

MOUNTAIN HOME FIRE STATION #2


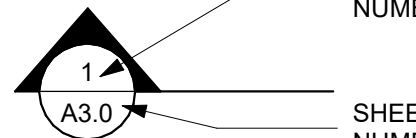
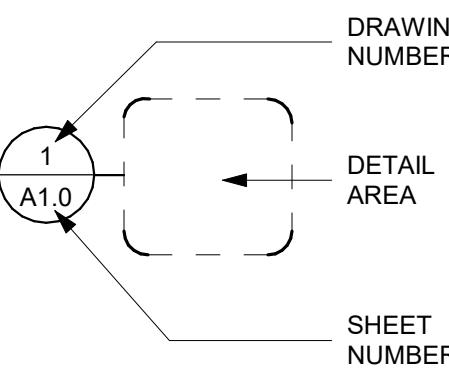
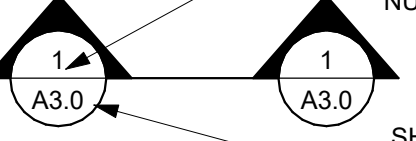
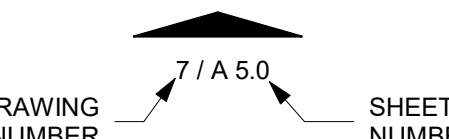
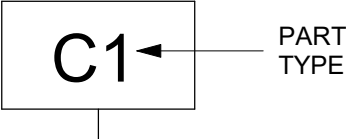
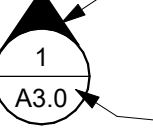
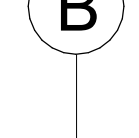


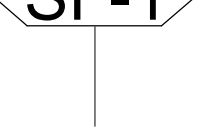
2030 HWY 62 E
MOUNTAIN HOME, AR 72653

CONSTRUCTION DOCUMENTS

APRIL 23, 2024



ARCHITECTUAL SYMBOLS

 NORTH ARROW	 WALL SECTION
 ENLARGED DETAIL MARKER	 BUILDING SECTION
 INTERIOR ELEVATION	 PARTITION TYPE
 EXTERIOR ELEVATION	 GRID LINE
	 DOOR TAG
	 WINDOW TAG
	 STOREFRONT

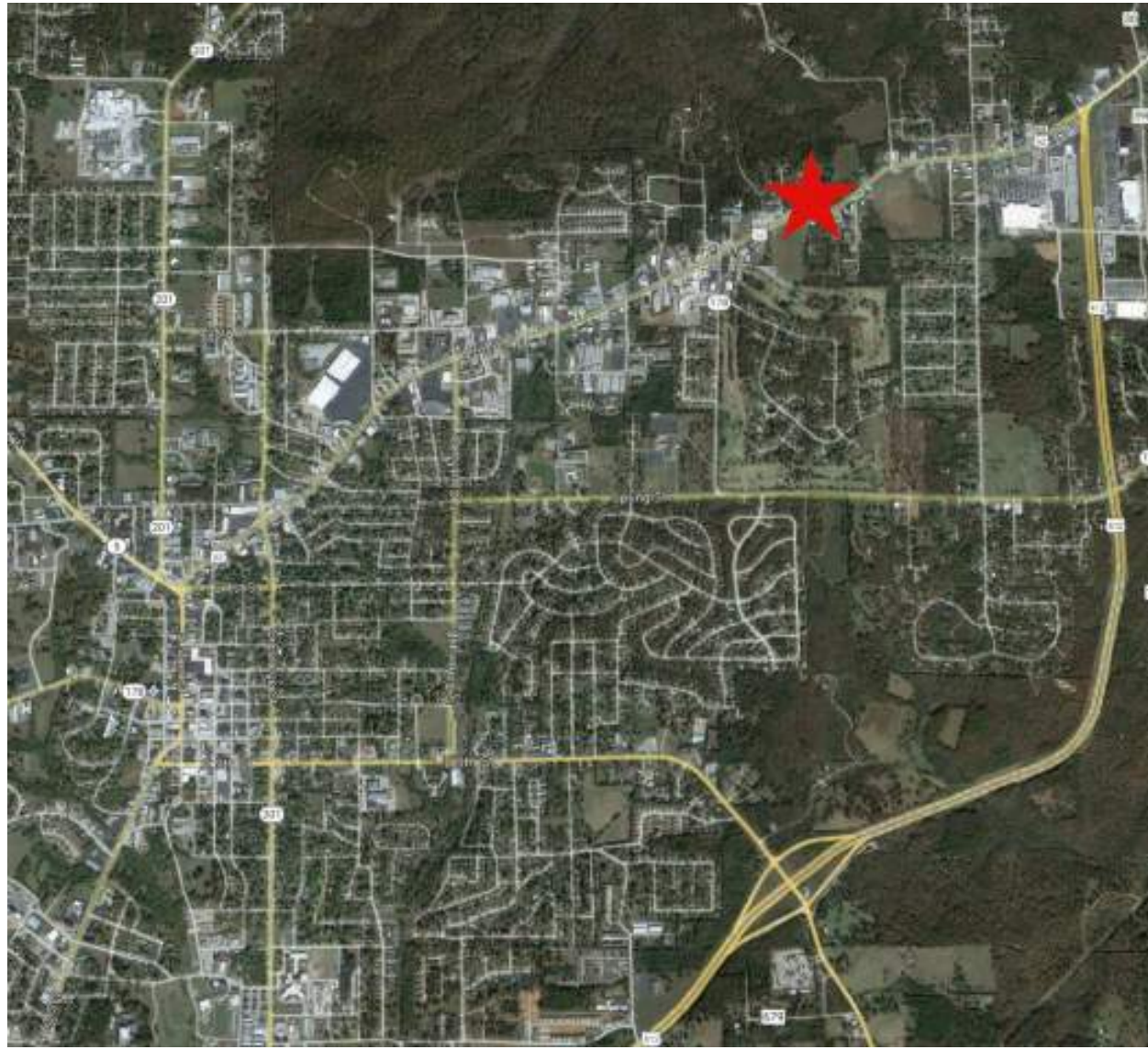
PROJECT INFORMATION

OWNER: CITY OF MOUNTAIN HOME/ MOUNTAIN HOME FIRE DEPARTMENT
CONSTRUCTION TYPE: VB
OCCUPANCY CLASSIFICATION: R-2 & S-2
SPRINKLED: NO
MEZZANINE: YES
TOTAL BUILDING AREA: 10,821
SEISMIC DESIGN: SEE STRUCTURAL
SNOW LOAD: SEE STRUCTURAL
WIND LOAD: SEE STRUCTURAL
ROOF LOADS:
APPARATUS BAY: DEAD= 23 PSF/ LIVE= 20 PSF
LIVING AREA: DEAD= 22 PSF/ LIVE= 20 PSF

APPLICABLE CODES

2021 Arkansas Fire Prevention Code Volumes I (2012 IBC WITH ARKANSAS AMENDMENTS)
2021 Arkansas Fire Prevention Code Volumes II (2012 IBC WITH ARKANSAS AMENDMENTS)
2017 National Electrical Code
2018 Arkansas Plumbing Code
2018 Arkansas Fuel Code
2010 Arkansas Mechanical Code
2014 Arkansas Energy Code
2021 ARKANSAS MECHANICAL CODE
LIFE SAFETY CODES (AS REFERENCED BY IBC)
2012 INTERNATIONAL PROPERTY MAINTENANCE CODE
2009 ANSI A117.1
MOST CURRENT NFPA STANDARDS (IF APPLICABLE)
CURRENT STANDARDS BY THE CITY OF FAYETTEVILLE, AR

PROJECT LOCATION



MOUNTAIN HOME, ARKANSAS

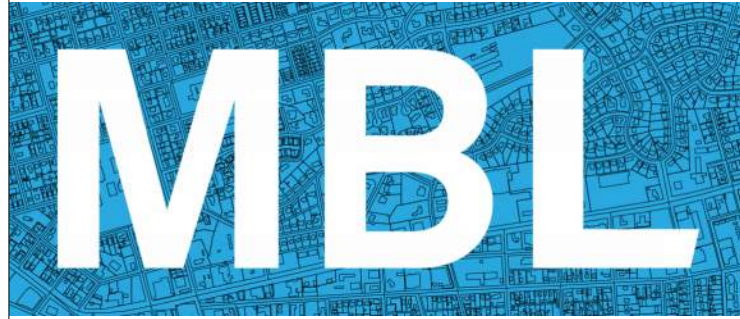
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ARCHITECT



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I hereby certify that these plans and specifications have been prepared by me, or under my supervision. I further certify that to the best of my knowledge these plans and specifications are as required by law and in compliance with the Arkansas Fire Prevention Code for the State of Arkansas.

x

Ashley Mauldin
SIGNATURE

OCCUPANCY COUNT				
ROOM NO	ROOM NAME	ROOM AREA	AREA PER OCCUPANT	OCCUPANT COUNT
LEVEL 1				
100	ENTRANCE	77 SF	100 SF	1
101	FITNESS	423 SF	50 SF	9
102	OFFICE	116 SF	50 SF	3
103	ADA TLT	62 SF	100 SF	1
104	OFFICER	109 SF	50 SF	3
105	DAY ROOM	668 SF	20 SF	34
106	COMMS.	75 SF	50 SF	2
107	HVAC & ELEC.	69 SF	300 SF	1
108	LAUNDRY	137 SF	50 SF	3
109	KITCHEN & DINING	591 SF	50 SF	12
110	HALLWAY	254 SF	100 SF	3
111	BED 1	143 SF	200 SF	1
112	BATH 1	44 SF	100 SF	1
113	BED 2	133 SF	200 SF	1
114	BATH 2	44 SF	100 SF	1
115	BED 3	133 SF	200 SF	1
116	BATH 3	44 SF	100 SF	1
117	BED 4	134 SF	200 SF	1
118	BATH 4	44 SF	100 SF	1
119	APPARATUS BAY	5144 SF	300 SF	18
120	DIRTY TLT.	78 SF	100 SF	1
121	BUNKER	304 SF	50 SF	7
122	TOOL	94 SF	50 SF	2
123	MOWER	94 SF	300 SF	1
MEZZANINE				
201	MEZZANINE	630 SF	50 SF	13

TOTAL OCCUPANTS: 121 PERSONS

LIFE SAFTY DATA

MAIN LEVEL AREA:

CONDITIONED: 4,843 S.F.

SEMI-CONDITIONED: 5,238 S.F.

PATIO: 740 S.F.

TOTAL BUILDING AREA: 10,821 S.F.

MEZZANINE AREA: 634 S.F.

SPACES W/ ONE EXIT OR ACCESS DOORWAY

OCCUPANCY	MAX OCC. LOAD OF SPACE	MAX DISTANCE W/ SPRINKLER
R-2	32	125'-0"
S-2	18	100'-0"

EXIT ACCESS TRAVEL DISTANCE (IBC TABLE 1017.2)

OCCUPANCY	SPRINKLERED	MAX DISTANCE W/ SPRINKLER
R-2	YES	250'-0"
S-2	YES	400'-0"

DEAD ENDS (IBC 1020.4)

OCCUPANCY	SPRINKLERED	MAX DISTANCE W/ SPRINKLER
R-2	YES	50'-0"
S-2	YES	50'-0"

LIFE SAFTY SUMMARY

1. OCCUPANCY CLASSIFICATION: (Chapter 3)

a. Section 304
Group R-2 - Residential
Group S-2 - Storage

2. BUILDING HEIGHTS AND AREAS: (Chapter 5)

a. Allowable Building Heights and Areas (Table 504.3)
Type VB, Unprotected, Non-Sprinklered: 40 feet height; 7,000 sf per floor; 2 Stories

Actual Number of Stories and Height
Building Height - 23' - 7 1/2"
Number of Stories - 1

b. Required Separation of Occupancies (Table 508.4): 1-hour rating

3. TYPES OF CONSTRUCTION: (Chapter 6)

a. Type VB - Building elements are to be constructed of any materials permitted by this code (Section 602.5)

b. Fire-resistance rating requirements for building elements of Construction Type VB (Table 601)

Primary structural frame - 0-hours
Bearing walls interior and exterior - 0-hours
Floor Construction and associated secondary members - 0-hours
Roof Construction and associated secondary members - 0-hours

NOTE: NO LIMIT ON AREA OF NORTH, SOUTH, EAST, AND WEST EXTERIOR WALL OPENINGS DUE TO GREATER THAN 30'-0" OF SEPARATION; UNLIMITED UNPROTECTED OPENINGS PERMITTED (SECTION 704.8.2)

c. Concealed Spaces (602.4.3.5): shall not contain combustibles other than electrical, mechanical, fire protection, or plumbing materials and equipment permitted in plenums in accordance with IMC section 602.

4. FIRE & SMOKE PROTECTION (Chapter 7)

a. Firewalls (Table 706.4): 2-hour fire wall is provided between usage areas R-2 & S-2.

1. Exception A: 2-Hour rated wall is allowed in Type V Construction

b. Fire Partitions: Shall have a rating of not less than 1-hour

c. Rated Doors (Table 716.1)

a. Fire Wall with >1 hour rating: 2 hour wall = 90 min door

b. Fire Partition with 1 hour rating: 1 hour wall = 20 min door

b. Buildings on the same lot (705.3): Exception: two or more buildings on the same lot shall either be regulated as separate buildings or shall be considered as portions of one building if the aggregate area of such buildings is within the limits specified in Chapter 5 for a single building.

5. INTERIOR FINISH (Chapter 9)

a. Class B interior finish materials required for Exit Enclosures and Exit Passageways and Corridors.

b. Class C interior finish materials required for Rooms and Enclosed Spaces.

6. FIRE PROTECTION SYSTEMS: (Chapter 9)

a. Portable fire Extinguishers (906) installed in accordance with NFPA 10.
- within 30 feet of commercial cooking equipment
- Otherwise 75'-0" travel distance

7. MEANS OF EGRESS: (Chapter 10)

a. Ramps (1012)

i. Ramps used as part of a means of egress shall have a running slope not steeper than 1:12. The slope of other pedestrian ramps shall not be steeper than 1:8

9.0 FIXTURE REQUIREMENTS

FIXTURE	OCCUPANCY	RATE		CALCULATION		TOTAL REQUIRED	TOTAL PROVIDED
		MALE	FEMALE	MALE	FEMALE		
A. Water Closets	Residential R-2	1 per dwelling unit		4		5	6
	Storage S-2	1 per 100		1			
B. Lavatories	Residential R-2	1 per dwelling unit		4		5	7
	Storage S-2	1 per 100		1			
C. Bathtubs/Showers	Residential R-2	1 per dwelling unit		4		4	4
	Storage S-2	1 per 100		N/A			
D. Drinking Fountains	Residential R-2	N/A		0		1	1
	Storage S-2	1 per 100		1			
E. Service Sink	Residential R-2					1	2
	Storage S-2	1 service sink		1			

SHEET NOTES

- THE PURPOSE OF THIS DRAWING IS TO ILLUSTRATE IN SCHEMATIC FASHION, THE APPLICABLE EXITING, FIRE-RESISTANCE, AND LIFE SAFETY CONCEPTS UTILIZED BY THIS PROJECT.
- ADDITIONAL DETAILED REQUIREMENTS APPLY TO THE CONSTRUCTION OF PARTITIONS, FIRE RATED DOOR ASSEMBLIES, INTERIOR GLAZED OPENINGS, DUCTS, SMOKE AND FIRE DAMPERS AND THROUGH PENETRATION FIRE STOPPING, REFER TO THE DRAWINGS OF EACH DISCIPLINE AND THE SPECIFICATION FOR THESE REQUIREMENTS.
- SEE A-6.1 SHEET SERIES FOR DOOR AND HARDWARE INFORMATION.
- SEE FIRE PROTECTION AND FIRE ALARM SHEETS FOR FURTHER INFORMATION REGARDING FIRE PROTECTION SYSTEMS.
- ADDITIONAL DETAILED REQUIREMENTS SHOWN ELSEWHERE MAY REQUIRE CONSTRUCTION HAVING GREATER FIRE-RATINGS, MORE EXTENSIVE FIRE-RATED CONSTRUCTION, OR MORE COMPLEX ASSEMBLIES THAN INDICATED BY THE DIAGRAMS ON THIS SHEET. WHEN PROVIDED, THE ADDITIONAL DETAILED REQUIREMENTS SHALL GOVERN.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH ALL APPLICABLE LAWS, CODES, STANDARDS, REGULATIONS, AND ORDINANCES OF THE PLACE (CITY, COUNTY, DISTRICT AND STATE) WHERE THE PROJECT IS LOCATED - ALTHOUGH SUCH REQUIREMENTS MAY NOT BE REFLECTED BY THESE DRAWINGS AND SPECIFICATIONS.
- INTERIOR FINISHES SHALL HAVE A FLAME SPREAD INDEX RATING OF NO MORE THAN CLASS B.
- ALL MATERIALS EXPOSED WITHIN DUCTS OR PLENUMS SHALL HAVE A FLAME-SPREAD RATING INDEX NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 50.
- FIRE EXTINGUISHERS SHALL BE LOCATED SUCH THAT A MAXIMUM TRAVEL DISTANCE OF 75' SHALL NOT BE EXCEEDED.
- POSTING OF ROOM OCCUPANCY (IBC SECTION 1004.3) PROVIDE SIGNAGE PER SPECIFICATION.
- SEE FLOOR PLAN FOR WALL TYPE LOCATIONS.
- SEE ASSEMBLY SCHEDULE FOR WALL TYPE DESCRIPTIONS.
- REFER TO SHEETS FOR FIRE CABINET DETAILS.

LIFESAFETY GRAPHIC LEGEND

FE	FIRE EXTINGUISHER CABINET (WALL/SURFACE MOUNTED)	
FEC	FIRE EXTINGUISHER CABINET (RECESSED IN WALL)	BUILDING EXIT
	75'-0" EXTINGUISHER RADIUS	PATH OF TRAVEL
	TRAVEL DISTANCE	WALL MOUNTED EXIT LIGHT W/ BATTERY BACK-UP
	TRAVEL TIME	CEILING MOUNTED EXIT LIGHT W/ BATTERY BACK-UP (LOCATE DIRECTLY OVER EXIT)
	2-HOUR FIRE RATED WALL	1 HOUR FIRE RATED WALL

OCCUPANCY CALCULATION LEGEND

	KITCHEN (NOT COMMERCIAL) OR WORKSPACE 50 SF/ PER PERSON
	BUSINESS 100 SF/ PER PERSON
	STORAGE OR MECH. 300 SF/ PER PERSON
	RESIDENTIAL 200 SF/ PER PERSON
	CLASSROOM 20 SF/ PER PERSON



1 LIFE SAFETY PLAN
1/8" = 1'-0"

2 MEZZANINE LIFE SAFETY PLAN
1/8" = 1'-0"

REGISTERED ARCHITECT
4/23/24
MLL BORGUS LACK ARCHITECTS, P.A.
ARKANSAS

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MBL

CITY OF MOUNTAIN HOME, AR
FIRE STATION #2
2030 HIGHWAY 60 E
MOUNTAIN HOME, AR 72653

MBL JOB NO.
230006

ISSUE DATE
04/23/2024

SHEET
CONTENTS
LIFE SAFETY & BUILDING CODE

SHEET
G.01

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TYPICAL MOUNTING HEIGHTS

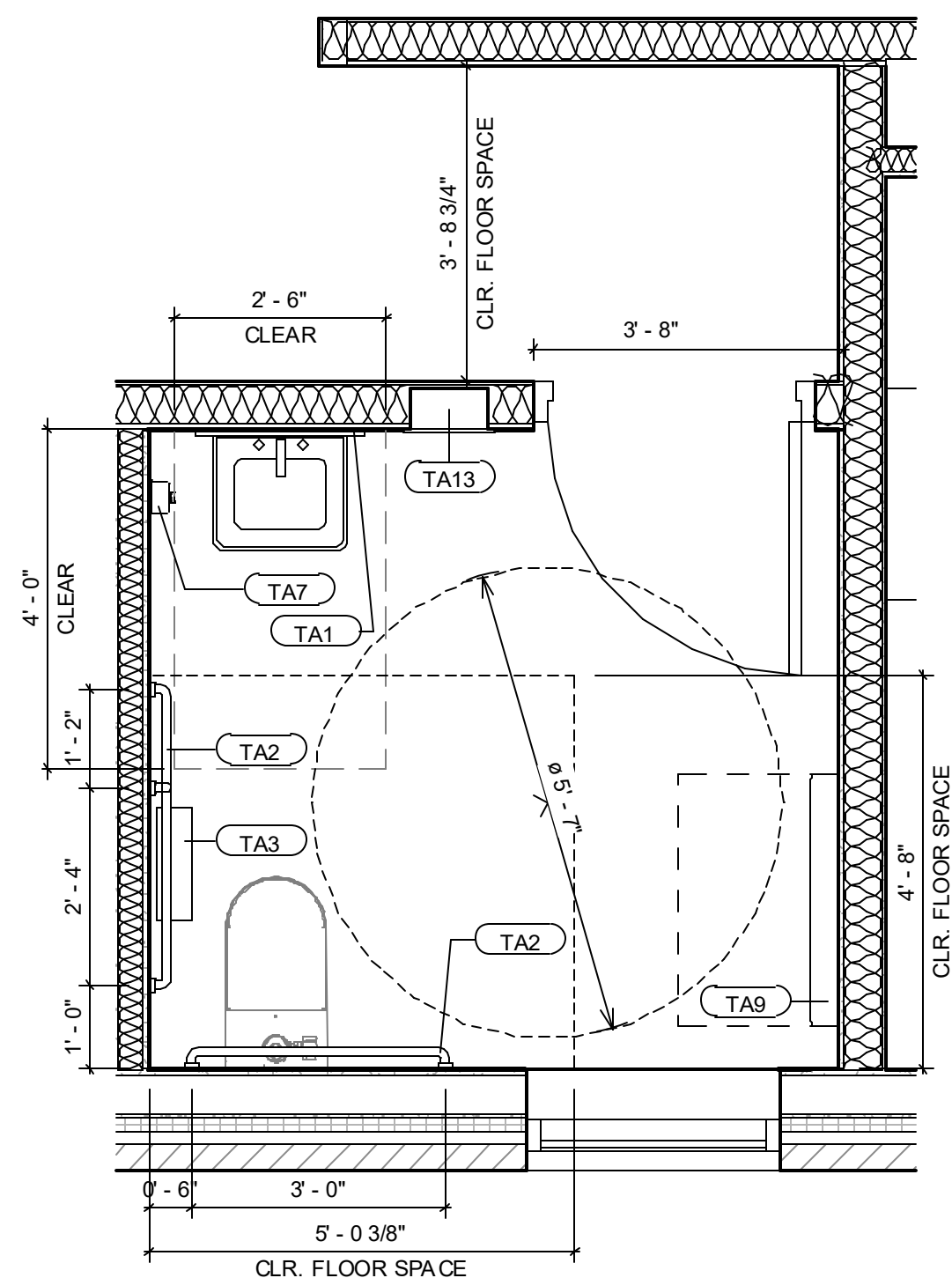
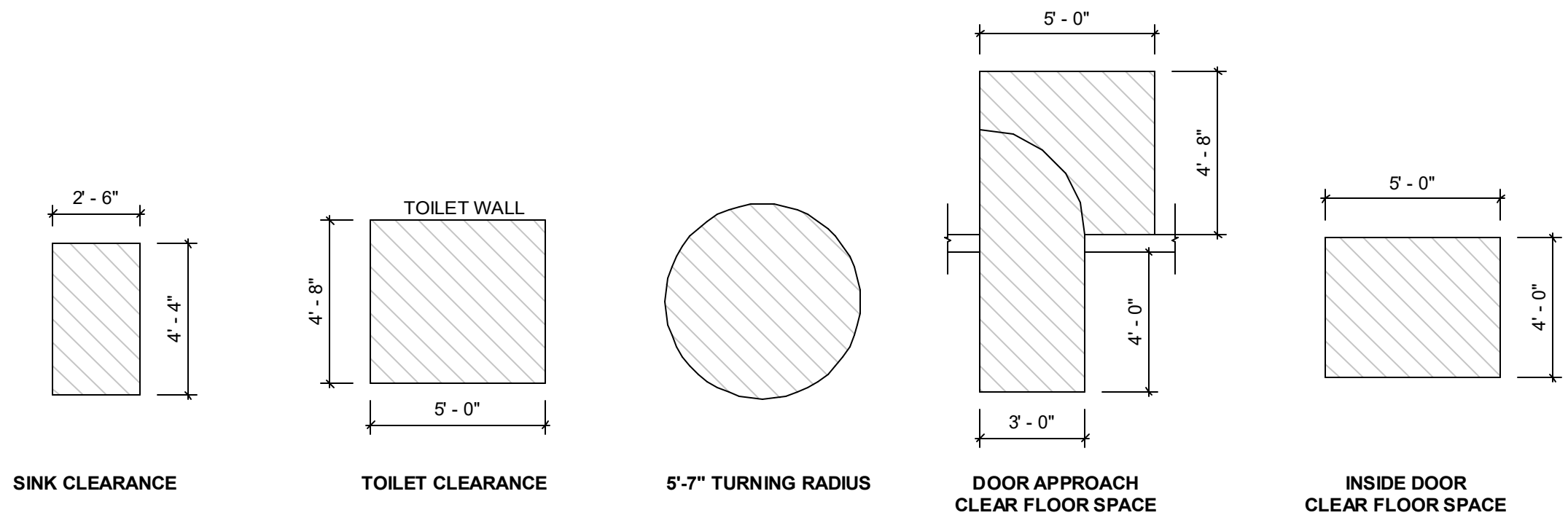
CHANGING STATION	TOILET PARTITION	COUNTER LAVATORY	WALL-MOUNTED LAVATORY	ADULT WATER CLOSET	URNAL	DRINKING FOUNTAIN	MOP SINK BASIN
<p>2'-10" T.O. TABLE</p>	<p>PARTITION DOOR</p> <p>TOILET PARTITION NOTE: 24" WIDE REGULAR STALL DOORS 32" WIDE MIN. ADA STALL DOORS</p> <p>7'-6"</p> <p>6"</p>	<p>ADA UNDER-MOUNT SINK</p> <p>ADA DROP-IN SINK</p> <p>OTHER</p> <p>2'-10" T.O. COUNTER</p> <p>2'-10" T.O. SINK RIM</p> <p>3'-0" T.O. COUNTER</p>	<p>ADA</p> <p>OTHER</p> <p>2'-10"</p> <p>3'-0"</p>	<p>ADA</p> <p>OTHER</p> <p>1'-5" TO SEAT</p> <p>PER MFR</p>	<p>1'-5" ADA</p> <p>2'-0"</p>	<p>3'-7" TO SPOUT</p> <p>3'-0" (ADA) TO SPOUT</p>	<p>3'-0"</p>

UTILITY SHELF	MOP/BROOM HOLDER	MIRRORS	TOILET PAPER DISPENSER	GRAB BARS AT WATER CLOSETS	SANITARY NAPKIN DISPOSAL	SOAP DISPENSER	PAPER TOWEL DISPENSERS
<p>5'-0" TOP OF SHELF</p> <p>3'-2" A.F.F. (ADA) TO B.O. MIRROR CABINET FRAME</p>	<p>2 OVER SINK</p> <p>6'-0" A.F.F.</p>	<p>3'-2" A.F.F. (ADA) TO B.O. MIRROR CABINET FRAME</p>	<p>1'-7" A.F.F.</p>	<p>3'-4" FROM WALL</p> <p>1'-5" MIN</p> <p>2'-10" A.F.F.</p> <p>2'-0" 1'-6"</p>	<p>BOTTOM OF TOILET PARTITION WHERE OCCURS</p> <p>6'-1 9/16" A.F.F.</p>	<p>3'-6" A.F.F. B.O. DSP.</p>	<p>SURFACE MOUNTED</p> <p>RECESSED AUTOMATIC PAPER TOWEL DISPENSER AND WASTE RECEPTACLE</p> <p>5'-8" A.F.F.</p> <p>5'-8" A.F.F.</p>

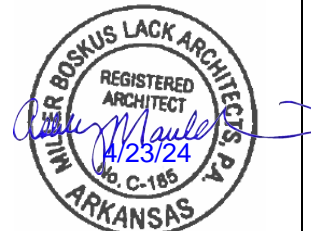
PERSONAL EMERGENCY PULL SWITCH	ROB HOOKS	TOWEL BAR	TOILET SEAT COVER DISPENSER	SANITARY NAPKIN DISPENSER	FIRE EXTINGUISHER CABINET	CLOSET SHELF AND ROD	UTILITY SHELF
<p>3'-6"</p>	<p>4'-0" B.O. HOOK</p> <p>5'-6" B.O. HOOK</p>	<p>3'-6"</p>	<p>4'-0" MAX 1'-3" MIN</p>	<p>4'-0" MAX (ADA)</p> <p>TO OPERABLE PARTS</p>	<p>4'-6" (AFF) FIRE HANDLE NOT TO EXCEED</p>	<p>5'-6" TOP OF SHELF</p> <p>4'-3 5/8" ADA TOP OF SHELF</p> <p>5'-0" TOP OF SHELF</p>	<p>5'-0" TOP OF SHELF</p>

ADA CLEARANCES

NOTE: SPECIFIC ADA CLEAR FLOOR SPACE REQUIREMENTS FOR INDIVIDUAL ITEMS



1 ADA WALL SINK / TYP. ACCESSIBLE TOILET
1/2" = 1'-0"



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MBL



CITY OF MOUNTAIN HOME, AR
FIRE STATION #2
2030 HIGHWAY 62 E.
MOUNTAIN HOME, AR 72653



I.D.	REVISION	DATE

MBL JOB NO.
230006

ISSUE DATE
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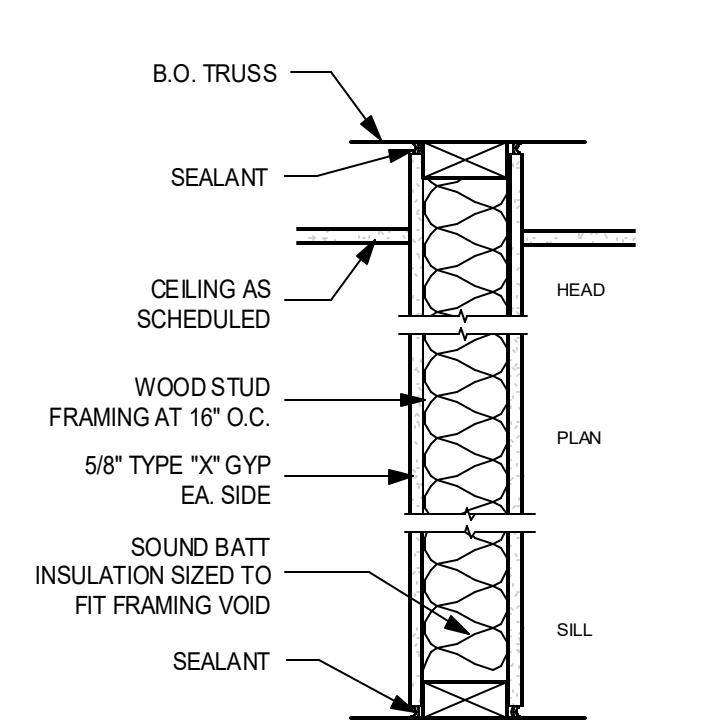
**SHEET
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**GENERAL
INFORMATION**

SHEET
G.02

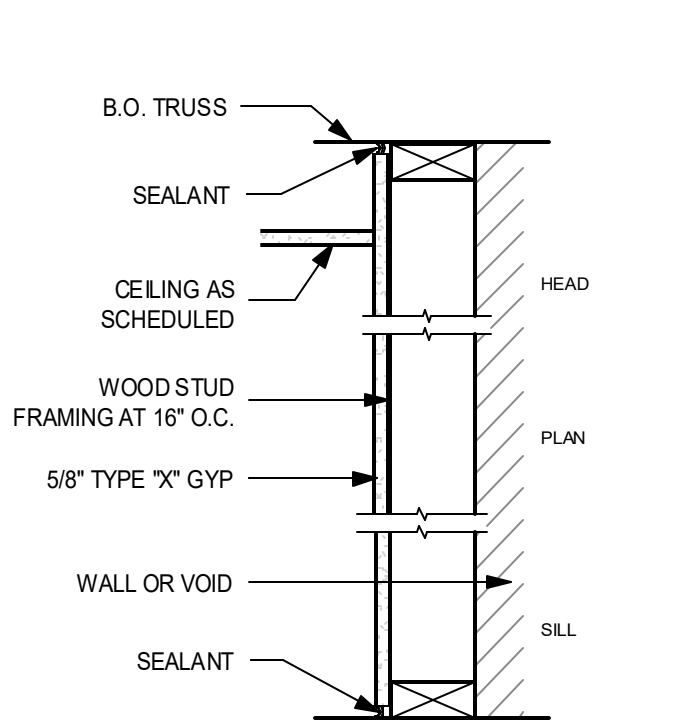
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PARTITION TYPES



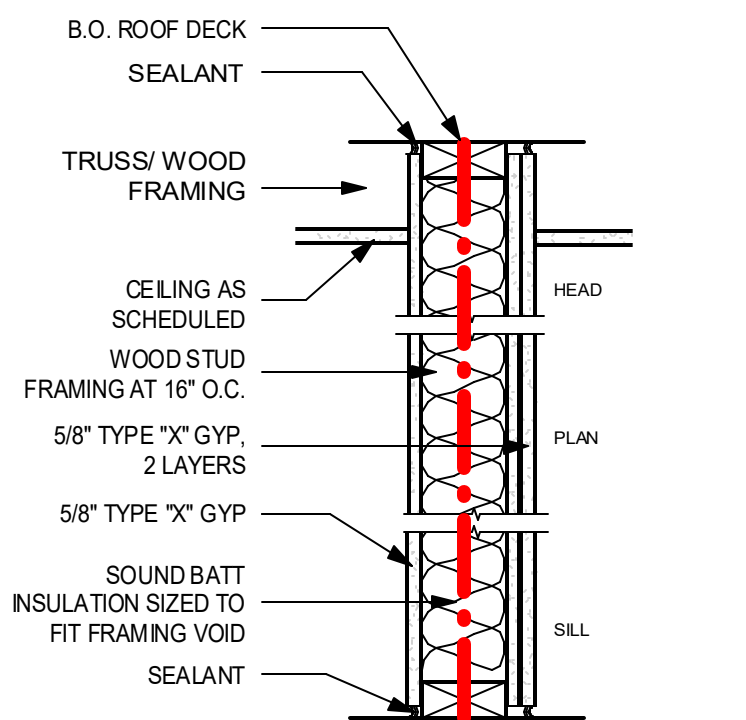
TYPE	STUD SIZE	ASSEMBLY DEPTH
A1	1 - 1/2"	2 - 3/4"
A3	3 - 1/2"	4 - 3/4"
A6	5 - 1/2"	6 - 3/4"

PARTITION TYPE A / AI
A= NO INSULATION



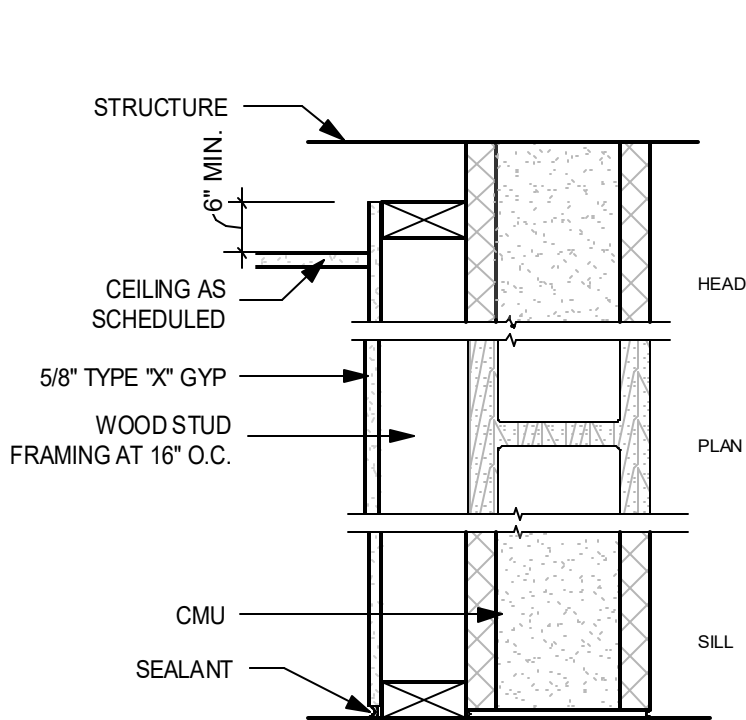
TYPE	STUD SIZE	ASSEMBLY DEPTH
B1	1 - 1/2"	2 - 1/8"
B3	3 - 1/2"	4 - 1/8"
B6	5 - 1/2"	6 - 1/8"

PARTITION TYPE B



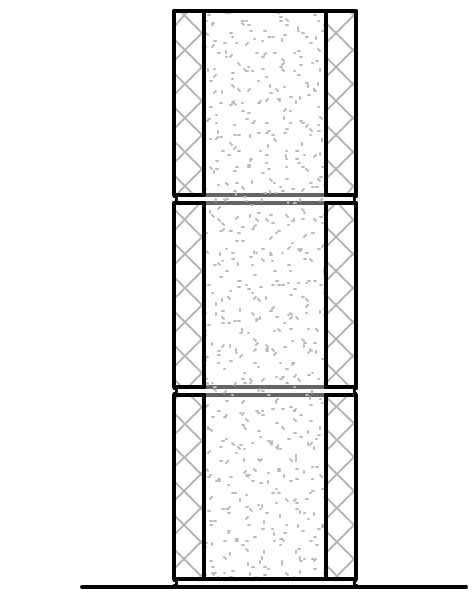
TYPE	STUD SIZE	ASSEMBLY DEPTH
C1	1 - 1/2"	3 - 3/8"
C3	3 - 1/2"	5 - 3/8"
C6	5 - 1/2"	7 - 3/4"

PARTITION TYPE C
1-HOUR FIRE RATED WALL
(USE FIRE CAULK IN ALL APPLICABLE LOCATIONS)



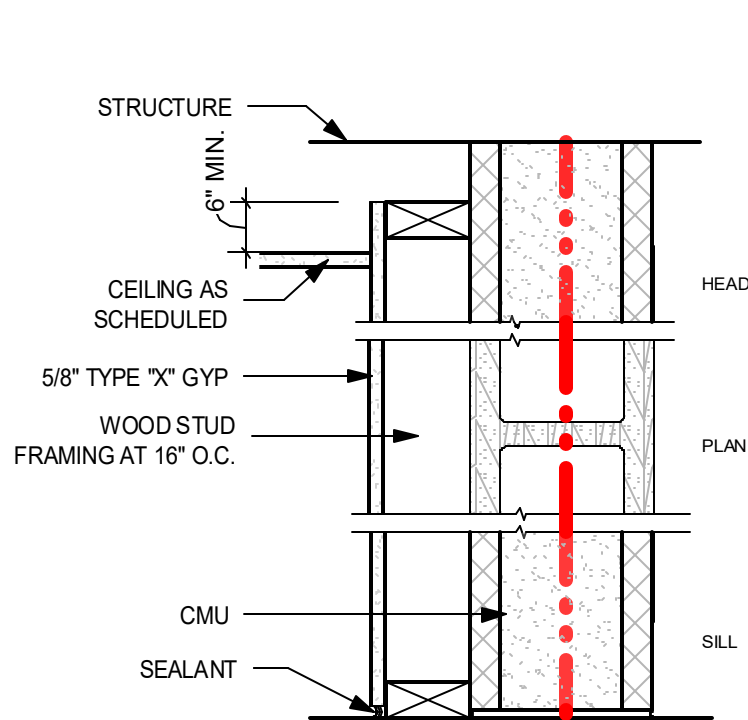
TYPE	STUD SIZE	ASSEMBLY DEPTH
G1	1 - 1/2"	9 - 3/4"
G3	3 - 1/2"	11 - 3/4"
G6	5 - 1/2"	13 - 3/4"

PARTITION TYPE G



TYPE	BLOCK SIZE	ASSEMBLY DEPTH
H4	3-5/8"	---
H8	7-5/8"	---

PARTITION TYPE H

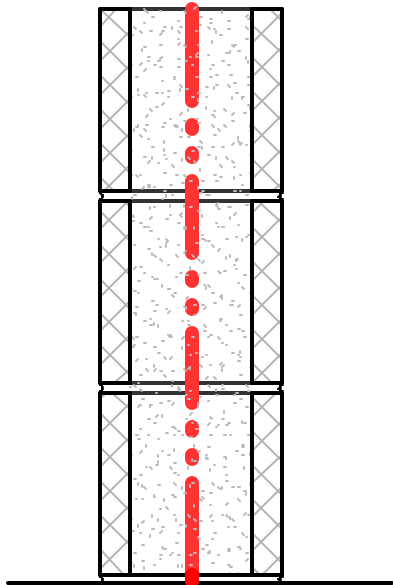


TYPE	STUD SIZE	ASSEMBLY DEPTH
S1	1 - 1/2"	9 - 3/4"
S3	3 - 1/2"	11 - 3/4"
S6	5 - 1/2"	13 - 3/4"

PARTITION TYPE S
2-HOUR FIRE RATED WALL
(USE FIRE CAULK IN ALL APPLICABLE LOCATIONS)

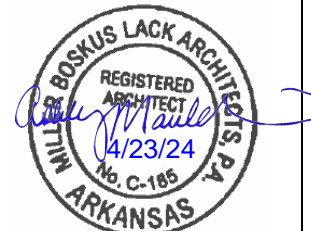
GENERAL PARTITION NOTES

1. REFER TO WALL SECTIONS FOR EXTERIOR WALL ASSEMBLIES.
2. USE MOISTURE RESISTANT GYP. FOR ALL SURFACES IN TOILET ROOMS, JANITOR AREAS, AND WET AREAS OF KITCHEN.
3. SEE ELEVATIONS FOR MATERIAL PATTERNS, CONTROL JOINTS, TILE PATTERNS AND METAL PANEL PATTERNS.
4. ALL MASONRY VENEER CAVITY WALLS TO HAVE WEEP HOLES @ 32" O.C. AT BASE OF WALL CAVITY AND FLASHING OVER SHELF ANGLE SUPPORTS.
5. ALL RATED ASSEMBLIES SHALL HAVE PERIMETER AND PENETRATIONS SEALED WITH FIRE CAULK.
6. AT ALL WINDOWS OCCURRING IN BRICK VENEER: EITHER 1ST COURSE OF RESTING BRICK SHALL BE SOLID CORE OR STEEL LINTEL MUST BE DEEP ENOUGH TO COVER BOTTOM OF BRICK CORES.
7. FOR ALL SOUNDS PARTITIONS: USE RESILIENT ACOUSTICAL SEALANT TO SEAL PERIMETER OF GYP PANELS, ANY OPENINGS, OUTLET BOXES, & INTERSECTIONS. OPENINGS ON OPPOSITE SIDE OF WALL SHALL HAVE HORIZONTAL OFFSET OF 16" MIN.
8. ADD SHEAR WALL SHEATHING TO WALL AS REQUIRED BY STRUCTURAL DRAWINGS. ON INTERIOR WALLS, ADD SHEATHING BEHIND GYPSUM BOARD.
9. INSULATION AT INTERIOR PARTITIONS/ WALLS SHALL BE SOUND BATTS.



TYPE	BLOCK SIZE	ASSEMBLY DEPTH
T4	3-5/8"	---
T8	7-5/8"	---

PARTITION TYPE T
2-HOUR FIRE RATED WALL
(USE FIRE CAULK IN ALL APPLICABLE LOCATIONS)



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MOUNTAIN HOME, AR 72653



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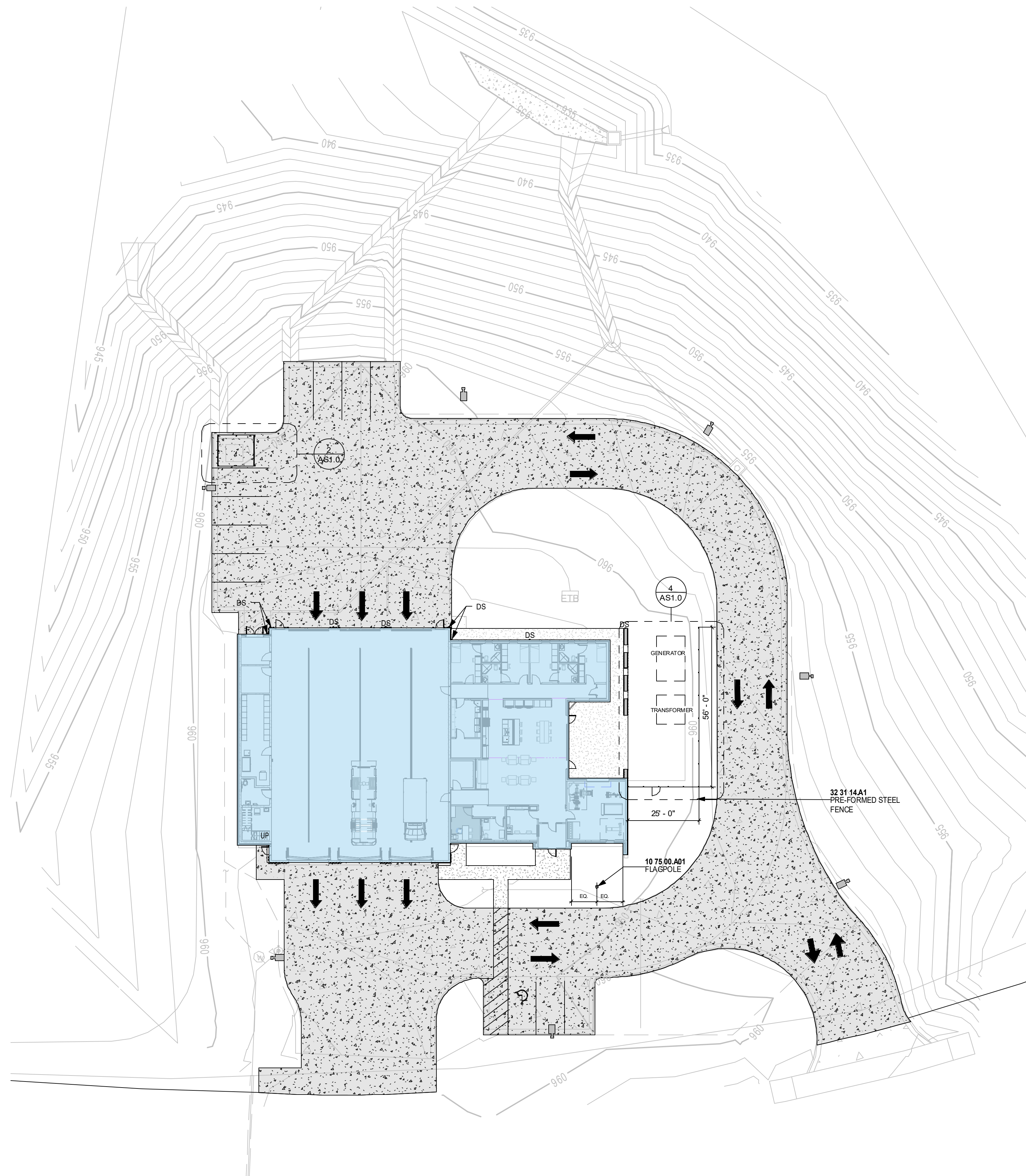
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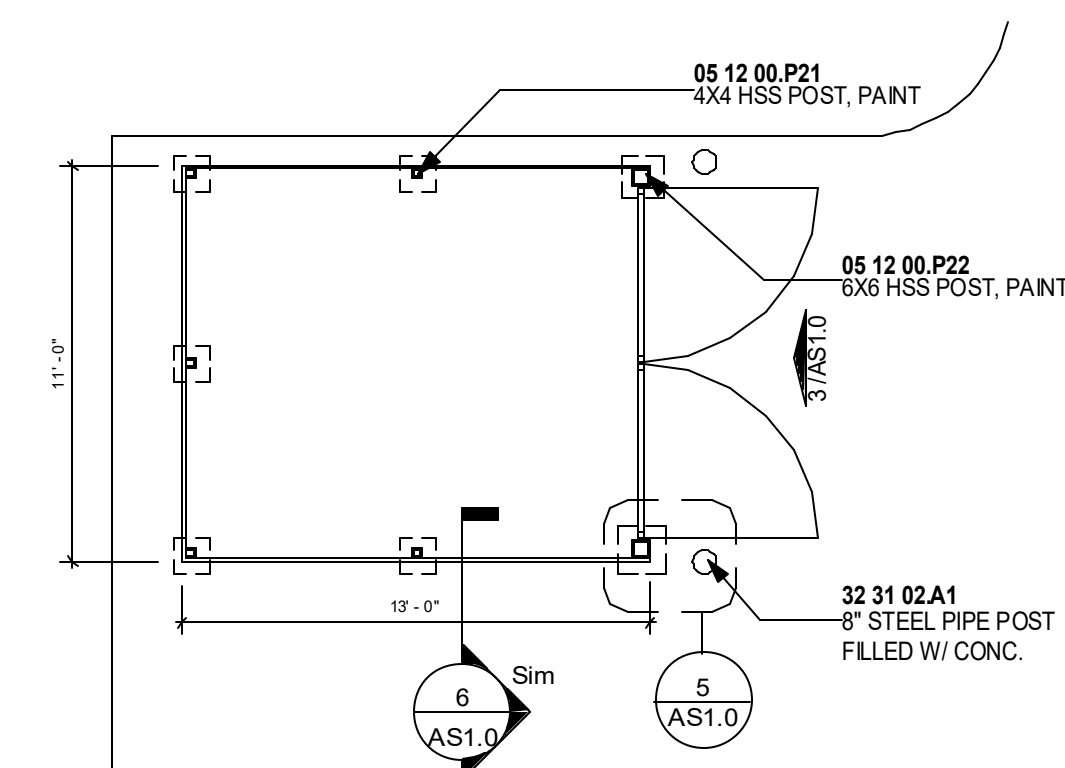
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**PARTITION
TYPES**

SHEET
G.03

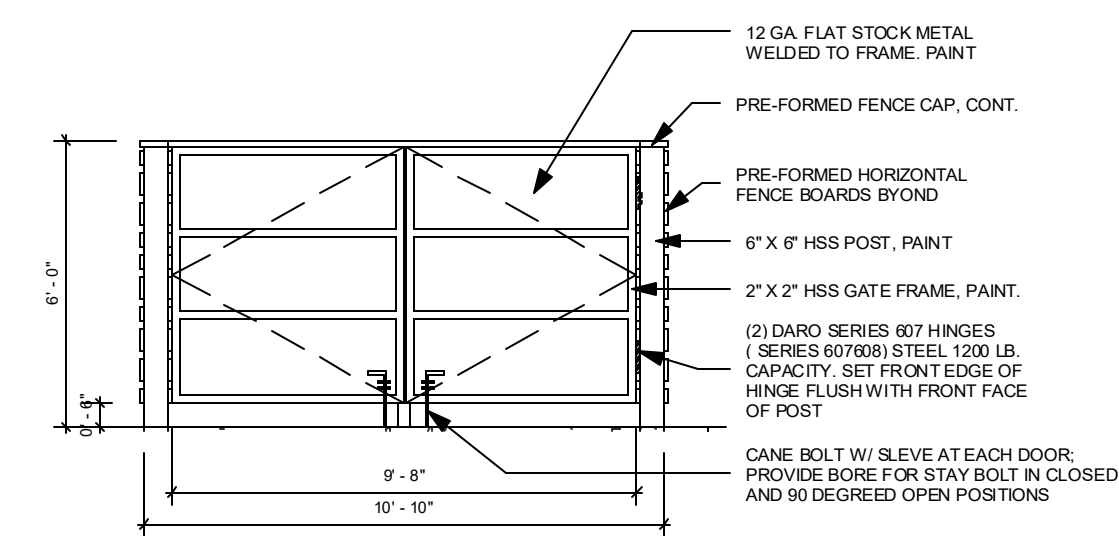
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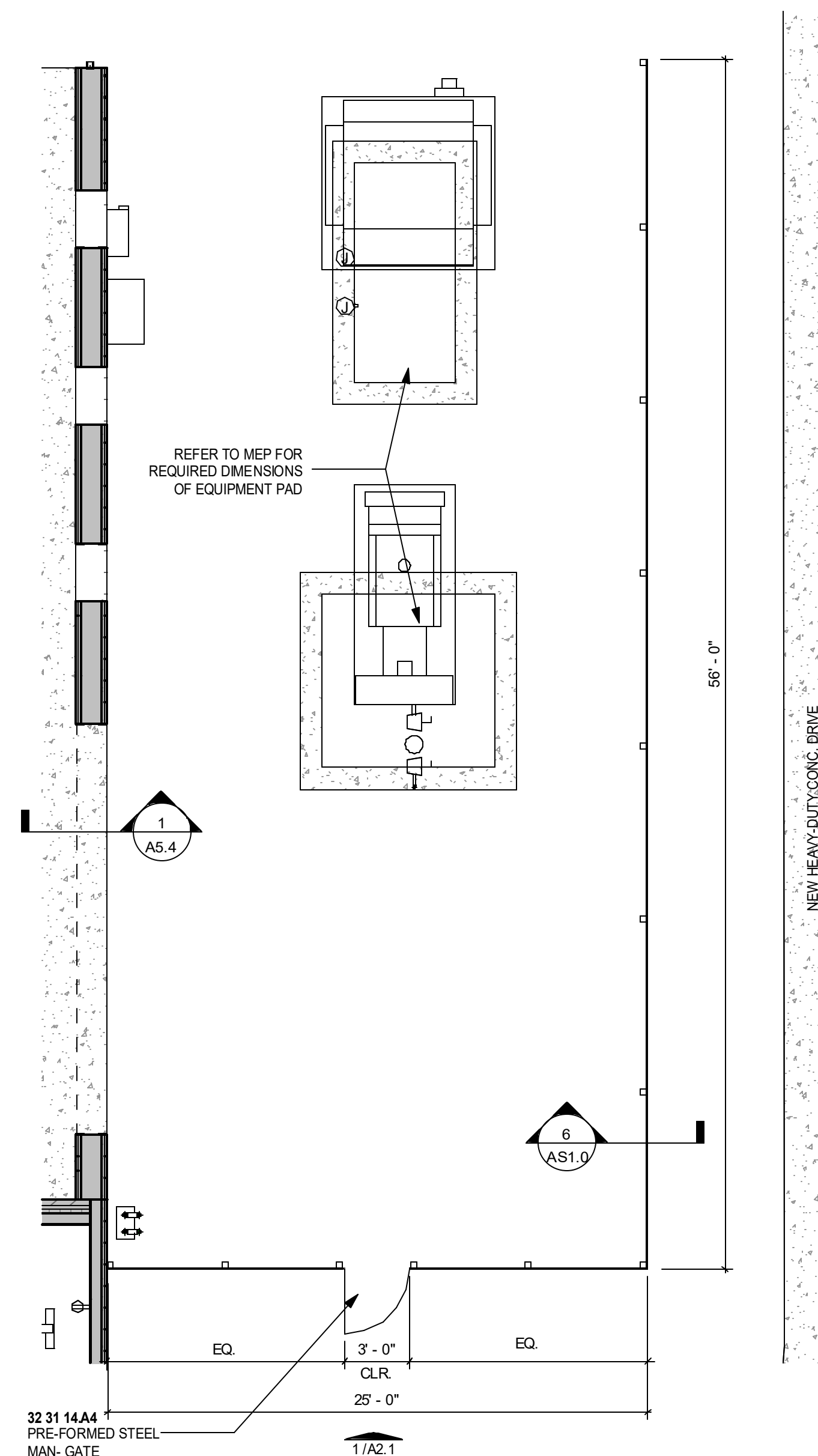
1 ARCH. SITE PLAN
3/64" = 1'-0"



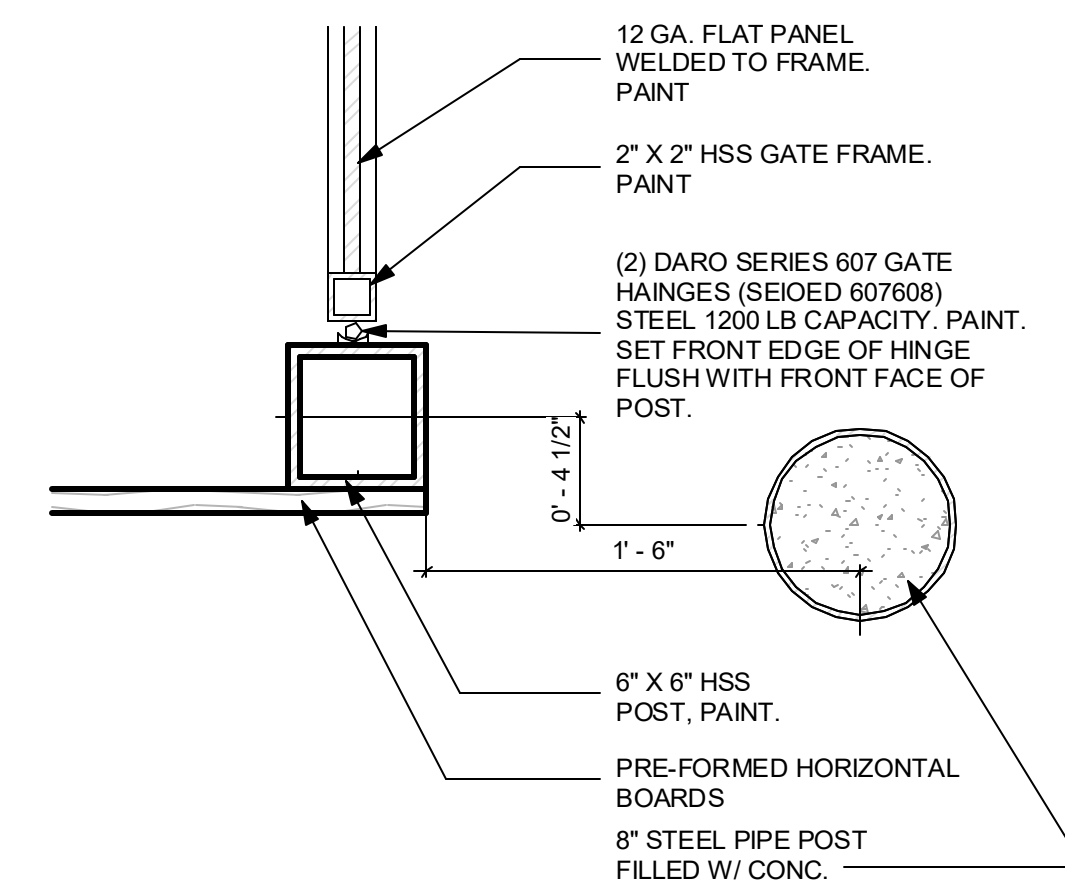
2 DUMPSTER ENCLOSURE
3/16" = 1'-0"



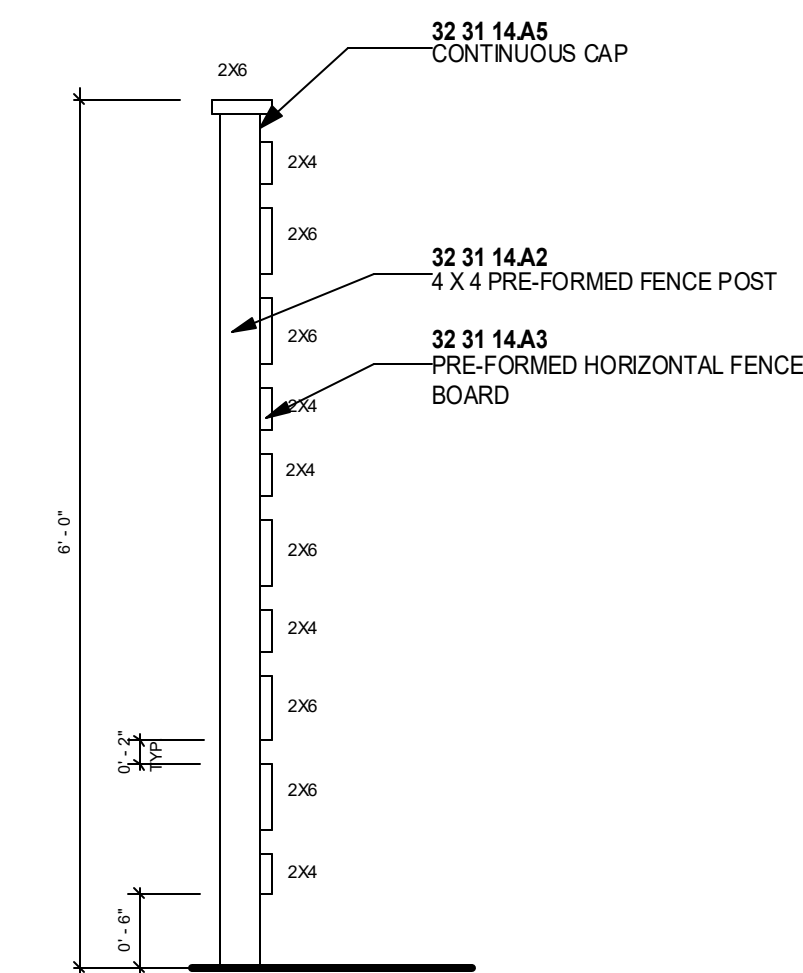
3 DUMPSTER GATES
1/4" = 1'-0"



4 MECHANICAL COURT YARD
3/16" = 1'-0"



5 ENCLOSURE DETAIL
1 1/2" = 1'-0"



6 TYP. FENCE SECTION
3/4" = 1'-0"



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**ARCHITECTURAL
SITE PLAN**

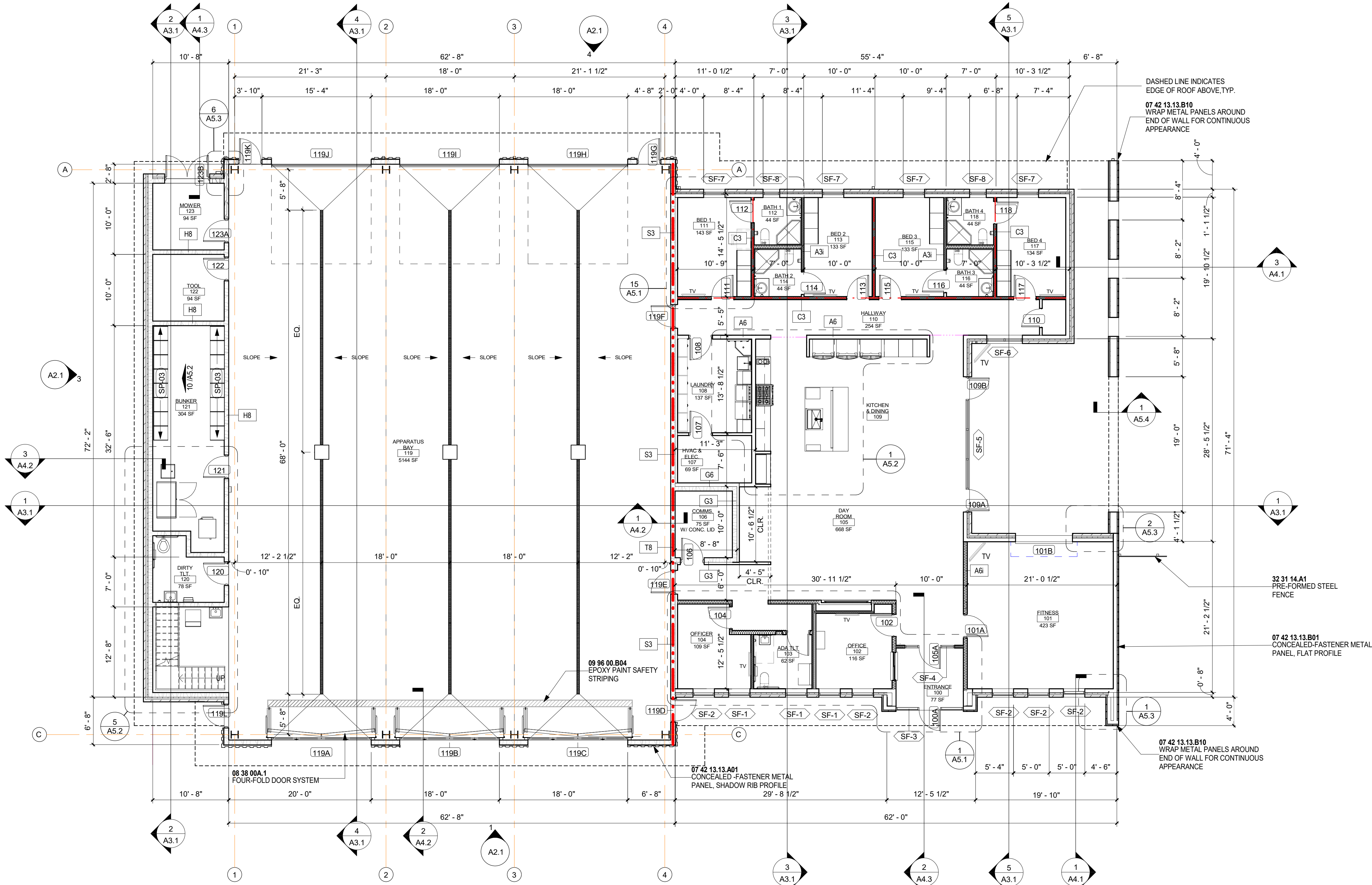
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GENERAL PLAN NOTES	
1	THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS
2	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING ALL ASSOCIATED FEES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SITE & STRUCTURE DURING CONSTRUCTION
4	LOCATE AND MARK ALL UTILITY, SERVICES, AND SYSTEMS LOCATIONS PRIOR TO THE START OF CONSTRUCTION. FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITY COMPONENTS.
5	REFER TO CIVIL DRAWINGS FOR SITE GRADING, PAVING & DETAILS
6	DIMENSIONS SHOWN ARE TO THE NOMINAL FACE OF STUD.
7	REFER TO DOOR / AND WINDOW SCHEDULES FOR SIZE INFORMATION
8	REFER TO PARTITION TYPES FOR INTERIOR WALL ASSEMBLIES
9	SEE ENLARGED PLAN & ELEVATION DRAWINGS FOR ADDITIONAL DIMENSIONING REQUIREMENTS.
10	SEE LIFE SAFETY PLAN FOR RATED WALL LOCATIONS AND REQUIREMENTS
11	PROVIDE 1/4" CONTROL JOINTS IN ALL GYPSUM BOARD ASSEMBLIES AT A SPACING NOT TO EXCEED 20'-0" O.C. MAX. ALIGN WITH DOORFRAMES UNLESS OTHERWISE NOTED.
12	PROVIDE WOOD BLOCKING IN WALLS AS REQUIRED TO INSTALL CABINETS, TVS, TOILET ACCESSORIES, ETC.
13	COORDINATE EQUIPMENT ROUGH OPENING SIZES AND LOCATIONS WITH THE RESPECTIVE EQUIPMENT
14	INSTALL ALL INTERIOR DOORS SUCH THAT THERE IS 4" CLEAR ON THE HINGE SIDE OF THE DOOR TO ADJACENT FINISHED WALL (UNLESS NOTED OTHERWISE)
15	PROVIDE AND INSTALL COMMERCIAL GRADE, 3200 KNOX BOX. COORDINATE WITH OWNER FOR INSTALLATION LOCATION

PLAN LEGEND

- 2-HOUR FIRE RATED WALL
- 1-HOUR FIRE RATED WALL
- BATT INSULATION



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

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REGISTERED ARCHITECT
4/23/24
AR 21512

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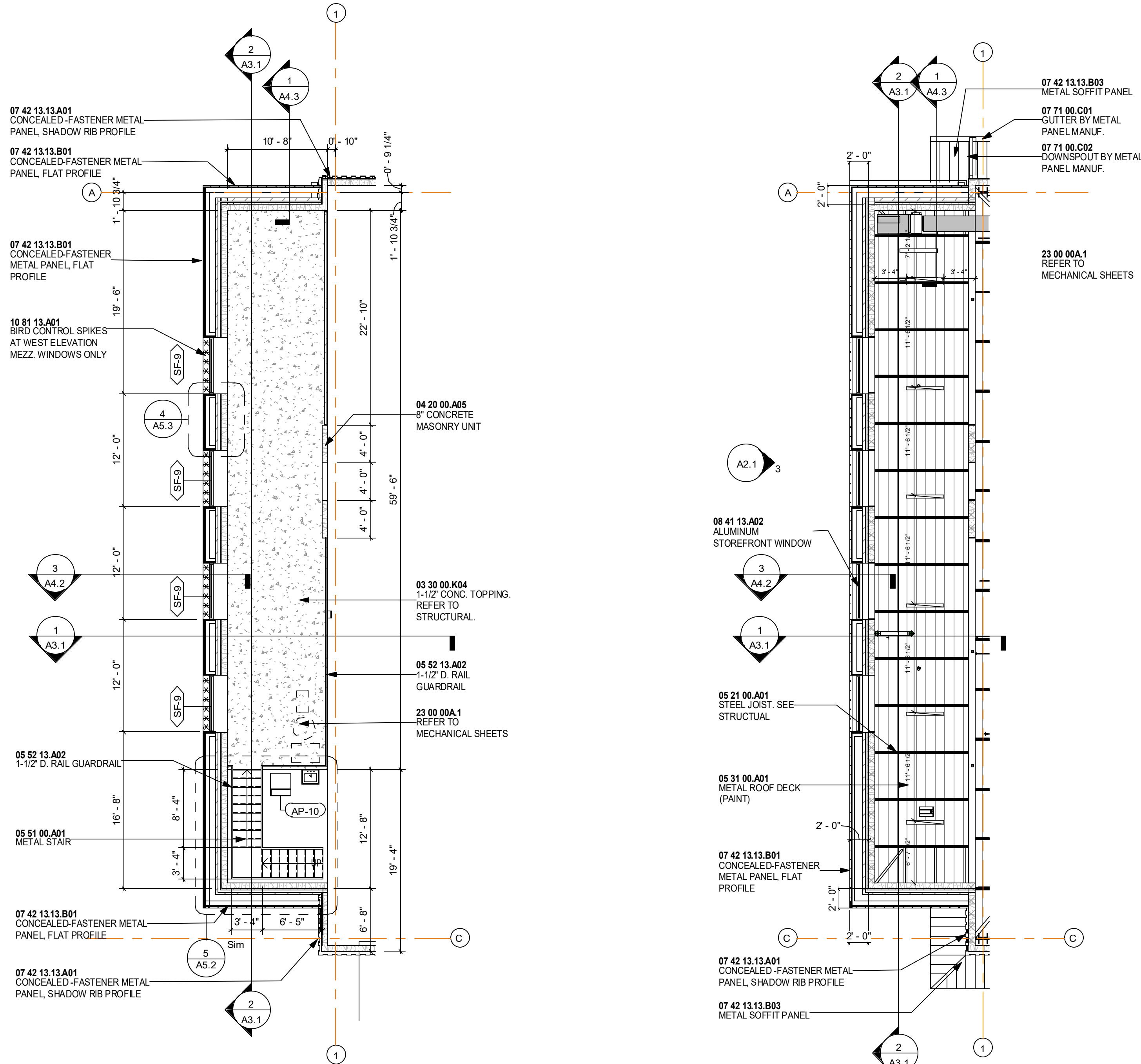
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MEZZANINE
1/8" = 1'-0"

MEZZANINE RCP
1/8" = 1'-0"

GENERAL RCP NOTES

1. ALL LIGHT FIXTURES & HVAC GRILLS SHOWN ON ARCHITECTURAL RCP ARE FOR LOCATION PURPOSES ONLY. REFER TO MEP SHEETS FOR ITEM/FIXTURE INFORMATION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR FIXTURE PLACEMENT
3. WHERE APPLICABLE, FIXTURES LOCATED IN/ OVER SHOWERS SHALL BE CENTERED ON SHOWER BASE
4. IN APPARATUS BAY- ADJUST FIXTURE LOCATION F/ AS REQUIRED (MINALLY) TO ALLOW FOR PROPER OPERATION OF OVER HEAD DOORS
5. IN APPARATUS BAY OVERHEAD HEATERS- REFER TO MANUFACTURE CLEARANCES AND INSTALL LIGHTS ACCORDINGLY. IF REQUIRED CLEARANCE DIFFERS GREATLY FROM RCP DIMENSIONS, COORDINATE WITH ARCHITECT PRIOR TO INSTALL.

