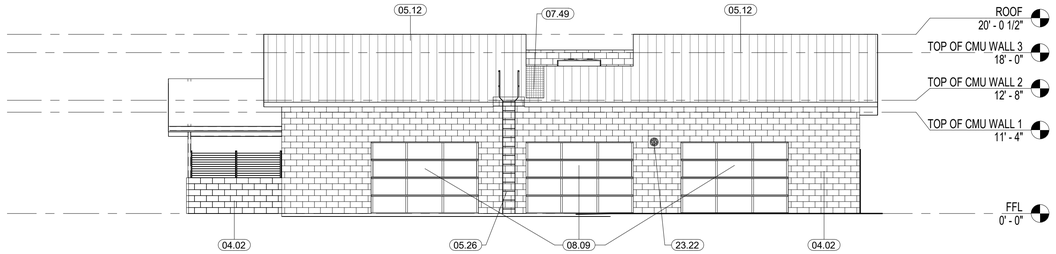
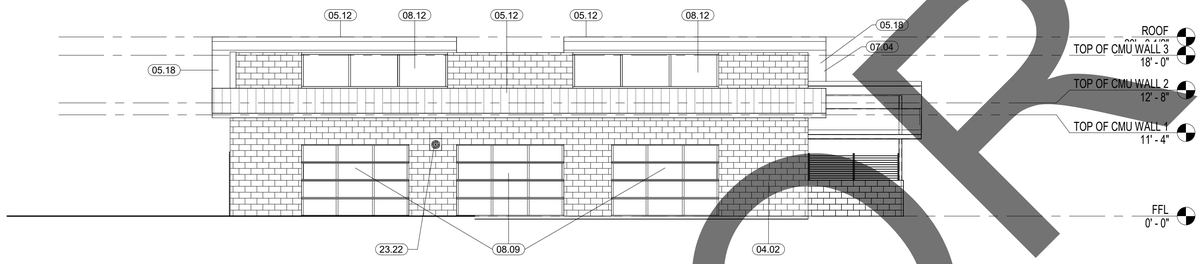
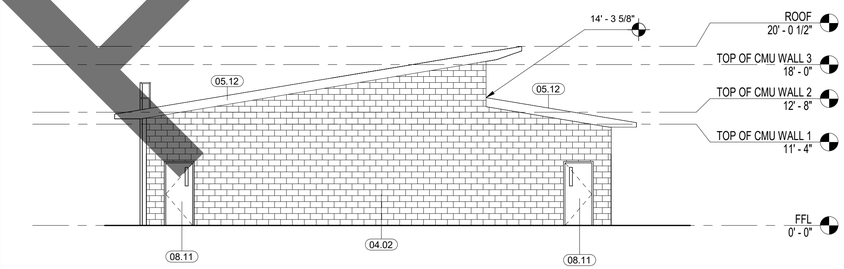


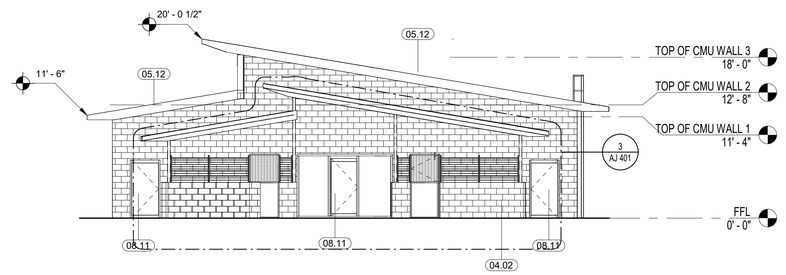
SOUTH ELEVATION — SCALE 1/8" = 1'-0" — 4



NORTH ELEVATION — SCALE 1/8" = 1'-0" — 3



EAST ELEVATION — SCALE 1/8" = 1'-0" — 2



WEST ELEVATION — SCALE 1/8" = 1'-0" — 1

KEYNOTE LEGEND

CSI #	KEYNOTE TEXT
04.02	CMU Wall
05.12	Standing Seam Metal Roof
05.18	6" V-Groove Aluminum Plank 'Longboard'
05.26	Steel Roof Ladder
07.04	'Trespa' 'Meteon' Wall Planks
07.49	Roof Walkway System
08.09	Overhead Door with Rail Support per Schedule
08.11	Door
08.12	Window
23.22	Mechanical Fan per Mechanical Drawings

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ANIMAL CARE CENTER

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PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	2/29/24

SHEET NAME

ADOPTION DOG BUILDING ELEVATIONS

SHEET NUMBER

AJ 201

Sheet Of Sheets

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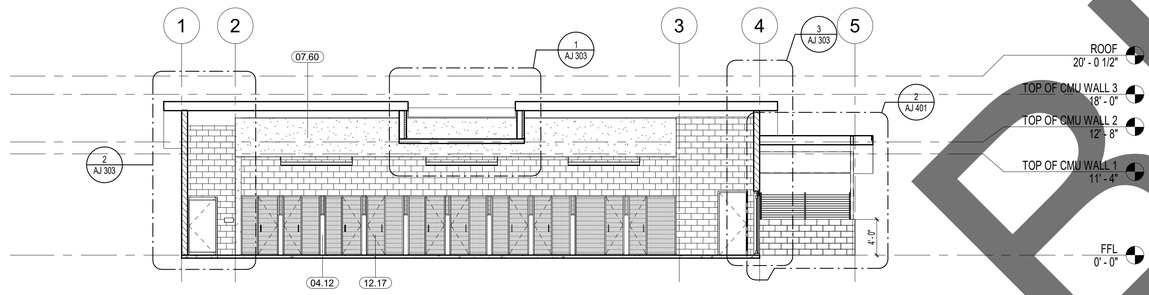
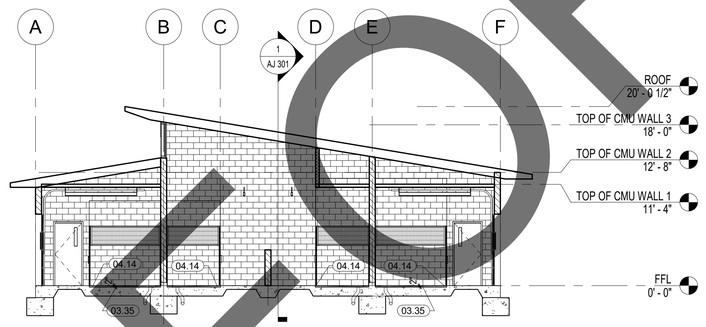


SECTION 1

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



SECTION 2

SCALE	
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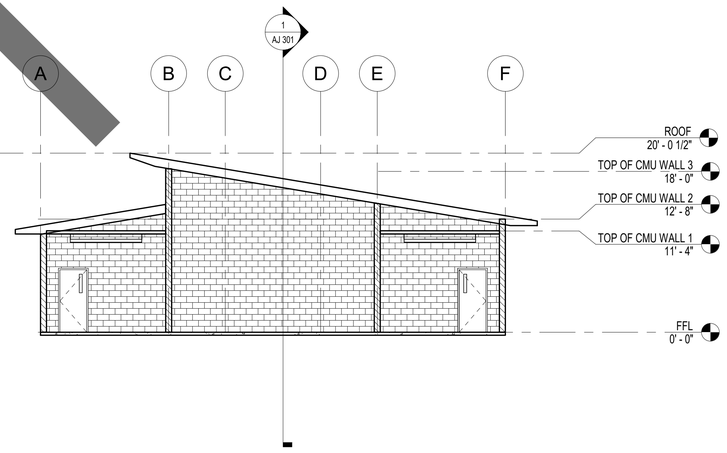

SECTION 3

SCALE	
1/8" = 1'-0"	3

KEYNOTE LEGEND

CSI #	KEYNOTE TEXT
03.35	Depress slab per layout drawing
04.12	Epoxy Coated CMU Block
04.14	Provide topping sloping mortar to create finish slopes
07.60	Smooth Cementitious Fiber Soffit Panel
12.17	Dog Kenneling - See Animal Equipment Drawings

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SHEET NAME

ADOPTION DOG BUILDINGS SECTIONS

SHEET NUMBER

AJ 301

Sheet Of Sheets

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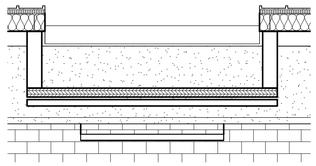
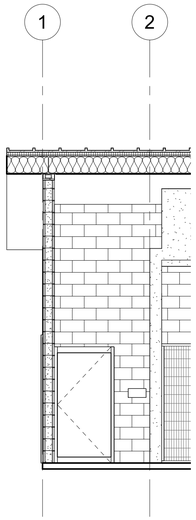


N/ S WALL SECTION 1 | SCALE 1/4" = 1'-0" | 1



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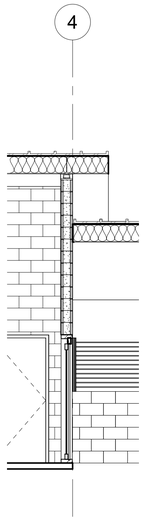

N/ S WALL SECTION 3 | SCALE 1/4" = 1'-0" | 3

E/W WALL SECTION 4 | SCALE 1/4" = 1'-0" | 4

E/W WALL SECTION 5 | SCALE 1/4" = 1'-0" | 5

E/W WALL SECTION 6 | SCALE 1/4" = 1'-0" | 6

E/W WALL SECTION 7 | SCALE 1/4" = 1'-0" | 7

E/W WALL SECTION 8 | SCALE 1/4" = 1'-0" | 8

E/W WALL SECTION 9 | SCALE 1/4" = 1'-0" | 9

E/W WALL SECTION 10 | SCALE 1/4" = 1'-0" | 10

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SHEET NAME

ADOPTION DOG BUILDINGS WALL SEC.

SHEET NUMBER

AJ 303

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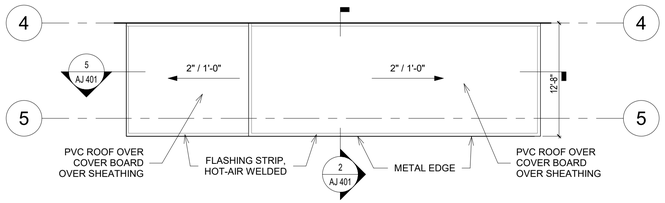
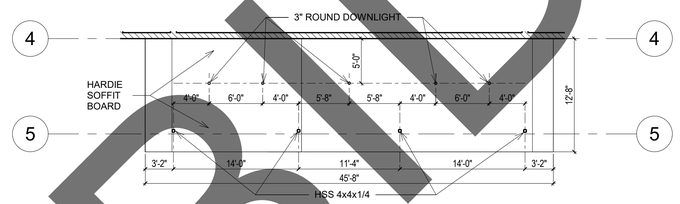
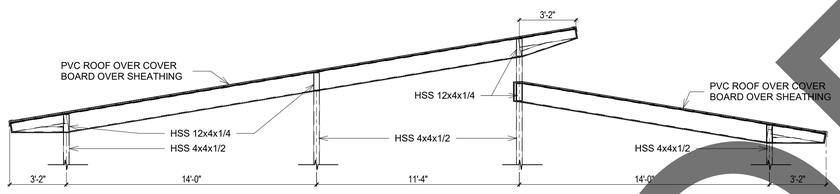


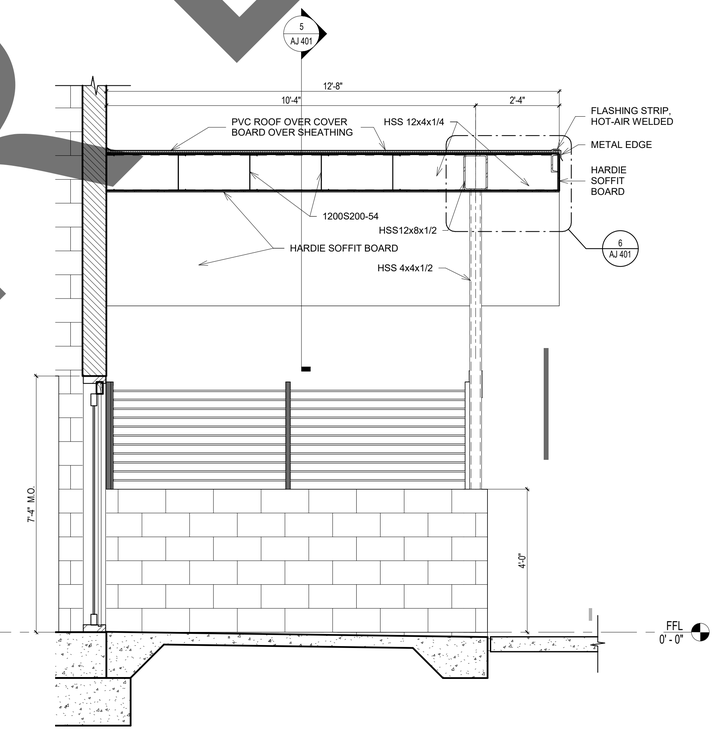
CANOPY ROOF | SCALE 1/8" = 1'-0" | 4



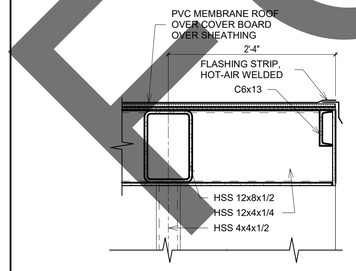
CANOPY RCP | SCALE 1/8" = 1'-0" | 1



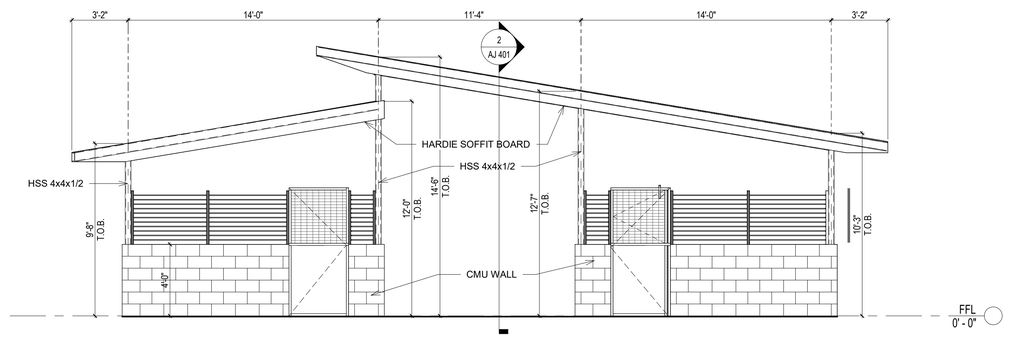
CANOPY SECTION 2 | SCALE 1/4" = 1'-0" | 5



CANOPY SECTION | SCALE 1/2" = 1'-0" | 2



CANOPY DETAIL | SCALE 1" = 1'-0" | 6



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

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SHEET NAME

CANOPY DETAILS

SHEET NUMBER

AJ 401

Sheet Of Sheets

FINISH SCHEDULE

NUMBER	ROOM NAME	FLOOR	BASE	WALL FINISH A	WALL FINISH B	WALL FINISH C	WALL FINISH D	WAINSCOT FINISH A	WAINSCOT FINISH B	WAINSCOT FINISH C	WAINSCOT FINISH D	CEILING MATERIAL	CEILING HEIGHT	REMARKS
1	OUTDOOR RUN 1	F5	B4	W4	W4	W4	W4					C4	11' - 0"	
2	INDOOR RUN 1	F5	B4	W4	W4	W4	W4					C4	11' - 0"	
3	INDOOR RUN 2	F5	B4	W4	W4	W4	W4					C4	11' - 0"	
4	OUTDOOR RUN 2	F5	B4	W4	W4	W4	W4					C4	11' - 0"	
5	CLEANING EQUIP.	F4	B1	W4	W4	W4	W4					C1	9' - 0"	
6	IDF	F3	B1	W4	W4	W4	W4					C1	9' - 0"	
7	ELECTRICAL	F4	B1	W4	W4	W4	W4					C1	9' - 0"	
8	GET ACQUAINTED YARD 1	F5	B4	W4	W4	W4	W4					C4	11' - 0"	
9	GET ACQUAINTED YARD 2	F5	B4	W4	W4	W4	W4					C4	11' - 0"	

FLOOR MATERIAL:

F1	CARPET
F2	CERAMIC TILE
F3	VINYL TILE
F4	SEALED CONCRETE
F5	EPOXY

BASE MATERIAL:

B1	RUBBER COVE BASE
B2	CARPET
B3	CERAMIC TILE
B4	EPOXY RESIN COVED 4"
B5	PORCELAIN TILE

WALL MATERIAL:

W1	GYPSUM BOARD - TEXTURED AND PAINTED
W2	CERAMIC TILE
W3	EXPOSED FRAMING
W4	2 LAYERS BLOCK FILLER AND EPOXY PAINT

CEILING:

C1	SUSPENDED ACCOUSTICAL CEILING
C2	GYPSUM BOARD - TEXTURED AND PAINTED
C3	EXPOSED FRAMING
C4	CERAMIC GUARD ACOUSTICAL CEILING

REMARKS:

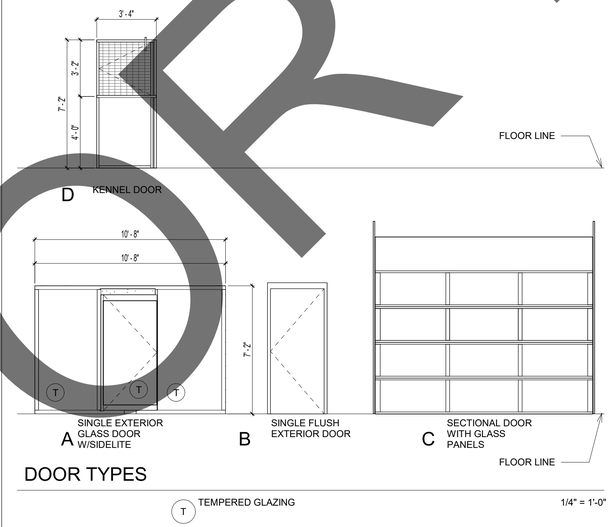
R1	X
R2	X
R3	X
R4	X
R5	X
R6	X

GENERAL NOTES:

1. INTERIOR FINISH MATERIALS SHALL COMPLY WITH 2022 CBC CHAPTER 12.
2. WATER RESISTANT GYPSUM BOARD COMPLYING WITH 2022 CBC SECTION 2509 TO BE USED IN TOILET ROOMS.
3. GYPSUM BOARD TO BE 5/8" TYPE "X" UNLESS NOTED OTHERWISE.

DOOR SCHEDULE

DOOR NUMBER	TYPE	PAIR OR SINGLE	SIZE WIDTH	SIZE HEIGHT	DOOR FINISH	DOOR MATERIAL	FRAME FINISH	FRAME MATERIAL	DETAIL HEAD	DETAIL JAMB 1	DETAIL JAMB 2	DETAIL SILL	HW GROUP	REMARKS
1	A	S	3' - 0"	6' - 6"	F	AL/GL	F	AL	5/A-502	11/A-502		4/A-501		
2	B	S	3' - 0"	7' - 0"	F	F	F	F	14/A-501	15/A-501				
3	B	S	3' - 0"	7' - 0"	F	F	F	F	14/A-501	15/A-501				
4	B	S	3' - 0"	7' - 0"	F	F	F	F	14/A-501	15/A-501				
5	B	S	3' - 0"	6' - 6"	F	AL/GL	F	AL	5/A-502	4/A-502		4/A-501		
6	C	S	12' - 0"	8' - 0"	F	AL/GL	F	AL	18/A-502	19/A-502		20/A-502		
7	C	S	12' - 0"	8' - 0"	F	AL/GL	F	AL	18/A-502	19/A-502		20/A-502		
8	C	S	12' - 0"	8' - 0"	F	AL/GL	F	AL	18/A-502	19/A-502		20/A-502		
9	B	S	3' - 0"	7' - 0"	F	F	F	F	14/A-501	15/A-501				
10	B	S	3' - 0"	6' - 6"	F	AL/GL	F	AL	5/A-502	4/A-502				
11	B	S	3' - 0"	6' - 6"	F	AL/GL	F	AL	5/A-502	4/A-502				
12	B	S	3' - 0"	7' - 0"	F	F	F	F	14/A-501	15/A-501				
13	D	S	12' - 0"	8' - 0"	F	AL/GL	F	AL	18/A-502	19/A-502		20/A-502		
14	D	S	12' - 0"	8' - 0"	F	AL/GL	F	AL	18/A-502	19/A-502		20/A-502		
15	D	S	12' - 0"	8' - 0"	F	AL/GL	F	AL	18/A-502	19/A-502		20/A-502		
16	B	S	3' - 0"	6' - 6"	F	AL/GL	F	AL	5/A-502	4/A-502		4/A-501		



DOOR TYPES

T TEMPERED GLAZING

1/4" = 1'-0"

DOOR GENERAL NOTES:

1. EXIT DOORS SHALL BE OPERABLE FROM THE INSIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2. GLASS AND GLAZING SHALL COMPLY WITH CBC CHAPTER 24.
3. MAXIMUM EFFORT TO OPERATE DOORS:
   EXTERIOR - 5.0 LBS
   INTERIOR - 5.0 LBS
4. VERIFY ALL DOOR FRAME THROAT SIZES WITH FINISHED WALL THICKNESS PRIOR TO ORDERING FRAMES.
5. ALL HAND ACTIVATED DOOR OPENING HARDWARE AT LATCHING OR LOCKING DOORS ON THE ACCESSIBLE PATH OF TRAVEL SHALL BE OPERABLE WITH SINGLE EFFORT LEVER TYPE HARDWARE, PANIC BARS, PUSH/PULL ACTIVATING BARS OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE HARDWARE.
6. MAIN ENTRY DOOR SHALL BE PROVIDED WITH AN INDICATING FLAG LOCK AND REQUIRED DECAL ON HEADER STATING, "THIS DOOR TO REMAIN UNLOCKED WHEN THIS SPACE IS OCCUPIED PER CBC 1010.1.9.3
7. FIRE DOORS SHALL BE LATCHED AN SELF OR AUTOMATIC-CLOSING IN ACCORDANCE WITH SECTION 716.2.6.1.
8. CHUTE INTAKE DOORS SHALL BE POSITIVE LATCHING, REMAINING LATCHED AND CLOSED IN THE EVENT OF LATCH SPRING FAILURE DURING A FIRE EMERGENCY.
9. ALL UNIT NUMBERS TO BE A MIN. OF 4" HIGH INSTALLED ON A CONTRASTING BACKGROUND.

DOOR SCHEDULE LEGEND:

DOOR:

MATERIAL

AL	ALUMINUM
WD	WOOD
M	METAL
G	GLASS
V	VINYL

FINISH

SCF	STAIN & CLEAR FINISH
P	PAINT
F	FACTORY APPLIED
T	TEMPERED GLASS
E	EXISTING FINISH

FRAME:

MATERIAL

AL	ALUMINUM
HM	HOLLOW METAL
M	METAL
E	EXISTING

FINISH

P	PAINT
F	FACTORY APPLIED
E	EXISTING FINISH

REMARKS:

R1	ACCESSIBILITY SIGN
R2	PANIC DEVICE
R3	CARD READER
R4	METAL KICK PLATES
R5	PANIC DEVICE
R6	SMOKE GASKET
R7	WEATHERSTRIP
R8	CLOSER

WINDOW SCHEDULE

MARK	WINDOW TYPE	SIZE WIDTH	SIZE HEIGHT	GLAZING	FRAME MATERIAL	FRAME FINISH	FIRE RATING	DETAILS HEAD	DETAILS JAMB 1	DETAILS JAMB 2	DETAILS SILL	REMARKS
J1	A	16' - 0"	4' - 0"	3	AL	F		9/A-502	10/A-502			

WINDOW

GLAZING:

1. TEMPERED GLASS
2. WIRE GLASS
3. DUAL GLAZING
4. SINGLE GLAZING
5. FIRE PROTECTION RATED GLAZING

FRAME

MATERIAL:

AL	ALUMINUM
HM	HOLLOW METAL
E	EXISTING
VL	VINYL FRAME MATERIAL

FINISH:

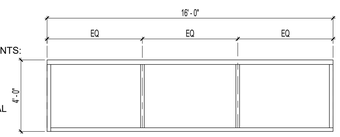
P	PAINTED
F	FACTORY APPLIED
E	EXISTING FINISH

GLAZING NOTES

1. ALL EXTERIOR GLAZING TO COMPLY WITH THE FOLLOWING TITLE 24 REQUIREMENTS:
   A. U-FACTOR: 0.00
   B. SHGC: 0.00
   C. VT: 0.00
2. ALL EXTERIOSOLARBAN 70XL SOLEXIA 1-INCH INSULATED LOW-E VITRO OR EQUAL

STOREFRONT NOTES:

- (T) DENOTES TEMPERED GLASS
- (10) CUSTOM WINDOW SEE WINDOW SCHEDULE
- [1] PRE-MANUFACTURED WINDOWS SEE WINDOW SCHEDULE



WINDOW TYPES

T TEMPERED GLAZING

1/4" = 1'-0"

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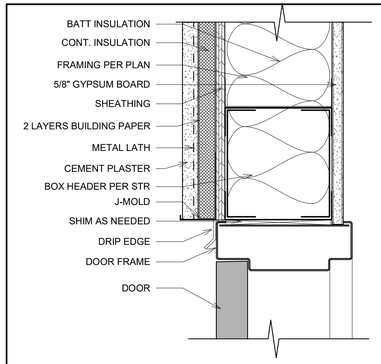
SHEET NAME

SCHEDULES

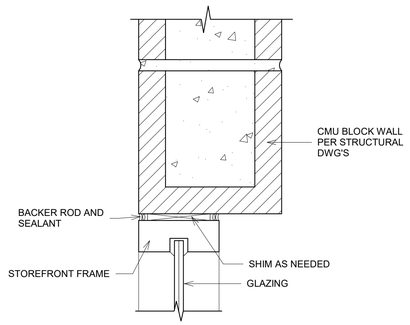
SHEET NUMBER

AJ 601

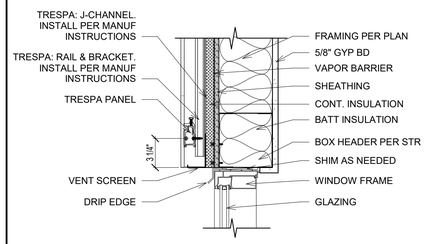
Sheet Of Sheets



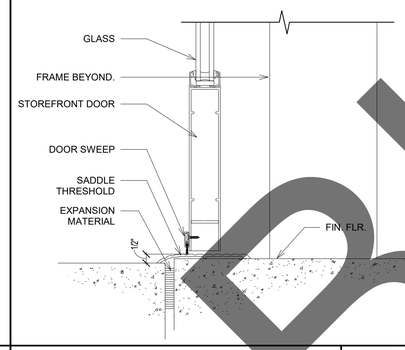
DOOR HEAD - EXTERIOR | SCALE 3" = 1'-0" | 17



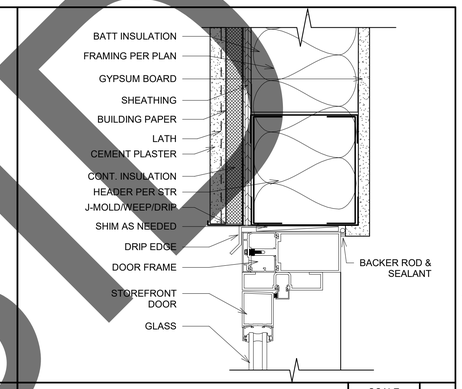
CMU STOREFRONT HEAD | SCALE 3" = 1'-0" | 13



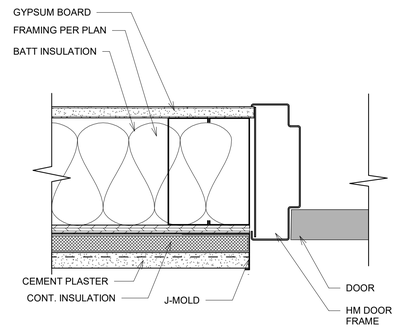
WINDOW HEAD - TRESPA | SCALE 1 1/2" = 1'-0" | 9



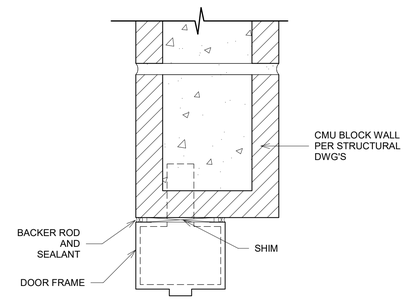
STOREFRONT DOOR THRESHOLD - EXTERIOR | SCALE 3" = 1'-0" | 4



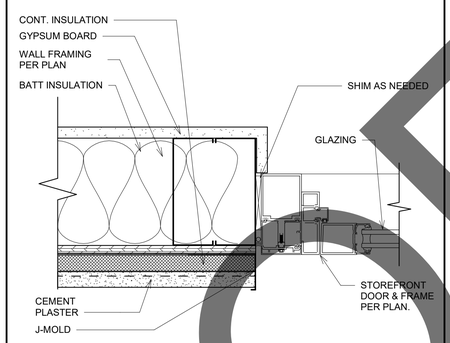
STOREFRONT DOOR HEAD - CEMENT PLASTER | SCALE 3" = 1'-0" | 1



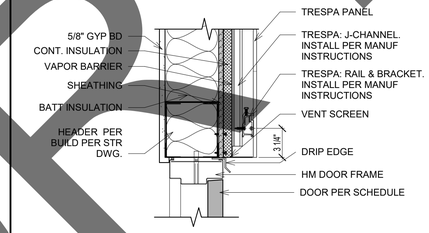
DOOR JAMB - EXTERIOR | SCALE 3" = 1'-0" | 18



