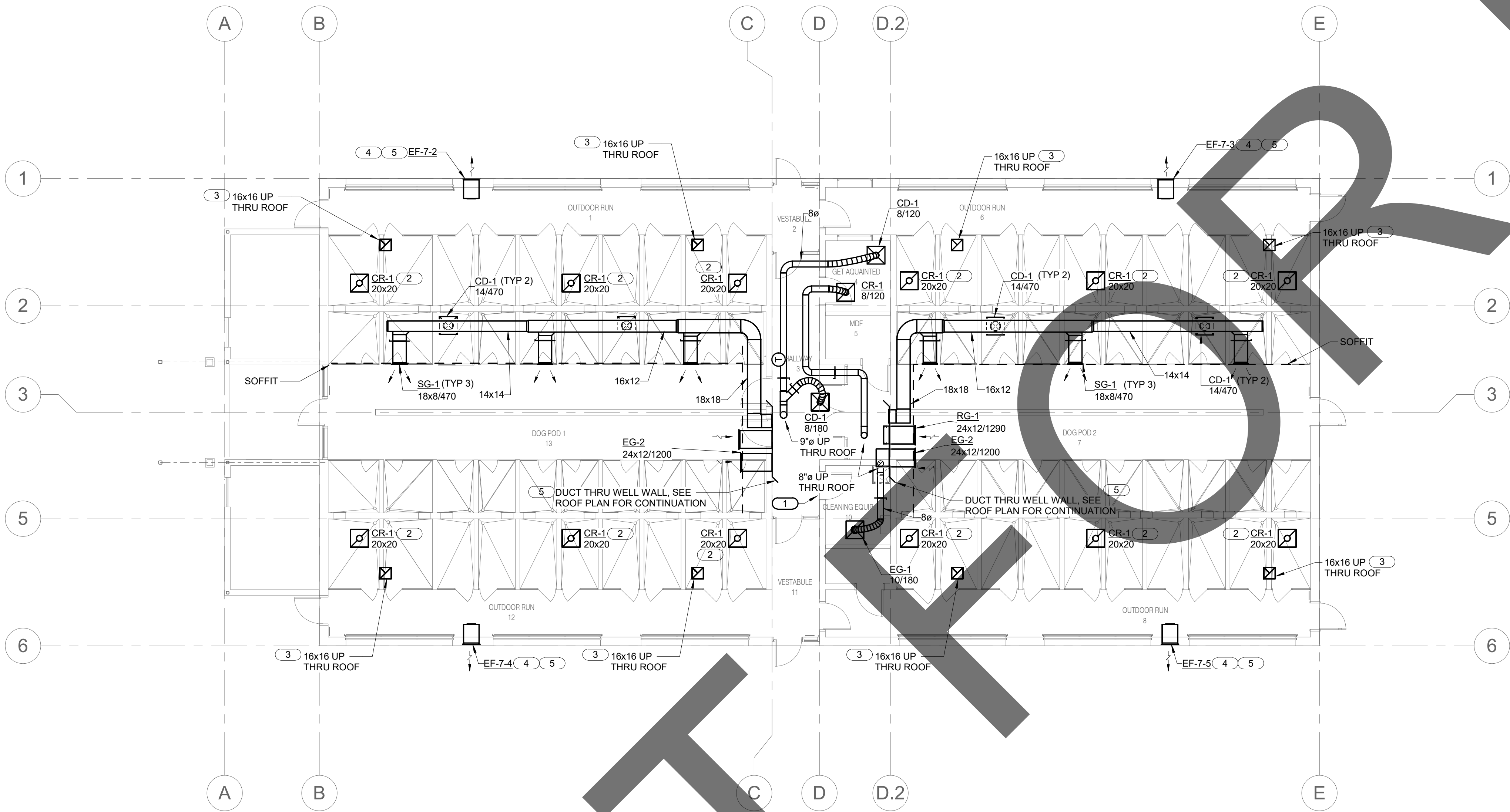
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ADOPTION DOG
BUILDING 2
MECHANICAL ROOF
PLAN

sheet number

MF-102

Sheet Of Sheets



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ADOPTION DOG BUILDING 3 MECHANICAL FLOOR PLAN

1/8" = 1'-0"

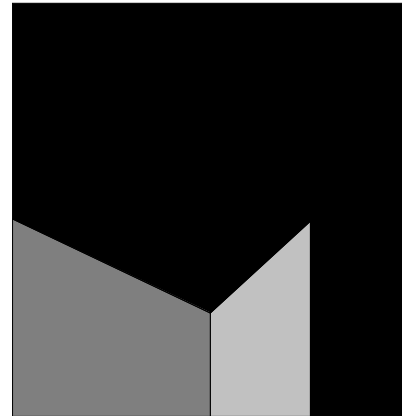
KEY NOTES (#)

1. 24x24 DOOR LOUVER, SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CEILING GRILLE OPEN TO ATTIC SPACE.
3. DUCT TO TERMINATE IN ATTIC SPACE FROM INTAKE VENTILATOR ON ROOF.
4. WALL MOUNTED EXHAUST FAN TO BE INSTALLED 6" MINIMUM BELOW CEILING.
5. COORDINATE WITH STRUCTURAL PLANS FOR OPENING DIMENSIONS IN WALL.