GENERAL PLAN NOTES

- 1 THE GENERAL CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS
- 2 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING ALL ASSOCIATED FEES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 3 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURING THE SITE & STRUCTURE DURING CONSTRUCTION
- 4 LOCATE AND MARK ALL UTILITY, SERVICES, AND SYSTEMS LOCATIONS PRIOR TO THE START OF CONSTRUCTION. FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITY COMPONENTS.
- 5 REFER TO CIVIL DRAWINGS FOR SITE GRADING, PAVING & DETAILS
- 6 DIMENSIONS SHOWN ARE TO THE NOMINAL FACE OF STUD.
- 7 REFER TO DOOR / AND WINDOW SCHEDULES FOR SIZE INFORMATION
- 8 REFER TO PARTITION TYPES FOR INTERIOR WALL ASSEMBLIES
- 9 SEE ENLARGED PLAN & ELEVATION DRAWINGS FOR ADDITIONAL DIMENSIONING REQUIREMENTS
- 10 SEE LIFE SAFETY PLAN FOR RATED WALL LOCATIONS AND REQUIREMENTS
- 11 PROVIDE 1/4" CONTROL JOINTS IN ALL GYPSUM BOARD ASSEMBLIES AT A SPACING NOT TO EXCEED 20'-0" O.C. MAX. ALIGN WITH DOORFRAMES UNLESS OTHERWISE NOTED.
- 12 PROVIDE WOOD BLOCKING IN WALLS AS REQUIRED TO INSTALL CABINETS, TV'S, TOILET ACCESSORIES, ETC.
- 13 COORDINATE EQUIPMENT ROUGH OPENING SIZES AND LOCATIONS WITH THE RESPECTIVE EQUIPMENT
- 14 INSTALL ALL INTERIOR DOORS SUCH THAT THERE IS 4" CLEAR ON THE HINGE SIDE OF THE DOOR TO ADJACENT FINISHED WALL (UNLESS NOTED OTHERWISE)
- 15 PROVIDE AND INSTALL COMMERCIAL GRADE, 3200 KNOX BOX. COORDINATE WITH OWNER FOR INSTALLATION LOCATION

RCP LEGEND

	2X2 ACOUSTICAL PANEL CEILING		LED HIGH BAY LIGHT FIXTURE
	GYPSUM BOARD, PAINT		RECESSED LED LIGHT FIXTURE
	MOISTURE RESISTANT GYPSUM BOARD, PAINT		RECESSED CAN FLUORESCENT LIGHT FIXTURE
	EXPOSED STEEL JOISTS & DECK ABOVE - PAINT		WALL MOUNT LED VANITY FIXTURE
	METAL SOFFIT PANEL		FLUSH MOUNT LED CANISTER FIXTURE
	TJI & PLYWOOD DECKING W/ CONC TOPPER, PAINT.		LED PANEL LIGHT
	CONC. SLAB ON METAL DECK		EXTERIOR WALL PACK LIGHT FIXTURE
	2 X 4 WOOD SOFFIT (INTERIOR)		WINDOW ROLLER SHADE
	INFRARED HEATER SUSPENDED FROM CEILING		FAN COIL
	WALL MOUNTED FLAT SCREEN TV (O.F.O.I.); PROVIDE POWER & CABLE @ CEILING. CEILING TV MOUNT - HEAVY DUTY, UNIVERSAL, TILT, AND SWIVEL. SUPPORTS SCREEN SIZES UP TO 70" & 175 LBS. (SANUS LC1A OR APPROVED EQUAL)		EXIT SIGN
	AIR SUPPLY/ RETURN. SEE MECHANICAL		CEILING HEIGHT ABOVE FINISH FLOOR
	EXHAUST FAN (APPARATUS BAY)		1/2-HOUR FIRE RATED WALL
	EXHAUST FAN		2-HOUR RATED FIRE WALL
			CEILING FAN
			LINEAR SLOT DIFFUSER



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**MEZZANINE
PLAN & RCP**

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**REFLECTED
CEILING PLANS**

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A1.3

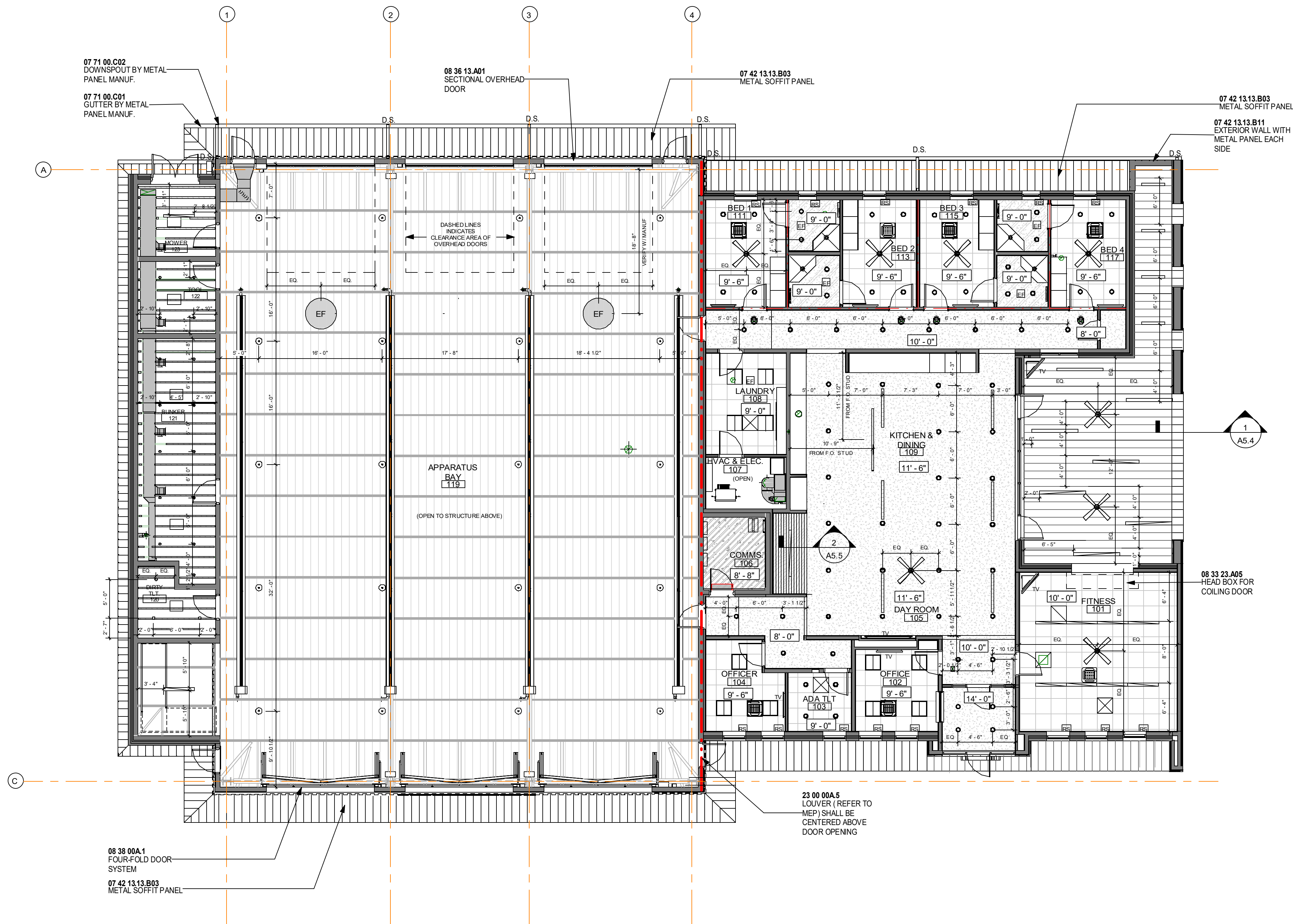
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GENERAL RCP NOTES

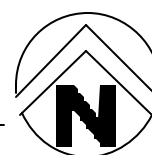
1. ALL LIGHT FIXTURES & HVAC GRILLS SHOWN ON ARCHITECTURAL RCP ARE FOR LOCATION PURPOSES ONLY. REFER TO MEP SHEETS FOR ITEM/FIXTURE INFORMATION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR FIXTURE PLACEMENT
3. WHERE APPLICABLE, FIXTURES LOCATED IN/ OVER SHOWERS SHALL BE CENTERED ON SHOWER BASE
4. IN APPARATUS BAY, ADJUST FIXTURE LOCATION IF/ AS REQUIRED (MINALLY) TO ALLOW FOR PROPER OPERATION OF OVER HEAD DOORS
5. IN APPARATUS BAY OVERHEAD HEATERS- REFER TO MANUFACTURE CLEARANCES AND INSTALL LIGHTS ACCORDINGLY. IF REQUIRED CLEARANCE DIFFERS GREATLY FROM RCP DIMENSIONS, COORDINATE WITH ARCHITECT PRIOR TO INSTALL.
6. REFER TO MEP PLANS FOR SMOKE DETECTOR LOCATIONS.

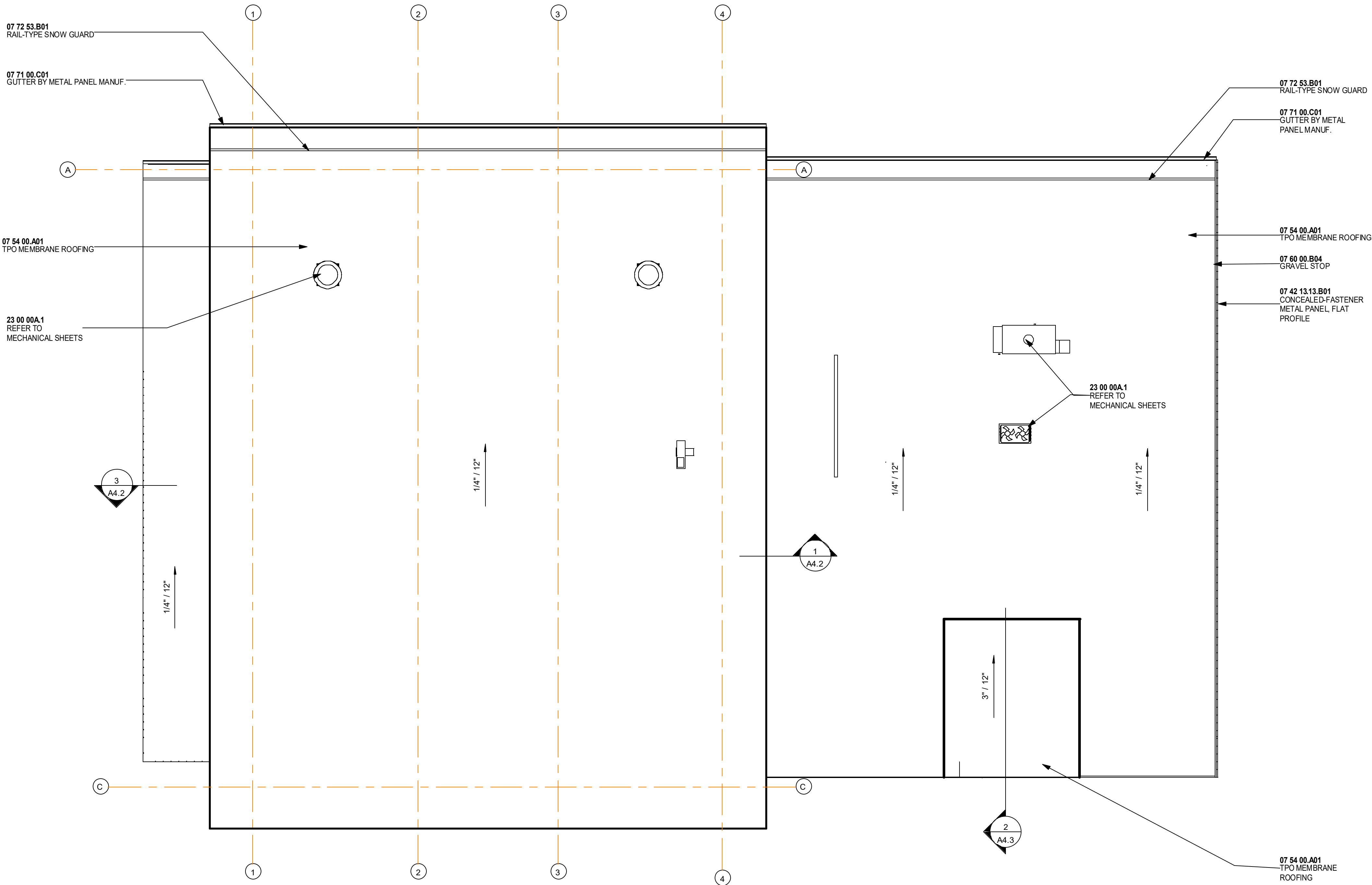
RCP LEGEND

	2X2 ACOUSTICAL PANEL CEILING		LED HIGH BAY LIGHT FIXTURE
	GYPSUM BOARD, PAINT		RECESSED LED LIGHT FIXTURE
	MOISTURE RESISTANT GYPSUM BOARD, PAINT		RECESSED CAN FLUORESCENT LIGHT FIXTURE
	EXPOSED STEEL JOISTS & DECK ABOVE - PAINT		WALL MOUNT LED VANITY FIXTURE
	METAL SOFFIT PANEL		FLUSH MOUNT LED CANISTER FIXTURE
	TJI & PLYWOOD DECKING W/ CONC TOPPER, PAINT.		LED PANEL LIGHT
	CONC. SLAB ON METAL DECK		EXTERIOR WALL PACK LIGHT FIXTURE
	2 X 4 WOOD SOFFIT (INTERIOR)		WINDOW ROLLER SHADE
	INFRARED HEATER SUSPENDED FROM CEILING		FAN COIL
	WALL MOUNTED FLAT SCREEN TV (O.F.O.I.); PROVIDE POWER & CABLE @ CEILING. CEILING TV MOUNT - HEAVY DUTY, UNIVERSAL, TILT, AND SWIVEL, SUPPORTS SCREEN SIZES UP TO 70" & 175 LBS. (SANUS LC1A OR APPROVED EQUAL)		EXIT SIGN
	AIR SUPPLY/ RETURN. SEE MECHANICAL		CEILING HEIGHT ABOVE FINISH FLOOR
	EXHAUST FAN (APPARATUS BAY)		1/2-HOUR FIRE RATED WALL
	EXHAUST FAN		2-HOUR RATED FIRE WALL
			CEILING FAN
			LINEAR SLOT DIFFUSER



1 REFLECTED CEILING PLAN
1/8" = 1'-0"





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

GENERAL ROOF PLAN NOTES

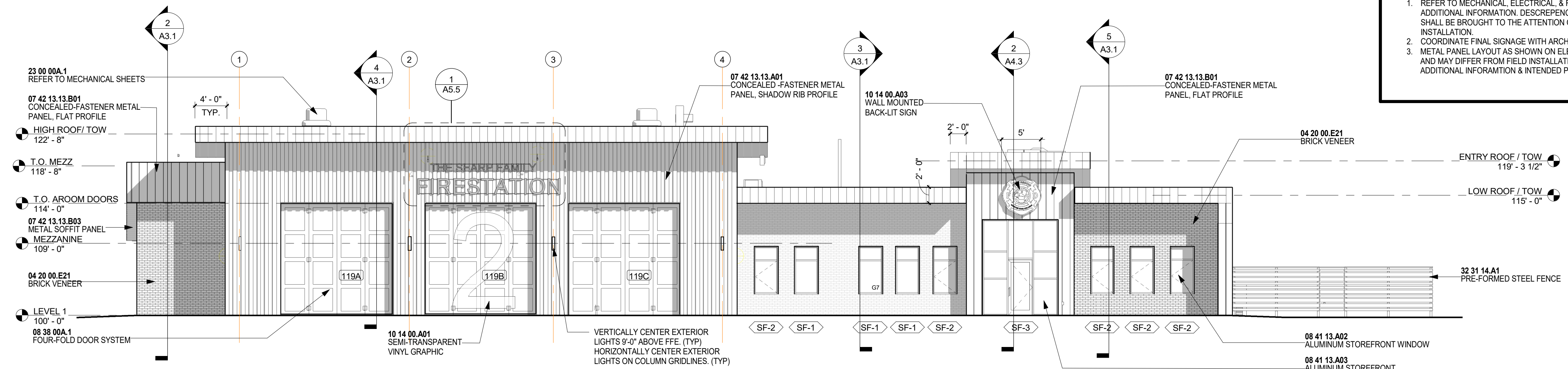
1. REFER TO MECHANICAL, ELECTRICAL, & FIRE PROTECTION SHEETS FOR ADDITIONAL INFORMATION. DESCRENCIES BETWEEN MEP & ARCHITECTURAL SHEETS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.
2. MAINTAIN 4" MIN. RIGID INSULATION AT ALL DRAIN LOCATIONS.
3. ALL CORNERS OR CHANGES IN DIRECTION OF PARAPET / GRAVEL STOP SHALL BE FULLY MITERED & WELDED ON TOP & LEGS.
4. ALL ROOF FLASHING, PARAPET TRIM, CAPS, ETC. SHALL BE INSTALLED PER MANUF. DETAILS.
5. PROVIDE EXPANSION JOINTS WHERE NECESSARY.

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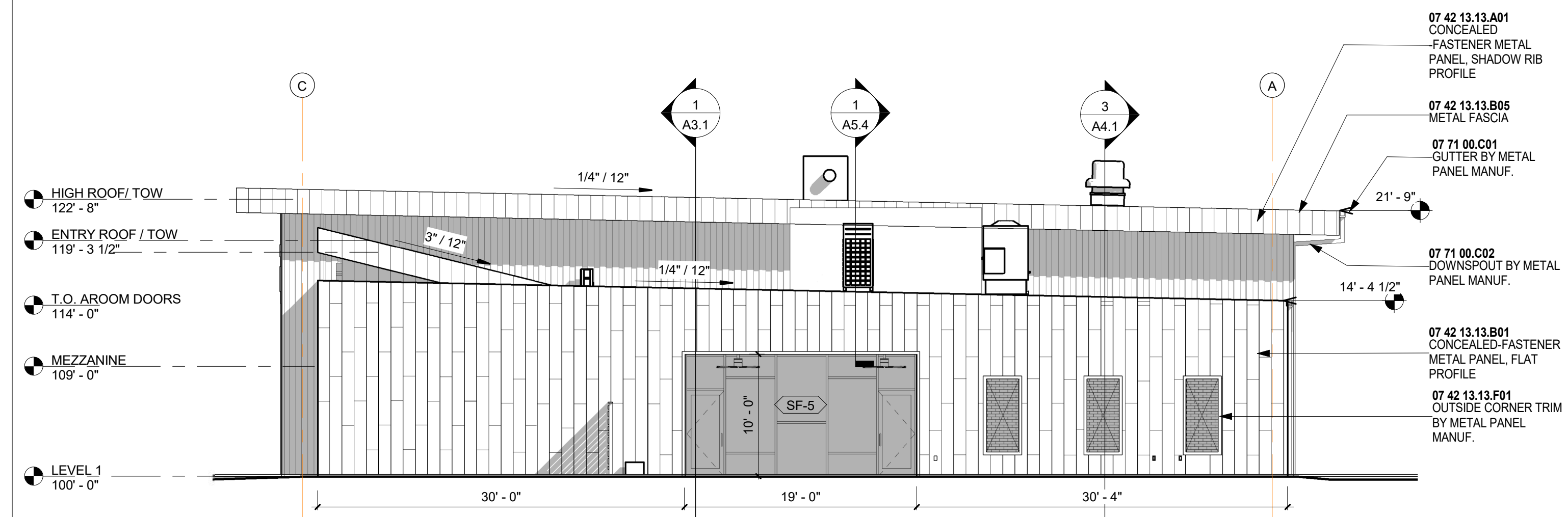
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ROOF PLAN

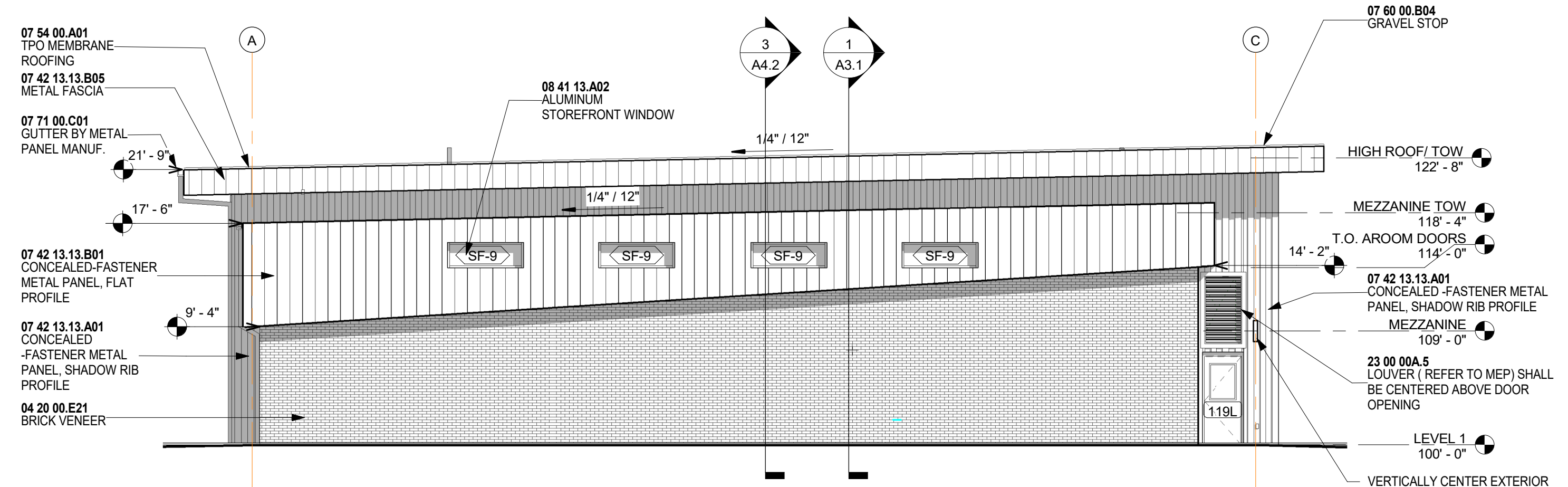
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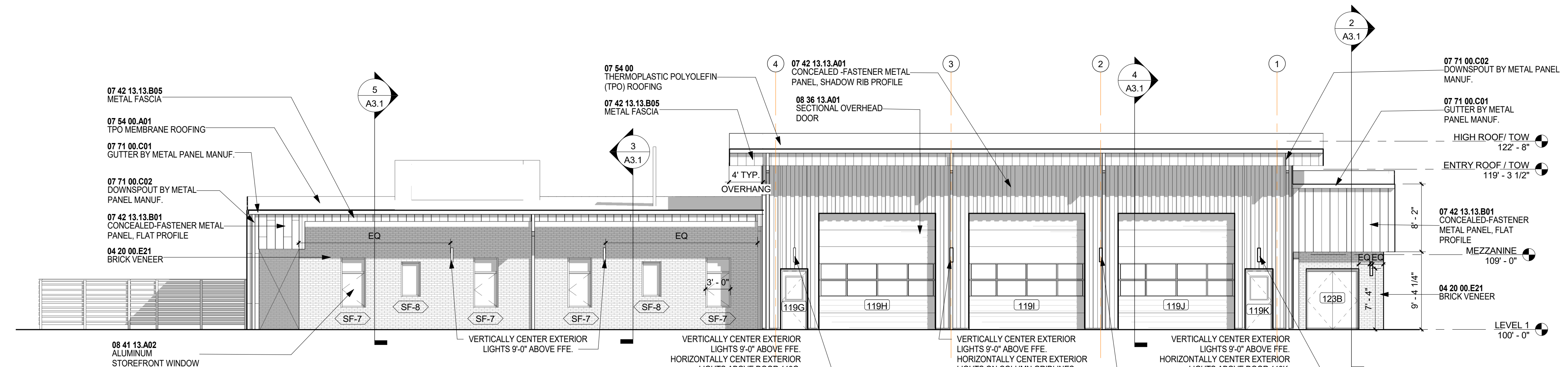
1 SOUTH ELEVATION
1/8" = 1'-0"



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



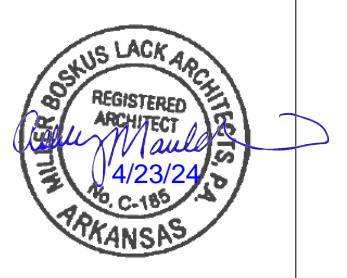
3 WEST ELEVATION
1/8" = 1'-0"



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

GENERAL ELEVATION NOTES

1. REFER TO MECHANICAL, ELECTRICAL, & FIRE PROTECTION SHEETS FOR ADDITIONAL INFORMATION. DISCREPANCIES BETWEEN MEP & ARCHITECTURAL SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.
2. COORDINATE FINAL SIGNAGE WITH ARCHITECT AND OWNER.
3. METAL PANEL LAYOUT AS SHOWN ON ELEVATIONS ARE FOR REFERENCE ONLY AND MAY DIFFER FROM FIELD INSTALLATION. REFER TO PLAN DETAILS FOR ADDITIONAL INFORMATION & INTENDED PLACEMENT.



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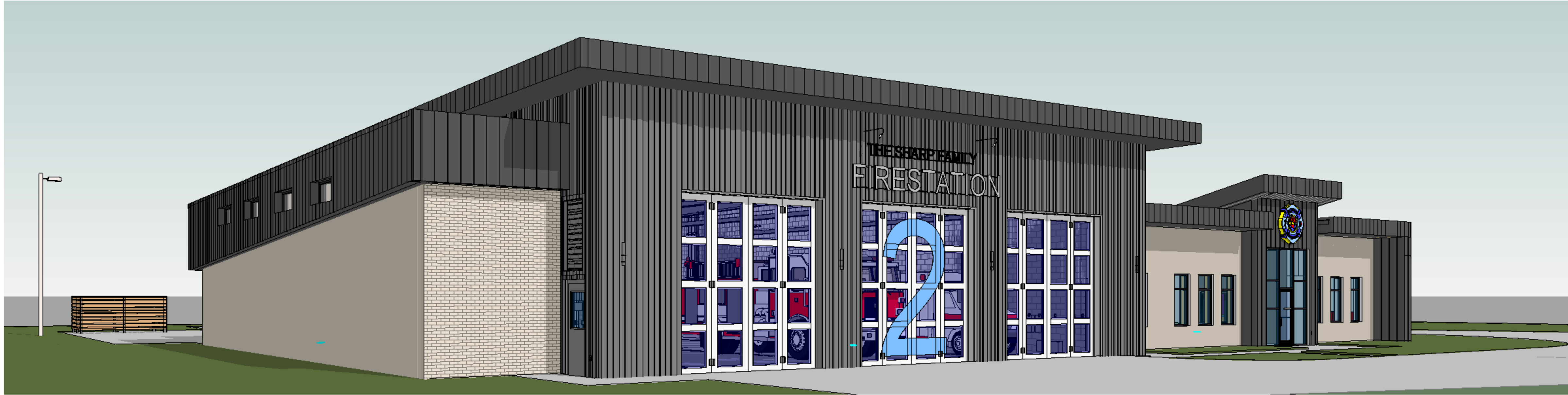
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**BUILDING
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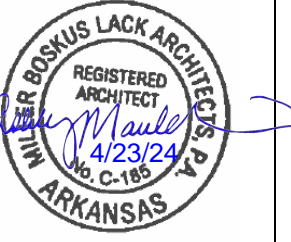
① SE PERSPECTIVE



② SW PERSPECTIVE



③ REAR PERSPECTIVE



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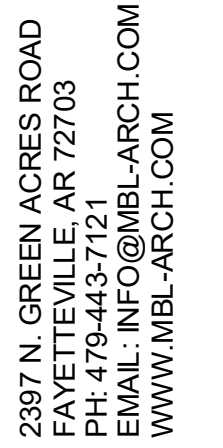
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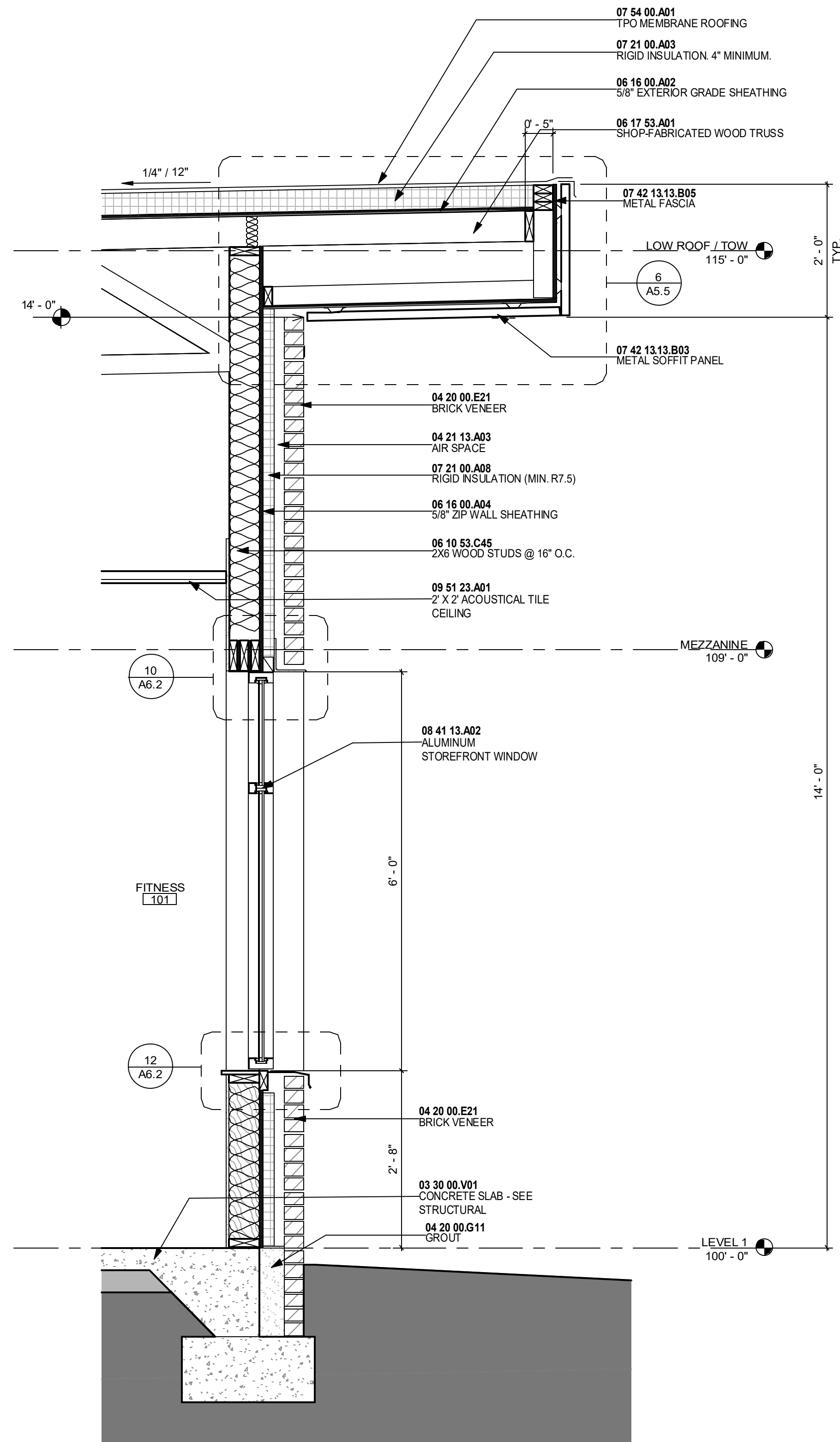


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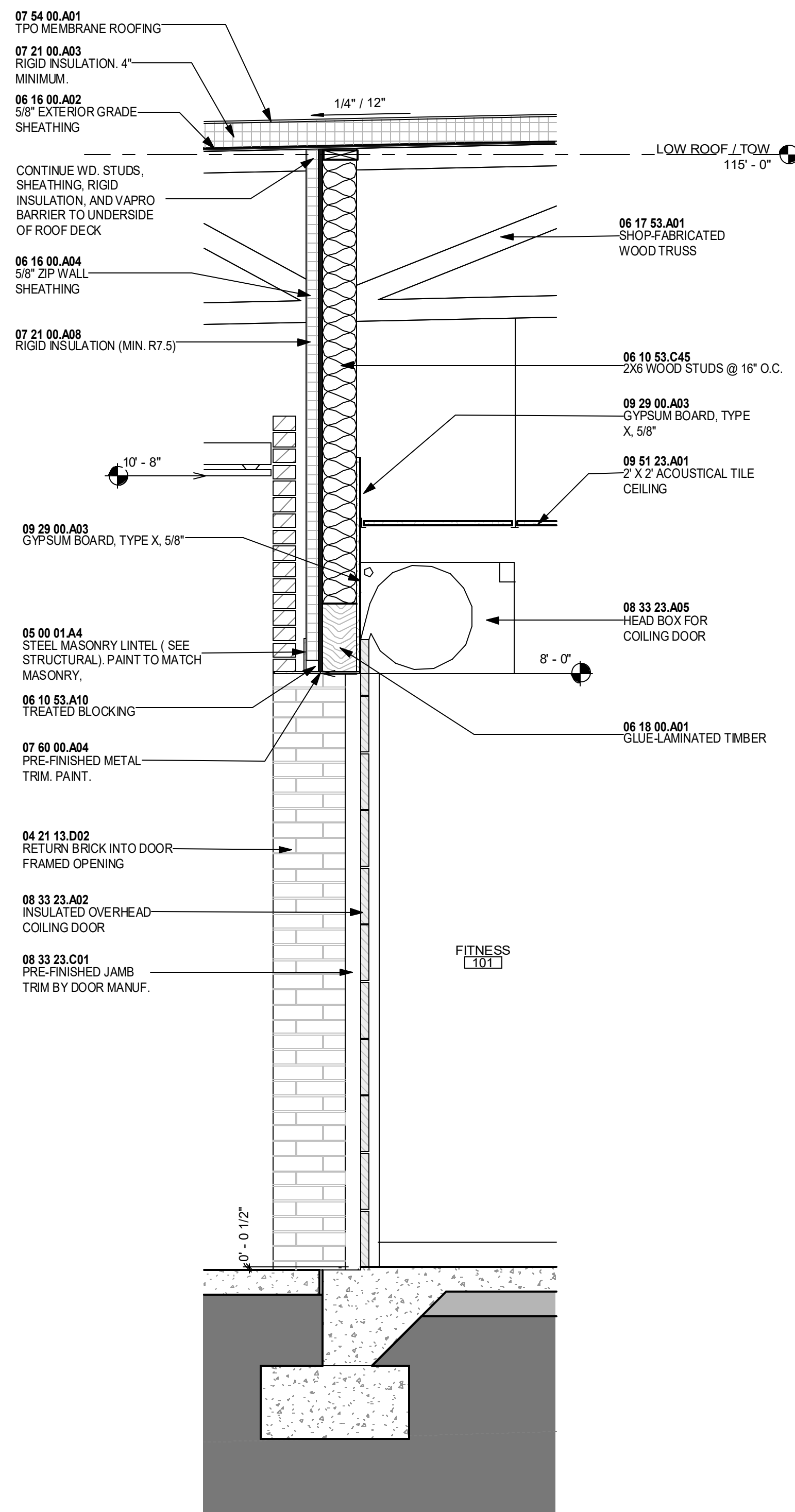
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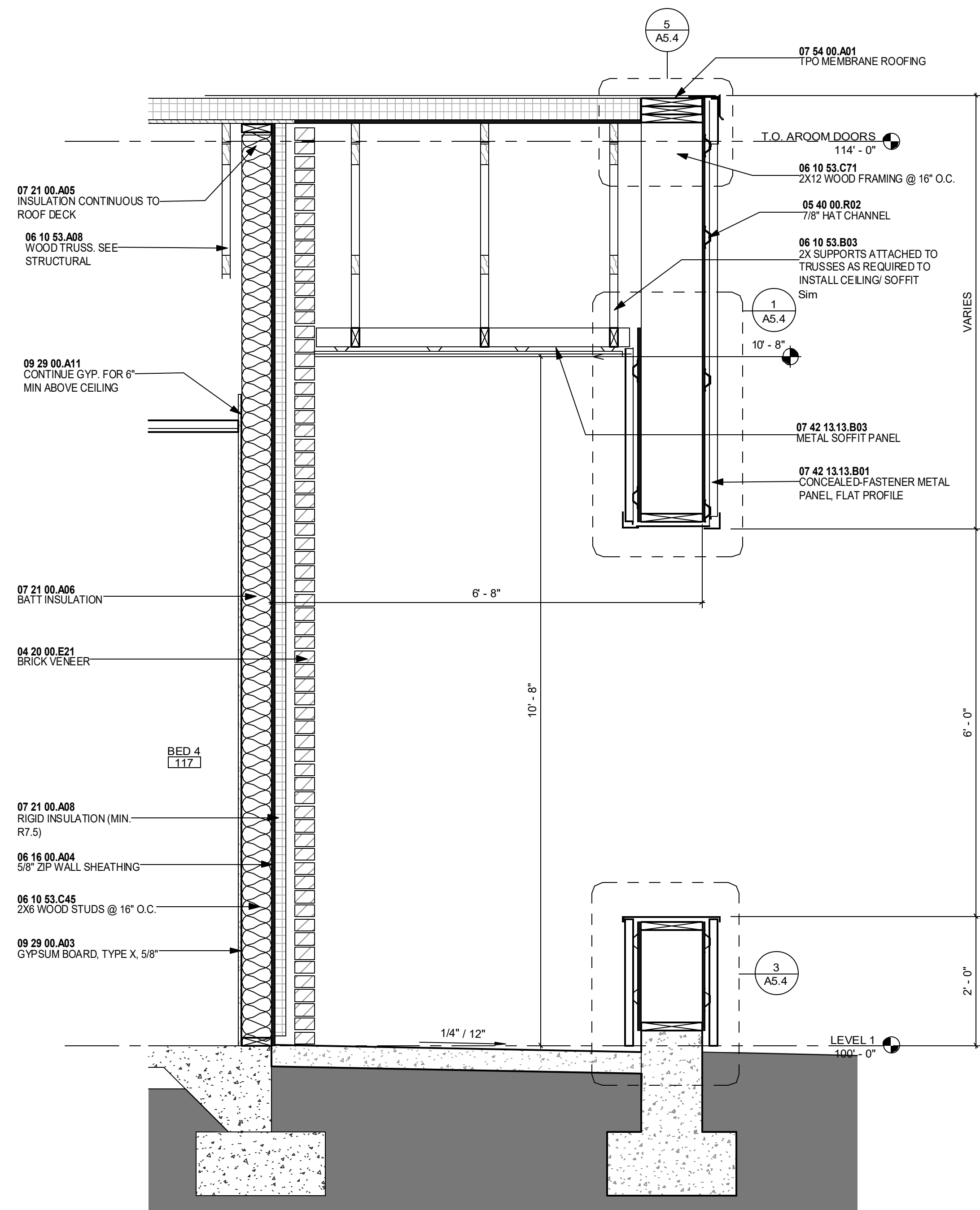




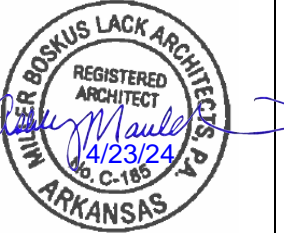
1 WALL SECTION A
3/4" = 1'-0"



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



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



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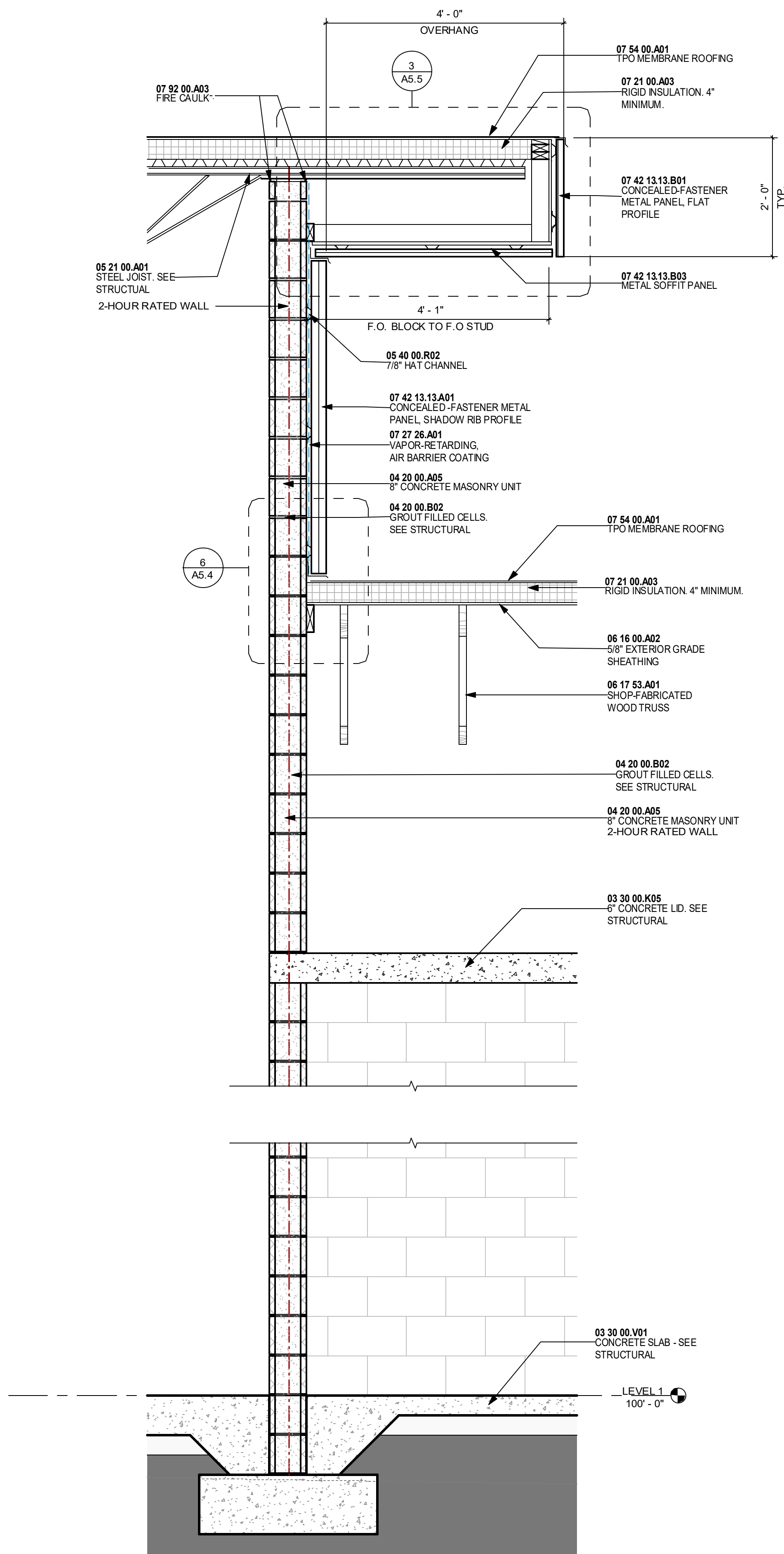
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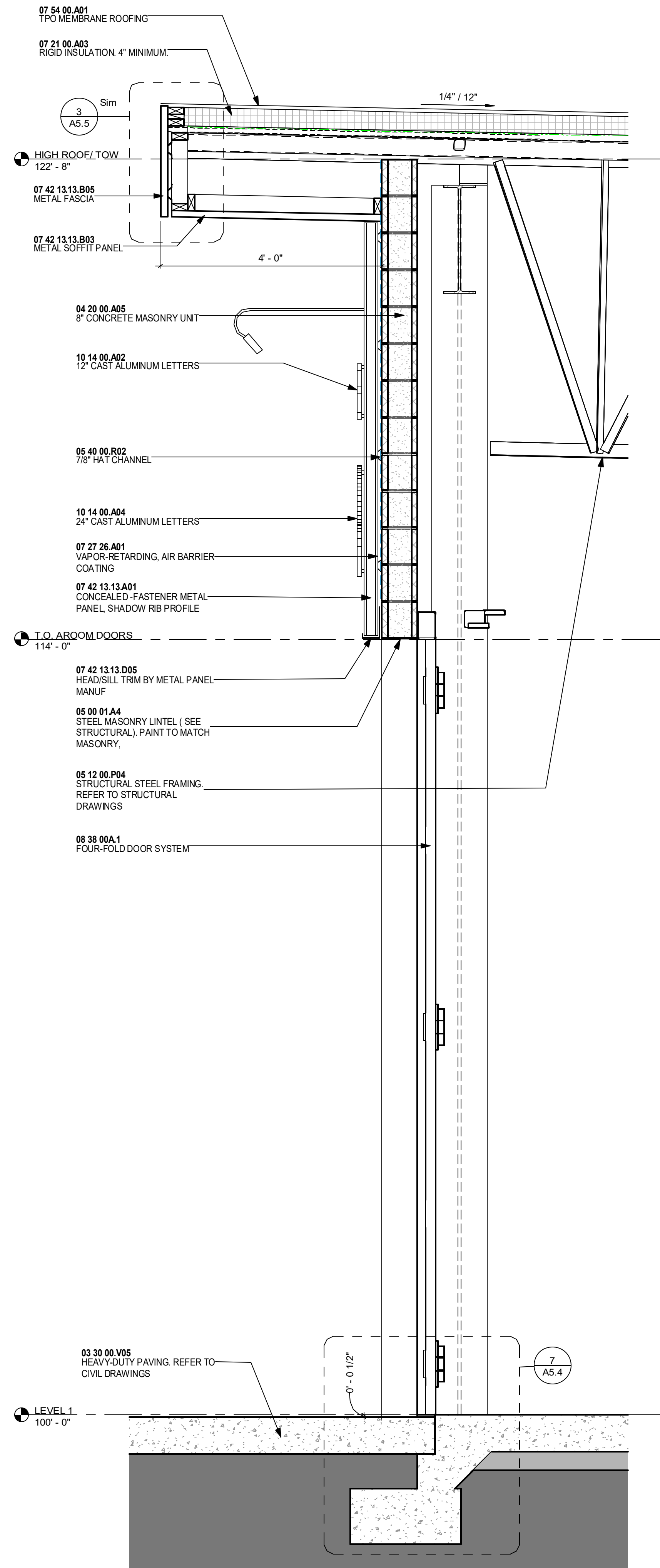
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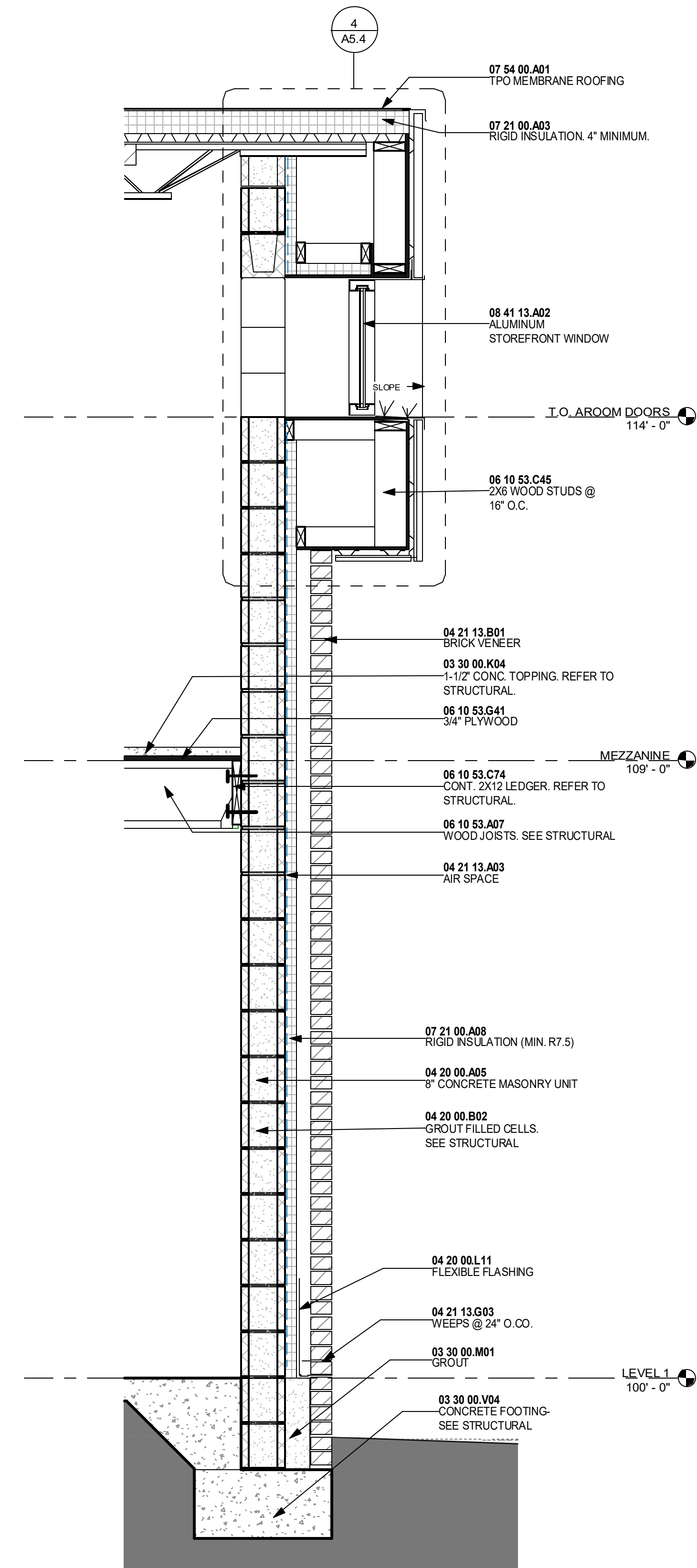
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1 WALL SECTION D
3/4" = 1'-0"



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



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



2007 N. GREEN ACRES ROAD
FAYETTEVILLE, AR 72703
PH: 479-443-7121
EMAIL: INFO@MBL-ARCH.COM
WWW.MBL-ARCH.COM



CITY OF MOUNTAIN HOME, AR
FIRE STATION #2
2030 HIGHWAY 62 E.
MOUNTAIN HOME, AR 72653



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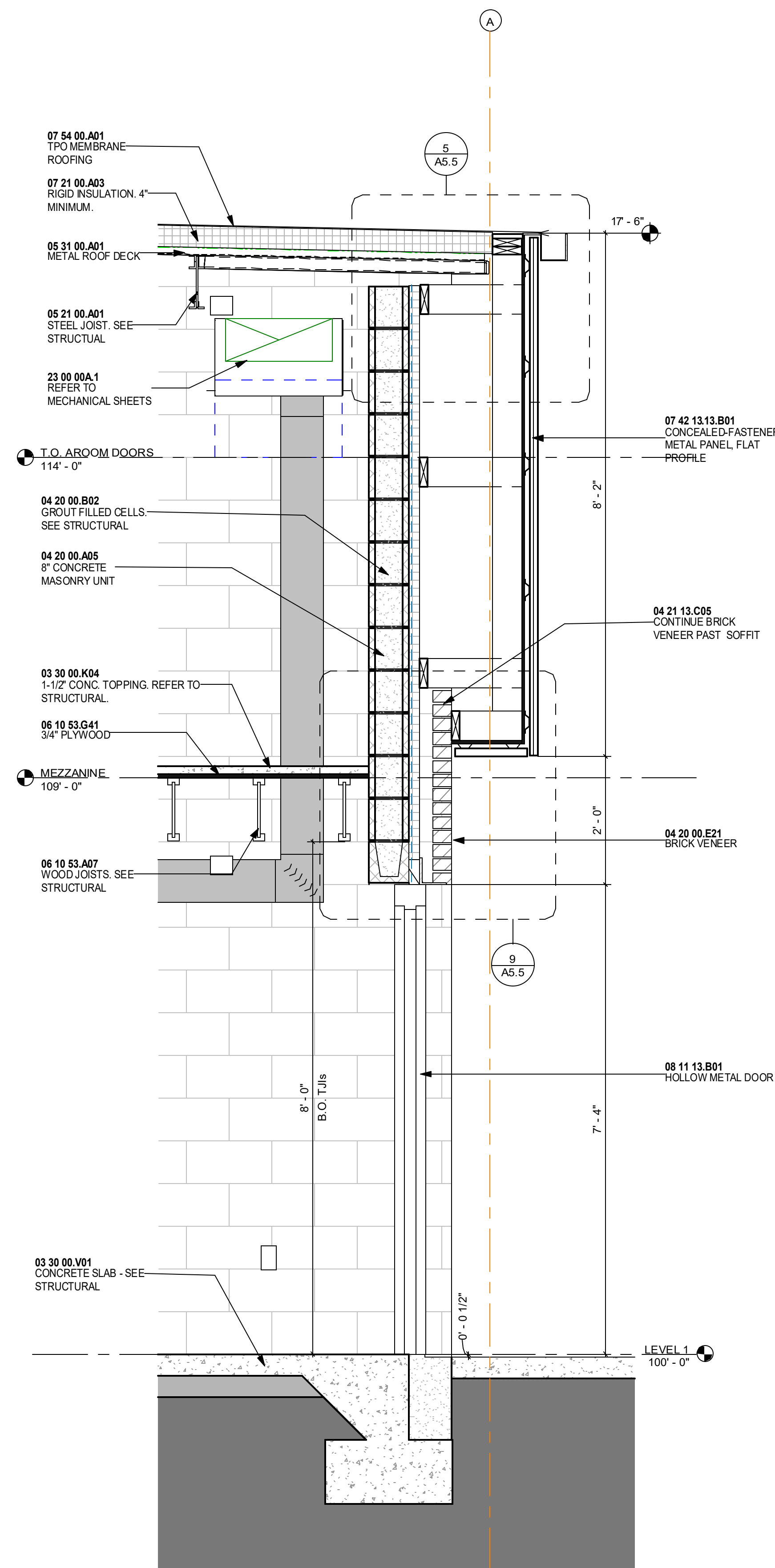
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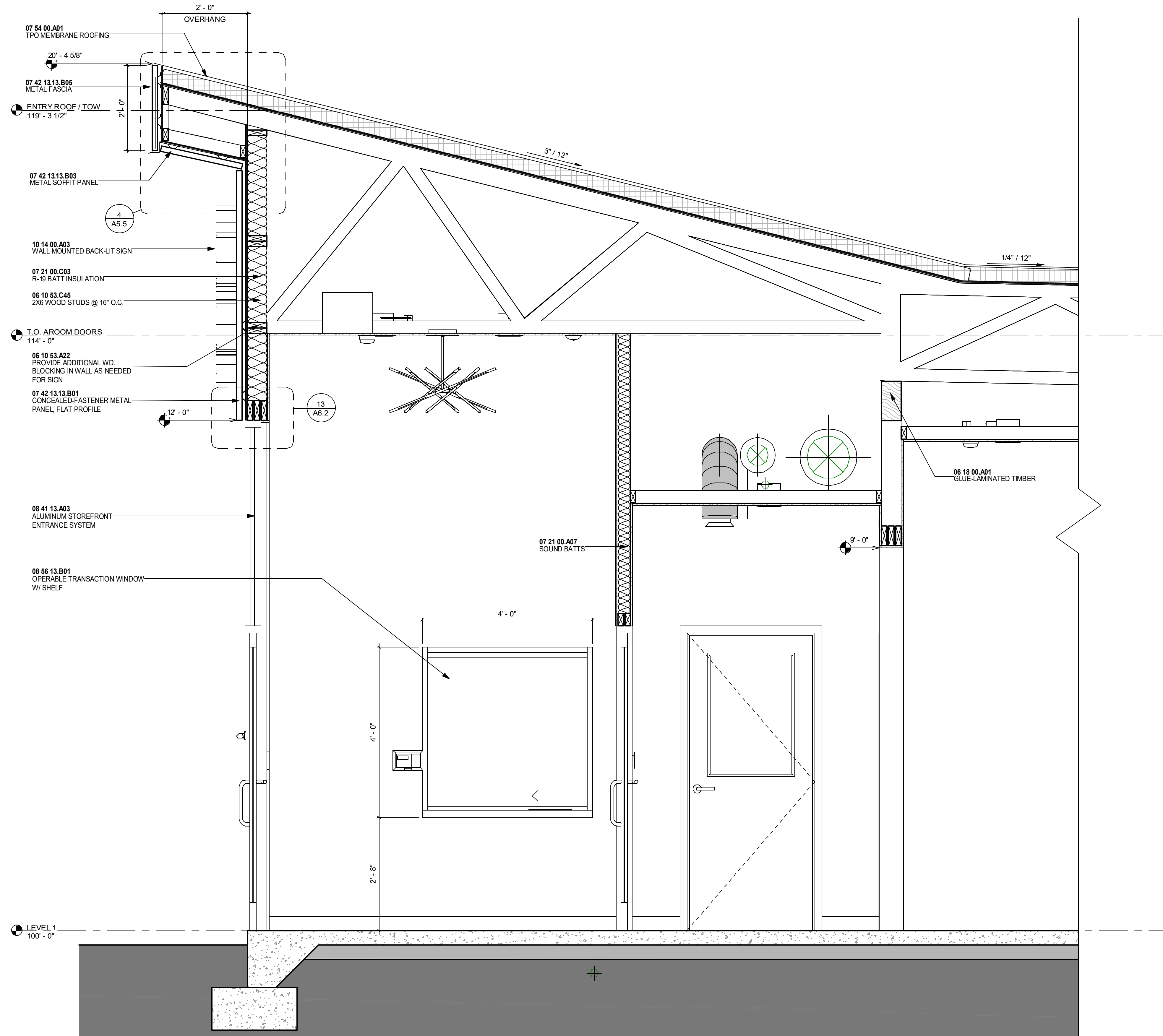
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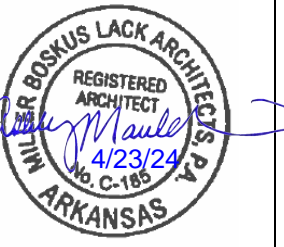
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1 WALL SECTION G
3/4" = 1'-0"



2 ENTRANCE SECTION
3/4" = 1'-0"



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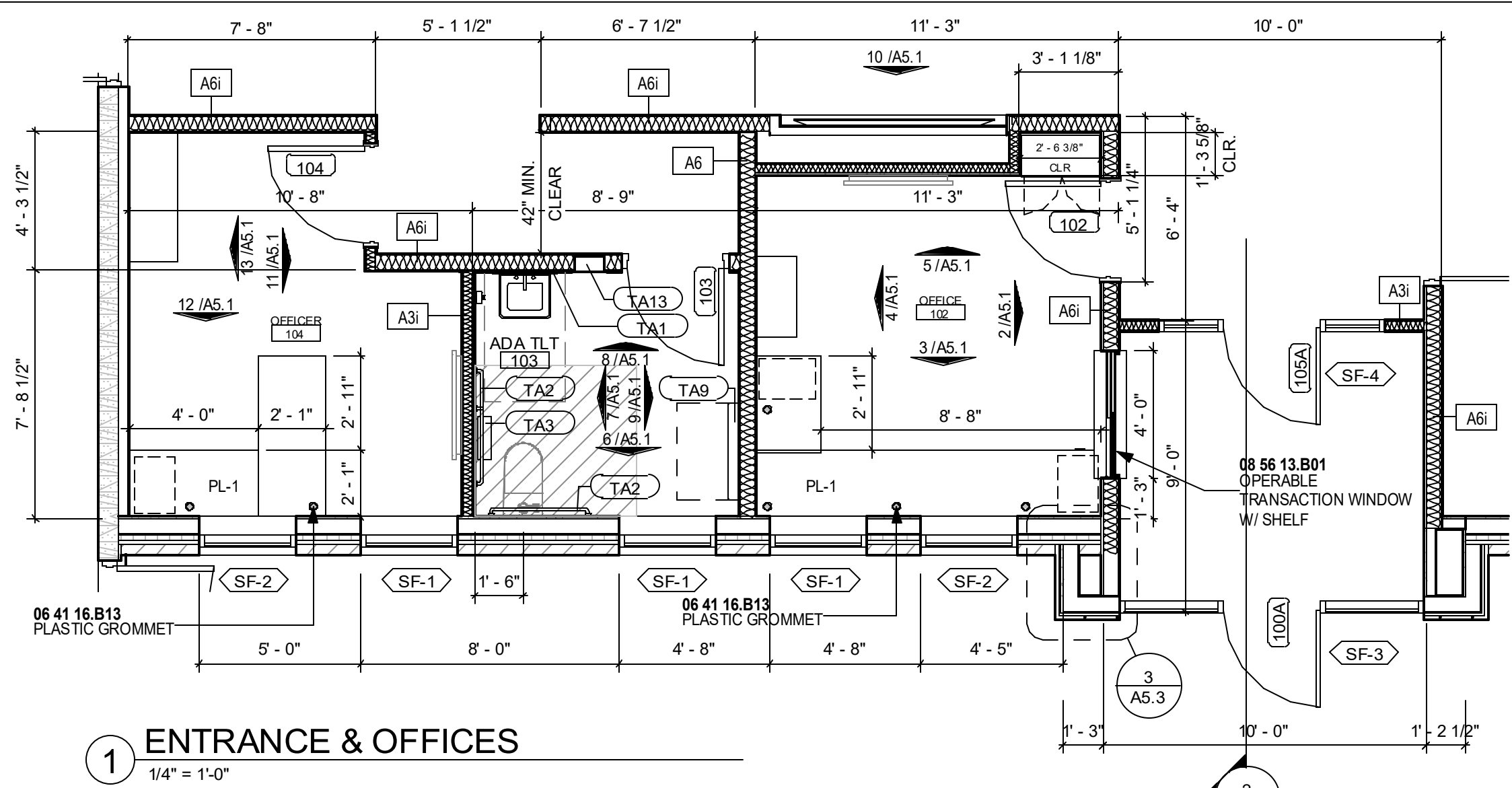
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WALL SECTIONS