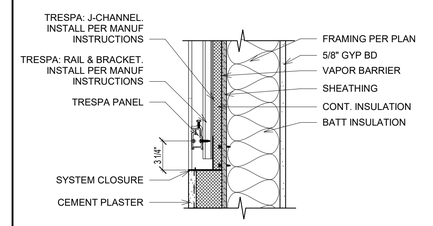
CMU DOOR HEAD | SCALE 3" = 1'-0" | 14



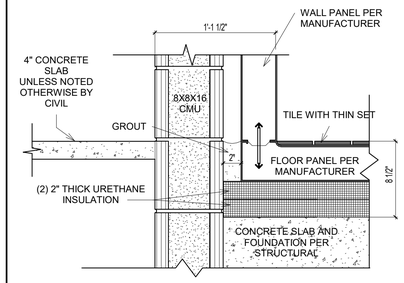
STOREFRONT DOOR JAMB - CEMENT PLASTER | SCALE 3" = 1'-0" | 10



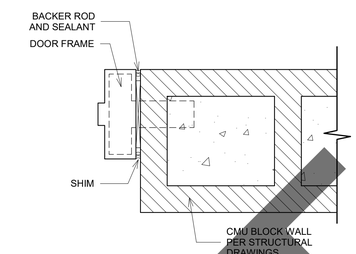
DOOR HEAD - TRESPA | SCALE 1 1/2" = 1'-0" | 5



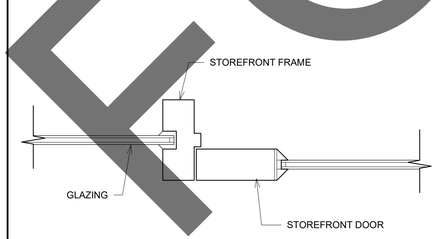
EXTERIOR TRESPA TRANSITION | SCALE 1 1/2" = 1'-0" | 2



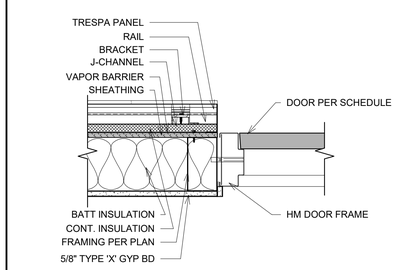
FREEZER WALL TO FLOOR CONNECTION | SCALE 1 1/2" = 1'-0" | 19



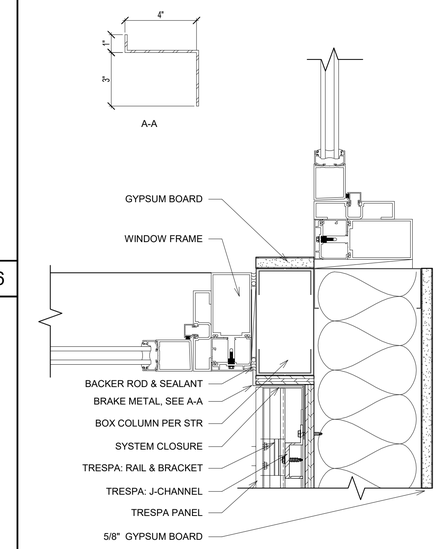
CMU DOOR JAMB | SCALE 3" = 1'-0" | 15



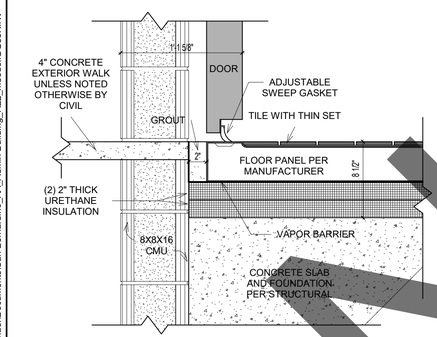
STOREFRONT DOOR JAMB - EXTERIOR | SCALE 3" = 1'-0" | 11



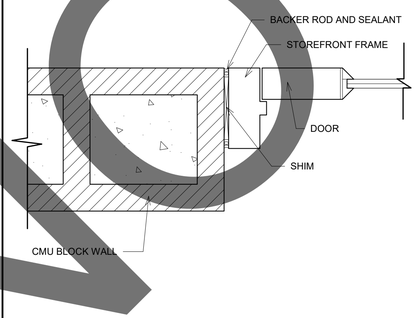
DOOR JAMB - TRESPA | SCALE 1 1/2" = 1'-0" | 6



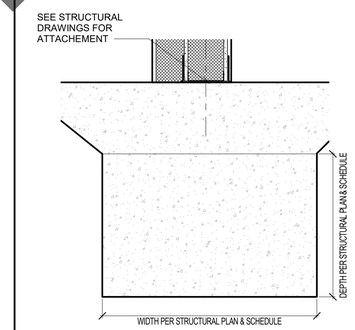
STOREFRONT DOOR JAMB CORNER - TRESPA | SCALE 3" = 1'-0" | 3



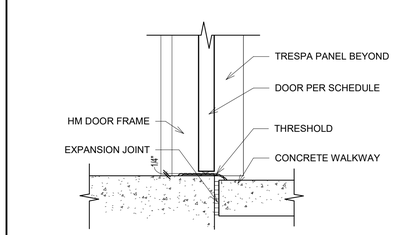
FREEZER THRESHOLD | SCALE 1 1/2" = 1'-0" | 20



CMU STOREFRONT DOOR JAMB | SCALE 3" = 1'-0" | 16



INTERMEDIATE FOOTING | SCALE 1" = 1'-0" | 12



DOOR SILL - TRESPA | SCALE 1 1/2" = 1'-0" | 7

STOREFRONT DOOR JAMB CORNER - TRESPA | SCALE 3" = 1'-0" | 3

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STATE OF CALIFORNIA

"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment

ANIMAL CARE CENTER
18313 VALLEY BLVD.
BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
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PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	2/29/24

SHEET NAME

DETAILS

SHEET NUMBER

A-501

Sheet Of Sheets

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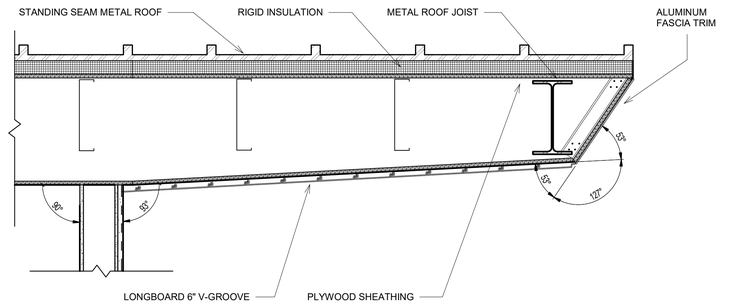
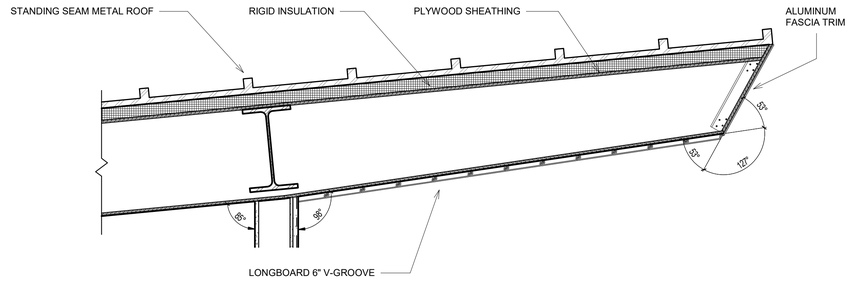
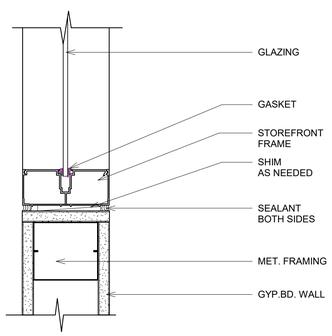


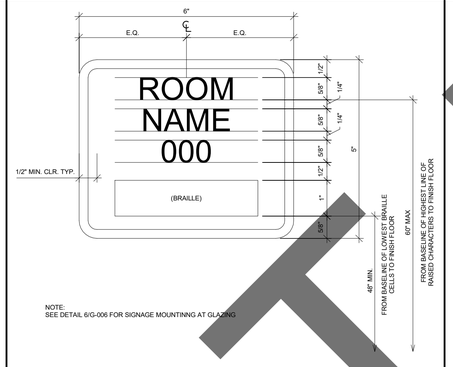
FASCIA 1 — SCALE 1" = 1'-0" — 13



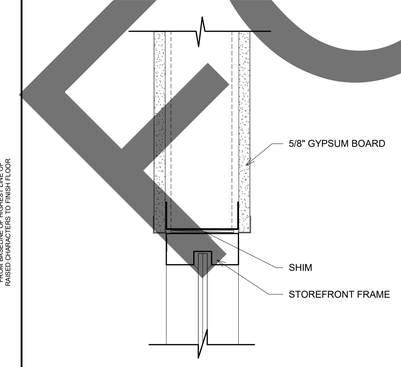
FASCIA 2 — SCALE 1" = 1'-0" — 14



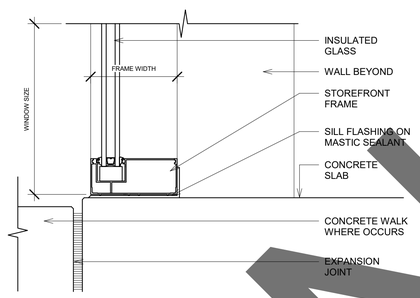
STOREFRONT INTERIOR WINDOW - SILL — SCALE 3" = 1'-0" — 17



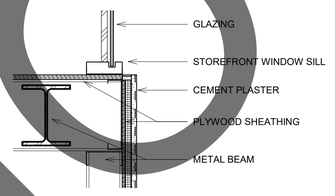
TACTILE SIGNAGE - ROOM NAME — SCALE 6" = 1'-0" — 12



STOREFRONT DOOR HEAD - INTERIOR — SCALE 3" = 1'-0" — 9

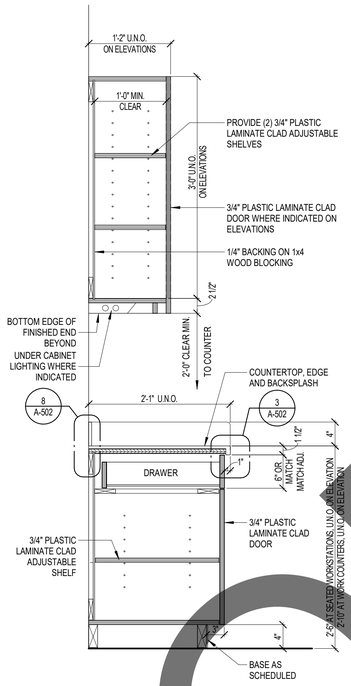


STOREFRONT WINDOW SILL - EXTERIOR — SCALE 3" = 1'-0" — 18

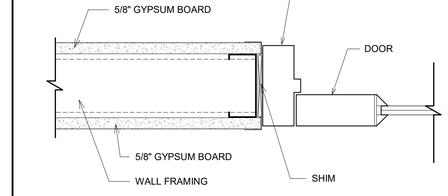


WINDOW SILL AT 2ND FLOOR — SCALE 1" = 1'-0" — 15

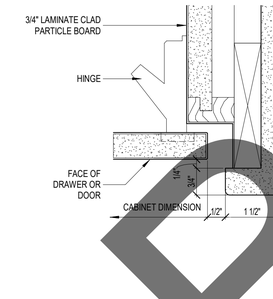
NOTE:
REFER TO STRUCTURAL DRAWINGS FOR CABINET BACKING AND ANCHORAGE



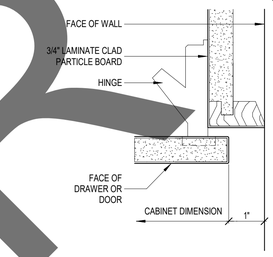
BASE AND WALL CABINET — SCALE 1" = 1'-0" — 11



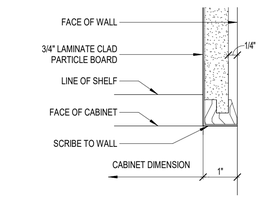
STOREFRONT DOOR STUD JAMB - INTERIOR — SCALE 3" = 1'-0" — 10



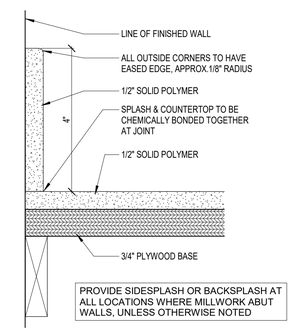
HINGE DETAIL 2 - TYP — SCALE 6" = 1'-0" — 5



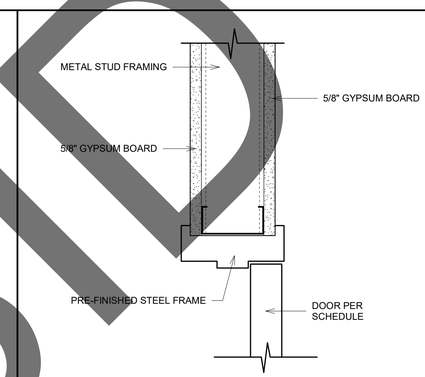
CABINET TO WALL DETAIL - TYP. — SCALE 6" = 1'-0" — 6



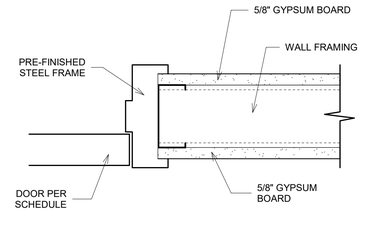
SHELF CABINET AT WALL - TYP. — SCALE 6" = 1'-0" — 7



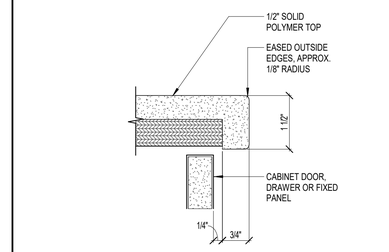
SOLID POLYMER BACKSPLASH - TYP. — SCALE 6" = 1'-0" — 8



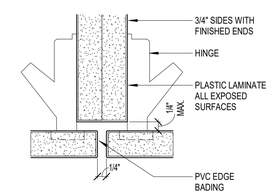
DOOR HEAD - INTERIOR — SCALE 3" = 1'-0" — 1



DOOR JAMB - INTERIOR — SCALE 3" = 1'-0" — 2



SOLID POLYMER NOSING - TYP. — SCALE 6" = 1'-0" — 3



HINGE DETAIL - TYP — SCALE 6" = 1'-0" — 4

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REVISIONS/ADDENDA

#	Date	Comment

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

PROJECT INFORMATION

Project Number:	2200065
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SHEET NAME

DETAILS

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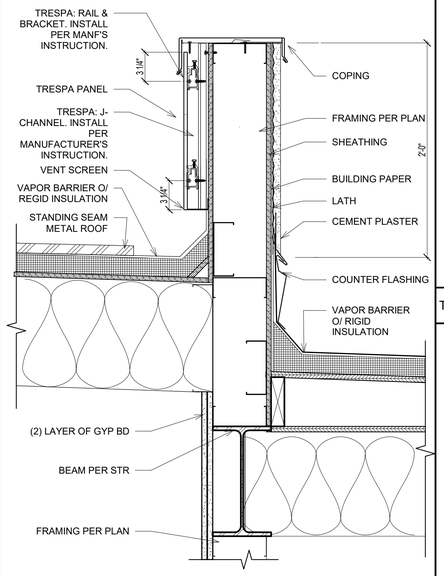
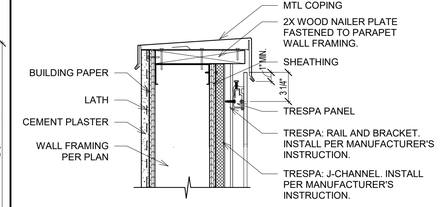
A-502

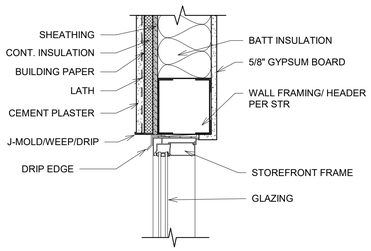
Sheet Of Sheets



TRESPA - CEMENT PLASTER PARAPET | SCALE 1 1/2" = 1'-0" | 18

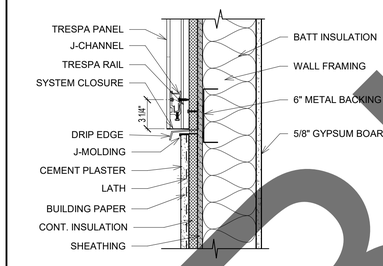


TRESPA - CEMENT PLASTER COPING | SCALE 1 1/2" = 1'-0" | 13

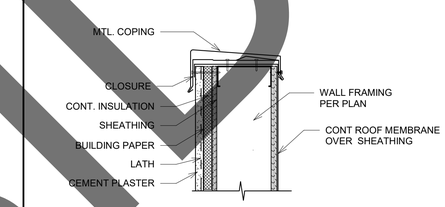


NOTE: ALIGN FACE OF WINDOW FRAME WITH FACE OF SHEATHING, TYPICAL

WINDOW HEAD - CEMENT PLASTER | SCALE 1 1/2" = 1'-0" | 9

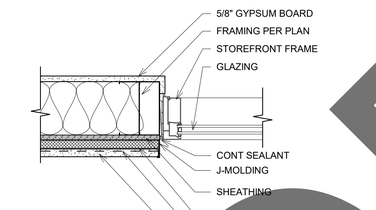


CEMENT PLASTER/TRESPA TRANSITION WALL | SCALE 1 1/2" = 1'-0" | 5

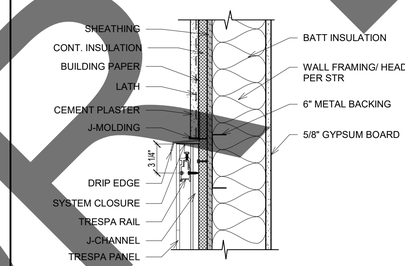


CEMENT PLASTER - PARAPET COPING | SCALE 1 1/2" = 1'-0" | 1

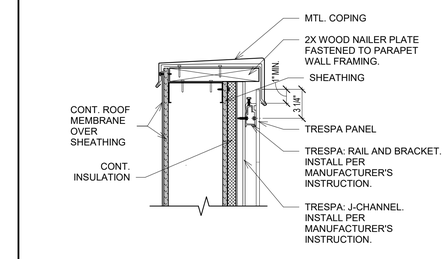
TRESPA - ROOF PARAPET | SCALE 1 1/2" = 1'-0" | 14



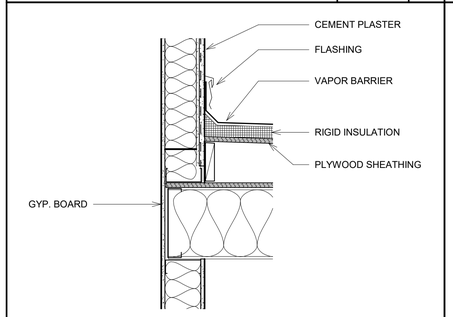
WINDOW JAMB - CEMENT PLASTER | SCALE 1 1/2" = 1'-0" | 10



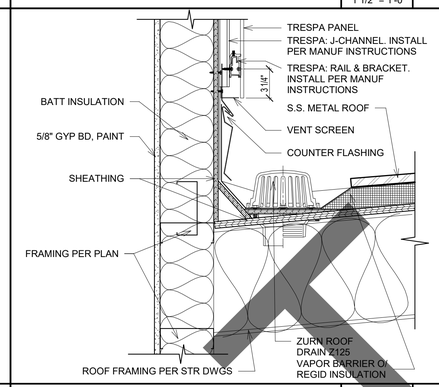
CEMENT PLASTER AND TRESPA TRANSITION WALL | SCALE 1 1/2" = 1'-0" | 6



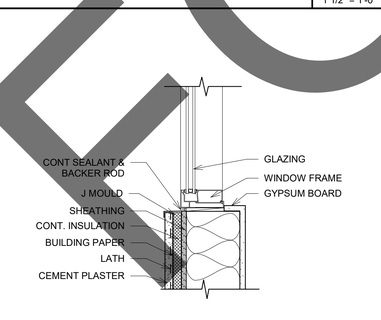
TRESPA - PARAPET COPING | SCALE 1 1/2" = 1'-0" | 2



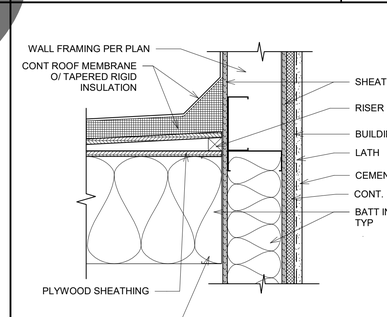
ROOF TO WALL CONNECTION | SCALE 1" = 1'-0" | 17



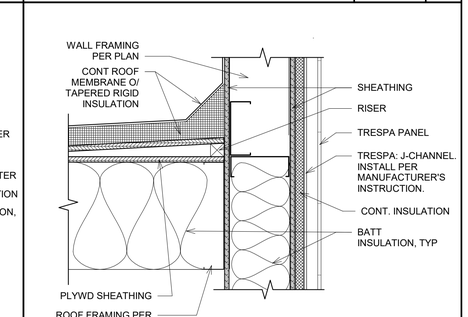
TRESPA - ROOF WALL CONNECTION | SCALE 1 1/2" = 1'-0" | 15



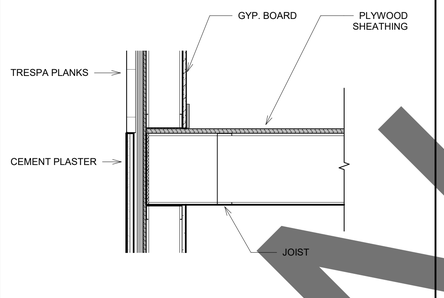
WINDOW SILL ABOVE GROUND - CEMENT PLASTER | SCALE 1 1/2" = 1'-0" | 11



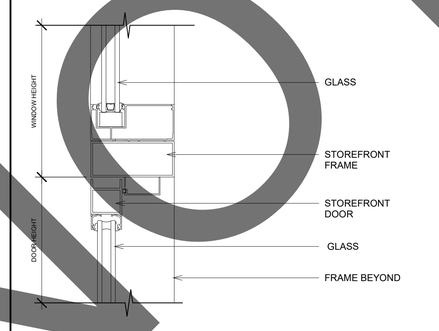
CEMENT PLASTER - PARAPET WALL CONNECTION | SCALE 1 1/2" = 1'-0" | 7



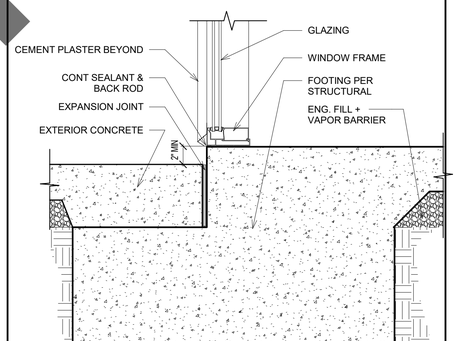
TRESPA - PARAPET WALL CONNECTION | SCALE 1 1/2" = 1'-0" | 3



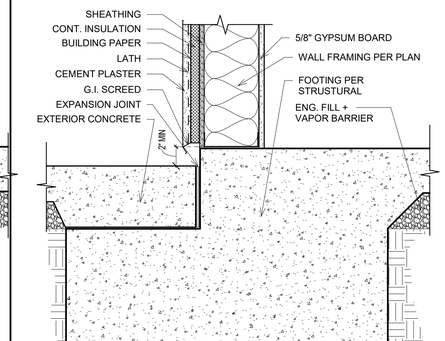
FLOOR TO WALL CONNECTION | SCALE 1" = 1'-0" | 19



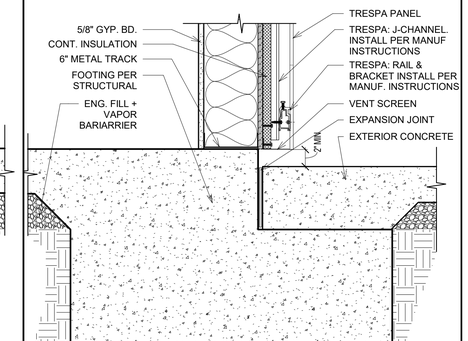
STOREFRONT HORIZONTAL MULLION | SCALE 3" = 1'-0" | 16



WINDOW SILL AT GROUND LEVEL | SCALE 1 1/2" = 1'-0" | 12



CEMENT PLASTER - BUILDING SILL | SCALE 1 1/2" = 1'-0" | 8



TRESPA - BUILDING SILL | SCALE 1 1/2" = 1'-0" | 4

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initials	date	phase

REVISIONS/ADDENDA

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ANIMAL CARE CENTER
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PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	2/29/24

SHEET NAME

DETAILS

SHEET NUMBER

A-503

Sheet Of Sheets

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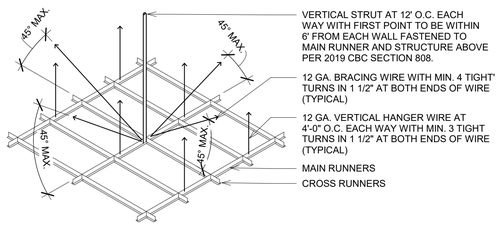
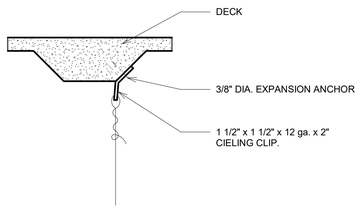
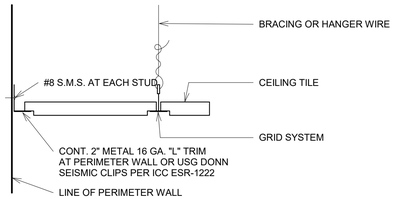
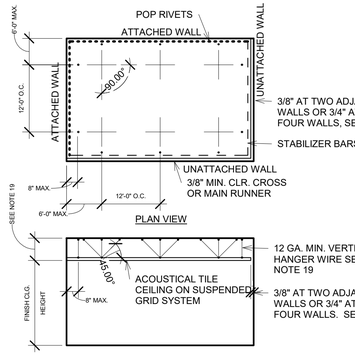


ISOMETRIC VIEW

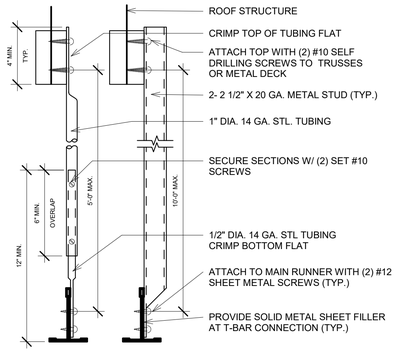


ATTACHMENT TO STRUCTURE



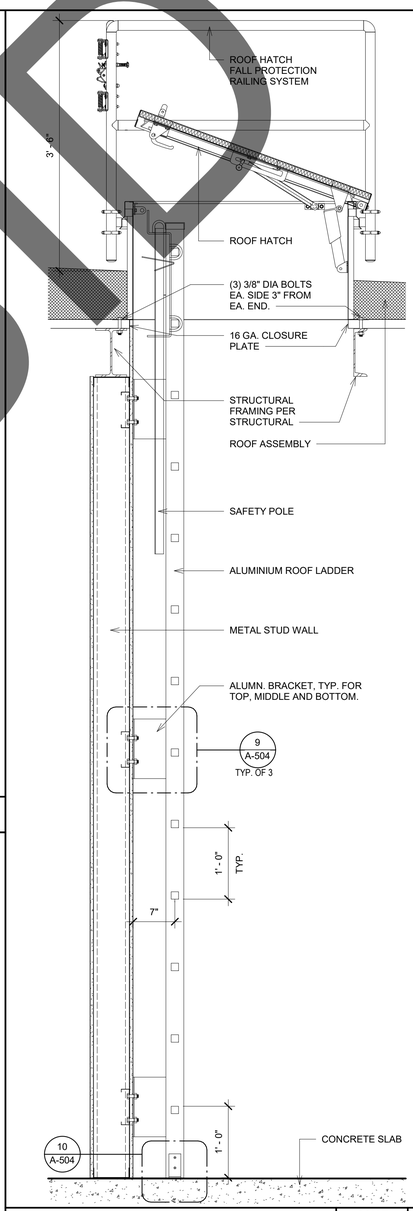


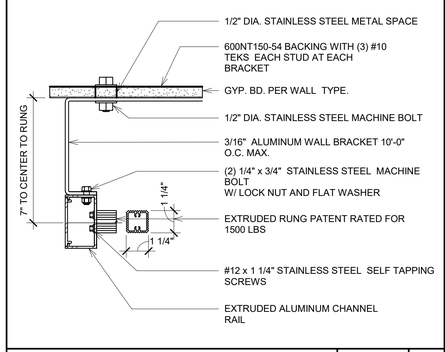
SECTION VIEW



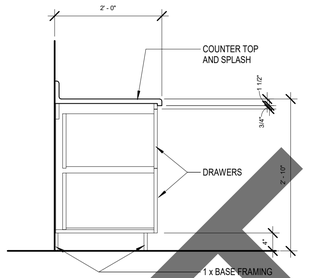
SUSPENDED CEILING NOTES:

1. INSTALL SYSTEM IN ACCORDANCE WITH ASTM C635, C636 AND CBC SECTION 1613.1 AND ASCE 7-16.
2. CEILINGS SHALL NOT SUPPORT MATERIAL OR BUILDING COMPONENTS OTHER THAN GRILLES OR LIGHT FIXTURES. DUCTWORK, PLUMBING AND LIKE WORK SHALL HAVE IT'S OWN SUPPORT SYSTEM AND SHALL NOT UTILIZE THE CEILING SYSTEM OR SUSPENSION WIRES.
3. PROVIDE TRAPEZE OR OTHER SUPPLEMENTARY SUPPORT MEMBERS AT STRUTS OR BRACES AS REQUIRED AT CEILING BREAKS, SOFFITS OR DISCONTINUOUS AREAS. HANGAR WIRES THAT ARE MORE THAN 1 AND 6 OUT OF PLUMB SHALL HAVE COUNTER SLOPING WIRES.
4. PROVIDE 12 GAGE HANGER WIRES AT THE END OF MAIN AND CROSS RUNNERS WITHIN 8 INCHES FROM THE SUPPORT OR WITHIN 1/4 OF THE LENGTH OF THE END TEE, WHICHEVER IS LEAST, FOR THE PERIMETER OF THE CEILING AREA.
5. CEILING GRID MEMBERS SHALL BE ATTACHED TO NOT MORE THAN 2 ADJACENT WALLS. CEILING GRID MEMBERS SHALL BE AT LEAST 1/2 INCH FREE OF OTHER WALLS.
6. AT THE PERIMETER OF THE CEILING AREA WHERE MAIN OR CROSS RUNNERS ARE NOT CONNECTED TO THE ADJACENT WALL, PROVIDE INTERCONNECTION BETWEEN THE RUNNERS AT THE FREE END TO PREVENT LATERAL SPREADING. A METAL STRUT OR A 16-GAGE WIRE WITH A POSITIVE MECHANICAL CONNECTION TO THE RUNNER MAY BE USED. WHERE THE PERPENDICULAR DISTANCE FROM THE WALL TO THE FIRST PARALLEL RUNNER IS 12 INCHES OR LESS, THE INTERLOCK IS NOT REQUIRED.
7. SEPARATE ALL CEILING HANGING AND BRACING WIRES AT LEAST 8 INCHES FROM UNBRACED DUCTS, PIPES OR CONDUIT. ATTACH LIGHTWEIGHT ITEMS, SUCH AS SINGLE ELECTRICAL CONDUIT NOT EXCEEDING 3/4 INCHES NOMINAL DIAMETER, TO HANGER WIRES USING APPROVED CONNECTORS.
8. ATTACH LIGHT FIXTURES TO THE CEILING GRID RUNNERS TO RESIST A HORIZONTAL FORCE EQUAL TO THE WEIGHT OF THE FIXTURE.
9. FLUSH OR RECESSED LIGHT FIXTURES AND AIR TERMINALS OR SERVICES SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT 12-GAGE WIRES EACH ATTACHED TO THE FIXTURE AND TO THE STRUCTURE ABOVE.
9.1. THE 4 TAUT 12 GAGE WIRES INCLUDING THEIR ATTACHMENT TO THE STRUCTURE ABOVE SHALL BE CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE UNIT.
9.2. ALL FIXTURES AND AIR TERMINALS OR SERVICES SUPPORTED ON INTERMEDIATE DUTY GRID SYSTEMS SHALL BE INDEPENDENTLY SUPPORTED BY NOT LESS THAN 4 TAUT 12 GAGE WIRES EACH ATTACHED TO THE FIXTURE OR TERMINAL AND TO THE STRUCTURE ABOVE.
10. SUPPORT SURFACE MOUNTED LIGHT FIXTURES BY AT LEAST TWO POSITIVE DEVICES WHICH SURROUND THE CEILING RUNNER AND WHICH ARE EACH SUPPORTED FROM THE STRUCTURE ABOVE BY A 12 GAGE WIRE. SPRING CLIPS OR CLAMPS THAT CONNECT ONLY TO THE RUNNER ARE NOT ACCEPTABLE.
10.1. PROVIDE ADDITIONAL SUPPORTS WHEN LIGHT FIXTURES ARE 8 FEET OR LONGER.
11. SUPPORT PENDANT MOUNTED LIGHT FIXTURES DIRECTLY FROM THE STRUCTURE ABOVE WITH HANGER WIRES OR CABLES PASSING THROUGH EACH PENDANT HANGER AND CAPABLE OF SUPPORTING 4 TIMES THE WEIGHT OF THE FIXTURE.
12. DO NOT ECCENTRICALLY LOAD SYSTEM, OR PRODUCE ROTATION OF RUNNERS.
13. INSTALL EDGE ANGLE AT INTERSECTION OF CEILING AND VERTICAL SURFACES, USING LONGEST PRACTICAL LENGTHS. INSTALL IN A SINGLE ALIGNED PLAN WITH THE CEILING GRID. MITER CORNERS. PROVIDE EDGE ANGLES AT JUNCTIONS WITH OTHER INTERRUPTIONS. WHERE ROUND OBSTRUCTIONS OCCUR, PROVIDE PREFORMED CLOSERS TO MATCH EDGE MOLDING.
14. FIT ACOUSTIC UNITS IN PLACE, FREE FROM DAMAGED EDGES OR OTHER DEFECTS DETRIMENTAL TO APPEARANCE AND FUNCTION.
15. INSTALL ACOUSTIC UNITS LEVEL, IN UNIFORM PLANE, AND FREE FROM TWIST, WARP AND DENTS. REPLACE DAMAGED OR SOILED UNITS.
16. PROVIDE FOR COMPLETE ACCESSIBILITY FOR ALL UNITS.
17. BRACING WIRES SECURED TO MAIN RUNNERS WITHIN 2" OF THE CROSS RUNNER INTERSECTION AND SPLAYED 90° FROM EACH OTHER AT AN ANGLE NOT EXCEEDING 45° FROM THE PLANE OF THE CEILING.
18. FOR ROOMS WITH SPAN IN EITHER DIRECTION LESS THAN 25 FEET, MAIN RUNNERS AND CROSS RUNNERS MAY BE ATTACHED TO THE PERIMETER OF TWO ADJACENT WALLS WITH 3/4" CLEARANCE BETWEEN THE RUNNERS AND THE OTHER TWO WALLS. WHERE SPAN OF THE CEILING SYSTEM BETWEEN PERIMETER WALLS EXCEED 25 FEET IN BOTH DIRECTIONS, A MINIMUM WALL ANGLE SIZE OF AT LEAST 2" HORIZONTAL LEG SHALL BE USED AT PERIMETER WALLS AND INTERIOR FULL HEIGHT PARTITION. THE FIRST TILE SHALL BE 3/4" CLEAR FROM WALL SURFACE.
19. WHEN THE DISTANCE BETWEEN THE STRUCTURAL DECK AND THE CEILING EXCEEDS 4 FEET, THE SPACING OF THE VERTICAL HANGERS SHALL NOT EXCEED 2 FEET ON CENTER ALONG THE ENTIRE LENGTH OF THE MEANS OF EGRESS SERVICING AN OCCUPANT LOAD OF 30 OR MORE, AND AT LOBBIES ACCESSORY TO GROUP A OCCUPANCIES.
20. SPLICE RUNNERS PER MANUFACTURERS RECOMMENDATIONS.
21. CONSTRUCT SUSPENDED CEILING PER ICC REPORT ESR-1308.
22. SUSPENDED CEILING TO COMPLY WITH THE FOLLOWING CBC REQUIREMENTS IN CATEGORY D, E AND F INSTALLATIONS:
22.1. 2" MOLDING (GRID SYSTEMS WITH SPECIALTY OR PROPRIETARY ANGLES AND SUPPORT CLIPS MAY BE ACCEPTABLE AT THE DISCRETION OF THE BUILDING OFFICIAL).
22.2. ATTACHED GRID ON TWO ADJACENT WALLS WITH POP RIVETS, SCREWS OR OTHER MEANS.
22.3. 3/4" CLEARANCE AT PERIMETER ON UNATTACHED WALLS AND STABILIZER BARS TO PREVENT THE SPREAD OF MAINS AND BEAMS AND CROSS TEES.
22.4. HEAVY DUTY GRID
23. EXCEPT WHERE RIGID BRACES ARE USED TO LIMIT LATERAL DEFLECTION, SPRINKLER HEADS AND OTHER PENETRATIONS, PROVIDE A 2" OVERSIZE RING, SLEEVE, OR ADAPTER THROUGH THE CEILING TILE TO ALLOW FOR FREE MOVEMENT OF AT LEAST ONE INCH IN ALL HORIZONTAL DIRECTIONS. ALTERNATIVELY, A SWING JOINT THAT CAN ACCOMMODATE ONE INCH OF CEILING MOVEMENT IN ALL HORIZONTAL DIRECTIONS IS PERMITTED TO BE PROVIDED AT THE TOP OF THE SPRINKLER HEAD EXTENSION.
24. LATERAL FORCE BRACING MAY BE OMITTED FOR SUSPENDED ACOUSTICAL CEILING SYSTEMS WITH A CEILING AREA OF 144 SQUARE FEET OR LESS, WHEN PERIMETER SUPPORT, IN ACCORDANCE WITH ASTM E580 SECTIONS 5.2.2 AND 5.2.3, ARE PROVIDED AND PERIMETER WALLS ARE DESIGNED TO CARRY THE CEILING LATERAL FORCES.
25. SPECIAL INSPECTION IS REQUIRED FOR THE SUSPENDED CEILING, PER SECTION 4.9 OF THE ICC-ES REPORT.

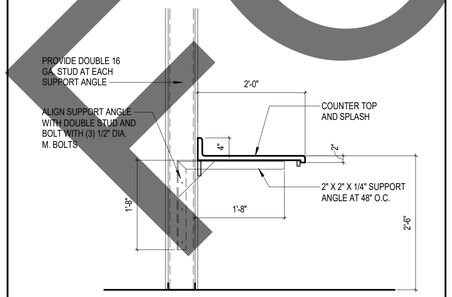




LADDER WALL SUPPORT — SCALE 3" = 1'-0" — 9

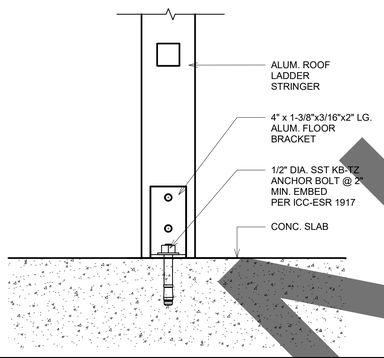


BASE CABINET1 — SCALE 3/4" = 1'-0" — 7

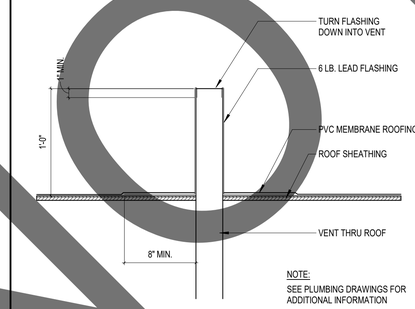


COUNTER TOP SUPPORT — SCALE 3/4" = 1'-0" — 5

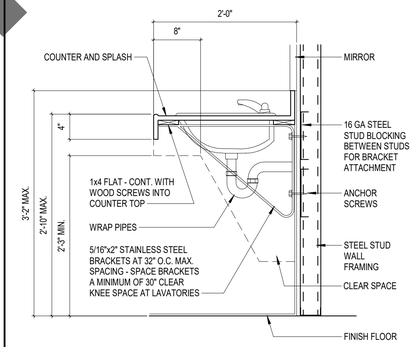
ROOF ACCESS LADDER/HATCH1 — SCALE 1" = 1'-0" — 1



LADDER BASE SUPPORT — SCALE 3" = 1'-0" — 10

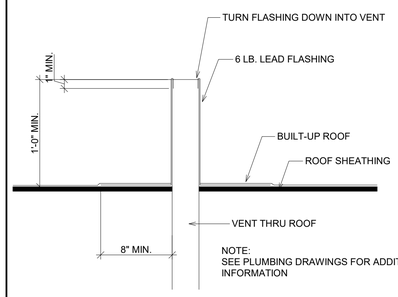


VENT THRU ROOF1 — SCALE 1 1/2" = 1'-0" — 8



VANITY COUNTER TOP — SCALE 1" = 1'-0" — 6

NOTE:
REFER TO STRUCTURAL DRAWINGS FOR CABINET BACKING AND ANCHORAGE



VENT THRU ROOF — SCALE 1 1/2" = 1'-0" — 2

SUSPENDED CEILING SYSTEM — SCALE 1/2" = 1'-0" — 3

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"Shelter Planners of America"

owner approval

initials	date	phase

REVISIONS/ADDENDA

#	Date	Comment

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PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	2/29/24

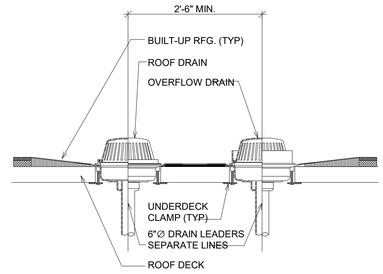
SHEET NAME

DETAILS

SHEET NUMBER

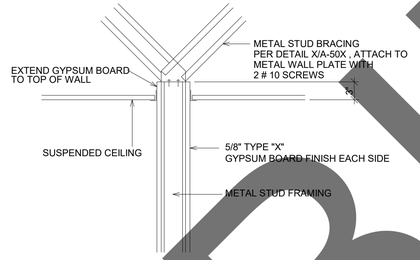
A-504

Sheet Of Sheets

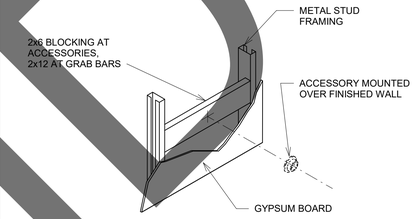


NOTE:
DO NOT APPLY COAL TAR OR DEAD LEVEL ASPHALT INTO DRAIN SUMP. INSTALL METAL GRAVEL STOPS.

ROOF DRAIN AND OVERFLOW — SCALE 3/4" = 1'-0" — 6

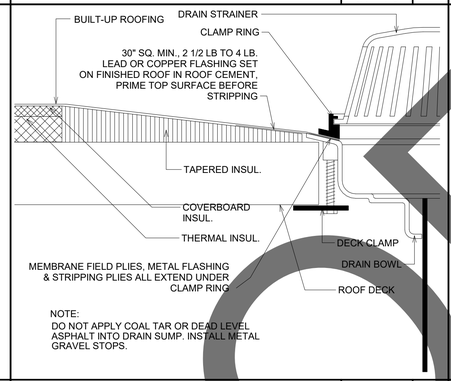


METAL STUD BRACING DETAIL — SCALE 1" = 1'-0" — 2



NOTE:
BLOCKING REQUIRED BEHIND WALL MOUNTED EQUIPMENT, CASEWORK AND ACCESSORIES.

ACCESSORY BACKING — SCALE 1/4" = 1'-0" — 8



NOTE:
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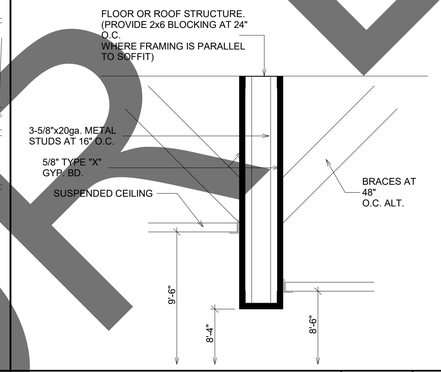
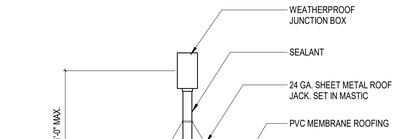
ROOF DRAIN — SCALE 3" = 1'-0" — 7



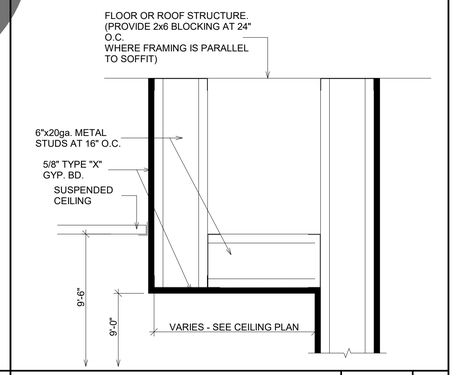
SOFFIT 1 — SCALE 1 1/2" = 1'-0" — 3



NOTE:
SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

CONDUIT THRU ROOF — SCALE 1 1/2" = 1'-0" — 13

FIRE EXTINGUISHER CABINET ELEV. — SCALE 1 1/2" = 1'-0" — 9



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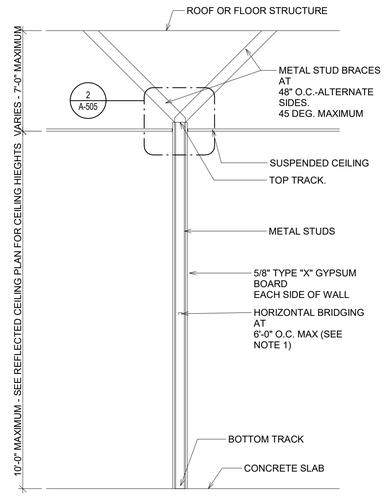
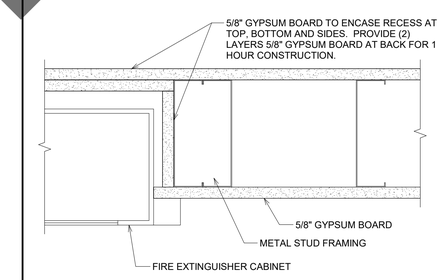
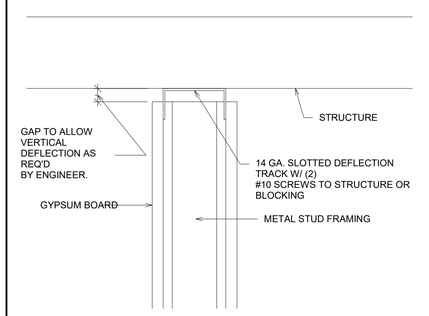


NOTES:
1. HORIZONTAL BRIDGING IS REQUIRED FOR NON-COMPOSITE NON-BEARING PARTITIONS. COMPOSITE NON-BEARING PARTITIONS WITH GYPSUM BOARD FULL HEIGHT OF PARTITION ON BOTH SIDES, ATTACHED PER ASTM C 1280 DO NOT REQUIRE BRIDGING CHANNEL.

METAL STUD PARTITION BRACING — SCALE 1/2" = 1'-0" — 1



FIRE EXTINGUISHER CABINET SECTION — SCALE 3" = 1'-0" — 10



DEFLECTION TRACK — SCALE 3" = 1'-0" — 5

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PROJECT INFORMATION

Project Number:	2200065
Drawn By:	Author
Checked By:	GWM
Issue Date:	2/29/24

SHEET NAME

DETAILS

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A-505

Sheet Of Sheets

DESIGN CRITERIA AND LOADS

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:
   CALIFORNIA BUILDING CODE 2022 AND SUPPLEMENTS
   ASCE/SEI 7-16
   (1) ACI 318-19
   ACI 530-13
   AISC 360-16
   AISC 341-16, INCLUDING SUPPLEMENTS
   AWS D1.1
   AISI S100, S240
   NDS-18 AND SDPWS-15
   TMS 402/602-16
2. OCCUPANCY RISK CATEGORY — II
3. SEISMIC:
   SEISMIC DESIGN CATEGORY — D
   IMPORTANCE FACTOR — 1.0
   SOIL CLASSIFICATION PER SITE CLASS — D
   S_S — 1.560 g
   S_1 — 0.604 g
   S_{ds} — 1.040 g
   S_{d1} — 0.685 g

BUILDING	SEISMIC FORCE RESISTING SYSTEM	R	Cd	Ω_0	ρ
SA	LIGHT-FRAME C.F.S. SHEAR WALLS WITH W.S.P./ STEEL SPECIAL MOMENT FRAMES	6.5 / 8	4 / 5.5	3 / 3	1.3
SB	LIGHT-FRAME C.F.S. SHEAR WALLS WITH W.S.P.	6.5	4	3	1.3
SC	SPECIAL REINFORCED CMU SHEAR WALL	5.0	3.5	2.5	1.3
SD	LIGHT-FRAME C.F.S. SHEAR WALLS WITH W.S.P.	6.5	4	3	1.3
SE, SF, SG, SH	SPECIAL REINFORCED CMU SHEAR WALL	5.0	3.5	2.5	1.3
SI	LIGHT-FRAME C.F.S. SHEAR WALLS WITH W.S.P.	6.5	4	3	1.3
SJ	SPECIAL REINFORCED CMU SHEAR WALL	5.0	3.5	2.5	1.3

4. WIND:
   BASIC WIND SPEED — (1) 120 MPH
   IMPORTANCE FACTOR — 1.0
   EXPOSURE CLASS — (1) C
5. LIVE LOADS:
   TYPICAL ROOF — 20 PSF (REDUCIBLE)
   TYPICAL FLOOR — 50 PSF (REDUCIBLE)
   PARTITION LOAD — 15 PSF (UNREDUCIBLE)
   HANDRAILS — MAX OF SIMULTANEOUS VERT AND HORIZ THRUST 50 PLF APPLIED AT THE TOP OF THE RAILING OR 200 LBS IN ANY DIRECTION

   SEE S-103 FOR LOADING PLANS
   NOTE: LIVE LOADS SHALL BE POSTED AS REQUIRED PER SECTION 1603.3 OF CBC.

GENERAL

1. ALL WORK SHALL COMPLY WITH TITLE 24 OF THE CALIFORNIA BUILDING CODE, LATEST EDITION, AND ALL OTHER LOCAL OR STATE AGENCIES HAVING JURISDICTION ON THIS PROJECT.
2. NEITHER THE PROFESSIONAL ACTIVITIES OF THE ENGINEER, NOR THE PRESENCE OF THE ENGINEER OR THEIR EMPLOYEES AND SUBCONSULTANTS AT THE CONSTRUCTION SITE, SHALL RELIEVE THE CONTRACTOR AND ANY OTHER ENTITY OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES INCLUDING BUT NOT LIMITED TO, CONSTRUCTION MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES. THE ENGINEER AND THEIR PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PRECAUTIONS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE JOBSITE SAFETY. THE ENGINEER AND THE ENGINEER'S CONSULTANTS SHALL BE MADE ADDITIONAL INSUREDS UNDER THE CONTRACTOR'S GENERAL LIABILITY INSURANCE POLICY.
3. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION, START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
5. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
6. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
7. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
8. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
9. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
10. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DOES NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
11. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
12. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS. OPENING SIZES AND LOCATIONS SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
13. NO HOLES, NOTCHES, BLOCKOUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
14. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH BIDDER SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE BID SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS.
15. SHOP DRAWINGS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER/GENERAL CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER.
16. SHOP DRAWINGS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DO NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 117, ACI 301, ACI 305.1, ACI 306.1, ACI 308.1, ACI 318 AND SP-066, UNO.
2. CONCRETE MATERIALS SHALL CONFORM TO:
   CEMENT — ASTM C150, TYPE I OR II
   FLY ASH — ASTM C618, TYPE C OR F
   FINE AND COARSE AGGREGATE — ASTM C33
   LIGHTWEIGHT AGGREGATE — ASTM C330
   WATER — POTABLE
   AIR-ENTRAINING ADMIXTURE — ASTM C260
   WATER-REDUCING ADMIXTURE — ASTM C494
3. CONCRETE STRENGTHS SHALL CONFORM TO:

INTENDED USE	28-DAY STRENGTH (PSI)	MAX W/C RATIO	A/E	SLUMP
FOUNDATIONS	4000	0.45	N/A	1"-4"
SLAB-ON-GRADE	4000	0.5	N/A	4"-6"
UNLESS NOTED OTHERWISE	4000	0.45	N/A	1"-4"

4. LIGHTWEIGHT CONCRETE SHALL HAVE A DRY DENSITY OF 107-116 PCF.
5. DRYPACK SHALL BE 1:3-1/2 PORTLAND CEMENT TO SAND WITH A MINIMUM 28-DAY STRENGTH OF 7000 PSI.
6. GROUT SHALL BE 1:3:2 PORTLAND CEMENT TO SAND TO PEA GRAVEL WITH A MINIMUM 28-DAY STRENGTH OF 7000 PSI.
7. SLAB ON GRADE CONSTRUCTION:
   LOCATE SAW CUT CONTROL JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW, UNO. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5:1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS.

THICKNESS (IN)	MAX JOINT SPACING (FT)
4	12
5	13
6	15

8. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ASSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, EDGES OF WALLS/GRADE BEAMS AND PIERS.
9. UNO, ALL FOOTINGS SHALL BE CENTERED UNDER WALLS, PIERS OR COLUMNS.
10. SANDBLAST ALL EXISTING CONCRETE SURFACES OLDER THAN 28 DAYS AGAINST WHICH CONCRETE IS TO BE PLACED, UNLESS DIRECTED OTHERWISE IN WRITING BY THE STRUCTURAL ENGINEER.
11. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL PENETRATIONS THROUGH CONCRETE BEFORE PLACING. SECURE SUCH SLEEVES TO PREVENT MOVEMENT DURING PLACING OPERATIONS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PENETRATIONS.
12. CORE DRILLING CONCRETE IS NOT PERMITTED UNLESS NOTED OTHERWISE OR APPROVED IN WRITING BY THE ARCHITECT. NOTIFY THE ARCHITECT IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS.
13. CONFIRM WITH ARCHITECT THAT MATERIALS TO BE EMBEDDED ARE SUITABLE FOR EMBEDMENT IN CONCRETE.
14. THE OUTSIDE DIAMETER OF EMBEDDED CONDUIT OR PIPE SHALL NOT EXCEED 1/3 OF THE STRUCTURAL SLAB THICKNESS, INCLUDING AT CROSS-OVERS, AND SHALL BE PLACED BETWEEN THE TOP AND BOTTOM REINFORCING WITH A MINIMUM 3" CLEAR COVER. CONDUIT OR PIPE RUNNING PARALLEL TO EACH OTHER SHALL BE SPACED AT LEAST 8" APART AND NO MORE THAN 2 RUNS STACKED VERTICALLY IN THE SLAB. CONDUIT OR PIPE SHALL NOT BE EMBEDDED IN SLAB THICKNESSES LESS THAN 6 INCHES.
15. DO NOT PLACE PIPES, DUCTS, REGLETS OR CHASES IN STRUCTURAL CONCRETE WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER THROUGH THE ARCHITECT.
16. NO ALUMINUM SHALL BE ALLOWED IN THE CONCRETE WORK UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION.
17. WATERSTOPS SHALL BE A FLEXIBLE BENTONITE PVC PRODUCT. ACCEPTABLE PRODUCTS INCLUDE: CETCO WATERSTOP-RX AND GREENSTREAK SWELLSTOP WESTEC BARRIER TECHNOLOGIES TPE-R WATERSTOP AND GREENSTREAK PVC WATERSTOP.
18. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4 INCH CHAMFER, UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
19. SLOPE SLABS TO DRAINS OR FOR POSITIVE DRAINAGE IF NO DRAINS ARE PRESENT, AND PROVIDE DEPRESSIONS WHERE SHOWN ON THE STRUCTURAL AND/OR ARCHITECTURAL DRAWINGS, WITHOUT REDUCING THE THICKNESS OF SLAB INDICATED. FOR SLAB-ON-GRADE DEPRESSIONS GREATER THAN 1 INCH, REFER TO DETAILS FOR ADDITIONAL REINFORCING.
20. INTERNALLY VIBRATE ALL CAST-IN-PLACE CONCRETE EXCEPT SLABS-ON-GRADE WHICH NEED ONLY BE VIBRATED AROUND UNDER FLOOR DUCTS AND OTHER EMBEDDED ITEMS. VIBRATE TOPS OF COLUMNS.
21. PROVIDE VERTICAL CONTROL JOINTS IN EXPOSED CONCRETE WALLS AT A MINIMUM UNIFORM SPACING NOT TO EXCEED 25 FEET PER ACI 224.3. COORDINATE JOINT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
22. CONCRETE SHALL NOT BE PERMITTED TO DROP MORE THAN 5 FEET.
23. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE WALLS SHALL BE LEFT IN PLACE FOR 7 DAYS OR MAY BE STRIPPED AFTER 3 DAYS AND COATED WITH AN APPROVED CURING COMPOUND.
24. NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER 48 HOURS MINIMUM PRIOR TO ALL POURS.
25. THE DESIGN AND ENGINEERING OF FORMWORK, AS WELL AS ITS CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMS SHALL BE DESIGNED TO HAVE SUFFICIENT STRENGTH TO SAFELY WITHSTAND THE LOADS RESULTING FROM PLACEMENT AND VIBRATION OF THE CONCRETE, AND SHALL ALSO BE DESIGNED FOR SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES. CONTRACTOR SHALL SUBMIT DETAILED FORMWORK SHOP DRAWINGS TO THE ARCHITECT TO BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT ONLY.
26. THE STRUCTURAL STEEL FRAME WILL DEFLECT WHILE CONCRETE IS BEING PLACED. THIS WILL RESULT IN THE NEED TO ADJUST SCREEDS AFTER CONCRETE HAS BEEN PLACED TO PRODUCE A LEVEL SURFACE. ADDITIONAL CONCRETE WILL BE REQUIRED, AND IS ANTICIPATED, AT NO EXTRA COST.
27. NO CONCRETE SHALL BE PLACED ONTO OR AGAINST SUBGRADES CONTAINING FREE WATER, FROST, ICE OR SNOW.
28. DURING WINTER CONSTRUCTION, ALL FOOTINGS SHALL BE PROTECTED FROM FROST PENETRATION UNTIL THE BUILDING IS ENCLOSED AND TEMPORARY HEAT IS PROVIDED.
29. THE CONCRETE CONTRACTOR SHALL FURNISH MIX DESIGN SHOP DRAWINGS FOR REVIEW.
30. GENERAL CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR SIZE, LOCATION AND HEIGHT OF MECHANICAL EQUIPMENT PADS ON CONCRETE SLAB ON STEEL DECK AND SLAB-ON-GRADE.