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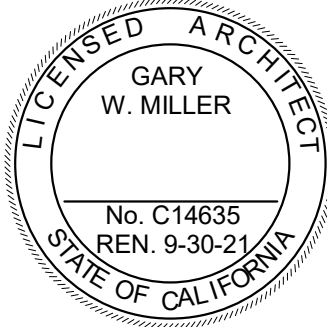
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PROJECT #22007569.00



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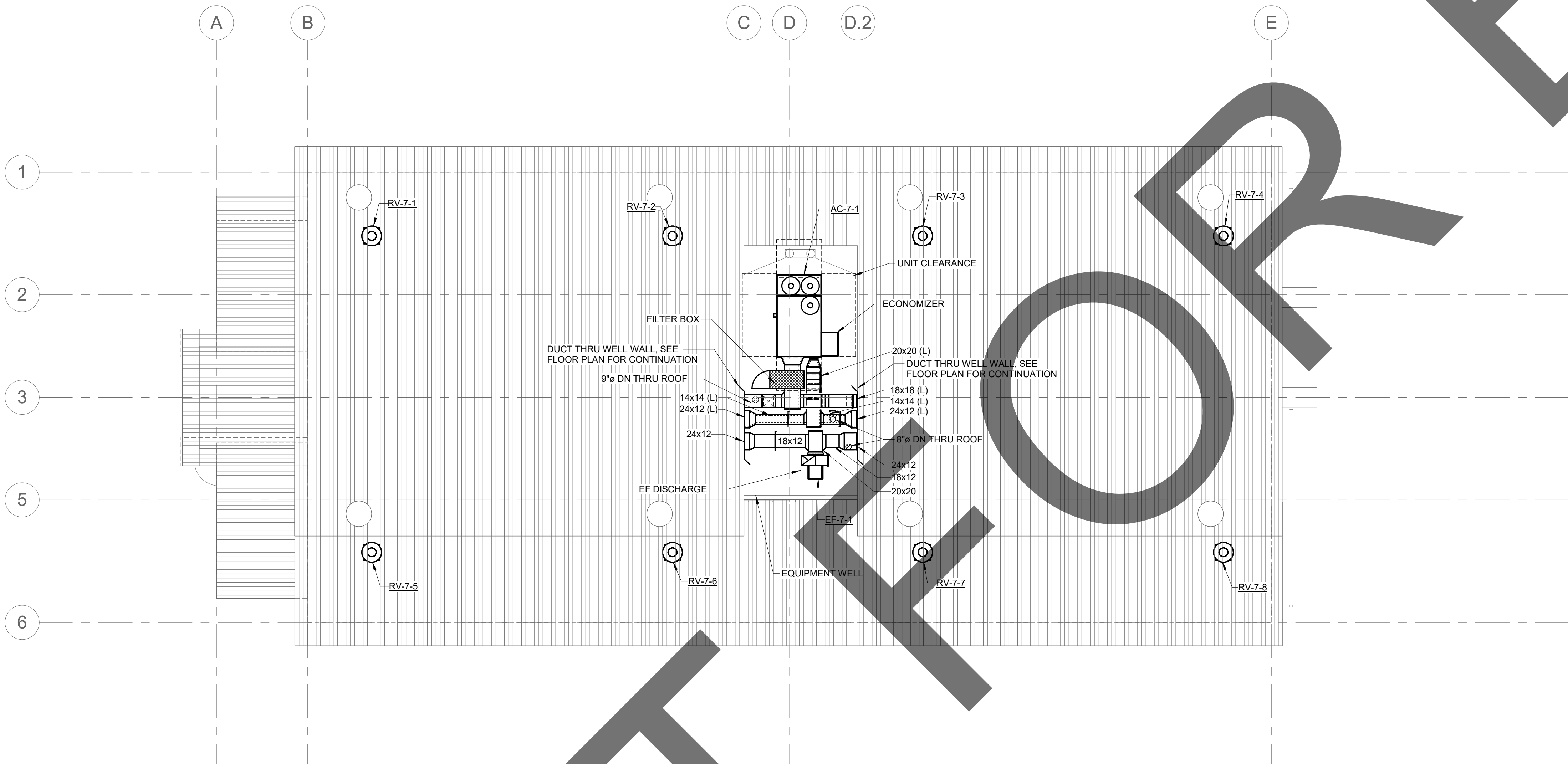
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ADOPTION DOG
BUILDING 3
MECHANICAL FLOOR
PLAN

sheet number

MG-101

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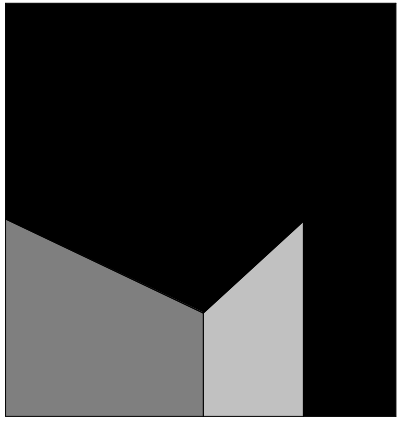
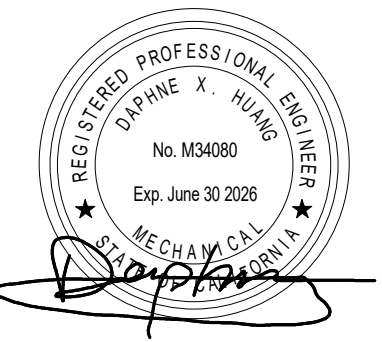
ADOPTION DOG BUILDING 3 MECHANICAL ROOF PLAN

1/8" = 1'-0"