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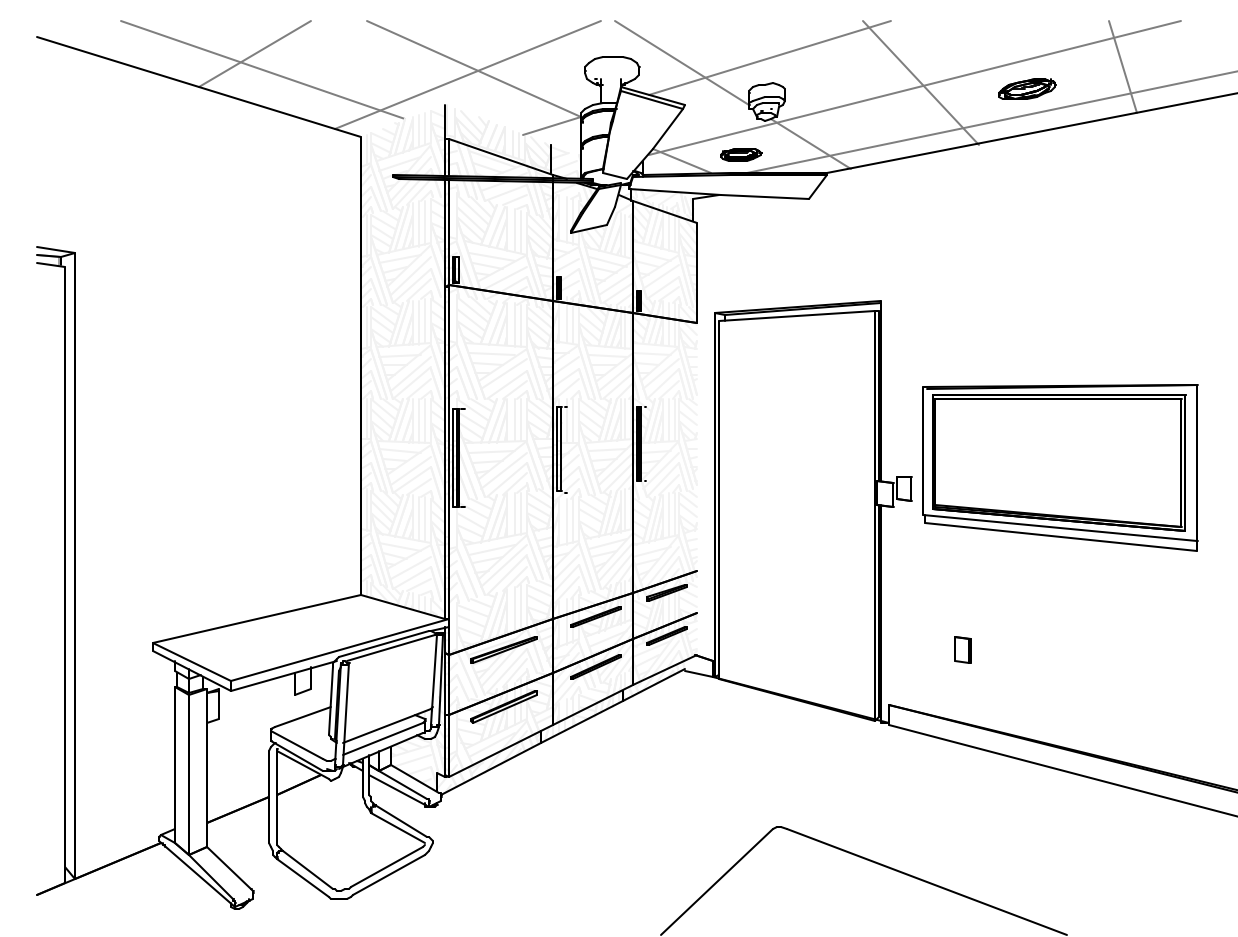
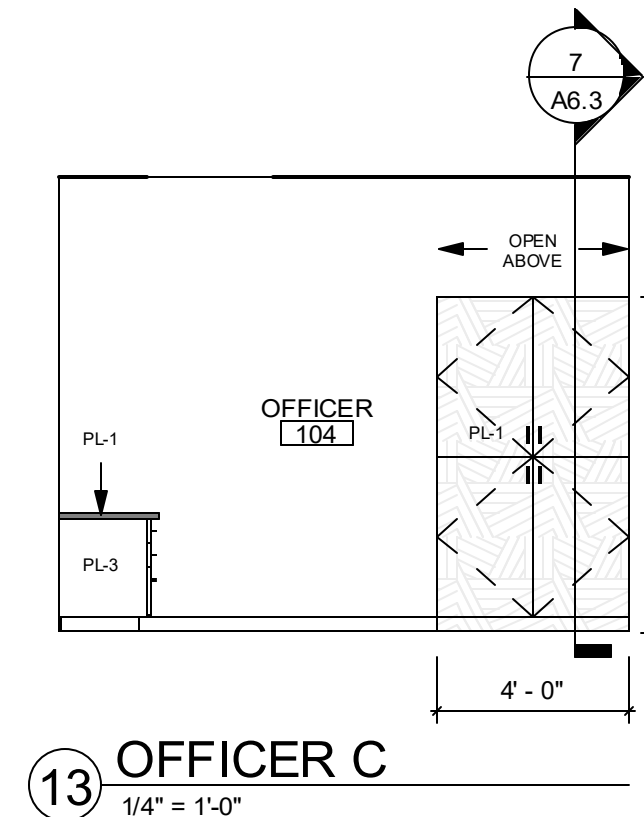
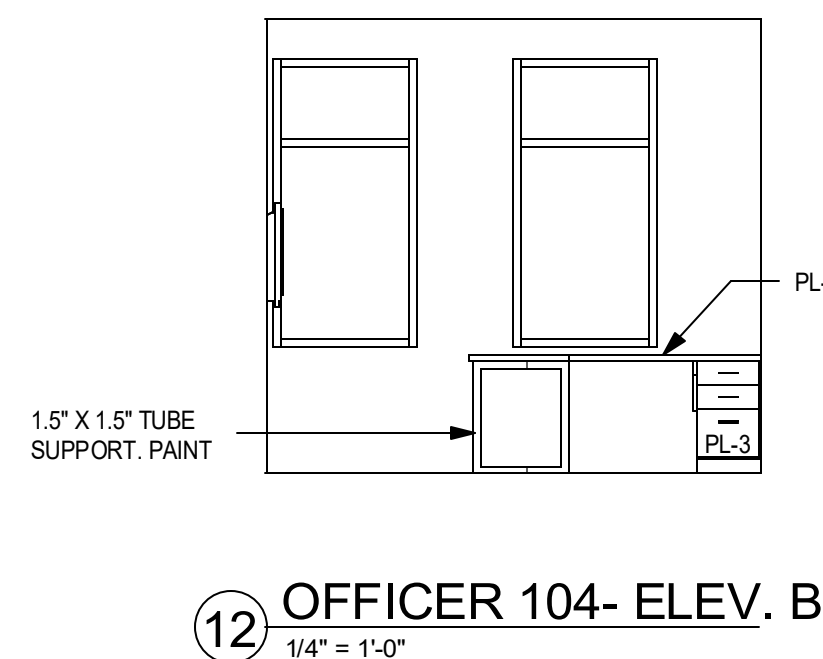
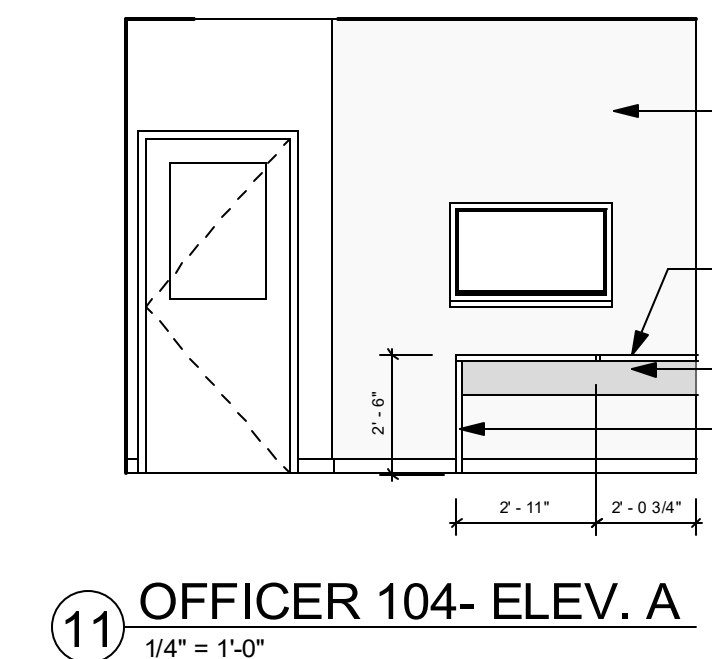
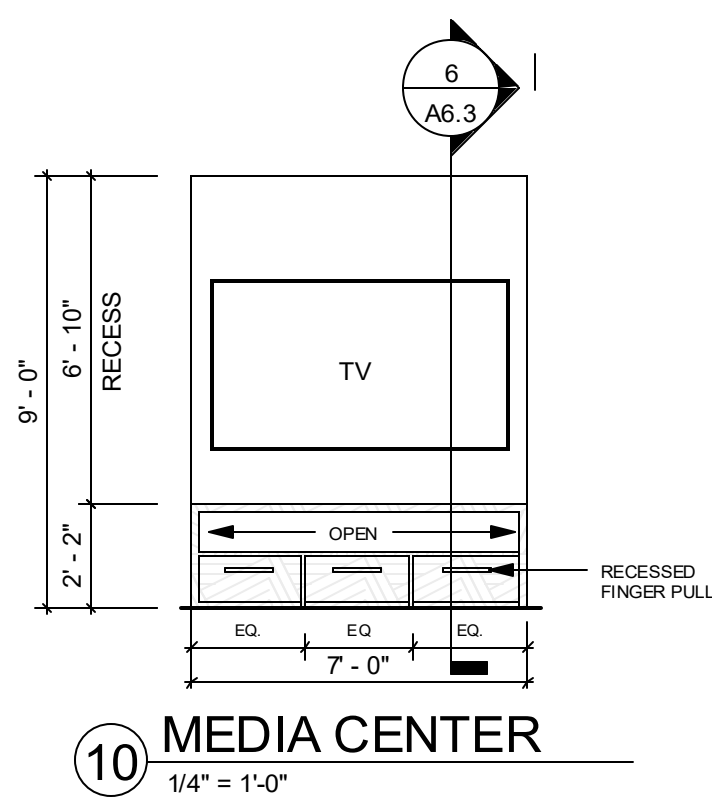
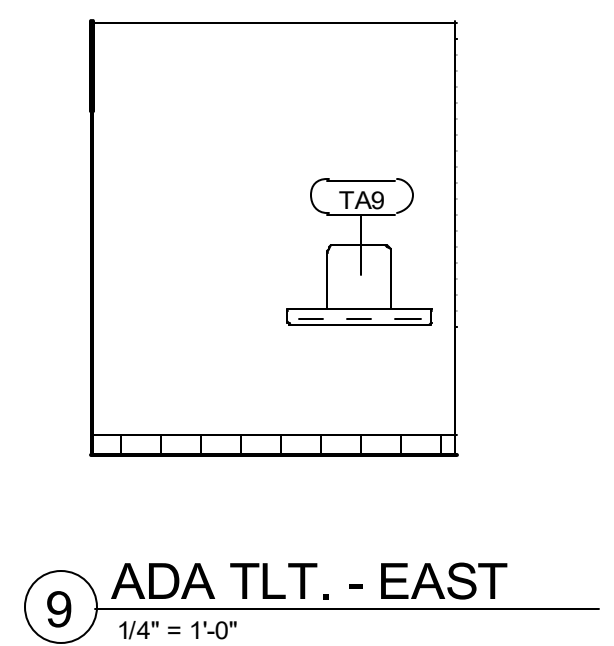
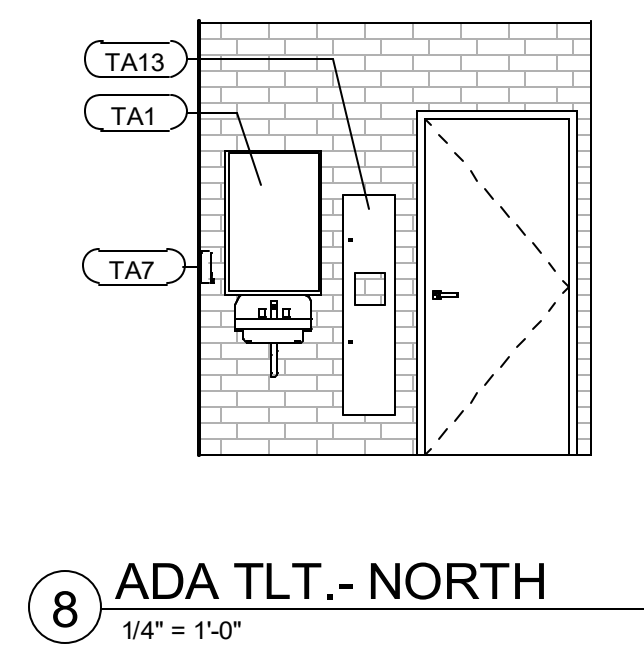
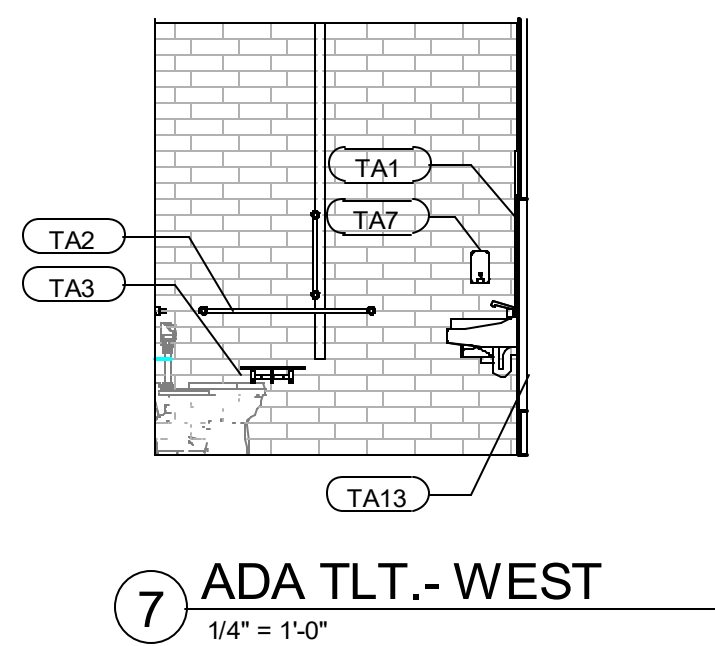
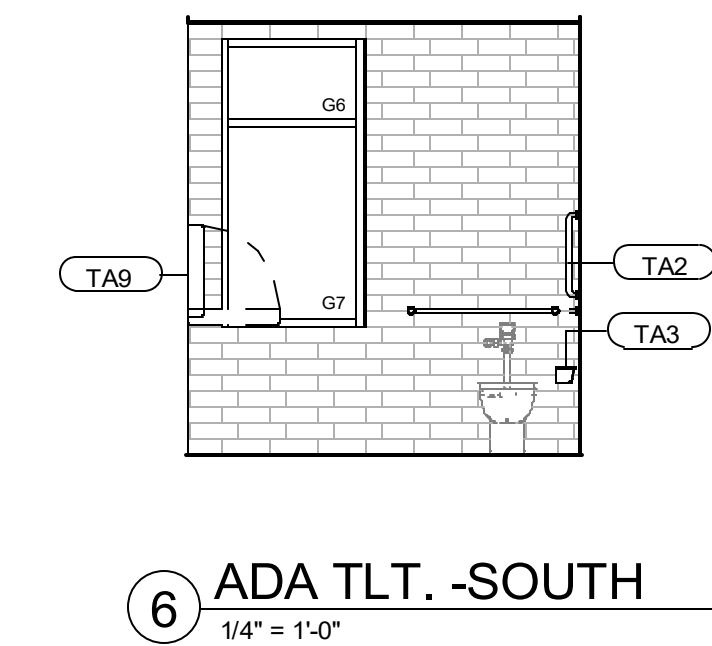


2 OFFICE 102- ELEV. A
1/4" = 1'-0"

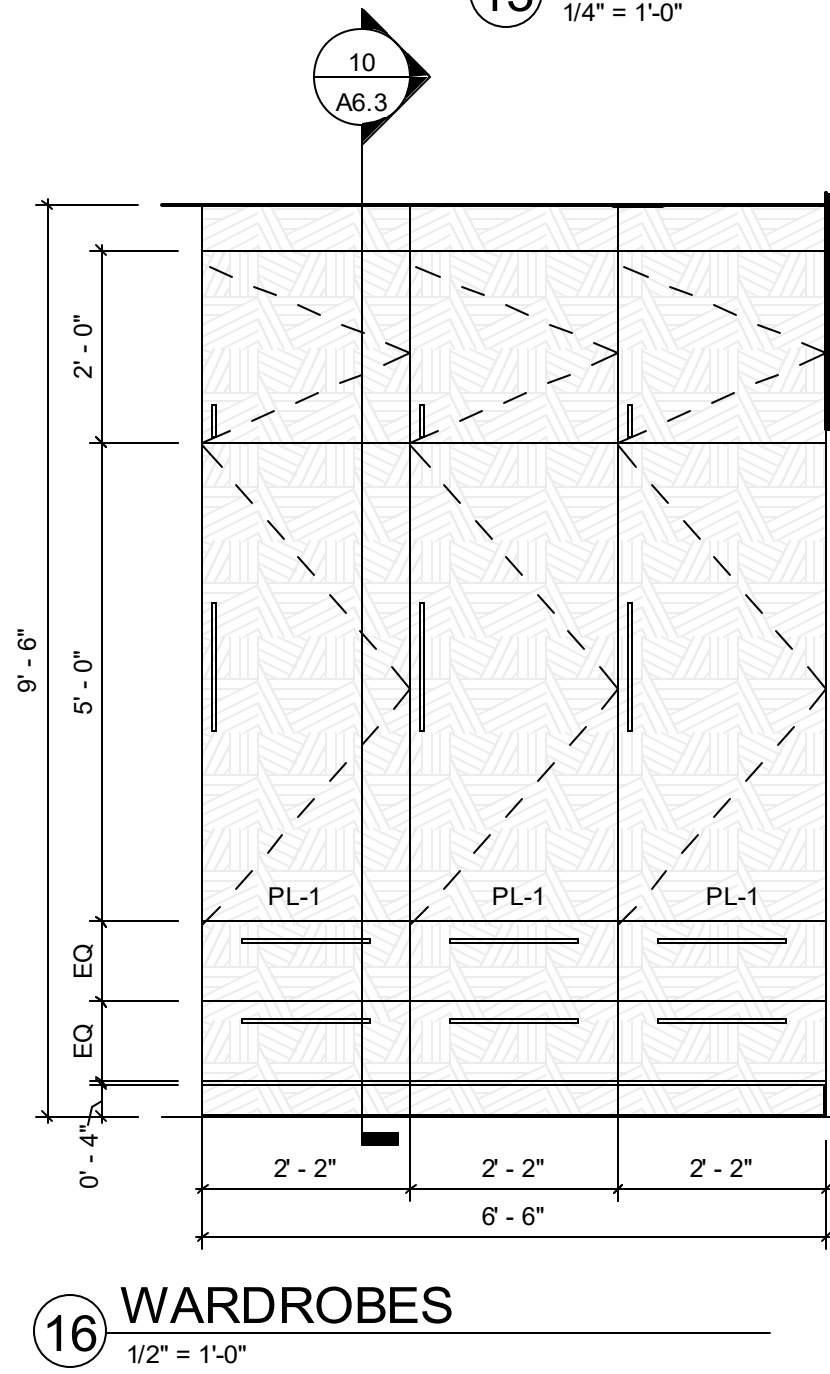
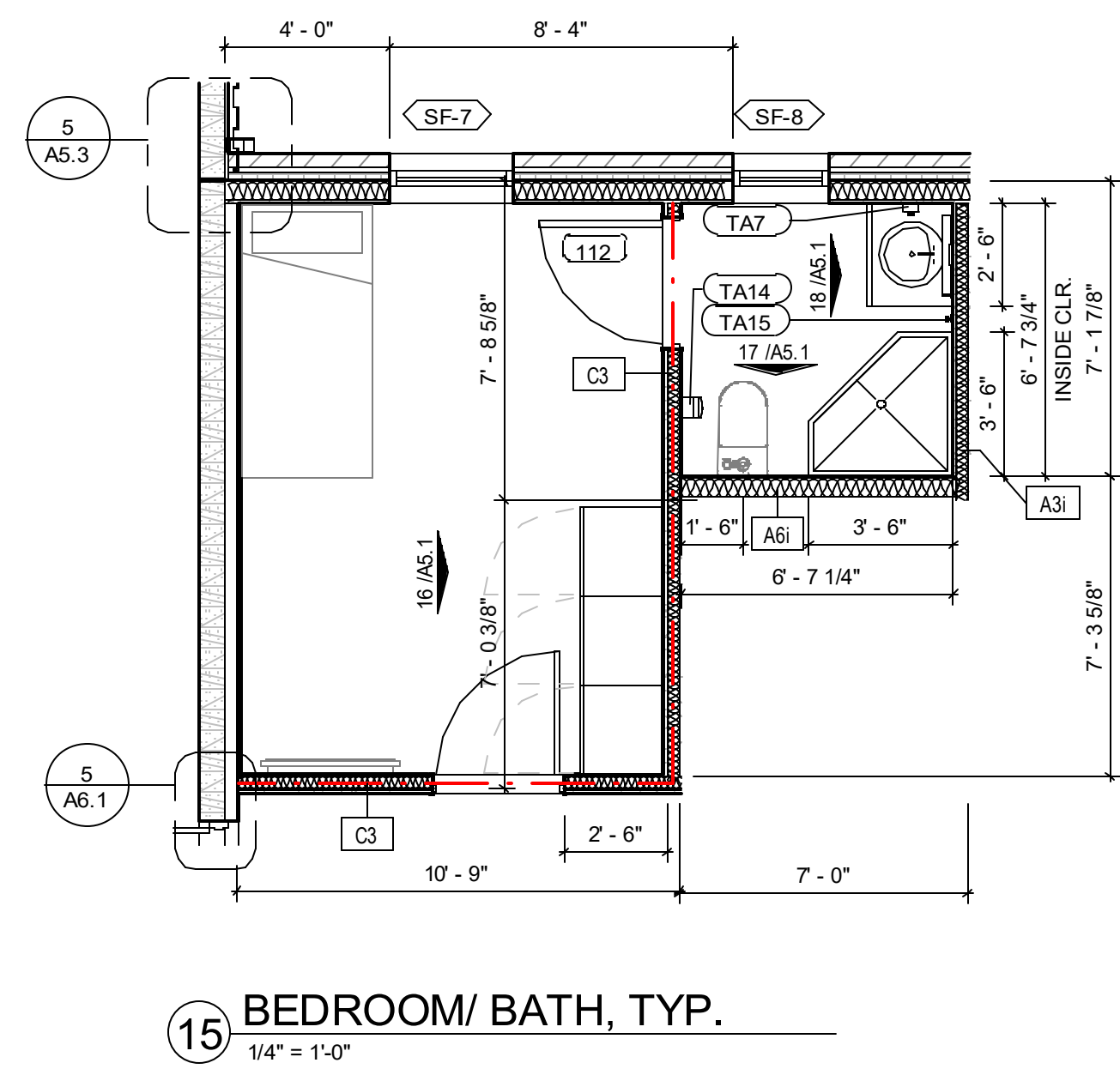
3 OFFICE 102- ELEV. B
1/4" = 1'-0"

4 OFFICE 102- ELEV. C
1/4" = 1'-0"

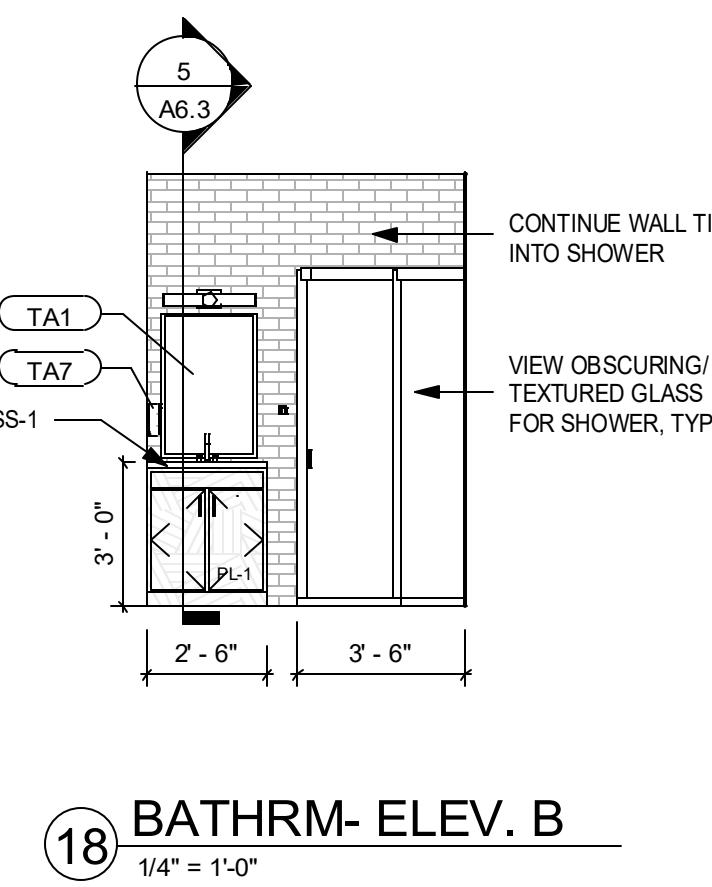
5 OFFICE 102- ELEV. D
1/4" = 1'-0"



14 TYP. BEDROOM VIEW

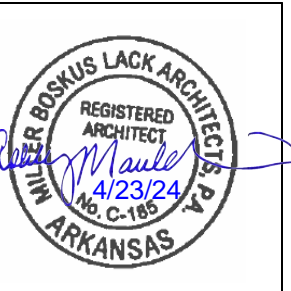


17 BATHRM- ELEV. A
1/4" = 1'-0"



TOILET ACCESSORIES			
MARK	DESCRIPTION	MANUF.	MODEL
TA1	Bobrick B-290 2436 Welded Frame Mirror	Bobrick	B-290 2436
TA2	Grab Bars, 36" back, 42" side, 18" vert.	Bobrick	B-5806
TA3	Surface-Mounted Toilet Tissue Dispenser and Utility Shelf	Bobrick	B-2840
TA5	24" h. STAINLESS STEEL MOPSINK BACKSPLASH	-	-
TA6	Bobrick B-3949 Classic Series Surface Mounted Convertible Combination Towel and Waste Unit	Bobrick	B-3949
TA7	ClassicSeries® Surface-Mounted Soap Dispenser	Bobrick	B-2111
TA9	Baby Changing Station	BIMsmth Generics	Baby Changing Station
TA11	Bobrick B-223 x 36 Surface Mounted Mop and Broom Holder	Bobrick Washroom Equipment, Inc.	B-223 x 36
TA12			
TA13	TrimLineSeries Recessed Paper Towel Dispenser And Waste Receptacle	Bobrick	B-3803
TA14	Bobrick B-4288 Contura Series Surface Mounted Multi-roll Toilet Tissue Dispenser	Bobrick	B-4288
TA15	Robe Hook	Bobrick	B-6717

APPLIANCE & SPECIALTY ITEMS				
MARK	DESCRIPTION	MANUF.	MODEL	COMMENTS
AP-1	REFRIGERATOR W/ ICE & WATER DISPENSER	WHIRLPOOL	WRF555SDFZ	
AP-2	REFRIGERATOR	WHIRLPOOL	WRF535SWHZ	PROVIDE 2
AP-3	6-BURNER GAS RANGE, 36"	FISHER & PAYKEL	OR36SDG4X1	
AP-4	EXHAUST HOOD			SEE MEP
AP-5	MICROWAVE	WHIRLPOOL	WMCS0522H	
AP-6	COFFEE POT, 12 CUP, 120V	BUNN	AXIOMP-DV-3	PROVIDE 2 SERVERS
AP-7	DISHWASHER	MAYTAG	MD69959SKZ	
AP-8	WASHING MACHINE	MAYTAG	MW7232HW	
AP-9	DRYER	MAYTAG	MD6630H	
AP-10	ICE MAKER	MAINITOWOC	IT0420	PROVIDE ASSOCIATED BIN
SP-01	EXTRACTOR	UNI-MAC	UCT040	
SP-02	PPE DRYING CABINET	UNI-MAC		
SP-03	GEAR LOCKERS, STANDARD WALL MOUNT	GEAR GRID	24" X 24" X 72"	



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**ENLARGED
PLANS &
ELEVATIONS**

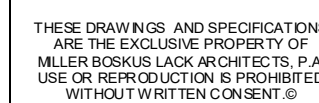
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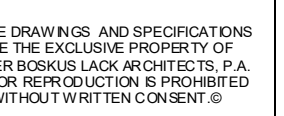
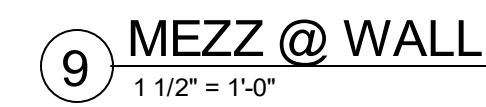
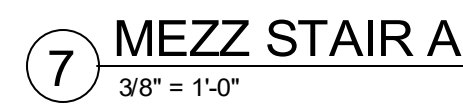
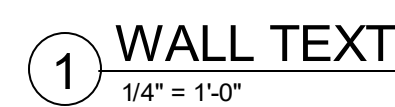


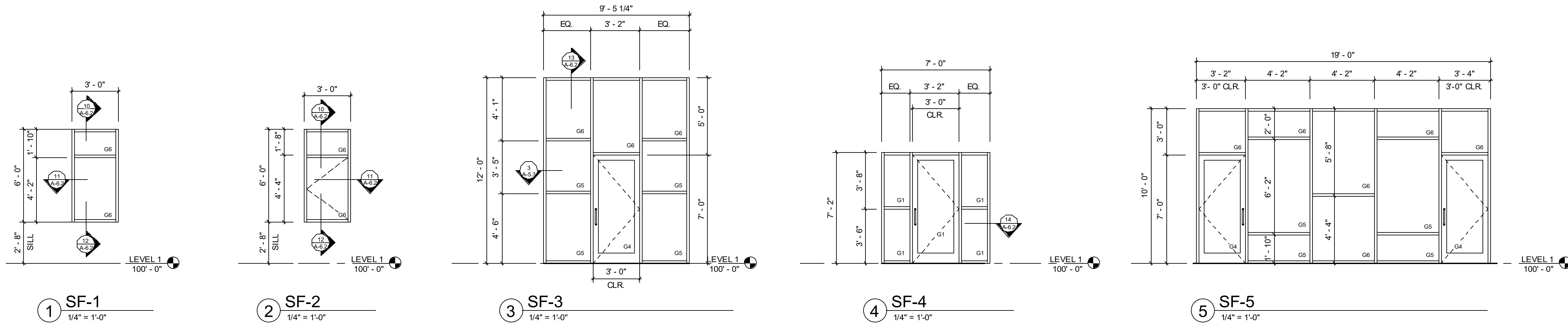
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TA7	ClassicSeries® Surface-Mounted Soap Dispenser	Bobrick	B-2111
TA9	Baby Changing Station	BIMSmith Generics	Baby Changing Station
TA11	Bobrick B-223 x 36 Surface Mounted Mop and Broom Holder	Bobrick Washroom Equipment, Inc.	B-223 x 36
TA12			
TA13	TrimLineSeries Recessed Paper Towel Dispenser And Waste Receptacle	Bobrick	B-3803
TA14	Bobrick B-4288 Contura Series Surface Mounted Multi-roll Toilet Tissue Dispenser	Bobrick	B-4288
TA15	Robe Hook	Bobrick	B-6717

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MARK	DESCRIPTION	MANUF.	MODEL	COMMENTS
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AP-2	REFRIGERATOR	WHIRLPOOL	WRF535SWHZ	PROVIDE 2
AP-3	6-BURNER GAS RANGE, 36"	FISHER & PAYKEL	OR36SDG4X1	
AP-4	EXHAUST HOOD			SEE MEP
AP-5	MICROWAVE	WHIRLPOOL	WMC50522H	
AP-6	COFFEE POT, 12 CUP, 120V	BUNN	AXIOMP-DV-3	PROVIDE 2 SERVERS
AP-7	DISHWASHER	MAYTAG	MDB9959SKZ	
AP-8	WASHING MACHINE	MAYTAG	MWW7232HW	
AP-9	DRYER	MAYTAG	MEW6630H	
AP-10	ICE MAKER	MANITOWOC	IT0420	PROVIDE ASSOCIATED BIN
SP-01	EXTRACTOR	UNI-MAC	UCT040	
SP-02	PIPE DRYING CABINET	UNI-MAC		
SP-03	GEAR LOCKERS, STANDARD WALL MOUNT	GEAR GRID	24" X 24" X 72"	



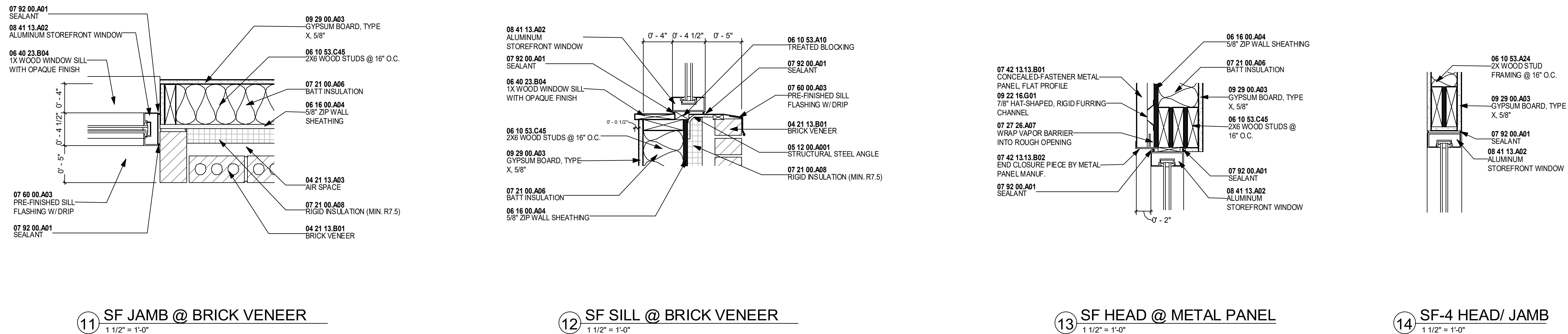
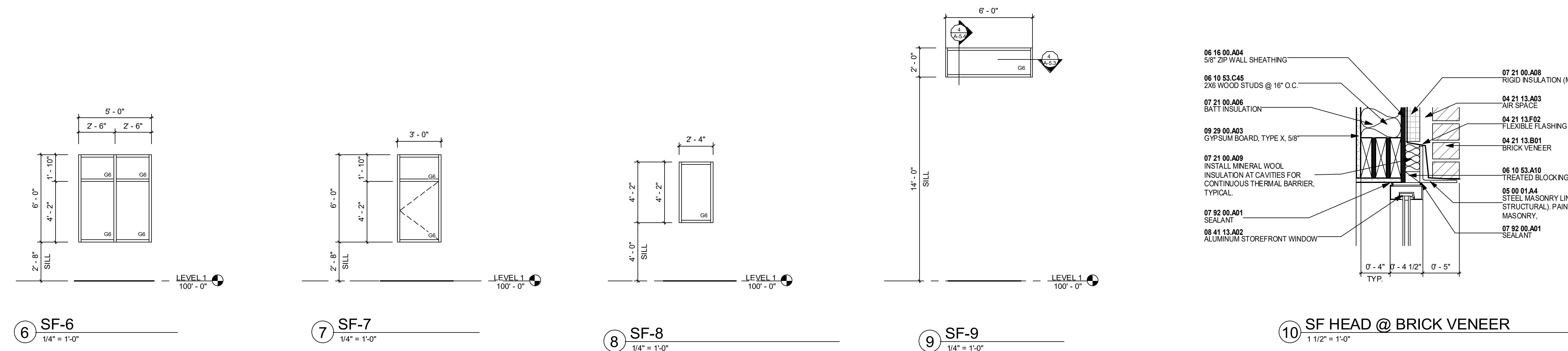


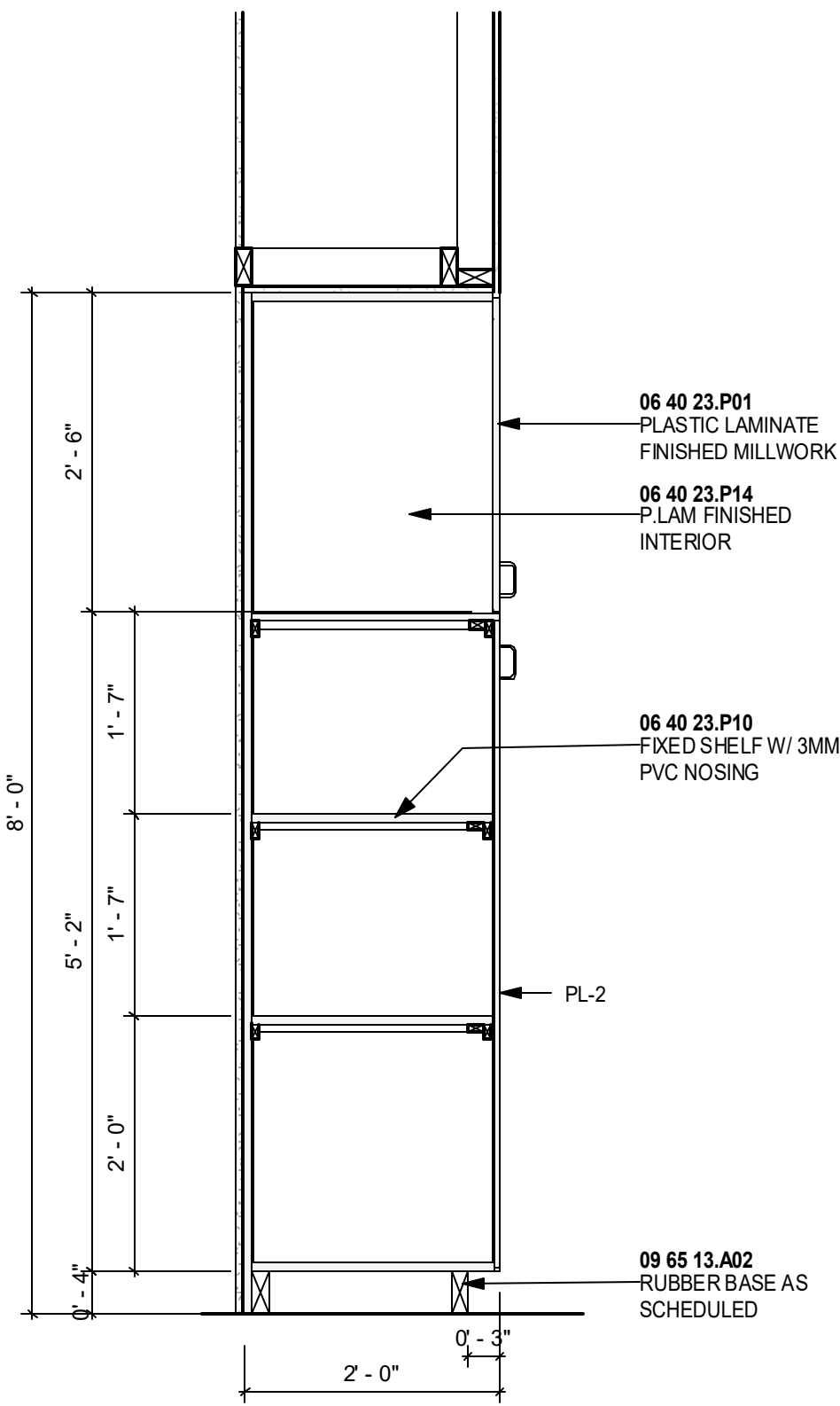




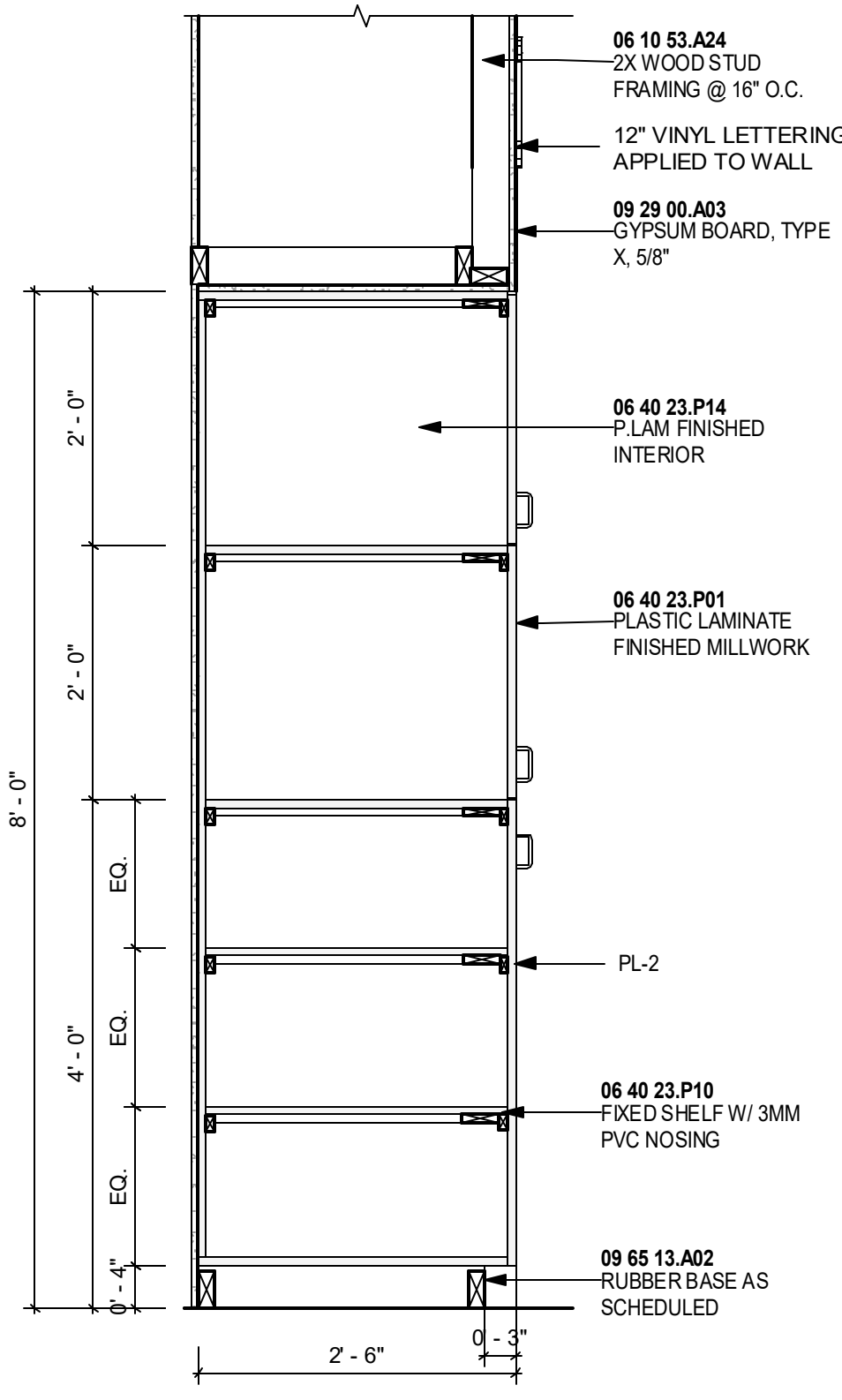
- ### GENERAL STOREFRONT NOTES
1. PROVIDE REINFORCING AS REQUIRED BY CODE FOR WIND LOADS.
 2. PROVIDE CONTINUOUS FLASHING AT HEAD OF STOREFRONT.
 3. PROVIDE THERMALLY BROKEN SILL RECEPTOR WITH END DAMS AT STOREFRONT SILLS.
 4. FIELD VERIFY ALL ROUGH OPENING DIMENSIONS.
 5. PROVIDE CONTINUOUS HEAD AND JAMB RECEPTORS WHERE INDICATED
 6. REFER TO DETAILS FOR BREAK METAL WRAPED COLUMNS.
 7. CONTRACTOR RESPONSIBLE FOR WORKMANSHIP AT STOREFRONT HEAD, JAMBS, SILLS, & COLUMN WRAPS. INTERIOR CAULK JOINTS SHALL BE KEPT TO A 1/4" OR LESS.
 8. AT ALL WINDOW AND DOORS: WRAP VAPOR BARRIER INTO ROUGH OPENINGS

GLAZING SCHEDULE	
MARK	DESCRIPTION
G1	1/4" CLEAR GLASS, TEMPERED
G2	1/4" CLEAR GLASS
G3	1/4" FIRE RATED GLASS
G4	1/2" TINTED INSULATING, TEMPERED
G5	1" TINTED INSULATED GLASS, TEMPERED
G6	1" TINTED INSULATING GLASS
G7	1" TINTED INSULATING GLASS W/ LIGHT DIFFUSING FILM
G8	1/2" INSULATED CLEAR GLASS

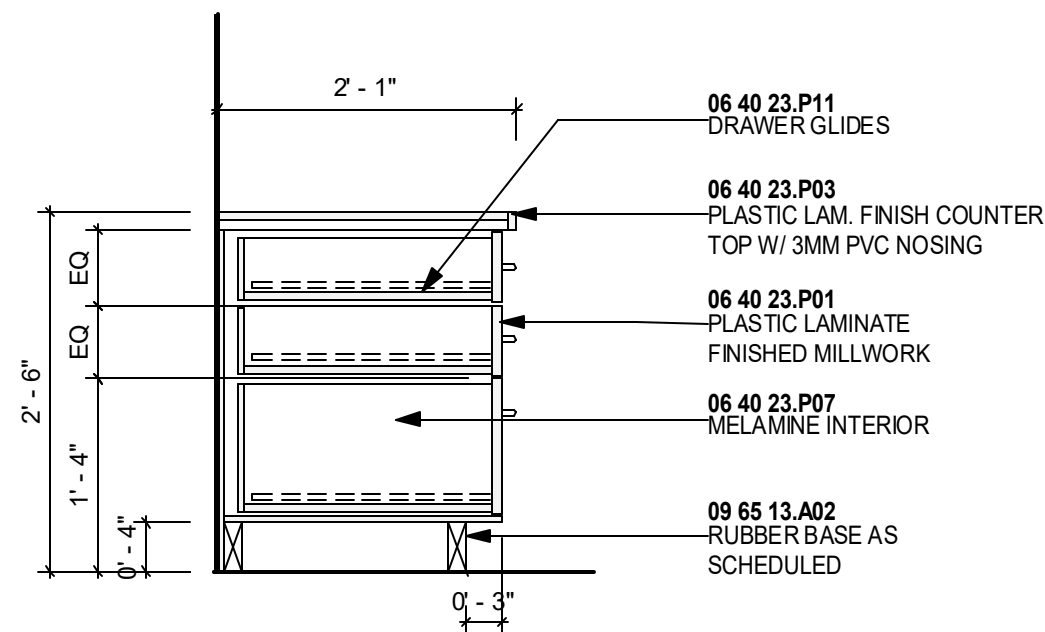




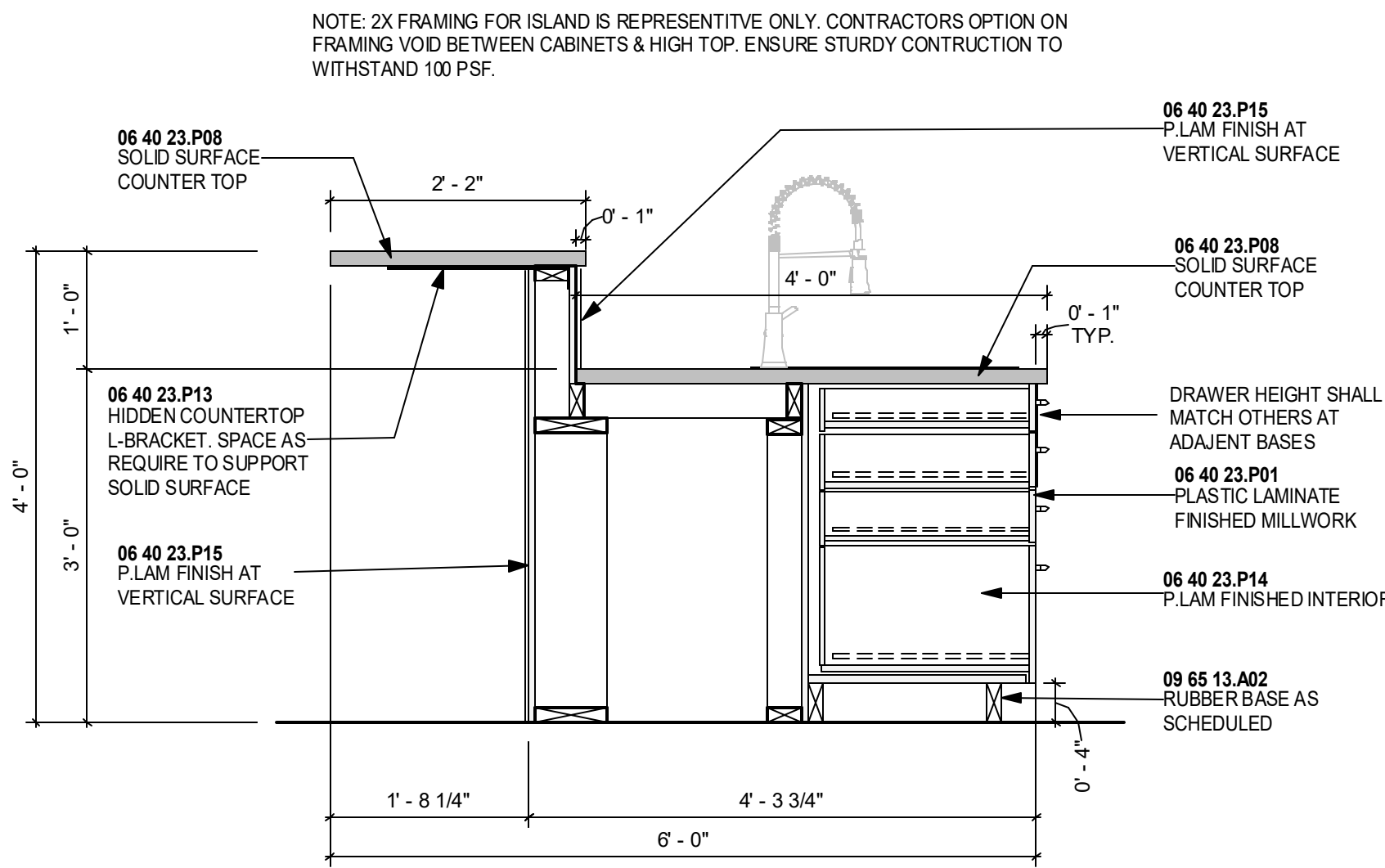
① KITCHEN TALL CAB.- WEST
3/4" = 1'-0"



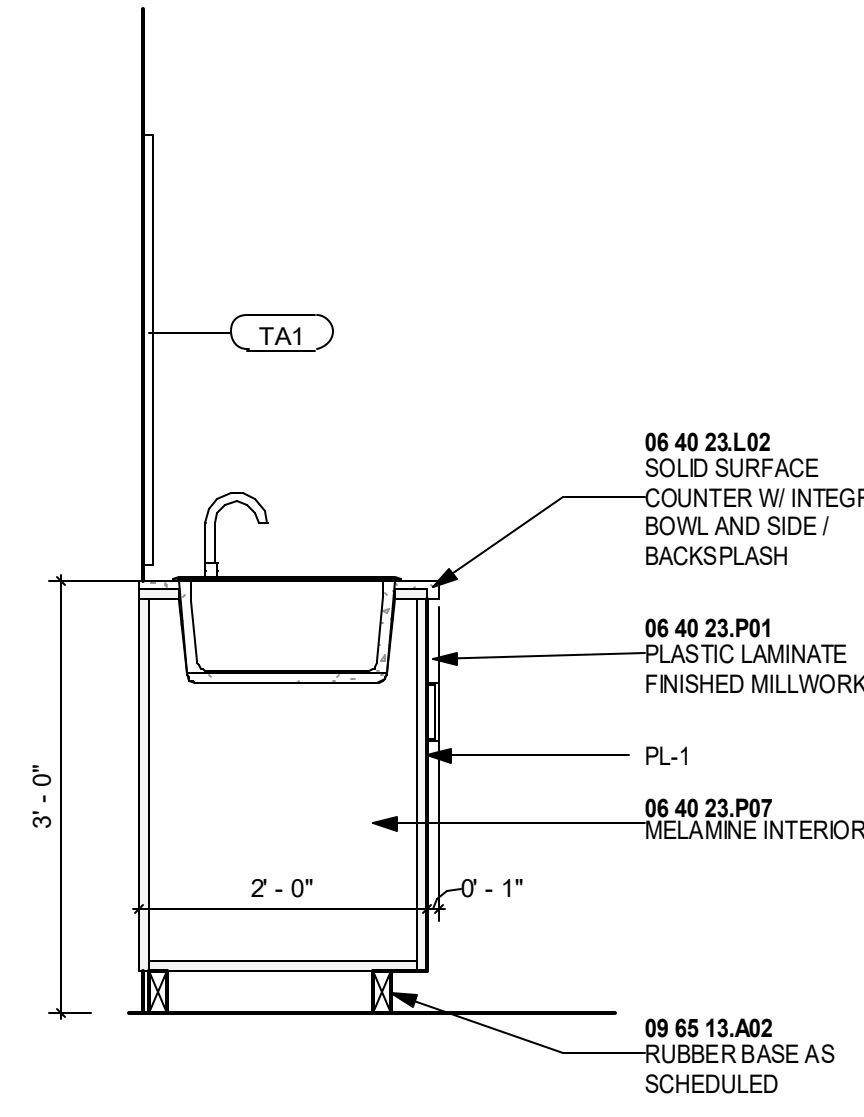
② KITCHEN TALL CAB.- NORTH
3/4" = 1'-0"



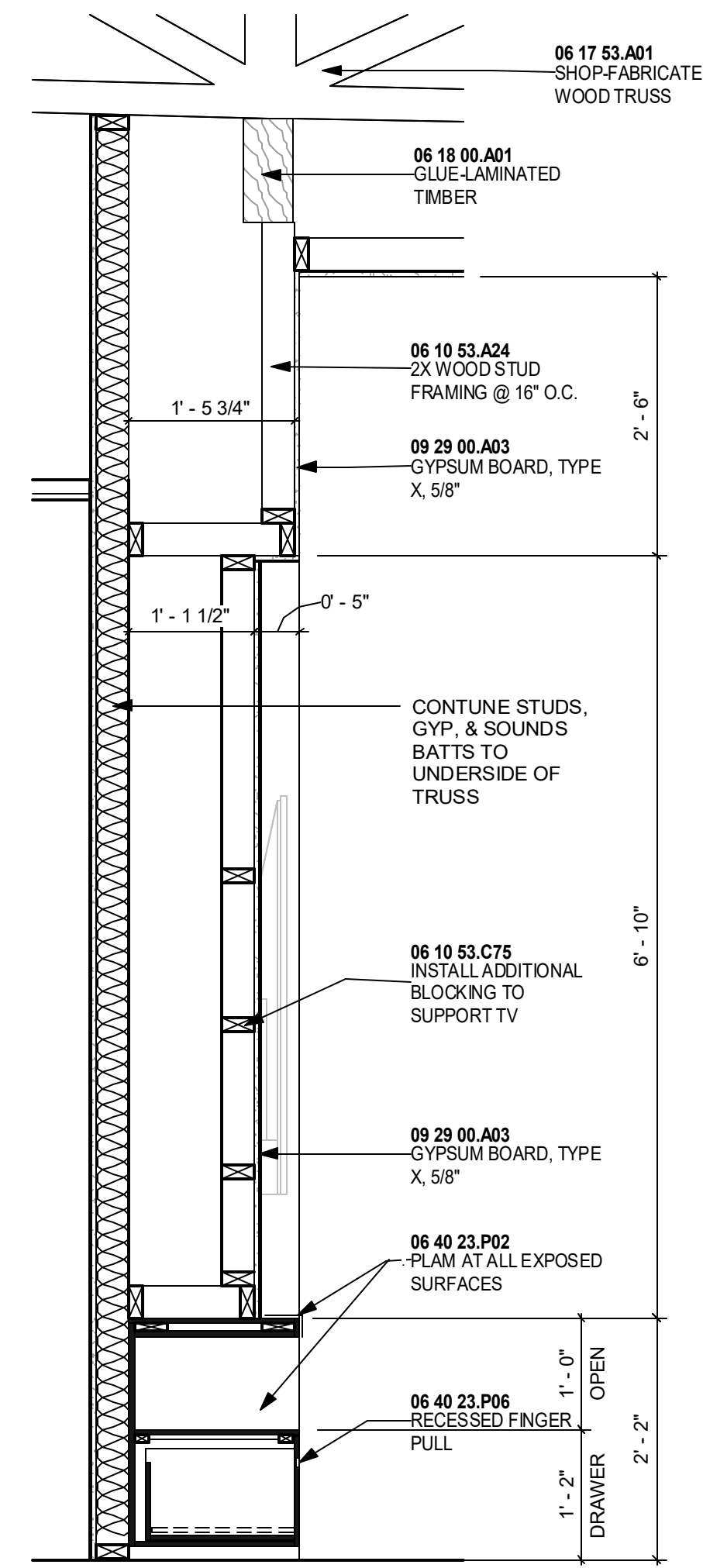
③ STORAGE DRAWER
3/4" = 1'-0"



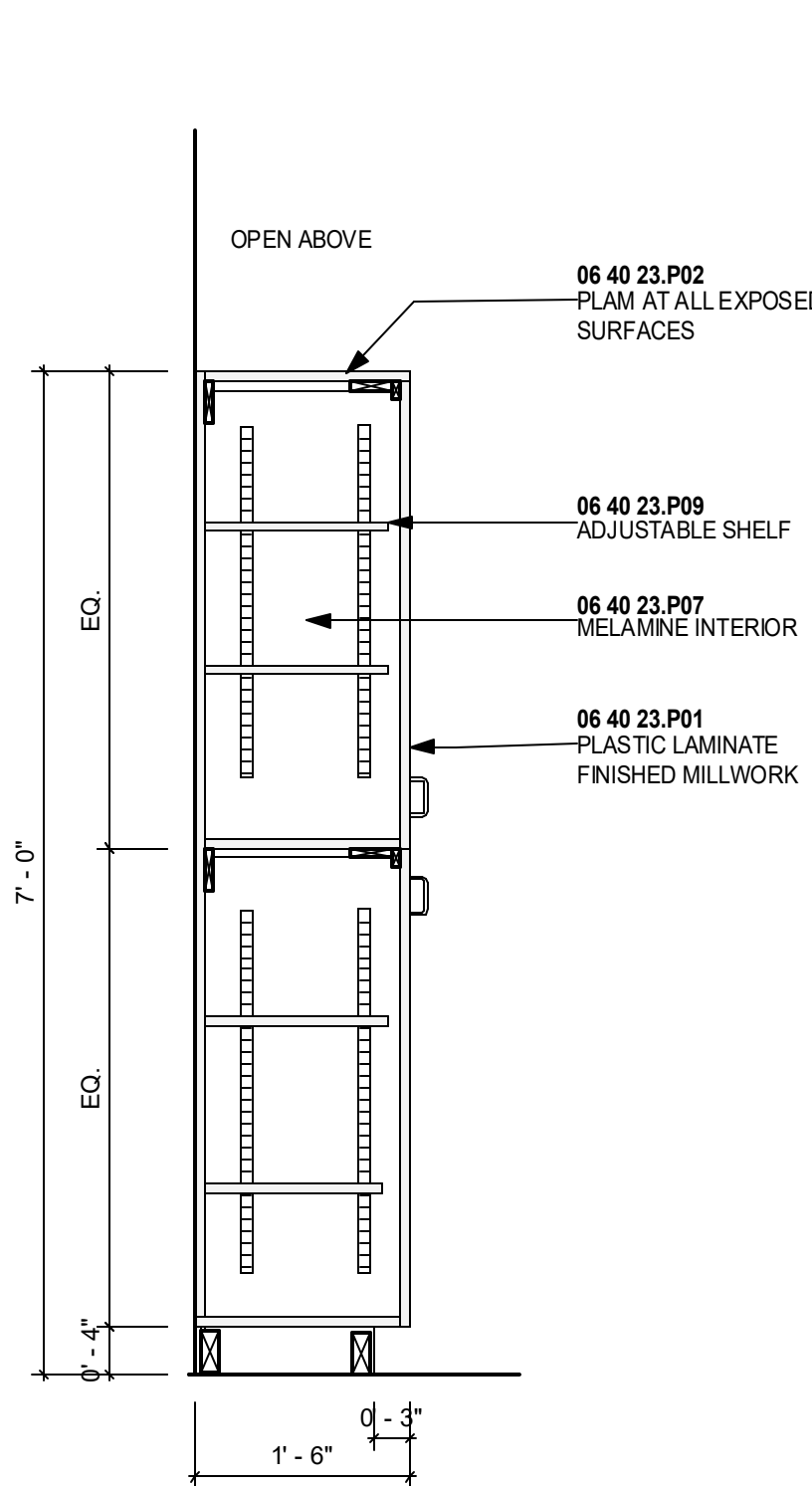
④ KITCHEN ISLAND DETAIL
3/4" = 1'-0"



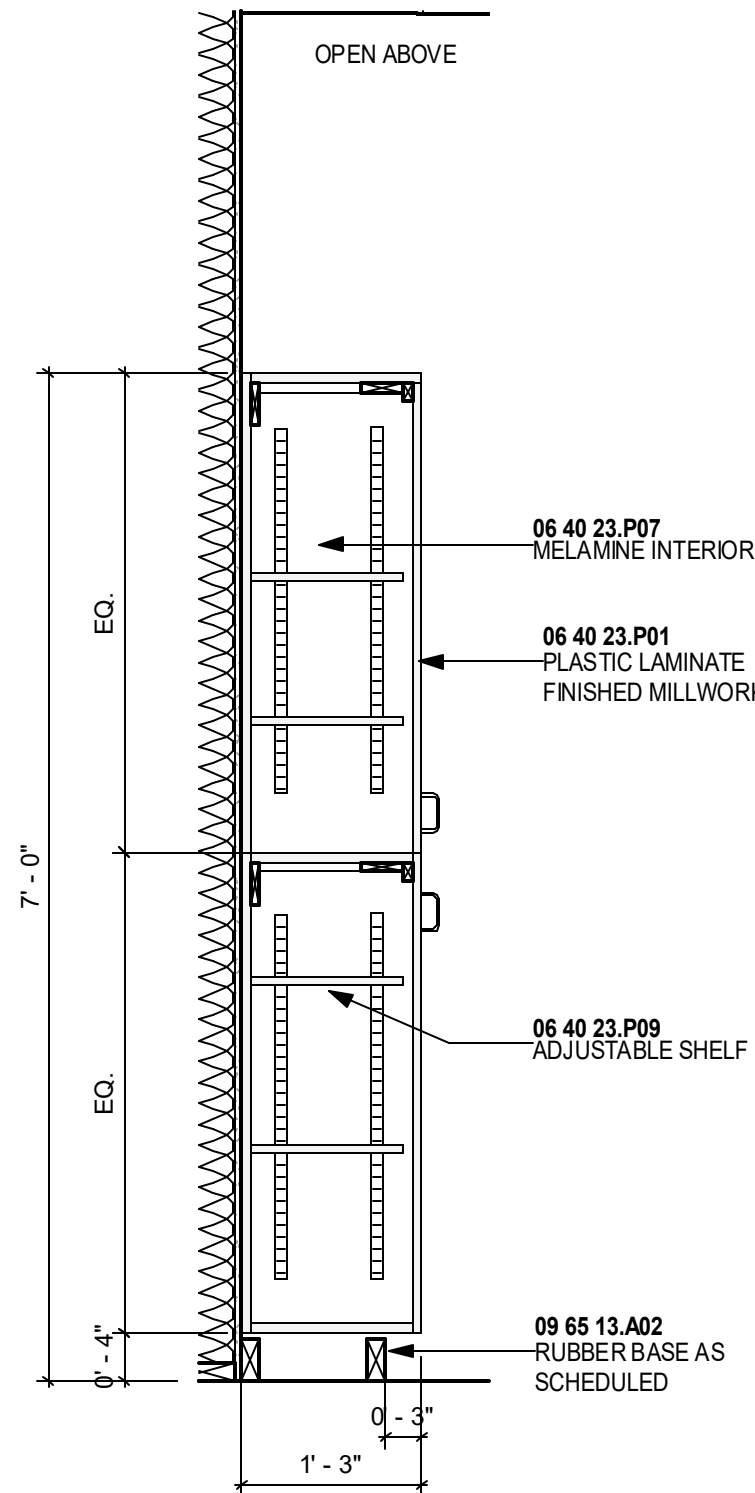
⑤ BATHROOM LAV.
3/4" = 1'-0"



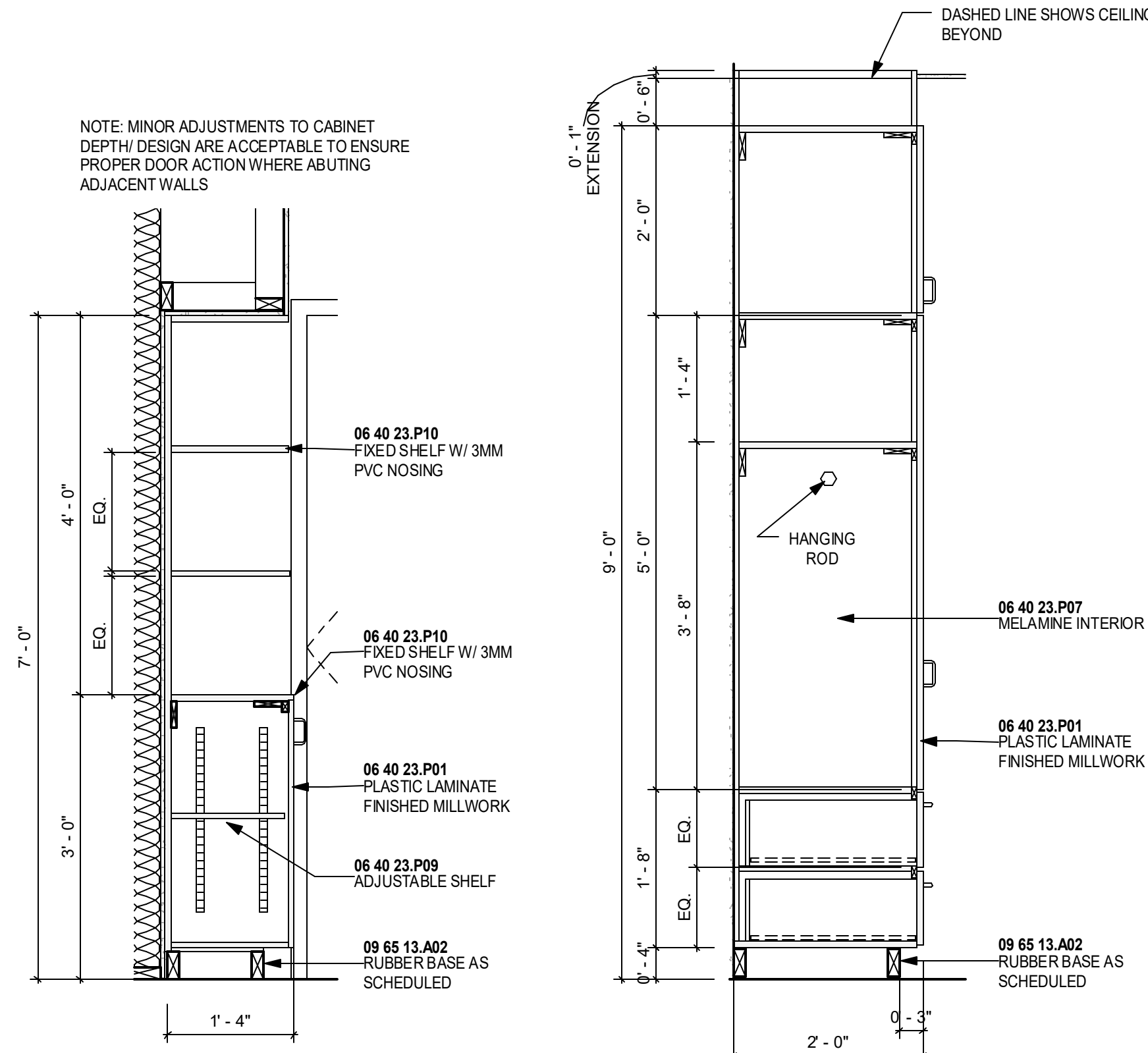
⑥ MEDIA CENTER SECTION
3/4" = 1'-0"



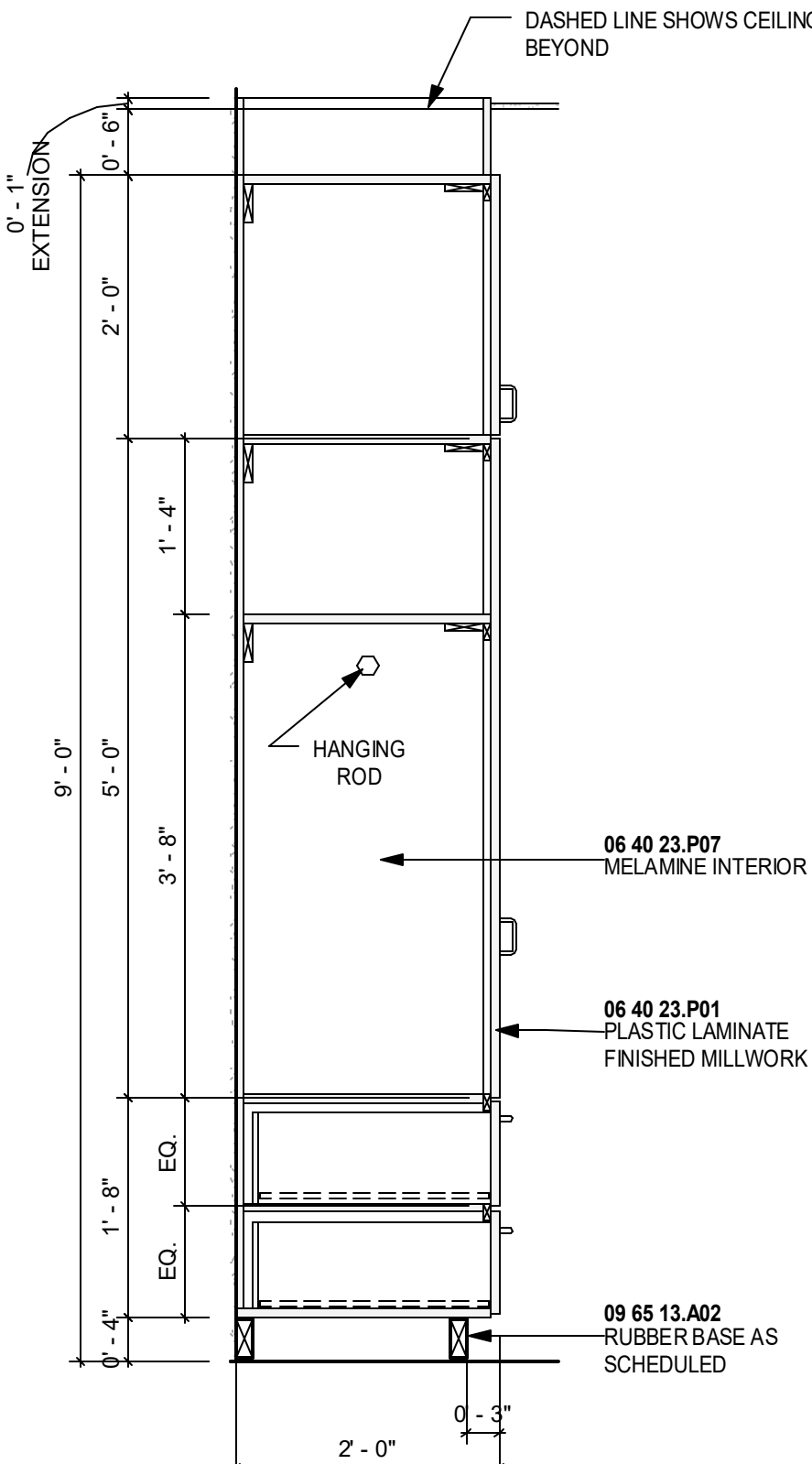
⑦ OFFICER 104 CABINET
3/4" = 1'-0"