HIGH LIFT GROUTED CONSTRUCTION

1. WHERE HIGH LIFT GROUTING IS USED, CONFORM TO THE SPECIFICATIONS AND THE CALIFORNIA BUILDING CODE.
2. CLEANOUT OPENINGS SHALL BE PROVIDED AT THE BOTTOM OF EACH POUR OF GROUT. ANY OVERHANGING MORTAR OR OTHER DEBRIS SHALL BE REMOVED FROM THE INSIDES OF CELL WALLS.
3. THE FOUNDATION OR OTHER HORIZONTAL CONSTRUCTION JOINTS SHALL BE CLEANED OF ALL LOOSE MATERIAL AND MORTAR DROPPINGS BEFORE EACH POUR.
4. THE CLEANOUTS SHALL BE SEALED BEFORE GROUTING. ALL CELLS SHALL BE FILLED.
5. AN APPROVED ADMIXTURE REDUCING EARLY WATER LOSS AND PRODUCING AN EXPANSION ACTION SHALL BE USED IN THE GROUT.

(1)

DESIGN-BUILD SUBMITTAL ITEMS

1. DESIGN, FABRICATION AND INSTALLATION OF DESIGN-BUILD SUBMITTAL ITEMS SHALL CONFORM TO ALL PROJECT REQUIREMENTS. SUPPLIER SHALL SUBMIT COMPLETE DRAWINGS AND CALCULATIONS SIGNED BY AN ENGINEER, REGISTERED IN THE STATE OF THE PROJECT,TO THE GOVERNING AGENCY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
2. DEFERRED SUBMITTAL ITEMS INCLUDE:
   A. STEEL STAIRS
   B. PREFABRICATED METAL PANEL CLADDING
   C. SUPPORT AND ANCHORAGE OF FIRE & LIFE SAFETY EQUIPMENT, UNO
   D. SOLAR PANELS
   E. GLASS RAIL SYSTEM
   F. STOREFRONT SYSTEM

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE "ACI DETAILING MANUAL" (SP-066) EXCEPT AS OTHERWISE SHOWN, NOTED OR SPECIFIED.
2. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS:
   DEFORMED BARS — ASTM A615, GR60 — Fy = 60 KSI
   DEFORMED BARS IN SFRS — ASTM A706, GR 60 — Fy = 60 KSI
   WELDED WIRE REINFORCING — ASTM A1064 — Fy = 65 KSI
   EPOXY-COATED BARS — ASTM A775 — Fy = 60 KSI
   GALVANIZED-COATED BARS — ASTM A767 — Fy = 60 KSI
   STEEL WIRE — ASTM A1064 — Fy = 60 KSI
3. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:
   CAST AGAINST AND PERMANENTLY IN CONTACT WITH GROUND — 3"
   EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
   #6 BARS OR LARGER — 2"
   #5 BARS OR SMALLER — 1 1/2"
   NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND
   SLABS, JOISTS AND WALLS WITH #14 AND #18 BARS — 1 1/2"
   SLABS, JOISTS AND WALLS WITH #11 BARS OR SMALLER — 3/4"
   BEAMS, COLUMNS, PEDESTALS AND TENSION TIES — 1 1/2"
4. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' AS DEFINED IN ACI 318. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTH (IN INCHES) AS FOLLOWS:

	3000 PSI CONCRETE		4000 PSI CONCRETE		5000 PSI CONCRETE	
BAR SIZE	OTHER	TOP	OTHER	TOP	OTHER	TOP
#3	22	28	19	25	17	22
#4	29	38	25	33	23	29
#5	36	47	31	41	28	36
#6	43	56	37	49	34	44
#7	63	81	54	71	49	63
#8	72	93	62	81	56	72
#9	81	105	70	91	63	81
#10	90	116	78	101	69	90
#11	98	128	85	111	76	99

   LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS, DIVIDE BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1'-0" OF FRESH CONCRETE BELOW.
5. ALL REINFORCING IN CONCRETE USED FOR THE CONTAINMENT OF WATER SHALL BE HOT-DIP GALVANIZED OR EPOXY-COATED.
6. USE LOW HYDROGEN ELECTRODES, GRADE E-90, FOR WELDING OF REINFORCING BARS.
7. PROVIDE ADEQUATE TIES FOR ALL REINFORCING BARS AND STIRRUPS IN CONCRETE SLABS AND BEAMS. ANCHOR BOLTS, DOWELS, REINFORCING STEEL, INSERTS, ETC., SHALL BE SECURELY TIED IN PLACE PRIOR TO POURING CONCRETE. CONCRETE BLOCKS SHALL ONLY BE USED TO SUPPORT REINFORCING OFF GRADE.
8. SUPPORTS FOR REINFORCEMENT SHALL HAVE CLASS 2 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNO.
9. SUPPORTS FOR COATED REINFORCEMENT SHALL HAVE CLASS 1 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNO.
10. CONTINUOUS REINFORCING SHALL BE LAPPED AT MIDSPAN FOR TOP BARS AND DIRECTLY OVER THE SUPPORT FOR BOTTOM BARS.
11. ALL WELDED WIRE REINFORCING (WWR) SHALL BE LAPPED 2 PANELS AT EDGES AND ENDS.
12. DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY, UNO.
13. ALL TOP BARS IN GRADE BEAMS SHALL BE CONTINUOUS OVER SUPPORTS AND LAP AT MID-SPAN BETWEEN SUPPORTS. WHERE GRADE BEAMS ARE SIMPLE SPAN, TOP BARS SHALL BE CONTINUOUS FOR FULL LENGTH AND HOOKED DOWN AT EACH END.
14. ALL BOTTOM BARS IN GRADE BEAMS SHALL BE CONTINUOUS BETWEEN SUPPORTS AND LAP OVER SUPPORTS.
15. REINFORCING IN WALL FOOTINGS BETWEEN COLUMNS SHALL EXTEND INTO COLUMN FOOTINGS A MINIMUM OF 2 FEET.
16. REINFORCING IN FOOTINGS AND GRADE BEAMS SHALL BE ACCURATELY PLACED, SPACED, SUPPORTED AND SECURED BEFORE PLACING CONCRETE.
17. CUTTING OF REINFORCING WHICH CONFLICTS WITH EMBEDDED OBJECTS IS NOT ACCEPTABLE.
18. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED.
19. FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER.
20. SUBMIT SHOP DRAWINGS FOR FABRICATION AND PLACEMENT OF REINFORCING STEEL. INCLUDE SCHEDULES AND DIAGRAMS OF BENT BARS AND SHOW ARRANGEMENT OF REINFORCEMENT. STRUCTURAL ENGINEER'S REVIEW WILL BE FOR COMPLIANCE WITH DESIGN REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND QUANTITIES.

MASONRY

1. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR MASONRY CONSTRUCTION SHALL BE:
   DESIGN ASSEMBLY STRENGTH, f'm — 2000 PSI
   INDIVIDUAL CONCRETE MASONRY UNITS — 2800 PSI
   MORTAR — 1800 PSI
   GROUT — 2000 PSI
2. MASONRY MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS:
   CONCRETE MASONRY UNITS (CMU) — ASTM C90, GRADE N-1
   MORTAR — ASTM C270, TYPE S
   GROUT — ASTM C476
   REINFORCING STEEL — ASTM A615, GR 60
   PLATE AND BENT BAR ANCHORS — ASTM A36
   SHEET METAL ANCHORS AND TIES — ASTM A1008
   WIRE MESH TIES — ASTM A1064
   WIRE TIES AND ANCHORS — ASTM A951
   ANCHOR BOLTS — ASTM A307, GRADE A
3. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. IF SPLICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS EXCEPT BARS LARGER THAN #9 SHALL BE MECHANICALLY SPLICED.
4. LOAD BEARING MASONRY SHALL HAVE FULL HEIGHT 9 GAUGE MINIMUM HORIZONTAL REINFORCEMENT NOT TO EXCEED 16" OC VERTICALLY.
5. ALL LOAD BEARING MASONRY WALLS TO HAVE FULL BED, HEAD AND COLLAR JOINTS.
6. ALL CELLS SHALL BE FILLED WITH GROUT, UNLESS NOTED OTHERWISE.
7. PROVIDE A MINIMUM OF 1 INCH GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND MASONRY UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL, UNO.
8. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
9. ALL CELLS CONTAINING REINFORCING SHALL BE FILLED SOLID WITH GROUT, AND ALSO WHERE NOTED ON THE DRAWINGS.
10. STACK BOND LAID MASONRY SHALL HAVE VERTICAL REINFORCEMENT AT MAXIMUM 16" OC SPACING.
11. COORDINATE ANY UNIDENTIFIED PIPE OR DUCT PASSING THROUGH STRUCTURAL MASONRY WALLS, UNLESS NOTED OR DETAILED SPECIFICALLY.
12. REFER TO ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE. ALL BLOCK SHALL BE RUNNING BOND, UNO.
13. THE LOAD BEARING CONCRETE MASONRY WALLS FOR THIS PROJECT WERE DESIGNED TO SPAN VERTICALLY AND BE BRACED BY THE ROOF AND FLOOR FRAMING ELEMENTS OF THE STRUCTURE. DURING CONSTRUCTION, THE MASONRY CONTRACTOR SHALL PROVIDE LATERAL BRACING UNTIL THE ROOF STRUCTURE IS INSTALLED AS RECOMMENDED BY ACI 530 TMS 402/602 AND THE "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION", PREPARED BY THE COUNCIL FOR MASONRY WALL BRACING. THIS BRACING IS TO PREVENT UNNECESSARY STRESS OR DAMAGE TO THE MASONRY WALLS FROM WIND LOADS, WHICH CAN OCCUR WHILE THE WALLS ARE NOT PROPERLY BRACED BY THE ROOF AND FLOOR STRUCTURE.
14. THE MASONRY CONTRACTOR SHALL FURNISH SHOP DRAWINGS OF PRODUCT DATA, REINFORCEMENT DETAILS, AND MIX DESIGNS FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.

STRUCTURAL SHEET INDEX

SHEET NUMBER	SHEET NAME
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S-103	LOADING DIAGRAMS
SS-200	SITE PLAN
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SA-203	ADMINISTRATION BUILDING SECOND FLOOR FRAMING PLAN
SA-204	ADMINISTRATION BUILDING ROOF CEILING PLAN
SA-205	ADMINISTRATION BUILDING ROOF FRAMING PLAN
SA-206	ADMINISTRATION BUILDING SECTIONS
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SA-208	ADMINISTRATION BUILDING MOMENT FRAME ELEVATIONS
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SBC-203	MEDICAL CLINIC ROOF PLAN
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SBC-205	MEDICAL CLINIC WALL ELEVATIONS
SBC-206	MEDICAL CLINIC WALL ELEVATIONS
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SD-203	CAT BUILDING ROOF PLAN
SD-204	CAT BUILDING SECTIONS
SE-201	ADOPTION DOG BUILDING FOUNDATION PLAN
SE-202	ADOPTION DOG BUILDING CEILING PLAN
SE-203	ADOPTION DOG BUILDING ROOF PLAN
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SE-205	ADOPTION DOG BUILDING WALL ELEVATIONS
SE-206	ADOPTION DOG BUILDING WALL ELEVATIONS
SI-201	SUPPORT BUILDING STRUCTURAL FLOOR PLAN
SI-202	SUPPORT BUILDING CEILING PLAN
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SI-204	SUPPORT BUILDING SECTIONS
SJ-201	ADOPTION DOG BUILDING FOUNDATION PLAN
SJ-202	ADOPTION DOG BUILDING CEILING PLAN
SJ-203	ADOPTION DOG BUILDING ROOF PLAN
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S-301	TYPICAL CONCRETE DETAILS
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S-303	TYPICAL CONCRETE DETAILS
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S-400	TYPICAL CMU DETAILS
S-500	TYPICAL STEEL DETAILS
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S-502	TYPICAL STEEL DETAILS
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S-700	TYPICAL EXTERIOR METAL STUD DETAILS
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S-702	TYPICAL INTERIOR METAL STUD DETAILS
S-703	TYPICAL INTERIOR METAL STUD DETAILS
S-704	TYPICAL METAL STUD DETAILS
S-705	TYPICAL METAL STUD DETAILS
S-706	TYPICAL METAL STUD SHEAR WALL DETAILS
S-707	TYPICAL METAL STUD DETAILS
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S-709	TYPICAL METAL STUD DETAILS
S-710	TYPICAL METAL STUD DETAILS
S-711	TYPICAL FRAMING DETAILS
S-800	EQUIPMENT ANCHORAGE DETAILS
GRAND TOTAL: 64	

FOUNDATION

1. FOUNDATION DESIGN IS BASED ON SOILS REPORTS BY:
   CONVERSE CONSULTANTS, DATED: JANUARY 18, 2022, CONVERSE PROJECT NO. 22-81-206-01
2. FOUNDATION TYPE: SPREAD FOOTING
3. DESIGN ALLOWABLES:
   A. SOIL BEARING: 2,500 PSF (DL+LL), 3,325 PSF (WIND/EQ) BASED ON MIN 18" WIDE WALL FOOTING AND 18" SQUARE PAD FOOTING (18" MINIMUM DEPTH) W/ INCREASE OF 100 PSF PER ADD'L FOOT OF WIDTH AND 500 PSF PER ADD'L FOOT OF DEPTH TO MAXIMUM 3,500 PSF
   B. LATERAL BEARING: 220 PSF/FT (PASSIVE PRESSURE, MAX 2,500 PSF)
   C. COEFFICIENT OF FRICTION: 0.35
4. FOLLOW RECOMMENDATIONS IN SOIL REPORT FOR ALL FOUNDATION WORK.
5. THE SOILS ENGINEER SHALL VERIFY CONDITION AND/OR ADEQUACY OF ALL EXCAVATIONS, SUB GRADES, FILLS AND BACK FILLS. NO REINFORCEMENT OR CONCRETE SHALL BE PLACED IN ANY EXCAVATION OR ON ANY SUBGRADE OR FILL UNTIL THAT WORK HAS BEEN REVIEWED AND APPROVED IN WRITING BY THE SOILS ENGINEER.
6. (1) ALL FOOTINGS SHALL BEAR ON COMPACTED STRUCTURAL FILL.
   THE TOP OF FOOTING ELEVATIONS ARE SHOWN ON THE PLANS. WHERE SOFT OR LOOSE MATERIAL IS FOUND AT
   BOTTOM OF FOOTING ELEVATIONS, THE SOFT OR LOOSE MATERIAL SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL AS DIRECTED BY THE SOILS ENGINEER.
7. THE SIDES OF FOUNDATIONS SHOWN STRAIGHT ARE FORMED. FOUNDATIONS POURED AGAINST THE EARTH AT CONTRACTOR'S OPTION REQUIRE THE FOLLOWING PRECAUTIONS:
   A. SIDES OF EXCAVATION MUST BE VERTICAL (OVER POURING AND MUSHROOMING NOT ALLOWED).
   B. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP OF SOIL SLOUGHING BEFORE, DURING, AND AFTER POUR.
8. CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATION FOR EITHER SURFACE WATER, GROUND WATER OR SEEPAGE IF REQUIRED.
9. BACK FILL OVER EXCAVATED FOOTINGS WITH CONCRETE OF SAME DESIGN STRENGTH AS FOOTING CONCRETE OR COMPACTED STRUCTURAL FILL, AS DIRECTED OTHERWISE BY THE SOILS ENGINEER.
10. STEP CONTINUOUS FOOTINGS AT VARYING ELEVATIONS PER TYPICAL DETAIL. SLOPING OF FOOTINGS IS PROHIBITED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES, EXISTING STRUCTURES, ETC., WHETHER INDICATED OR NOT, WHICH MAY BE AFFECTED BY THE CONSTRUCTION PROCESS.
12. UTILITY LINES SHALL NOT BE PLACED THROUGH OR BELOW FOUNDATIONS WITHOUT THE STRUCTURAL ENGINEER'S APPROVAL.
13. SLABS ON GRADE SHALL BE SUPPORTED ON NATURAL GRADE OR COMPACTED STRUCTURAL FILL ACCORDING TO THE RECOMMENDATIONS OF THE SOILS REPORT.
14. THE SLOPE BETWEEN THE LOWER EDGES OF ADJACENT FOUNDATIONS SHALL NOT EXCEED 45 DEGREES WITH THE HORIZONTAL, UNLESS INDICATED OTHERWISE IN THE DRAWINGS. MAINTAIN A 1:1 SLOPE FROM BOTTOM EDGE OF ANY EXCAVATION.
15. DURING BACKFILLING OPERATIONS, FOUNDATION WALL BACKFILL SHALL NOT BE UNBALANCED BY MORE THAN TWO FEET ON EITHER SIDE AT ANY TIME.
16. THE CONTRACTOR SHALL PROVIDE FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEETING AND SHORING ETC. REQUIRED FOR CONSTRUCTION OF THE PROJECT AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES.

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REF. SCALE IN INCHES — PROJECT #22007569.00

REGISTERED PROFESSIONAL ENGINEER — CRAIG M. CHAMBERLAIN — No. 4588 — Exp. 06-30-25 — STRUCTURAL — STATE OF CALIFORNIA

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initials	date	phase

REVISIONS/ADDENDA

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

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PROJECT INFORMATION

Project Number:	22007569.00
Drawn By:	HYK
Checked By:	JP
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SHEET NAME

GENERAL NOTES

SHEET NUMBER

S-101

Sheet Of Sheets

COLD-FORMED STEEL FRAMING (CFSF) SYSTEM

1. MATERIAL, DESIGN AND MANUFACTURE SHALL BE IN ACCORDANCE WITH THE "STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS" OF THE AMERICAN IRON AND STEEL INSTITUTE.
2. STEEL STUDS, HEADERS, TRACKS, AND OTHER ELEMENTS USED FOR THIS PROJECT ARE SIZED BASED ON SSMA. ELEMENTS OF EQUAL OR GREATER CAPACITY MAY BE EXCHANGED.
3. STRUCTURAL CFSF SHALL BE SUPPLIED BY A CURRENT MEMBER OF THE STEEL STUD MANUFACTURERS ASSOCIATION.
4. COLD-FORMED STRUCTURAL STUDS SHALL CONFORM TO THE FOLLOWING STANDARDS:

ROLLED SECTIONS, CONNECTION MATERIAL, AND STIFFENER PLATES		
18 GAUGE AND THINNER	ASTM A653, GR 33	Fy = 33 KSI
16 GAUGE AND THICKER	ASTM A653, GR 50	Fy = 50 KSI
CONNECTION MATERIAL >3/16"	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
BOLTS	ASTM A307	Fv = 10 KSI
HOT-DIP COATING	ASTM A924, G60	
ELECTRO-PLATE COATING	ASTM A591	
ALUMINUM-ZINC COATING	ASTM A792, GR 40	
INSTALLATION	ASTM C955 AND ASTM C1007	
ELECTRODES FOR ARC WELDING	AWS 5.1, E60XX	

5. STRUCTURAL COLD FORM STEEL FRAMING IS DEFINED AS THE FOLLOWING:
   A. ANY COLD FORMED FRAMING THICKER THAN 20 GA (33 MIL)
   B. ANY EXTERIOR COLD FORMED FRAMING
   C. ALL OTHER STEEL STUD FRAMING IS NON-STRUCTURAL AND NOT A PART OF THE STRUCTURAL PACKAGE
6. STRUCTURAL CFSF IS PERFORMANCE SPECIFIED. DESIGN INFORMATION INCLUDED IN THESE DOCUMENTS IS TO BE CONSIDERED A GUIDELINE FOR BIDDING PURPOSES ONLY. STUD DEPTH IS REQUIRED TO MEET THOSE INDICATED ON THE PLANS. CONNECTION DETAILS ARE ONLY AN INDICATION OF SUGGESTED SUPPORT AND SLIP JOINT ORIENTATION. GAUGE, SECTION, MATERIAL, BRACING, CONNECTIONS, STIFFENERS, AND SIMILAR DETAILS ARE THE RESPONSIBILITY OF THE MANUFACTURER BASED ON LOADS GIVEN ON THE PLANS.
7. PROVIDE TRACKS, BLOCKING, HEADERS, CLIP ANGLES, BRIDGING, SHOES, REINFORCEMENTS, FASTENERS AND ACCESSORIES TO PROVIDE A COMPLETE METAL FRAME SYSTEM IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. BEARING STUDS MUST BE FABRICATED WITH FULL STUD END SEATED AGAINST TRACK WEB. DO NOT USE STUD THAT HAS BEEN CUT AT PUNCHOUT.
9. FRAMING FABRICATOR SHALL ENSURE PUNCHOUT ALIGNMENT WHEN ASSEMBLING FRAMING AND FIELD CUTTING TO LENGTH.
10. TRACK SHALL BE THE SAME SIZE AND GAUGE AS THE STUD.
11. UNIFORM BEARING SURFACE SHALL BE PROVIDED WITH A MAXIMUM 1/4 INCH GAP BETWEEN BOTTOM TRACK AND THE FOUNDATION OR SLAB. IT SHALL BE ACCOMPLISHED BY THE USE OF LOAD BEARING SHIMS AND/OR GROUT PROVIDED BETWEEN THE UNDERSIDE OF THE WALL BOTTOM TRACK AND THE TOP OF THE FOUNDATION OR SLAB AT EACH STUD.
12. IN THE EVENT A TRACK BUTT JOINT OCCURS WITHIN A PANEL, ABUTTING PIECES OF TRACK SHALL BE BUTT WELDED OR SPLICED TOGETHER. NO SUCH SPLICES SHALL OCCUR AT ANY HEAD OR SILL CONDITION.
13. FRAME WALL OPENINGS LARGER THAN 2'-0" SQUARE WITH DOUBLE STUD AT EACH JAMB OF FRAME EXCEPT WHERE MORE THAN 2 ARE SHOWN OR INDICATED. INSTALL RUNNER TRACKS AND JACK STUDS ABOVE AND BELOW WALL OPENINGS. ANCHOR TRACKS TO JAMB STUDS BY WELDING, AND SPACE JACK STUDS SAME AS FULL HEIGHT STUDS OF WALL. SECURE STUD SYSTEM WALL OPENING FRAME IN MANNER INDICATED.
14. INSTALL HORIZONTAL BRIDGING IN STUD SYSTEM NOT MORE THAN 5'-0" ON CENTER. FASTEN AT EACH STUD INTERSECTION.
15. UNLESS OTHERWISE NOTED, ATTACH MATERIALS BY BOLTING OR SCREW FASTENERS.
   A. SCREW CONNECTIONS:
      1) SCREWS LARGER THAN SPECIFIED MAY BE USED, PROVIDED THE MINIMUM SPACING AND EDGE DISTANCE REQUIREMENTS ARE MET.
      2) SCREWS SHALL BE FULLY DRIVEN AND HAVE A MINIMUM PENETRATION OF THREE THREADS THROUGH THE LAST MATERIAL JOINED.
      3) SCREWS SHALL HAVE A PROTECTIVE COATING COMPLYING WITH RECOGNIZED DESIGN STANDARDS FOR THE PROJECT ENVIRONMENTAL CONDITIONS.
   B. BOLT CONNECTIONS:
      1) BOLTS SHALL MEET OR EXCEED THE REQUIREMENTS OF ASTM A307 AND SHALL BE INSTALLED WITH NUTS AND WASHERS AT SPACING PER RECOGNIZED DESIGN STANDARD.
   C. WELD CONNECTIONS:
      1) ALL WELDED CONNECTIONS ARE TO BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.3 FOR WELDING SHEET STEEL IN STRUCTURES.
16. UNLESS INDICATED OTHERWISE ON THE DRAWINGS OR IN SHEAR WALL PANELS, FASTEN GYPSUM BOARD WITH #6 x 1" BUGLE HEAD SCREWS AT 12" OC AT ALL SUPPORTS AND EDGES.
17. WEB CRIPPLING BASED ON MINIMUM 10" UNPUNCHED STEEL AT BOTH ENDS.
18. ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS.
19. ALL FIELD CUTTING OF STUDS SHALL BE DONE BY SAWING.
20. PREFABRICATED COLD FORM TRUSSES:
   A. DESIGN, FABRICATE, TRANSPORT AND ERECT COLD FORM TRUSSES IN ACCORDANCE WITH AISI S214 STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
   B. DESIGN FOR LOADS, IN ADDITION TO MEMBER WEIGHTS, AS GIVEN IN THE DESIGN CRITERIA NOTES AND AS NOTED ON THE DRAWINGS.
   C. PRE-FABRICATED PRE-ENGINEERED TRUSSES ARE PERFORMANCE SPECIFIED. DESIGN INFORMATION INCLUDED IN THESE DOCUMENTS IS TO BE CONSIDERED SCHEMATIC. SECTION, BRACING, CONNECTIONS, AND SIMILAR DETAILS ARE THE RESPONSIBILITY OF THE MANUFACTURER BASED ON LOADS GIVEN ON THE PLANS AND SPECIFICATIONS.
   D. TRUSS CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING THE PROPERLY SIZED ANCHORAGE FOR TRUSS-TO-TRUSS CONNECTIONS.
   E. ALL PERMANENT AND TEMPORARY BRACING AND FASTENING AT BEARINGS SHALL BE DESIGNED BY THE TRUSS MANUFACTURER, UNO.
21. CONSTRUCTION SHALL NOT BEGIN UNTIL SHOP DRAWINGS AND CALCULATIONS HAVE BEEN REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER. SUBMIT COMPLETE TECHNICAL INFORMATION ON ALL COLD-FORMED STEEL STRUCTURAL MEMBERS, INCLUDING SECTION PROPERTIES, ALLOWABLE DESIGN STRESSES, DESCRIPTION OF CONNECTIONS AND FINISHES. DO NOT PROCEED WITH INSTALLATION UNTIL SUBMITTALS HAVE BEEN REVIEWED AND RETURNED.

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MECHANICAL SYSTEMS AND SUSPENDED CEILINGS

1. HVAC DUCTWORK SHALL BE INSTALLED PER ASCE 7-16 SECTION 13.6.6 UNDER EXCEPTION 2. THE FOLLOWING CONDITIONS ARE APPLICABLE:
   A. PROVISIONS ARE MADE TO AVOID IMPACT WITH OTHER DUCTS OR MECHANICAL COMPONENTS OR TO PROTECT THE DUCTS IN THE EVENT OF SUCH IMPACT.
   B. THE DISTRIBUTION SYSTEM IS POSITIVELY ATTACHED TO THE STRUCTURE.
   C. HVAC DUCTS HAVE A CROSS SECTIONAL AREA OF LESS THAN 6 SQ. FT. AND WEIGH LESS THAN 20 LB/FT.
2. SUSPENDED CEILING SHALL BE INSTALLED PER ASCE 7-16 SECTION 13.5.6.2.2 AND SHALL COMPLY WITH THE FOLLOWING:
   A. THE WIDTH OF PERIMETER CLOSURE ANGLE OR CHANNEL SHALL NOT BE LESS THAN 2" UNLESS QUALIFIED PERIMETER SUPPORTING CLIPS ARE USED.

STRUCTURAL OBSERVATION

1. THE OWNER SHALL EMPLOY THE ENGINEER RESPONSIBLE FOR THE STRUCTURAL DESIGN TO PERFORM STRUCTURAL OBSERVATION AS DEFINED IN IBC SECTION 1704. OBSERVED DEFICIENCIES SHALL BE REPORTED IN WRITING TO THE OWNER'S REPRESENTATIVE, SPECIAL INSPECTOR, CONTRACTOR AND THE BUILDING OFFICIAL THE STRUCTURAL OBSERVER SHALL SUBMIT TO THE BUILDING OFFICIAL A WRITTEN STATEMENT THAT THE SITE VISITS HAVE BEEN MADE AND IDENTIFYING ANY REPORTED DEFICIENCIES WHICH, TO THE BEST OF THE STRUCTURAL OBSERVER'S KNOWLEDGE, HAVE NOT BEEN RESOLVED.