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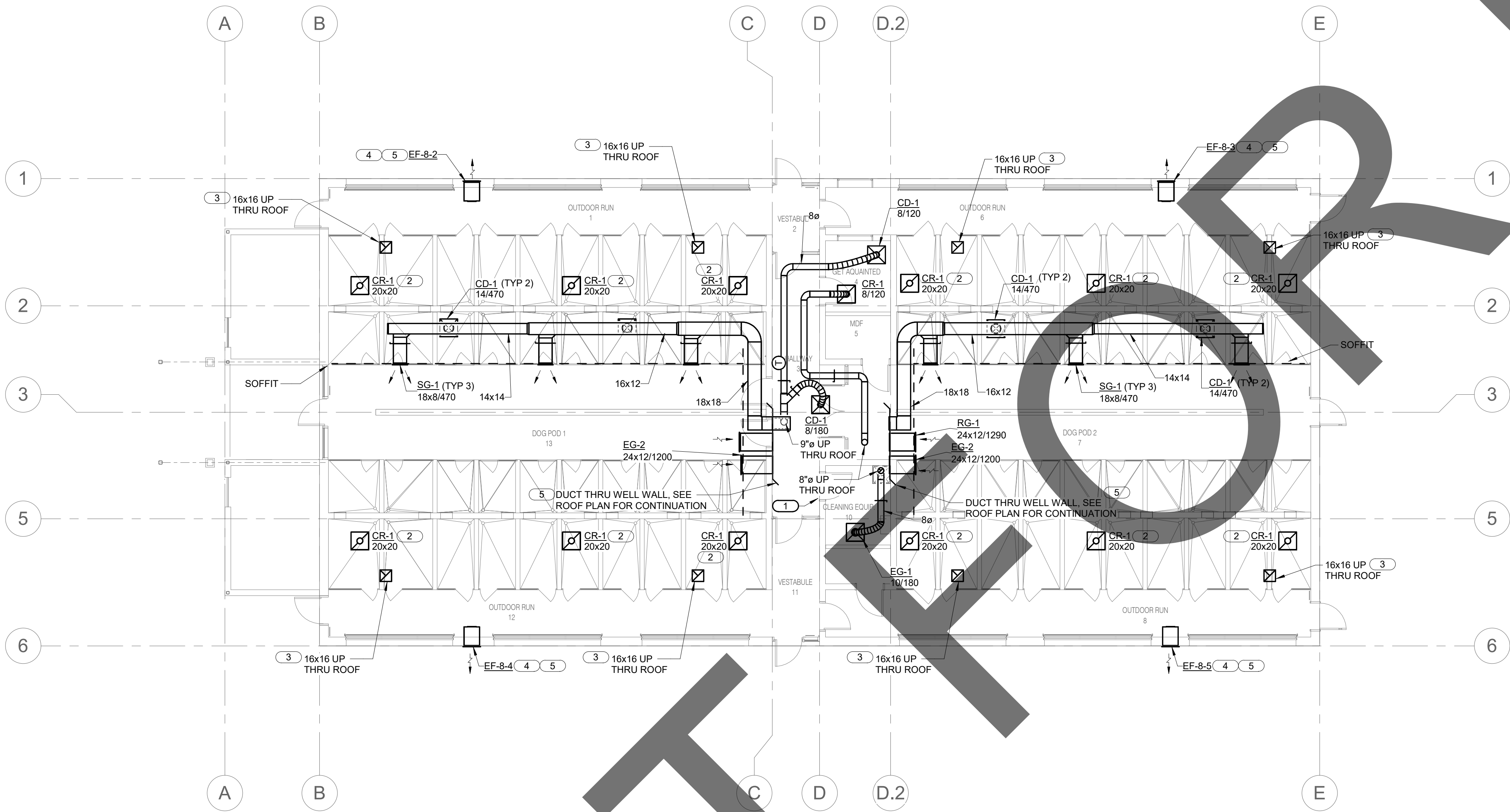
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ADOPTION DOG
BUILDING 3
MECHANICAL ROOF
PLAN

sheet number

MG-102

Sheet Of Sheets



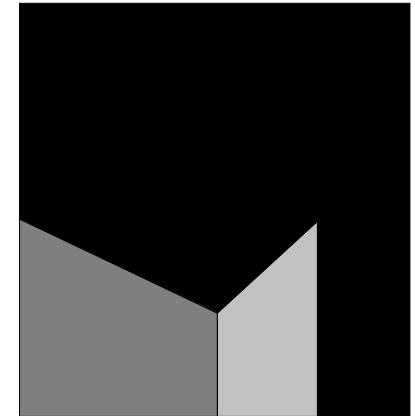
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STRAY DOG BUILDING MECHANICAL FLOOR PLAN

1/8" = 1'-0"

KEY NOTES

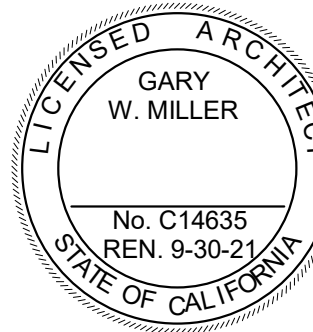
1. 24x24 DOOR LOUVER, SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CEILING GRILLE OPEN TO ATTIC SPACE.
3. DUCT TO TERMINATE IN ATTIC SPACE FROM INTAKE VENTILATOR ON ROOF.
4. WALL MOUNTED EXHAUST FAN TO BE INSTALLED 6" MINIMUM BELOW CEILING.
5. COORDINATE WITH STRUCTURAL PLANS FOR OPENING DIMENSIONS IN WALL.



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STRAY DOG
BUILDING
MECHANICAL FLOOR
PLAN