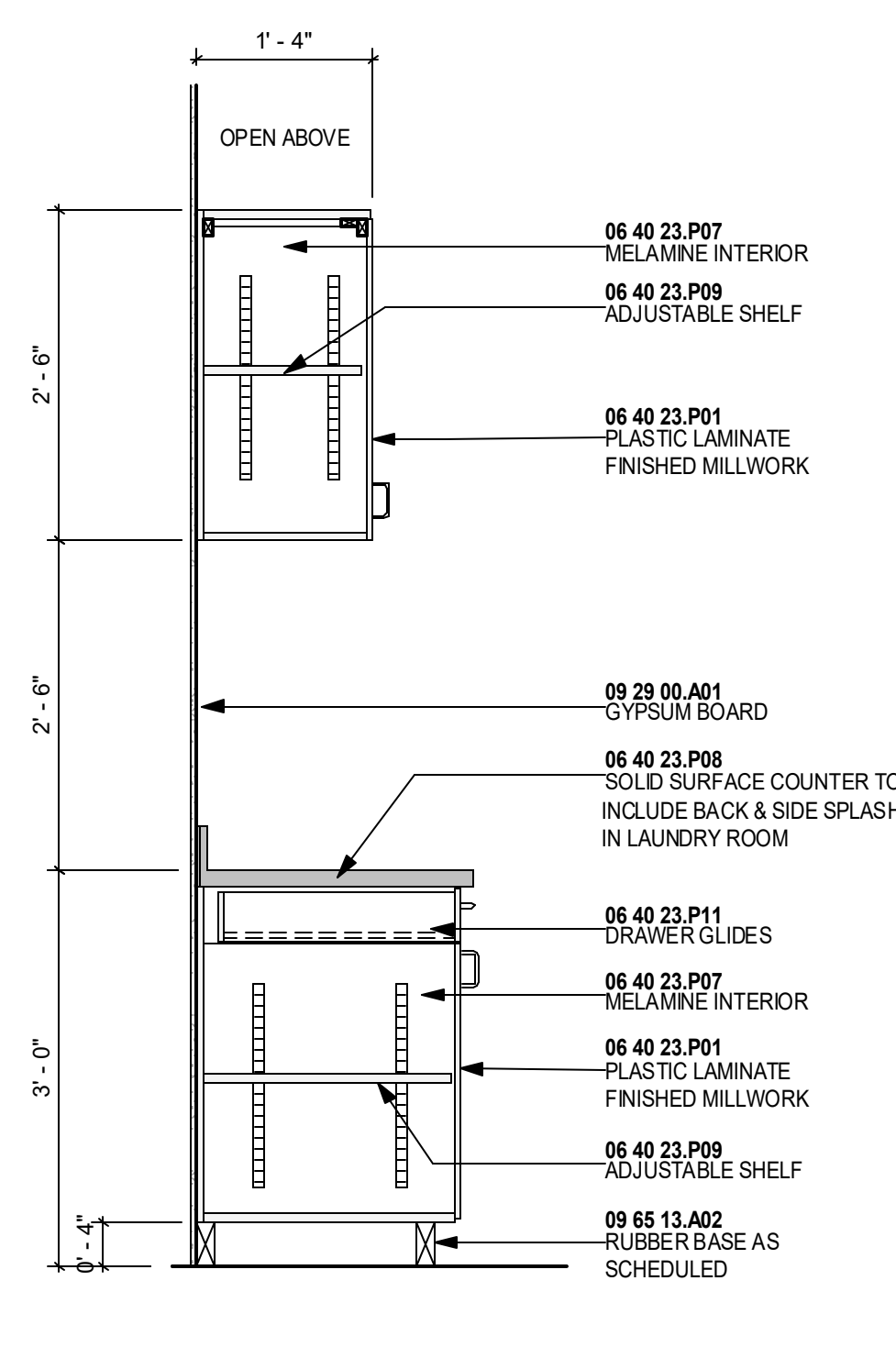
⑧ OFFICE 102 CABINET
3/4" = 1'-0"



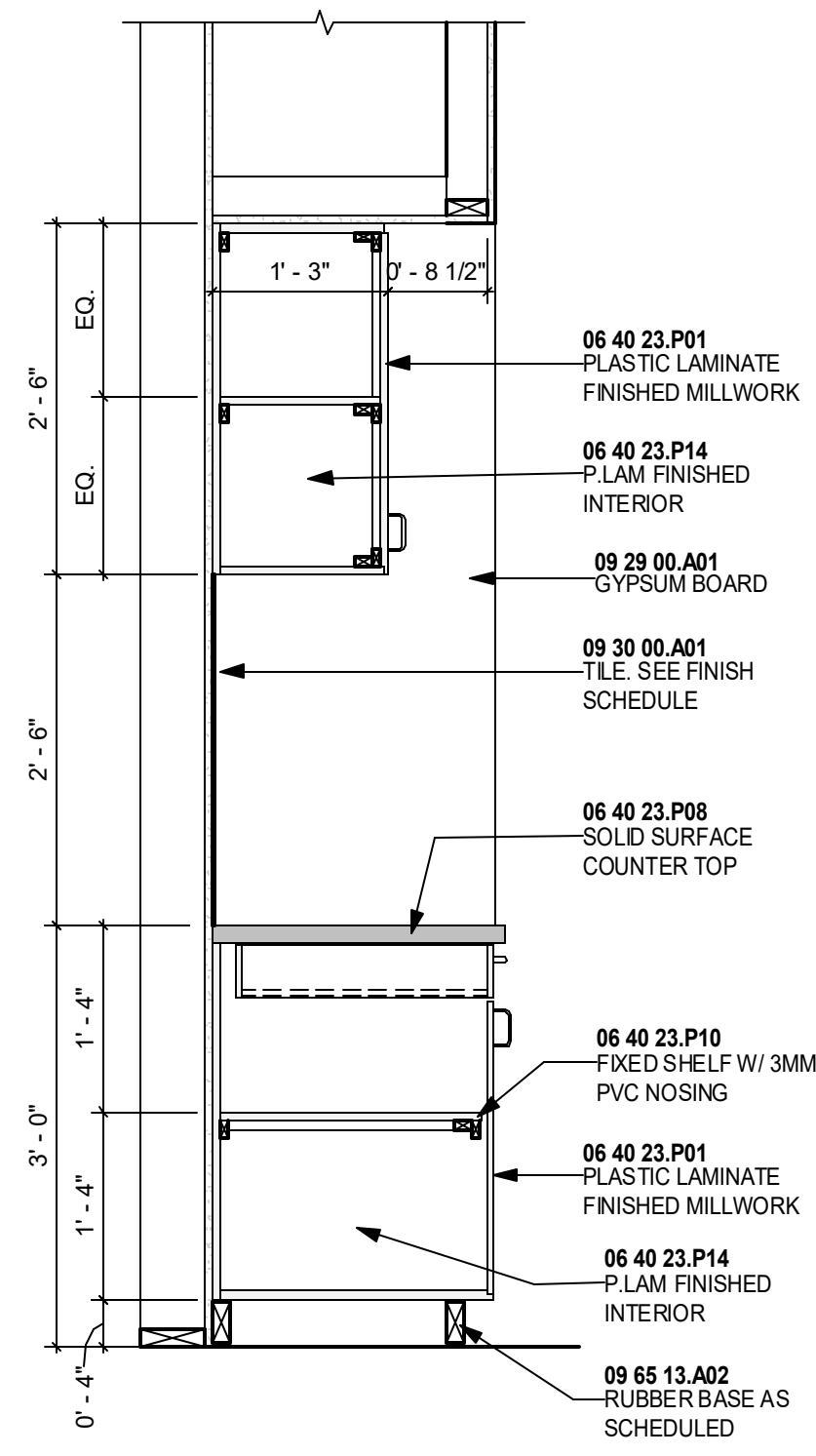
⑨ OFFICE 102 SHELVING
3/4" = 1'-0"



⑩ WARDROBE SECTION
3/4" = 1'-0"



⑪ LAUNDRY MILLWORK
3/4" = 1'-0"



⑫ KITCHEN- WEST MILLWORK
3/4" = 1'-0"



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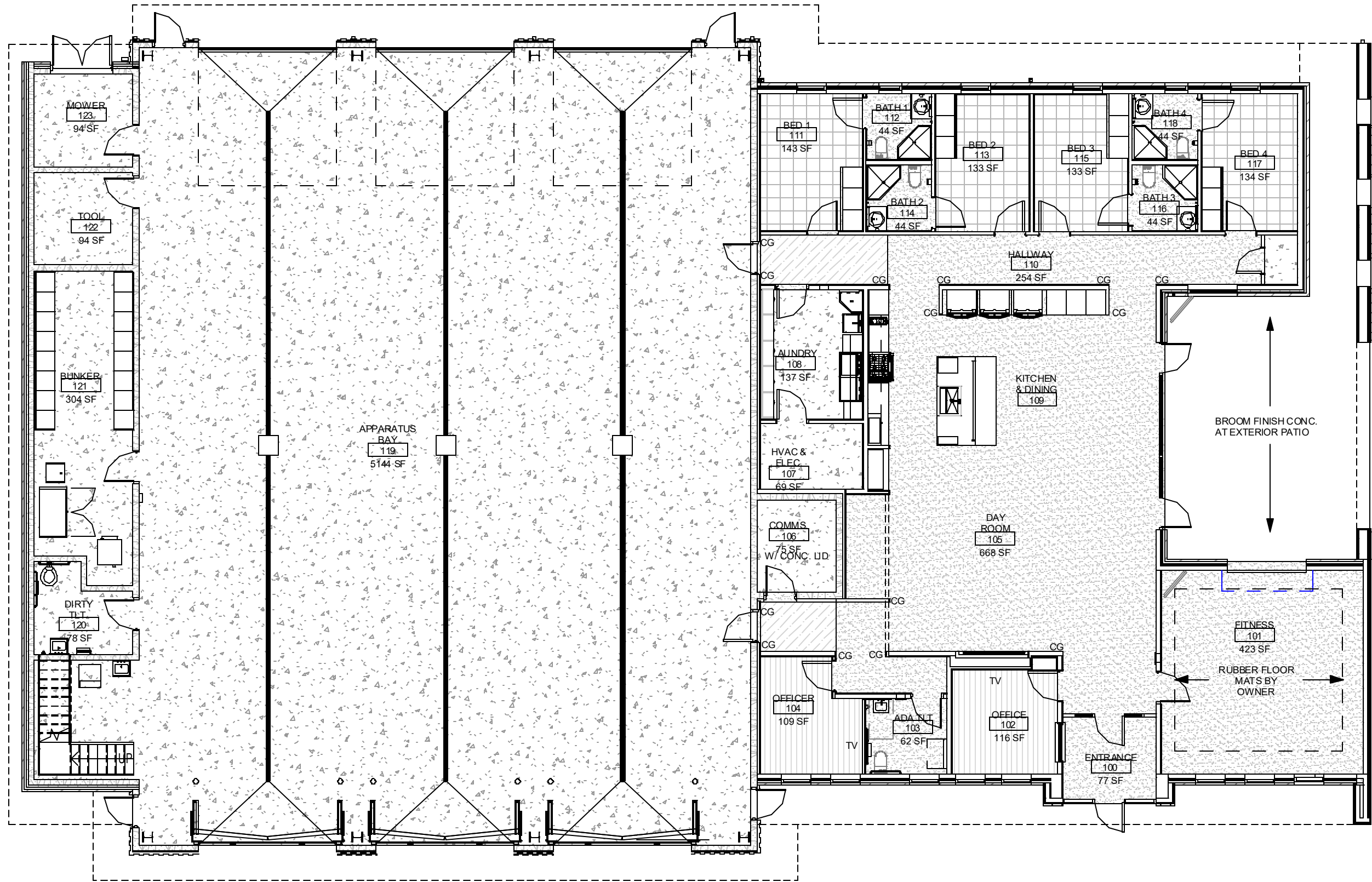
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**MILLWORK
DETAILS**

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ROOM SCHEDULE									
NUMBER	ROOM NAME	FLOOR	BASE	WALLS				CEILING	NOTES
				NORTH	SOUTH	EAST	WEST		
100	ENTRANCE	CONC. 2	4" RUBBER	PT-1	PT-1	PT-1	PT-1	GYP., PT-1	
101	FITNESS	CONC. 1	4" RUBBER	PT-4	PT-4	PT-6	PT-4	ACT	RUBBER MATS BY OWNER INCLUDE 3' X 5' MIRRORS ON EAST WALL
102	OFFICE	LVT-1	4" RUBBER	WF-1	PT-1	PT-1	PT-1	ACT	INCLUDE MARKER & TACK BOARDS
103	ADA TLT	CONC. 2	TILE	WT-2 / PT-1	WT-2/ PT-1	PT-1	WT-2	GYP., PT-1	
104	CORRIDOR	CONC. 1	4" RUBBER	PT-1	PT-1	PT-1	PT-1	GYP., PT-1	
104	OFFICER	LVT-1	4" RUBBER	PT-1	PT-1	WF-1	PT-1	ACT	INCLUDE MARKER & TACK BOARDS
105	DAY ROOM	CONC. 2 & CPT-1	4" RUBBER	PT-1	PT-1	PT-1	PT-1	GYP., PT-1	WOOD INSET AT TV/ MEDIA
106	COMMS.	CONC. 1	4" RUBBER	PT-4	PT-4	PT-4	PT-4	PT-4	
107	HVAC & ELEC.	CONC. 1	4" RUBBER	PT-4	PT-4	PT-4	PT-4	OPEN	
108	LAUNDRY	CONC. 1	4" RUBBER	PT-4	PT-4	PT-4	PT-4	ACT	
109	KITCHEN & DINING	CONC. 2	4" RUBBER	PT-1	PT-1	PT-1	WT-1	GYP., PT-1	
110	HALLWAY	CONC. 2 & WOK-1	4" RUBBER	PT-1	PT-1	PT-1	PT-1	GYP., PT-1	
111	BED 1	CPT-1	4" RUBBER	PT-1	PT-1	PT-1	PT-1	ACT	
112	BATH 1	FT-1	TILE	PT-4	WT-3	WT-3	PT-4	GYP., PT-1	
113	BED 2	CPT-1	4" RUBBER	PT-1	PT-1	PT-1	PT-1	ACT	
114	BATH 2	FT-1	TILE	WT-3	PT-1	PT-4	WT-3	GYP., PT-1	
115	BED 3	CPT-1	4" RUBBER	PT-1	PT-1	PT-1	PT-1	ACT	
116	BATH 3	FT-1	TILE	WT-3	PT-4	WT-3	PT-4	GYP., PT-1	
117	BED 4	CPT-1	4" RUBBER	PT-1	PT-1	PT-1	PT-1	ACT	
118	BATH 4	FT-1	TILE	PT-4	WT-3	PT-4	WT-3	GYP., PT-1	
119	APPARATUS BAY	CONC. 1	---	PT-4	PT-4	PT-4	PT-4	PT-3	
120	DIRTY TLT.	CONC. 1	4" RUBBER	PT-4	PT-4	PT-4	PT-4	OPEN	
121	BUNKER	CONC. 1	---	PT-4	PT-4	PT-4	PT-4	OPEN	
122	TOOL	CONC. 1	---	PT-4	PT-4	PT-4	PT-4	OPEN	
123	MOWER	CONC. 1	---	PT-4	PT-4	PT-4	PT-4	OPEN	
201	MEZZANINE	CONC. 1	---	PT-4	PT-4	PT-4	PT-4	PT-3	

FINISH LEGEND	
	2 X 2 CARPET TILE
	SEALED CONCRETE
	POLISHED CONCRETE
	WALK-OFF CARPET
	LVT
	CORNER GUARD

FINISH MATERIALS					
FINISH CODE	MATERIAL	MANUF	DESCRIPTION	SIZE	COMMENTS / INSTALLATION NOTES
CEILING MATERIAL					
ACT	2X2 LAY-IN CEILING	---			
GYP	GYPSUM BOARD	---			
FLOOR BASE					
PTB1	PORCELAIN TILE BASE	TRINITY TILE			
RB1	RUBBER BASE	JOHNSONITE	COLOR: 32 PEBBLE	4" HIGH	
RB-2	RUBBER BASE	JOHNSONITE	COLOR: TA4 GATEWAY	4" HIGH	
FLOORING					
CONC. 1	SEALED CONC.	---	TROWL FINISH		
CONC. 2	POLISHED CONCRETE	---	MEDIUM GLOSS FINISH		
CPT-1	MODULAR CARPET	J + J	INTRINSIC ACCENT, COLOR: 3564 AUTHENTIC ACCENT		INSTALL PATTERN: TBD
FT-1	PORCELAIN FLOOR TILE	TRINITY TILE	BALLAD, COLOR: CREMA; MOSAIC PATTERN: TBD		
LVT-1	LUXURY VINYL TILE	TARKETT	COLLECTION: CONTOUR, STYLE: PCBE COLOR BEAM, COLOR NAME/ NUMBER: C121 FLANNEL	9' X 36" PLANK	
PLYWD	PLYWOOD	---	EXPOSED PLYWOOD DECKING	3/4" THICK	
WOC-1	WALK-OFF CARPET	J + J	INCOGNITO, STYLE: 7069; COLOR: CRYPTIC		
GROUT					
GT1	GROUT	LATICRETE			
MILLWORK MATERIAL					
MLM	MELAMINE	---	COLOR: TBD		
PL-1	PLASTIC LAMINATE	FORMICA	OILED WOOD FINISH, COLOR: MAPLE WOODLINE # 6925-26		
PL-2	PLASTIC LAMINATE	FORMICA	OILED WOOD FINISH, COLOR: PECAN WALNUT # 6996-26		
PL-3	PLASTIC LAMINATE	FENIX	COLOR: BLU FES # 0754		
PLYWD	PLYWOOD	---	-		
SS-1	SOLID SURFACE	FORMICA	EVERFORM, #413 TUMBLD GLASS	48"	
SS-2	SOLID SURFACE	WILSON ART	# 9074EA BLUESTONE		
STSL	STAINLESS STEEL	---	STAINLESS STEEL COUNTER TOP		
TILE TRIM					
TRIM1	STAINLESS METAL TRIM PROFILE	SCHLUTER	PROFILE:		
WALL FABRIC					
WF-1	WALL FABRIC, NON-WOVEN	MAHARAM	COLLECTION: ERA; COLOR: 026 BLUEBERRY		
WALL FINISH - PAINT					
PT-1	LATEX ENAMEL PAINT	SHERWIN WILLIAMS	COLOR: WHITE DUCK #SW 7010		
PT-2	LATEX ENAMEL PAINT	SHERWIN WILLIAMS	COLOR: TRICORN BLACK # SW 6258		ACCENT/ TRIM PAINT
PT-3	CEILING PAINT	SHERWIN WILLIAMS	COLOR: WHITE DUCK #SW 7010COLOR:		WATERBORN ACRYLIC DRYFALL
PT-4	EPOXY PAINT	SHERWIN WILLIAMS	COLOR: WHITE DUCK #SW 7010		
PT-5	---	---	---		
PT-6	EPOXY PAINT	SHERWIN WILLIAMS	COLOR: LOYAL BLUE #SW 6510		
WALL FINISH- WOOD					
WDT1	WOOD TRIM	CLEAR CYPRESS		1 X 4	INSTALL HORIZONTAL DAY-ROOM INSET. WRAP WALLS & CEILING.
WALL TILE					
WT-1	PORCELAIN TILE	TRINITY TILE	TARRE, COLOR: NERO/ BLACK; POLISHED	3" X 16"	HORIZONTAL, LINEAR BACKSPLASH
WT-2	CERAMIC WALL TILE	TRINITY TILE	WILDAIR, COLOR: DENIM	4" X 12"	HORIZONTAL, LINEAR
WT-3	PORCELAIN TILE	TRINITY TILE	CASSA, COLOR: COSTAL BREEZE	3" X 12"	
WOOD STAIN					
STN1	DANISH OIL				APPLY TO CLEAR CYPRESS



1 FINSIH PLAN
3/32" = 1'-0"



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CITY OF MOUNTAIN HOME, AR
FIRE STATION #2
2030 HIGHWAY 69 E
MOUNTAIN HOME, AR 72653



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**FINISH
SCHEDULE &
MATERIALS**

SHEET
A7.1

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SITE PLAN

SHEET
C1.1

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GENERAL NOTES:

- ALL WORK FOR THIS PROJECT IS COVERED BY THE 2014 EDITION OF THE AHTD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, INCLUDING EARTHWORK DIVISION 200; BASE COURSE DIVISION 300; SURFACE COURSE DIVISION 400; CONCRETE DIVISIONS 500 & 800; DRAINAGE FACILITIES DIVISION 600; EXCEPT AND UNLESS SPECIFICALLY NOTED WITHIN THE PROJECT DOCUMENTS.
- ALL CONSTRUCTION OF UTILITIES TO BE IN ACCORDANCE WITH STATE & LOCAL BUILDING CODES & LOCAL OPERATING AUTHORITIES.
- THE SITE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE DEMOLITION OF EXISTING ON SITE FACILITIES ABOVE AND UNDERGROUND. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL FROM THE SITE OF ALL DEMOLISHED MATERIALS. THE FILLING OF ALL DEPRESSIONS CAUSED BY DEMOLITION, AND GRADING OF THESE AREAS SO AS NOT TO BE OBJECTIONABLE TO VIEW. THE CONTRACTOR SHALL OBSERVE ALL REQUIRED SAFETY PRECAUTIONS IN THE PERFORMANCE OF HIS WORK.
- THE CONTRACTOR SHALL PREPARE GRADED AREAS TO THE GRADES NECESSARY TO INSTALL SOO/SEED & STRAW & LANDSCAPING AS NECESSARY. THE MAXIMUM ALLOWABLE SLOPE SHALL BE 2:1. CONTRACTOR SHALL MATCH EXISTING GRADES AT ALL PROPERTY LINES AROUND SITE, UNLESS OTHERWISE SHOWN ON GRADING PLAN. ALL GRADES SHOWN ON GRADING PLAN ARE FINISHED GRADES.
- DIMENSIONS AND GRADING OF THIS SITE ARE BASED ON AVAILABLE INFORMATION AT TIME OF DESIGN. DEVIATIONS MAY BE NECESSARY IN THE FIELD. ANY SUCH CHANGES OR CONFLICTS BETWEEN THIS PLAN AND FIELD CONDITIONS ARE TO BE REPORTED TO THE ENGINEER PRIOR TO STARTING CONSTRUCTION.
- LOCATION OF UNDERGROUND UTILITIES, EXISTING OR PROPOSED, ARE APPROXIMATE OR SCHEMATIC. LOCATION OF EXISTING UTILITIES MUST BE VERIFIED IN THE FIELD PRIOR TO ANY CONSTRUCTION.
- THE RESPONSIBLE CONTRACTOR SHALL MAINTAIN THE SITE, INCLUDING HAUL ROADS, IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES.

APPROX. BUILDING AREA: 9,800 SQ. FT.
APPROX. PARKING AREA: 22,530 SQ. FT.
PARKING PROVIDED: 12 SPACES (11 STD./1 ADA)

LEGEND:

- PARKING SPACE COUNT
- PROPOSED CURB & GUTTER (2/C5.1)
- PROPOSED HEAVY DUTY CONCRETE (1/C5.1)
- PROPOSED SIDEWALK (3/C5.1)
- REFERS TO SHEET & DETAIL

NOTE:

DIMENSIONS SHOWN ARE TO FACE OF CURB, EDGE OF PAVEMENT, & BUILDING LINE.
SEE BUILDING PLANS FOR ACTUAL BUILDING DIMENSIONS.
SEE DETAIL SHEET FOR PAVING SECTIONS
ALL SITE STRIPING SHALL BE YELLOW, EXCEPT THAT HANDICAP SPACES SHALL BE ADA BLUE.
LAYOUT SHALL BE CONTROLLED BY THE PROPERTY LINE POSITIONS. ENGINEER WILL PROVIDE CADD FILE TO CONTRACTOR UPON REQUEST.

KEYED NOTES:

- ① PAINTED ADA SYMBOL (7/C5.1)
② 4" WIDE ADA BLUE STRIPING
③ 4" WIDE ADA BLUE STRIPING (HATCHING IS ON 3' CENTERS)
④ ADA ACCESSIBLE SIGN (5/C5.1)

ANY WORK DONE IN THE ARDOT R.O.W.
REQUIRES A PERMIT.
THE PROPOSED DRIVE SHALL BE CONSTRUCTED
PER ARDOT STD. DRAWING DR-1.

① SITE PLAN

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**GRADING
PLAN**

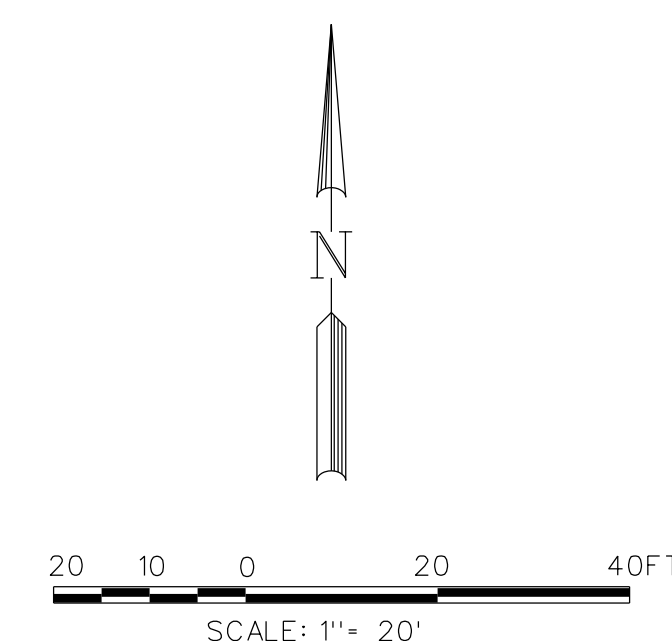
SHEET
C1.2

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1. EXISTING CONTOURS & CONDITIONS ARE FROM A TOPOGRAPHIC SURVEY FROM CONSOLIDATED LAND SERVICES.
2. PROPOSED CONTOUR INTERVAL IS 1'.
3. FOR CURBED AREAS WHERE THE PARKING GRADE SLOPES AWAY FROM THE CURB, "NO FLOW" CURB SHALL BE CONSTRUCTED AS SHOWN IN THE DETAILS.
4. SPOT ELEVATIONS IN THE PROPOSED PARKING ARE FINISH PAVEMENT. SPOT ELEVATIONS ELSEWHERE ARE TO FINISHED GROUND(G) OR SIDEWALK(S) GRADE.
5. PROJECT TBM IS A CHISELED "X" ON THE NORTH RIM OF THE SEWER MANHOLE LID AT THE SOUTHWEST CORNER OF THE SITE. ELEVATION: 961.0.
6. ANY SELECT MATERIALS SHALL BE REQUIRED TO MEET UNIFIED SOILS CLASSIFICATION SYSTEM AS A GC, GM, SC, OR GW MATERIAL. ANY MATERIAL TO BE USED SHALL REQUIRE PRIOR REVIEW AND APPROVAL BY THE ENGINEER.

	PROPOSED CURB & GUTTER
	PROPOSED SPOT ELEVATION
	PROPOSED MAJOR CONTOUR, 5' INTERVAL
	PROPOSED MINOR CONTOUR, 1' INTERVAL
	EXISTING MAJOR CONTOUR, 5' INTERVAL
	EXISTING MINOR CONTOUR, 1' INTERVAL
	FLOW DIRECTION ARROWS



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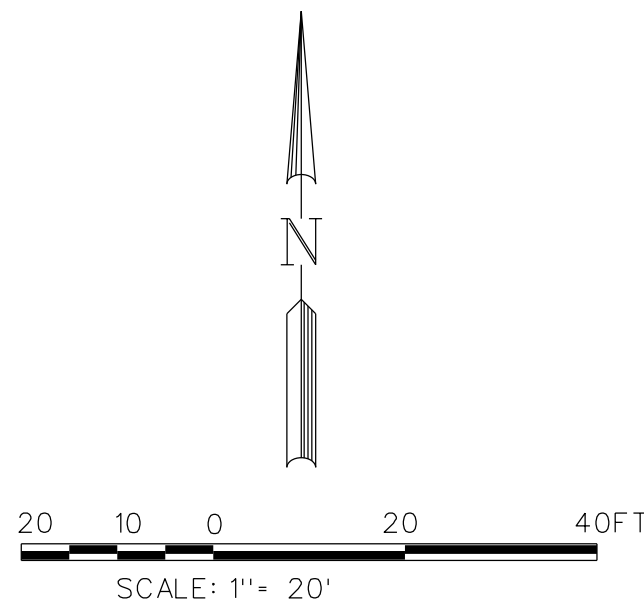
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**LANDSCAPE
PLAN**

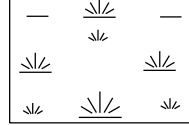
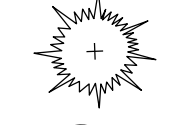
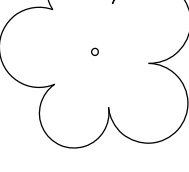
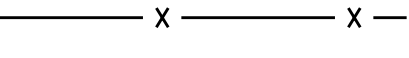
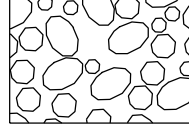
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C2.1
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LANDSCAPING NOTES:

1. LANDSCAPING IN THIS PLAN IS REPRESENTATIVE OF THE CITY OF MOUNTAIN HOME REQUIREMENTS. CONTRACTOR SHALL COORDINATE WITH OWNER AND LANDSCAPER FOR FINAL LANDSCAPE LAYOUT & SPECIES SELECTION.
2. LANDSCAPING SHALL BE IN ACCORDANCE WITH THE CITY OF MOUNTAIN HOME LANDSCAPE REGULATIONS (C2.2). DEVIATIONS FROM THE GENERAL INTENT OF THIS LANDSCAPE PLAN MUST BE APPROVED BY THE CITY OF MOUNTAIN HOME STREET DEPARTMENT PRIOR TO CONSTRUCTION.
3. ALL DRIVES/PARKING AREAS SHALL BE CONCRETE.
4. ALL AREAS NOT RECEIVING CONCRETE/RIP RAP WITHIN THE SITE LIMITS SHALL BE SEEDED AND STRAWED OR SODDED.
5. COORDINATE IRRIGATION SYSTEM (IF SPECIFIED) WITH OWNER & LANDSCAPER.

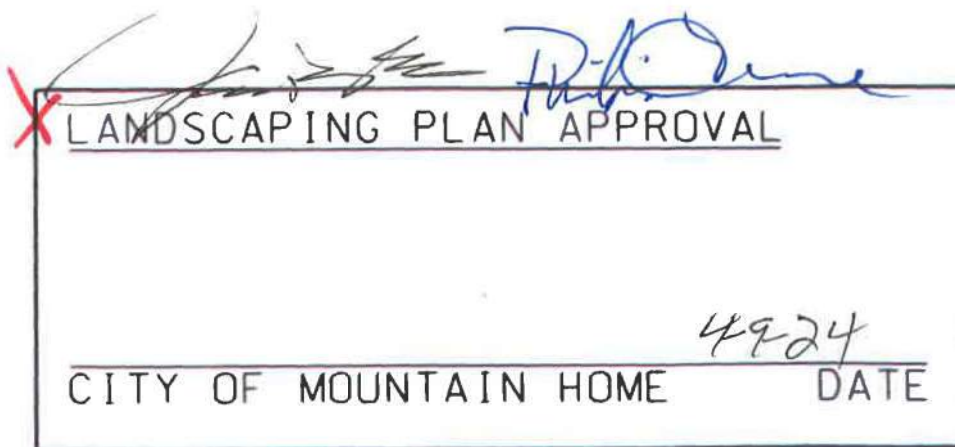


LEGEND:

-  PROPOSED LANDSCAPE AREA
-  PROPOSED DECORATIVE BUSH/SHRUB
-  PROPOSED TREE
-  PROPOSED DUMPSTER ENCLOSURE/ DECORATIVE FENCE
-  PROPOSED RIP RAP SWALE

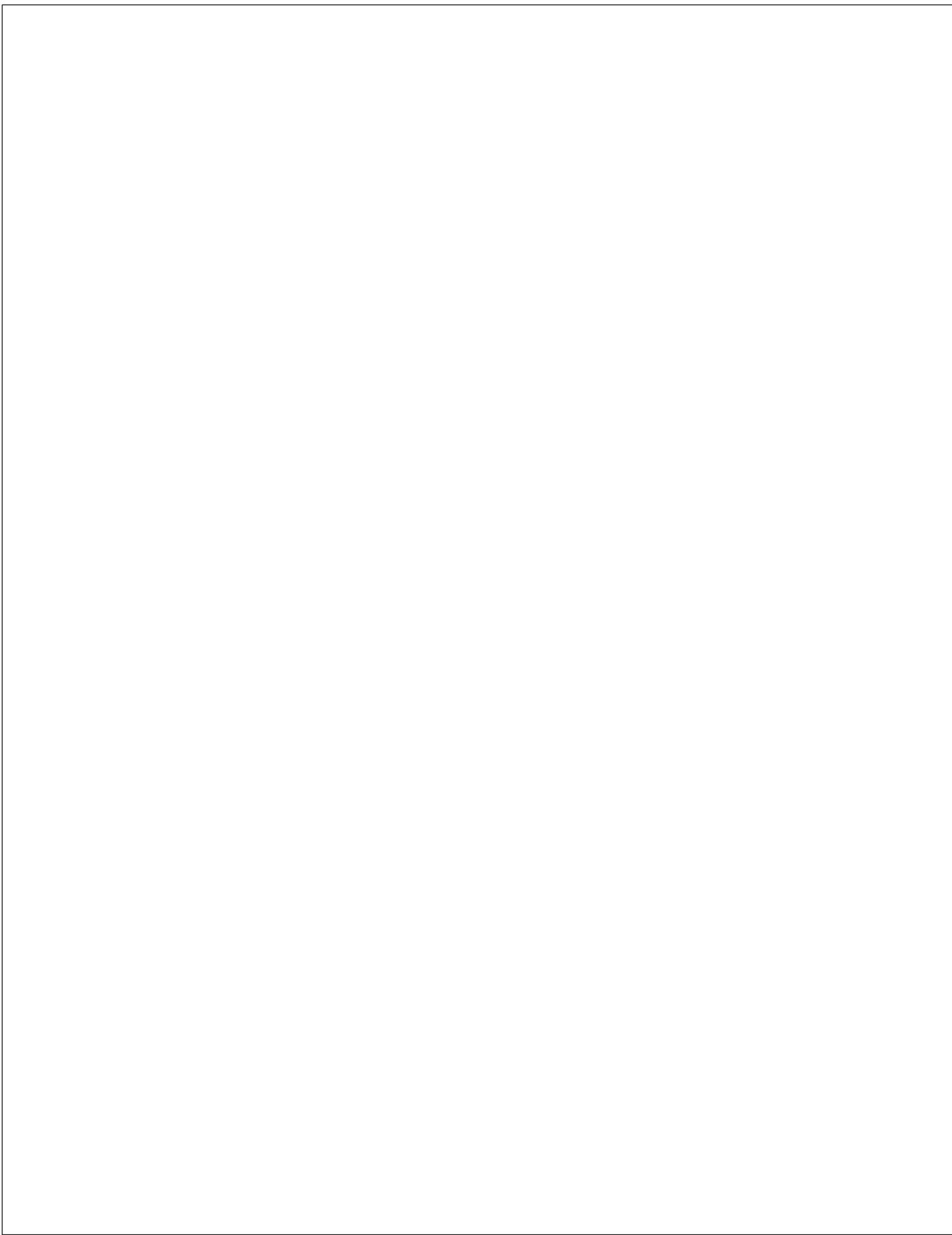
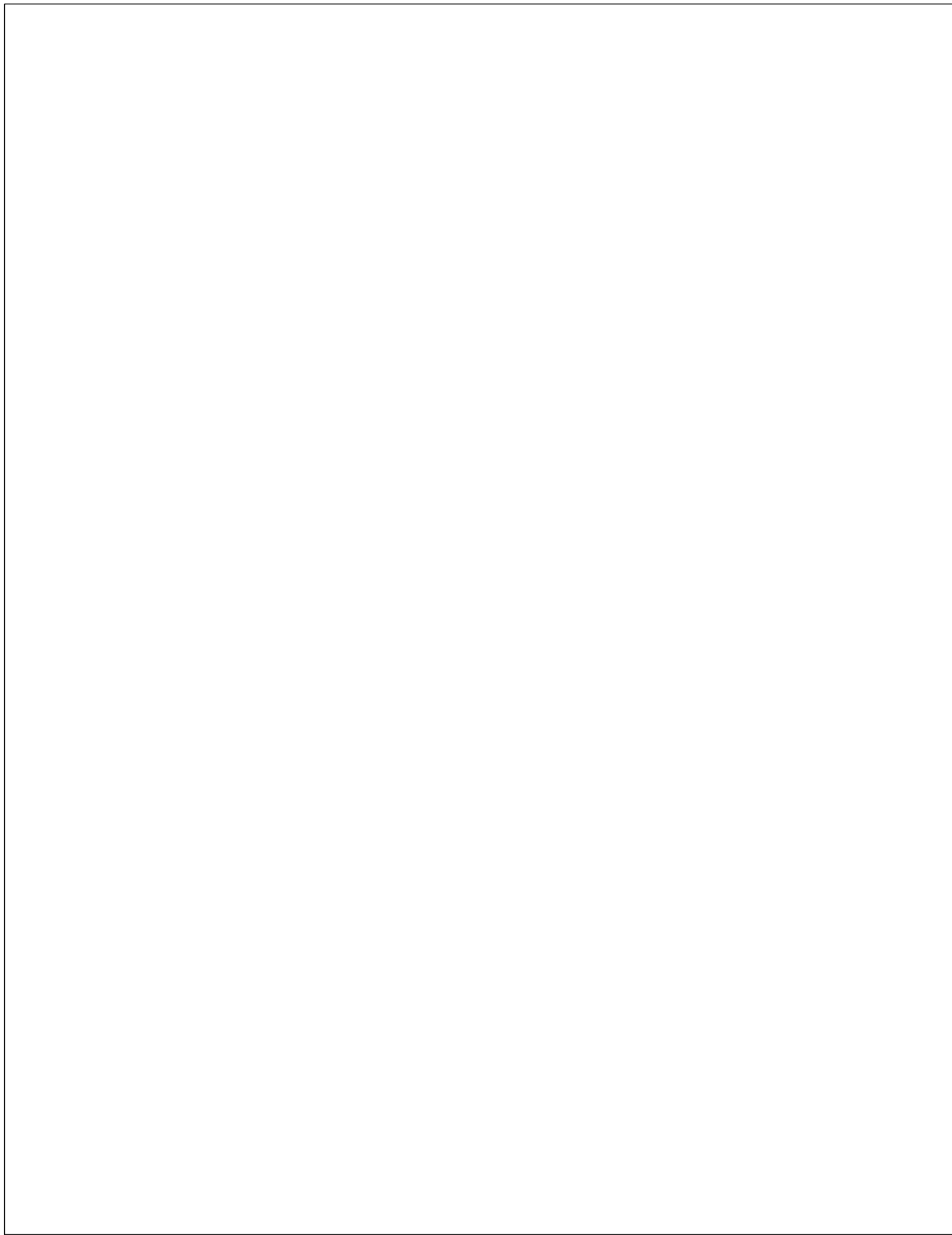
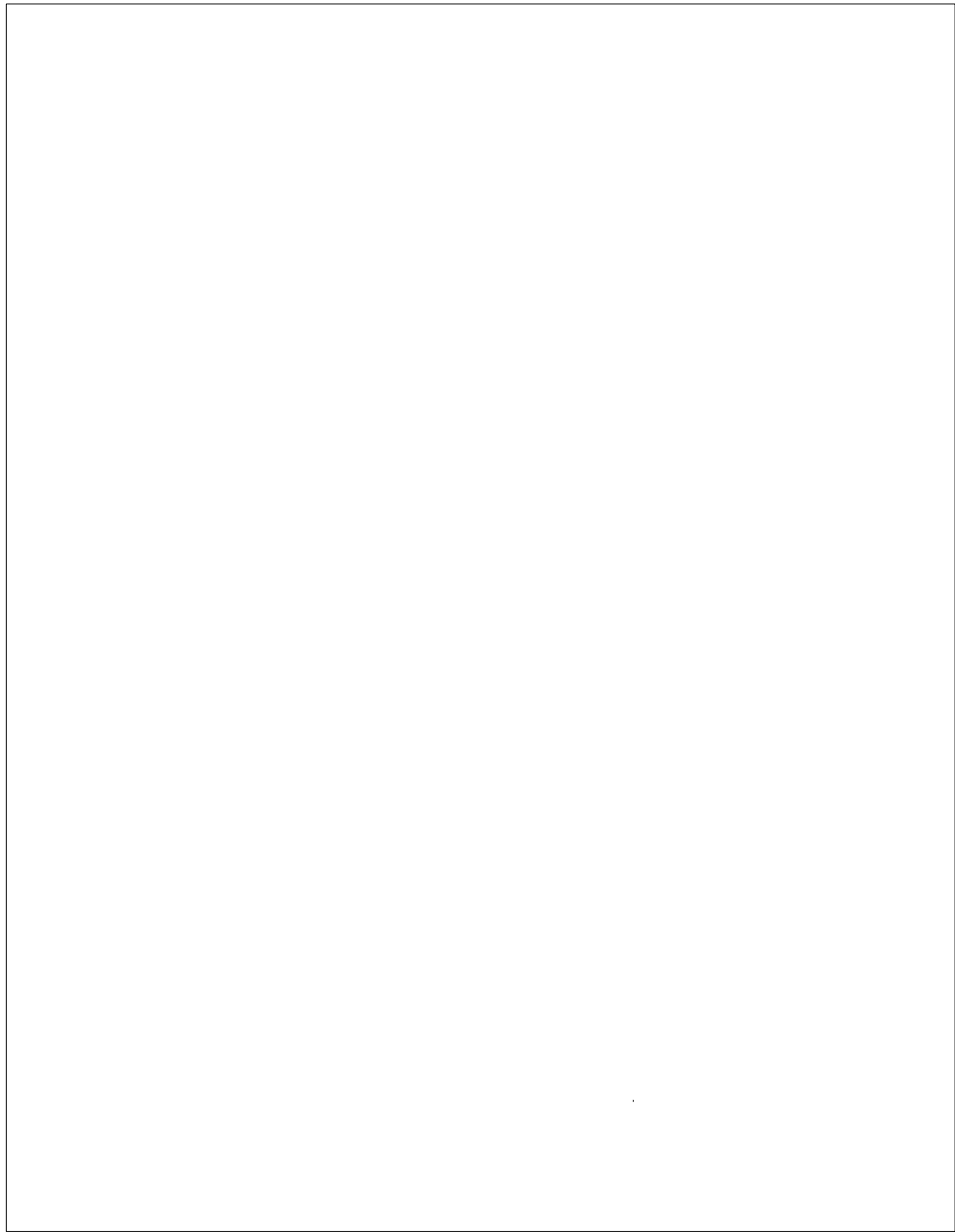


① LANDSCAPE PLAN



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CONSTRUCTION
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HWY. 62 E. MOUNTAIN HOME, AR 72653



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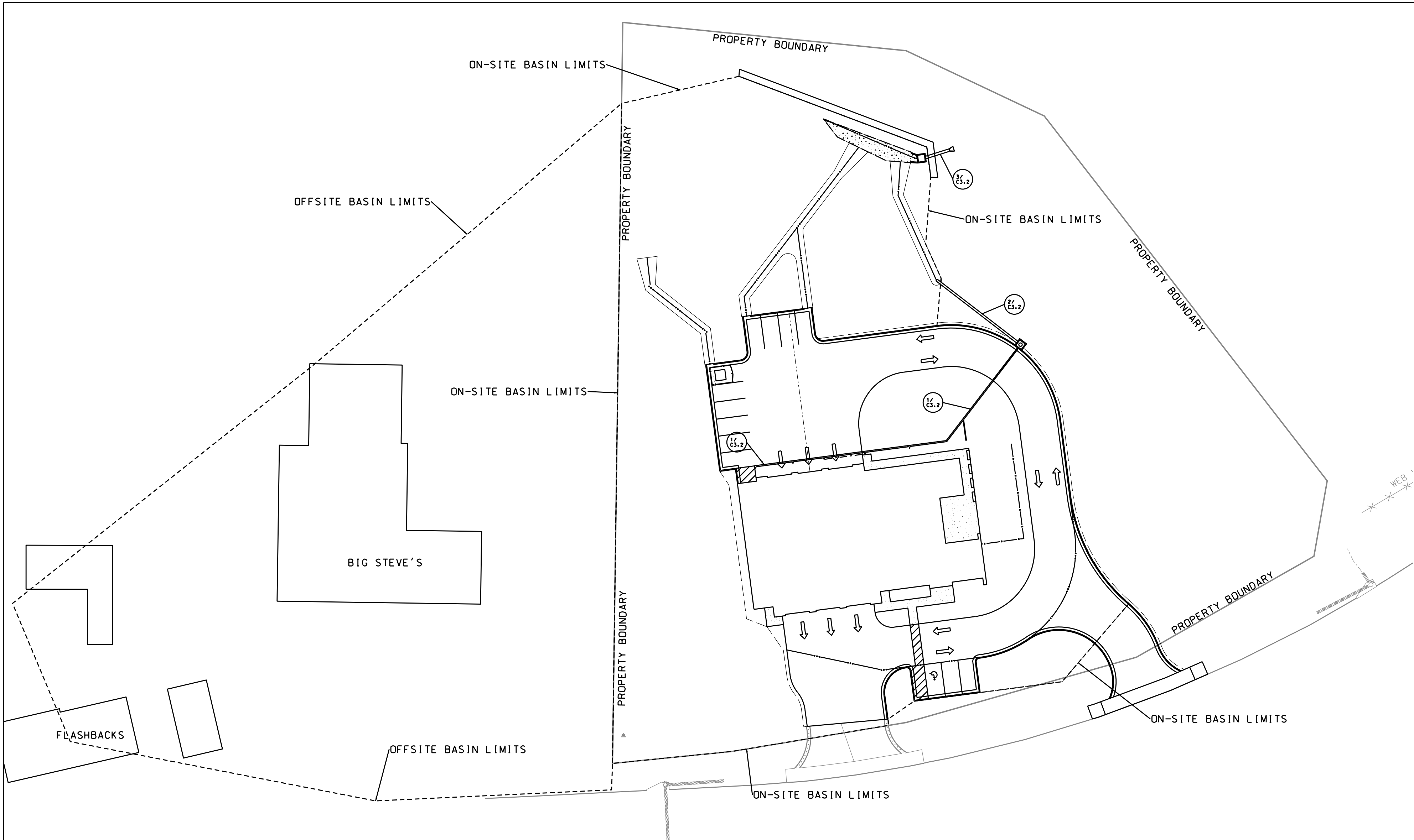
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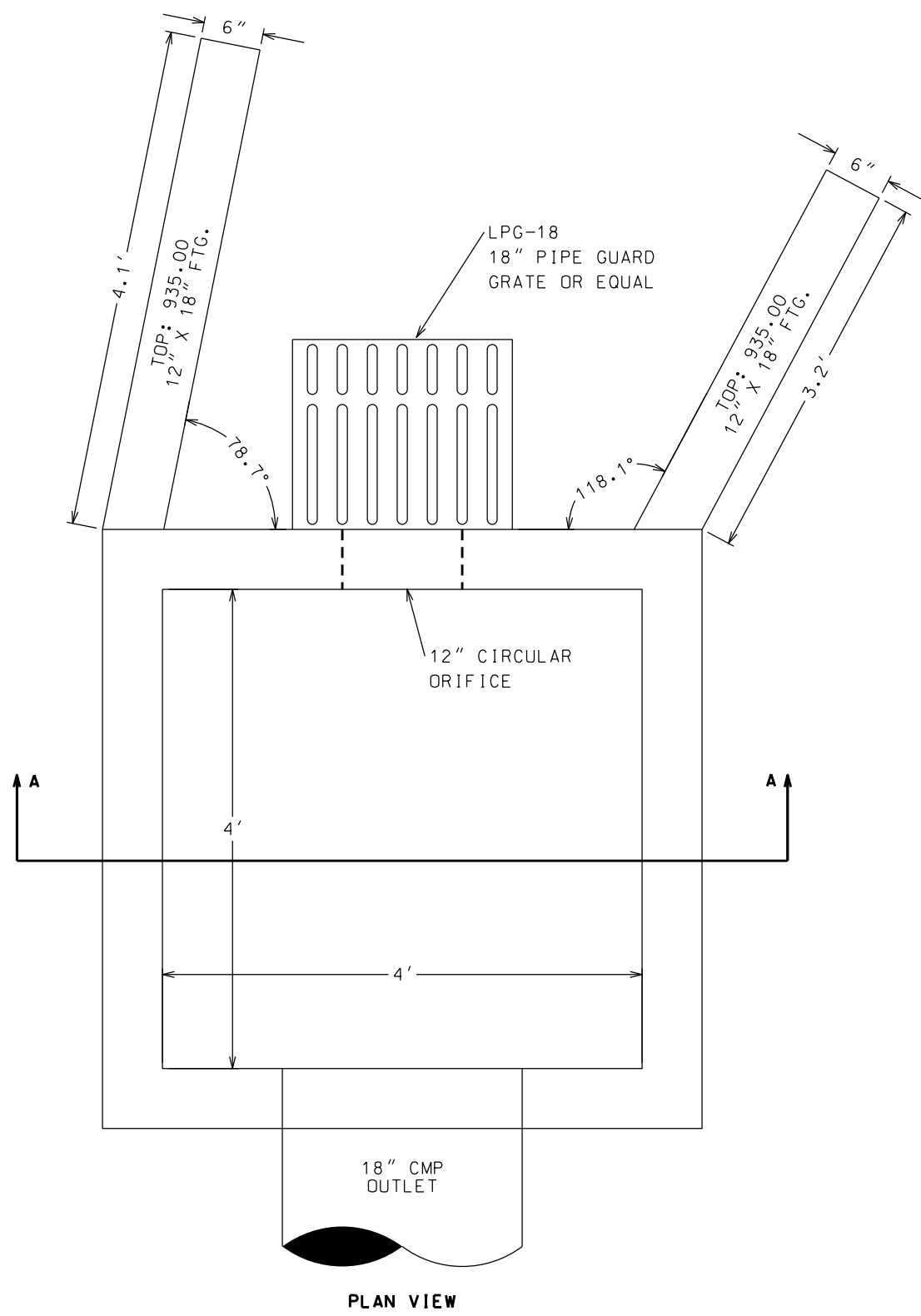
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**LANDSCAPE
NOTES**

SHEET
C2.2

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1 STORMWATER CONTROL PLAN



NOTE:
OUTLET STRUCTURE SHALL HAVE #4
BARS @ 10" CENTERS EACH WAY IN
WALLS & FLOOR

SECTION A-A

4 OUTLET CONTROL BOX DETAIL

APPROVAL
CITY OF MOUNTAIN HOME STREET DEPT.

[] NO EXCEPTION TAKEN - CONSTRUCTION MAY PROCEED
[] MAKE CORRECTIONS NOTED - DO NOT RESUBMIT
[] MAKE CORRECTIONS NOTED - RESUBMIT
[] REJECTED
THESE PLANS WERE REVIEWED FOR GENERAL COMPLIANCE
WITH THE APPLICABLE CITY CODES GOVERNING
CONSTRUCTION. SUCH REVIEW DOES NOT RELIEVE
EITHER THE OWNER OR HIS ARCHITECT/ENGINEER,
SURVEYOR, OR CONTRACTOR OF RESPONSIBILITY FOR THE
STRICT COMPLIANCE WITH THE VARIOUS CITY
CODES AND REGULATIONS. ANY CHANGES TO THESE
PLANS SHALL BE SUBMITTED FOR REVIEW PRIOR TO
ORDERING CONSTRUCTION FOR SUCH CHANGE.
CITY OF MOUNTAIN HOME, ARKANSAS
REVIEWED BY _____
TITLE _____
DATE _____

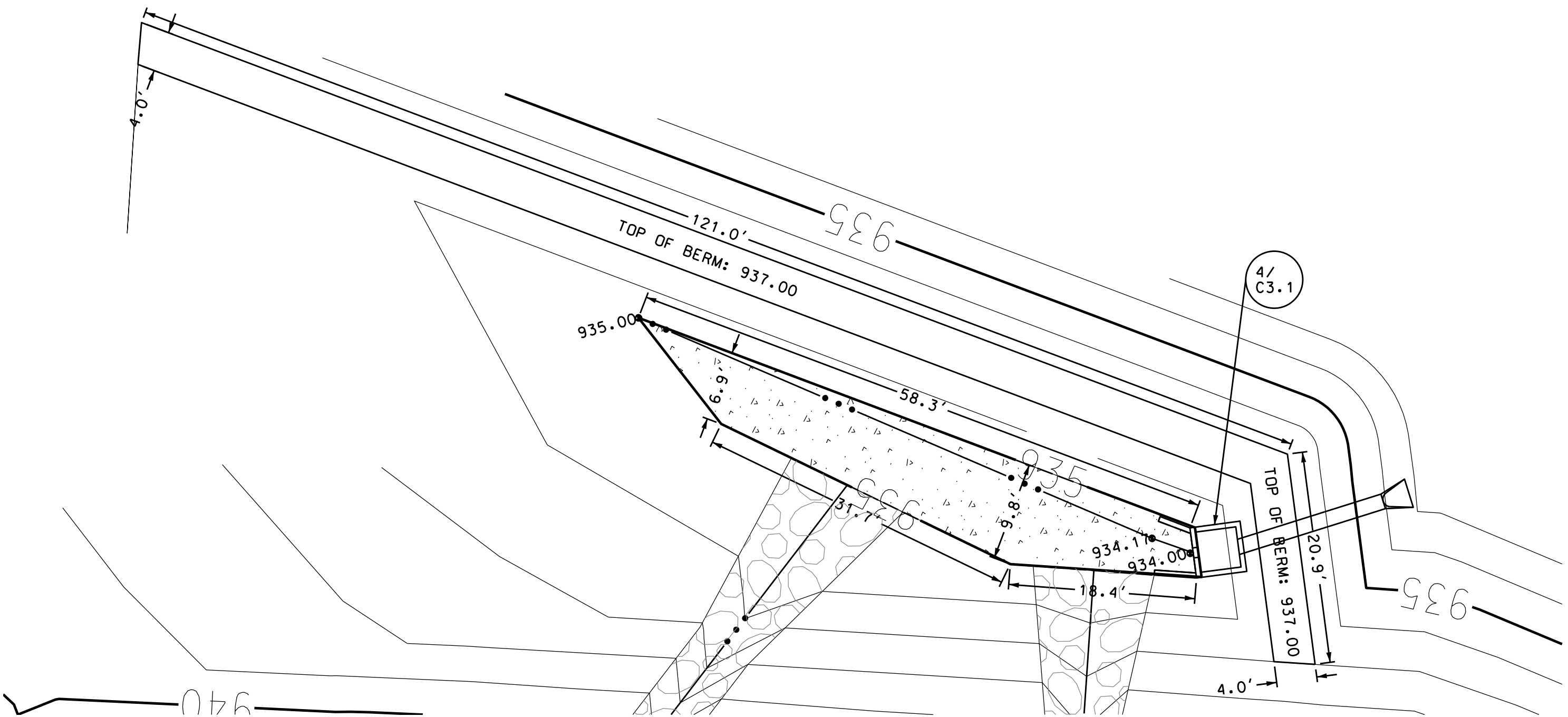


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Detention Information:	
Total Site Area:	3.00 Acres
Proposed Impervious Area:	0.77 Acres
C _{pre} :	0.33
C _{post} :	0.48
Based on a 25 Year/20 Minute Event:	
Q _{pre} :	5.2 CFS
Q _{post} :	7.5 CFS
Area of site not routed through pond:	1.03 Acres
Off-site area through pond:	1.95 Acres
Detention required for this site:	1,530 FT ³
Detention provided @ 936.50/top of box :	1,895 FT ³
Orifice & Overflow:	
Flow leaving site not through detention pond (C=0.48):	2.6 CFS
Off-site flow through detention pond (C=0.33):	3.4 CFS
Allowable release from detention pond:	6.0 CFS
12" circular orifice flowline:	934
Flow release @ 936.50':	5.3 CFS
100 year/20 minute storm (through pond):	10.2 CFS
Overflow capacity @ 937.00':	17.5 CFS
18" CMP outlet capacity @ 6.00% slope:	15.0 CFS

3 DETENTION INFORMATION



2 DETENTION POND DETAIL

CONSTRUCTION
DOCUMENTS

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**STORMWATER
CONTROL PLAN**

SHEET
C3.1

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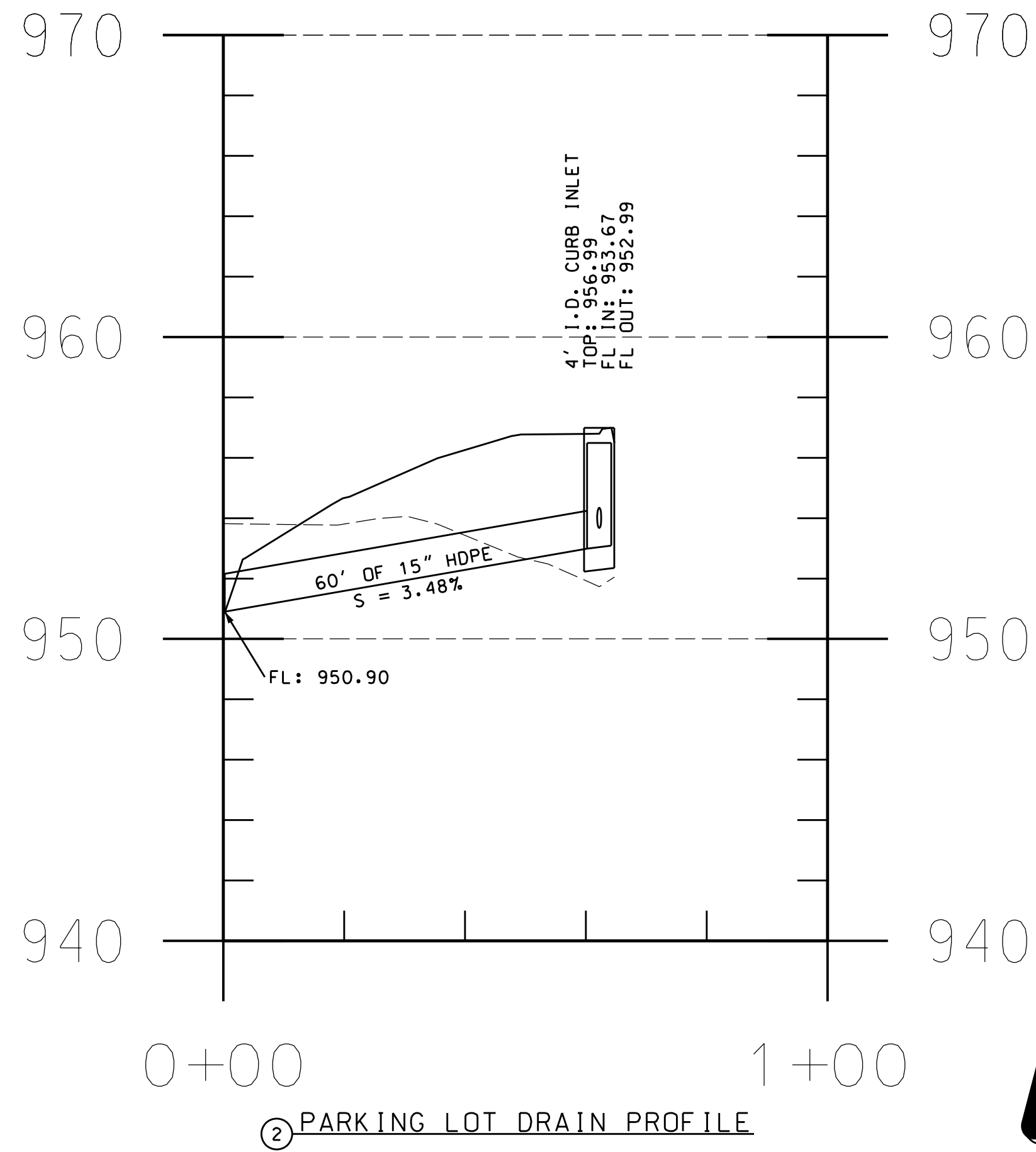
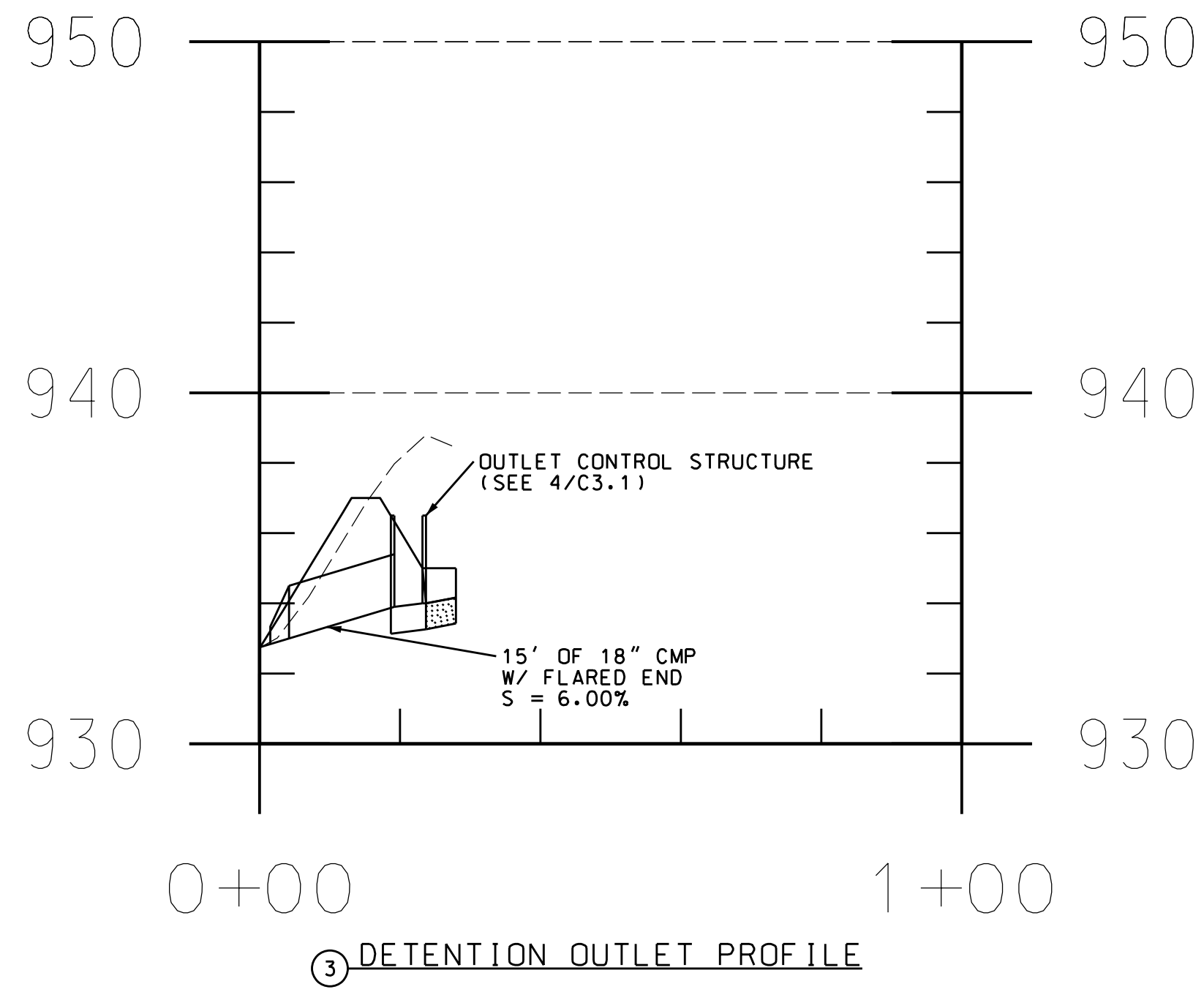
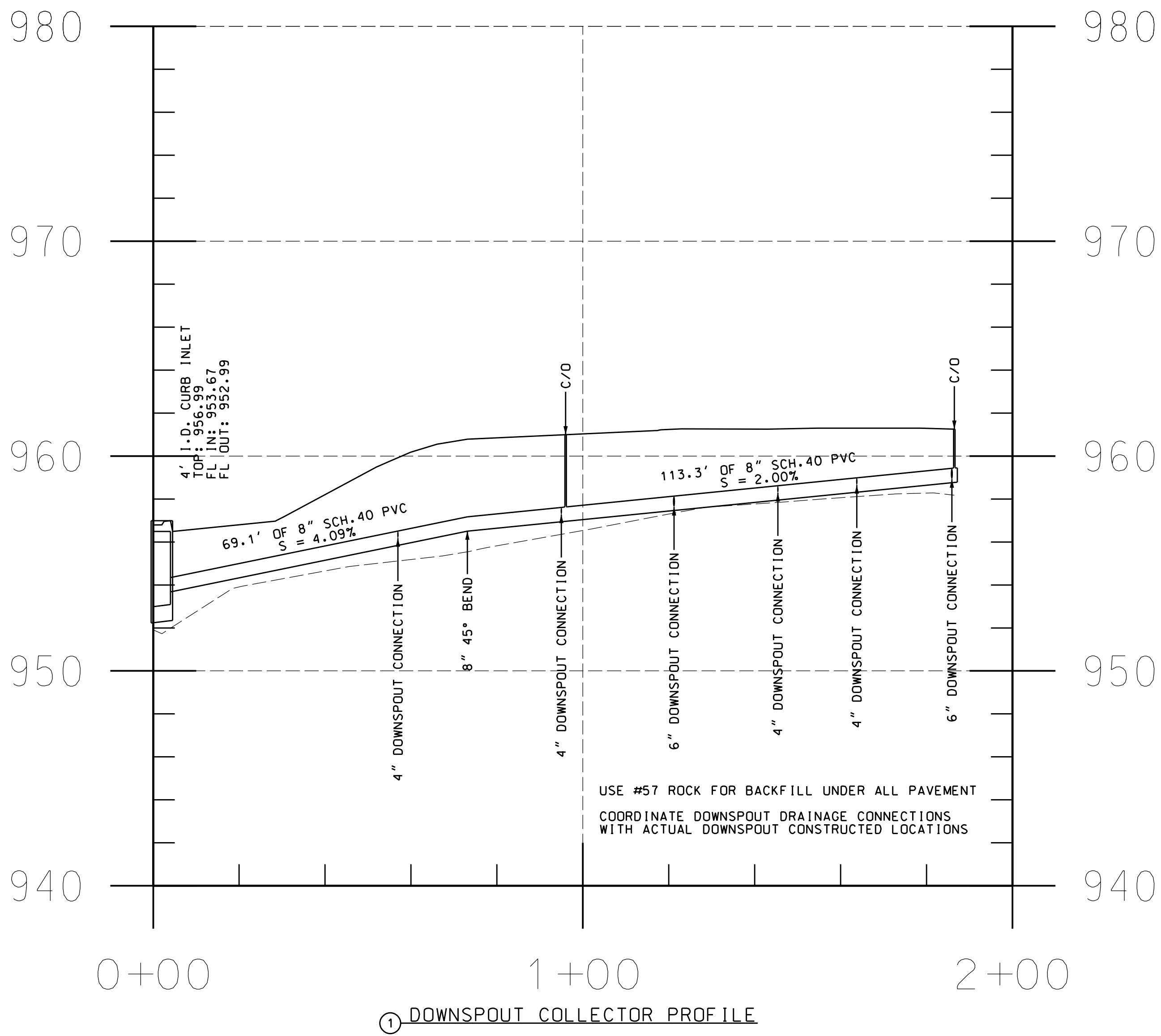
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CONTENTS
**STORMWATER
PROFILES**

SHEET
C3.2

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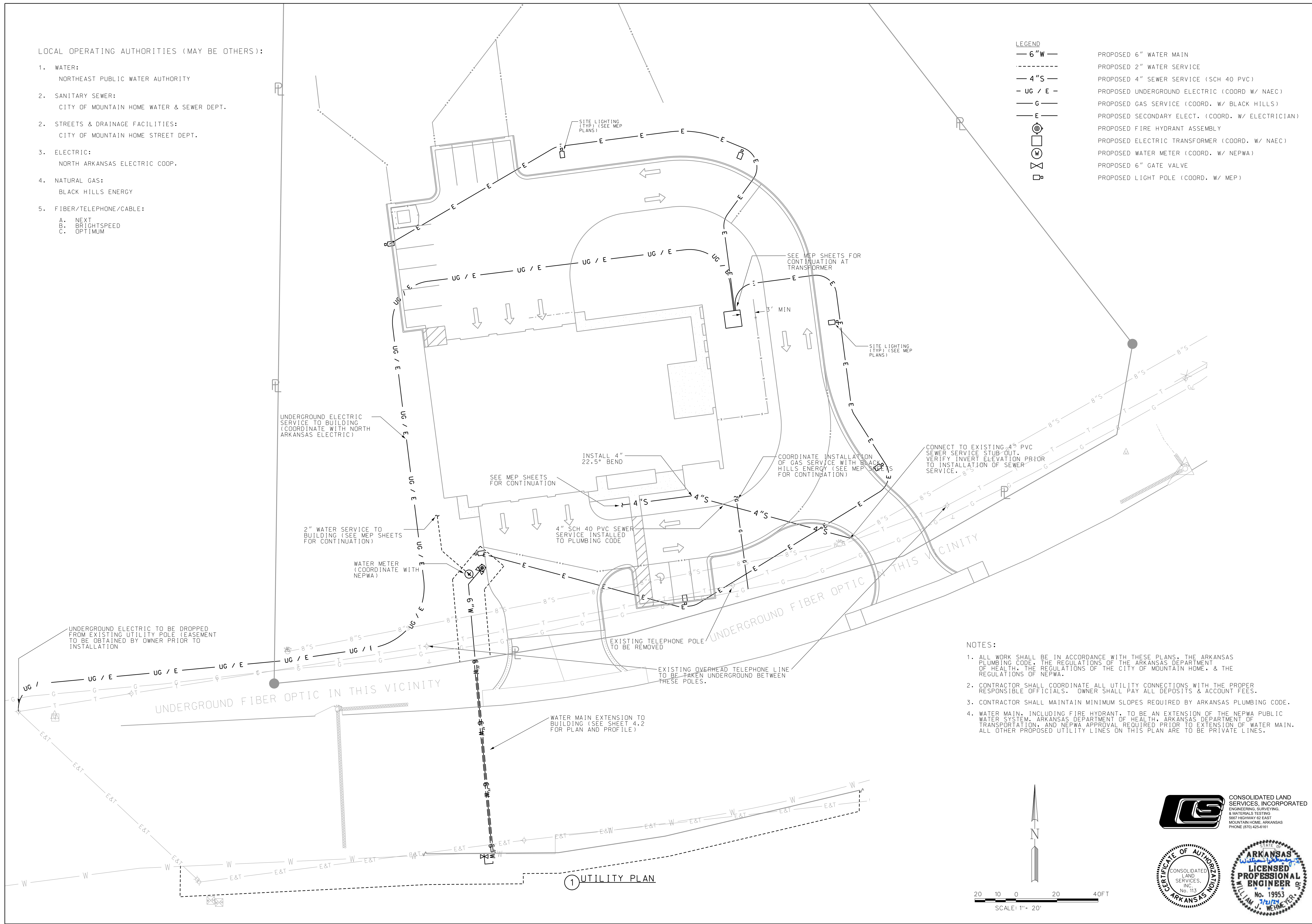
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UTILITY PLAN

SHEET
C4.1

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CONTENTS
**WATER MAIN
PLAN &
PROFILE**

SHEET
C4.2

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FLOW DATA AT
CONNECTION POINT:
36.355150, -92.351695
STATIC PRESS: 26 PSI
RESID PRESS: 25 PSI @ 500 GPM

STA 0+00
INSTALL 8"x6" TAPPING TEE &
VALVE & 48" LONG MJ COUPLER.
TAP NEW MAIN W/ CORP STOP
WITHIN 10' OF CONNECTION POINT
FOR DISINFECTION OF NEW LINE.
BEGIN CLS CONSTRUCTION OBSERVATION.