2. STRUCTURAL OBSERVATION SHALL BE PERFORMED FOR THE FOLLOWING CONSTRUCTION STAGES:
   A. PRIOR TO CONCRETE POUR(S) AT:
      1) FIRST PLACEMENT @ FOUNDATIONS
      2) FIRST PLACEMENT @ GROUND LEVEL SLABS
      3) FIRST PLACEMENT @ ABOVE GROUND WALLS & COLUMNS
   B. PRIOR TO COVER OF:
      1) WALL FRAMING SYSTEMS
      2) FLOOR FRAMING SYSTEMS
      3) ROOF FRAMING SYSTEMS

STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING FOR STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:

WIDE FLANGE SHAPES	ASTM A992	Fy = 50 KSI
OTHER ROLLED SHAPES	ASTM A36	Fy = 36 KSI
PIPE SECTIONS	ASTM A53, GR B	Fy = 35 KSI
HSS SECTIONS, ROUND	ASTM A500, GR C	Fy = 46 KSI
HSS SECTIONS, SQ/RECT	ASTM A500, GR B	Fy = 46 KSI
BASE AND CONNECTION PLATES	ASTM A36	Fy = 36 KSI
ANCHOR RODS	ASTM F1554, GR 36	Fy = 36 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A325	Fv = 120 KSI
HIGH STRENGTH BOLTS	ASTM F3125, GR A490	Fv = 150 KSI
HIGH STRENGTH TWIST-OFF BOLTS	ASTM F3125, GR F1852	Fv = 120 KSI
HIGH STRENGTH TWIST-OFF BOLTS	ASTM F3125, GR F2280	Fv = 150 KSI
HEAVY HEX NUTS	ASTM A563	
WASHERS	ASTM F436	
HEADED STUDS	ASTM A108, TYPE B	
ELECTRODES FOR ARC WELDING	AWS 5.1, E70XX	

3. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". REFER TO DETAILS FOR BOLT SIZE AND MATERIAL ASTM DESIGNATION.
4. USE TENSION-CONTROL, "TWIST-OFF", BOLTS FOR ALL HIGH STRENGTH BOLTS REQUIRING FULL TENSION AS INDICATED ON THE DRAWINGS.
5. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325N, UNO. FOR ALL DRAG STRUT BOLTS, HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM F3125, GRADE A490SC.
6. ALL BOLTED CONNECTIONS SHALL BE BEARING TYPE, UNLESS NOTED OTHERWISE.
7. STANDARD BOLT HOLES IN STEEL SHALL BE 1/16 INCH LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, UNO.
8. BOLTS IN SLOTTED HOLES SHALL BE LOCATED IN THE CENTER OF THE HOLE AFTER FIELD ASSEMBLY IS COMPLETE, UNLESS DETAILED OTHERWISE.
9. ALL WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE - STEEL" (AWS D1.1), "STRUCTURAL WELDING CODE - SEISMIC SUPPLEMENT" (AWS D1.8), AND BE MADE WITH APPROVED ELECTRODES.
10. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC 360, SECTION J2.4 AND CHAPTER 22 OF THE CALIFORNIA BUILDING CODE.
11. USE BACKING FOR ALL FULL PENETRATION WELDS. ALL FULL AND/OR PARTIAL PENETRATION WELDS SHALL BE FULLY DETAILED ON THE SHOP DRAWINGS.
12. WELD ACCESS HOLES SHALL BE FABRICATED IN ACCORDANCE WITH THE RECOMMENDATIONS OF AWS D1.1.
13. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING CALLED FOR. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).
14. FIELD CONNECTIONS SHALL BE WELDED OR BOLTED. SHOP CONNECTIONS SHALL BE WELDED, UNO. WELDS INDICATED WITH A SHOP WELD SYMBOL MAY BE MADE IN THE FIELD WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. LOCATIONS OF ALL FIELD WELDS SHALL BE CLEARLY SHOWN ON THE SHOP DRAWINGS. WELDS SHALL BE DESIGNED TO BE FULLY EQUIVALENT IN STRENGTH TO BOLTED CONNECTIONS DETAILED TO MINIMIZE BENDING IN THE CONNECTION.
15. HEADED STUDS:
   A. SHALL BE FABRICATED IN ACCORDANCE WITH AWS D1.1 AND WITHIN THE TOLERANCES SET FORTH IN AWS D1.1.
   B. SHALL BE NELSON GRANULAR FLUX-FILLED SHEAR CONNECTOR OR ANCHOR STUDS (OR APPROVED EQUIVALENT). STUDS SHALL BE MANUFACTURED OF COLD ROLLED STEEL WHICH CONFORMS TO ASTM A108.
   C. STUDS SHALL BE AUTOMATICALLY END WELDED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS IN SUCH A MANNER AS TO PROVIDE COMPLETE FUSION BETWEEN THE END OF THE STUD AND THE PLATE. THERE SHOULD BE NO POROSITY OR EVIDENCE OF LACK OF FUSION BETWEEN THE WELDED END OF THE STUD AND THE PLATE. THE STUD SHALL DECREASE IN LENGTH DURING WELDING APPROXIMATELY 1/8" FOR 5/8"ø AND SMALLER AND 3/16" FOR LARGER THAN 5/8"ø. WELDING SHALL BE DONE ONLY BY QUALIFIED WELDERS APPROVED BY THE INSPECTION AGENCY.
16. ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION. ABRADED AREAS TO BE TOUCHED UP WITH GALVALOY. ALL HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS.
17. PROVIDE ONE SHOP COAT OF PAINT ON STRUCTURAL STEEL EXPOSED TO PUBLIC VIEW ONLY.
18. REFER TO DRAWINGS FOR DETAIL OF DECK OPENINGS. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, ETC. FOR EXACT SIZE, LOCATION, AND COUNT OF REQUIRED OPENINGS.
19. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER. NO HOLES SHALL BE CUT IN STRUCTURAL STEEL BY OTHER TRADES UNLESS SHOWN ON STRUCTURAL DRAWINGS OR APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
20. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANGLES, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS.
21. NON-SHRINK GROUT FOR BASE AND BEARING PLATES SHALL BE A PRE-MIXED, NON-METALLIC, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING SELECTED SILICA SAND, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS AND PLASTICIZING/WATER REDUCING AGENTS. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 7000 PSI
22. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.

STEEL DECK

1. STEEL DECK SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE STEEL DECK INSTITUTE.
2. ROOF DECKING [ACOUSTICAL DECK REQUIRED WHERE INDICATED]:
   A. TYPE B DECK 1 1/2" DEEP X GA, AS INDICATED, GALVANIZED G60 ASTM A 653 DESIGNATION SS GRADE 33 OR ASTM A 924.
      1.) MINIMUM ATTACHMENT REQUIREMENTS:
         a. INTERIOR BEARING SUPPORTS-5/8" DIA. PUDDLE WELDS AT [4] PER 36" WIDE SHEET.
         b. AT SEAMS: VSC2 SIDELAPS @ 12" OC.
         c. AT PARALLEL EDGE: 5/8" DIA. PUDDLE WELDS @ 12"] OC.
         d. AT EDGE CLOSURE TO FULL WIDTH SHEET: No. 10 SCREWS @ 4" OC.
         e. EXTERIOR BEARING SUPPORTS: 5/8" DIA. PUDDLE WELDS AT [4] PER 36" WIDE SHEET.
3. FLOOR DECKING:
   A. TYPE W DECK, DEPTH AND GAGE AS INDICATED, GALVANIZED G60 VENTED COMPOSITE TYPE, ASTM A 653 DESIGNATION SS GRADE 33 OR ASTM A924.
      1.) MINIMUM ATTACHMENT REQUIREMENTS:
         a. INTERIOR BEARING SUPPORTS: 5/8" DIAMETER PUDDLE WELDS OR POWDER ACTUATED FASTENERS AT 4 PER 36" WIDE SHEET.
         b. SEAMS: VSC2 SIDELAPS @ 12" OC.
         c. PARALLEL EDGE: 5/8" DIA. PUDDLE WELDS @ 18" OC.
         d. EDGE CLOSURE TO FULL WIDTH SHEET: No. 10 SCREWS @ 4" OC.
         e. EXTERIOR BEARING SUPPORTS 5/8" DIA. PUDDLE WELDS AT 4 PER 36" WIDE SHEET.
   B. PROVIDE 14 GA. MIN. EDGE CLOSURE PIECES, REFER TO DETAILS.
   C. SHEAR STUD CONNECTORS MAY BE SUBSTITUTED FOR WELDS ON A ONE TO ONE BASIS.
   D. CONCRETE FILL THICKNESS SHOWN ON FRAMING PLANS AND DETAIL SHEETS ARE MINIMUM THICKNESS. NO ALLOWANCES HAVE BEEN SHOWN FOR ADDITIONAL CONCRETE FILL REQUIRED TO COMPENSATE FOR BEAM OR DECK DEFLECTIONS AND TO MAINTAIN SURFACE TOLERANCES SPECIFIED.
4. METAL DECK PANELS ARE TO BE THREE-SPAN CONTINUOUS WHERE EVER POSSIBLE.
5. AT COMPOSITE DECK SPANS WHERE BEAM CENTERLINES ARE EQUAL TO OR GREATER THAN 11'-6" - USE 3 SPAN DECK CONDITION ONLY OR PROVIDE SHORING IF LESS THAN 3 SPAN CONDITION IS USED.
6. ALL EDGE FORMS, CLOSURE PLATES, FLASHING ETC. IF NOT NOTED, SHALL BE 16-GAGE MINIMUM CONFORMING TO THE SAME REQUIREMENTS AS THE DECK. SEE METAL DECK DETAILS.
7. MINIMUM BEARING OF DECKING ON SUPPORTS SHALL BE 2".
8. SUPPORT SHALL BE PROVIDED AT ALL EDGES OF OPENINGS IN STEEL DECKS. REFER TO DETAILS.
9. MISCELLANEOUS ITEMS SUCH AS SUSPENDED CEILING SYSTEMS AND LIGHT FIXTURES SHALL NOT BE HUNG DIRECTLY FROM STEEL DECK, EXCEPT USING SPECIFIC METHODS SHOWN IN THE TYPICAL STRUCTURAL DETAILS.

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STRUCTURAL ABBREVIATION KEY

ABBR:	DESCRIPTION:	ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS	KSF	KIPS PER SQUARE FOOT
@	AT	KSI	KIPS PER SQUARE INCH
°	DEGREE	L	LENGTH
ø	DIAMETER	LBS	POUNDS
(E)	EXISTING	LL	LIVE LOAD
A.B.	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECT. -URE, -URAL	LLV	LONG LEG VERTICAL
B.O.	BOTTOM OF	LONG.	LONGITUDINAL
bf	BEAM FLANGE WIDTH	LSH	LONG SIDE HORIZONTAL
BF	BRACE FRAME	LSV	LONG SIDE VERTICAL
BM	BEAM	LT WT	LIGHTWEIGHT
B.N.	BOUNDARY NAILING	MAX.	MAXIMUM
BOTT	BOTTOM	MECH	MECHANICAL
BTWN	BETWEEN	MANUF	MANUFACTURER
CFSF	COLD FORM STEEL FRAMING	MIN	MINIMUM
CGS	CENTER OF GRAVITY OF THE TENDON	NIC	NOT IN CONTRACT
CJP	COMPLETE JOINT PENETRATION WELD	NTS	NOT TO SCALE
CLR	CLEAR	OC	ON CENTER
CL	CENTERLINE	OH	OPPOSITE HAND
CMU	CONCRETE MASONRY UNIT	OPNG	OPENING
COL	COLUMN	OSB	ORIENTED STRAND BOARD
CONC	CONCRETE	PCF	POUNDS PER CUBIC FOOT
CONN	CONNECTION	P.H.	PENTHOUSE
CONST	CONSTRUCTION	PJP	PARTIAL JOINT PENETRATION WELD
CONT	CONTINUOUS	PL	PLATE
COORD	COORDINATION	PLF	POUNDS PER LINEAR FOOT
DIA	DIAMETER	PSF	POUNDS PER SQUARE FOOT
DL	DEAD LOAD	PSI	POUNDS PER SQUARE INCH
DET	DETAIL	PT	POST-TENSION, -ED, -ING
DWG	DRAWING	R	RADIUS
DWL	DOWEL	REINF	REINFORCING, -MENT, -ED
EA	EACH	REQD	REQUIRED
EF	EACH FACE	RTU	ROOF TOP UNIT
EFF	EFFECTIVE	SC	SLIP CRITICAL
EL	ELEVATION	SCHED	SCHEDULE
ELEC	ELECTRICAL	SFRS	SEISMIC FORCE-RESISTING SYSTEM
EMBED	EMBEDMENT	SIM	SIMILAR
E.N.	EDGE NAILING	SL	SNOW LOAD
EOD	EDGE OF DECK	S.M.S.	SHEET METAL SCREW
EOS	EDGE OF SLAB	SP	SPACE(S)
EQ	EQUAL	SPECS	SPECIFICATION(S)
EQUIP	EQUIPMENT	SQ	SQUARE
ETC	ETCETERA	STIFF	STIFFENER
EW	EACH WAY	STL	STEEL
EXP	EXPANSION	SYM	SYMMETRICAL
EXT	EXTERIOR	T&B	TOP AND BOTTOM
f 'c	CONCRETE COMPRESSIVE STRENGTH	T.O.	TOP OF
FDN	FOUNDATION	TC	PRE-TENSIONED BOLT
F.N.	FIELD NAILING	TEMP.	TEMPERATURE
FT	FOOT	tf	BEAM FLANGE THICKNESS
FTG	FOOTING	THK	THICK
Fy	YIELD STRESS	TRANS	TRANSVERSE
GA	GAGE OR GAUGE	TYP	TYPICAL
GALV	GALVANIZED	UON	UNLESS OTHERWISE NOTED
GLB	GLULAM BEAM	VERT	VERTICAL
GT	GIRDER TRUSS	VIF	VERIFY IN FIELD
HORIZ	HORIZONTAL	W/	WITH
HSA	HEADED STUD ANCHOR	WP	WORK POINT
HSB	HIGH STRENGTH BOLT	WT	WEIGHT
JT	JOINT	WWR	WELDED WIRE REINFORCING
K, KIP	KILOPOUND (1,000 POUNDS)		

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SAN BERNARDINO COUNTY
Land Use Services Department
Building & Safety Division

Structural Observation Program
And Designation Of The
Structural Observer

Job Address: 8313 VALLEY BLVD, BLOOMINGTON, CA 92313 Permit No.: ACCRNR-2024-00011
Description of Work:
Owner: Architect: Miller Architecture
Engineer: IMEG Corp

Structural Observation (Only checked items are required)			
Firm or Individual to be responsible for Structural Observation:			
Name:	**Phone: ( )**	**CA Registration:**	
Foundation	**Wall**	**Frame**	**Diaphragm**
☑ Footing, Stem Walls, Piers	☐ Concrete	☑ Steel Moment Frame	☐ Concrete
☐ Mat Foundation	☑ Masonry	☐ Steel Braced Frame	☐ Steel Deck
☑ Caisson, Piles, Grade Beams	☐ Wood	☐ Masonry Wall Frame	☑ Wood
☐ Stepping, Retaining Foundation, Hillside Special Anchors	☑ Other: Cold-form framing	☐ Other:	☐ Other:
☐ Other:			

DECLARATION BY OWNER

I, the Owner of the project, declare that the above listed firm or individual is hired **by me** to be the Structural Observer.

Print Name Signature Date

DECLARATION BY ARCHITECT OR ENGINEER OF RECORD (required if the Structural Observer is different from Architect or Engineer of Record).

I, the Architect or Engineer of Record for the Project, declare that the above listed firm or individual is designated by me to be responsible for the Structural Observation.

Signature License No: Date

REV 05/16

1

CONCRETE/FOUNDATION LEGEND

- XX'-XX" — INDICATES TO SLAB ELEVATION.
- "X" THICK CONCRETE SLAB W/ #X@X"OC EW T&B — INDICATES CONCRETE SLAB AND SPAN DIRECTION, FOR REFERENCE SEE FOUNDATION PLANS
- F# — INDICATES FOOTING MARK, SEE SCHEDULE ON SHEET 1/S-303
- INDICATES CONCRETE WALL ON CONTINUOUS FOOTING.
- INDICATES STEP IN SLAB/FRAMING.
- INDICATES CHANGE IN SLOPE.

STEEL LEGEND

- C# — INDICATES START OF STEEL HSS COLUMN AT FLOOR PLAN LEVEL. FOR COLUMN SIZE, REFER TO COLUMN SCHEDULE ON PLAN.
- XX'-XX" — INDICATES TOP OF STEEL ELEVATION
- INDICATES TYPICAL BOLTED COLLECTOR BEAM CONNECTION. SEE DETAIL 2/S-504
- INDICATES COMPLETE PENETRATION WELDED MOMENT CONNECTION, SEE TYPICAL DETAILS.
- TYPICAL FRAME BRACE DETAIL (FRAME PERPENDICULAR TO BEAM) SEE 3/S-502
- INDICATES BEARING WALL ABOVE
- INDICATES BEARING WALL BELOW. SEE 1/S-700 AND 1/S-702 FOR WALL STUDS AND WALL HEADERS UNO
- SW# (#' - #") — DENOTES METAL STUD WALL WITH SINGLE SIDED PLYWOOD SHEATHING WITH LENGTH, PER SCHEDULE 2/S-706
- SW# (#' - #") — DENOTES METAL STUD WALL WITH DOUBLE SIDED PLYWOOD SHEATHING WITH LENGTH, PER SCHEDULE 2/S-706
- DENOTES METAL STUD SHEAR WALL BELOW
- DENOTES QUANTITY WHERE MORE THAN ONE DRAGS IS REQUIRED
- DENOTES DRAG MARK PER SCHEDULE ON
- (#) # XX'-XX"
- DENOTES REQUIRED DRAG LENGTH

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

REGISTERED PROFESSIONAL ENGINEER CRAIG M. CHAMBERLAIN No. 4588 Exp. 06-30-25 STRUCTURAL STATE OF CALIFORNIA

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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: 1-888-818-0988

PROJECT INFORMATION

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

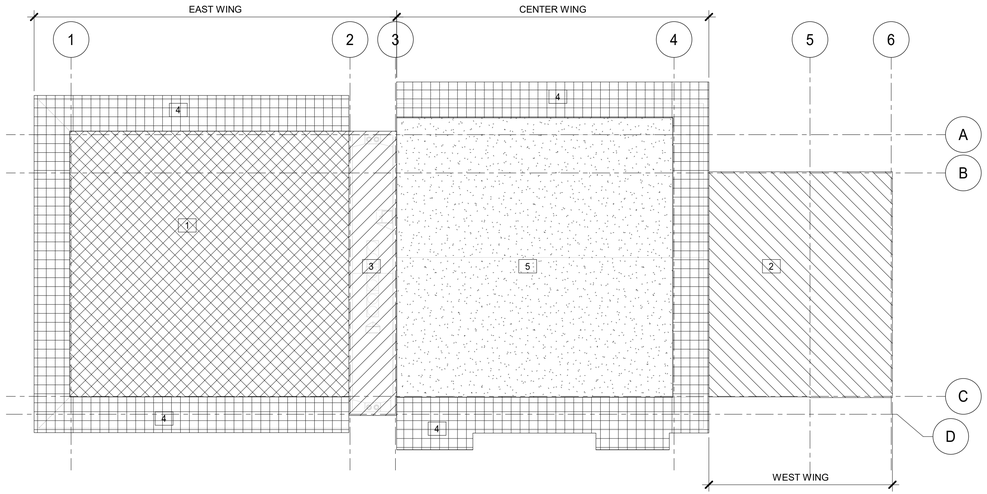
SHEET NAME

GENERAL NOTES

SHEET NUMBER

S-102

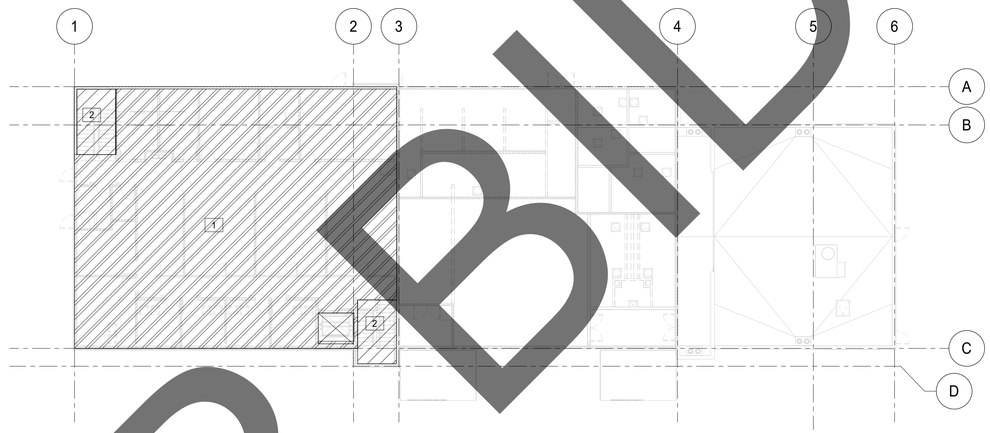
Sheet Of Sheets



SR.NO	LEGEND	OCCUPANCY	DEAD LOAD (PSF)	ROOF LIVE LOAD (PSF)
1		ROOF - TYPICAL - EAST WING	26	20
2		ROOF - TYPICAL - WEST WING	27	20
3		ROOF - MECHANICAL	67	20
4		ROOF - OVERHANG	35	20
5		ROOF - TYPICAL - CENTER WING	22	20

ADMIN BUILDING - ROOF LEVEL LOADING DIAGRAM - DEAD LOAD & ROOF LIVE LOAD

NORTH 1 — 1/16" = 1'-0"



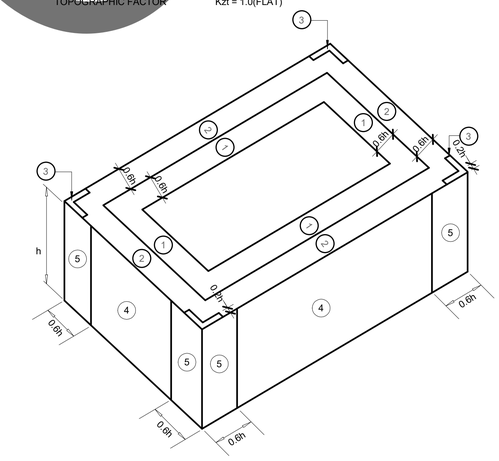
SR.NO	LEGEND	OCCUPANCY	DEAD LOAD (PSF)	FLOOR LIVE LOAD (PSF)
1		FLOOR - TYPICAL	36	65
2		STAIRS	36	100

ADMIN BUILDING - FIRST FLOOR LOADING DIAGRAM - DEAD LOAD & FLOOR LIVE LOAD

NORTH 2 — 1/16" = 1'-0"

WIND LOADING CRITERIA - COMPONENTS & CLADDING:

WIND:
BASIC WIND SPEED — VULT = 120 MPH (1)
IMPORTANCE FACTOR — I = 1.0 (1)
EXPOSURE CLASS — C
INTERNAL PRESSURE COEFFICIENT — +/- 0.55
TOPOGRAPHIC FACTOR — Kzt = 1.0(FLAT)



B = BUILDING WIDTH
L = BUILDING LENGTH
h = BUILDING HEIGHT
Z = HEIGHT ABOVE GROUND

NOTES:

1. WIND PRESSURES GIVEN ARE BASED ON ASSUMED TRIBUTARY AREA AS INDICATED ABOVE. CURTAIN WALL DESIGNER RESPONSIBLE FOR DETERMINING ACTUAL WIND PRESSURE IN ACTUAL EFFECTIVE AREA OF COMPONENT.
2. PRESSURES SHOWN ARE APPLIED NORMAL TO SURFACE. PLUS SIGNS SIGNIFY PRESSURES ACTING TOWARD THE SURFACE. NEGATIVE SIGNS SIGNIFY PRESSURES AWAY FROM SURFACE.
3. WIND PRESSURES SHOWN ARE STRENGTH LEVEL

1

Z (ft)	ROOF PRESSURE - (PSF) FOR 10 SF SURFACE AREA						ROOF PRESSURE - (PSF) FOR 20 SF SURFACE AREA					
	Zone 1		Zone 2		Zone 3		Zone 1		Zone 2		Zone 3	
	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative
0-60	25.5	-67.5	25.5	-85.5	25.5	-112.5	24.6	-63.8	24.6	-80.7	24.6	-103.0
Z (ft)	WALL PRESSURE - (PSF) FOR 10 SF SURFACE AREA				WALL PRESSURE - (PSF) FOR 20 SF SURFACE AREA				WALL PRESSURE - (PSF) FOR 50 SF SURFACE AREA			
	Zone 4		Zone 5		Zone 4		Zone 5		Zone 4		Zone 5	
	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative
0-60	43.5	-46.2	43.5	-54.3	40.2	-42.9	40.2	-47.6	37.3	-40.0	37.3	-41.9
Z (ft)	ROOF OVERHANG - (PSF) FOR 10 SF SURFACE AREA						ROOF OVERHANG - (PSF) FOR 20 SF SURFACE AREA					
	Zone 1		Zone 2		Zone 3		Zone 1		Zone 2		Zone 3	
	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative	Positive	Negative
0-60			69.0	-129.0	69.0	-156.0			64.8	-120.9	64.8	-143.2

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

REGISTERED PROFESSIONAL ENGINEER
CRAIG M. CHAMBERLAIN
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Exp. 06-30-25
STRUCTURAL
STATE OF CALIFORNIA

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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: 1-888-816-9988

PROJECT INFORMATION

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

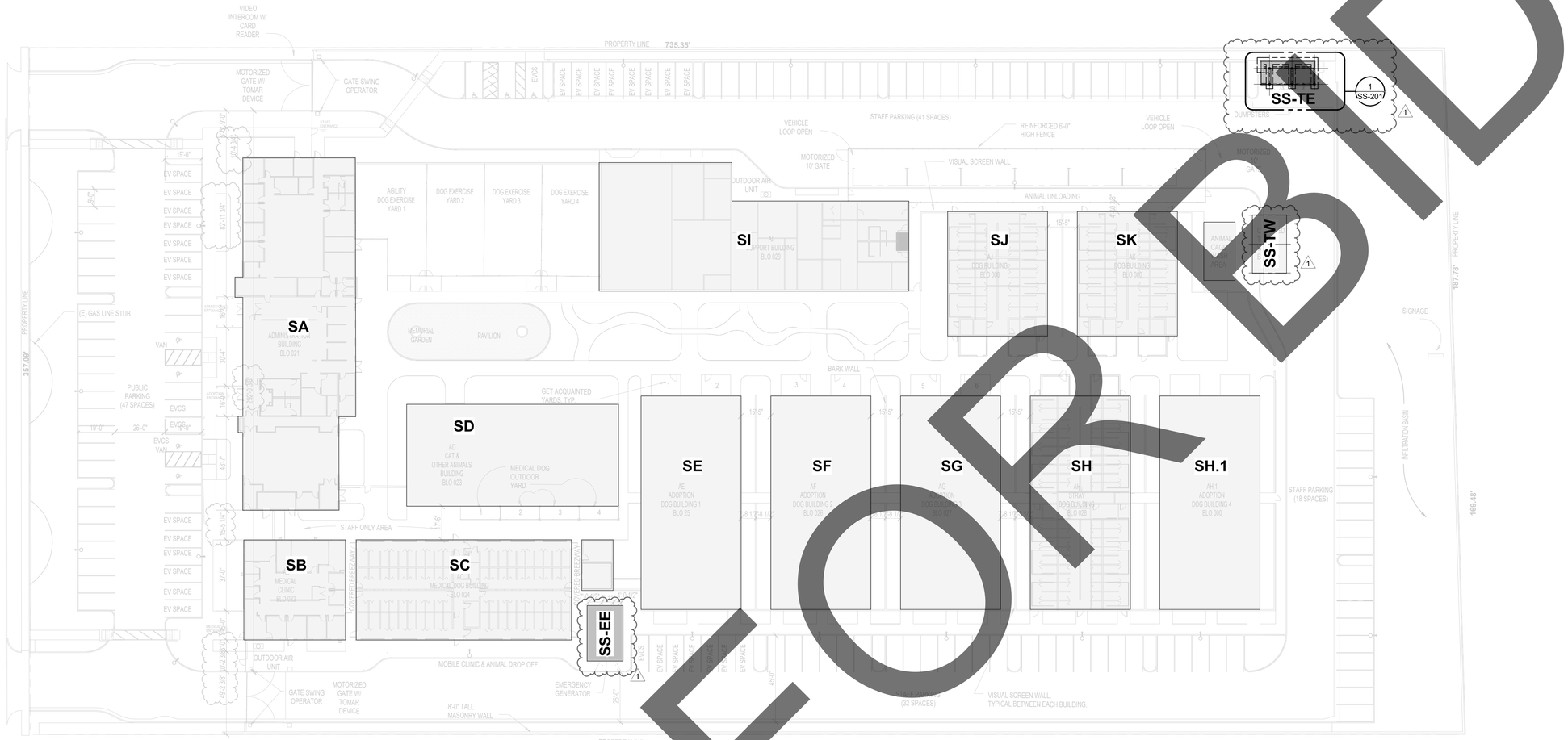
SHEET NAME

LOADING DIAGRAMS

SHEET NUMBER

S-103

Sheet Of Sheets



1 **SITE PLAN**
1" = 30'-0"