sheet number

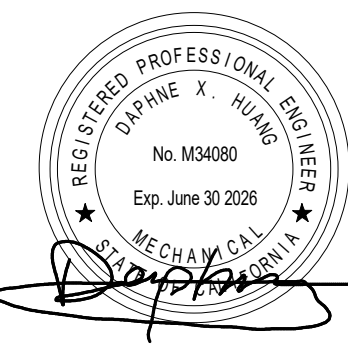
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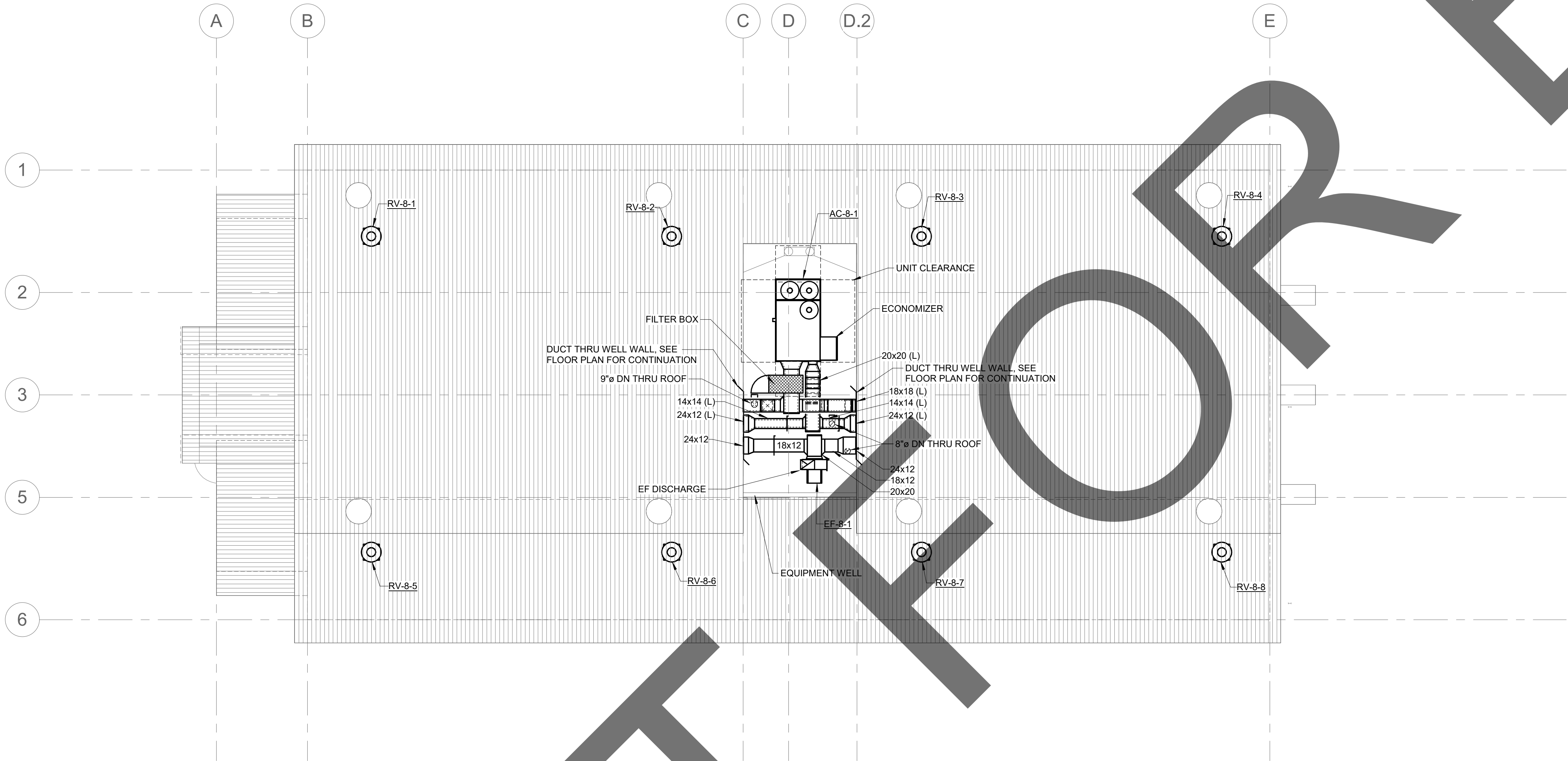


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STRAY DOG BUILDING MECHANICAL ROOF PLAN

1/8" = 1'-0"



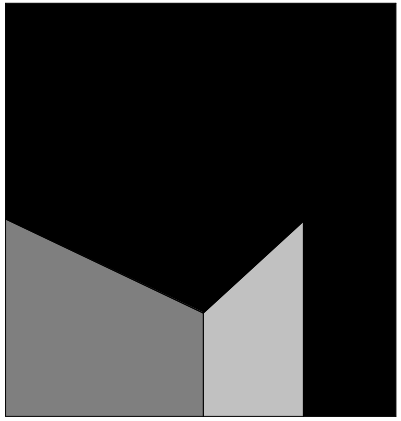
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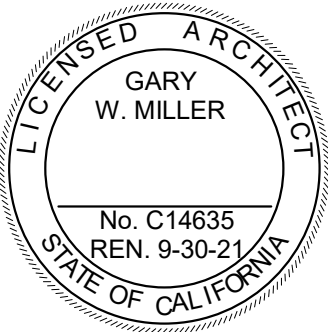