STA 0+05
INSTALL 6" MJ 90° BEND HARD
CONNECTED TO ANCHOR COUPLING
FROM N & E. INSTALL 48" ANCHOR
COUPLING TO E SIDE OF 90.

STA 0+09
INSTALL 6" MJ 90° BEND HARD
CONNECTED TO ANCHOR COUPLING
FROM WEST.

APPROXIMATE ROW

EXISTING WATER LINE EASEMENT
(OWNER TO OBTAIN TEMPORARY
CONSTRUCTION EASEMENT FOR
INSTALLATION OF WATER MAIN
EXTENSION)

INSTALL APPROXIMATELY
94' OF 12" STEEL ENCASEMENT
BY BORING UNDER HWY 62 E PER
ARDOT UTILITY ACCOMMODATION
POLICY

STA 1+49
INSTALL WATER METER
FOR SERVICE (COORDINATE
WITH OWNER AND NEPWA)

STA 1+45
INSTALL 6" 45° MJ BEND

WATER SERVICE
TO BUILDING

PROPOSED 15' WIDE
UTILITY EASEMENT

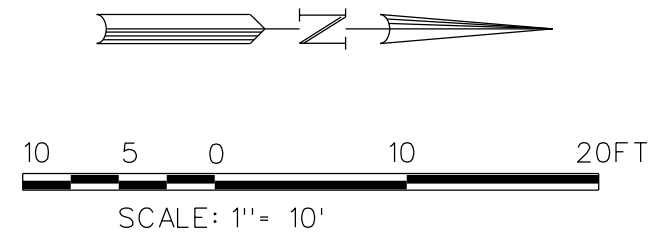
STA 1+56
INSTALL 6" GATE VALVE, 12" LONG
MJ COUPLER, & END OF LINE FIRE
HYDRANT ASSEMBLY. END CLS
CONSTRUCTION OBSERVATION.
STATIC PRESS AT HYD: 27 PSI
RESID PRESS AT HYD: 25 PSI AT 500 GPM

APPROVAL: NORTHEAST PUBLIC WATER AUTHORITY

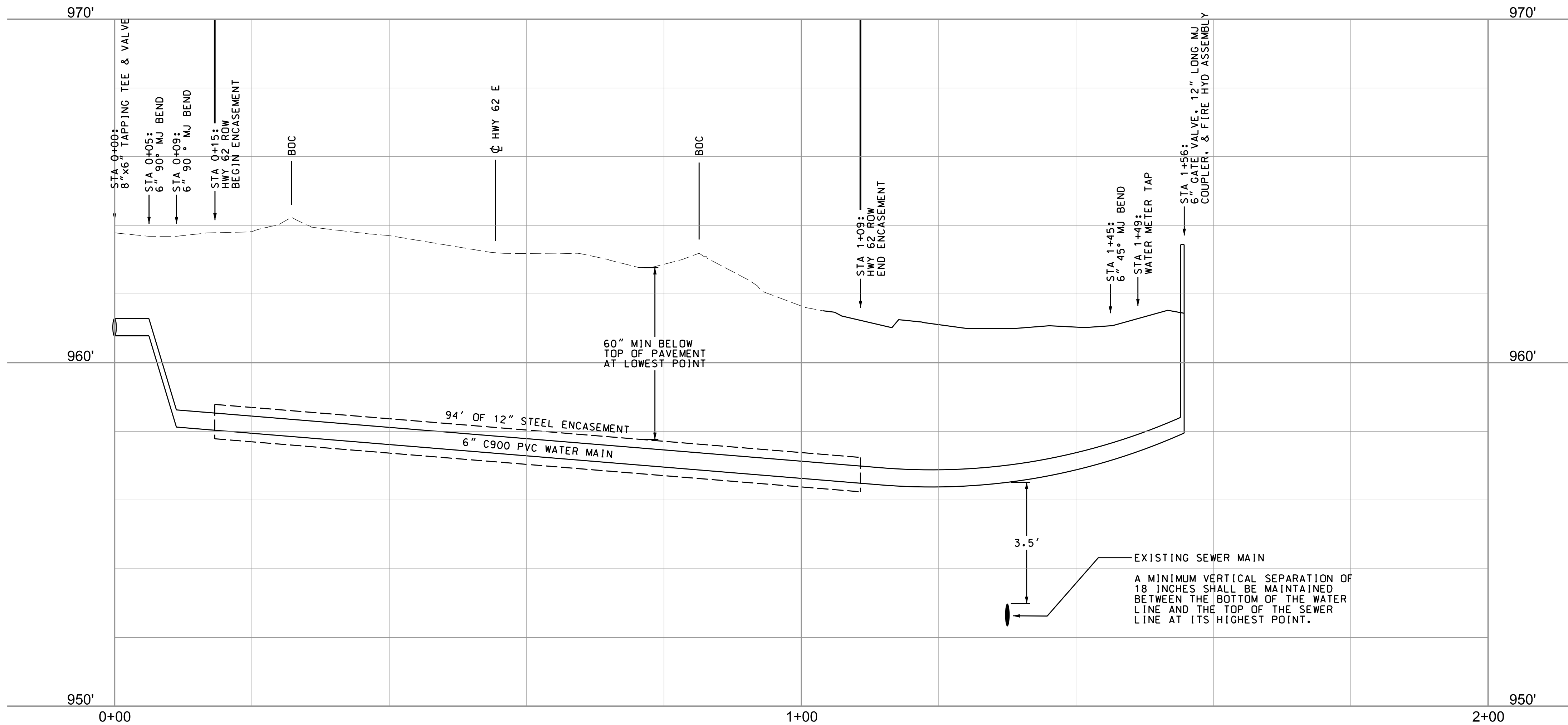
WATER APPROVAL



3-22-24
DATE



1 WATER MAIN EXTENSION PLAN



2 WATER MAIN EXTENSION PROFILE



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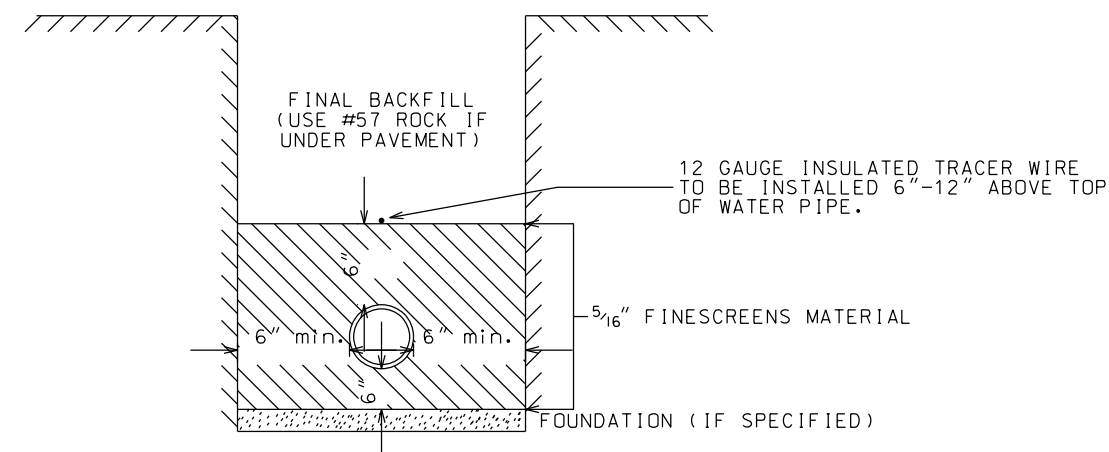
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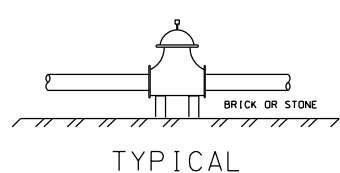
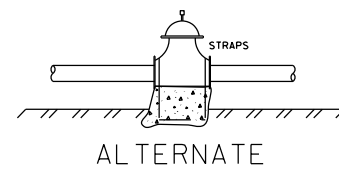
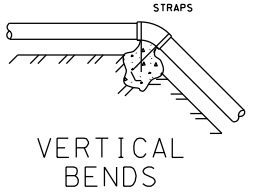
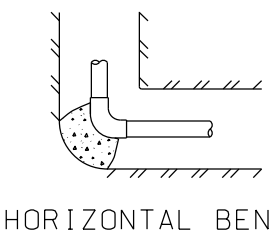
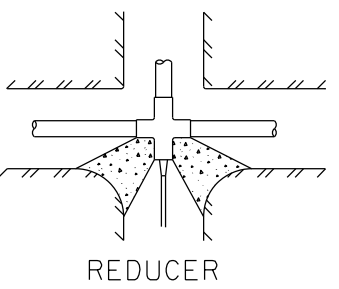
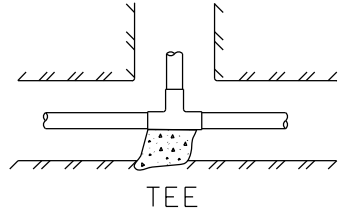
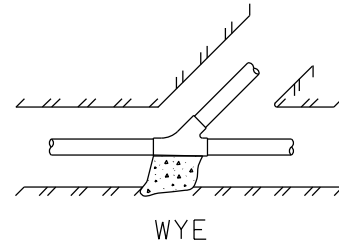
SHEET
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**WATER MAIN
DETAILS**

SHEET
C4.3

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① TRENCH DETAIL



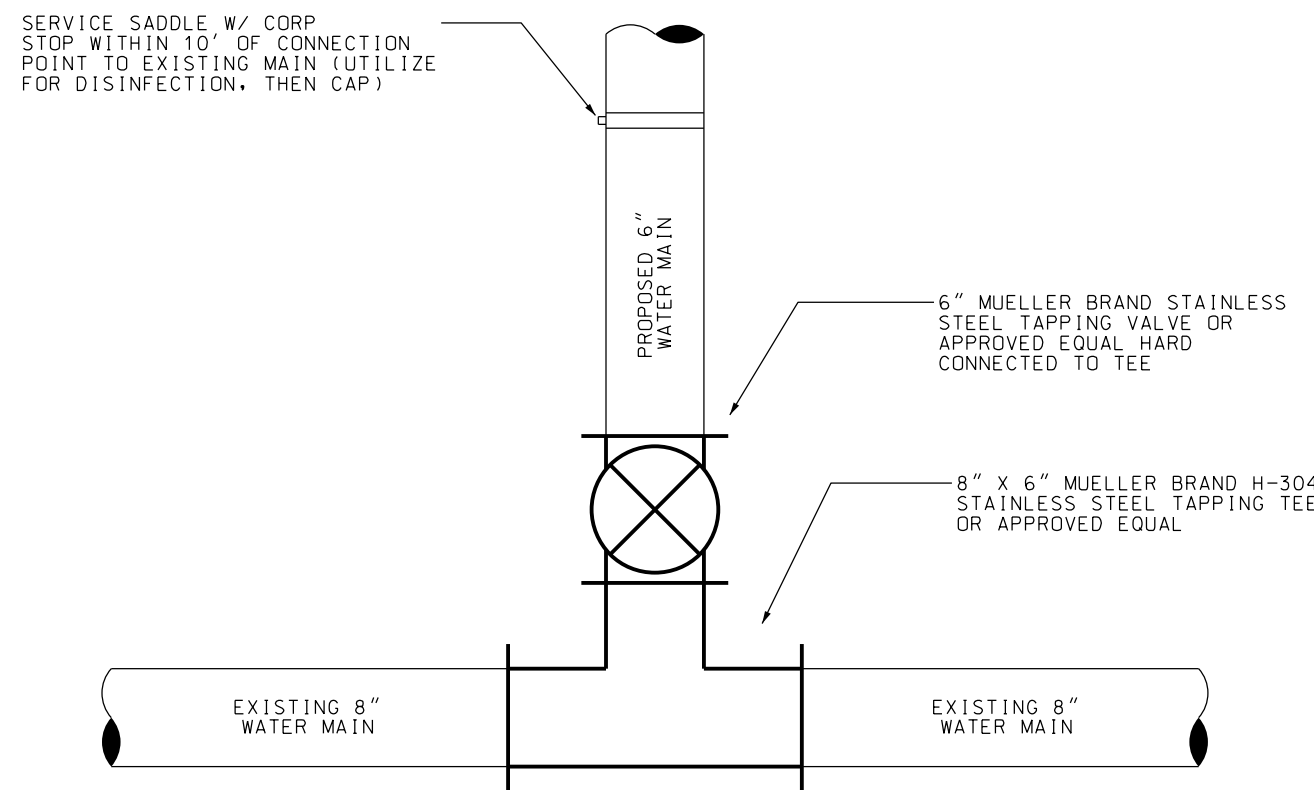
- NOTES:
1. ALL BLOCKING SHALL BE AGAINST UNDISTURBED SOIL.
 2. STRAPS SHALL BE 1/2" DIA. REBAR, BENT AS SHOWN
 3. CONCRETE SHALL BE 5 BAG MIX, WITH A MAXIMUM WATER TO CEMENT RATION OF 0.60.

CONCRETE THRUST BLOCKS, MINIMUM BEARING AREA (ft ²)			
Pipe Dia.	90° Bend	11.25°-45° Bends	Tees, Plugs, Caps, & Hydrants
2	0.7	0.4	0.5
3	1.5	0.8	1.1
4	2.7	1.4	1.9
6	6.0	3.3	4.2
8	10.7	5.8	7.5
10	16.7	9.0	11.8
12	24.0	13.0	17.0

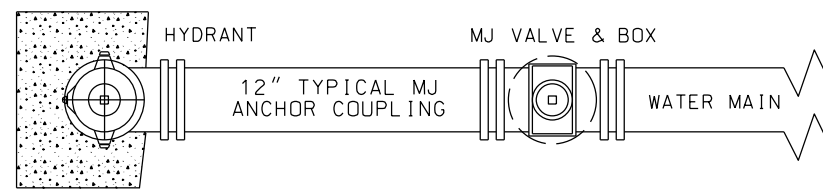
*Based on 150 psi pressure (includes 1.5 safety factor) & soil bearing capacity = 1000 lb/ft²

THRUST @ 150 PSI WATER PRESSURE FOR FITTINGS (lbs)			
Pipe Dia.	90° Bend	11.25°-45° Bends	Tees, Plugs, Caps, & Hydrants
2	670	360	470
3	1500	810	1060
4	2670	1440	1890
6	6000	3250	4240
8	10660	5770	7540
10	16660	9020	11780
12	23990	12980	16970

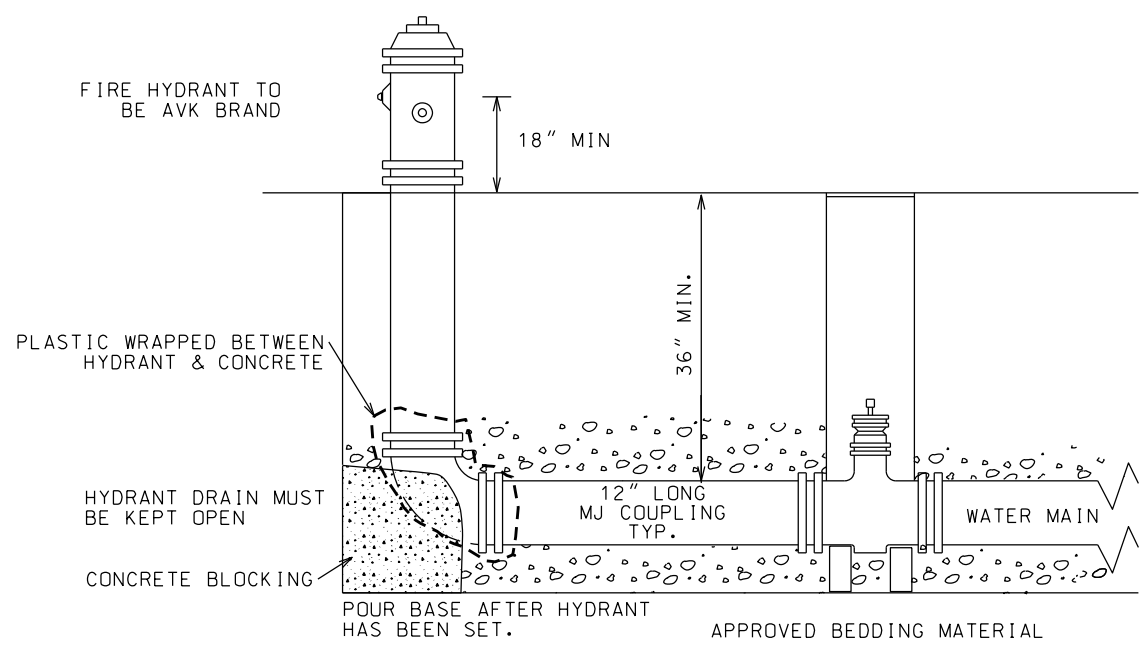
③ TYPICAL THRUST BLOCKING



⑤ TAPPING TEE & VALVE DETAIL

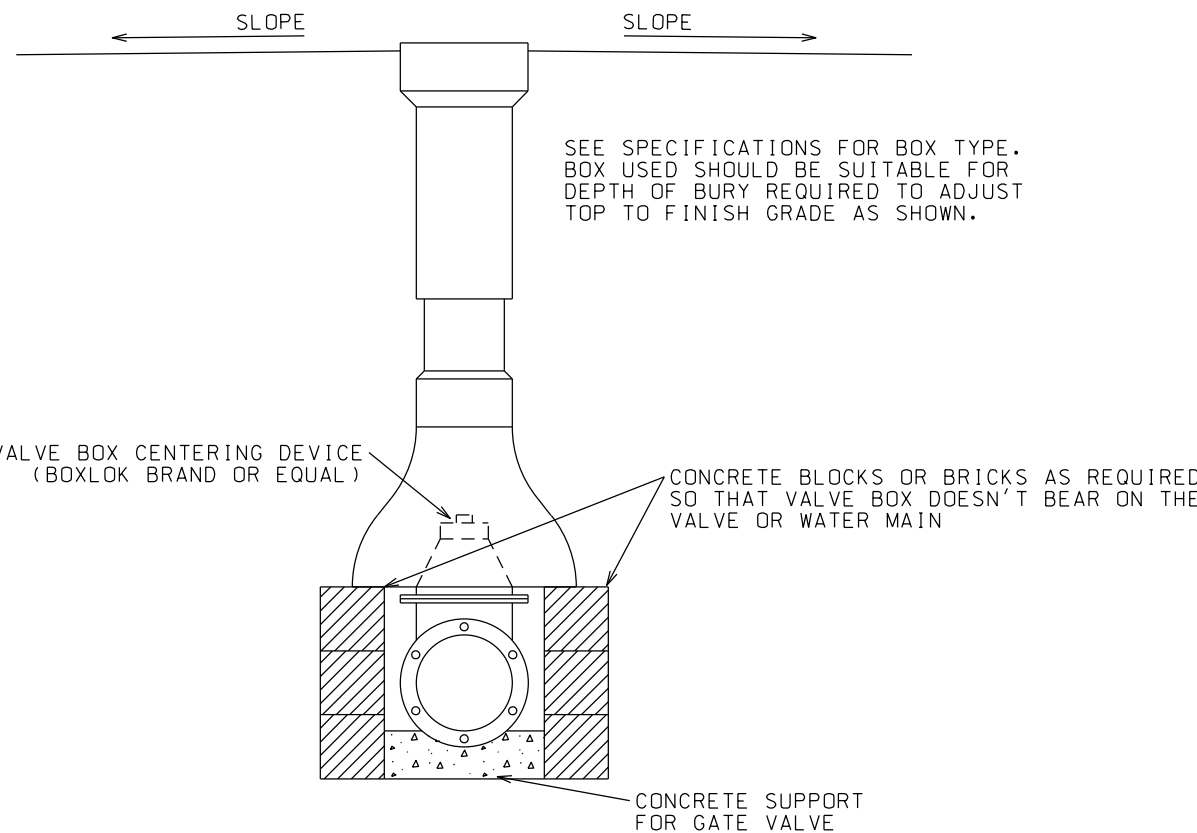


PLAN

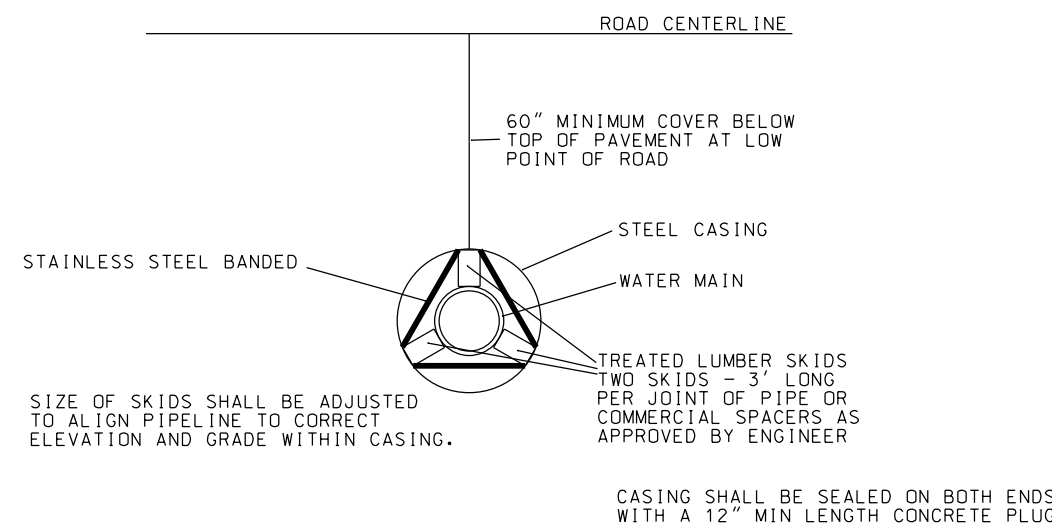


ELEVATION

② FIRE HYDRANT ASSEMBLY



④ GATE VALVE BOX DETAIL



⑥ ROAD BORE DETAIL



CONSOLIDATED LAND
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EMAIL: INFO@MBL-ARCH.COM
WWW.MBL-ARCH.COM



CITY OF MOUNTAIN HOME, ARKANSAS
FIRE STATION #2
HWY. 62 E. MOUNTAIN HOME, AR 72653



I.D.	REVISION	DATE

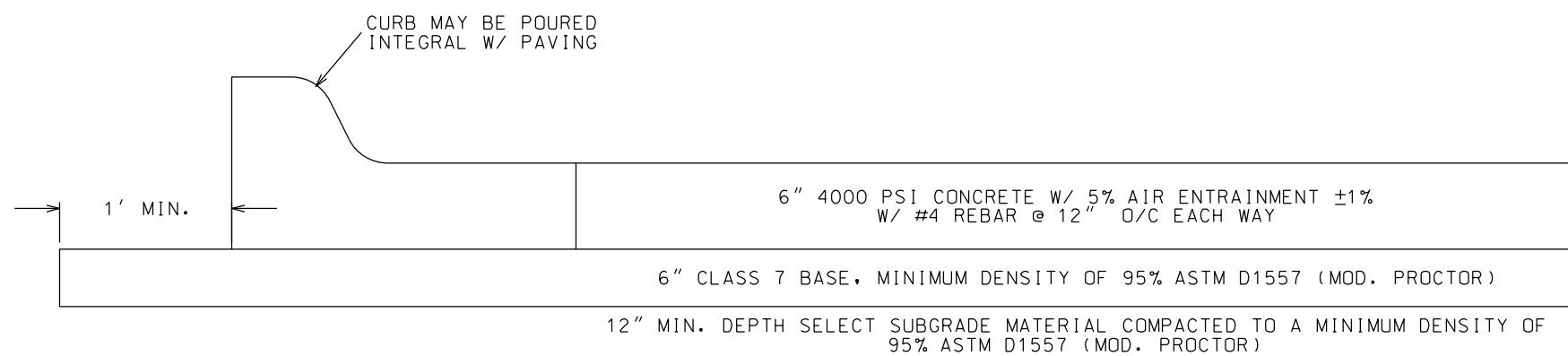
MBL JOB NO.
#230006

ISSUE DATE
04/23/2024

SHEET
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**CIVIL
DETAILS**

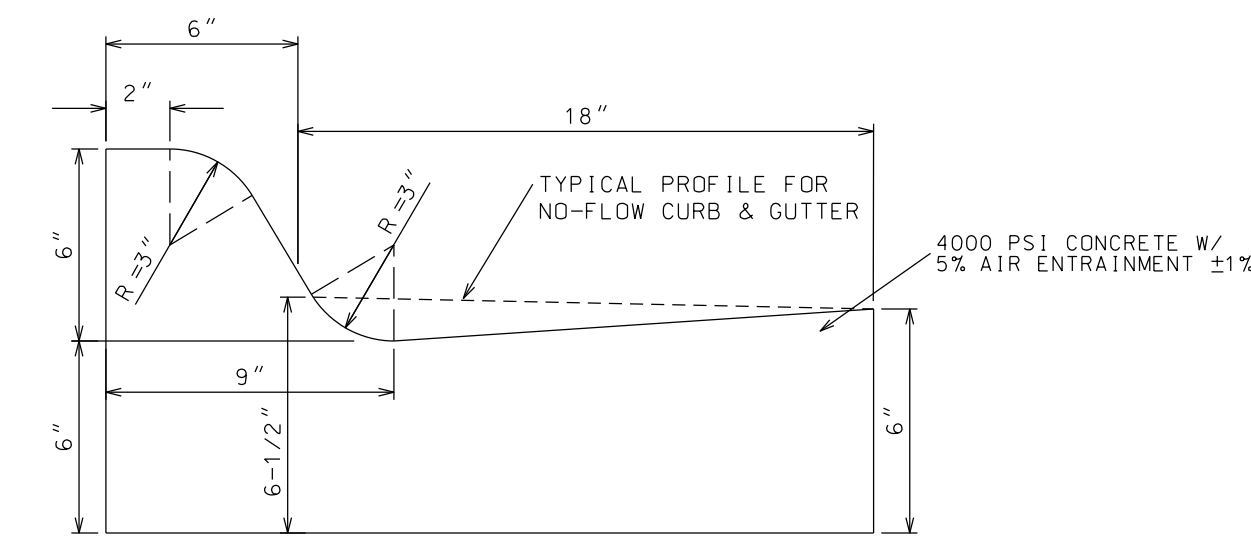
SHEET
C5.1

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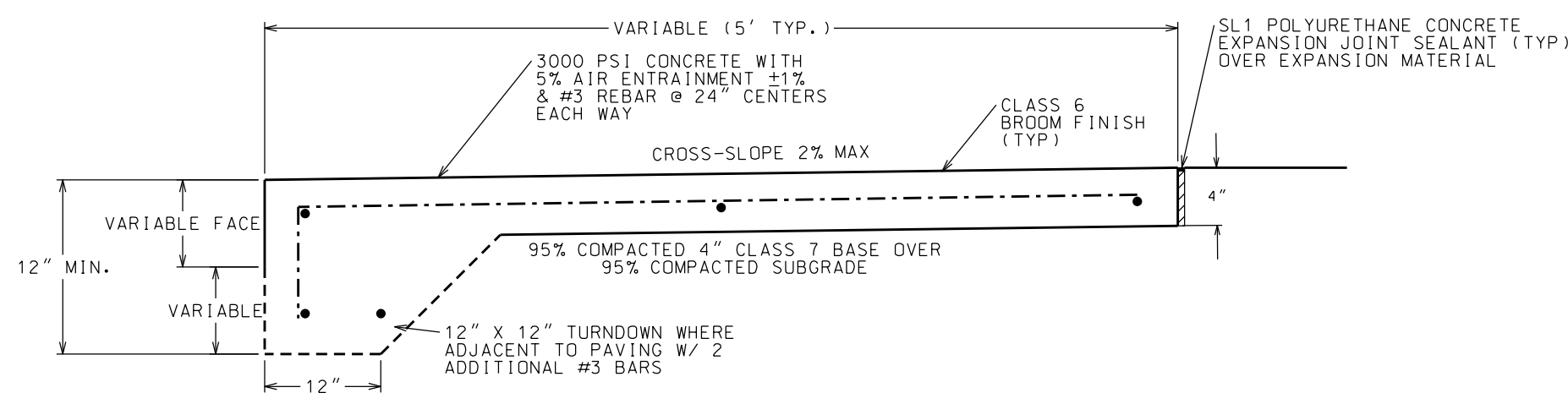


NOTE: SUBGRADE WILL BE PROOF-ROLLED
& ANY UNSATISFACTORY AREAS WILL BE
OVER-EXCAVATED & REPLACED WITH
SELECT BORROW MATERIAL OF GC, GM, SG,
OR GW CLASSIFICATION.

1 HEAVY DUTY CONCRETE SECTION

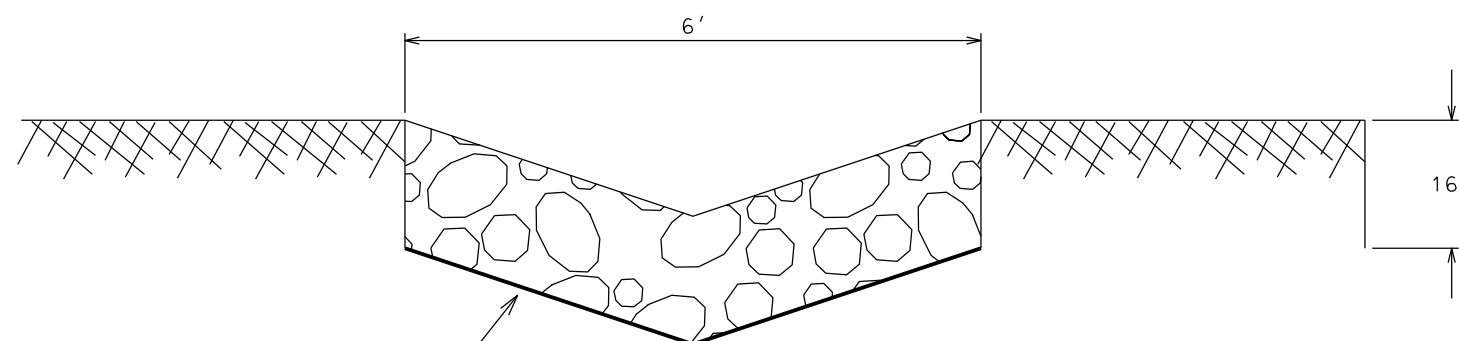


2 TYPE A COMBINATION
CONCRETE CURB & GUTTER

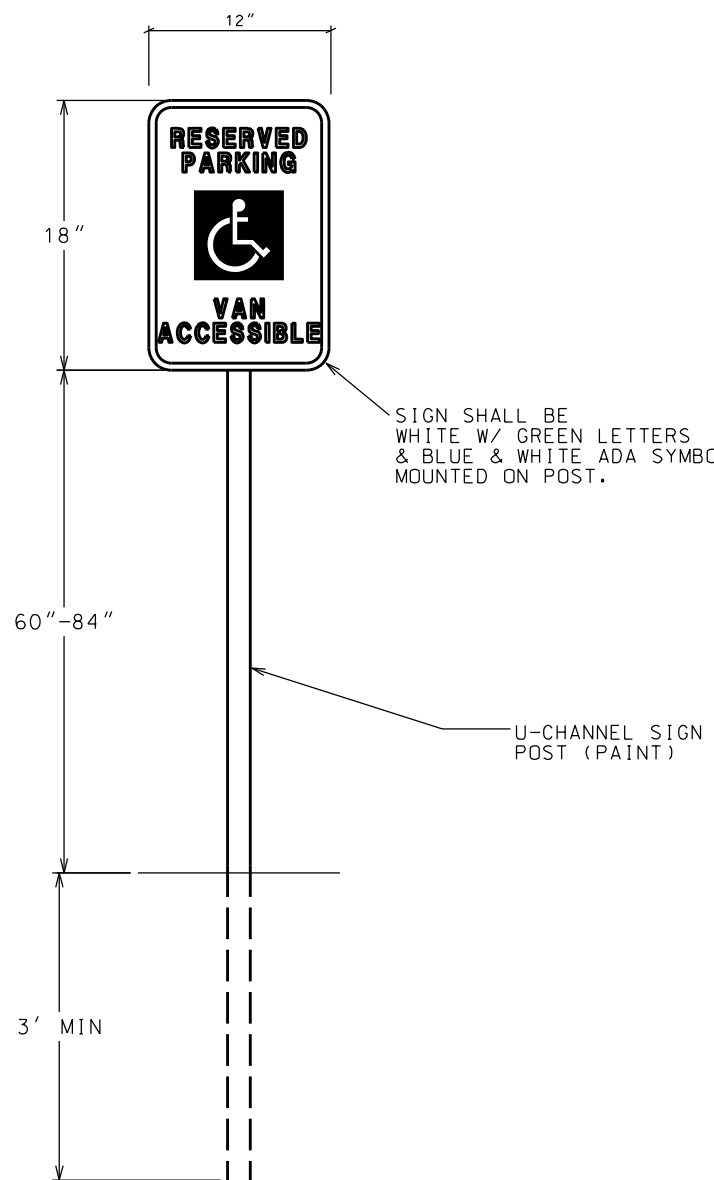


3 TYPICAL SIDEWALK SECTION

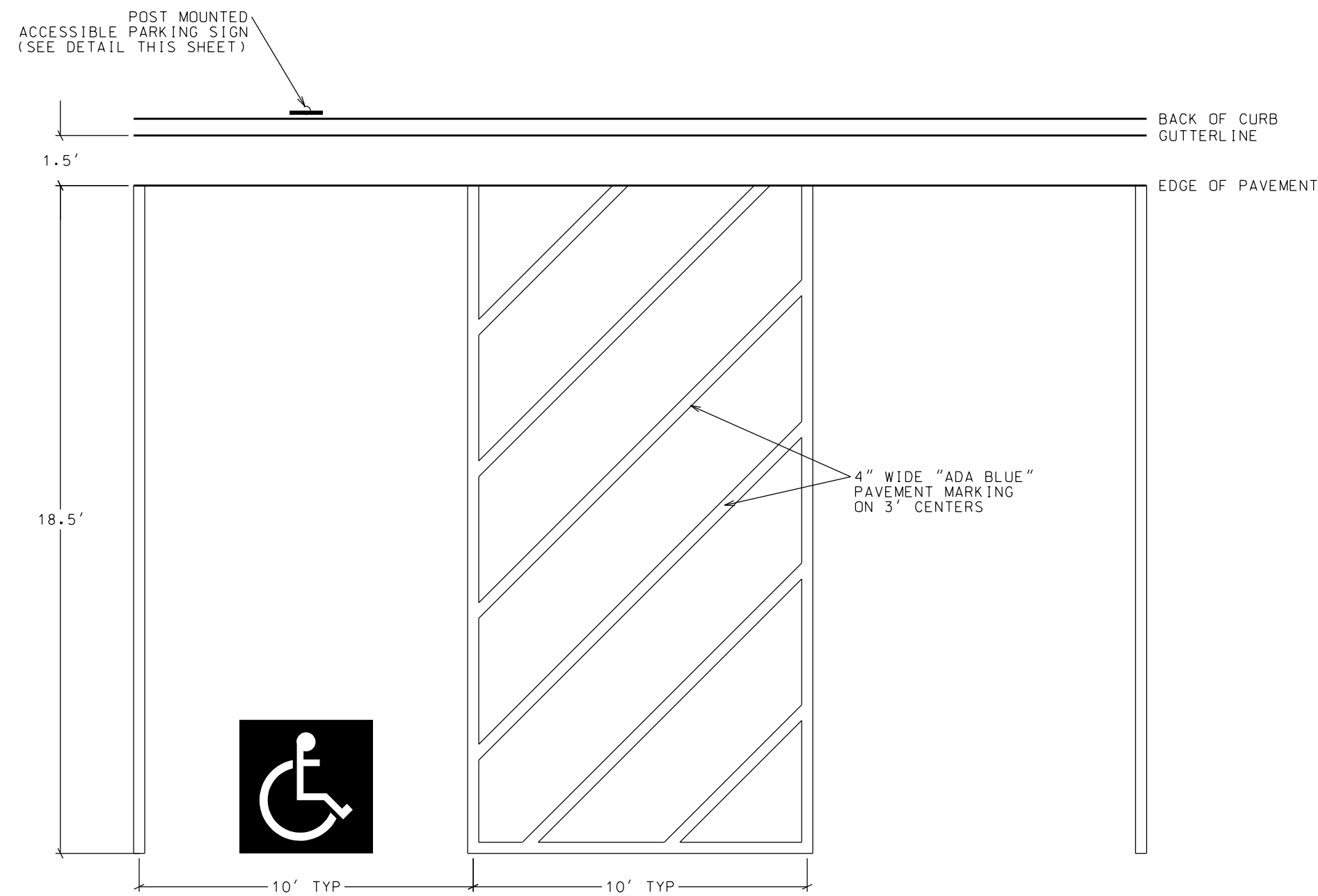
-16" DEPTH OF 8" RIP RAP
-DEPTH OF SVALES TO BE A MINIMUM OF 9" ON LOW SIDE
(SEE GRADING PLAN FOR ACTUAL DEPTHS)
-SIDE SLOPE OF SVALES TO 3:1 TYPICAL (STEEPER
SLOPES MAY BE NECESSARY WHERE 9" MINIMUM DEPTH
CANNOT BE OBTAINED)



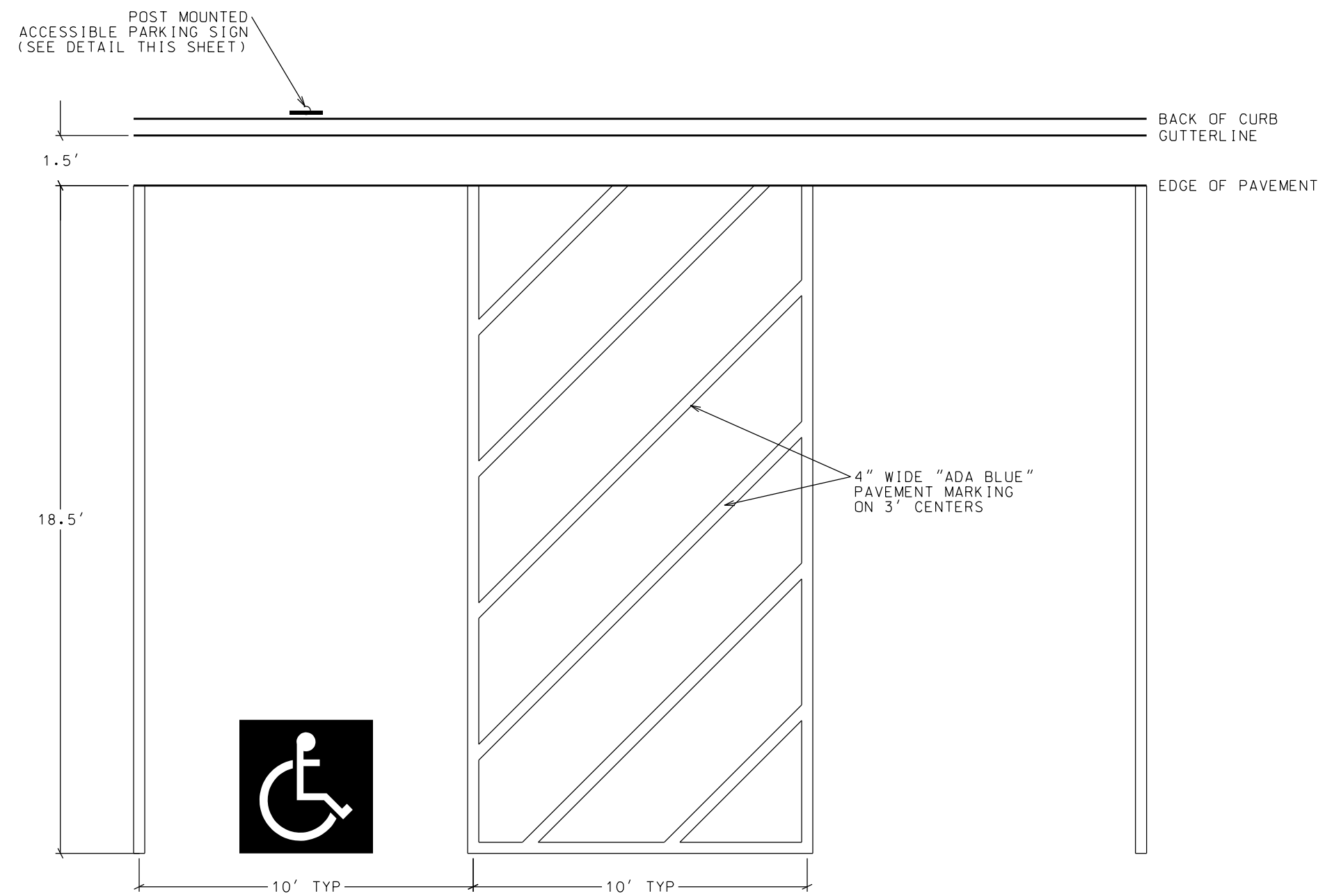
4 RIP RAP SWALE



5 ACCESSIBLE PARKING SIGN
SIGN AND POST PROVIDED
AND INSTALLED BY G.C.



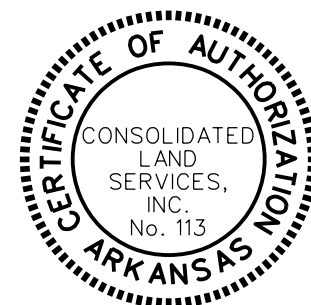
6 CURB INLET DETAIL



7 ACCESSIBLE PARKING DETAIL



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STATE OF
ARKANSAS
LICENSED
PROFESSIONAL
ENGINEER
No. 19953
WILLIAM J. WEHMEYER, JR.
4/23/24

GENERAL NOTES

DESIGN PARAMETERS

Discrepancies - When discrepancies exist between the Design Drawings (including this sheet) and the Specifications, the more stringent of the two determined by the engineer shall govern. When discrepancies exist between scaled dimensions in the Design Drawings and the figures written in them, the figures shall govern.

- Design Codes** - (All latest editions unless noted):
 - International Building Code (IBC 2021)
 - American Society of Civil Engineers (ASCE 7-16)Minimum Design Loads for Buildings and Other Structures
- Foundation**
 - Refer to Geotechnical report by GTS, Inc. dated Sept. 29, 2023. Allowable bearing capacity of strip footings and pad footings is 2,500 psf. Undercut building slab down to underlying native soil or limestone. Geotechnical Engineer shall observe and review site conditions during construction to determine amount of undercut.
 - If the soil is of questionable bearing value, the Engineer or Architect shall be notified immediately.
 - After footing excavations are completed and before placing concrete, the excavated areas shall be inspected and approved by the Owner selected independent testing laboratory.
 - The Soils Engineer is the sole judge of suitability of underlying material to support foundations and shall approve bearing material before foundation installation. See specifications.
 - Coefficient of horizontal friction between concrete and soil = 0.35
 - Minimum depth from exterior ground surface to bottom of foundations = 18 inches
 - Prepare site and place fill in accordance with the recommendations in the soils report noted above. Observe construction recommendations noted in the soils report. All fill material shall be in accordance with soils report recommendations.
 - Construct non-basement floor slabs on the granular fill layer required by the plan notes.
 - Backfill basement and retaining walls with ASTM C-33 No. 57 stone or equivalent approved by the soils Engineer. Extend stone from the base of walls outward at a 45 degree angle to the vertical.
 - Backfilling:
 - Do not backfill basement walls and grade beams until bracing floors are in place or temporary bracing is installed.
 - Backfill in even lifts alternating from side to side.
 - Backfill under foundations with concrete or as approved by soils Engineer.

- Roof Load**
 - Roof Dead Load 20 psf
 - Roof Live Load 20 psf
- Floor Load**
 - Mezzanine Dead Load 25 psf
 - Mezzanine Live Load 100 psf
- Wind Load**
 - Wind Speed 117 mph (ULT), 91 mph (ASD)
 - Wind Exposure Category B
 - Internal Pressure Coefficient GC_{pi} = ±0.18
 - Elevation Factor, K_e 0.95
- Snow Load**
 - Ground Snow Load 15 psf
 - Exposure Coefficient, C_e 1.0
 - Thermal Factor, C_t 1.0
 - Importance Factor for Snow, I 1.2
 - Roof Slope Factor, C_s 1.0
 - Min. Roof Snow Load Ps = 18 psf
- Seismic Load**
 - 0.2 Sec Spectral Acceleration S_s = 0.345
 - 0.2 Sec Site Coefficient Fa = 1.3
 - 0.2 Sec Design Acceleration S_{ds} = 0.299
 - 1.0 Sec Spectral Acceleration S₁ = 0.154
 - 1.0 Sec Site Coefficient F_v = 1.5
 - 1.0 Sec Design Acceleration S_{d1} = 0.154
 - Risk Category IV
 - Seismic Importance Factor I_p = 1.5
 - Seismic Design Category D
 - Basic Structural System Bearing Wall System / Moment-Resisting Frame System
 - Seismic Force Resisting System Light-Frame S.W., Special Reinf. Masonry S.W., Steel Ordinary Moment Frames
 - Response Modification Factor R = 3.5
 - Deflection Amplification Factor Cd = 3.0
 - Seismic Response Coefficient C_s = 0.128

Non-Structural Component Seismic Exemption:

- Architectural Components:**
Architectural components must comply with seismic requirements of Chapter 13 ASCE 7. (SDC=D)
- Mechanical and Electrical Components:**
Mechanical and electrical components must comply with seismic requirements of Chapter 13 ASCE 7. (SDC=D)

I hereby certify that the structural plans submitted herewith are designed with the structural load carrying elements to resist the anticipated forces of the designated seismic zone in which the structure is located in accordance with Arkansas Code Annotated 12-80-101 et. seq.

Date: April 23, 2024

Casey Daniel

Casey Daniel, P.E. S.E.
Arkansas Registration No. 12371

GENERAL INFORMATION

- All columns shall be centered on grid lines unless noted otherwise.
- All column footings shall be centered on columns unless noted otherwise.
- All wall footings shall be centered on walls unless noted otherwise.
- Unless otherwise noted or detailed, concrete pads for mechanical equipment shall be 4" thick (minimum) and reinforced with #3 @ 12" OC each way centered.
- Substitution of expansion anchors for embedded anchors shall not be permitted, Unless Approved by Engineer.
- Contractor is responsible for coordinating weights, size, and location of actual mechanical units ordered.
- Unless Directed Otherwise By Geotechnical Engineer all fill material under structure shall be sandy clay or clayey sand exhibiting a liquid limit less than 35. Fill material shall be placed in loose lifts not to exceed 8" and compacted to a density of not less than 95% of Modified Proctor Maximum Dry Density (ASTM D-1557) at or slightly wet of optimum moisture content. In place moisture and density of each lift shall be determined by in-situ field tests prior to placing additional fill.
- Permanent stability of the building and components is not provided until the erection is completed as shown on the contract drawings. Erection stability and temporary supports required for construction including guys, braces, and shoring are the responsibility of the contractor.
- Testing:
 - Refer to specifications for specific requirements regarding sampling and testing.
 - Where sampling and testing requirements are omitted from the specifications sample and test concrete as follows:
 - Contractor shall engage a testing laboratory acceptable to the owner and Architect. Test conducted shall be paid for by the contractor.
 - Prepare field samples of 4 compressive test cylinders in accordance with ASTM C31 and one slump test for each class of concrete placed each day. Samples shall be taken not less than once per day for each 50 cubic yards of concrete. Test for cylinders shall be conducted one at 7 days and 2 at 28 days, with remaining cylinders retained for future testing in case of low test results.
- Before construction starts, contractor shall coordinate with owner to identify all underground utility lines and protect them from any damage during construction.

STAIRS & HANDRAILS

- All stairs and handrails / guardrails shall be designed by a professional engineer licensed in the jurisdiction of the project, based on the following design criteria, and calculations shall be signed and sealed:
 - Stair stringers, treads and risers shall be designed to support 100 psf live load.
 - Individual stair treads shall be designed to support a 300 pound concentrated load placed in a position that would cause maximum stress.
- Handrails and the top rail of guardrail systems shall be designed to withstand a uniform load of 50 plf or a 200 pound concentrated load, applied in any direction, and to transfer either load through the supports to the structure.
- Intermediate rails, balusters, and panel fillers shall be designed to withstand a horizontal load of 50 pound applied perpendicularly over an area not to exceed 1 ft square, including openings and spaces between rails. All loads listed are individual loads and do not need to be considered concurrently.
- Submit stair and handrail shop drawings and design calculations for approval before fabrication begins.
- Railings shall comply with "Pipe Railing Systems Manual" by ANSI/NAAMP AMP 521-01 meeting finish standards as described below:
 - Weld of good appearance used in areas of traffic where highly ornamental quality is not required.

SLAB ON GRADE

- Provide a 4-inch clean medium-to-coarse crushed stone (#57 or #67) drainage fill below all interior slabs-on-grade unless noted or detailed otherwise.
- A 15-mil minimum polyethylene film vapor retarder shall be placed below all interior slabs-on-grade.
- Cut 50% of welded wire fabric or deformed rebar 3 inches on either side of a sawcut or construction control joint.
- Provide bolsters or supports as needed to maintain reinforcement at proper location in slab.
- Saw cutting water cement ratio shall not exceed the amount specified.
- Maximum cutting control joints shall proceed as soon as possible without chipping or spalling concrete. Lapsed time between casting and sawcutting shall not exceed 8 hours. The length to width ratios of slab areas shall not exceed 1.25. The Max area of Slab within joints shall be 250 sq. ft.
- Refer to specifications and Architectural drawings for slab finish requirements.

SLAB FLATNESS AND LEVELNESS:

- The slab on grade shall comply with either the straight edge tolerance or the F-number tolerances outlined below for flatness and levelness per ACI 117. The tolerance shall be confirmed by field testing.
- Elevated floors shall comply with the moderately flat design for FF only. The FL levelness tolerance shall not apply to slabs placed on unshored form surfaces or shored form surfaces after removal of shores, nor to cambered or inclined surfaces. FF and FL shall be tested in accordance with ASTM E 1155. Straight edge shall be placed on two high spots anywhere on slab surface and measurements taken. Sampling shall be per ACI 117 and not less than 1 measurement per 100 sq. ft. Measurements must be taken as results supplied to contractor within 72 hrs. of pouring.
- Unless specifically defined otherwise on the drawings, the floor profile category shall apply to the following building types:
 - Conventional: Utility building not to receive finishes.
 - Moderately Flat: Low speed traffic areas, elevated floor slabs
 - Flat: Churches, schools, office buildings, retail, any floor to receive finishes.
 - Very Flat: Industrial floors, floors subject to forklifts, gymnasiums
 - Super Flat: Special use floors including TV studios, warehouse traffic aisles

F-NUMBERS FOR VARIOUS FLOOR PROFILE CATEGORIES				
Floor Profile Category	Specified Overall Value	FF	FL	Minimum Local Value
Conventional	20	15	13	10
Moderately Flat	25	20	15	12
Flat	35	25	21	15
Very Flat	45	35	27	21
Super Flat	60	40	36	24

REQUIRED DEPTH BELOW 10 FOOT STRAIGHT EDGE		
	Maximum Gap	
	90% Compliant	100% Compliant
Conventional	1/2"	3/4"
Moderately Flat	3/8"	5/8"
Flat	1/4"	3/8"
Very Flat	N/A	N/A
Super Flat	N/A	N/A

CAST IN PLACE CONCRETE

- Minimum Concrete Compressive Strengths:
 - Footings f_c = 3,000 psi at 28 days. Max w/c=0.58
 - Interior Slabs-On-Grade f_c = 4,000 psi at 28 days. Max w/c=0.45
 - Ext. Exposed Conc (Air Entrained) f_c = 4,000 psi at 28 days. Max w/c=0.45
- Before concrete is placed reinforcement shall be secured against displacement within tolerances permitted in section 7.5.2 of ACI code.
- Where lap splices are required of deformed bars and not specifically indicated on drawings, splices shall be class B splice.
- When bars of different size are lap spliced, the splice length shall be based upon larger bar.
- Concrete protective cover for reinforcement exposed directly to the ground shall be 3/4" for slabs, joists, and walls and 1 1/2" for beam stirrups and column ties or spirals. Do not "wet stick" dowels.
- The following minimum concrete cover shall be provided:
 - Concrete cast against and permanently exposed to earth: 3"
 - Concrete exposed to earth or weather - No. 6 thru No. 18: 2"
 - Concrete exposed to earth or weather - No. 5 and smaller: 1 1/2"
 - Concrete not exposed to earth or weather:
 - slabs, walls, joists No.14 and No. 18: 1 1/2"
 - slabs, walls, joists No.11 and smaller: 3/4"
- Location and sizes of openings, sleeves, etc. required for other trades must be verified by these trades before placing concrete.
- Contractor is responsible for "means and methods" of construction and shall provide adequate shoring to prevent collapse or damage to structural elements during construction.
- Fine and coarse aggregates shall be evaluated and tested by the contractor for alkali aggregate reactivity in accordance with ASTM C-1260. Test results that have a measured expansion less than 0.10 percent at 16 days meet the requirements of these specifications. For expansions greater than 0.10 percent the aggregate shall be rejected or additional testing per ASTM C-1567 shall be performed by the contractor. For expansions greater than 0.20% aggregate shall be rejected.
- Fly Ash content shall not exceed 25% of the total weight of cement plus fly ash.
- Refer to bar splice schedule for exact splice length.

LAP SPLICE SCHEDULE (UNLESS NOTED OR DETAILED OTHERWISE)

BAR SIZE	F _c =8000		F _c =6000		F _c =5000		F _c =4000		F _c =3000	
	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS	TOP BARS	OTHER BARS
#11	80"	62"	93"	71"	101"	78"	113"	87"	131"	101"
#10	72"	56"	83"	64"	91"	70"	102"	79"	118"	91"
#9	64"	49"	74"	57"	81"	63"	91"	70"	105"	81"
#8	57"	44"	66"	51"	72"	55"	80"	62"	93"	72"
#7	50"	38"	58"	44"	63"	49"	70"	54"	81"	63"
#6	34"	26"	40"	31"	43"	33"	48"	37"	56"	43"
#5	29"	22"	33"	25"	36"	28"	40"	31"	47"	36"
#4	23"	18"	26"	20"	29"	22"	32"	25"	37"	29"

*TOP BAR LAP SPLICES ONLY OCCUR IN CONCRETE BEAMS

EXPANSION JOINT FILLER

- Non-extruding premolded material composed of fiberboard impregnated with asphalt conforming to the requirements of ASTM D1751.

EXPANSION ANCHORS

- Unless noted otherwise on drawings provide expansion anchors that comply with the following:
 - Exposure**:
 - Interior non-wet environments: standard zinc plated carbon steel.
 - Exterior or interior wet environments: hot dipped galv. or stainless steel.
 - Embedment Depth**:
 - Composite deck bottom side installation in ribs 1/2" Ø : 4 1/2" slab - 3 1/2" Embedment
 - 1/2"Ø anchors must be installed in rib with max offset from centerline of rib of 1". 5 1/2" slab - 4 1/2" Embedment
 - 6 1/2" slab - 4 1/2" Embedment
 - Composite deck top side installation 1/2"Ø : 4 1/2" slab - 2 1/4" Embedment
 - 5 1/2" slab - 2 1/4" Embedment
 - 6 1/2" slab - 2 1/4" Embedment
 - Non - Composite slab 1/4" - 1/2"Ø : 2" Embedment
 - Concrete elements other than slabs:
 - 1/4"Ø - 3" Embedment
 - 3/8"Ø - 3 1/2" Embedment
 - 1/2"Ø - 4 1/2" Embedment
 - 5/8"Ø - 4 1/2" Embedment
 - Masonry construction anchors must be in concrete filled cells:
 - 1/2"Ø - 4 1/2" Embedment
 - 3/4"Ø - 4 1/2" Embedment

Where drilling operations encounter rebar, use rebar cutting bit to cut through rebar and advance hole.

EPOXY ANCHORS

- Where epoxy anchorage of threaded rods and rebar is approved by Engineer of Record in concrete filled cells of cmu use DeWalt AC100+ Gold or Hilti HIT HY-270.
- Where epoxy anchorage of threaded rods and rebar is approved by Engineer of Record in concrete use DeWalt Pure 110+ or Hilti HIT RE-500.
- Where anchorage is required into hollow or multi-wythe masonry contractor shall use Powers AC100+ Gold or Hilti HIT HY-270 w/ mesh screen.
- Unless depth of embedment is shown on contract drawings contact Engineer of record for depth of embedment. As a minimum depth of embedment shall be indicated by manufacturer to develop full tensile strength of anchorage.
- Install anchors per the manufacturer's installation instructions.
- Contractor shall arrange for an anchor manufacturer's representative to provide onsite installation training for all of their anchoring products specified. The structural Engineer of record must receive documented confirmation that all of the contractor's personnel who install anchors are trained prior to the commencement of anchor installation.

STRUCTURAL STEEL

- Steel shape and plate materials:
 - W Shapes - ASTM A992 or A572 Grade 50
 - Pipe - A53 - Grade B 35 ksi
 - Round HSS - A500 Grade C 48 ksi
 - Rectangular HSS - A500 Grade C 50 ksi
 - Built-Up shapes - A572 Grade 50
 - Plate - A36 or A572 Grade 50
 - All Others - A36 or A572 Grade 50
- The fabrication and erection of structural steel shall comply with "The Code Standard Practice for Steel Buildings and Bridges" as published by AISC.
- Unless detailed otherwise, connections shall comply with the typical connection details indicated on drawings. Where beam end reactions are shown and connection details are not indicated on the structural drawings, provide a design for the connection and submit to the structural engineer of record for approval. Where typical connection details and beam end reactions are omitted, beam connections shall be selected to support one half the total uniform load capacity indicated in "Allowable Uniform Load Tables" in part 2 of the AISC manual of steel construction, 13th edition.
- Bolted Connections:
 - Unless detailed otherwise, all field connections shall be made using 3/4" diameter ASTM F3125 or A325N or F1852 high strength bolts. Washers shall be installed under nuts on pre-tensioned connections. Pre-tensioned connections shall utilize Alternate Design Bolts (twist off type F1852) or Direct Tension Indicators w/ or A325. Note that these are not considered Slip Critical connections and any Slip Critical Connections will be noted as (SC) on drawings if required.
 - Use slip critical connections for the following:
 - Joints subject to fatigue load with reversal of the loading direction.
 - Joints utilizing oversize holes (not including base plates).
 - Joints utilizing slotted holes with load parallel to slots.
 - Joints subject to seismic provisions of AISC 341 (SDC = C with R>3 or SDC = D, E, or F) without bolt shear capacity reduction.
 - Where specifically identified on the drawings as slip critical all high strength bolts shall be tightened to comply with "slip critical" joints. All faying surfaces shall comply with a class A slip coefficient. Faying surface steel shall be clean and free from paint or other coating as appropriate for slip critical joints, and all galvanized surfaces shall be hand roughened. Power wire brushing is not acceptable, hand brushing is acceptable per RCSC Section 3.2.2 (3). Bolt specifications are as follows:
 - Installation of Alternate Design Bolts (Twist off Type)
 - Direct tension Indicators
 - A490 and A325 high strength bolts shall not be reused that have been previously tightened.
 - Unless specifically noted as slip critical connections, all bolted connections shall be visually inspected to comply with pre-tensioned conditions.
- Welded Connections:
 - Welding of structural steel shall comply with the latest edition of AWS D1.1 and all welds including field welds shall be made by AWS certified welders using E70XX electrodes and must meet CHARPY V-NOTCH requirements as applicable.
 - All fillet welds to be visually inspected. All full penetration welds must be inspected by ultrasonic testing or by other approved methods.
 - Contractor shall remove back-up bars and run-off tabs projecting into or obstructing installation of building materials.
 - Fabricator shall cope beams or otherwise provide weld access holes to allow proper installation and use of back-up bars at welded connections.
- Steel erector is responsible for providing all necessary temporary bracing during erection.
- All structural steel members exposed to weather after construction shall be galvanized.
- Shop drawings shall be provided for review before any fabrication begins.
- Grout column base plates prior to pouring concrete on first elevated deck and/or prior to adding additional steel above column splices.

STEEL JOIST AND JOIST GIRDERS

- Erect in accordance with AISC, SJI, OSHA and project specifications. Do not erect damaged joists. Obtain corrective procedures from manufacturer. Do not field drill or cut joists.
- Provide bridging and anchor to supports per SJI & OSHA requirements.
- Connection to Supports:
 - Except where constructability does not allow, field bolt steel joist at column or at joist nearest columns. Where joist are bolted to columns provide vertical stabilizer plate for bottom chord.
 - Except where constructability does not allow and have not been pre-assembled into panels, field bolt steel joist to supporting members equal to or longer than 40'-0". Joist seats with slotted holes: keep bolts in place even if welds are later applied or the slotted holes must be welded to supporting steel.
 - Except for instances as noted above or as required by OSHA joist may be field welded per SJI requirements.
- Locate pipe and equipment hangers and other concentrated loads only where loads are shown on joist shop drawings. Attachment method as approved by joist supplier where pipes and equipment are suspended from joist bottom chord.
- Slope bearing seats to provide full contact with supports.
- Provide clip angles, plates, etc., shown shop welded to members. Coordinate with structural steel fabricator.
- Provide design calculations for special joists and joist girders shown.
- No suspended loads shall be hung from joist bridging.
- Provide joist Reinforcement per typical detail at concentrated loads applied between joist panel points.
- No attachment shall be made to joists that produces torsion in the joist.

STEEL ROOF DECK

- Deck type and minimum steel thickness as noted on plans.
- The deck shall be fastened to supporting steel in accordance with the manufacturer's instructions. Minimum deck fastening shall be as follows: Five- 5/8" round puddle welds at ends of panel and at each intermediate support. Side lap seams to be fastened with #12 TEKs at 18" OC. Long panel sides at support angles to be fastened with 5/8" round puddle welds at 6" OC along full length of panel.
- Testing and Inspection: Unless specifically stated otherwise in specifications, contractor shall engage a testing laboratory acceptable to owner and Architect to provide inspections for proper attachment and installation.

WOOD TRUSSES

- GENERAL:
 - Wood trusses shall be designed in accordance with the requirements of chapter 23 of the International Building Code and accepted engineering practices. Members are permitted to be joined by nails, bolts and approved timber connectors, metal connector plates or other approved framing devices. The truss fabricator shall submit detailed shop drawings and calculations for all trusses to Architect for review before fabricating is begun. Calculations and shop drawings shall be stamped and signed by a structural engineer licensed to practice within the state or province where the trusses are being installed.
 - All permanent bracing shall be clearly detailed on the shop drawings. The contractor is responsible for installing permanent bracing before the application of any loads.
 - The contractor is responsible for means and methods of construction and providing any temporary bracing as needed to prevent collapse during construction.
 - Each truss shall be permanently marked with the name and address of the truss fabricator.
- Wood Roof Trusses:
 - Loading - design trusses to comply with the International Building Code but not less than the following:
 - Top chord live load - 20 psf
 - Top chord net wind uplift - See S0.2
 - Top chord dead load - 5 psf
 - Truss self weight - Per truss mfr.
 - Bottom chord dead load - 5 psf
 - The truss fabricator shall include as part of design requirements and shop drawings metal bearing clips or connectors capable of resisting uplift or horizontal forces for all trusses.
 - Truss members and components shall not be cut, notched, drilled, spliced or otherwise altered without written approval from the registered design professional responsible for the design of the trusses.

MANUFACTURED GLUE LAMINATED BEAMS "GLB":

- Glue-Laminated timber shall be designed in accordance with the AITC, Timber Construction Manual, Latest Edition, and the NDS, National Design Specifications for stress-graded lumber.
- Comply with the "Structural Glue-Laminated Timber" ANSI/AITC A190.1 - Latest Edition.
- Lumber:
 - Species - Southern Pine
 - Combination - 24F-V5 (Balanced) U.N.O. for beams
 - Modules of Elasticity - E = 1,800 ksi
 - Moisture Content - 7% - 15%
- Adhesive shall be wet-use (waterproof) complying with ANSI/AITC A190.1.
- Provide sizes and shapes as shown on plans. Final cross sections will be based on manufacturer's standard widths and depths. Manufacturer to provide design stresses to fulfill structural demand in accordance with applicable provisions of AITC 117.
- Provide AITC Industrial Appearance Grade when members are not exposed to view. Provide AITC Architectural Appearance Grade when members are exposed to view.
- Immediately after end-cutting each member to final length, apply a saturation coat of end sealer to ends and all other cross-cut sections.
- Comply with AITC III - "Recommended practice for protection of structural glue-laminated timber during transit, storage and erection."
- Laminated members shall be individually wrapped in a moisture resistant wrap paper for protection. Wrapping shall remain on members until it will serve no useful purpose, including protection from weather, soiling, and damage from work of other trades.

WOOD FRAMING

- Provide 15lb roofing felt or other approved moisture barrier under all wood plates bearing on masonry or concrete.
- All joists and rafters unless noted otherwise on drawings shall be secured to bearing plate with one simpsom H3 tie or approved equal.
- Where connections for wood members are not specifically shown on drawings provide fasteners as indicated in table 2304.9.1 of the International Building Code.
- Where headers are not specifically shown on drawings, provide header sizes as indicated in tables 2308.9.5 and 2308.9.6 of the International Building Code.
- Unless noted otherwise on drawings, wood framing shall comply with the following species & grade:

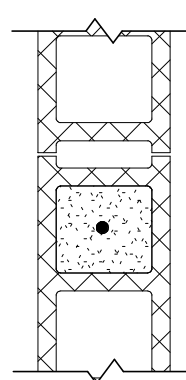
ITEM	SPECIES	GRADE
• Headers	SYP	No. 2
• Floor Joists	SYP	No. 2
• Rafters	SYP	No. 2
• Built-up Beams	SYP	No. 2
• Built-Up Columns	SYP	No. 2
• Load bearing Walls	S-F	Stud
• Columns	SYP	No. 2

- Fasteners in preservative treated wood and fire-treated wood shall be hot dipped galvanized, stainless steel or other approved specifically designed for attachment in corrosive environments.

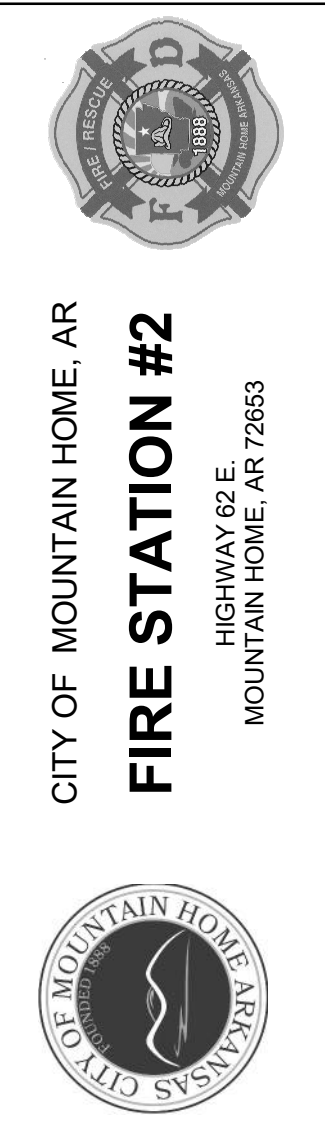
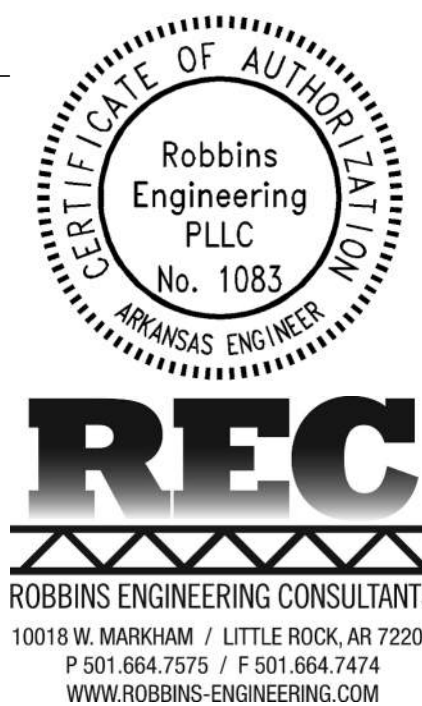
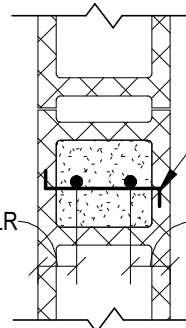
CONCRETE MASONRY

- Material specifications
 - Concrete Masonry Units - f_m = 2,500 psi MIN.
 - Grout - f_c = 3,000 psi MIN.
 - Mortar - Type S (ASTM C476)
 - Reinforcing Bars - Grade 60 (ASTM A615)
 - Reinforcing Wire - ASTM A62
- Load bearing CMU shall be light weight type 1
- Grout shall conform to ASTM C476 and be tested in accordance with ASTM C1019.
- Mortar shall comply with Table 1, Proportion specification requirements of ASTM C270.
- Refer to Architectural elevation drawings for location of wall control joints. If wall control joints are not shown on contract drawings place interior and exterior wall control joints at spacings not to exceed 30 feet on center.
- Vertical CMU cells scheduled for filling with grout shall be kept clean of mortar droppings and debris. The unobstructed opening shall not be less than 2" x 3" on plan dimension.
- Provide vertical reinforcing, same size as adjacent bar, at: Corners, ends, jambs, each side of control and expansion joints.
- Continue vertical reinforcing floor to floor (or roof) and extend to top of parapet.
- Provide standard hooks on bars terminating into a masonry face:
 - In walls at openings, heads, jambs, expansion joints, ends:
 - In beams at top, bottom, and ends.
- Coordinate blockouts, reveals, holes, openings and built in items with all contract documents and trades.
- Coordinate with architect the masonry block type required at firewalls.
- Unless otherwise noted on drawings, top of CMU walls shall have masonry bond beam filled w/ grout and reinforced with 2#5. Vertical reinforcing shall extend into bond beam w/ standard hook.
- Corrosion protection for carbon steel accessories used in exterior wall construction or interior walls exposed to a mean relative humidity exceeding 75 percent shall comply with current building code requirements for masonry structures (TMS 402-16 / 602-16). Specifically steel items exposed to wet conditions noted shall be stainless steel, hot dipped galvanized, or epoxy coated. Wall ties, anchors and inserts may be mill galvanized, hot dipped galvanized, or stainless steel.
- Masonry Joint Reinforcement:
 - Type - Ladder, Deformed long sides and plain cross rods
 - Length - 10'-0"
 - Size - W2.8 (9 gage)
- Interior Walls - Mill galvanized ASTM A641 (0.1 oz/sf) Min 1/2" cover
- Exterior Walls - Hot-dipped galvanized ASTM A153 (1.5 oz/sf) min 5/8" cover
- Spacing - at first bed joint above & below floors infill @ 16"oc
- Lap Splice - 8"
- Lap Splice Schedules -

8" CMU WITH REINFORCING CENTERED	
BAR	LAP SPLICE / OR Ld
#3	12"
#4	12"
#5	17"
#6	33"
#7	46"
#8	71" OR BAR COUPLER
#9	81" OR BAR COUPLER



8" CMU WITH 2 - BARS	
BAR	LAP SPLICE / OR Ld
#3	20"
#4	20"
#5	33"



REVISION	
ID.	