NORTH

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REVISIONS/ADDENDA

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

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SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
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PROJECT INFORMATION

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

SHEET NAME

SITE PLAN

SHEET NUMBER

SS-200

Sheet Of Sheets

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PROJECT #22007569.00

REGISTERED PROFESSIONAL ENGINEER
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No. 4588
Exp. 06-30-25
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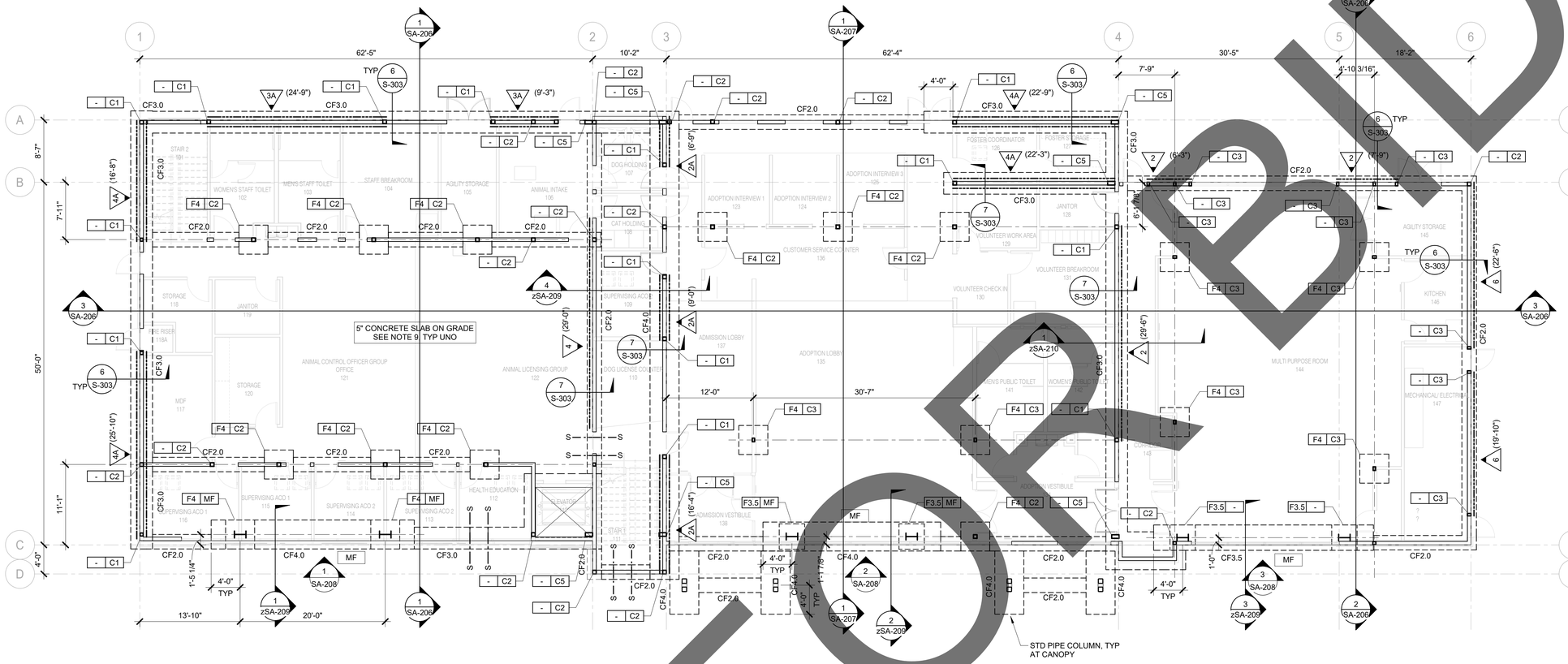
STATE OF CALIFORNIA



1 ADMINISTRATION BUILDING FOUNDATION PLAN - BLDG A

1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. SEE SHEET **S-100** SERIES FOR STRUCTURAL NOTES.
   SEE SHEET **S-300** SERIES FOR TYPICAL CONCRETE DETAILS.
   SEE SHEET **S-500** SERIES FOR TYPICAL STEEL DETAILS.
   SEE SHEET **S-700** SERIES FOR TYPICAL COLD FORM STEEL DETAILS.
2. TOP OF SLAB ON GRADE = 0'-0" UNO
3. TOP OF FOOTING SHALL BE 1'-0" BELOW TOP OF SLAB OR FINISH GRADE, UNO.
4. S.A.D. FOR DIMENSIONS, ELEVATIONS, SLOPES, CURBS, STEPS, AND PADS NOTED ON PLAN.
5. COORDINATE LOCATION OF SLAB STEPS AND DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
6. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
7. ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL.
8. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT,
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT
9. TYPICAL SLAB ON GRADE: 5" THICK W/ #4 AT 18" O.C. EA WAY FOR UNDERLAYMENT SEE 4/S-301
10. DENOTES CONTINUOUS FOOTING. SEE SCHEDULE 1/S-303 FOR FOOTING SIZE AND REINFORCEMENT — WFX
11. S — · — S DENOTES STEPPED FOOTING. SEE DETAIL 5/S-302
12. CONTRACTOR SHALL COORDINATE AND LOCATE ALL DUCT, PIPE, CONDUIT, ETC PENETRATIONS THRU WALLS AND FOOTINGS AND PROVIDE THE ASSOCIATED FRAMING AND FOUNDATION CONDITIONS PER THE TYPICAL DETAILS.
13. DENOTES LOAD BEARING METAL STUD FRAMED WALL PER 1/S-700 AND 1/S-702
14. SW# (# - #") DENOTES METAL STUD SHAR WALL, PER 2/S-706

FOUNDATION PLAN NOTES (CONT)

15. DENOTES NON-LOAD BEARING METAL STUD WALL PER 1/S-702
16. DENOTES HOLDOWN PER 5/S-706 — HD

COLUMN SCHEDULE - BUILDING A

MARK	SIZE
C1	HSS6X6X3/8
C2	HSS6X6X1/4
C3	HSS6X4X1/4
C4	HSS4X4X3/8
C5	HSS12X6X1/2
MF	MOMENT FRAME COLUMN PER ELEVATION

NOTES:

1. REFER TO DETAILS 5/S-301 FOR ANCHOR BOLT AND BASE PLATE INFORMATION, UNO.
2. REFER TO DETAILS 2/S-304 AND 3/S-304 FOR FOOTING INFORMATION AT STEEL COLUMNS, UNO.

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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: 1-888-816-8988

PROJECT INFORMATION

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

SHEET NAME

ADMINISTRATION BUILDING FOUNDATION PLAN

SHEET NUMBER

SA-201

Sheet Of Sheets

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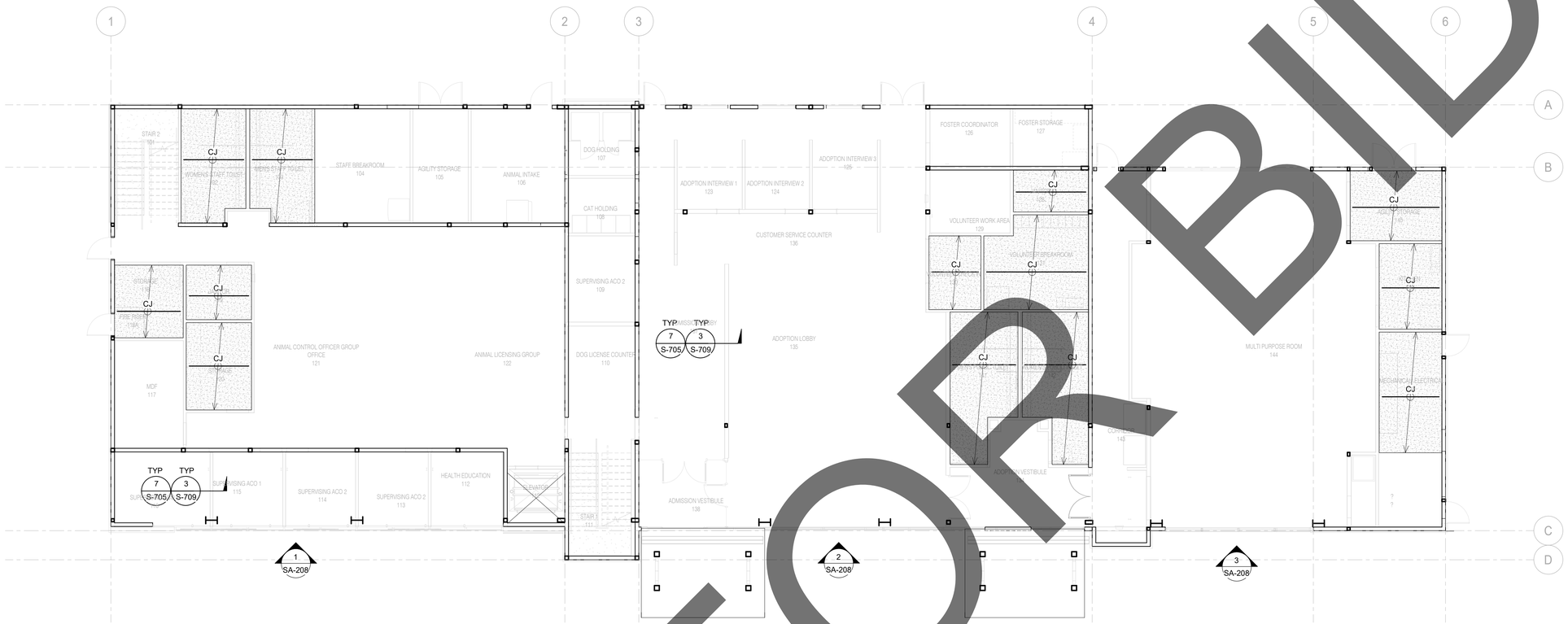
REF. SCALE IN INCHES PROJECT #22007569.00

REGISTERED PROFESSIONAL ENGINEER — CRAIG M. CHAMBERLAIN — No. 4588 — Exp. 06-30-25 — STRUCTURAL — STATE OF CALIFORNIA



1 ADMINISTRATION BUILDING SECOND FLOOR CEILING PLAN - BLDG A

1/8" = 1'-0"

NORTH

CEILING PLAN NOTES

1. SEE SHEET S-100 SERIES FOR STRUCTURAL NOTES. SEE SHEET S-704 SERIES FOR TYPICAL CEILING DETAILS.
2. ALL DIMENSIONAL INFORMATION SHOWN IS BASED ON THE ARCHITECTURAL DRAWINGS. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN REFER TO THE ARCHITECTURAL DRAWINGS.
3. MECHANICAL ACCESS W/3/4" PLYWOOD OVER CHEILING JOISTS - SEE ARCHITECTURAL DRAWINGS FOR EXTENT

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

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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

ADMINISTRATION BUILDING SECOND FLOOR CEILING PLAN

SHEET NUMBER

SA-202

Sheet Of Sheets

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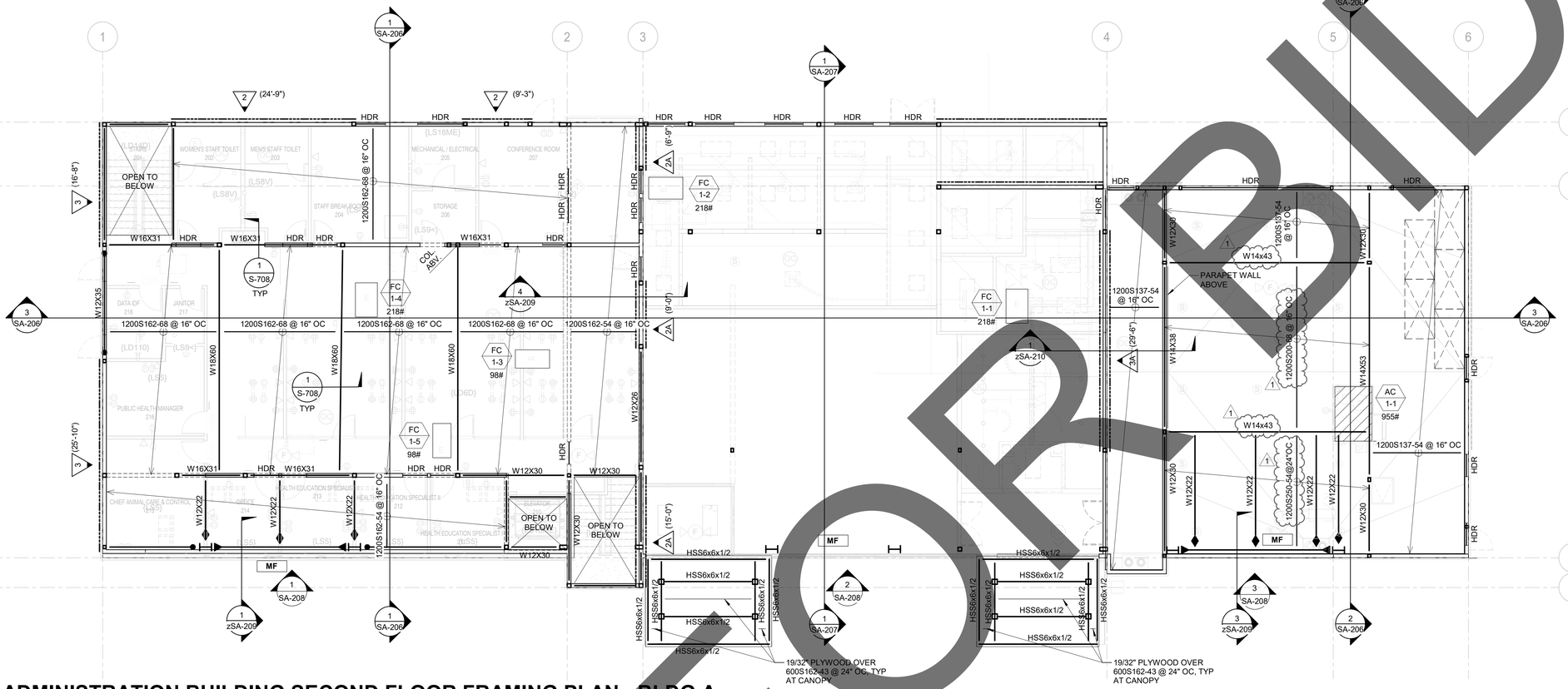
REF. SCALE IN INCHES 0 1 2 3

PROJECT #22007569.00

REGISTERED PROFESSIONAL ENGINEER
CRAIG M. CHAMBERLAIN
No. 4588
Exp. 06-30-25
STRUCTURAL
STATE OF CALIFORNIA



1 ADMINISTRATION BUILDING SECOND FLOOR FRAMING PLAN - BLDG A

1/8" = 1'-0"

NORTH

ROOF PLAN NOTES

1. SEE SHEET **S-XXX** SERIES FOR STRUCTURAL NOTES.
   SEE SHEET **S-XXX** SERIES FOR TYPICAL DETAILS.
2. ALL DIMENSIONAL INFORMATION SHOWN IS BASED ON THE ARCHITECTURAL DRAWINGS. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN REFER TO THE ARCHITECTURAL DRAWINGS.
3. BEAM TO BE EQUALLY SPACED BETWEEN SUPPORTS UNO.
4. FOR COLUMN SIZES, SEE FOUNDATION PLAN.
5. XX / XX / XXX# — DENOTES MECHANICAL UNIT PER MEP DWGS; DENOTES UNIT MAX OPER WT W/ CURB AND ALL ATTACHMENTS INCLUDED
6. DENOTES METAL STUD SHEAR WALL BELOW

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REVISIONS/ADDENDA

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1	06/12/24	PLAN CHECK RESUBMITTAL

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385 N. ARROWHEAD AVENUE
SAN BERNARDINO, CA 92415
PHONE: 1-888-816-8988

PROJECT INFORMATION

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

SHEET NAME

ADMINISTRATION BUILDING SECOND FLOOR FRAMING PLAN

SHEET NUMBER

SA-203

Sheet Of Sheets

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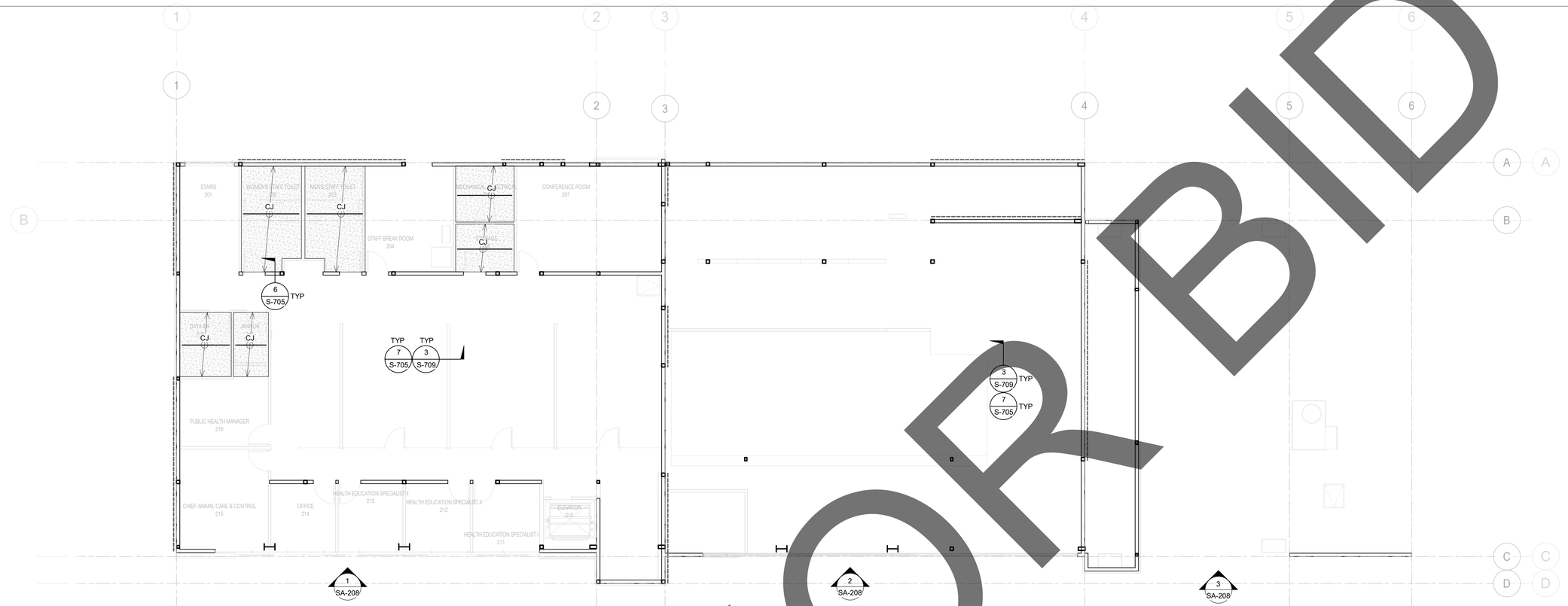
PROJECT #22007569.00

REGISTERED PROFESSIONAL ENGINEER CRAIG M. CHAMBERLAIN No. 4588 Exp. 06-30-25 STRUCTURAL STATE OF CALIFORNIA



1 ADMINISTRATION BUILDING ROOF CEILING PLAN - BLDG A

1/8" = 1'-0"

NORTH

CEILING PLAN NOTES

1. SEE SHEET S-100 SERIES FOR STRUCTURAL NOTES. SEE SHEET S-704 SERIES FOR TYPICAL CEILING DETAILS.
2. ALL DIMENSIONAL INFORMATION SHOWN IS BASED ON THE ARCHITECTURAL DRAWINGS. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN REFER TO THE ARCHITECTURAL DRAWINGS.
3. MECHANICAL ACCESS W/3/4" PLYWOOD OVER CHEILING JOISTS - SEE ARCHITECTURAL DRAWINGS FOR EXTENT

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ANIMAL CARE CENTER
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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

ADMINISTRATION BUILDING ROOF CEILING PLAN

SHEET NUMBER

SA-204

Sheet Of Sheets

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

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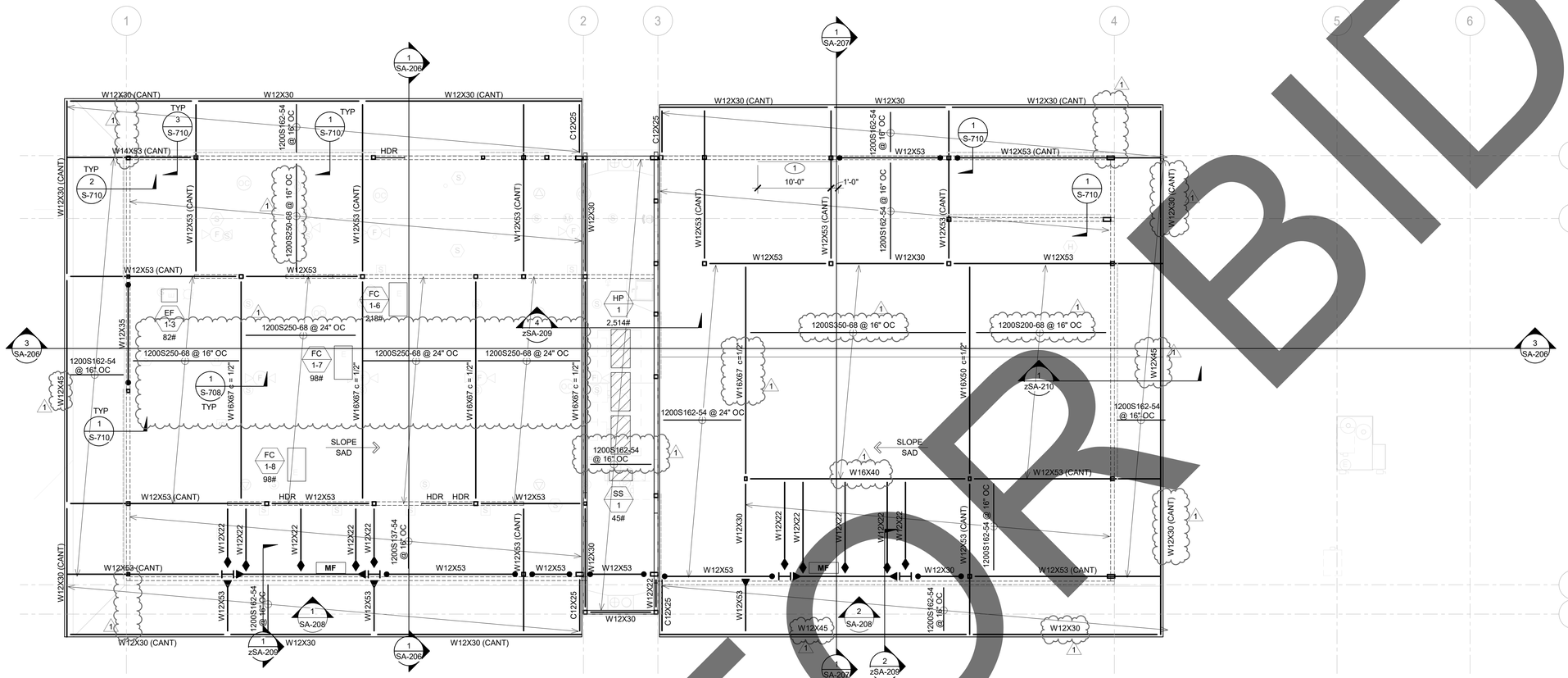
No. 4588
Exp. 06-30-25
STRUCTURAL
STATE OF CALIFORNIA



1 ADMINISTRATION BUILDING ROOF FRAMING PLAN - BLDG A

1/8" = 1'-0"

NORTH

ROOF PLAN NOTES

1. SEE SHEET **S-XXX** SERIES FOR STRUCTURAL NOTES.
   SEE SHEET **S-XXX** SERIES FOR TYPICAL DETAILS.
2. ALL DIMENSIONAL INFORMATION SHOWN IS BASED ON THE ARCHITECTURAL DRAWINGS. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN REFER TO THE ARCHITECTURAL DRAWINGS.
3. BEAM TO BE EQUALLY SPACED BETWEEN SUPPORTS UNO.
4. FOR COLUMN SIZES, SEE FOUNDATION PLAN.
5. XX / XX / XXX# — DENOTES MECHANICAL UNIT PER MEP DWGS; DENOTES UNIT MAX OPER WT W/ CURB AND ALL ATTACHMENTS INCLUDED
6. DENOTES METAL STUD SHEAR WALL BELOW

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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: 1-888-818-8988

PROJECT INFORMATION

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

SHEET NAME

ADMINISTRATION BUILDING ROOF FRAMING PLAN

SHEET NUMBER

SA-205

Sheet Of Sheets

IMEG
555 S. FLOWER STREET
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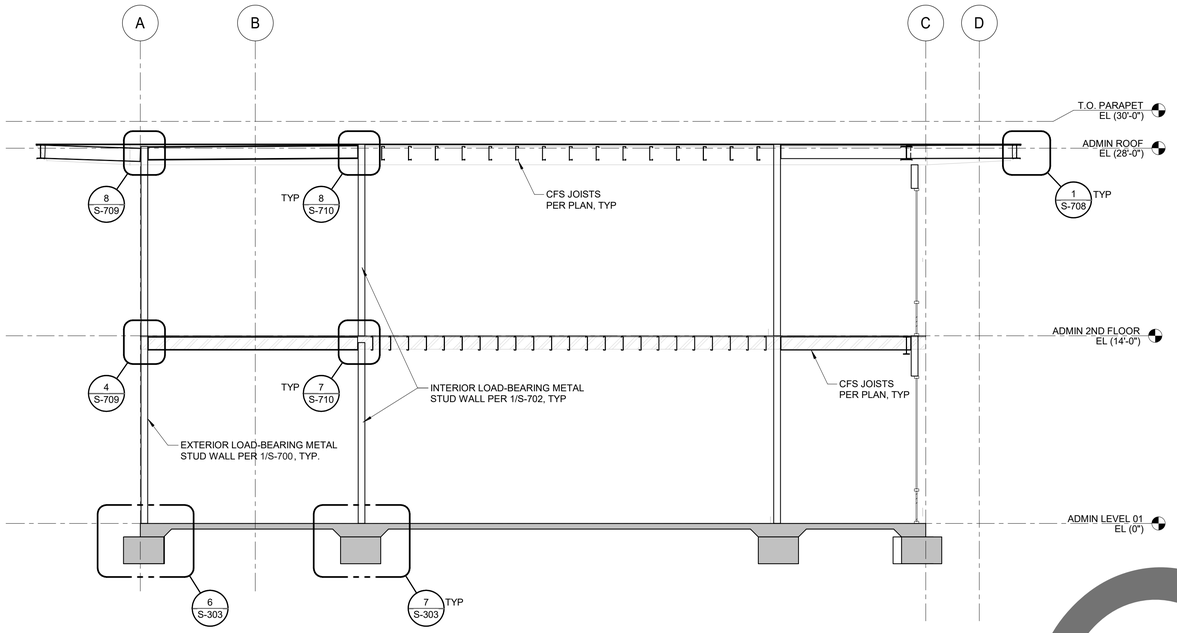
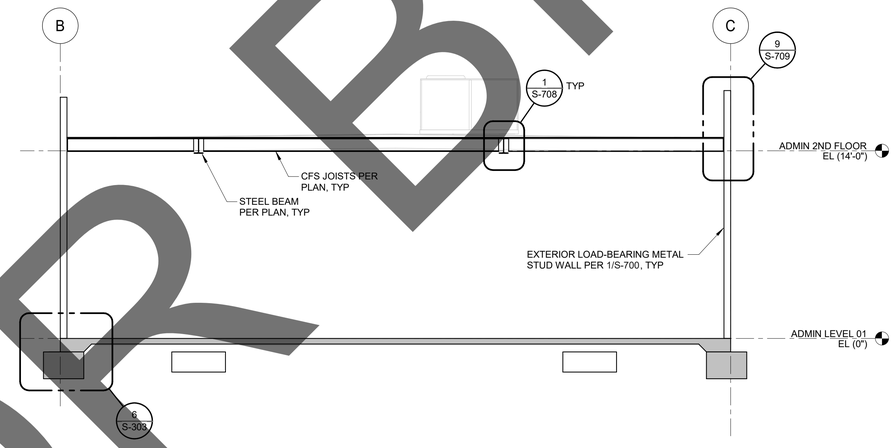
REF. SCALE IN INCHES 0 1 2 3 — PROJECT #22007569.00