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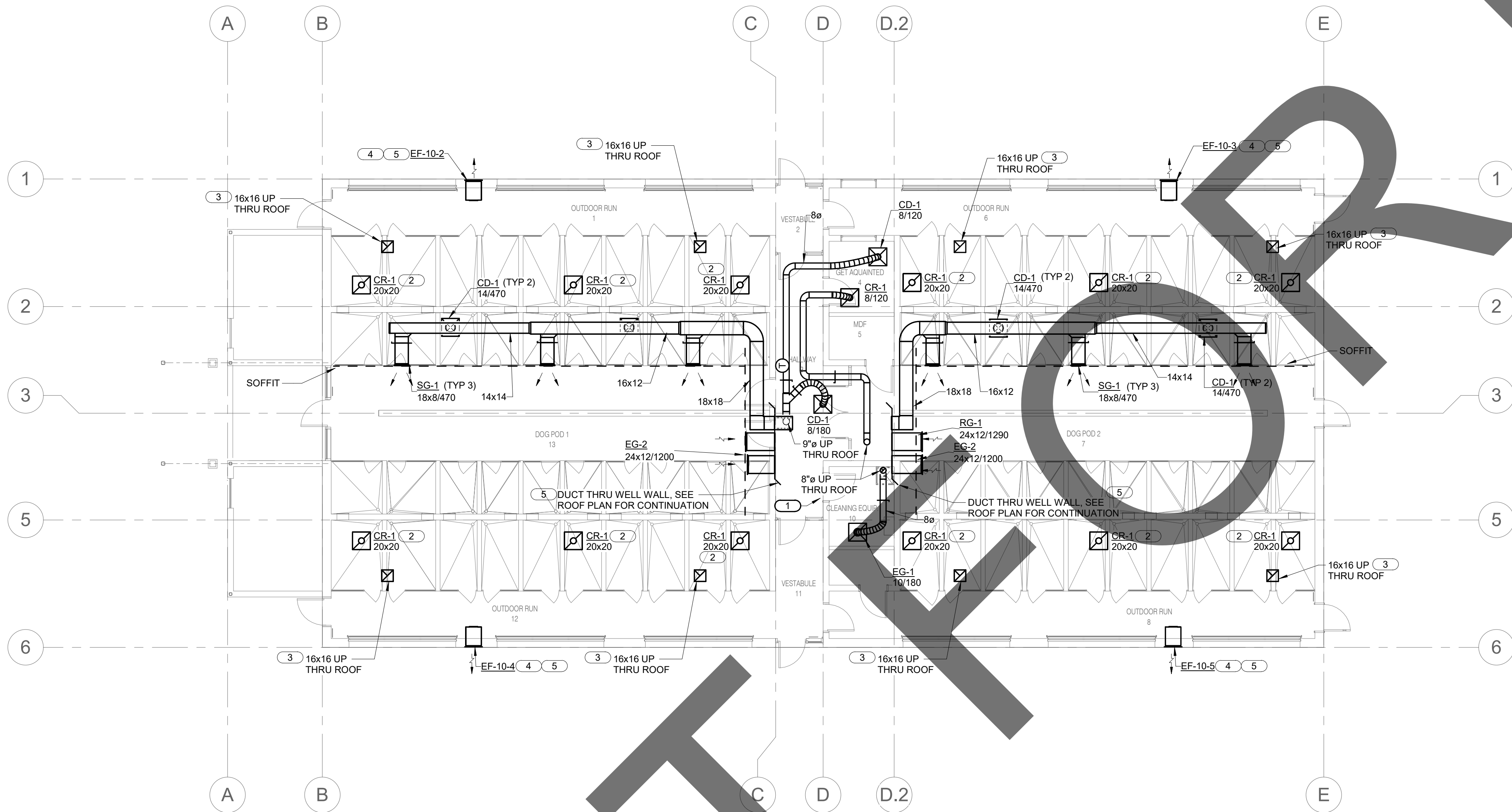
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STRAY DOG
BUILDING
MECHANICAL ROOF
PLAN

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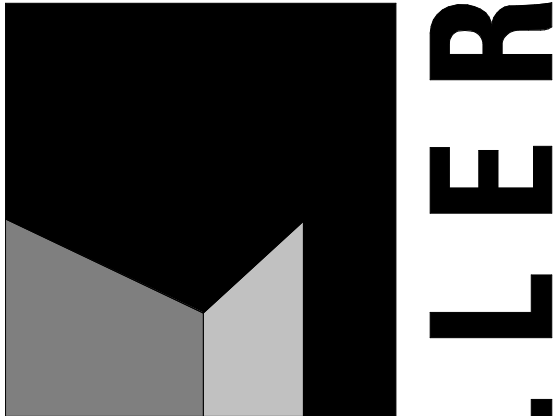
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KEY NOTES (#)

1. 24x24 DOOR LOUVER, SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CEILING GRILLE OPEN TO ATTIC SPACE.
3. DUCT TO TERMINATE IN ATTIC SPACE FROM INTAKE VENTILATOR ON ROOF.
4. WALL MOUNTED EXHAUST FAN TO BE INSTALLED 6" MINIMUM BELOW CEILING.
5. COORDINATE WITH STRUCTURAL PLANS FOR OPENING DIMENSIONS IN WALL.