REC JOB NO.
230006

ISSUE DATE
04/23/2024

SHEET
CONTENTS
**GENERAL
NOTES**

SHEET
S0.1

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GENERAL NOTES

SPECIAL INSPECTIONS - BASIC REQUIREMENTS

VERIFICATION AND INSPECTION OF PAD AND STRIP FOOTINGS CONSTRUCTION:

- A. After excavation and before pouring footings the geotechnical engineer or representative shall verify thru periodic testing that material below footings are adequate for bearing.
- B. Verify excavations are extended to proper depth thru periodic testing.
- C. If required, provide density testing, use of approved fill materials, and correct lift thickness during placement and controlled fill through continuous inspection.
- D. If required by geotechnical recommendations, prior to placing footings or fill, observe subgrade and proof roll.
- E. Provide verification and inspection of formwork, steel reinforcement, and concrete for applicable items as outlined in subparagraph "Verification and Inspection of Concrete Construction."

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION:

- A. Contractor shall obtain and a testing agency shall review and record material verification of high-strength bolts, nuts and washers, steel, non-shrink grout, and welders certifications.
- B. Inspection agency shall periodically review by visual inspection and report all bearing type connections for compliance with "snug tight" condition. For connections specified as "slip critical" inspection agency shall periodically review bolts per manufacturers recommendations for twist off type bolts or direct tension indicators.
- C. Contractor shall provide structural steel shop drawings for review and maintain copies on site for inspectors use. Refer to specifications for specific shop drawing requirements.
- D. Inspection of welded structural steel shall be as follows:
1. Complete and partial penetration groove welds shall have continuous inspection and welds shall be tested using the ultrasonic testing method or other previously approved method at a frequency noted as follows:
 - A. 10 welds or less = 100% Tested
 - B. 10 to 20 welds = 50% Tested, but not less than 10
 - C. 20 to 30 welds = 25% Tested, but not less than 10
 - D. 30 or more = 10% Tested, but not less than 10
 2. Fillet welds greater than 5/16" or require multiple passes shall have continuous visual inspection.
 3. Single pass fillet welds 5/16" and smaller shall have periodic visual inspection.
 4. Roof and floor deck welds shall have periodic inspection verifying size, spacing, and quality.
 5. Floor shear studs shall have periodic inspection and testing as per AWS D1.1.
- E. Steel deck - Contractor shall provide shop drawings and manufacturers certificates for review and maintain copies on site for inspector's use. Refer to specifications for specific shop drawing requirements. Inspector shall periodically inspect deck type, placement, and attachment. Where mechanical fasteners are used contractor shall submit and maintain on-site manufacturers data for fasteners.
- F. Joists and joist girders - Contractor shall provide shop drawings for review and maintain on site shop drawings and manufacturers tags or certificates for inspectors use. Periodic inspection of joists shall include review of structural high strength bolts (if applicable), welding, location, and spacing of joists. Contractor is responsible for compliance with applicable OSHA requirements.

VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION:

- A. As a minimum, contractor shall provide and maintain copies on site the following submittals:
1. Manufacturers data for each unit, accessory, and product with application and installation instructions and material certificates.
 2. Reinforcement shop drawings complying with ACI Detailing Manual include all information necessary for shop fabrication and for placing in the field.
 3. When required in contract documents, maintain material samples and mock-up panels.
 4. Contractor has total control and responsibility for temporary shoring and bracing as part of means and methods of construction.
- B. The inspection program shall provide for the following inspections:
1. Periodic inspection of size and location of masonry units.
 2. Periodic inspection of reinforcement size, grade, and location.
 3. Periodically verify grout spaces are clean and mortar joints are properly constructed.
 4. Continuous inspection of grout placement and any welding of reinforcing

SHOP DRAWING SUBMITTAL PROCEDURES:

1. Transmit submittals in advance of related construction activities to avoid unnecessary delays. The structural engineer for this project may withhold action on a submittal requiring coordination with other submittals until all related submittals are received.
2. Submit one electronic portable document format (.pdf) copy through the architect for the "Shop Drawing" review. The electronic copy will be marked up by the structural engineer of record. One electronic copy will be kept by the engineer and an additional copy will be transmitted to the architect. The architect will transmit a copy to the contractor. The contractor will make additional hard copies as required for his/her needs.
3. Action Stamp: The engineer of record will stamp each submittal with a uniform action stamp to indicate the action taken in one of five options:
 - **Permitted:** Work covered by the submittal generally complies with the requirements of the contract documents.
 - **Permitted and Corrections Noted:** Work covered by the submittal may proceed provided it complies with the notations or corrections on the submittal and requirements of the contract documents.
 - **Submit Specified Item:** Comply with the content of the specifications for the indicated item(s)
 - **Revise and Resubmit:** Work covered by the submittal does not comply with the requirements of the contract documents and must be changed to comply and resubmit the entire submittal, or portions specified otherwise.
 - **Rejected:** Work covered by the submittal is unacceptable and may not proceed.
4. Contractor shall comply with Division One Section - "Submittals"
5. No reproductions of construction documents are acceptable for use as shop drawings.

SPECIAL INSPECTIONS - NOTES

Provide special inspections for the following items per section 1704 of the IBC and section 014000 of the project specifications. The approved independent testing agency's individual special inspector shall demonstrate competence for inspection of particular type of construction or operation requiring special inspection and shall meet the minimum special inspector qualifications in section 1704 of the IBC. The special inspector shall bring non-conforming items to the immediate attention of the contractor in writing and note all such items in the reports. Any unresolved item about to be covered by the work shall be brought to the contractor's and the owner's construction manager's attention immediately. The special inspector shall furnish reports, tests and inspections directly to the architect of record, the owner's construction manager, and the contractor. The special inspector shall submit a final signed report stating that the work requiring special inspection was, to the best of the inspectors knowledge, in conformance with the approved plans and specifications. The contractor is responsible for notifying the special inspection agency regarding individual inspection for items listed on the schedule and as noted on the building department approved plans. Adequate notice and access to approved plans shall be provided so that the special inspector has time to become familiar with the project.

STRUCTURAL ALLOWANCES

STRUCTURAL REVISIONS:

1. The contractor shall allow for \$5,000 for any revisions requested by the structural engineer during construction or review of shop drawings. Provide additional misc. steel angles, channels, wide flange shapes, HSS shapes, plates, rods, shear studs, rebar, concrete, bar joists, anchors, bolts, decking, grating, etc. as directed by the EOR for use in the field.
2. Allowance to include total cost of work including material costs, labor, installation, taxes, insurance, overhead & profit, and delivery.
3. Claims for extra costs associated with additional structural items will not be entertained until the entire allowance is first used. At the project closeout, credit all unused amounts of the structural allowance to the Owner by Change Order Credit.

IBC SPECIAL INSPECTIONS		INSPECTION FREQUENCY *	
CONST. TYPE	INSPECTION TASK	CONTINUOUS	PERIODIC
SOILS	1. Verify materials below footings are adequate to achieve the design bearing capacity.	—	×
	2. Verify excavations are extended to proper depth and have reached proper material.	—	×
	3. Perform classification and testing of controlled fill materials.	—	×
	4. Verify use of proper materials, densities and lift thickness during placement and compaction of controlled fill.	×	—
	5. Prior to placement of controlled fill, observe subgrade and verify that site has been prepared properly.	—	×
CONCRETE	1. Inspection of reinforcing steel and placement.	—	×
	2. Inspection of reinforcing steel welding in accordance with table 1704.3, item 5B.	—	×
	3. Inspect bolts and embeds to be installed in concrete prior to and during placement of concrete.	×	—
	4. Verifying use of required design mix.	—	×
	5. Sampling fresh concrete and performing slump, air content and determining the temperature of fresh concrete at the time of making specimens for strength tests.	×	—
	6. Inspection of concrete and shotcrete placement for proper application techniques	×	—
	7. Inspection for maintenance of specified curing temperature and techniques	—	×
	8. Inspect formwork for shape, location and dimensions of the concrete member being formed.	—	×
	9. Inspection of anchors installed in hardened concrete.	—	×
STRUCTURAL STEEL	1. Material verification of high-strength bolts, nuts and washers. A. Identification of markings to conform to ASTM standards specified in the approved construction documents. B. Manufacturer's certificate of compliance is required.	—	×
	2. Inspection of high strength bolting. A. Bearing type connections, snug tight & slip critical.	—	×
	3. Material verification of structural steel. A. Identification markings to conform to ASTM standards specified in the approved construction documents.	—	×
	4. Material verification of weld filler material. A. Identification markings to conform to ASTM standards specified in the approved construction documents. B. Manufacturer's certificate of compliance required.	—	×
	4. Inspection of welding. A. Structural steel: <ul style="list-style-type: none">1. Complete & partial penetration groove welds.2. Multi-pass fillet welds.3. Single-pass fillet welds > 5/16".4. Single-pass fillet welds < 5/16".5. Single-pass fillet welds < 5/16". B. Reinforcing steel: <ul style="list-style-type: none">1. Verification of weldability of reinforcing steel other than ASTM A7062. Shear Reinforcement.3. Other Reinforcing steel.	×	—
	6. Inspection of steel frame joint details in compliance with approved construction documents: A. Details such as braces and stiffeners. B. Member Locations. C. Application of joint details at each connection.	—	×

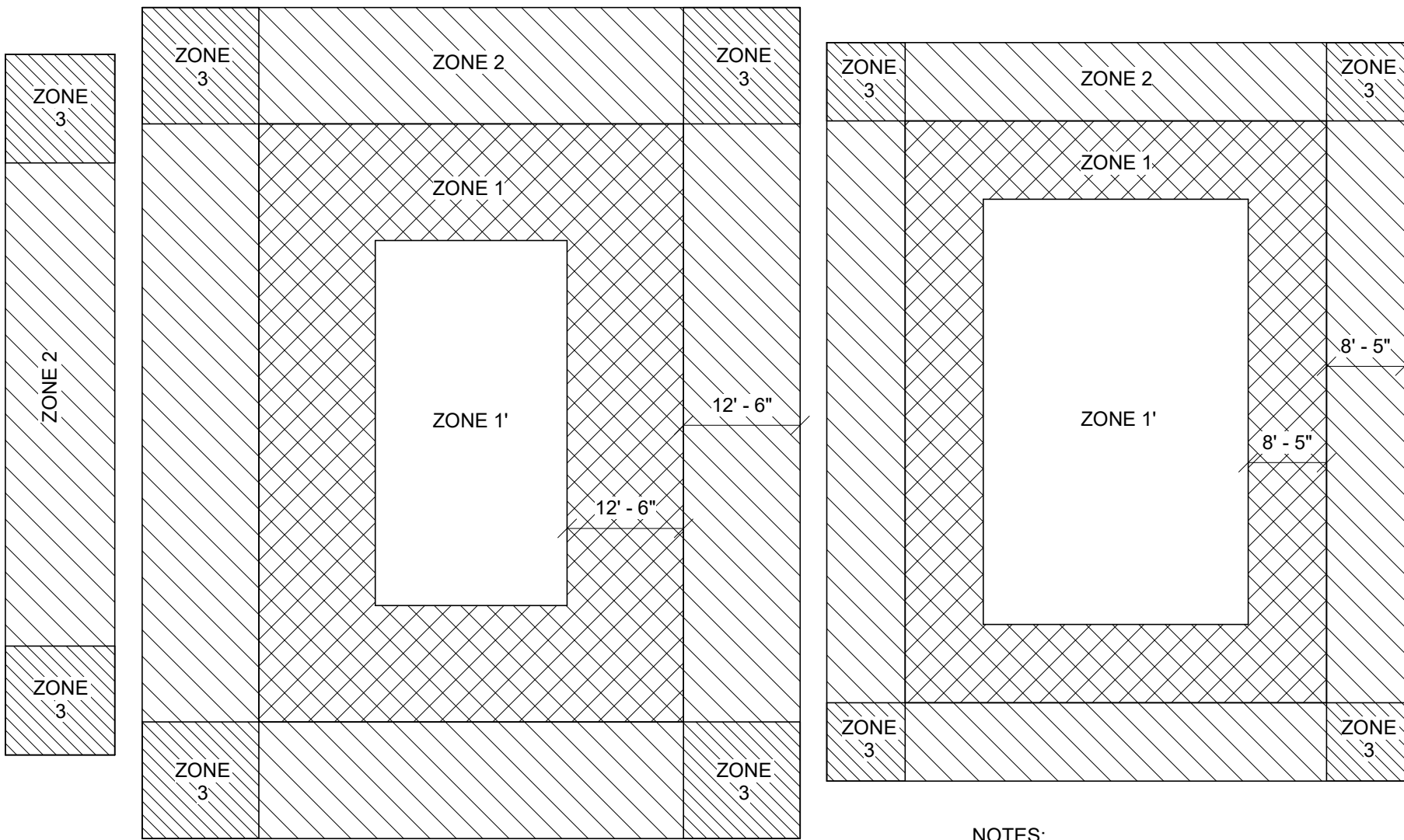
Special inspection, continuous: The full time observation of work requires special inspection by an approved special inspector who is present in the area where the work is being performed.

Special inspection, periodic: The part time or intermittent observation of work requires special inspection by an approved special inspector who is present in the area where the work has been or is being performed and the completion of the work.

IBC SPECIAL INSPECTIONS		INSPECTION FREQUENCY *	
CONST. TYPE	INSPECTION TASK	CONTINUOUS	PERIODIC
MASONRY	1. As masonry construction begins, the following shall be verified to ensure compliance: A. Proportions of site prepared mortar. A. Construction of mortar joints. C. Location of reinforcement and connectors.	—	×
	2. During construction the inspection program shall verify: A. Size and location of structural elements. B. Type, size and location of anchors including other details of anchorage of masonry to structural members, frames or other construction. C. Specified size, grade and type of reinforcement. D. Welding of reinforcing bars. E. Protection of masonry during cold (Temperature below 40° F) or hot weather (Temperature above 90°).	—	×
	3. Prior to grouting, the following shall be verified to ensure compliance: A. Grout space is clean. B. Placement of reinforcement and connectors. C. Proportions of site-prepared grout. D. Construction of mortar joints.	—	×
	4. Grout placement shall be verified to ensure compliance with code and construction document provisions	×	—
	5. Preparation of any grout specimens, mortar specimens and/or prisms shall be observed.	×	—
	6. Compliance with required inspection provisions of the construction documents and the approved submittals shall be verified.	—	×
METAL DECK	1. Deck attachment per general and plan notes on construction documents.	—	×
BASE PLATE GROUT	1. Install per standard details.	—	×
COMPONENT ANCHORAGE	1. Installation of shallow expansion, chemical and cast in place anchors in masonry and concrete.	—	×
Special inspection, continuous: The full time observation of work requires special inspection by an approved special inspector who is present in the area where the work is being performed.			
Special inspection, periodic: The part time or intermittent observation of work requires special inspection by an approved special inspector who is present in the area where the work has been or is being performed and the completion of the work.			

HIGH ROOFS

Component & Cladding Wind Pressures per ASCE 7-16 (117 MPH)						
	A ≤ 10 ft²	A ≤ 33 ft²	A ≤ 50 ft²	A ≤ 75 ft²	A ≥ 100 ft²	
Wall Zone 4	+29, -31	+27, -29	+26, -28	+25, -28	+25, -27	
Wall Zone 5	+29, -38	+27, -34	+26, -32	+25, -31	+25, -30	
Roof Zone 1*	+13, -29	+12, -29	+11, -29	+11, -29	+10, -29	
Roof Zone 1	+13, -50	+12, -44	+11, -42	+11, -40	+10, -39	
Roof Zone 2	+13, -66	+12, -58	+11, -56	+11, -53	+10, -52	
Roof Zone 3	+13, -89	+12, -75	+11, -70	+11, -65	+10, -61	
Zone 3: 0.6h x 0.2h = 12.6' x 4.2' Wall Dim "a" = 7'-9"						



- NOTES:
- ROOFS SHOWN SEPARATED FOR CLARITY.
 - LISTED WIND PRESSURES ARE LRFD / STRENGTH DESIGN.
 - DEAD LOADS HAVE NOT BE SUBTRACTED. A DEAD LOAD OF 10 PSF MAY BE USED IN LOAD COMBINATIONS.
 - "A" INDICATES COMPONENT TRIBUTARY AREA.

1 WIND UPLIFT DIAGRAM

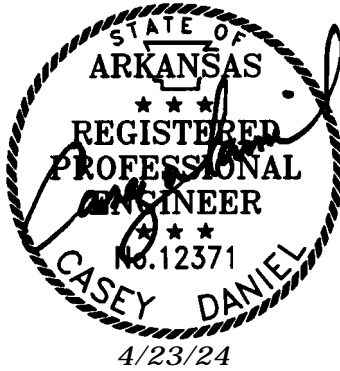
NOT TO SCALE

STRUCTURAL ABBREVIATIONS

ADD	ADDENDUM	LW	LONG WAY
ADDL	ADDITIONAL	LP	LOW POINT
ALT	ALTERNATE	MFR	MANUFACTURER
AB	ANCHOR BOLT	MK	MARK
&	AND	MSRY	MASONRY
ANG	ANGLE	MBA	MECHANICAL BAR ANCHOR
ARCH	ARCHITECT	MBM	METAL BUILDING MANUFACTURER
@	AT	MBS	MECHANICAL BAR SPLICE
BP	BASE PLATE	MO	MASONRY OPENINGS
BM	BEAM	MTL	MATERIAL
BRG	BEARING	MIN	MINIMUM
BOT	BOTTOM	MISC	MISCELLANEOUS
B/	BOTTOM / BACK OF	NF	NEAR FACE
BLDG	BUILDING	NS	NEAR SIDE
CIP	CAST IN PLACE	NML WT	NORMAL WEIGHT
CLG	CEILING	NIC	NOT IN CONTRACT
C OR CL	CENTER OR CENTERLINE	NTS	NOT TO SCALE
C/C	CENTER TO CENTER	OC	ON CENTER
CLR	CLEAR	OPNG	OPENING
COL	COLUMN	OPP	OPPOSITE
CP	COMPLETE PENETRATION	OPP H	OPPOSITE HAND
CONC	CONCRETE	OF	OUTSIDE FACE
CMU	CONCRETE MASONRY UNIT	PP	PLATE
CONN	CONNECTION	PP	PARTIAL PENETRATION
CONST	CONSTRUCTION	RAD	RADIUS
CJ	CONTROL JOINT	RECT	RECTANGULAR
CONT	CONTINUOUS	REF	REFERENCE
CONTR	CONTRACTOR	RE	REFER TO
DBA	DEFORMED BAR ANCHOR	REIN	REINFORCING
DBE	DECK BEARING ELEVATION	REQD	REQUIRED
DL	DEAD LOAD	REV	REVISION
DET	DETAIL	SCHED	SCHEDULE
DIAG	DIAGONAL	SECT	SECTION
DIA OR Ø	DIAMETER	SW	SHORT WAY
DIM	DIMENSION	SIM	SIMILAR
DWLS	DOWELS	SL	SLAB
DN	DOWN	SOG	SLAB ON GRADE
DWG	DRAWINGS	SPA	SPEC. SPACING OR SPACES
EA	EACH	SPECS	SPECIFICATIONS
EE	EACH END	SQ	SQUARE
EF	EACH FACE	STD	STANDARD
ES	EACH SIDE	STL	STEEL
EW	EACH WAY	SDI	STEEL DECK INSTITUTE
EL	ELEVATION	SJ	STEEL JOIST INSTITUTE
EQ	EQUAL	STRUC	STRUCTURE OR STRUCTURAL
EJ	EXPANSION JOINT	SYMM	SYMMETRICAL
EXT	EXTERIOR	SYP	SOUTHERN YELLOW PINE
FF	FAR FACE	THK	THICKNESS
FIN	FINISH	T	TOP
FS	FAR SIDE	T/C	TOP OF CONCRETE
FLR	FLOOR	T/F	TOP OF FOOTING
FTG	FOOTING	T/J	TOP OF JOIST
FDN	FOUNDATION	T/L	TOP OF LEDGE
GALV	GALVANIZED	TIP	TOP OF PILASTER
GA	GAUGE OR GAGE	T/SL	TOP OF SLAB
GLB	GLULAM BEAM	T/SOG	TOP OF SLAB ON GRADE
HT	HEIGHT	T/S	TOP OF STRUCTURAL STEEL
HP	HIGH POINT	TYP	TYPICAL
HORIZ	HORIZONTAL	UNO	UNLESS NOTED OTHERWISE
I	INSIDE FACE	VERT	VERTICAL
INT	INTERIOR	WB	WIND BRACE
JBE	JOIST BEARING ELEVATION	WWF	WELDED WIRE FABRIC
JO	JOINT	WF	WIDE FLANGE
JST	JOIST	WITH	WITH
K OR k	KIP = 1,000lbs	W/O	WITHOUT
LB	POUND	WP	WORK POINT
LT WT	LIGHT WEIGHT	WS	WATER STOP
LL	LIVE LOAD	WT	WEIGHT
LONG	LONGITUDINAL		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		

LOW ROOF

Component & Cladding Wind Pressures per ASCE 7-16 (117 MPH)						
	A ≤ 10 ft²	A ≤ 33 ft²	A ≤ 50 ft²	A ≤ 75 ft²	A ≥ 100 ft²	
Wall Zone 4	+27, -29	+25, -27	+24, -26	+23, -26	+23, -25	
Wall Zone 5	+27, -36	+25, -32	+24, -30	+23, -29	+23, -28	
Roof Zone 1*	+12, -27	+11, -27	+11, -27	+10, -27	+10, -27	
Roof Zone 1	+12, -46	+11, -41	+11, -39	+10, -38	+10, -36	
Roof Zone 2	+12, -61	+11, -54	+11, -52	+10, -50	+10, -48	
Roof Zone 3	+12, -83	+11, -70	+11, -65	+10, -60	+10, -57	
Zone 3: 0.6h x 0.2h = 8.4' x 2.8' Wall Dim "a" = 5'-8"						



2007 N. GREEN ACRES ROAD
FAYETTEVILLE, AR 72703
PH: 479-443-7121
EMAIL: INFO@MBL-ARCH.COM
WWW.MBL-ARCH.COM



CITY OF MOUNTAIN HOME, AR
FIRE STATION #2
HIGHWAY 62 E
MOUNTAIN HOME, AR 72653



REVISION	DATE	BY	CHKD

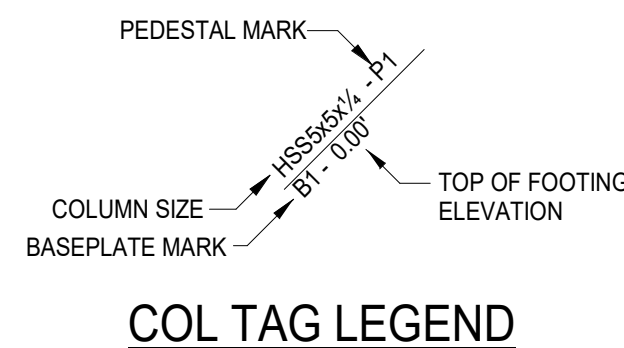
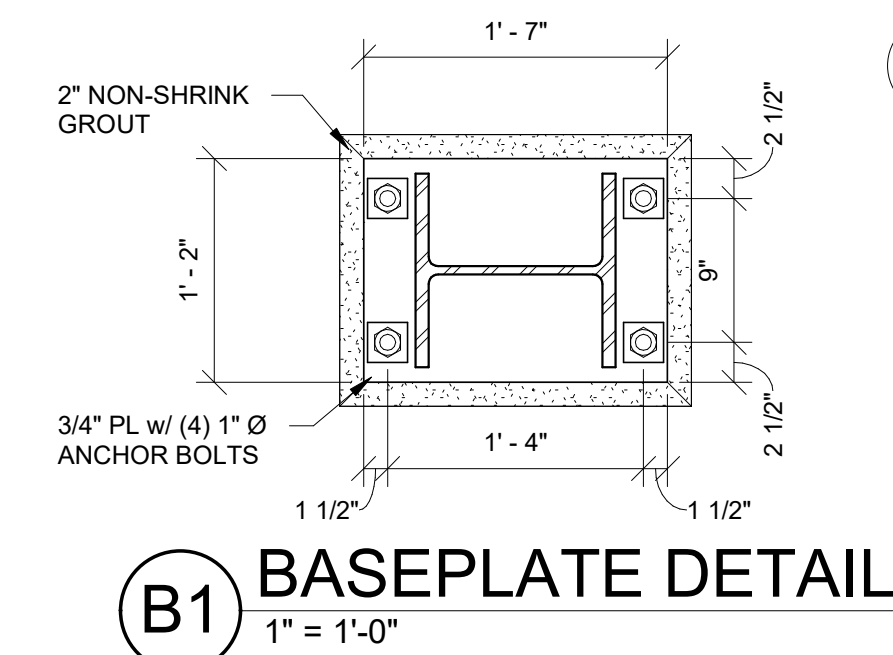
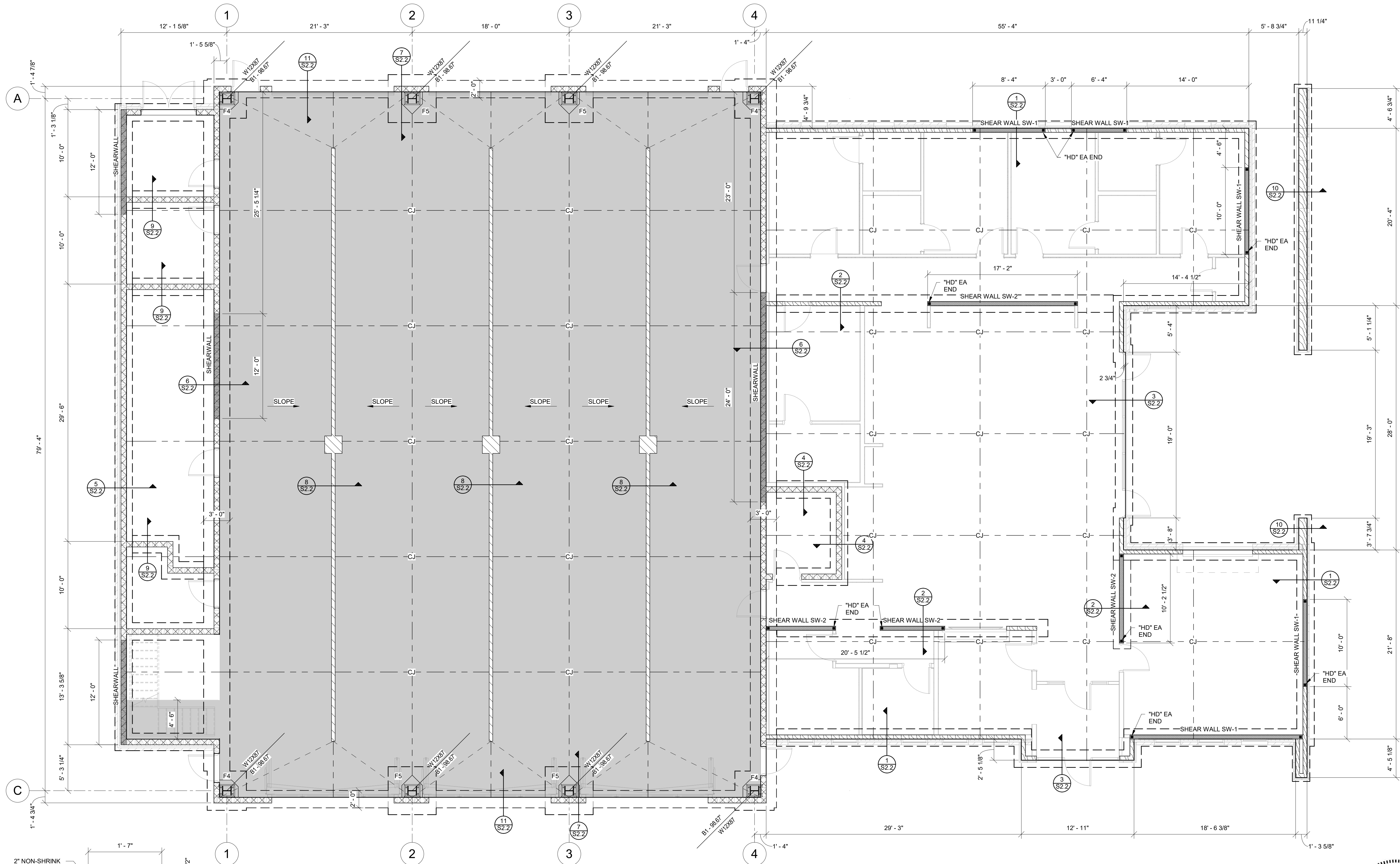
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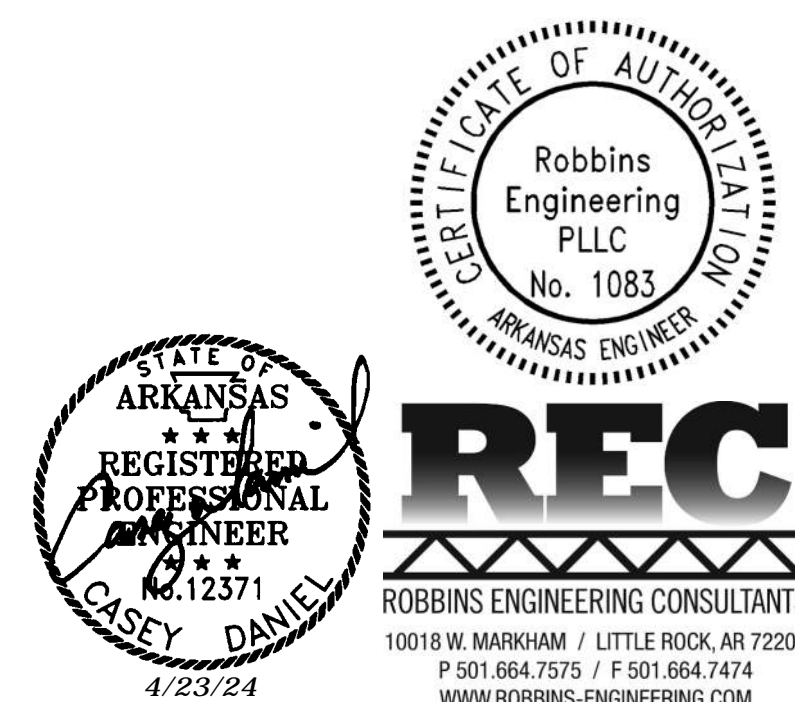
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1 FOUNDATION PLAN
3/16" = 1'-0"

- NOTES:
1. FIN FLR EL - 100.00'
 2. TYPE 1 FLOOR CONSTRUCTION: 4" NORMAL WT CONCRETE ON 15 MIL VAPOR RETARDER ON 4" GRANULAR FILL ON EITHER SELECT COMPACTED STRUCTURAL FILL OR UNDISTURBED SOIL. REINF. W/ 6x6-W2.9xW2.9 WWF, PLACE WWF SHEETS ON CHAIRS. CUT 50% OF REINF AT CONTROL JOINTS.
 3. TYPE 2 FLOOR CONSTRUCTION (SHADED AREA): 8" NORMAL WT CONCRETE ON 15 MIL VAPOR RETARDER ON 6" GRANULAR FILL ON EITHER SELECT COMPACTED STRUCTURAL FILL OR UNDISTURBED SOIL. REINF. W/ 6x6-D10xD10 WWF OR #4 BARS @ 12" OC, PLACE WWF SHEETS OR REBAR ON CHAIRS. CUT 50% OF REINF AT CONTROL JOINTS.
 4. CJ - INDICATES CONSTRUCTION JOINTS. SEE SHEET S2.1 FOR DETAILS. CONTROL JOINTS MAY BE EITHER CONSTRUCTION JOINT OR SAW CUT JOINT AT CONTRACTORS OPTION.
 5. SEE 1/54.2 FOR MASONRY WALL CONTROL JOINTS.
 6. SEE SHEET S2.1 FOR FOOTING, PEDESTAL AND ANCHOR BOLT SCHEDULES.
 7. HD - INDICATES SHEAR WALL HOLD DOWN. SEE S/52.1
 8. VERIFY ALL DIMENSIONS W/ ARCH. DRAWINGS. REFER TO ARCH. DRAWINGS FOR DIMENSIONS NOT PROVIDED.
 9. INDICATES TO WOOD SHEAR WALL.



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**FOUNDATION
PLAN**

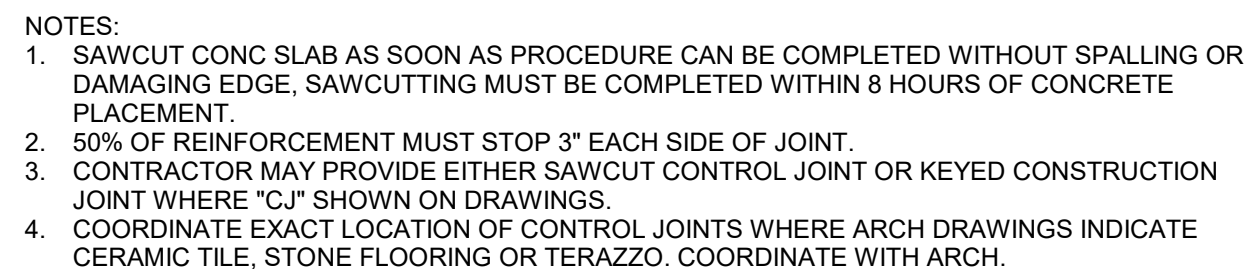
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S1.1

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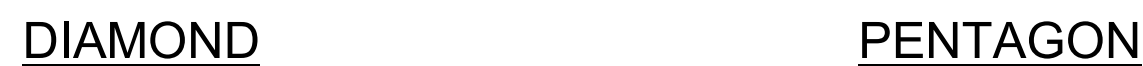


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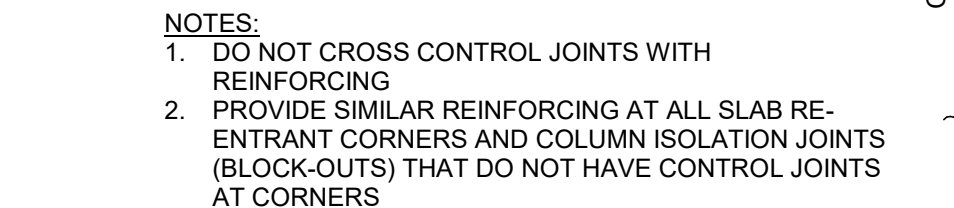




1 TYP. SOG CONTROL JOINT DETAIL
NOT TO SCALE



2 DETAIL - COLUMN ISOLATION JOINTS



3 REINFORCING @ JOINTS

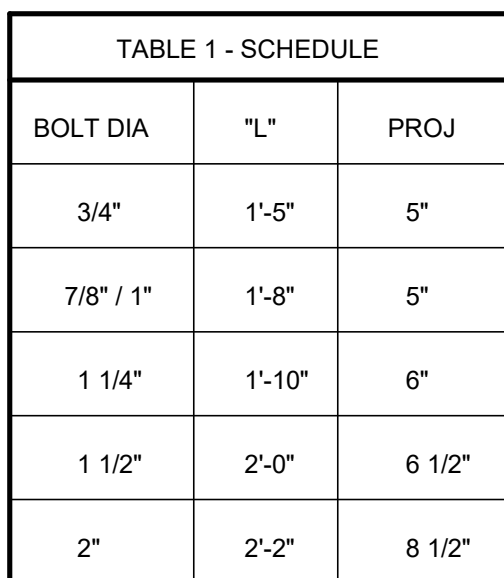


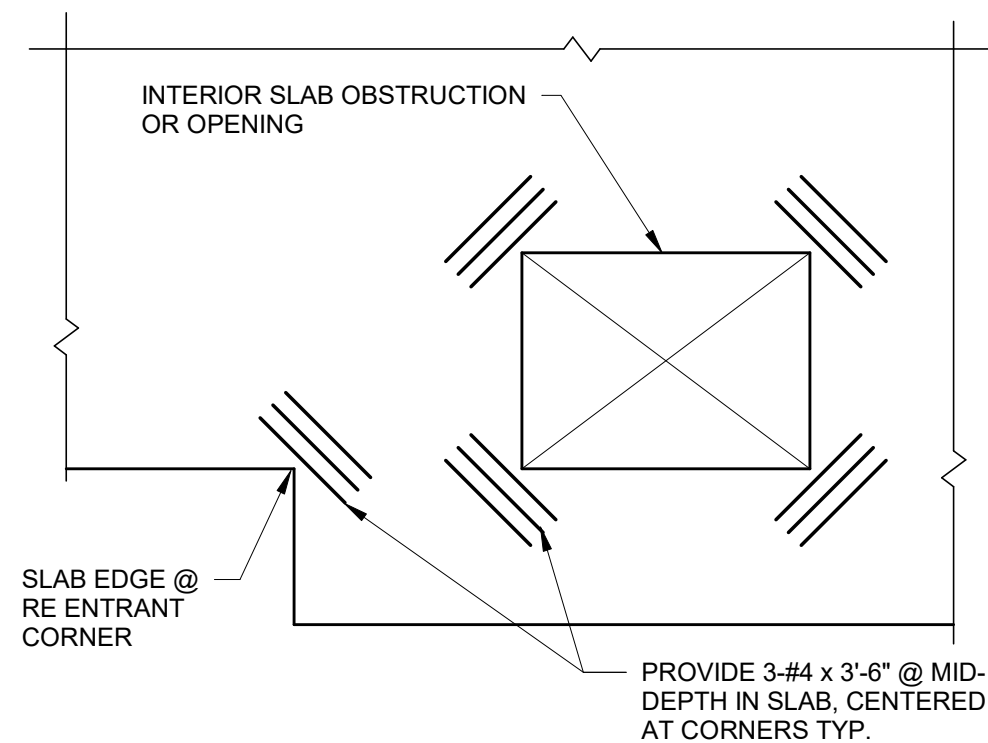
TABLE 2 - HOLE SIZE IN BASE PL & WASHER REQUIREMENTS			
BOLT DIA	MAX HOLE DIAMETER BASE PL.	MIN WASHER SIZE	MIN WASHER THICKNESS
3/4"	1 5/16"	2"	1/4"
7/8"	1 9/16"	2 1/2"	5/16"
1"	1 13/16"	3"	3/8"
1 1/4"	2 1/16"	3"	1/2"
1 1/2"	2 5/16"	3 1/2"	1/2"
2"	3 1/4"	5"	3/4"

- NOTES:
1. OMIT NON SHRINK GROUT ON PRE-ENGINEERED METAL BUILDINGS AND WHERE NOTED ON DRAWINGS.
 2. AT CONTRACTOR'S OPTION LEVELING NUT UNDER BASE PLATE MAY BE OMITTED WHERE STEEL SHIM PACKS ARE USED.
 3. USE ASTM F1554 GRADE 55 THREADED ROD W/ NUT AT BOTTOM.
 4. WHERE OVERSIZED OR SLOTTED HOLES ARE USED PROVIDE PLATE WASHERS AS INDICATED IN TABLE 2. W/ CIRCULAR OR SQUARE WASHERS MEETING MIN. SIZE REQUIREMENTS. FIELD WELD SQUARE WASHERS IN PLACE W/ 3/16" FILLET WELD. IF OVERSIZED OR SLOTTED HOLES ARE NOT USED OMIT PLATE WASHERS.

5 TYP. ANCHOR BOLT DETAIL
NOT TO SCALE

<u>PAD FOOTING SCHEDULE</u>		
MARK	FOOTING SIZE	REINFORCEMENT
F4	4'-6"x4'-6"x1'-3"	#5 @ 12" OC EW BOT
F5	5'-6"x5'-6"x1'-3"	#6 @ 12" OC EW BOT

6 PAD FOOTING SCHEDULE

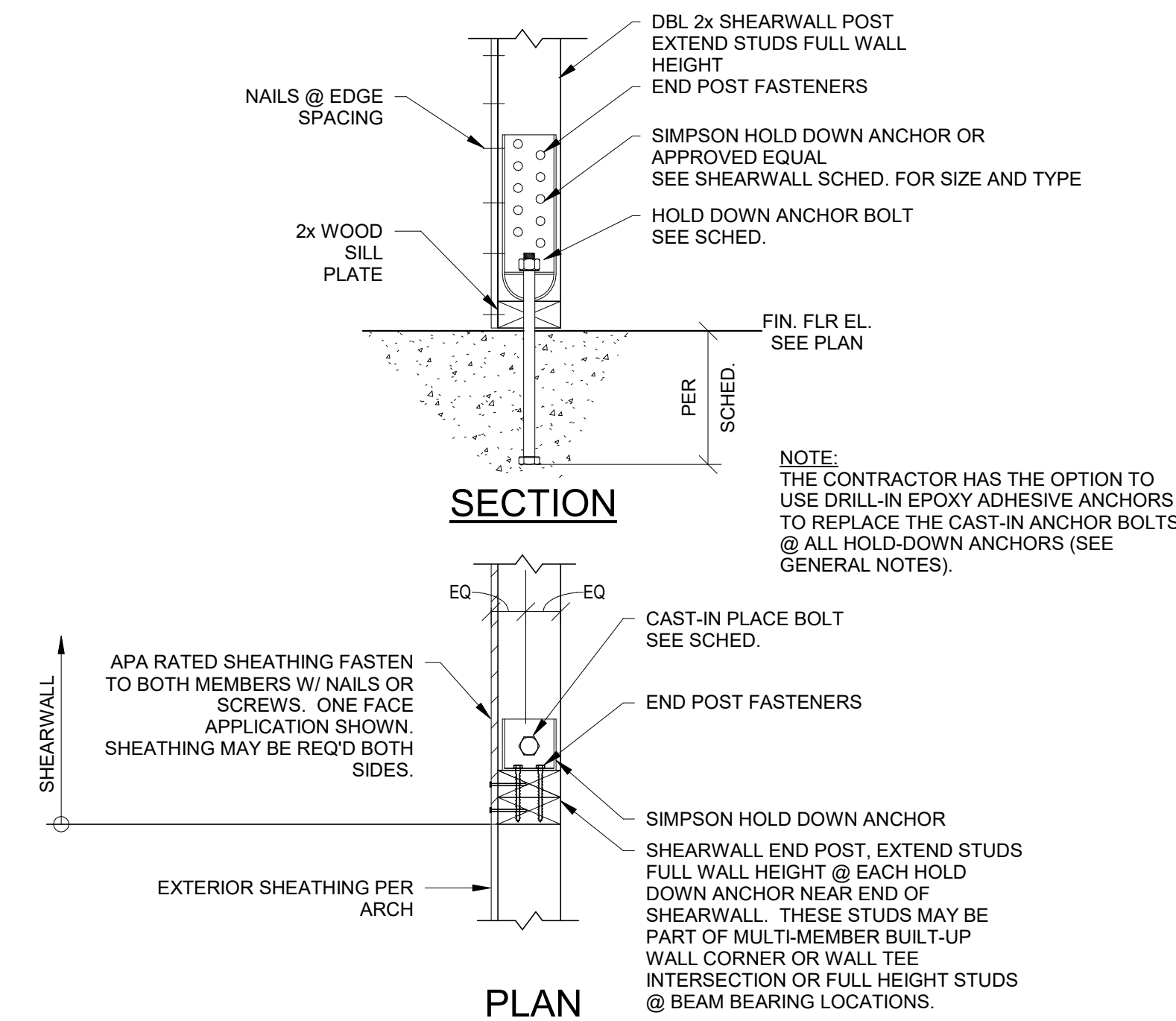


7 REINF @ RE-ENTRANT CORNERS
NOT TO SCALE

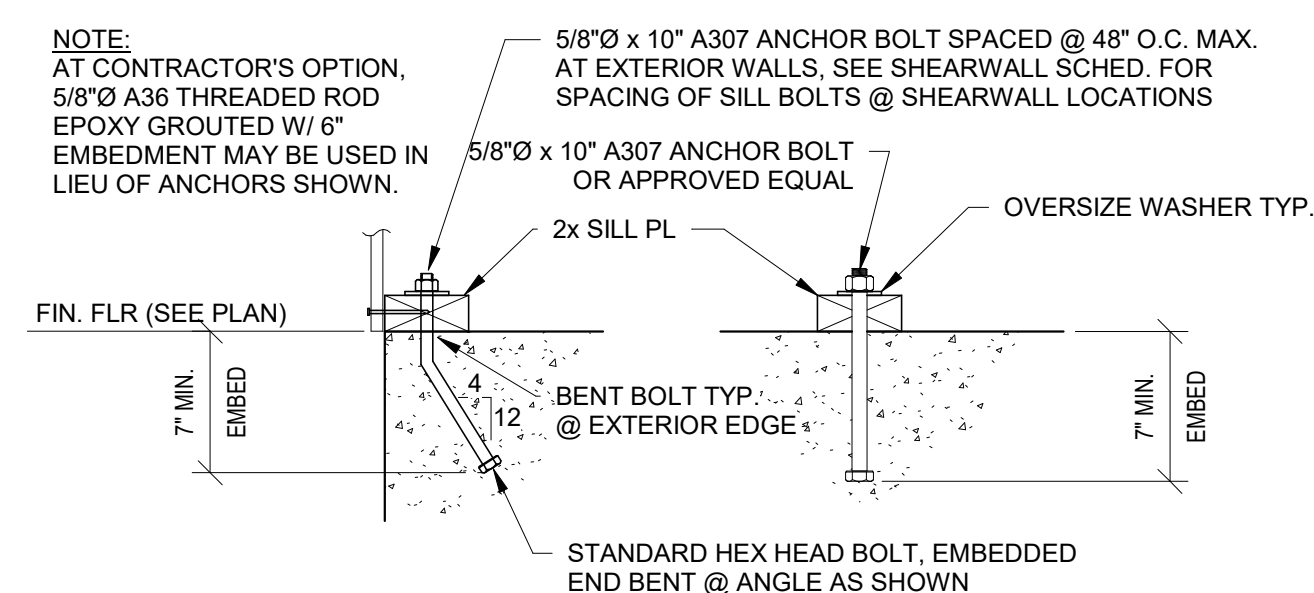


PLAN VIEW @ CORNER PLAN VIEW @ INTERSECTION

8 TYP. CORNER BARS @ FOOTINGS
NOT TO SCALE

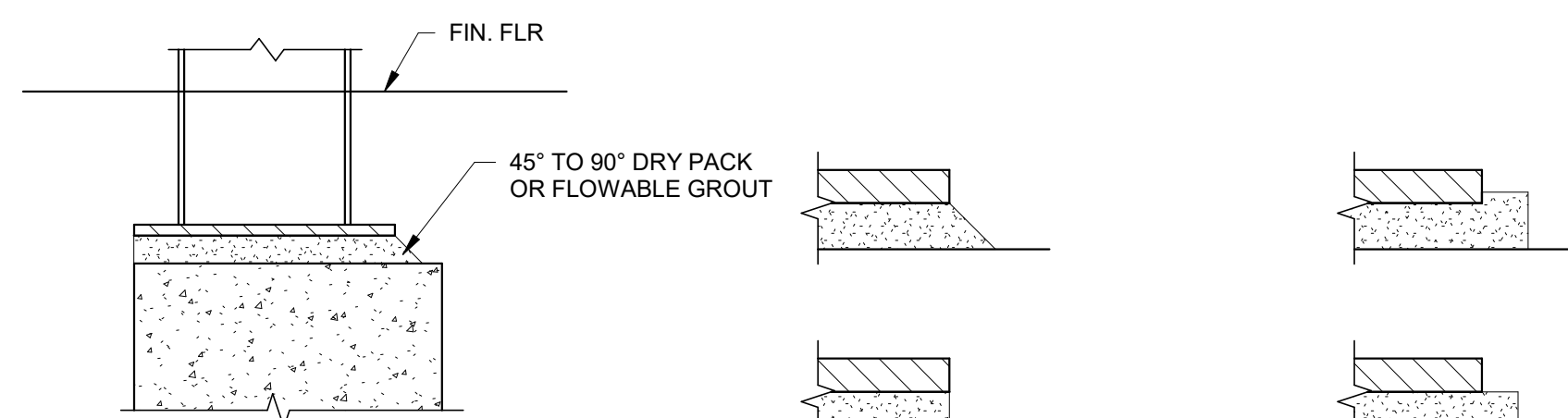


9 SHEARWALL HOLDOWN
NOT TO SCALE



EXTERIOR WALL INTERIOR WALL

10 SILL PLATE ANCHOR
NOT TO SCALE



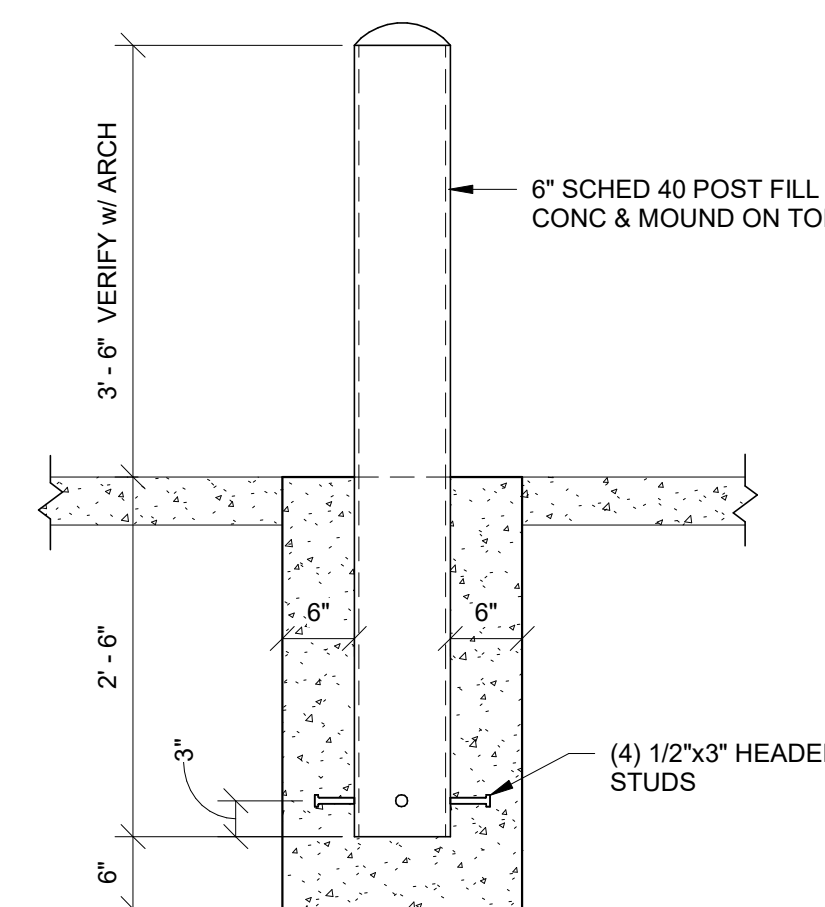
GROUT NOT EXPOSED

ACCEPTABLE

UNACCEPTABLE

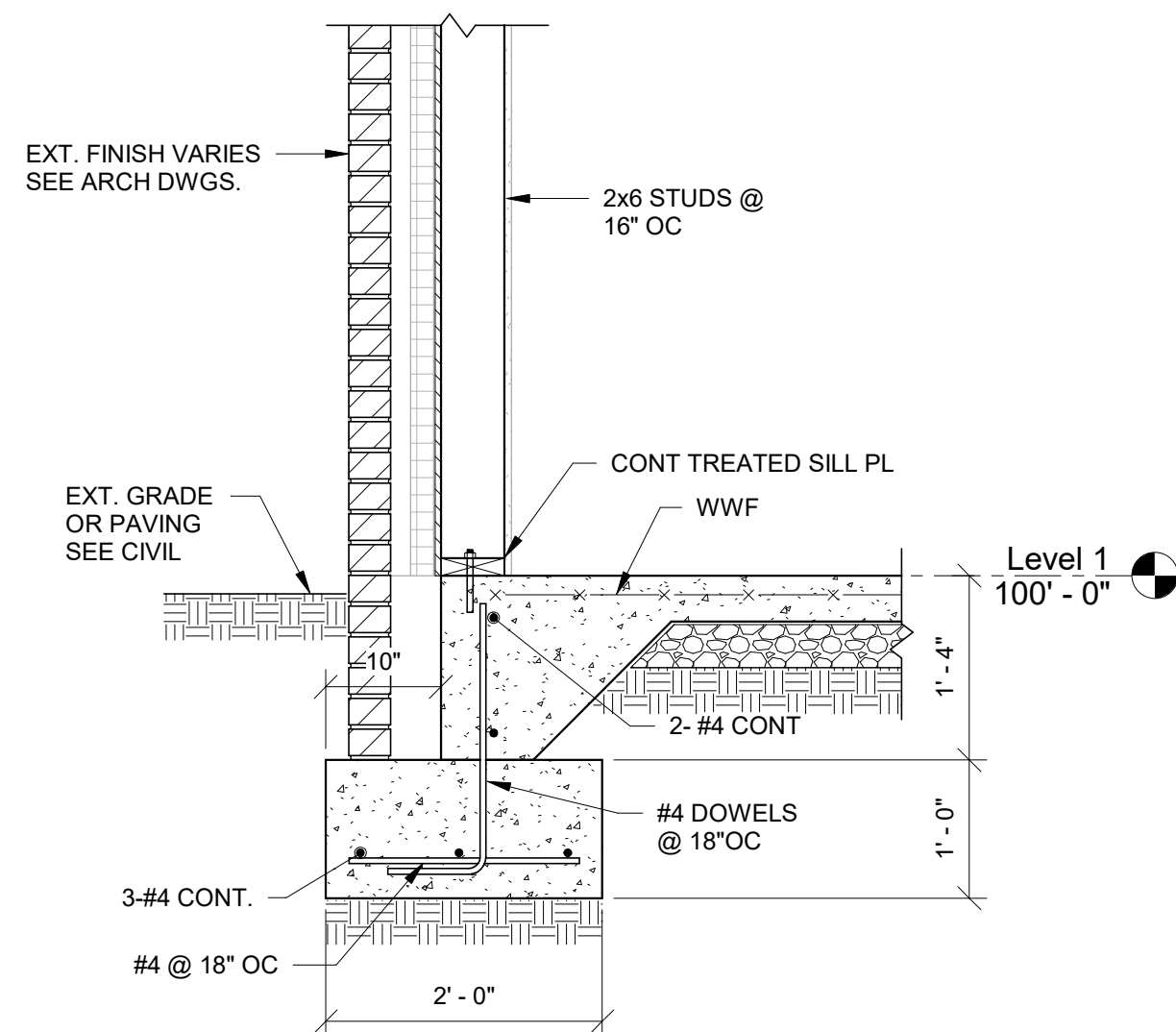
- NOTES:**
1. PROVIDE NON-SHRINK, NON-METALLIC GROUT COMPLYING WITH ASTM C1107. DRY PACK GROUT UNDER COLUMN BASE PLATES. FLOWABLE GROUT WILL BE ALLOWED FOR EQUIPMENT BASES AND WHERE GROUT IS NOT EXPOSED. FOLLOW MANUFACTURERS DIRECTIONS ON MIXING GROUT.
 2. MINIMUM COMPRESSIVE STRENGTH OF GROUT SHALL BE 6,000 PSI.
- COLUMN BASE PLATE:**
3. WHERE GROUT IS EXPOSED TO VIEW USE DRY PACK METHOD ONLY. PROVIDE SLOPED EDGE UNLESS OBSTRUCTION OR EDGE OF POSTERIOR PREVENTS SLOPED EDGE. COOL BASE PLATE W/ LIGHT WATER SPRAY AND PLACE GROUT BY DRY PACK METHOD. COVER GROUT WITH WET BURLAP FOR 72 HRS AFTER PLACEMENT.
 4. SEE MANUFACTURERS RECOMMENDATIONS FOR DRY PACKING. IN GENERAL DRY PACKING REQUIRES A THICK CONSISTENCY. THERE SHOULD ONLY BE ENOUGH WATER MIXED INTO THE GROUT SO THAT WHEN GROUT IS SQUEEZED BY GLOVED HAND THE GLOVE IS SLIGHTLY DAMPENED.
 5. GROUT SHOULD NOT EXTEND ABOVE BOTTOM OF BASE PLATE NOR HAVE AN UNCHAMFERED SHOULDER.
- EQUIPMENT BASES & BASE PLATES NOT EXPOSED:**
6. FLOWABLE GROUT FORMS MUST BE USED. COAT FORMS WITH PASTE WAX, FORM OIL OR OTHER APPROVED RELEASE AGENT. FORMS MUST BE LARGER THAN BASE PLATE ON ALL SIDES.
 7. MAINTAIN HEAD ON GROUT WHILE POURING. WHEN GROUT HAS STIFFENED TO THE POINT IT WILL HOLD SHAPE REMOVE FORMS AND CUT SHOULDERS BACK AT 45° FROM BOTTOM OF BASE PLATE TO FOUNDATION. SEE NOTE 3 ABOVE FOR CURING.

11 BASE PLATE GROUTING DETAIL

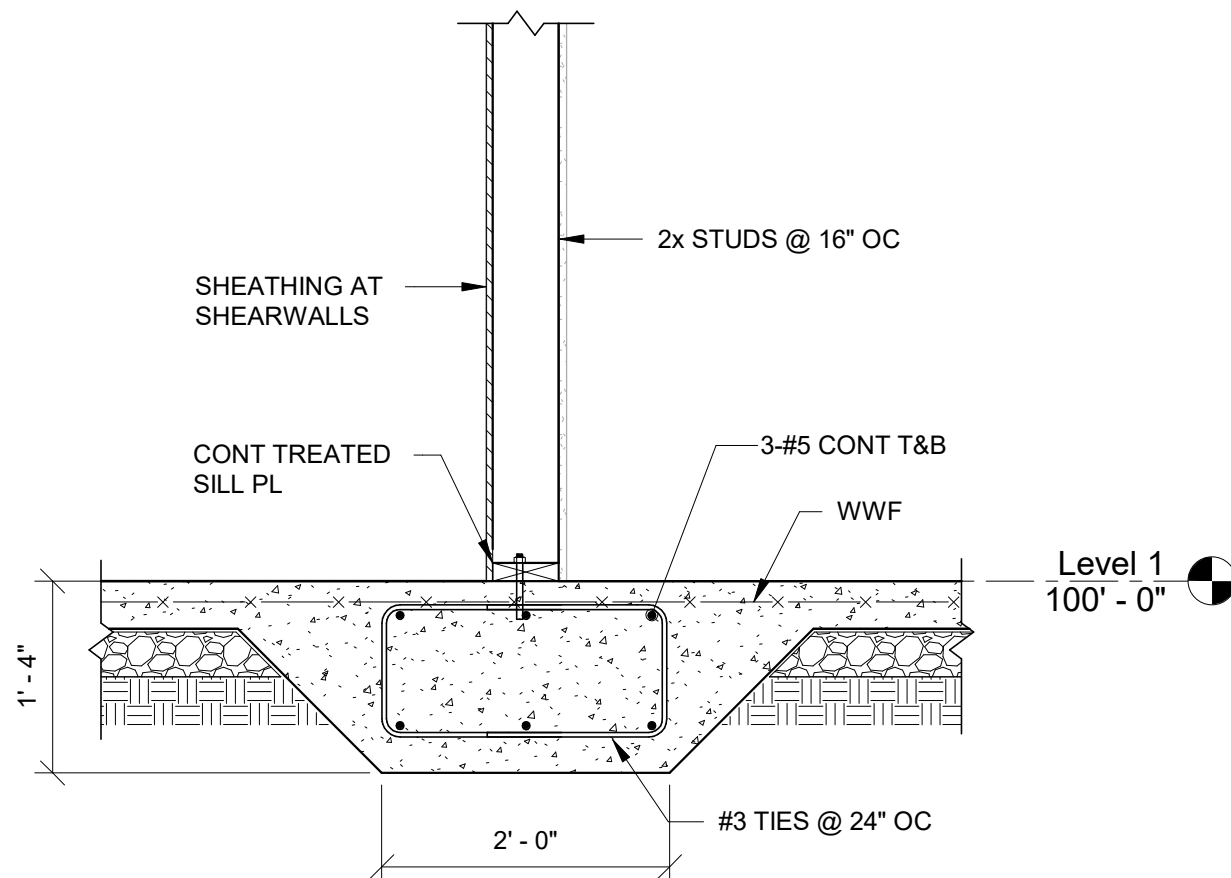


12 TYPICAL BOLLARD DETAIL

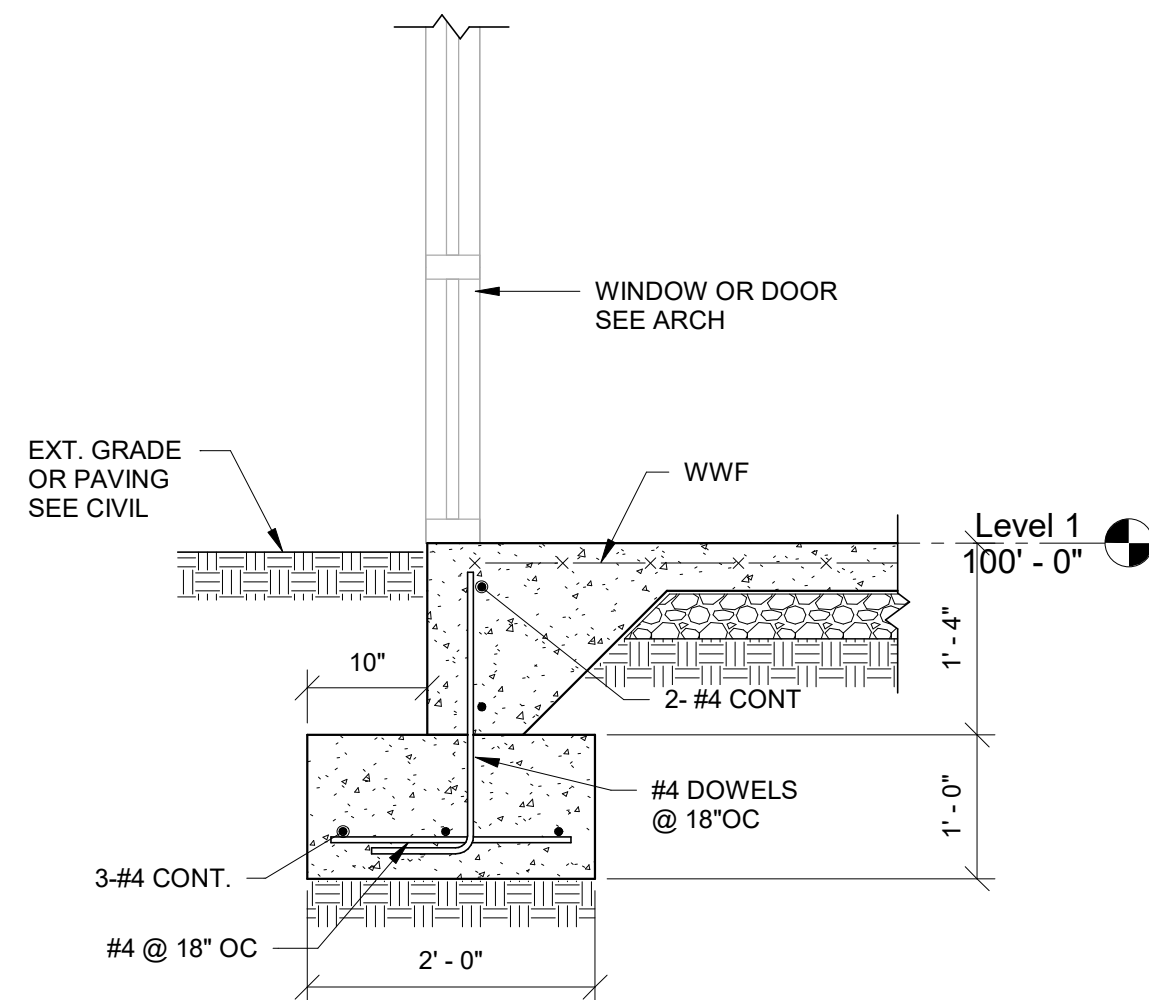
NOT TO SCALE



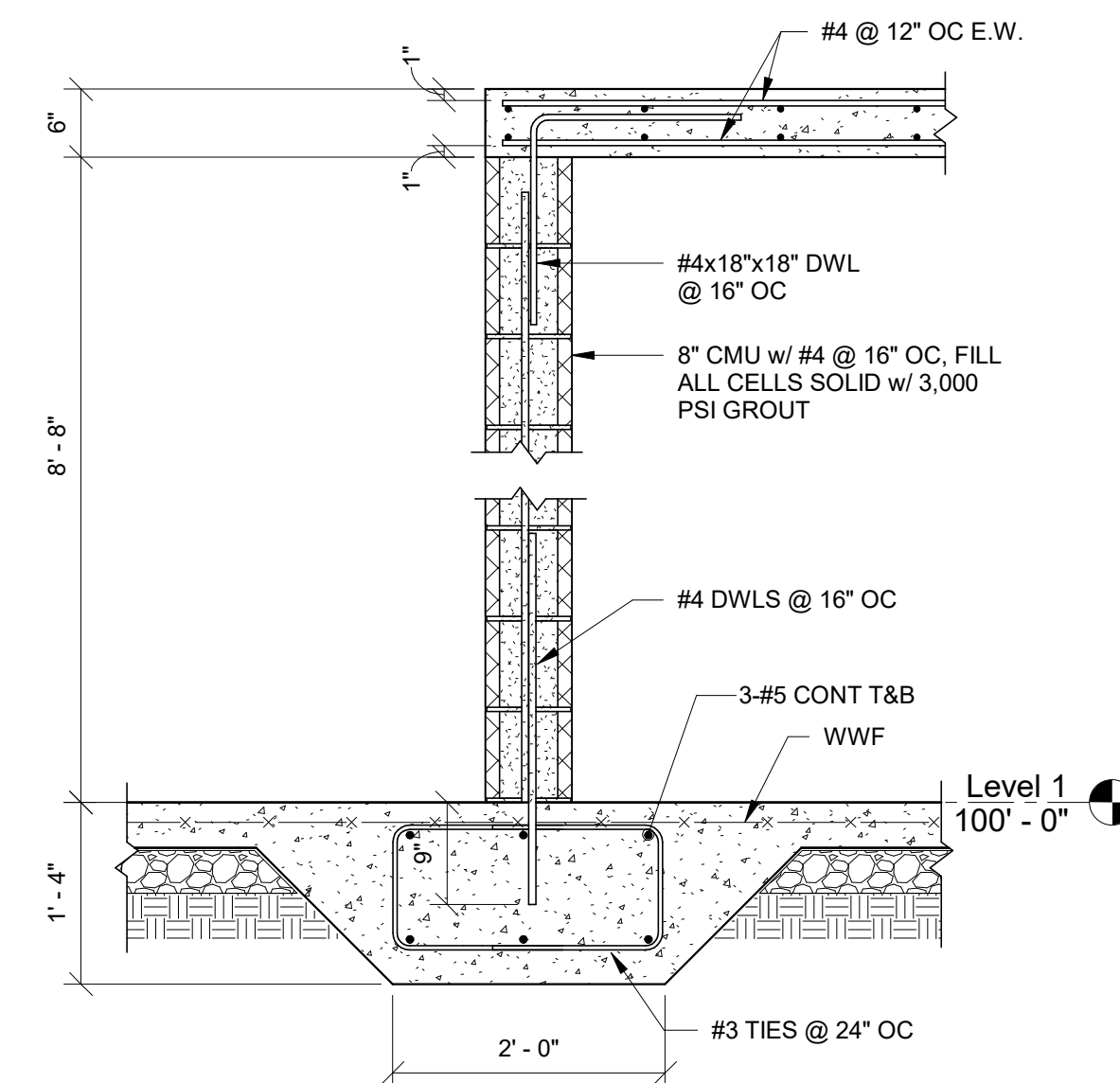
1 SECTION @ EXT. STUD WALLS
3/4" = 1'-0"