REGISTERED PROFESSIONAL ENGINEER CRAIG M. CHAMBERLAIN No. 4588 Exp. 06-30-25 STRUCTURAL STATE OF CALIFORNIA



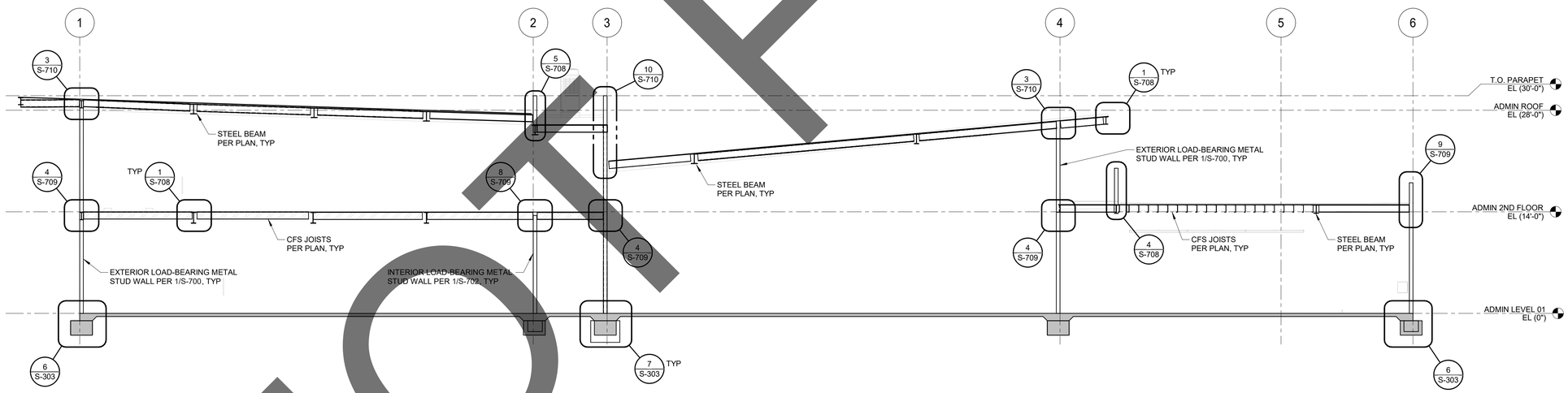
1 ADMINISTRATION BUILDING - EAST WING SECTION

3/16" = 1'-0"



2 ADMINISTRATION BUILDING - WEST WING SECTION

3/16" = 1'-0"



3 ADMINISTRATION BUILDING - EAST WING SECTION

1/8" = 1'-0"

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SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
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PROJECT INFORMATION

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

SHEET NAME

ADMINISTRATION BUILDING SECTIONS

SHEET NUMBER

SA-206

Sheet Of Sheets

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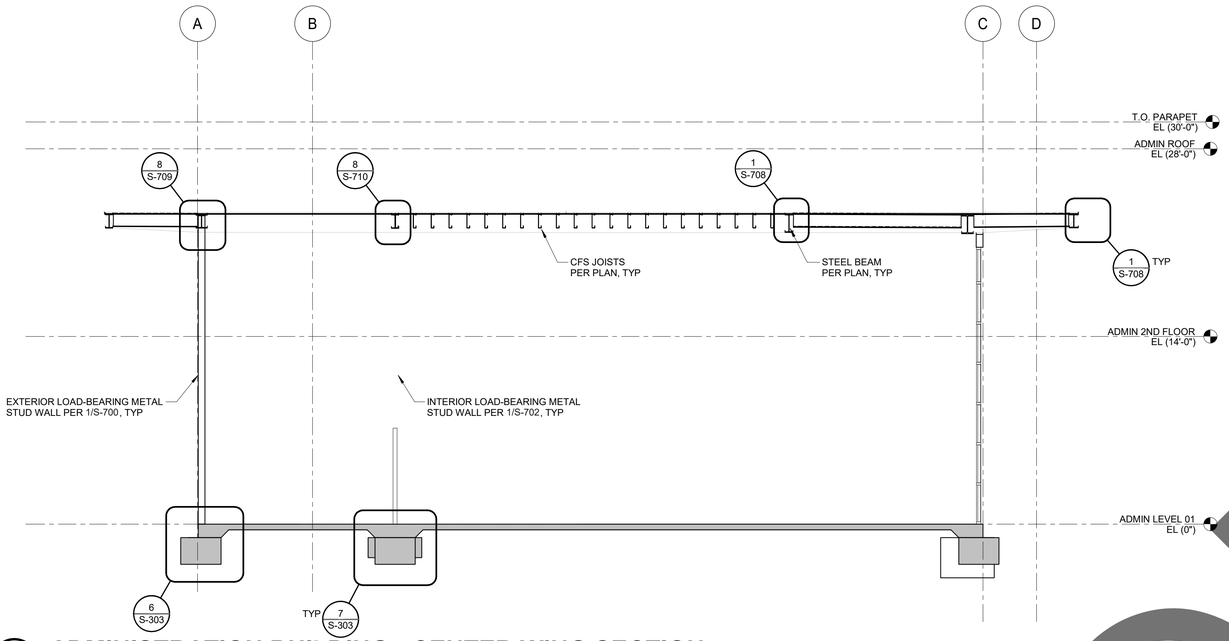
PROJECT #22007569.00

REGISTERED PROFESSIONAL ENGINEER
CRAIG M. CHAMBERLAIN
No. 4588
Exp. 06-30-25
STRUCTURAL
STATE OF CALIFORNIA



1 ADMINISTRATION BUILDING - CENTER WING SECTION

3/16" = 1'-0"

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1	06/12/24	PLAN CHECK RESUBMITTAL

ANIMAL CARE CENTER
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PROJECT INFORMATION

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

SHEET NAME

ADMINISTRATION BUILDING SECTIONS

SHEET NUMBER

SA-207

Sheet Of Sheets

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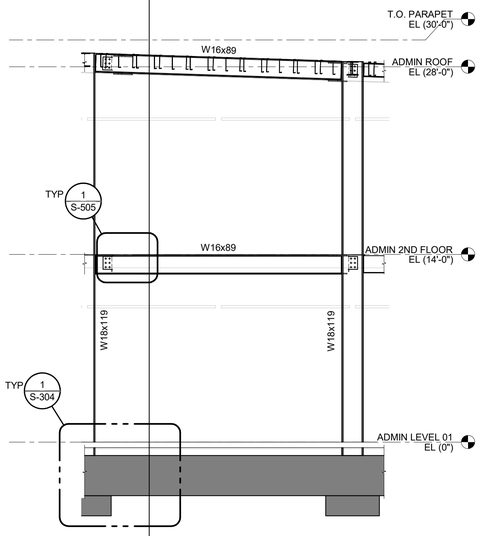
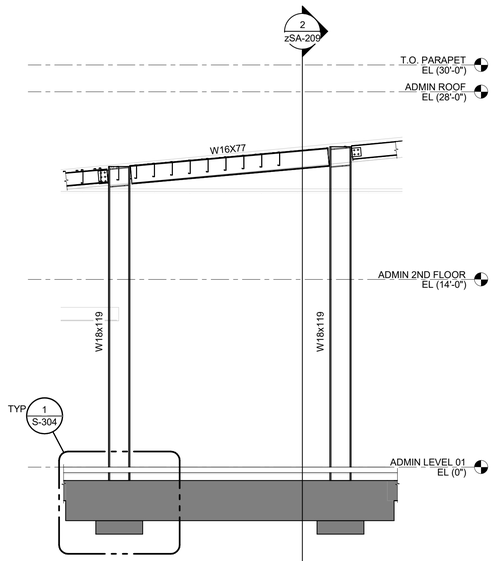
STATE OF CALIFORNIA



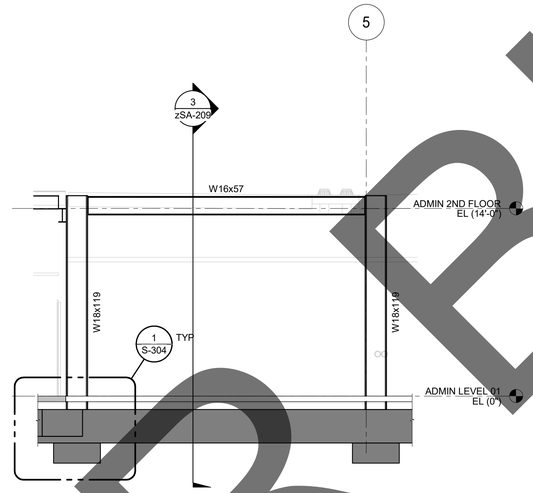
1 ADMINISTRATION BUILDING - MOMENT FRAME ELEVATION

3/16" = 1'-0"



2 ADMINISTRATION BUILDING - MOMENT FRAME ELEVATION

3/16" = 1'-0"



3 ADMINISTRATION BUILDING - MOMENT FRAME ELEVATION

3/16" = 1'-0"

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REVISIONS/ADDENDA

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SHEET NAME

ADMINISTRATION BUILDING MOMENT FRAME ELEVATIONS

SHEET NUMBER

SA-208

Sheet Of Sheets

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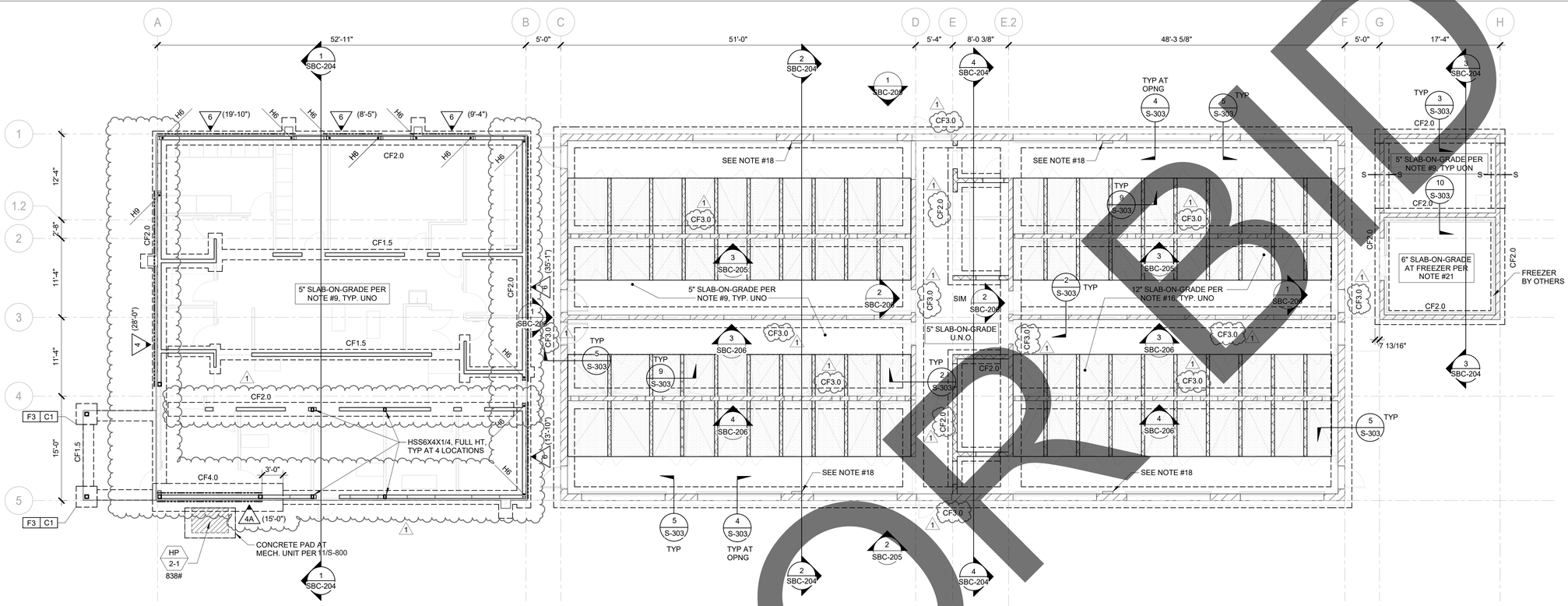
STATE OF CALIFORNIA



1 MEDICAL CLINIC FOUNDATION PLAN - BLDG B/C

1/8" = 1'-0"

NORTH

FOUNDATION PLAN NOTES

1. SEE SHEET S-100 SERIES FOR STRUCTURAL NOTES.
   SEE SHEET S-300 SERIES FOR TYPICAL CONCRETE DETAILS.
   SEE SHEET S-400 SERIES FOR TYPICAL CMU DETAILS
   SEE SHEET S-500 SERIES FOR TYPICAL STEEL DETAILS.
   SEE SHEET S-700 SERIES FOR TYPICAL COLD FORM STEEL DETAILS.
2. TOP OF SLAB ON GRADE = 0'-0" UNO
3. TOP OF FOOTING SHALL BE 1'-0" BELOW TOP OF SLAB OR FINISH GRADE, TYP, UNO.
   TOP OF FOOTING SHALL BE 1'-4" BELOW TOP OF SLAB OR FINISH GRADE, TYP.
   AT EXTERIOR CMU WALLS, UNO.
4. S.A.D. FOR DIMENSIONS, ELEVATIONS, SLOPES, CURBS, STEPS, AND PADS NOTED ON PLAN.
5. COORDINATE LOCATION OF SLAB STEPS AND DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
6. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
7. ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL.
8. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT,
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT
9. TYPICAL SLAB ON GRADE: 5" THICK W/ #4 AT 18" O.C. EA WAY FOR UNDERLAYMENT SEE 4/S-301
10. DENOTES CONTINUOUS FOOTING. SEE SCHEDULE 1/S-303 FOR FOOTING SIZE AND REINFORCEMENT (WFX)
11. DENOTES STEPPED FOOTING. SEE DETAIL 5/S-302
12. CONTRACTOR SHALL COORDINATE AND LOCATE ALL DUCT, PIPE, CONDUIT, ETC PENETRATIONS THRU WALLS AND FOOTINGS AND PROVIDE THE ASSOCIATED FRAMING AND FOUNDATION CONDITIONS PER THE TYPICAL DETAILS.
13. DENOTES LOAD BEARING METAL STUD FRAMED WALL PER 1/S-700 AND 1/S-702
14. DENOTED FULL HEIGHT CMU WALL
15. (SW# (#' - #")) DENOTES METAL STUD SHAR WALL PER 2/S-706
16. SLAB ON GRADE: 12" THICK W/ #5 AT 12" OC EA WAY TOP AND BOTTOM - SEE X/S-XXX

FOUNDATION PLAN NOTES (CONT)

17. DENOTES NON-LOAD BEARING METAL STUD WALL PER 1/S-702
18. FACE MOUNTED CONTROL PANEL AND PIPING - SEE PLUMBING DRAWINGS.
19. DENOTES HOLDOWN PER 5/S-706 (H6)
20. DENOTES PARTIAL HEIGHT CMU WALL
21. SLAB ON GRADE: 6" THICK W/ #4 @ 12" OC EA. WAY FOR UNDERLAYMENT SEE 4/S-301

COLUMN SCHEDULE - BUILDING B-C

MARK	SIZE
C1	HSS6X6X3/8
C2	HSS6X4X1/4

NOTES:

1. REFER TO DETAILS 5/S-301 FOR ANCHOR BOLT AND BASE PLATE INFORMATION, UNO.
2. REFER TO DETAILS 2/S-304 AND 3/S-304 FOR FOOTING INFORMATION AT STEEL COLUMNS, UNO.

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1	06/12/24	PLAN CHECK RESUBMITTAL

ANIMAL CARE CENTER
18313 VALLEY BLVD. BLOOMINGTON, CA 92313

SAN BERNARDINO COUNTY
385 N. ARROWHEAD AVENUE
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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

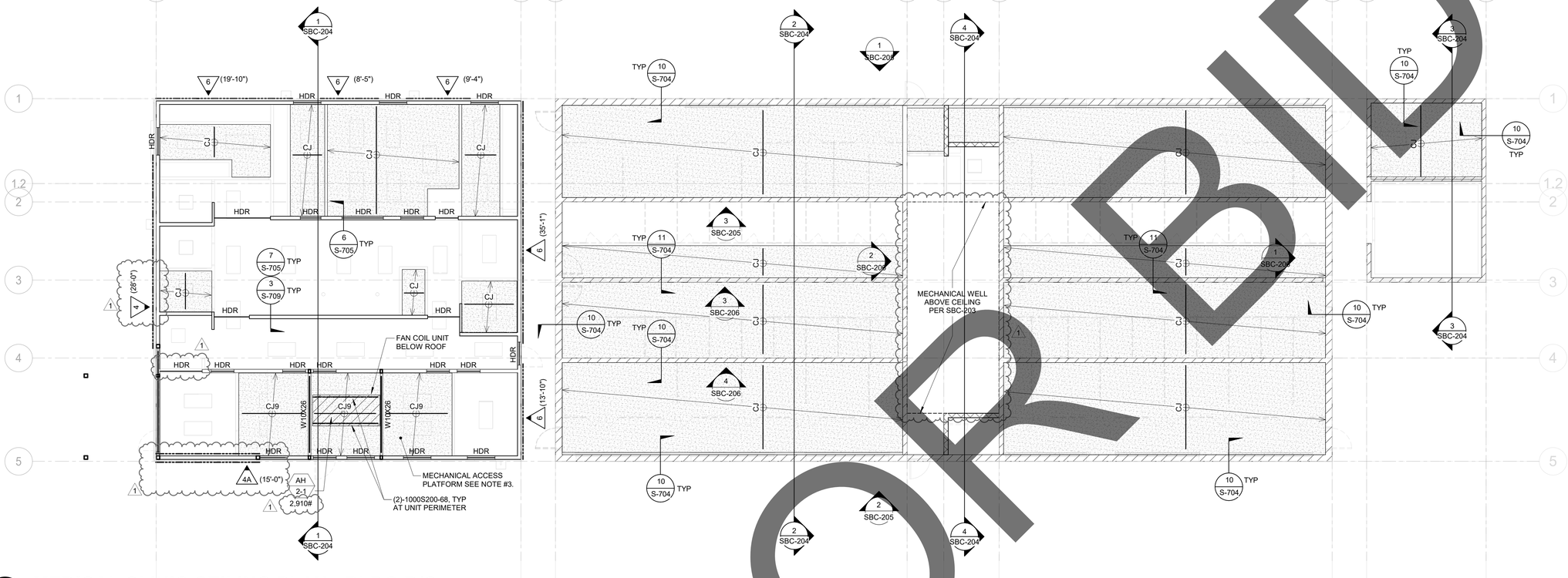
SHEET NAME

MEDICAL CLINIC FOUNDATION PLAN

SHEET NUMBER

SBC-201

Sheet Of Sheets



2 MEDICAL CLINIC CEILING PLAN - BLDG B/C

1/8" = 1'-0"

NORTH

CEILING PLAN NOTES

1. SEE SHEET S-100 SERIES FOR STRUCTURAL NOTES. SEE SHEET S-704 SERIES FOR TYPICAL CEILING DETAILS.
2. ALL DIMENSIONAL INFORMATION SHOWN IS BASED ON THE ARCHITECTURAL DRAWINGS. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN REFER TO THE ARCHITECTURAL DRAWINGS.
3. MECHANICAL ACCESS W/3/4" PLYWOOD OVER CHEILING JOISTS - SEE ARCHITECTURAL DRAWINGS FOR EXTENT

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Drawn By:	HYK
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SHEET NAME

MEDICAL CLINIC CEILING PLAN

SHEET NUMBER

SBC-202

Sheet Of Sheets

IMEG
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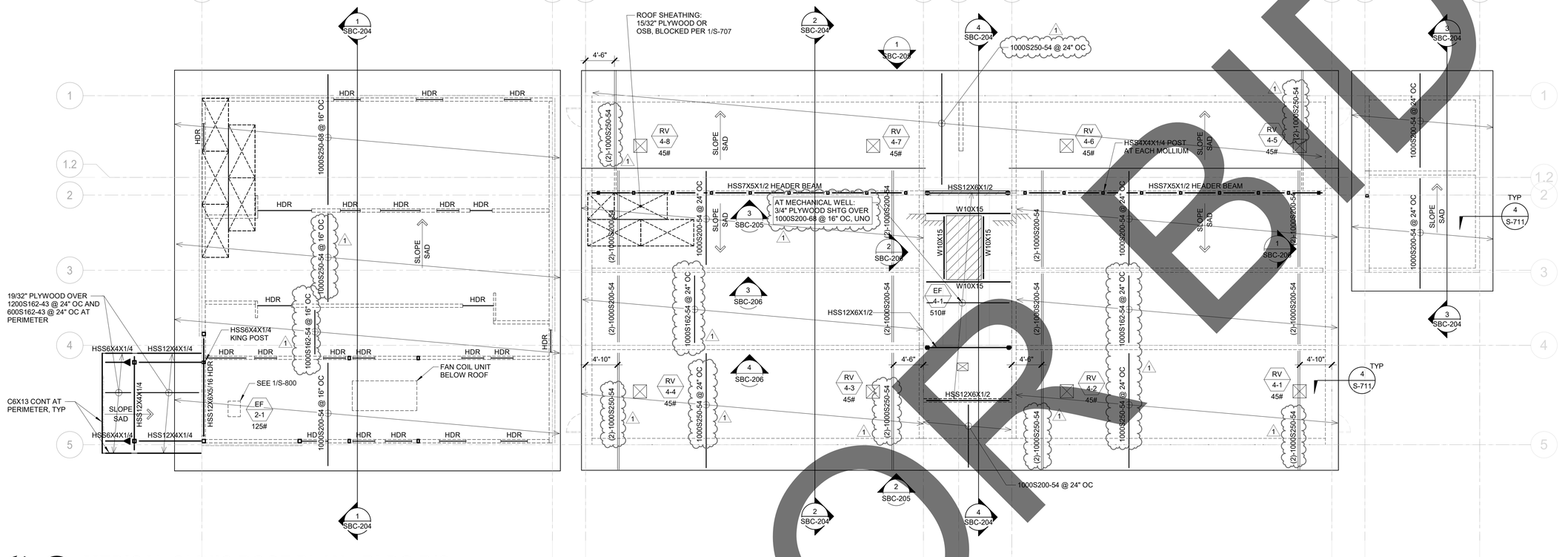
PROJECT #22007569.00

REGISTERED PROFESSIONAL ENGINEER CRAIG M. CHAMBERLAIN No. 4588 Exp. 06-30-25 STRUCTURAL STATE OF CALIFORNIA



1 MEDICAL CLINIC ROOF PLAN - BLDG B/C

1/8" = 1'-0"

NORTH

ROOF PLAN NOTES

1. SEE SHEET **S-100** SERIES FOR STRUCTURAL NOTES.
   SEE SHEET **S-700** SERIES FOR TYPICAL DETAILS.
2. ALL DIMENSIONAL INFORMATION SHOWN IS BASED ON THE ARCHITECTURAL DRAWINGS. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN REFER TO THE ARCHITECTURAL DRAWINGS.
4. XX / XX — DENOTES MECHANICAL UNIT PER MEP DWGS
   XXX# — DENOTES UNIT MAX OPER WT W/ CURB AND ALL ATTACHMENTS INCLUDED
5. DENOTES METAL STUD SHEAR WALL BELOW
6. ALIGN ROOF JOISTS WITH CF WALL STUDS PER DETAIL 3/S-700

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SHEET NAME

MEDICAL CLINIC ROOF PLAN

SHEET NUMBER

SBC-203

Sheet Of Sheets

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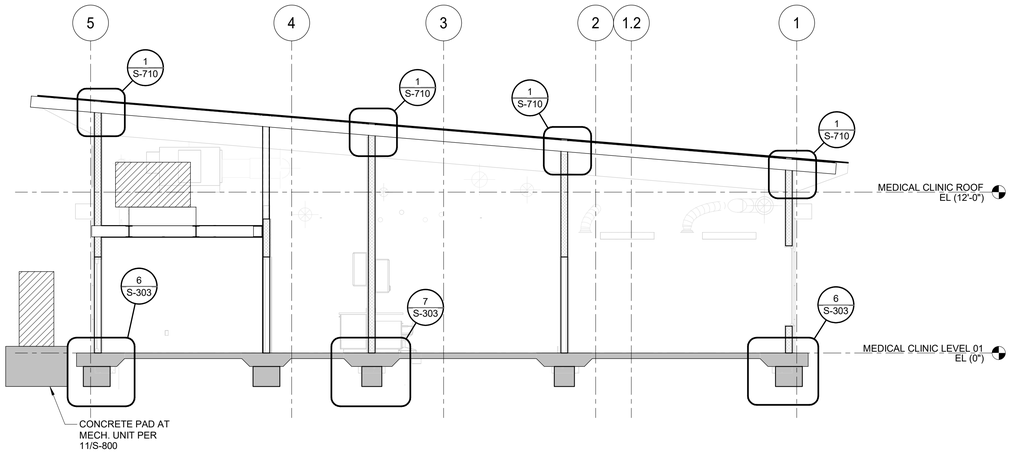
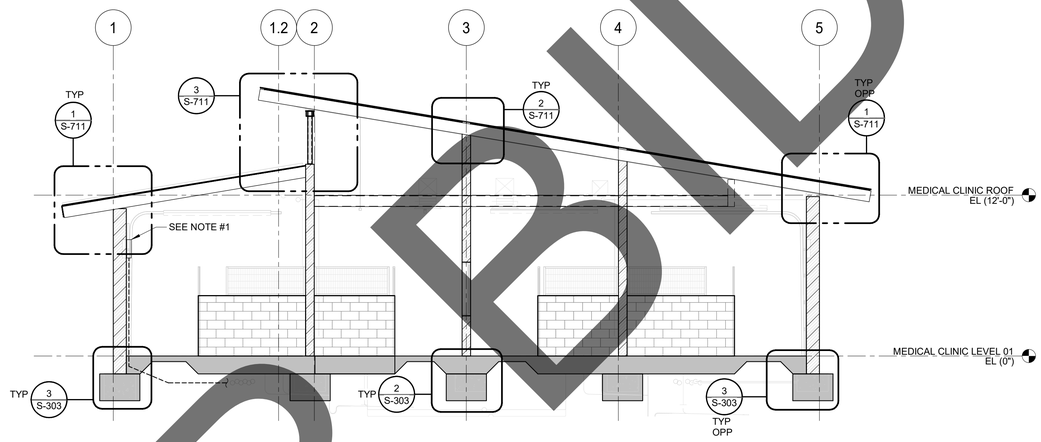


1 MEDICAL CLINIC BUILDING SECTION

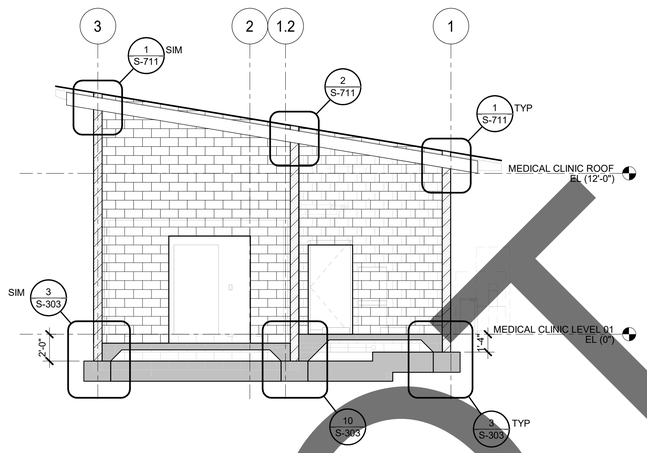
3/16" = 1'-0"



NOTES:
1. FACE MOUNTED CONTROL PANEL AND PIPING PER PLAN - SEE PLUMBING DRAWINGS FOR LOCATION.