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sheet name

ADOPTION DOG
BUILDING 4
MECHANICAL FLOOR
PLAN

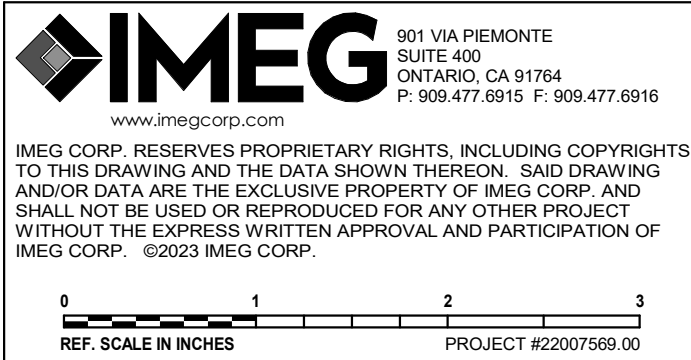
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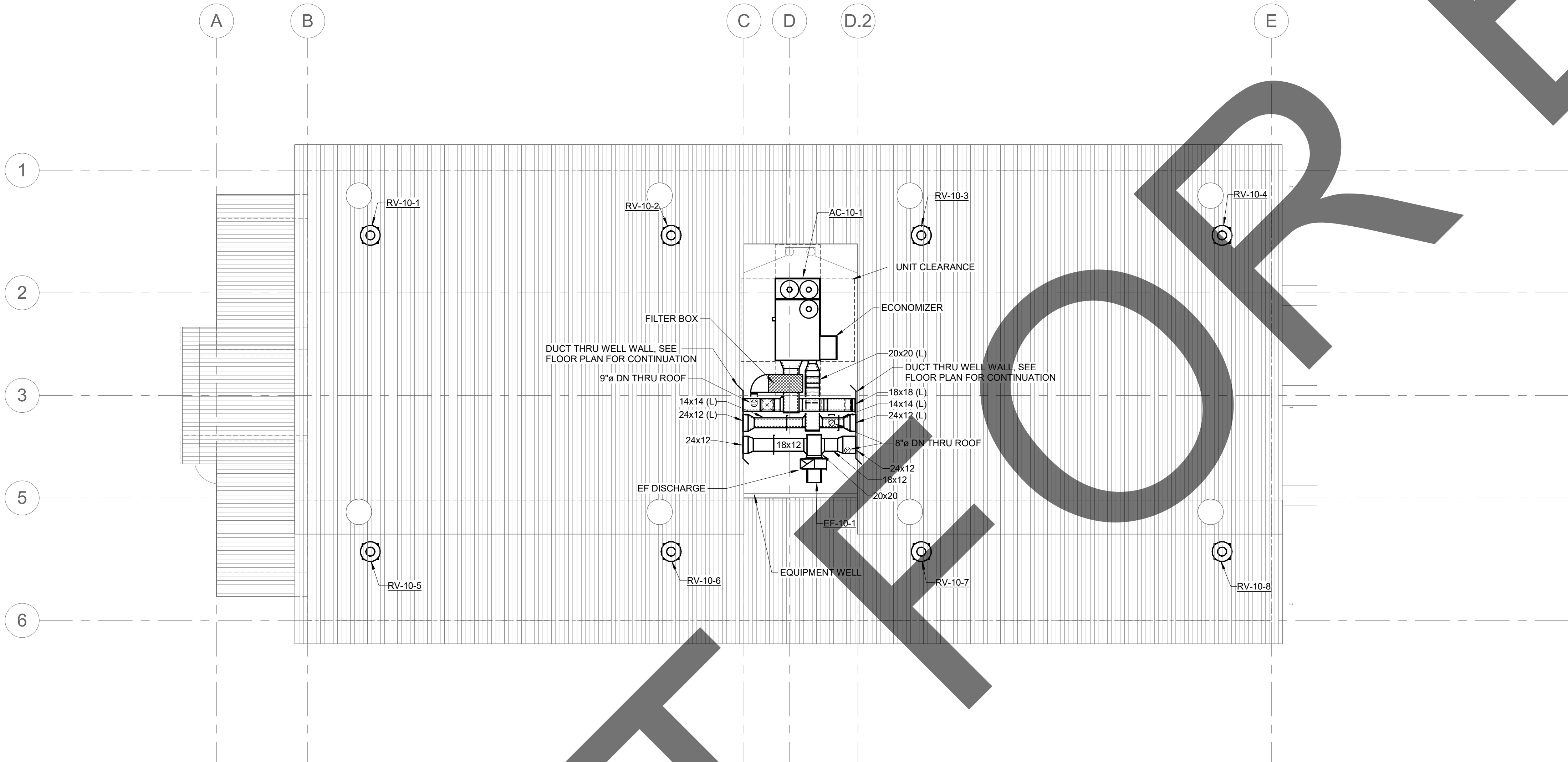
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ADOPTION DOG BUILDING 4 MECHANICAL FLOOR PLAN





1

ADOPTION DOG BUILDING 4 MECHANICAL ROOF PLAN

1/8" = 1'-0"

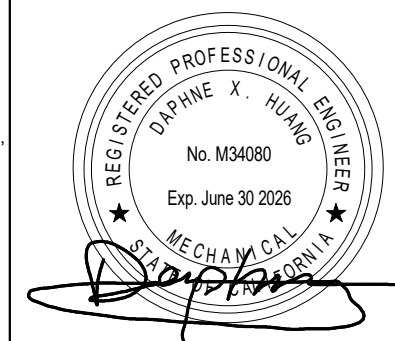
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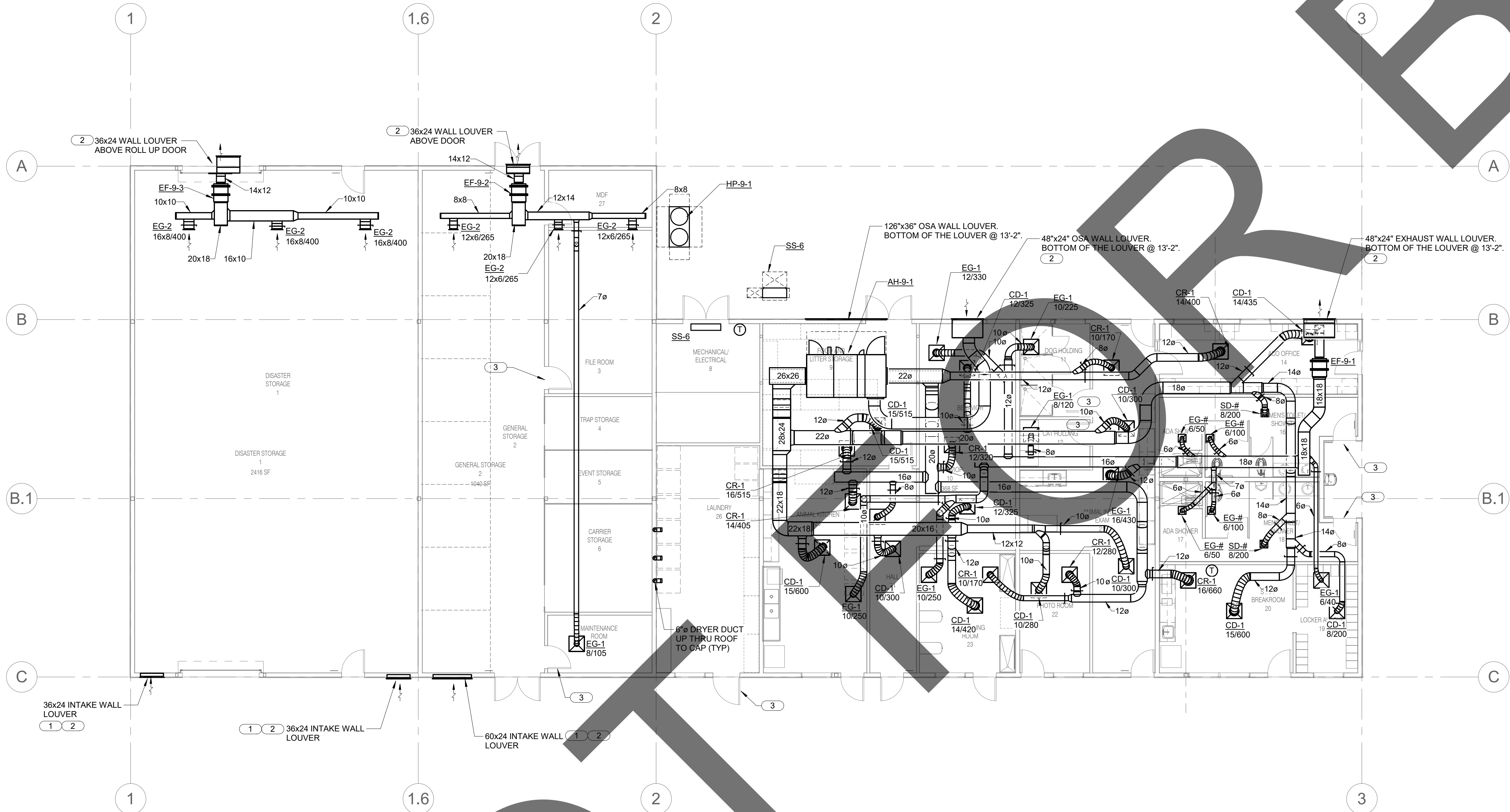
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BUILDING 4
MECHANICAL ROOF
PLAN