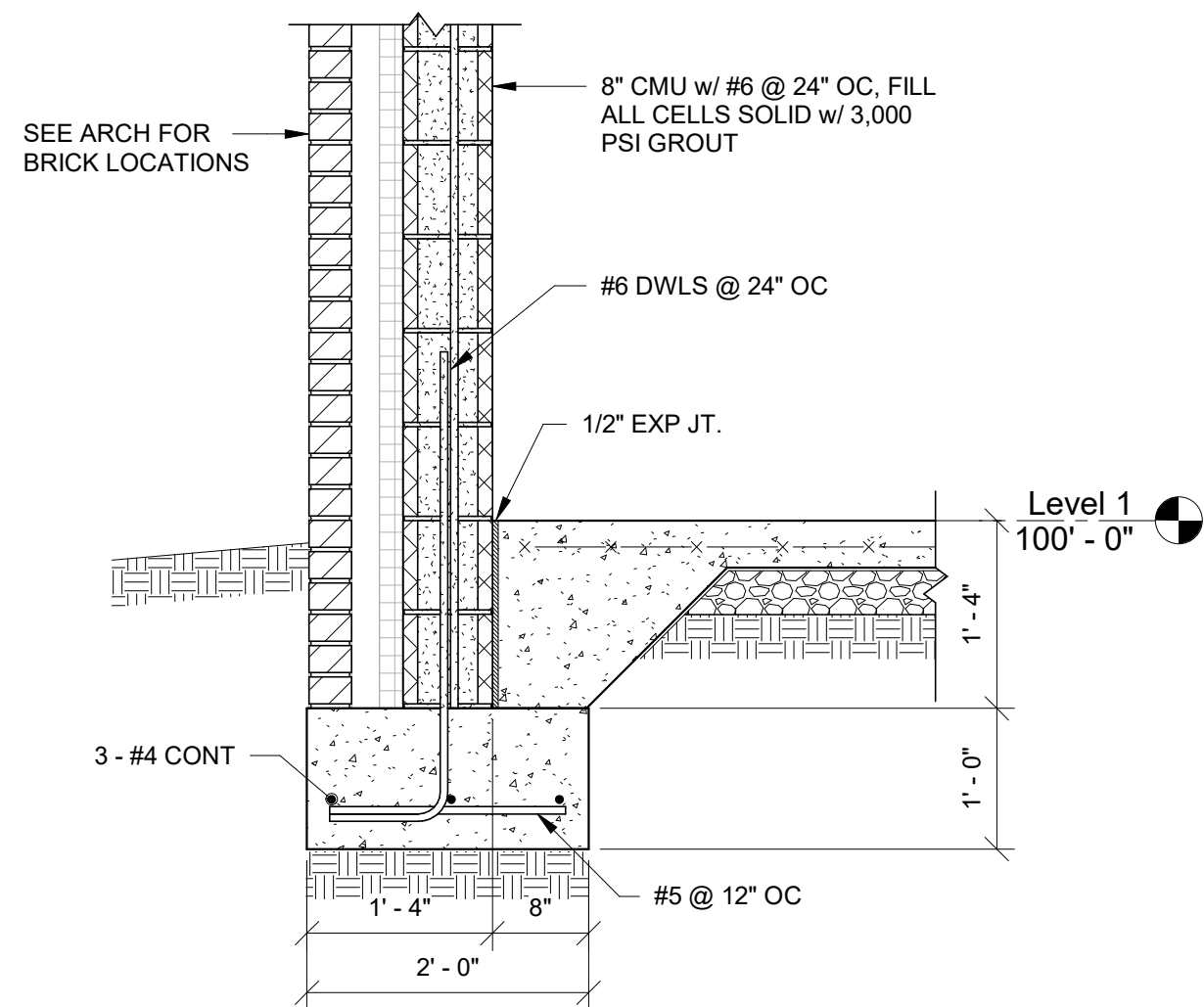
2 SECTION @ INT. BEARING WALLS
3/4" = 1'-0"



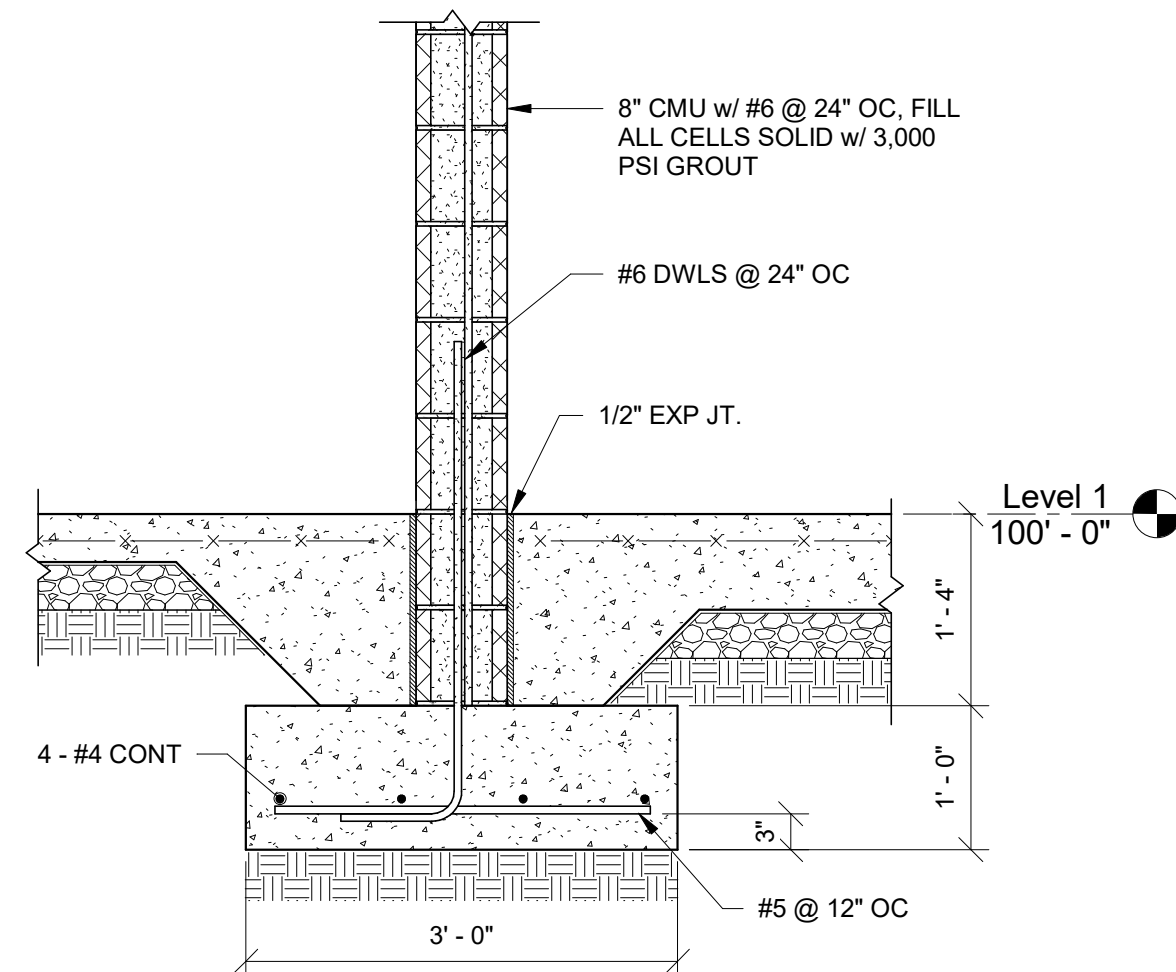
3 SECTION
3/4" = 1'-0"



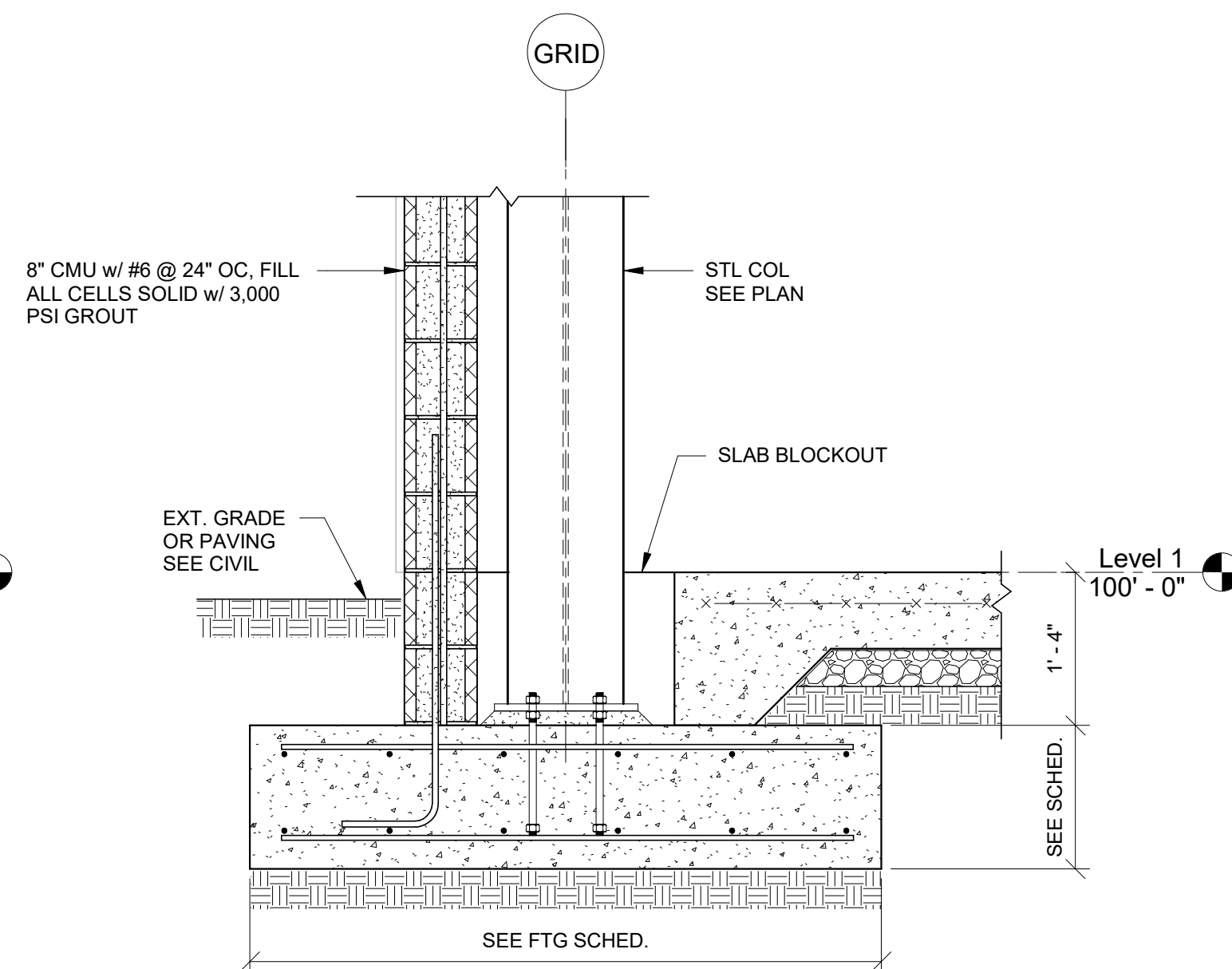
4 SECTION @ COMMS ROOM
3/4" = 1'-0"



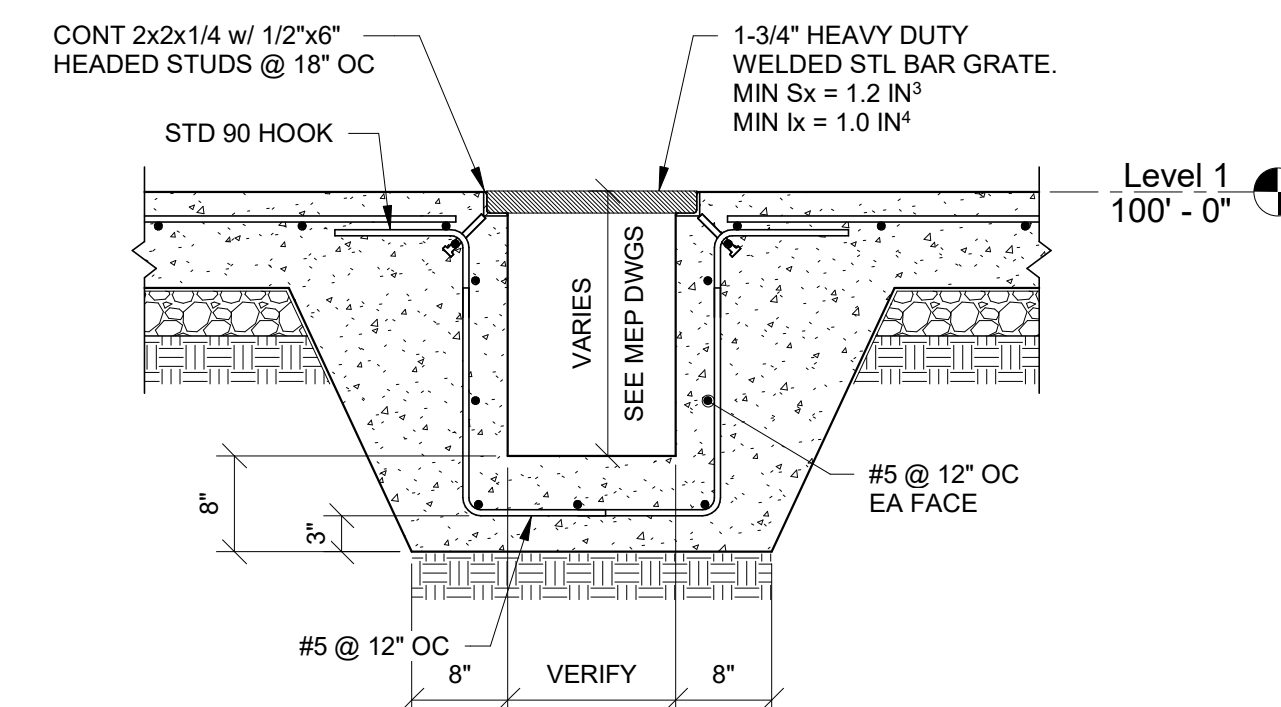
5 SECTION
3/4" = 1'-0"



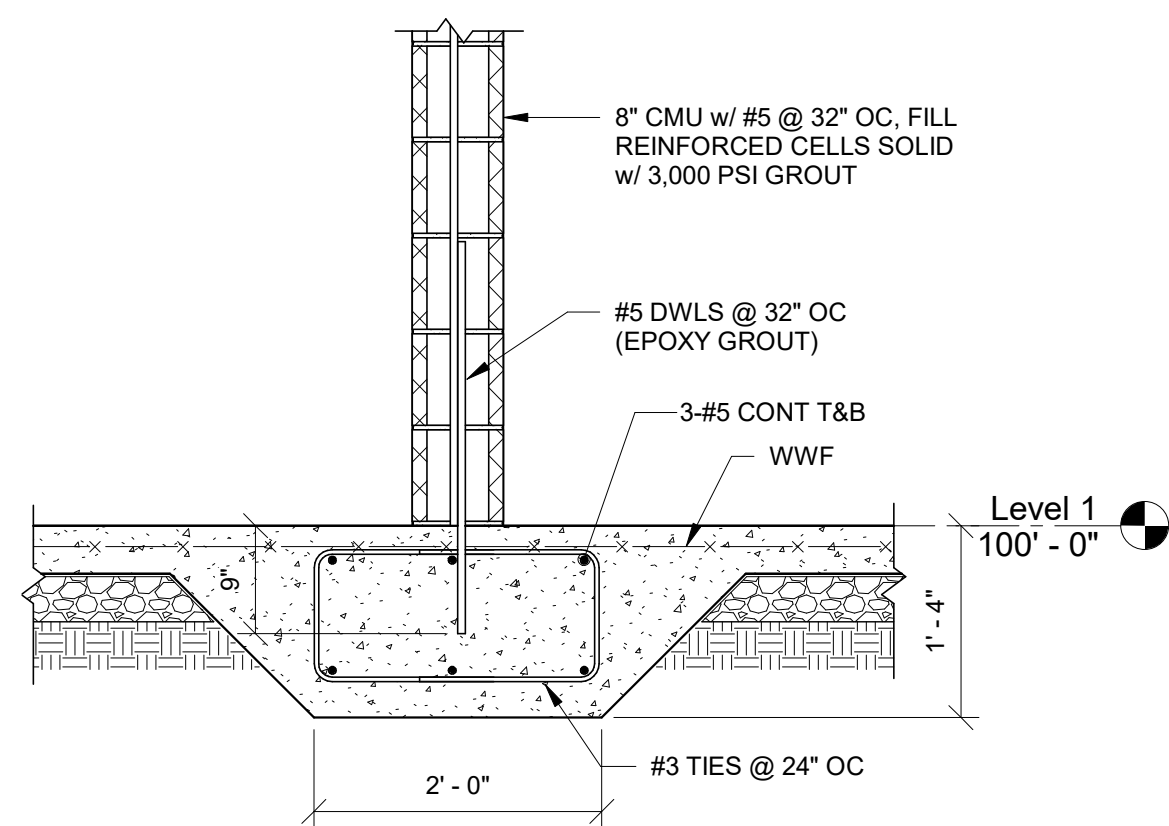
6 SECTION
3/4" = 1'-0"



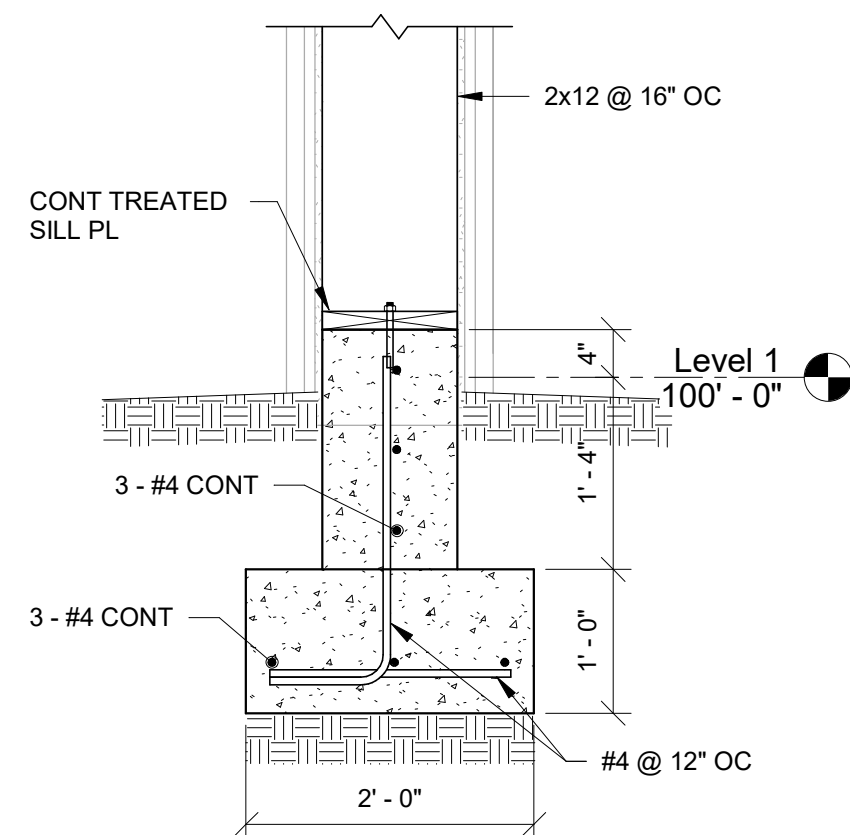
7 SECTION
3/4" = 1'-0"



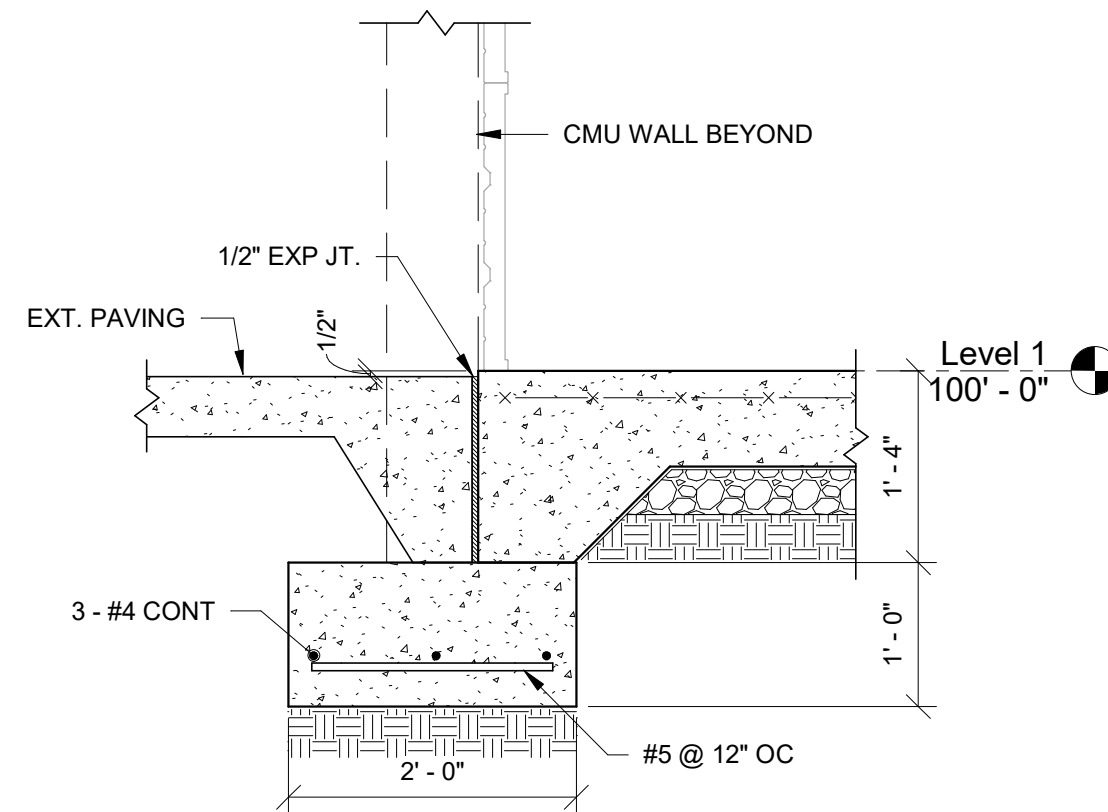
8 TYP. SECTION @ TRENCH DRAIN
3/4" = 1'-0"



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



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



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



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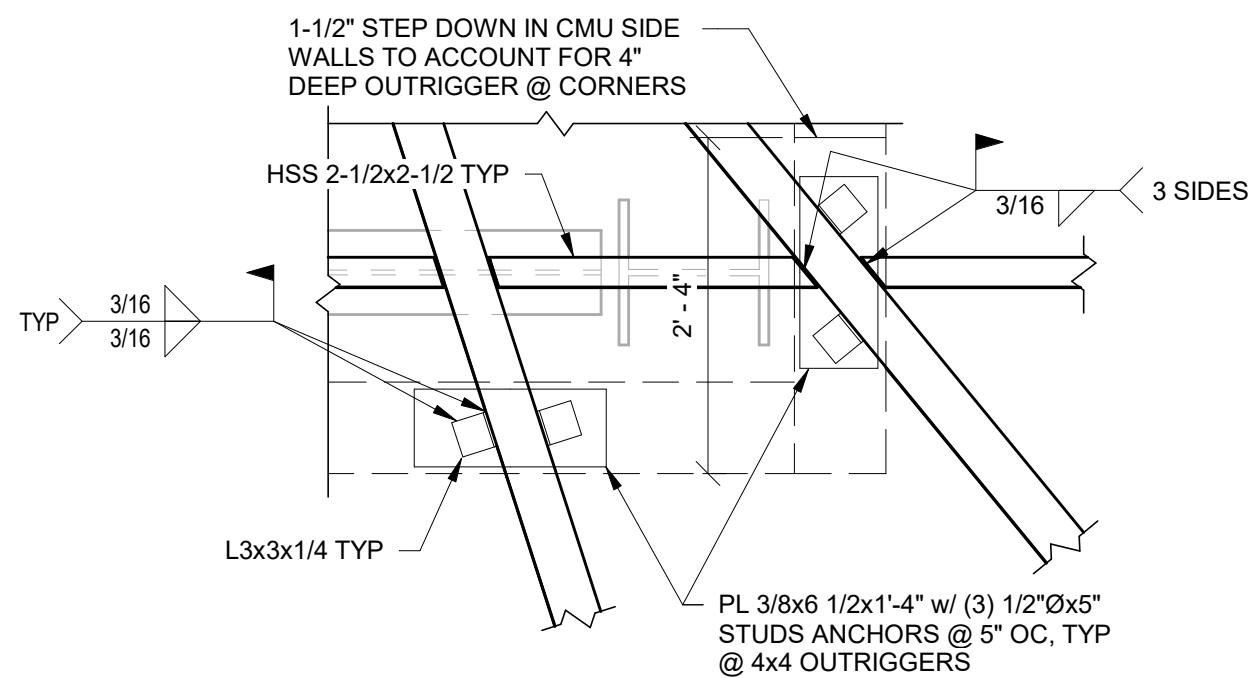
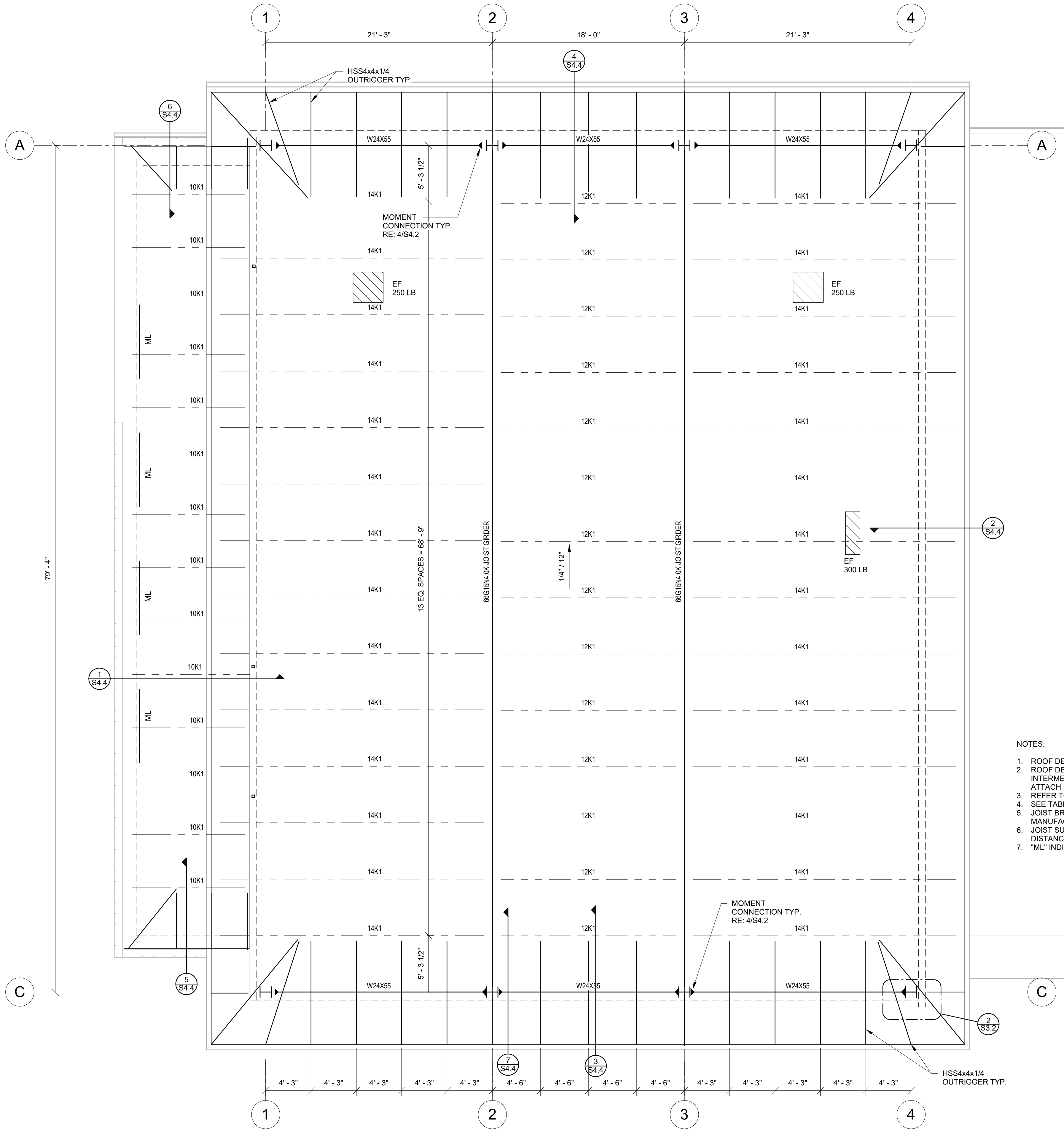
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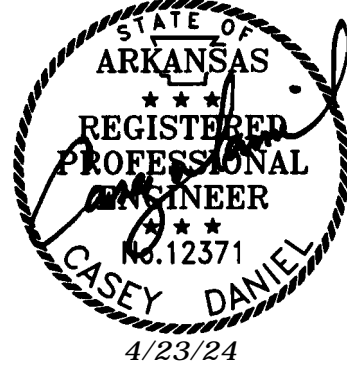


2 ENLARGED CORNER DETAIL
3/4" = 1'-0"

- NOTES:
1. ROOF DECK BEARING EL. VARIES SEE SECTIONS.
 2. ROOF DECK: 1/2" X 20 GA WIDE RIB GALV. DECK. ATTACH WITH 36/5 PATTERN @ END LAPS & INTERMEDIATE SUPPORTS w/ 5/8" WELDS OR EQUIVALENT. ATTACH SIDELAPS @ 18" OC w/ #10 SCREWS. ATTACH PERIMETER EDGES @ 6" OC WITH 5/8" WELD OR EQUIVALENT.
 3. REFER TO SECTION CUTS FOR TOP OF STEEL ELEVATIONS.
 4. SEE TABLE ON S0.2 FOR NET UPLIFT ON JOISTS DUE TO WIND.
 5. JOIST BRIDGING NOT SHOWN FOR CLARITY. INSTALL BRIDGING ACCORDING TO SJI SPECIFICATIONS AND MANUFACTURER'S REQUIREMENTS.
 6. JOIST SUPPLIER MAY STAGGER JOISTS SLIGHTLY WHERE REQUIRED TO OBTAIN MINIMUM END BEARING DISTANCE.
 7. "ML" INDICATES MASONRY LINTEL PER 6/S4.2.



1 HIGH ROOF FRAMING PLAN
3/16" = 1'-0"



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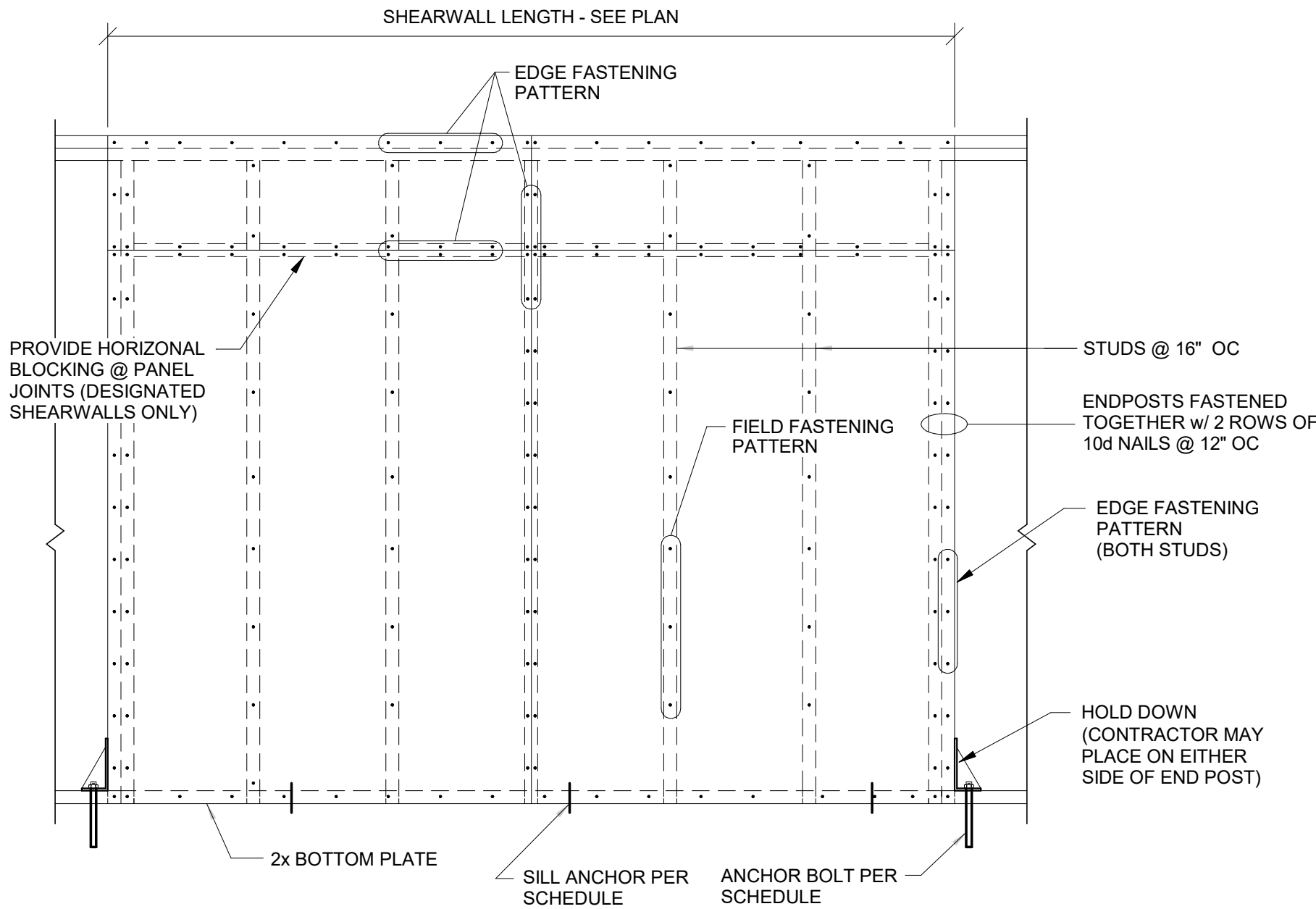
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**HIGH ROOF
FRAMING PLAN**

SHEET
S3.2

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SHEARWALL SCHEDULE								
MARK	TYPE	WALL SHEATHING	NAILING	HOLD DOWNS	HOLD DOWN ANCHOR	SILL BOLT	END POSTS	END POST FASTENERS
SW-1	EXTERIOR	15/32" APA GR. I, EXT EXTERIOR SIDE	EDGE - 8d COMMON @ 4" O.C. FIELD - 8d COMMON @ 12" O.C.	SIMPSON HDU5-SDS2.5	5/8" Ø A36 W/ 12" EMBEDMENT	5/8" Ø A307 @ 32" O.C. W/ MIN 7" EMBEDMENT	2-2x6 @ #2 SO. PINE MINIMUM	14 - SIMPSON SDS 1/4x2.5" WOOD SCREWS
SW-2	INTERIOR	15/32" APA GR. I, EXT ONE SIDE	EDGE - 8d COMMON @ 4" O.C. FIELD - 8d COMMON @ 12" O.C.	SIMPSON HDU5-SDS2.5	5/8" Ø A36 W/ 12" EMBEDMENT	5/8" Ø A307 @ 32" O.C. W/ MIN 7" EMBEDMENT	2-2x6 @ #2 SO. PINE MINIMUM	14 - SIMPSON SDS 1/4x2.5" WOOD SCREWS

NOTES:
1. HORIZONTAL PANEL EDGES SHALL HAVE BLOCKING WITH 2" NOMINAL OR WIDER FRAMING, AND ALL VERTICAL PANEL EDGES SHALL OCCUR AT 2x FRAMING MEMBERS.
2. THE NOMINAL LENGTH AND LOCATION OF SHEARWALL ENDS WITH HOLD DOWNS ARE INDICATED ON THE DWGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE THE EXACT LOCATION OF THE ANCHOR BOLTS SO AS TO NOT INTERFERE WITH THE WINDOW OR DOOR JAMBS.
3. THE A36 THREADED ROD ANCHOR RODS SHALL BE EPOXY GROUTED INTO THE EXISTING CONCRETE WITH HILTI HIT RE 500 OR EQUAL.
4. ALL SHEARWALL SILL ANCHOR BOLTS SHALL HAVE SIMPSON BP 5/8 S-SDS 1 1/2 FLAT PLATE WASHER WITH WOOD SCREWS. PROVIDE SILL ANCHORS AS SHOWN IN SCHEDULE WITH NO LESS THAN 3 SILL BOLTS IN EACH SHEARWALL SEGMENT.

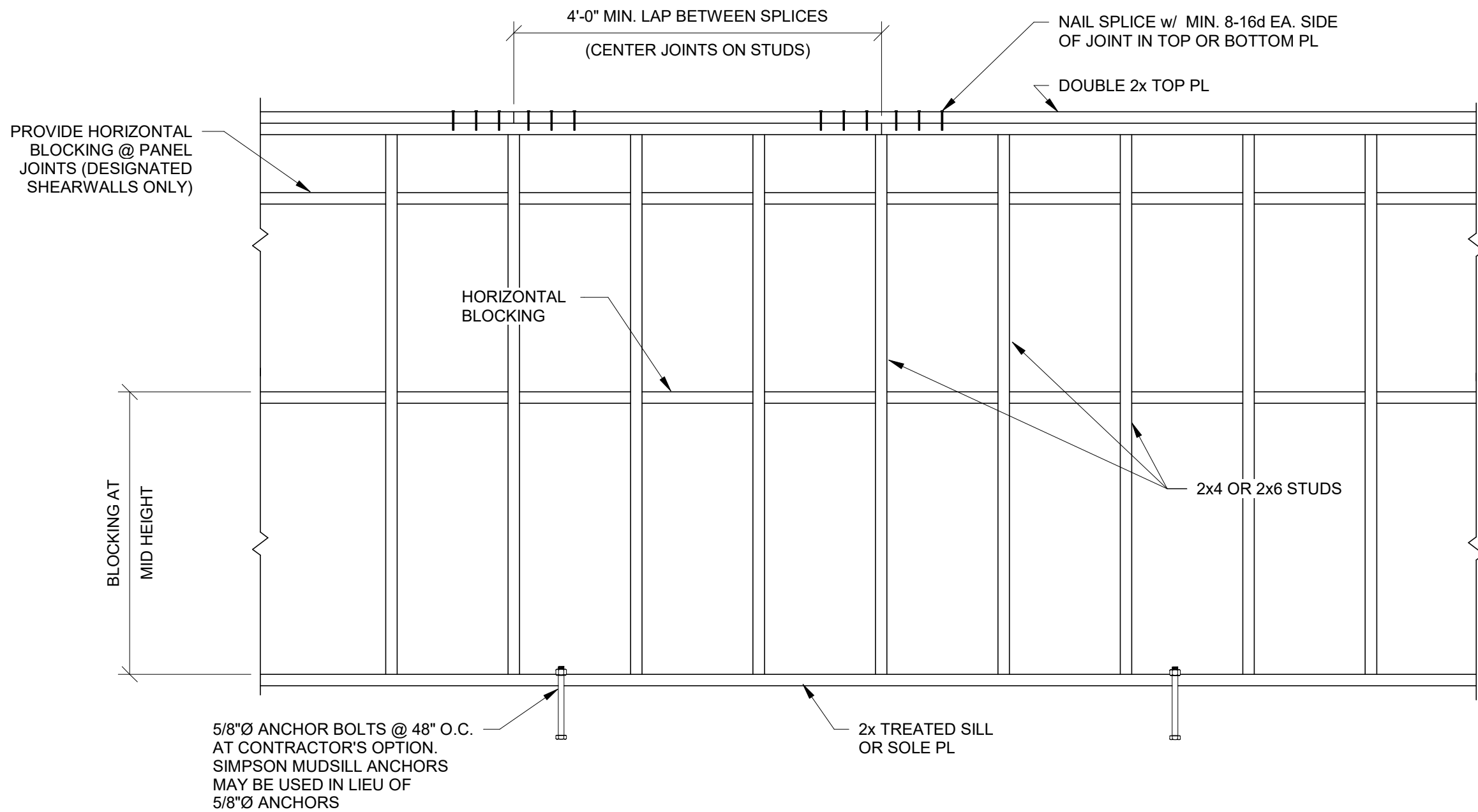


WINDOW & DOOR HEADER SCHEDULE			
SPAN	SIZE	GRADE	REMARKS
0'-0" TO 4'-6"	3-2x6	#2 S.Y.P.	USE 2-2x8 @ 2x4 WALLS
4'-7" TO 6'-0"	3-2x8	#2 S.Y.P.	USE 2-2x10 @ 2x4 WALLS
6'-1" TO 7'-0"	3-2x10	#2 S.Y.P.	USE 2-2x10 @ 2x4 WALLS
7'-1" TO 9'-0"	3-2x12	#2 S.Y.P.	USE 2-2x12 @ 2x4 WALLS
OVER 9'-0"	5.25x11.25 LVL	2.0E / 3100 Fb	

NOTE:
SCHEDULE APPLIES AT LOAD BEARING WALLS U.N.O. OTHERWISE ON THE PLANS.

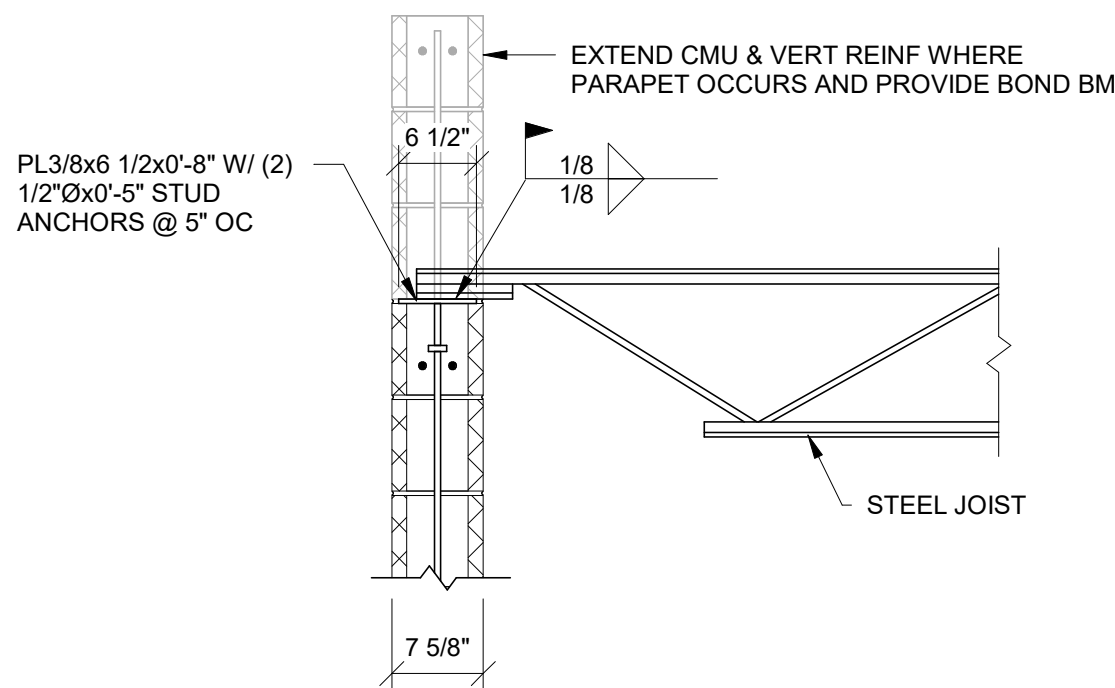
1 WOOD SHEARWALL SCHEDULE & ELEVATION

NOT TO SCALE



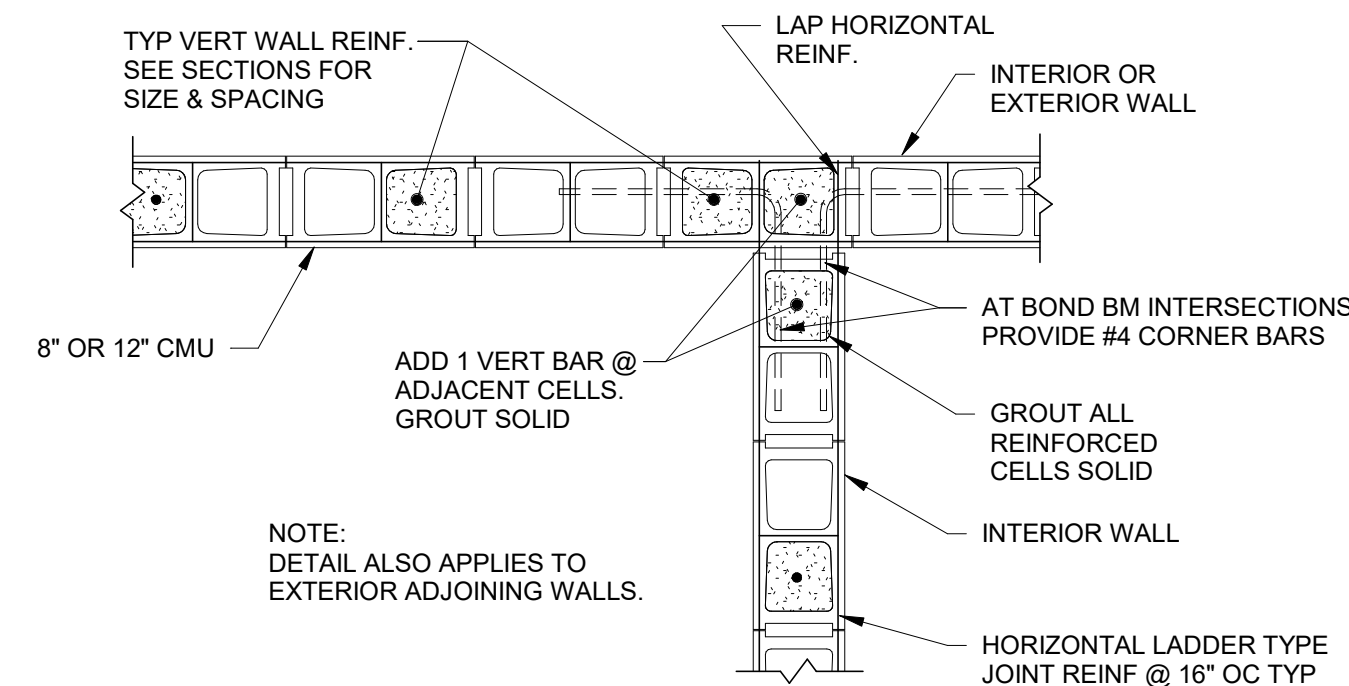
3 STUD BEARING WALL

NOT TO SCALE



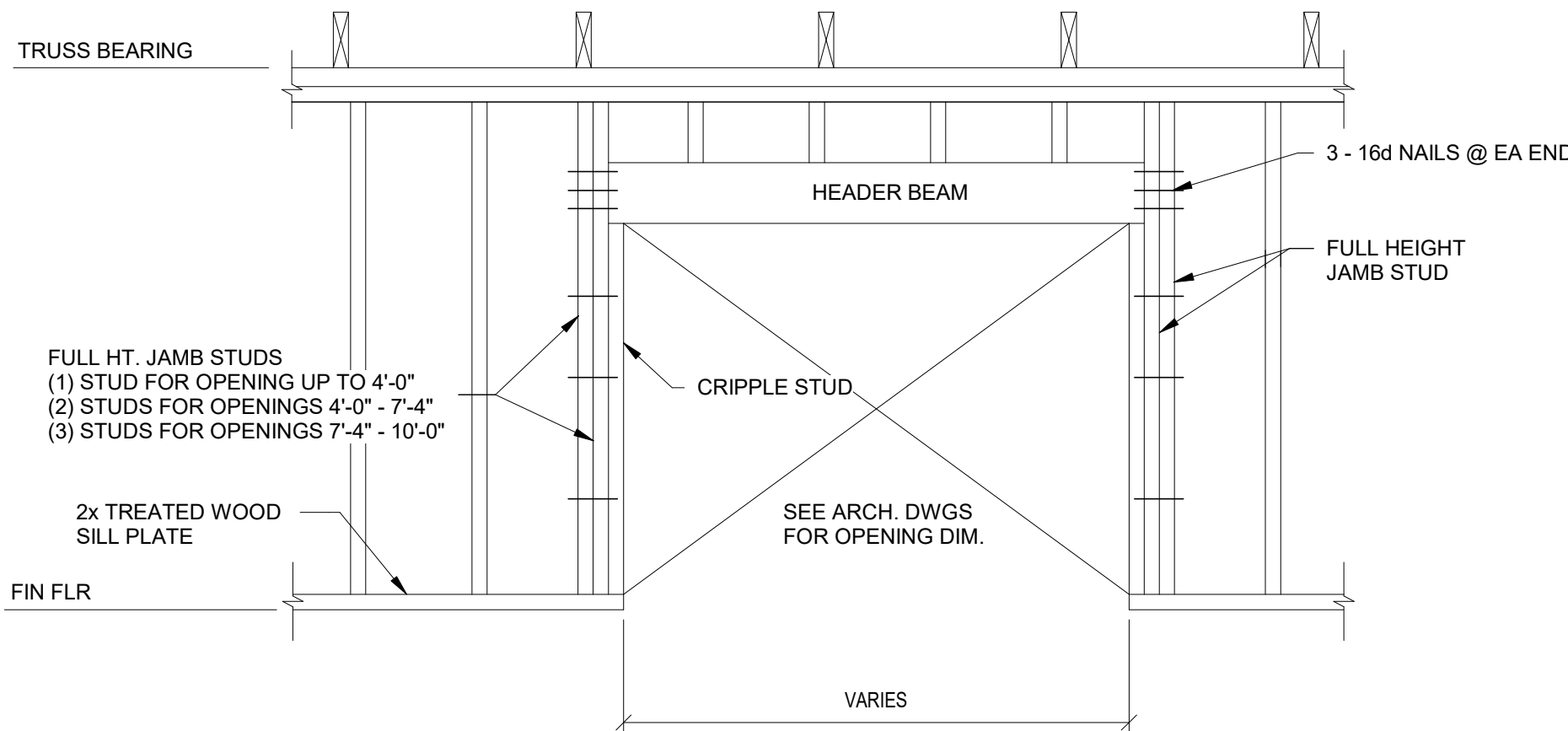
6 JOIST BEARING ON MASONRY

NOT TO SCALE



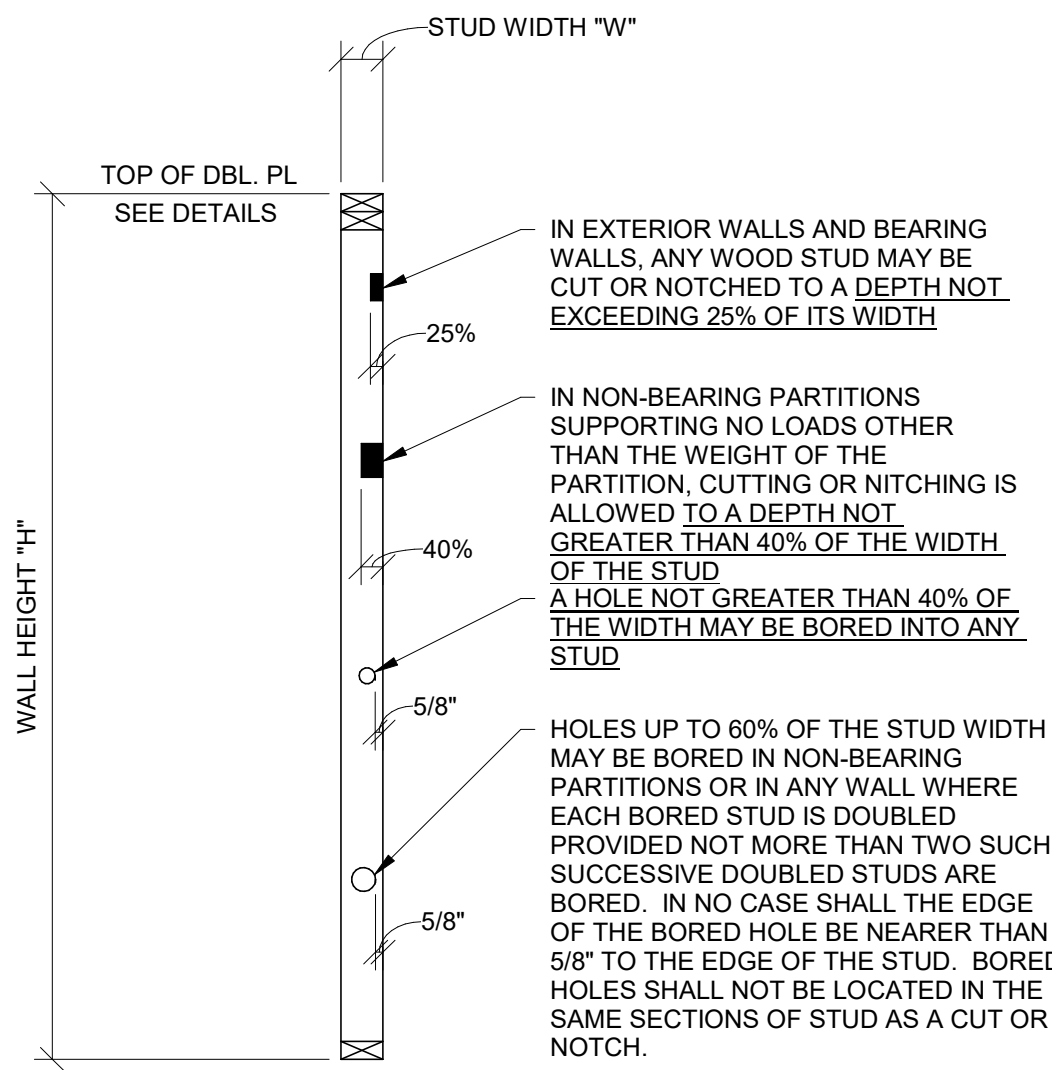
7 TYP. INTERSECTION @ CMU WALLS

NOT TO SCALE



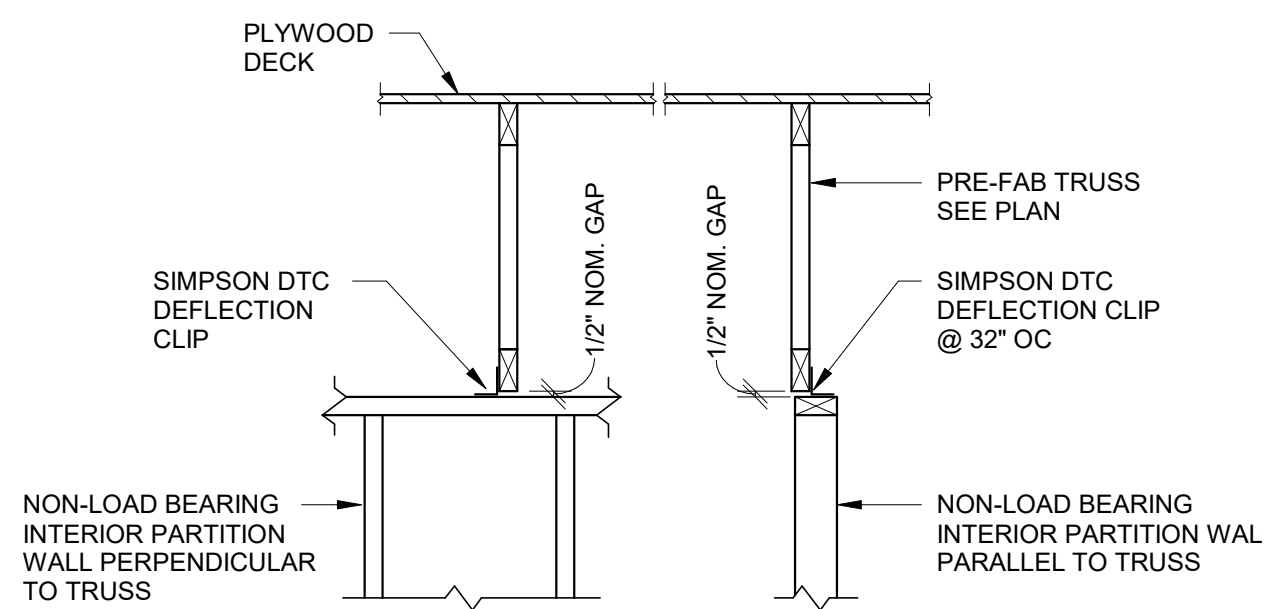
4 OPENING @ LOAD BEARING WALL

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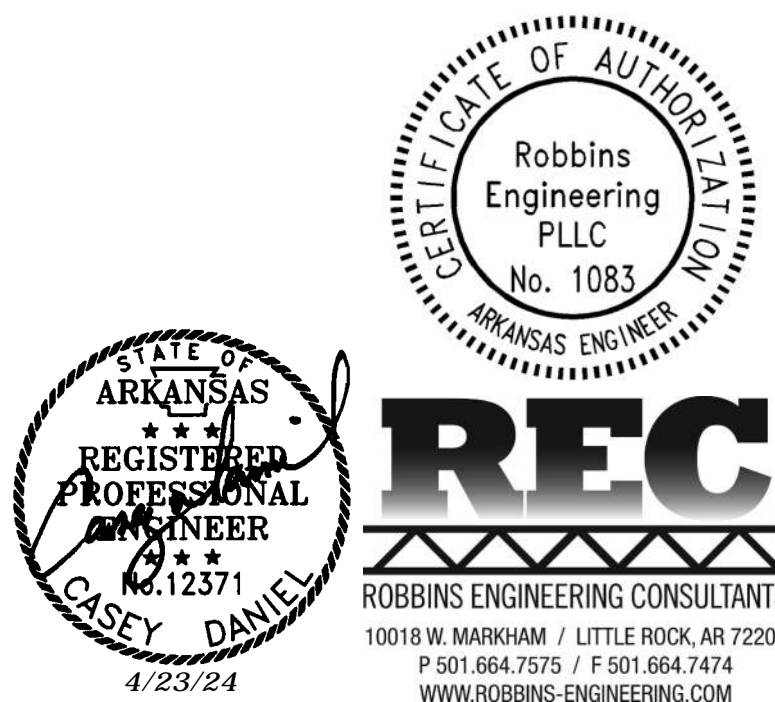
5 NOTCHING & BORING OF STUDS

NOT TO SCALE



8 DETAIL - TYP. INTERIOR PARTITION SUPPORT

NOT TO SCALE



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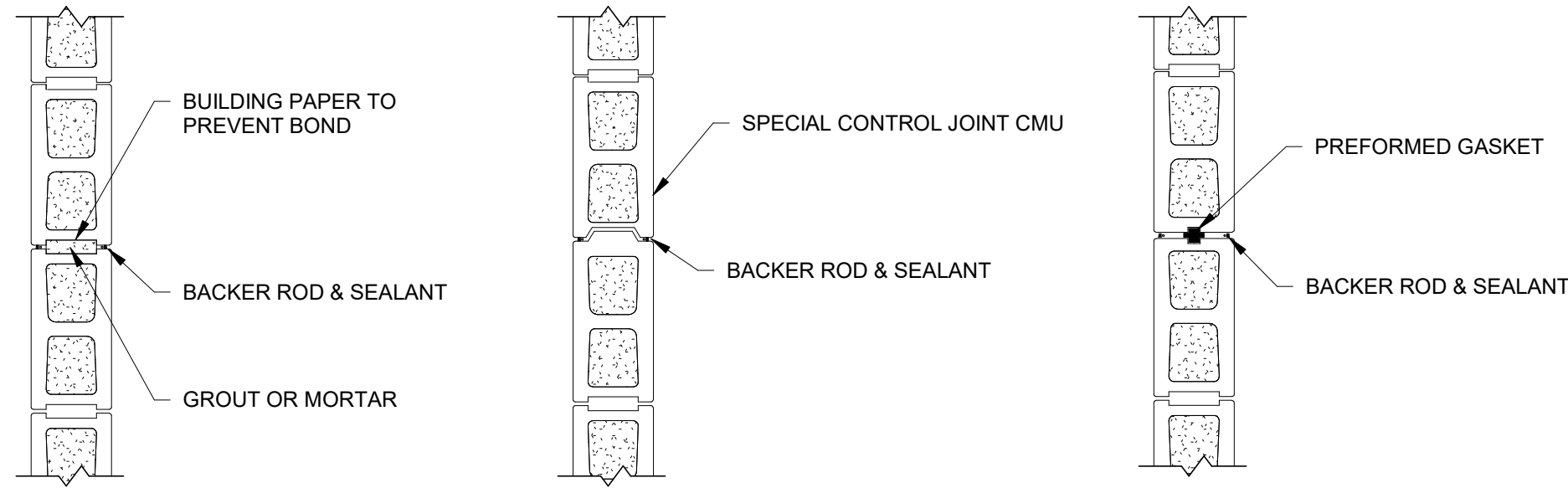
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**TYP FRAMING
DETAILS**

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TYP WALL CONTROL JOINT-OPTION 1

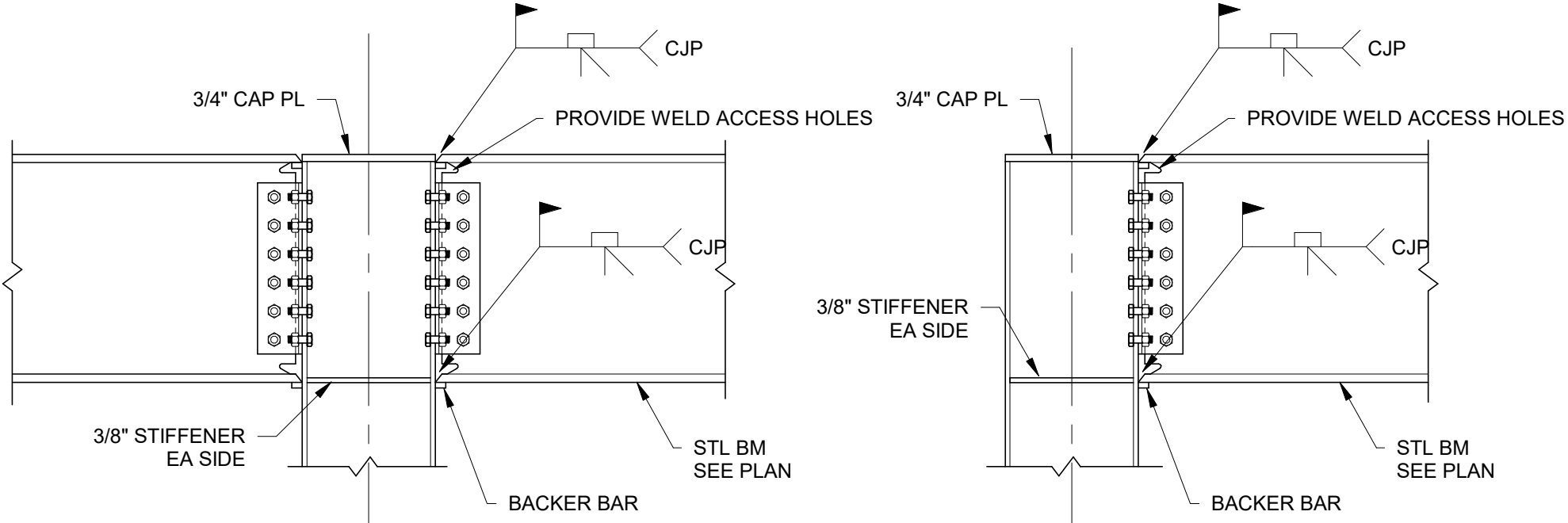
TYP WALL CONTROL JOINT-OPTION 2

TYP WALL CONTROL JOINT-OPTION 3

- NOTES:
1. SEE ARCH DRAWINGS FOR CONTROL JOINT LOCATIONS.
 2. IF CONTROL JOINTS ARE NOT LOCATED ON ARCHITECTURAL DRAWINGS PLACE @ SPACINGS NOT EXCEEDING 30'-0" OC.

1 TYP. WALL CONTROL JOINT (WCJ)

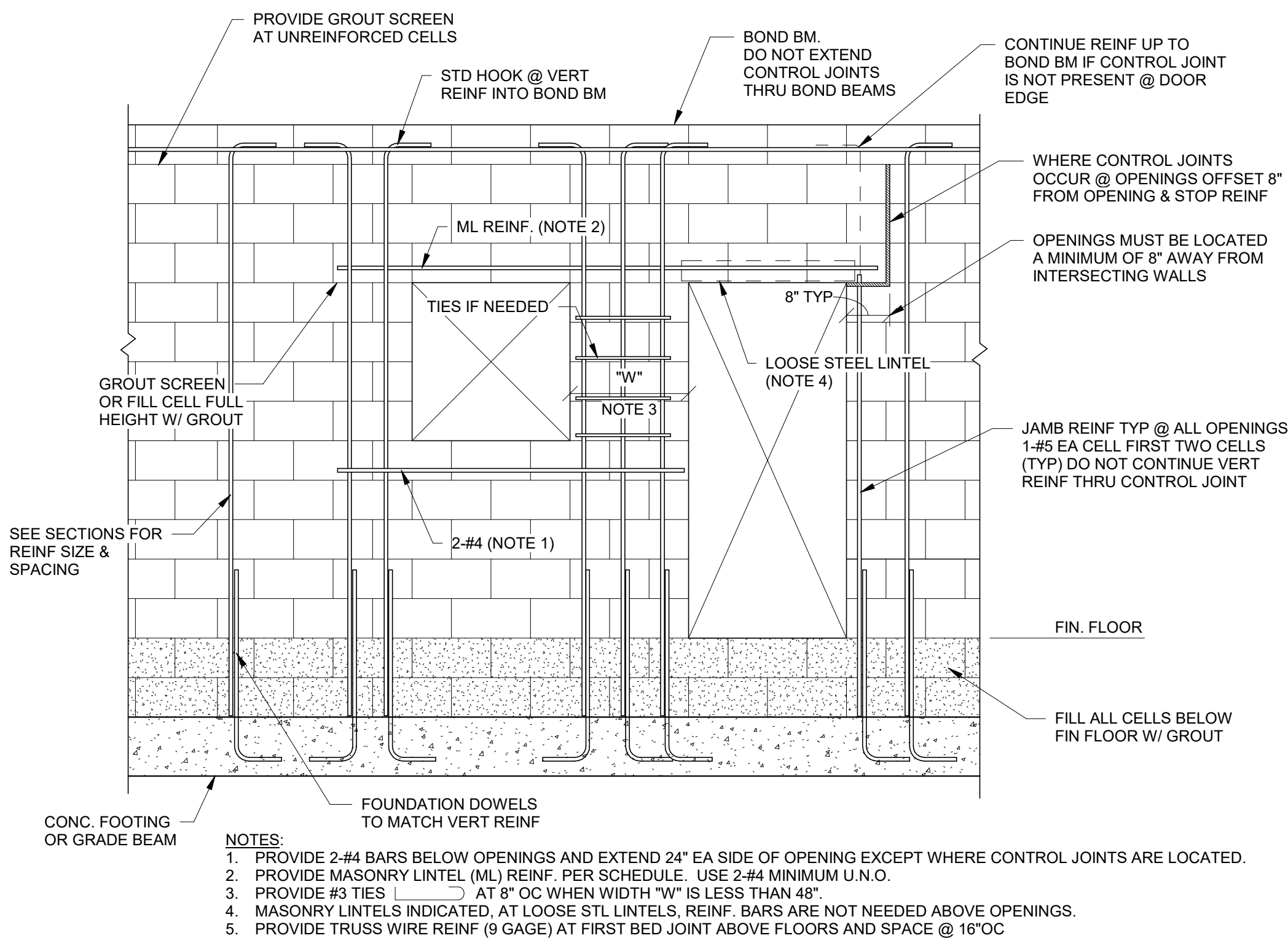
NOT TO SCALE



- NOTES:
1. PROVIDE DECK CLOSURE PLATES WHERE COL'S ARE HIGHER THAN DECK BEARING.
 2. PROVIDE BACKER BAR @ TOP & BOT OF BM.
 3. SPECIAL INSPECTION REQUIRED AT ALL FULL PENETRATION WELDS.