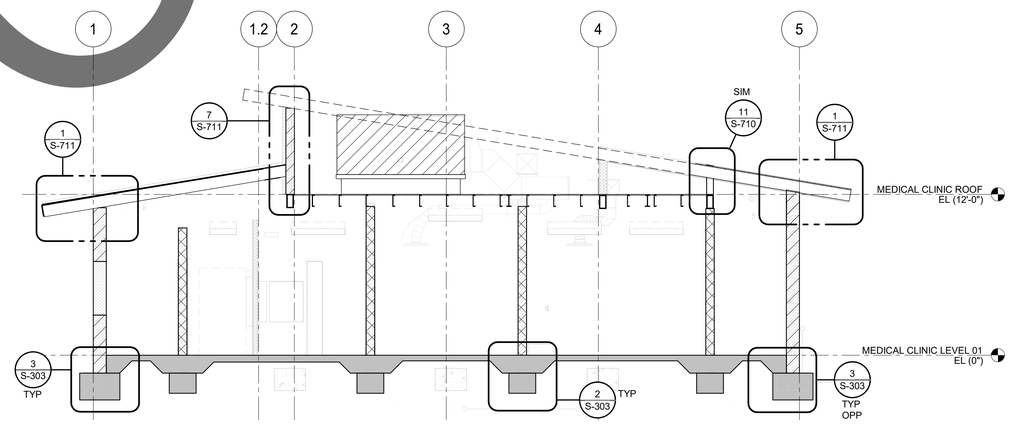
2 DOG CLINIC BUILDING SECTION

3/16" = 1'-0"



3 EUTHANASIA/FREEZER BUILDING SECTION

3/16" = 1'-0"



4 DOG CLINIC BUILDING SECTION

3/16" = 1'-0"

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SAN BERNARDINO COUNTY
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SAN BERNARDINO, CA 92415
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PROJECT INFORMATION

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

SHEET NAME

MEDICAL CLINIC BUILDING SECTIONS

SHEET NUMBER

SBC-204

Sheet Of Sheets

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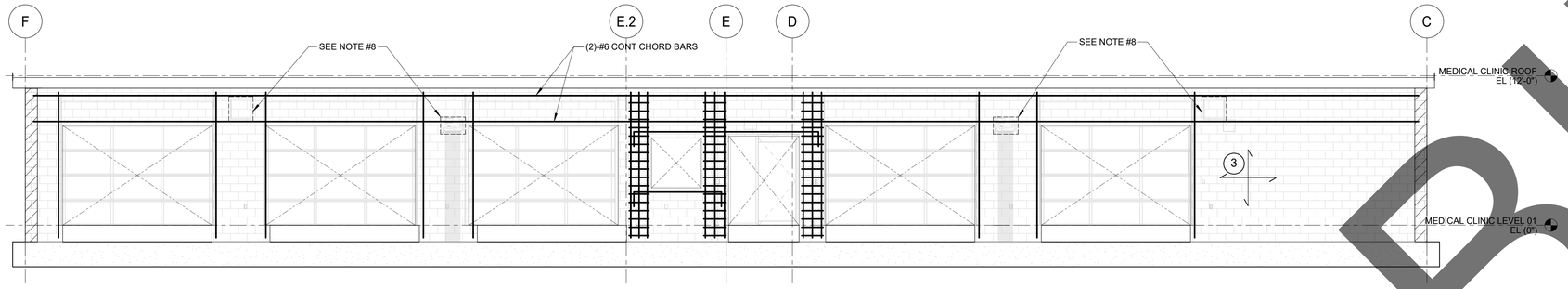
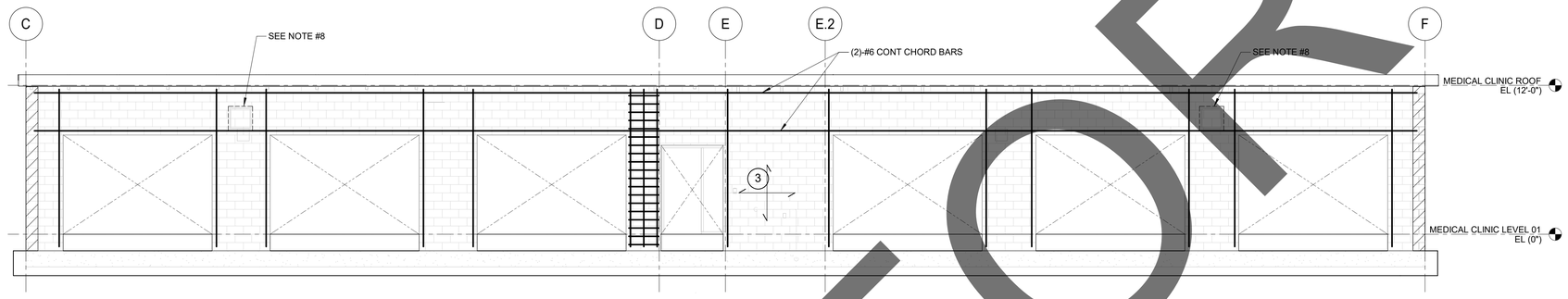


1 DOG CLINIC EXTERIOR WALL ELEVATION - GL "1" - 12" THICK CMU

3/16" = 1'-0"

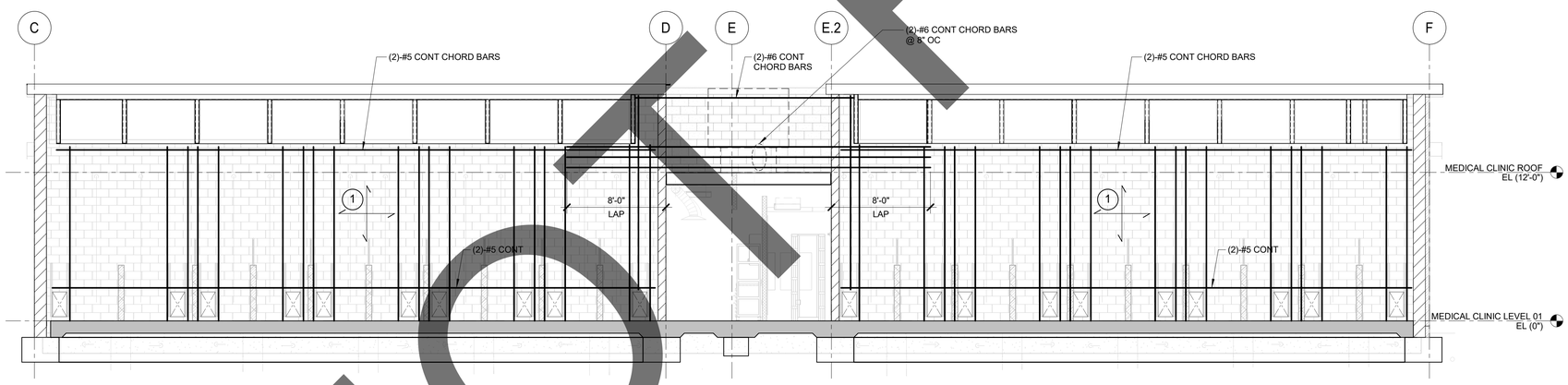
NOTES:

1. 1 — DENOTES: #5 @ 16" O.C.(V) (CENTER) 8" CMU #4 @ 24" O.C. (H) (CENTER)
2. 2 — DENOTES: #5 @ 16" O.C.(V) (CENTER) 8" CMU #5 @ 24" O.C. (H) (CENTER)
3. 3 — DENOTES: #5 @ 8" O.C.(V) EACH FACE 12" CMU #5 @ 16" O.C. (H) EACH FACE
4. FOR TYPICAL CMU DETAILS SEE S5.0 AND S5.1
5. FOR TYPICAL REINFORCEMENT AT OPENING SEE 1/S-400
6. PROVIDE DOWELS FOR VERTICAL REINFORCEMENT SEE FOUNDATION DETAILS ON SHEET S-303
7. STEEL FRAMING NOT SHOWN FOR CLARITY. SEE FRAMING PLANS - TYPICAL
8. FACE MOUNTED CONTROL PANEL AND PIPING SEE PLUMBING DRAWINGS



2 DOG CLINIC EXTERIOR WALL ELEVATION - GL "5" - 12" THICK CMU

3/16" = 1'-0"



3 DOG CLINIC EXTERIOR WALL ELEVATION - GL "2" - 8" THICK CMU

3/16" = 1'-0"

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SHEET NAME

MEDICAL CLINIC WALL ELEVATIONS

SHEET NUMBER

SBC-205

Sheet Of Sheets

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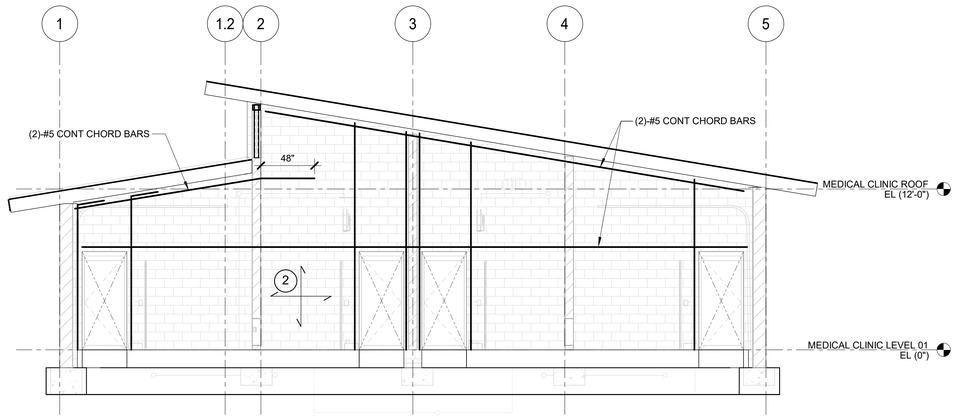
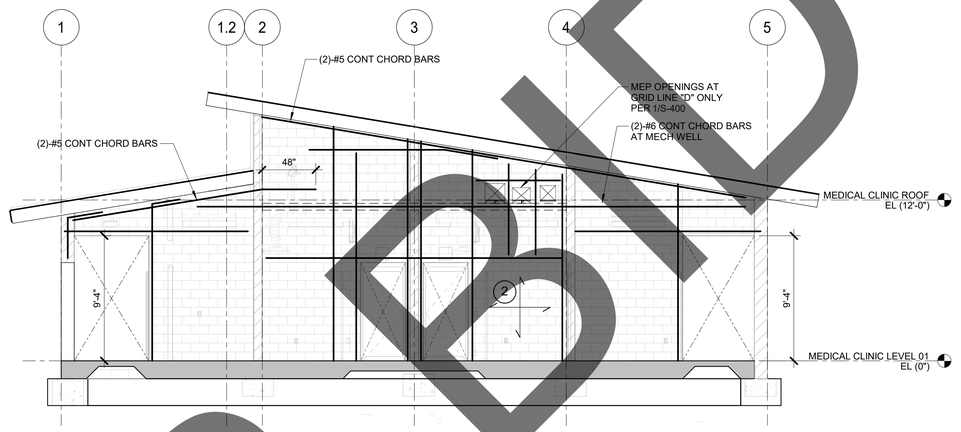


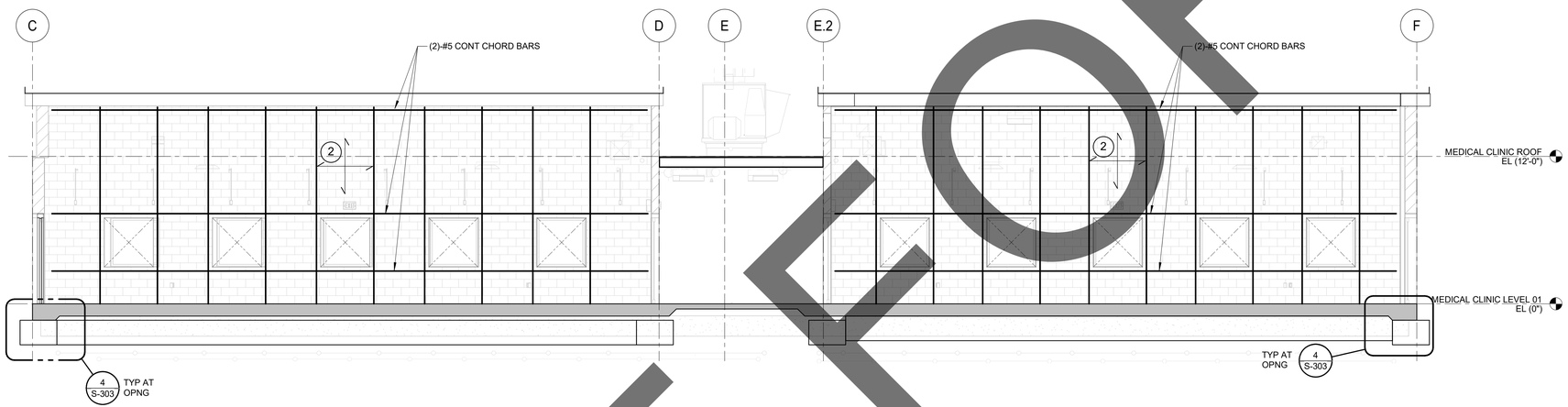
1 DOG CLINIC EXTERIOR WALL ELEVATION - GL "C" AND "F" - 12" THICK CMU

3/16" = 1'-0"



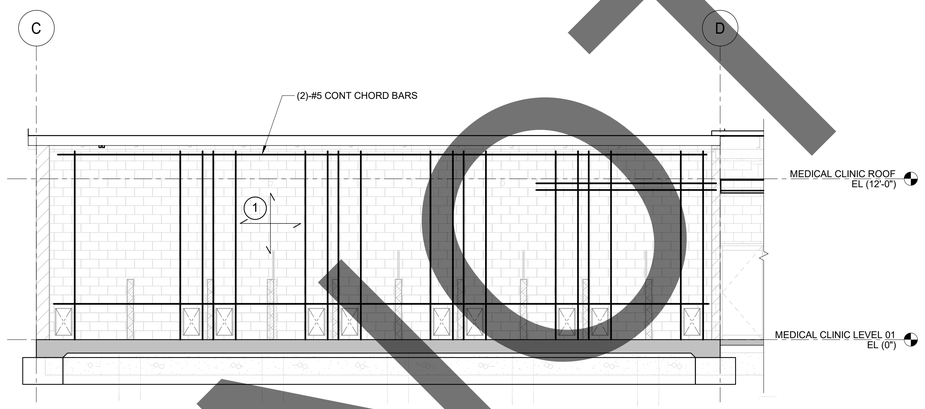
2 DOG CLINIC EXTERIOR WALL ELEVATION - GL "D" AND "E.2" - 8" THICK CMU

3/16" = 1'-0"



3 DOG CLINIC INTERIOR WALL ELEVATION - GL "3" - 8" THICK CMU

3/16" = 1'-0"



4 DOG CLINIC INTERIOR WALL ELEVATION - GL "4" - 8" THICK CMU

3/16" = 1'-0"

NOTES:

1. (1) DENOTES: #5 @ 16" O.C.(V) (CENTER)
   8" CMU #4 @ 24" O.C. (H) (CENTER)
2. (2) DENOTES: #5 @ 16" O.C.(V) (CENTER)
   8" CMU #5 @ 24" O.C. (H) (CENTER)
3. (3) DENOTES: #5 @ 8" O.C.(V) EACH FACE
   12" CMU #5 @ 16" O.C. (H) EACH FACE
4. FOR TYPICAL CMU DETAILS SEE S5.0 AND S5.1
5. FOR TYPICAL REINFORCEMENT AT OPENING SEE 1/S-400
6. PROVIDE DOWELS FOR VERTICAL REINFORCEMENT SEE FOUNDATION DETAILS ON SHEET S-303
7. STEEL FRAMING NOT SHOWN FOR CLARITY. SEE FRAMING PLANS - TYPICAL
8. FACE MOUNTED CONTROL PANEL AND PIPING SEE PLUMBING DRAWINGS

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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: 1-886-810-8988

PROJECT INFORMATION

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

SHEET NAME

MEDICAL CLINIC WALL ELEVATIONS

SHEET NUMBER

SBC-206

Sheet Of Sheets

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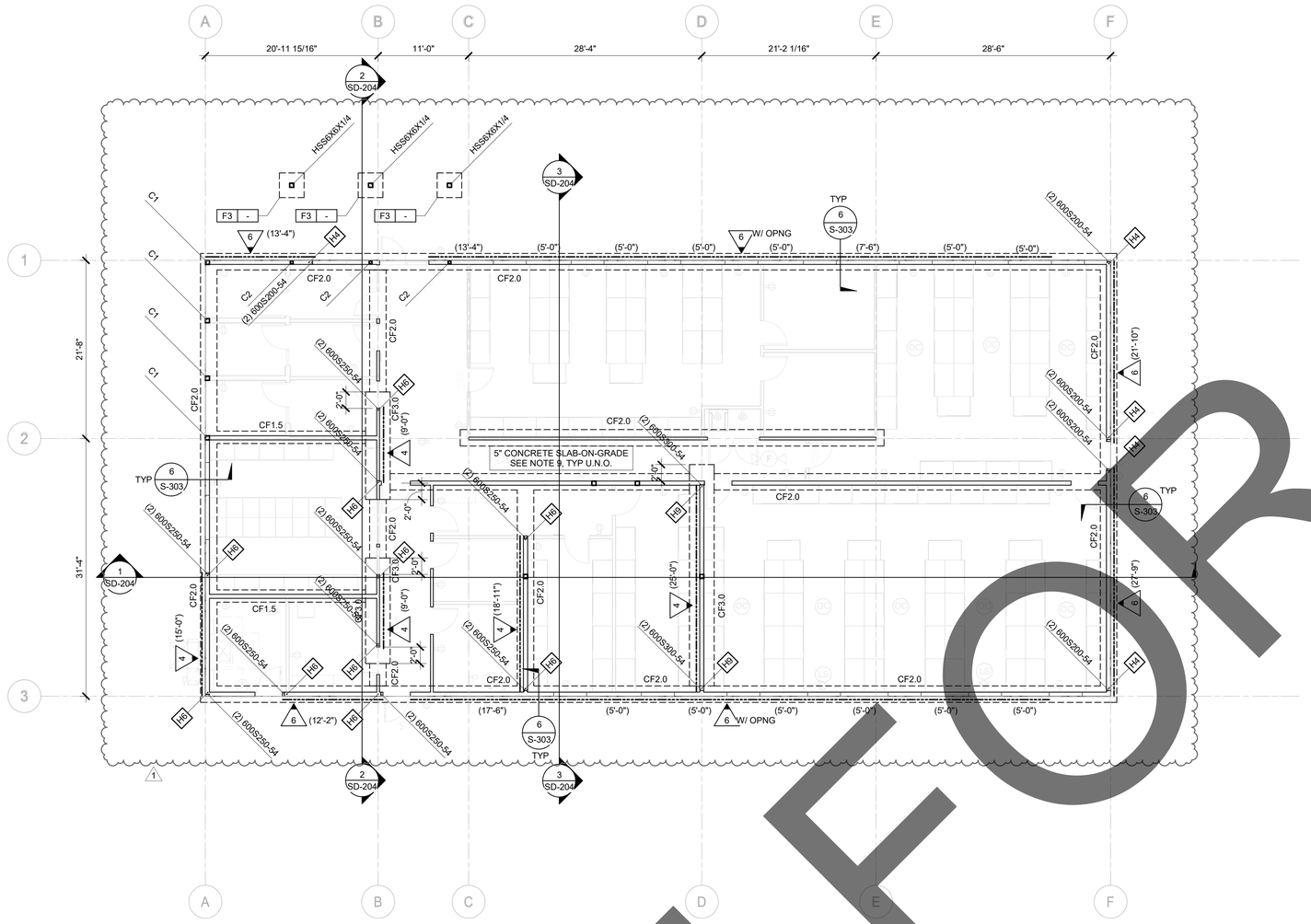
REGISTERED PROFESSIONAL ENGINEER
CRAIG M. CHAMBERLAIN
No. 4588
Exp. 06-30-25
STRUCTURAL
STATE OF CALIFORNIA

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



1 CAT BUILDING FOUNDATION PLAN - BLDG D

1/8" = 1'-0"

FOUNDATION PLAN NOTES

1. SEE SHEET **S-100** SERIES FOR STRUCTURAL NOTES.
   SEE SHEET **S-300** SERIES FOR TYPICAL CONCRETE DETAILS.
   SEE SHEET **S-500** SERIES FOR TYPICAL STEEL DETAILS.
   SEE SHEET **S-700** SERIES FOR TYPICAL DOLD FORM STEEL DETAILS
2. TOP OF SLAB ON GRADE = 0'-0" UNO
3. TOP OF FOOTING SHALL BE 1'-0" BELOW TOP OF SLAB OR FINISH GRADE, UNO.
4. S.A.D. FOR DIMENSIONS, ELEVATIONS, SLOPES, CURBS, STEPS, AND PADS NOTED ON PLAN.
5. COORDINATE LOCATION OF SLAB STEPS AND DEPRESSIONS WITH ARCHITECTURAL DRAWINGS.
6. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
7. ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED AND APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF REINFORCING STEEL.
8. PRIOR TO THE CONTRACTOR REQUESTING A BUILDING DEPARTMENT INSPECTION, THE SOILS ENGINEER SHALL ADVISE THE BUILDING OFFICIAL IN WRITING THAT:
   A. THE BUILDING PAD WAS PREPARED IN ACCORDANCE WITH THE SOILS REPORT,
   B. THE UTILITY TRENCHES HAVE BEEN PROPERLY BACKFILLED AND COMPACTED, AND
   C. THE FOUNDATION EXCAVATIONS COMPLY WITH THE INTENT OF THE SOILS REPORT
9. TYPICAL SLAB ON GRADE: 5" THICK W/ #4 AT 18" O.C. EA WAY FOR UNDERLAYMENT SEE 4/S-301
10. DENOTES CONTINUOUS FOOTING. SEE SCHEDULE 1/S-303 FOR FOOTING SIZE AND REINFORCEMENT (WFX)
11. S — · — S DENOTES STEPPED FOOTING. SEE DETAIL 5/S-302
12. CONTRACTOR SHALL COORDINATE AND LOCATE ALL DUCT, PIPE, CONDUIT, ETC PENETRATIONS THRU WALLS AND FOOTINGS AND PROVIDE THE ASSOCIATED FRAMING AND FOUNDATION CONDITIONS PER THE TYPICAL DETAILS.
13. DENOTES METAL STUD FRAMED WALL PER 1/S-700 AND 1/S-702

COLUMN SCHEDULE - BUILDING D

MARK	SIZE
C1	HSS6X6X1/4
C2	HSS4X4X1/4
C3	HSS6X4X3/8

NOTES:

1. REFER TO DETAILS 5/S-301 FOR ANCHOR BOLT AND BASE PLATE INFORMATION, UNO.
2. REFER TO DETAILS 2/S-304 AND 3/S-304 FOR FOOTING INFORMATION AT STEEL COLUMNS, UNO.

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PROJECT INFORMATION

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Checked By:	JP
Issue Date:	06/12/2024

SHEET NAME

CAT BUILDING FOUNDATION PLAN

SHEET NUMBER

SD-201

Sheet Of Sheets

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PROJECT #22007569.00

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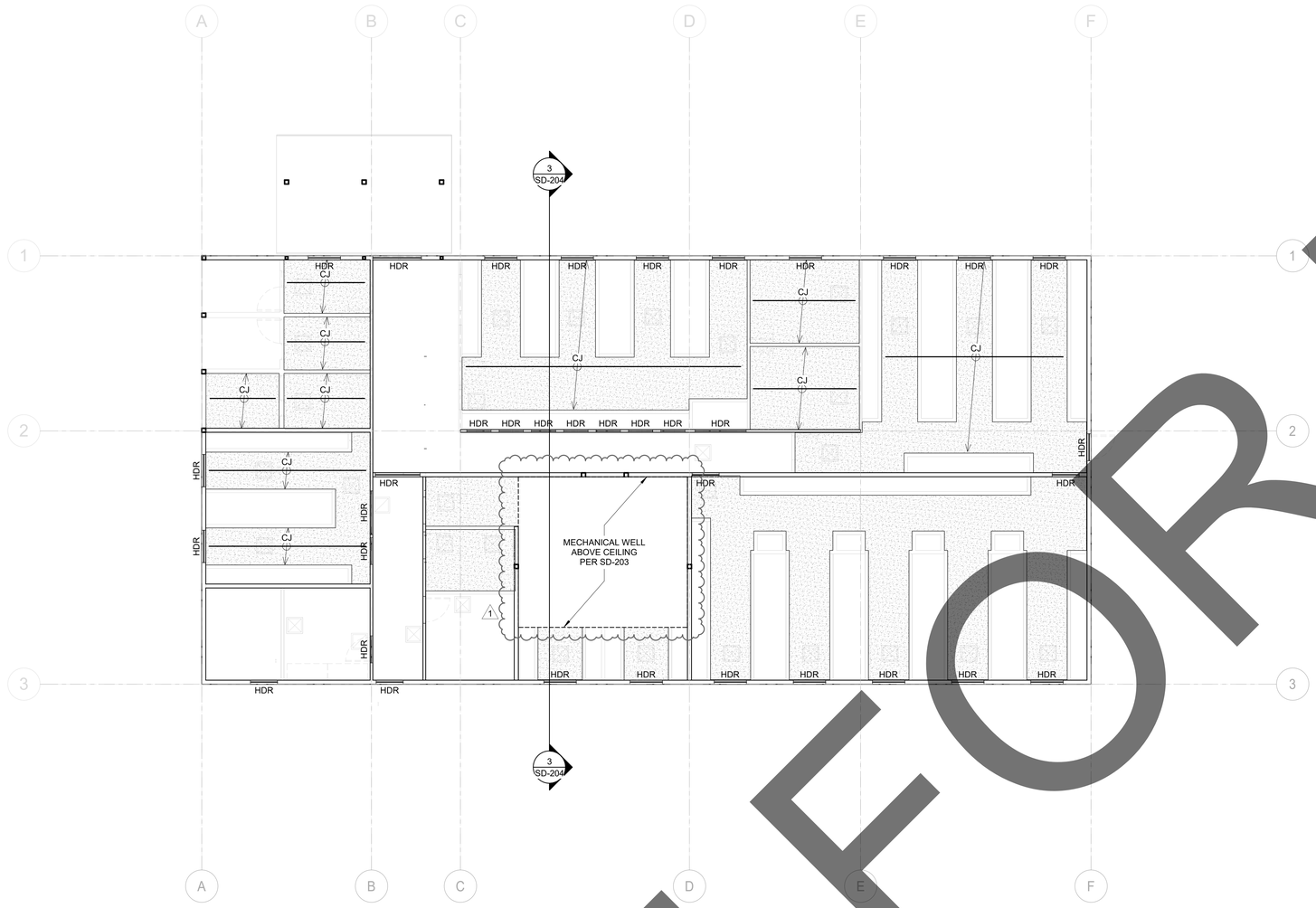

CAT BUILDING CEILING PLAN - BLDG D

1/8" = 1'-0"

NORTH

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SHEET NAME

CAT BUILDING CEILING PLAN

SHEET NUMBER

SD-202

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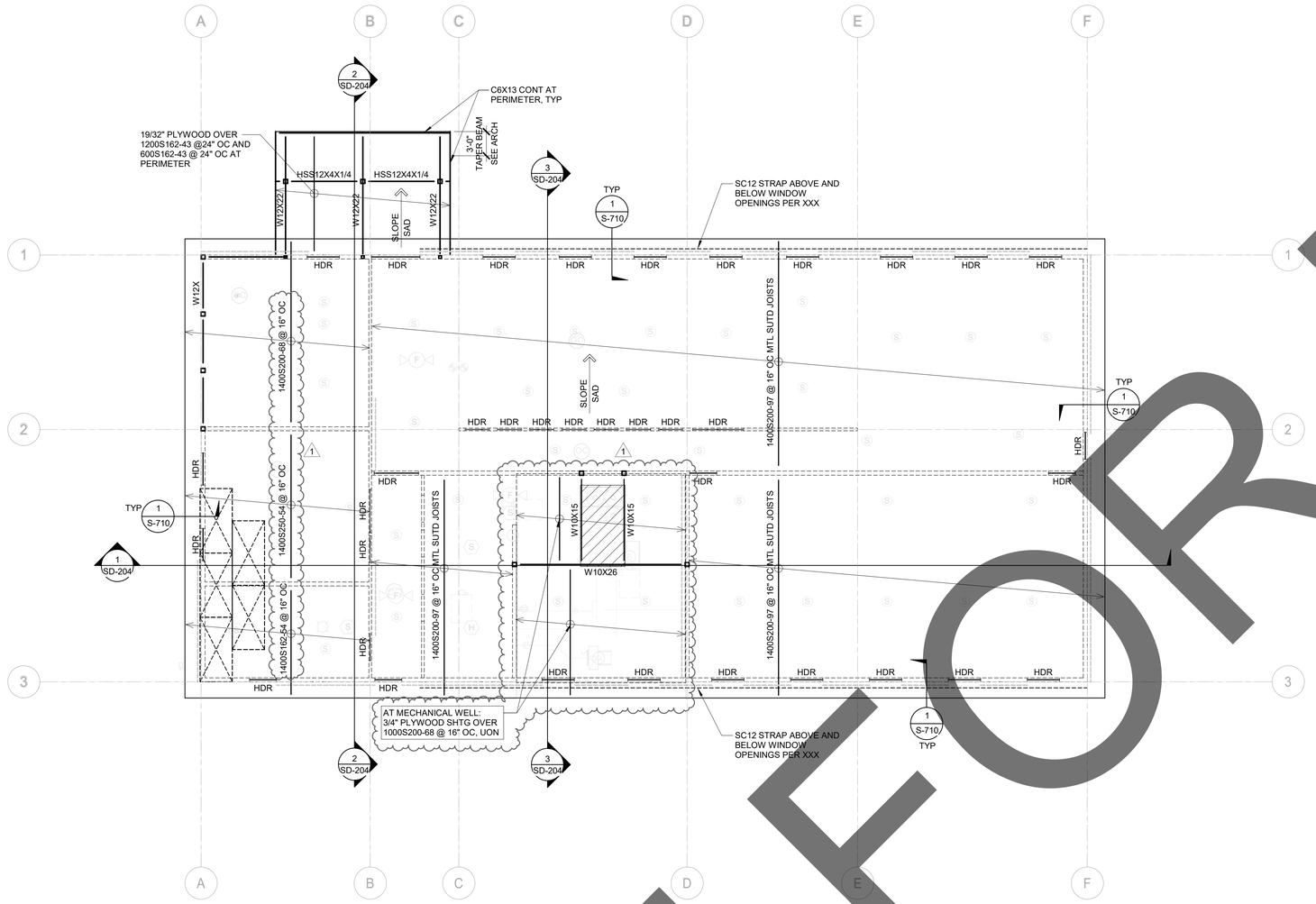

CAT BUILDING ROOF PLAN - BLDG D

1/8" = 1'-0"

ROOF PLAN NOTES

1. SEE SHEET **S-100** SERIES FOR STRUCTURAL NOTES.
   SEE SHEET **S-700** SERIES FOR TYPICAL COLD FORM DETAILS.
2. ALL DIMENSIONAL INFORMATION SHOWN IS BASED ON THE ARCHITECTURAL DRAWINGS. FOR ANY DIMENSIONAL INFORMATION NOT SHOWN REFER TO THE ARCHITECTURAL DRAWINGS.
3. BEAM TO BE EQUALLY SPACED BETWEEN SUPPORTS UNO.
4. FOR COLUMN SIZES, SEE FOUNDATION PLAN.
5. XX / XX — DENOTES MECHANICAL UNIT PER MEP DWGS
   XXX# — DENOTES UNIT MAX OPER WT W/ CURB AND ALL ATTACHMENTS INCLUDED

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SHEET NAME

CAT BUILDING ROOF PLAN

SHEET NUMBER

SD-203

Sheet Of Sheets