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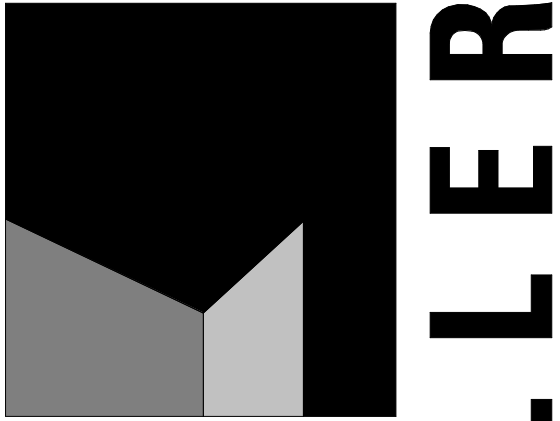
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Sheet Of Sheets



KEY NOTES (#)

1. BOTTOM OF LOUVER TO BE MAXIMUM 12" ABOVE FINISHED FLOOR.
2. LOUVER TO HAVE MINIMUM 50% FREE AREA. SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE WITH STRUCTURAL PLANS FOR OPENING DIMENSIONS IN WALL.
3. 24x24 DOOR LOUVER, SEE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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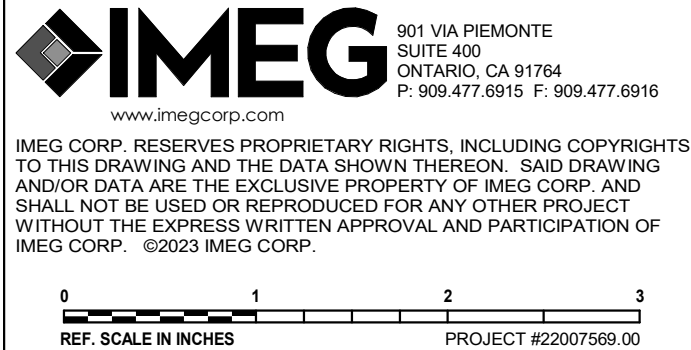
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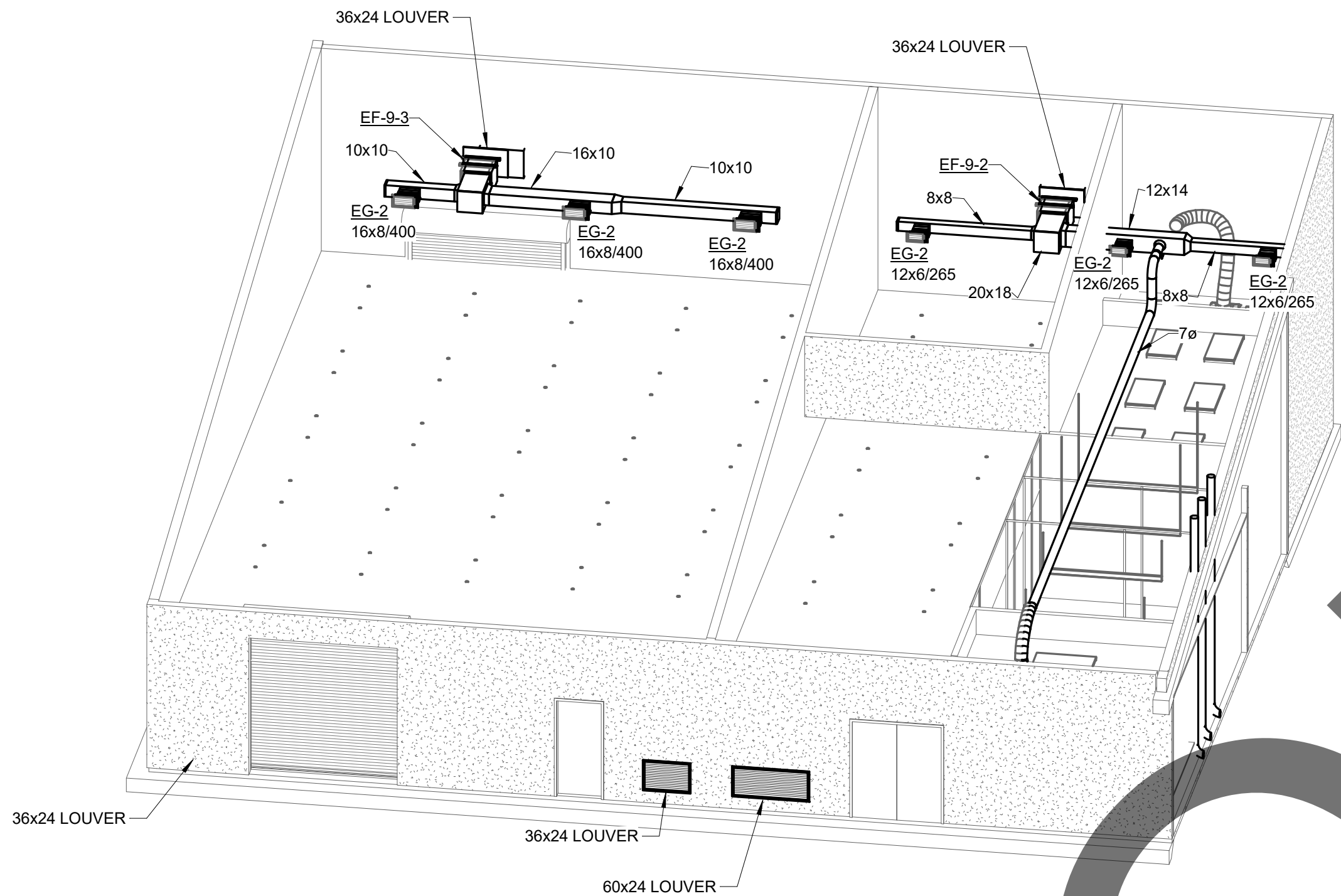
SUPPORT BUILDING
MECHANICAL FLOOR
PLAN

sheet number

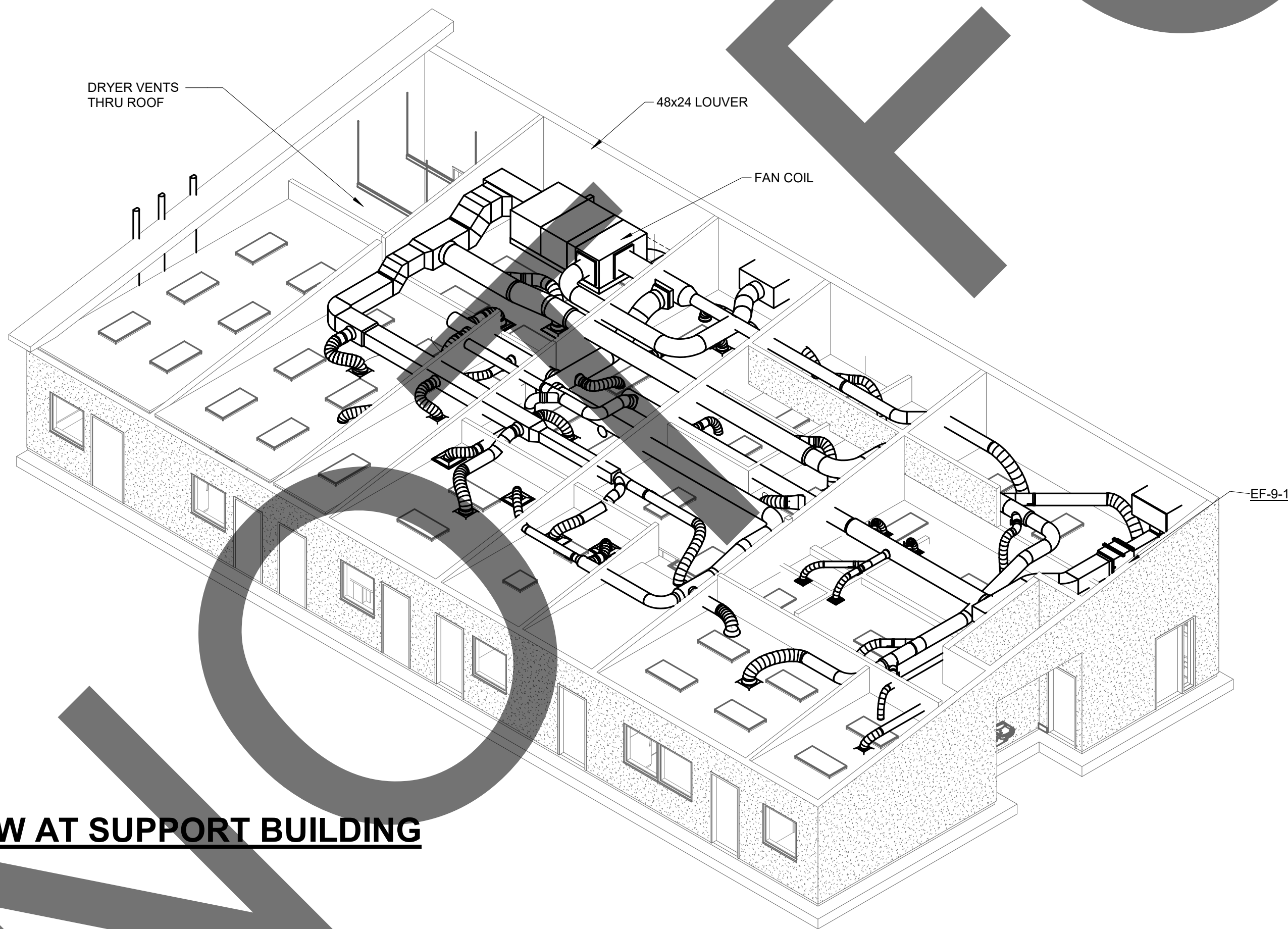
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1 **ISOMETRIC VIEW AT STORAGE BUILDING**
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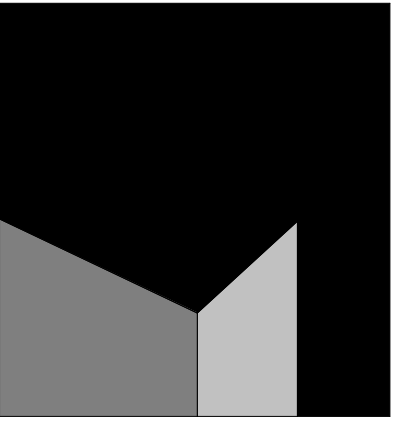


2 **ISOMETRIC VIEW AT SUPPORT BUILDING**
NO SCALE

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sheet name

SUPPORT BUILDING
ISOMETRIC VIEWS

sheet number

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