4 TYP DIRECT WELDED MOMENT CONNECTION

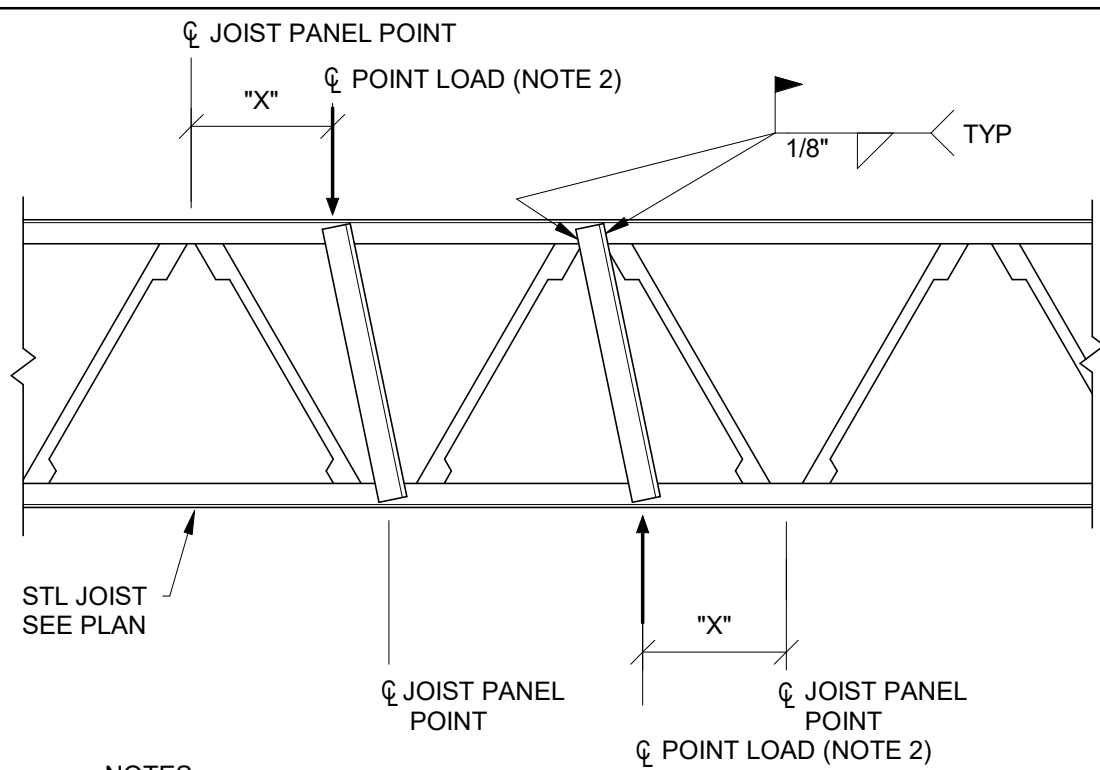
NOT TO SCALE



- NOTES:
1. PROVIDE 2-#4 BARS BELOW OPENINGS AND EXTEND 24\"/>

7 TYP. WALL REINFORCEMENT

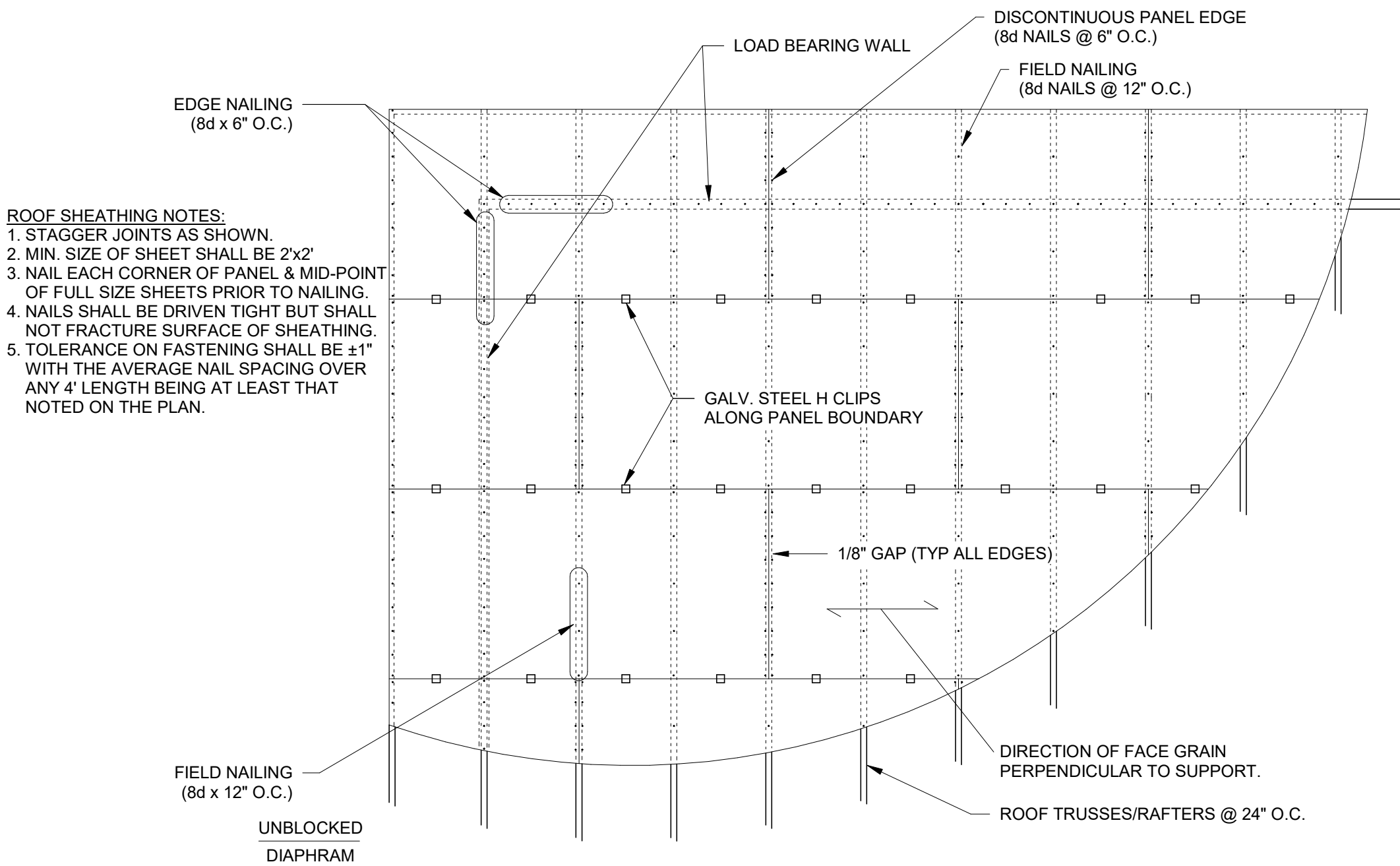
NOT TO SCALE



- NOTES:
1. POINT LOADS ARE NOT PERMITTED EXCEPT WHERE INDICATED ON STRUCTURAL DRAWINGS OR SPECIFICATIONS.
 2. FOR POINT LOADS IN EXCESS OF 100#, PROVIDE L2x2x3/16 STRUT WHEN DISTANCE "X" EXCEEDS 4\"/>

2 TYP. CONCENTRATED LOAD @ JOISTS

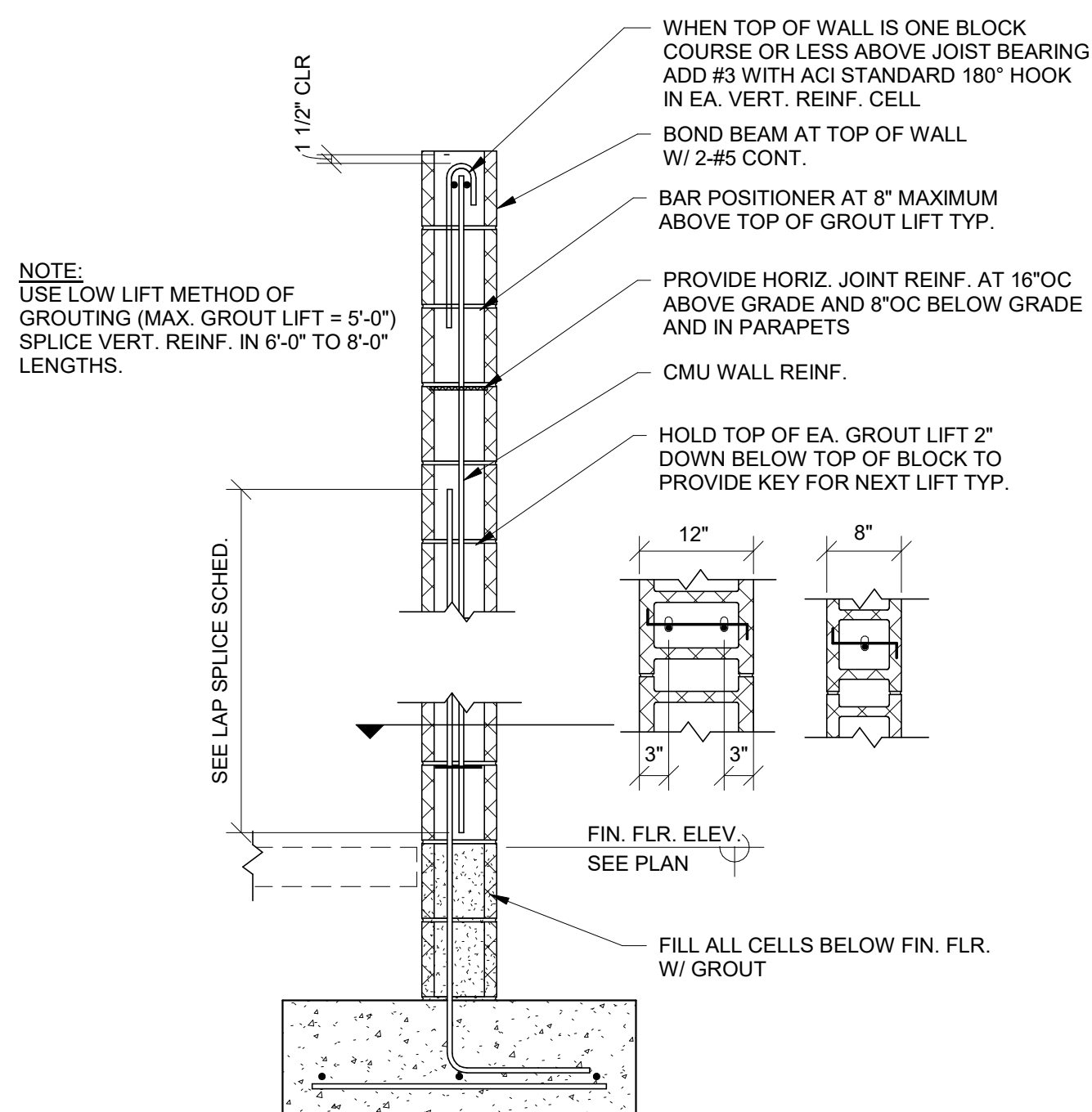
NOT TO SCALE



- ROOF SHEATHING NOTES:
1. STAGGER JOINTS AS SHOWN.
 2. MIN. SIZE OF SHEET SHALL BE 2'x2'.
 3. NAIL EACH CORNER OF PANEL & MID-POINT OF FULL SIZE SHEETS PRIOR TO NAILING.
 4. NAILS SHALL BE DRIVEN TIGHT BUT SHALL NOT FRACTURE SURFACE OF SHEATHING.
 5. TOLERANCE ON FASTENING SHALL BE ±1\"/>

5 ROOF SHEATHING FASTENER PATTERNS

NOT TO SCALE



- NOTE:
- USE LOW LIFT METHOD OF GROUTING (MAX. GROUT LIFT = 5'-0\")
- SPLICE VERT. REINF. IN 6'-0\"/>

8 CMU WALL REINFORCING DIAGRAM

NOT TO SCALE

LOOSE STEEL LINTEL SCHEDULE (LSL)			
CLEAR OPENING NOT TO EXCEED	LINTEL	BEARING EA. END	REMARKS
7'-4" OR LESS	L5x5x5/16	8"	
OVER 7'-4" THRU 9'-4"	L5x5x3/8	8"	

Diagram illustrating the loose steel lintel assembly. The assembly consists of a loose steel lintel (LSL) section, shown with diagonal hatching, and a non-structural metal infill section, shown with vertical lines. The LSL section is labeled "1/2\". The infill section is labeled "NON-STRUCTURAL METAL INFILL AS REQ'D BY ARCH. COORDINATE W/ ARCH". The entire assembly is shown resting on a "STUD OR MASONRY WALL".

NOTES:

1. USE THIS SCHEDULE UNLESS LINTEL SIZE NOTED OTHERWISE ON DRAWINGS OR DETAILS.
2. GALVANIZED ALL LINTELS EXPOSED TO EXTERIOR CONDITIONS.

3 LOOSE LINTEL SCHEDULE

NOT TO SCALE

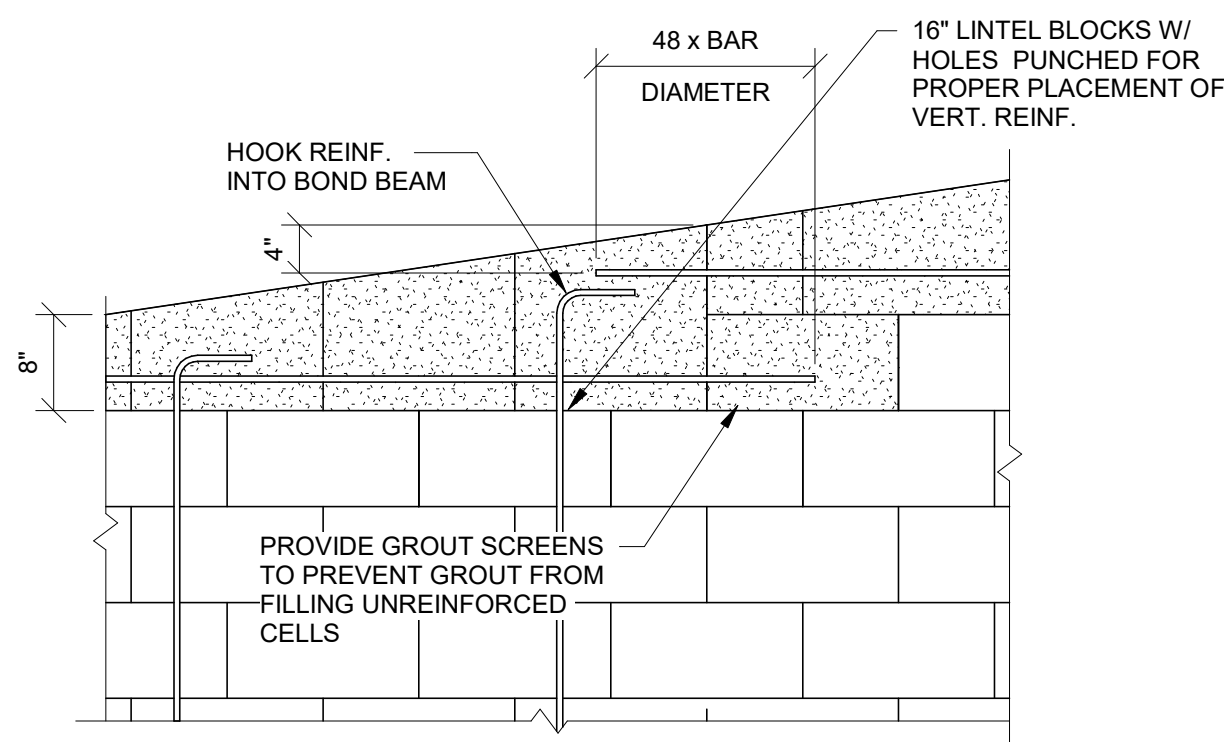
MASONRY LINTEL SCHEDULE (ML)			
CLEAR CMU OPENING NOT TO EXCEED	NOMINAL DEPTH	REINFORCEMENT	SHEAR REINF
4'-0"	8"	2-#4	NA
6'-8"	16"	2-#5 T&B	NA
8'-0"	16"	2-#5 T&B	NA
10'-0"	16"	2-#5 T&B	#3 @ 32" OC
12'-0"	24"	2-#6 T&B	#3 @ 24" OC
14'-0"	32"	2-#6 T&B	#3 @ 16" OC

NOTES:

1. FOR SPANS 8'-0" AND LESS PROVIDE MINIMUM 8" BEARING. FOR SPANS GREATER THAN 8'-0" PROVIDE 16" BEARING @ JAMBS.
2. EXTEND BOTTOM REINF TO END OF BEARING EACH SIDE. TERMINATE TOP REINF W/ STD HOOK @ CONTROL JOINTS OR FREE EDGES.
3. PROVIDE SOLID GROUTED OR SOLID MASONRY JAMBS UNDER LINTEL EACH SIDE OF OPENING.
4. SPECIAL INSPECTION IS REQUIRED.
5. CONTROL OR EXPANSION JOINTS SHALL NOT BE PLACED @ BEARING POINTS OR WITHIN THE LINTEL.

6 MASONRY LINTEL SCHEDULE

NOT TO SCALE



9 TYP. SLOPING BOND BEAM

NOT TO SCALE

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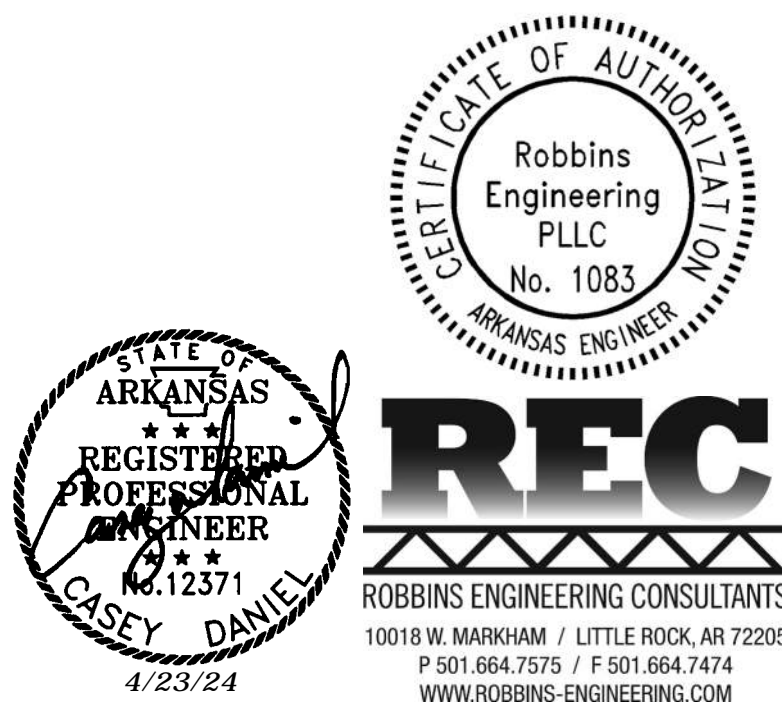
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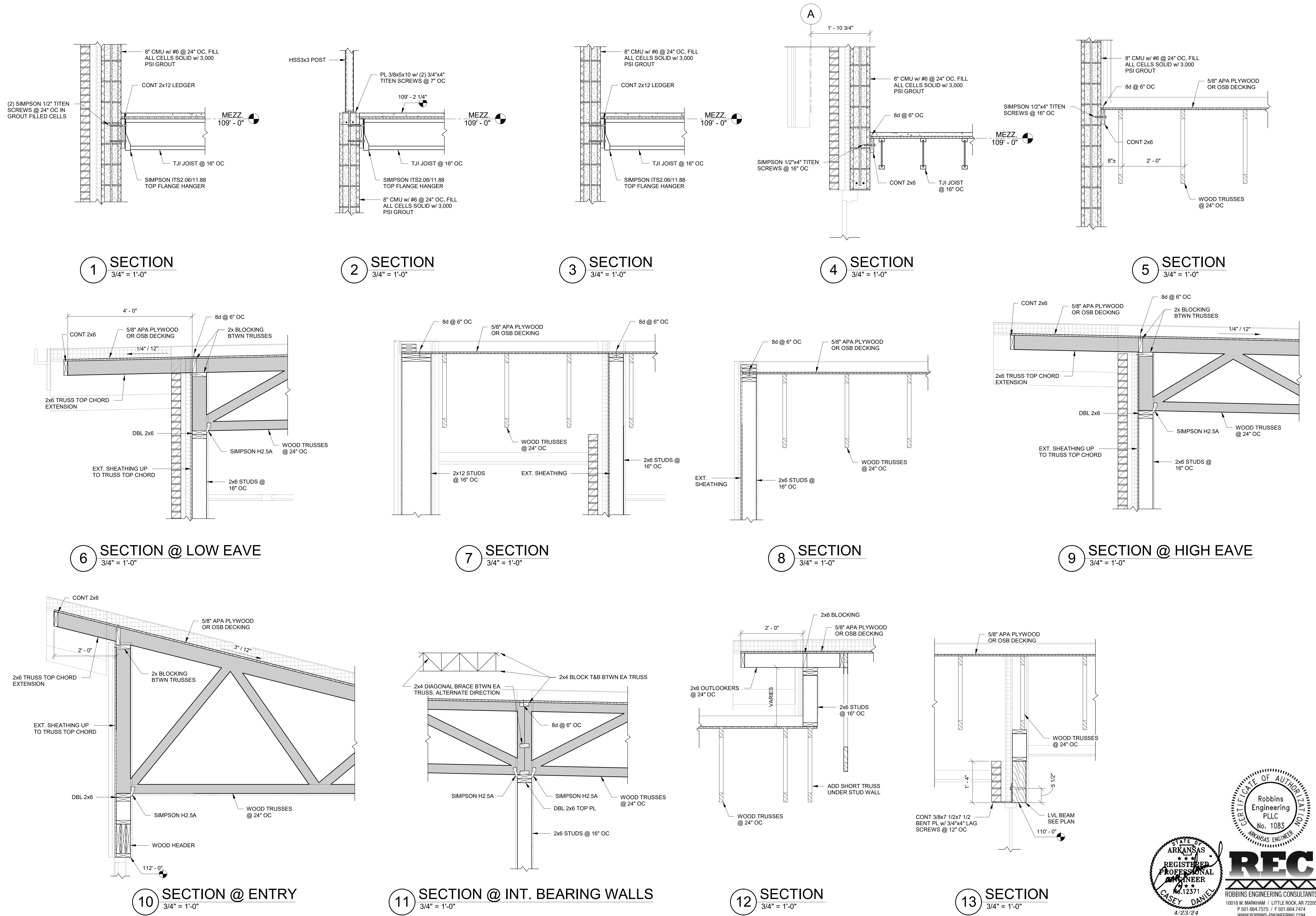
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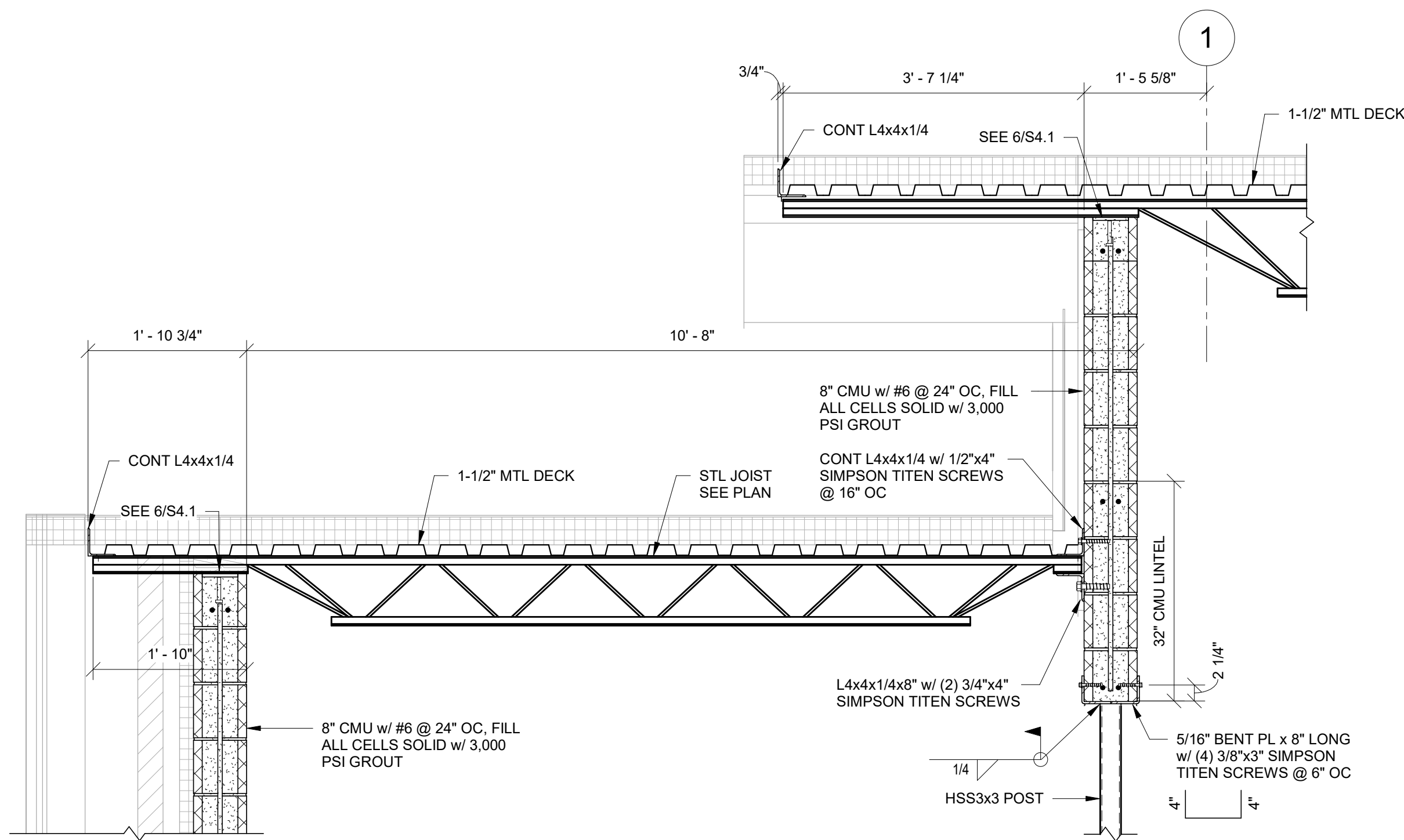
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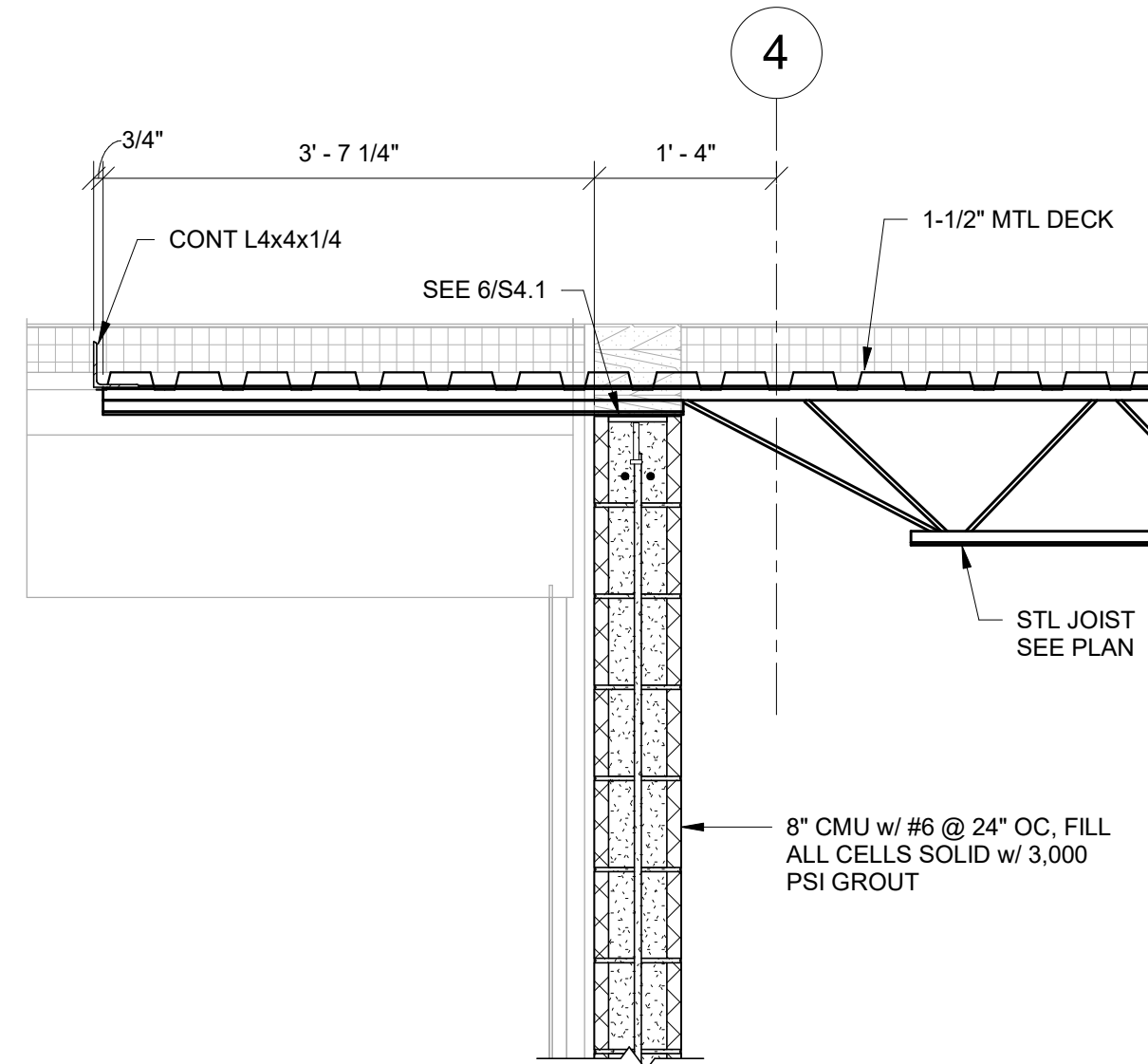
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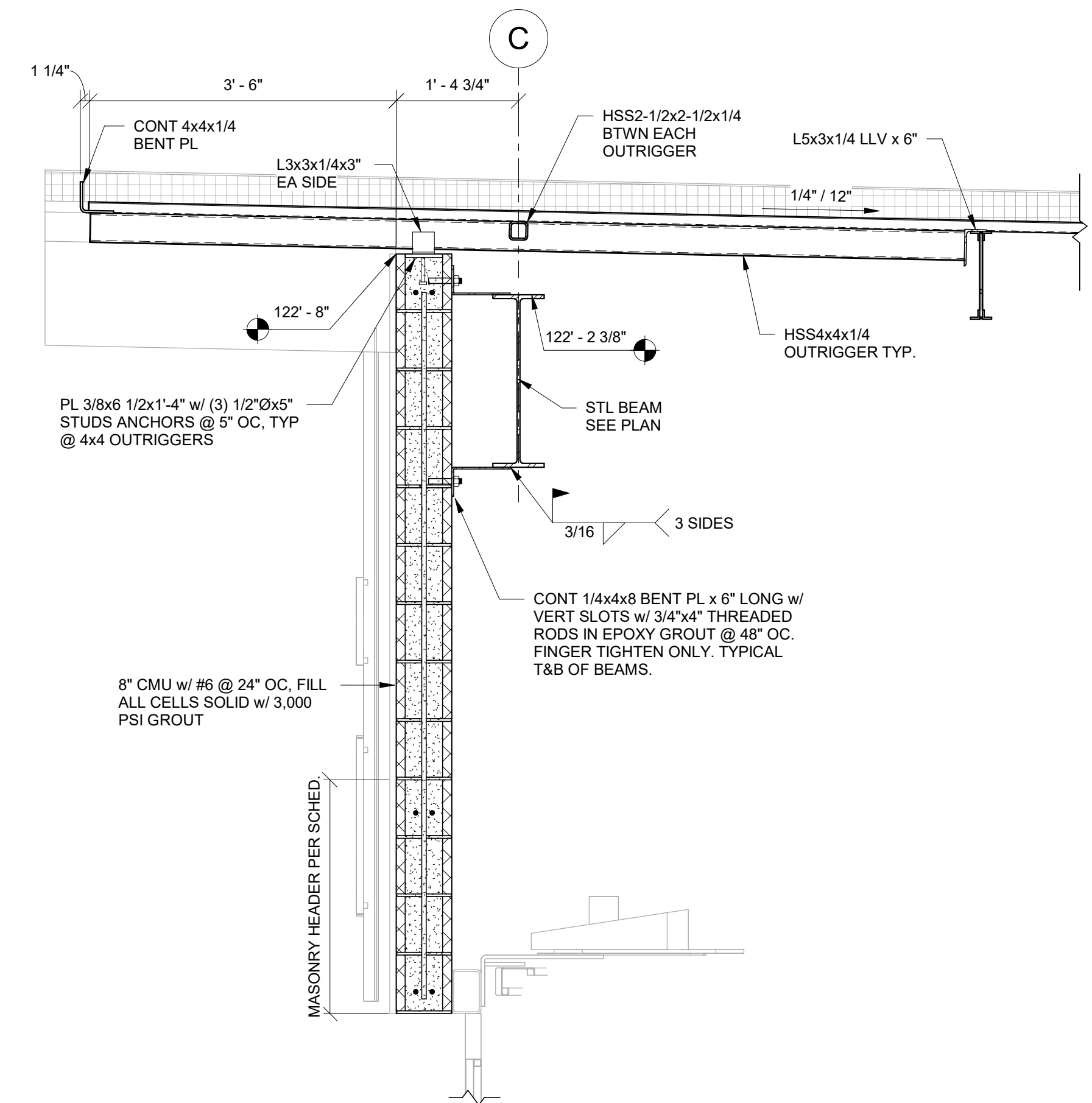




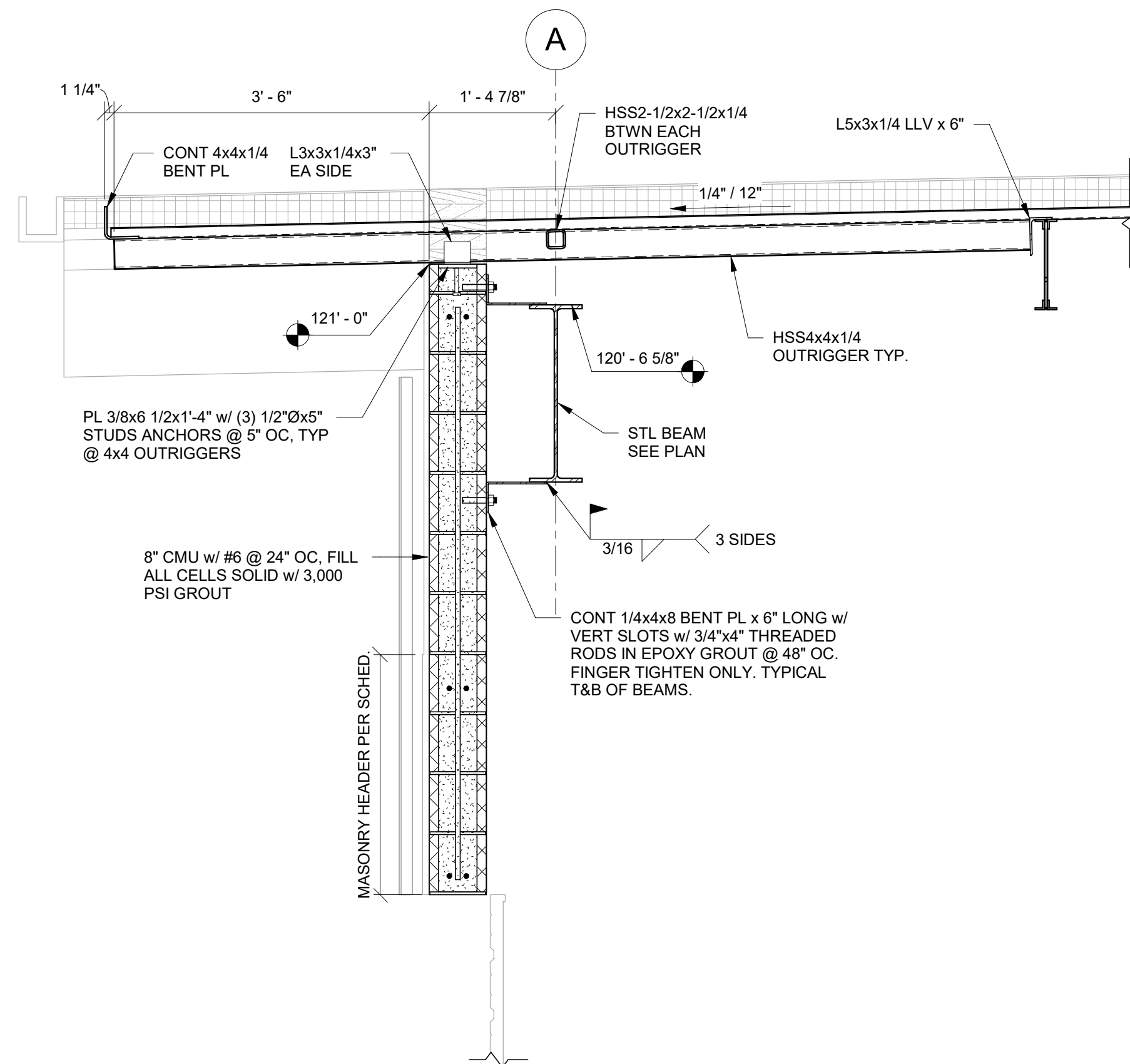
1 SECTION
3/4" = 1'-0"



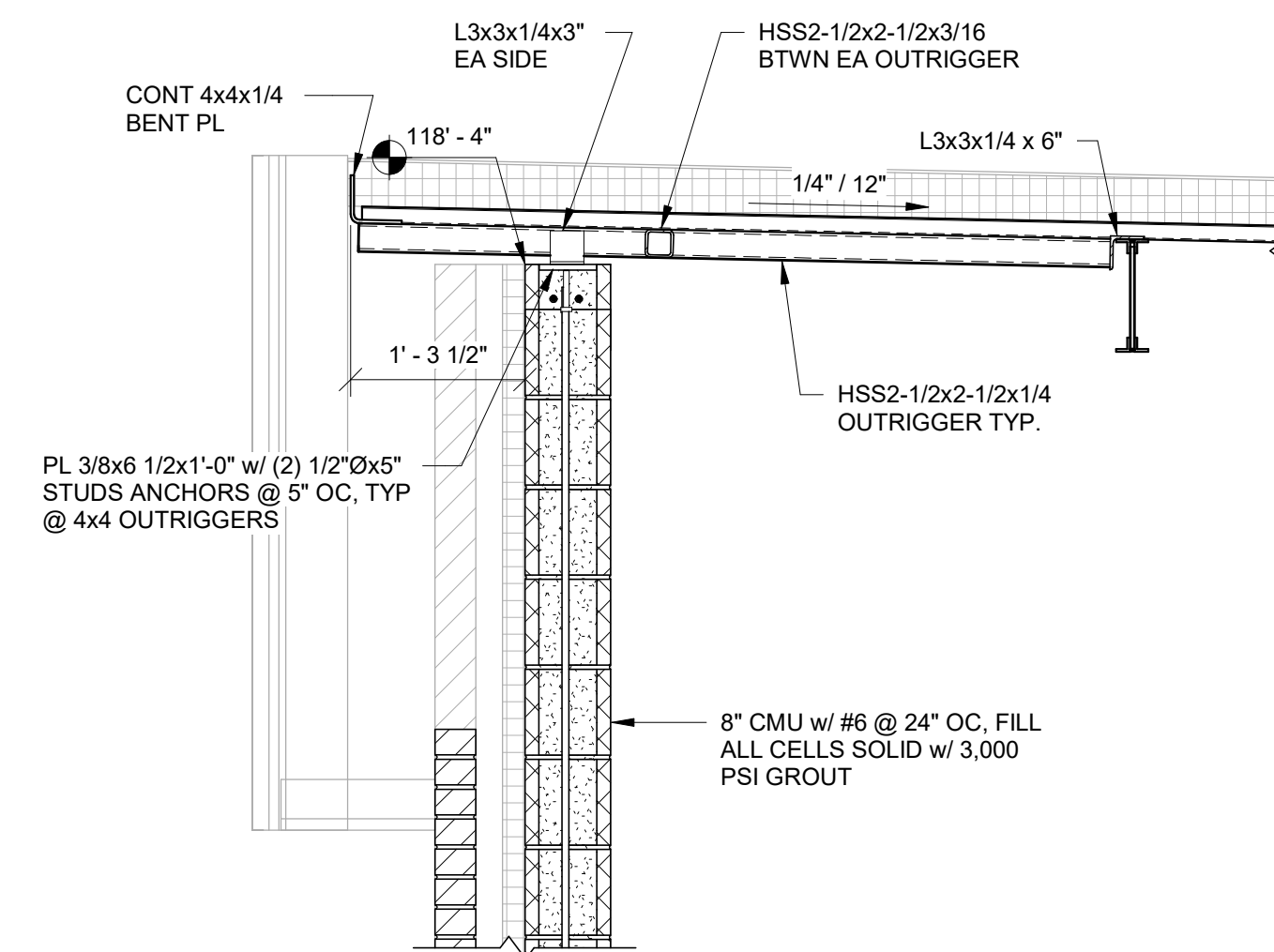
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3/4" = 1'-0"



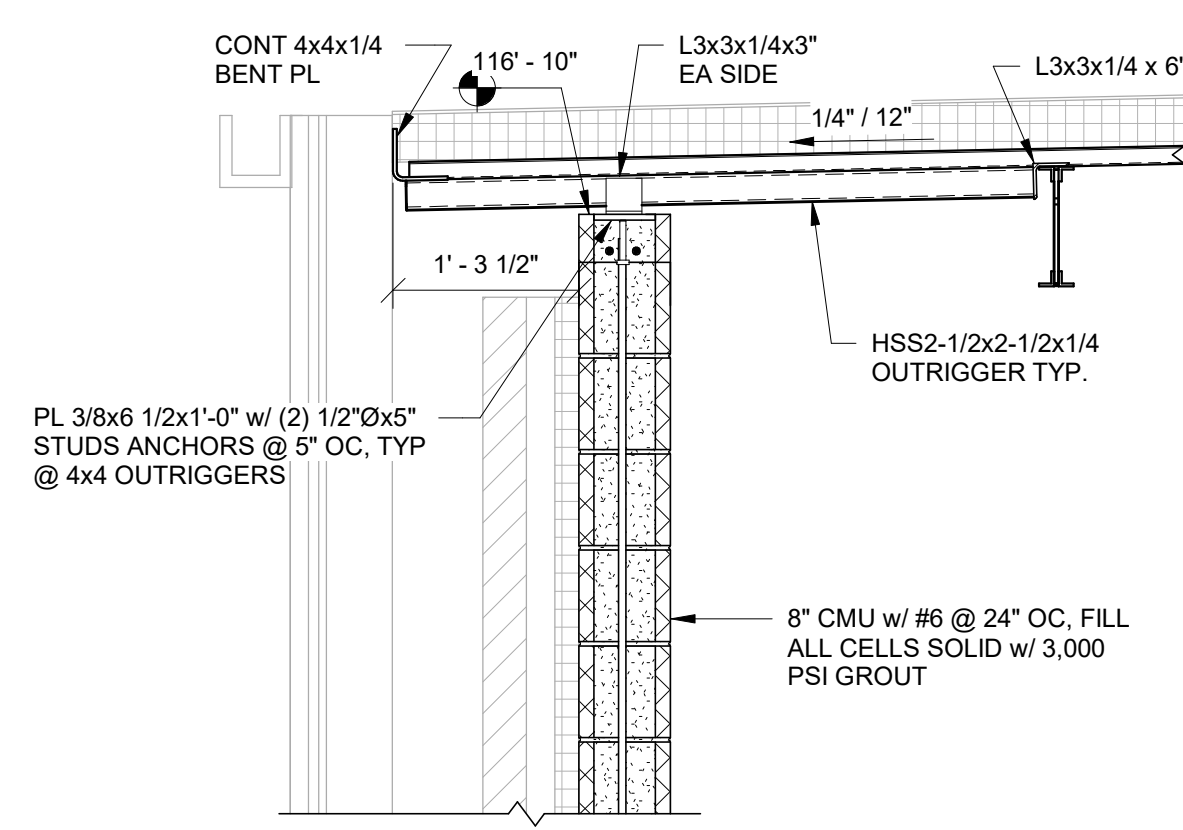
3 SECTION
3/4" = 1'-0"



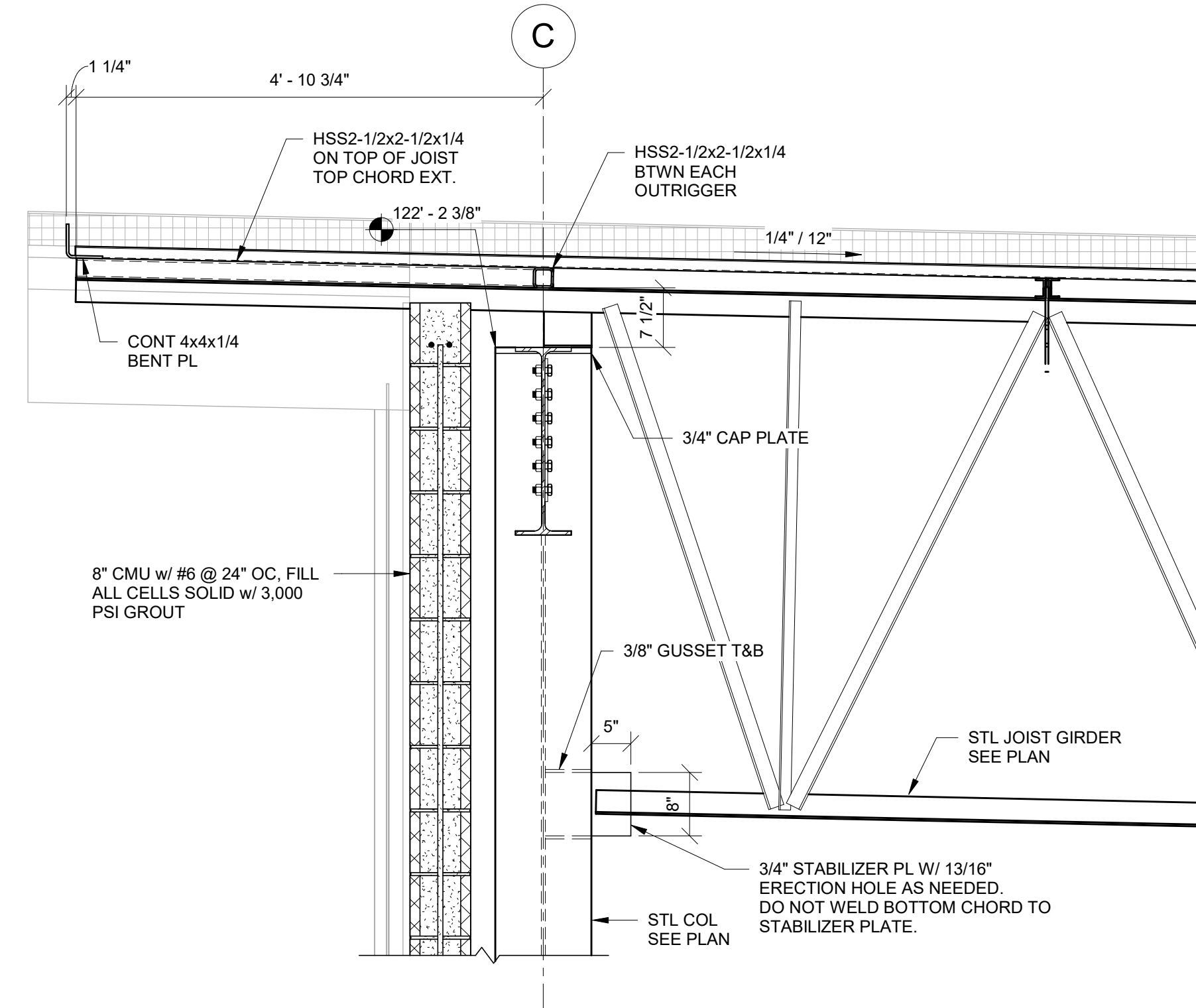
4 SECTION
3/4" = 1'-0"



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



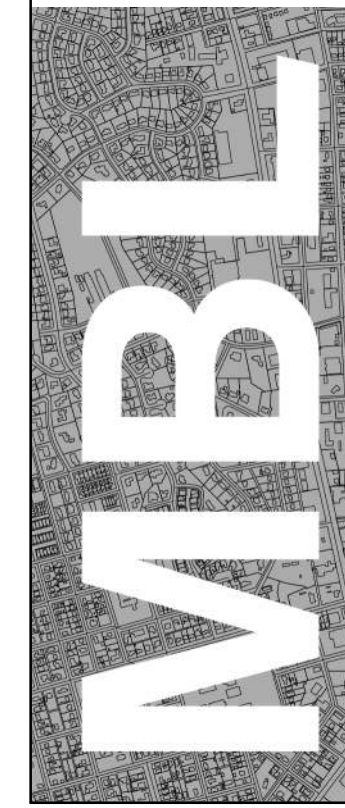
6 SECTION
3/4" = 1'-0"



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



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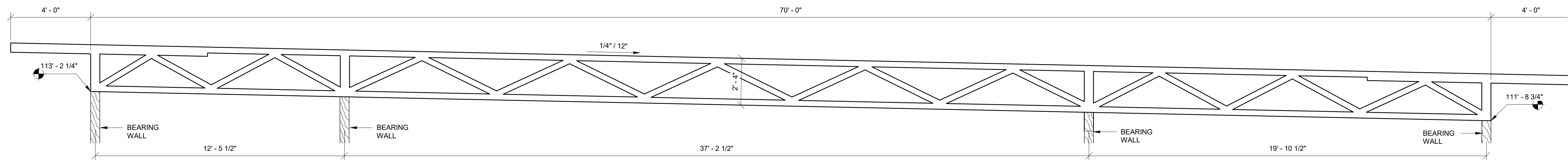
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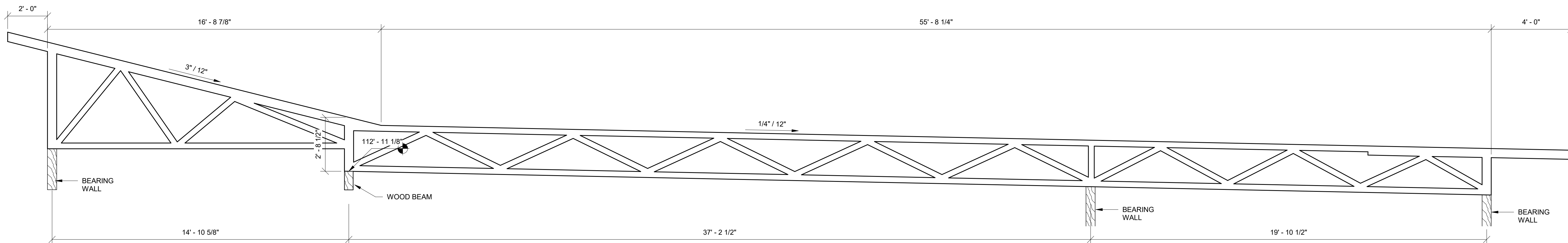
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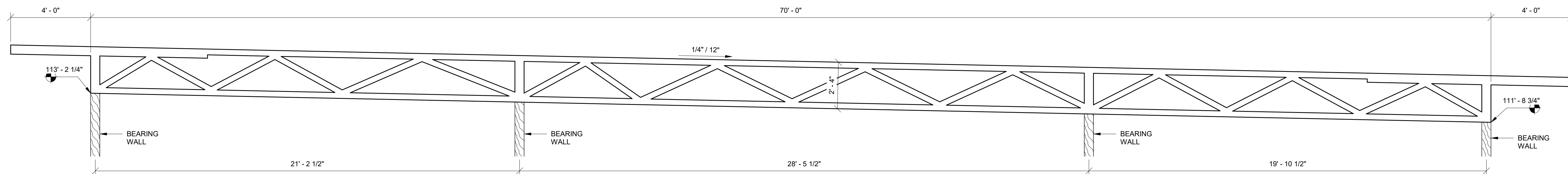
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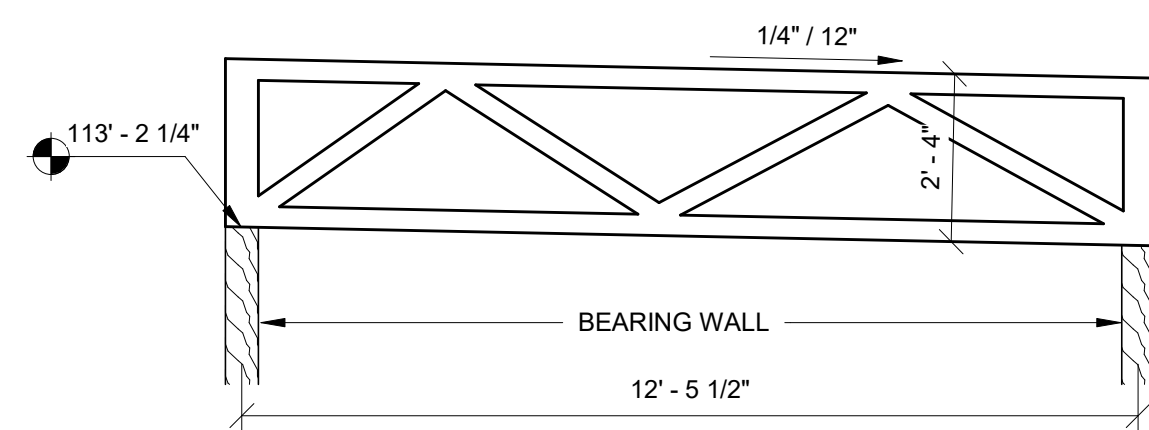
1 TRUSS "T1" PROFILE
3/8" = 1'-0"



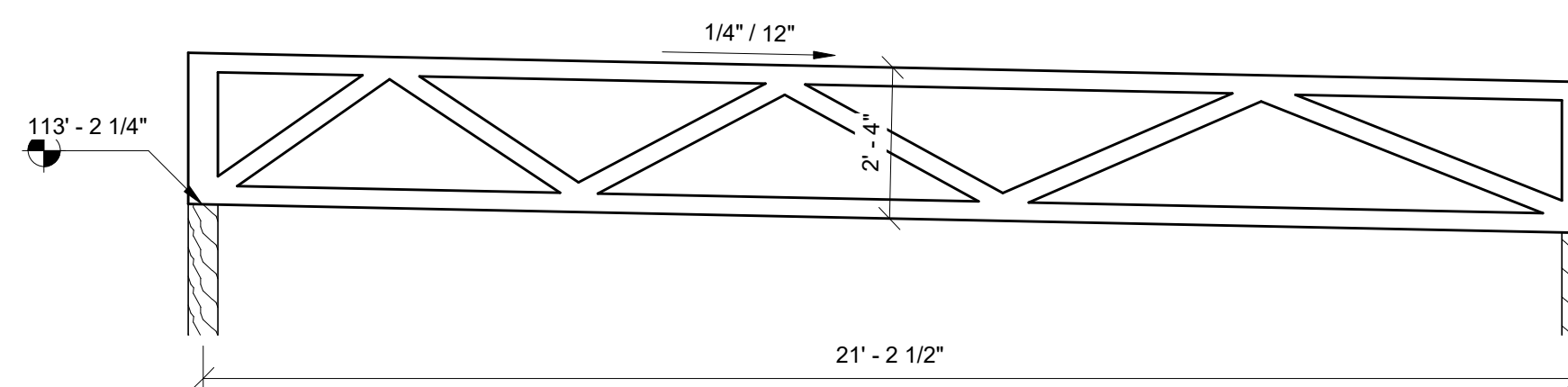
2 TRUSS "T2" PROFILE
3/8" = 1'-0"



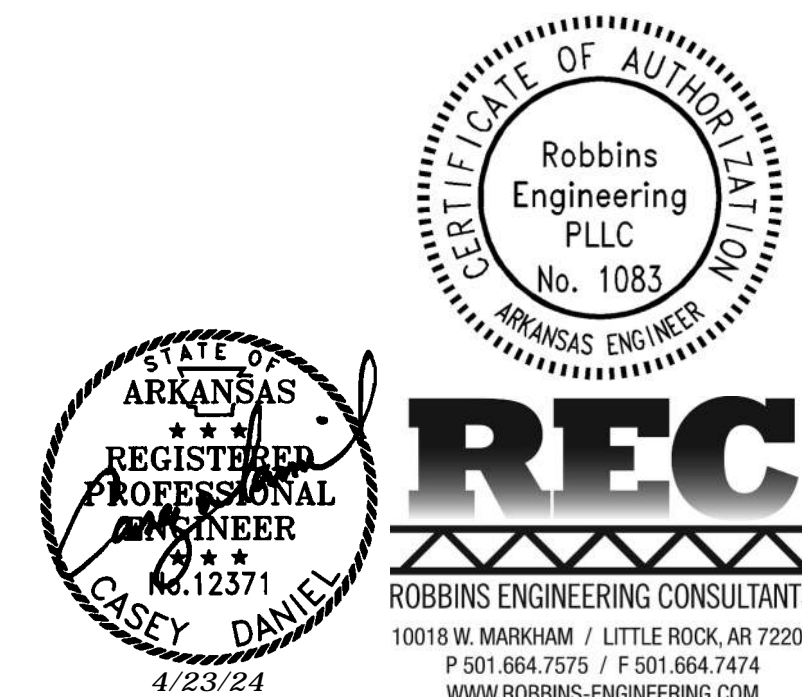
3 TRUSS "T3" PROFILE
3/8" = 1'-0"



4 TRUSS "T4" PROFILE
3/8" = 1'-0"



5 TRUSS "T5" PROFILE
3/8" = 1'-0"



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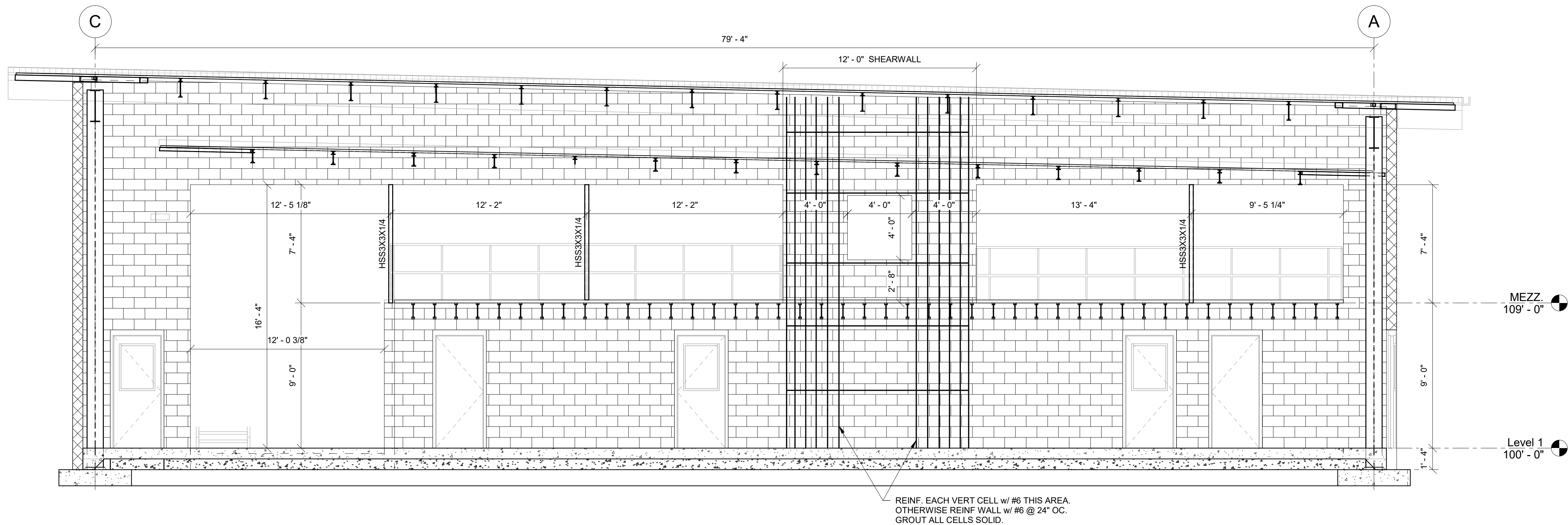


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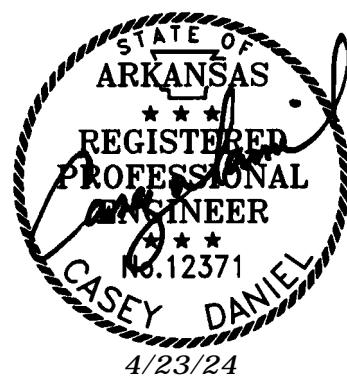
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1 WALL ELEVATION
1/4" = 1'-0"



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CMU WALL
ELEVATION

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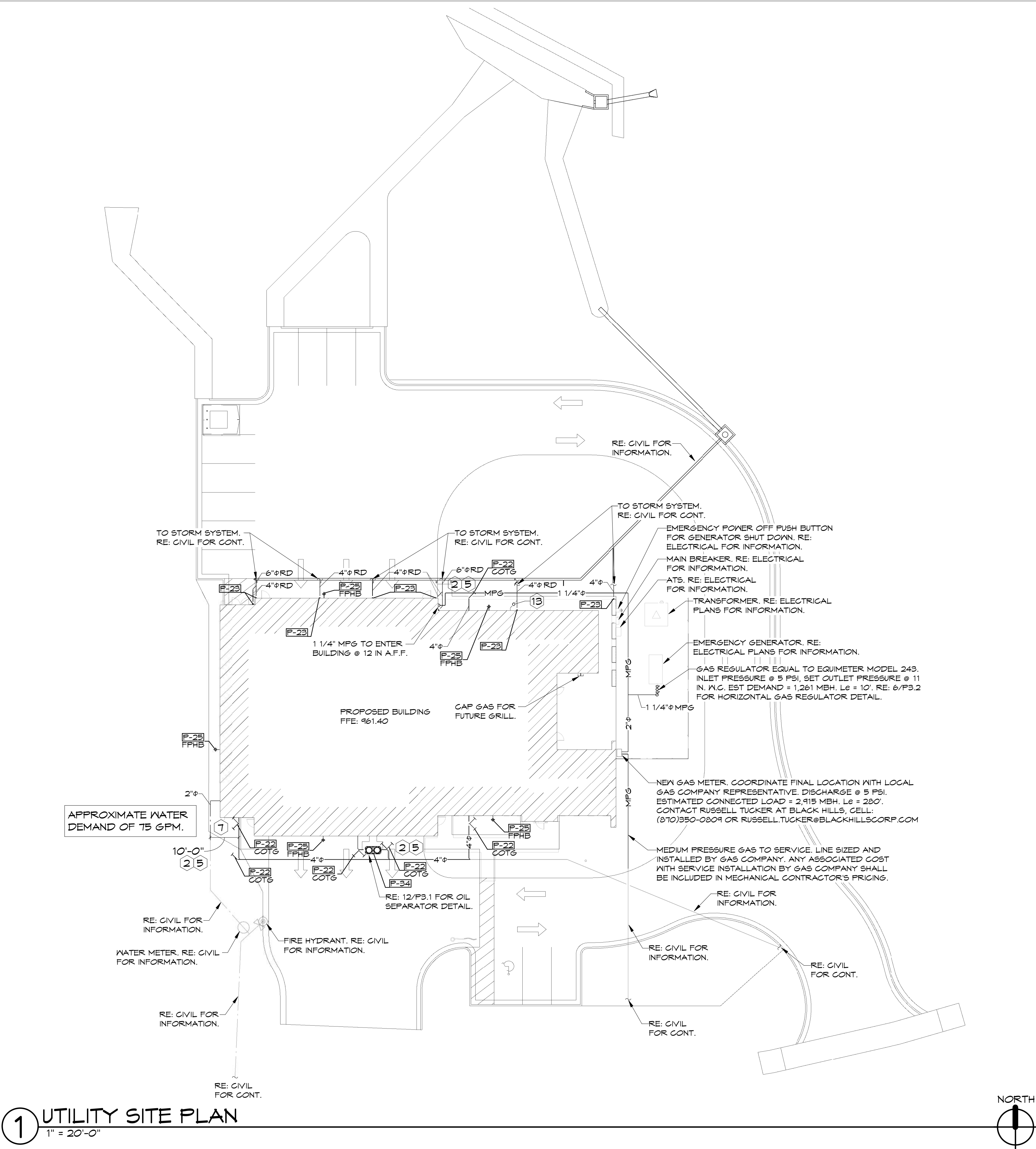
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1 UTILITY SITE PLAN
1" = 20'-0"

NOTES:
REFER TO SHEET U2.1 FOR UTILITY SITE PLAN.
REFER TO SHEET P1.1 FOR PLUMBING NOTES & LEGEND.
REFER TO SHEETS P2.1 THRU P2.1B FOR PLUMBING PLANS.
REFER TO SHEETS P3.1 THRU P3.3 FOR PLUMBING DETAILS.
REFER TO SHEETS P4.1 THRU P4.3 FOR PLUMBING RISERS.
REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.

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**SITE UTILITY
PLAN**

SHEET
U2.1

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GENERAL PLUMBING NOTES

1. ALL PLUMBING MATERIALS AND INSTALLATION SHALL COMPLY WITH THE ARKANSAS STATE PLUMBING CODE, LATEST EDITION.
2. INSTALL ALL DOMESTIC HOT AND COLD WATER PIPING AS PER STATE AND LOCAL CODES.
3. INSULATE ABOVE GRADE CONCEALED DOMESTIC HOT AND COLD WATER LINES PER SPECIFICATIONS, SECTION 22 01 19.
4. PROVIDE MAIN DOMESTIC COLD WATER LINE BUILDING SHUT OFF VALVE AT ENTRY INTO THE BUILDING. INSTALL IN FREEZE PROOF VAULT WITH ACCESS COVER.
5. INSTALL DEEP SEAL TRAPS AT ALL DRAIN CONNECTIONS.
6. COORDINATE UNDER SLAB PIPING WITH COLUMNS AND FOOTINGS. REFER TO STRUCTURAL DRAWINGS.
7. MINIMUM DEPTH OF COVER FOR WATER LINES IS 30 IN.
8. BURY YELLOW #10 THIN COPPER TRACER WIRE IN TRENCH WITH ALL UNDER GROUND PLASTIC SERVICES. LEAVE ENDS EXPOSED FOR FUTURE LOCATION.
9. PROVIDE AND INSTALL 6 IN. DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS.
10. PROVIDE GAS MAIN BUILDING SHUT OFF VALVE NEAR ENTRY TO THE BUILDING.
11. ALL GAS PIPING SYSTEMS WITHIN A BUILDING AND OTHER ABOVE GROUND GAS PIPING SHALL BE ELECTRICALLY CONTINUOUS AND BONDED TO A GROUNDED ELECTRODE AS DEFINED IN N.F.P.A. 70.
12. VERIFY LOCATION AND SIZE OF EXISTING SITE UTILITIES WITH UTILITY AUTHORITIES PRIOR TO CONSTRUCTION.
13. ALL IMPROVEMENTS (PAVEMENTS, CURB AND GUTTER, SOD, ETC.) SHALL BE REPLACED BY GENERAL CONTRACTOR TO PRECONSTRUCTION CONDITION.
14. WHERE FIRE RATED PARTITIONS OR FLOORS OCCUR, ALL FLOOR TO FLOOR AND ROOM TO ROOM PENETRATIONS SHALL BE PROPERLY FIRE SEALED WITH U.L. LISTED AND CLASSIFIED FIRE CAULK OR FIRE SEALED BY USING AN FIRE SEAL SLEEVE METHOD WHICH MEETS U.L. REQUIREMENTS. ALL OTHER PENETRATIONS OF RATED CHASES OR WALLS SHALL BE PROPERLY FIRE SEALED AND WHERE EXTENDING THROUGH SUCH RATED SURFACE SHALL BE A RATED FIRE STOP PENETRATION. ALL FIRE STOPPING, FIRE CAULKING AND FIRE SLEEVEING OR OTHER FIRE SEALING SHALL BE ACCEPTABLE BY THE LOCAL AUTHORITIES AND SHALL BEAR THE U.L. SEAL.
15. INSTALL DOMESTIC WATER, GAS AND COMPRESSED AIR LINES TIGHT AGAINST BUILDING STRUCTURE.
16. VERIFY LOCATION, INVERT AND SIZE OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
17. PROVIDE CITY APPROVED REDUCED PRESSURE BACKFLOW PREVENTERS ON ALL DOMESTIC SERVICE LINES CONNECTED TO ALL DEVICES, APPURTENANCES, APPLIANCES AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION, SUCH AS STERILIZATION, DISTILLATION, PROCESSING, COOLING OF FOODS OR ICE, WATER PUMPS, FILTERS, SOFTENERS, TANKS AND ALL OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER SHALL BE PROTECTED AGAINST CONTAMINATION WITH SIMILAR BACKFLOW PREVENTER.
18. CONDENSATE PIPING FROM ROOF TOP AIR CONDITIONERS SHALL BE SCHEDULE 40 P.V.C. PROVIDE CONDENSATE TRAP. ROUTE CONDENSATE LINE TO NEAREST ROOF DRAIN OR GUTTER.
19. PROVIDE ROOF PIPE BOOT WITH ULTRAPLY TPO MEMBRANE AS FLASHING AND STAINLESS STEEL CLAMPING RING FOR ALL GAS LINES PENETRATING THE ROOF.
20. ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE ARKANSAS STATE MECHANICAL CODE.
21. ALL WATER AND SEWER LINE MATERIALS AND INSTALLATION METHODS SHALL BE IN ACCORDANCE WITH THE CITY OF MOUNTAIN HOME STANDARD SPECIFICATION FOR PUBLIC WORK CONSTRUCTION AS WELL AS THE ARKANSAS STATE PLUMBING CODE.
22. HORIZONTAL BRANCHES SHALL CONNECT TO HORIZONTAL STACK OFFSETS AND TO THE BASES OF STACKS AT A POINT LOCATED NOT LESS THAN 10 PIPE DIAMETERS DOWNSTREAM FROM THE STACK.
23. CONTRACTOR SHALL PROVIDE "AS BUILT" DRAWINGS OF ALL PLUMBING AND PIPING SYSTEMS UPON COMPLETION OF THE PROJECT.
24. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE DRAWINGS, THE BUILDING SITE, AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. IF CONTRACTOR HAS QUESTIONS REGARDING ASSEMBLIES OR LAYOUTS WITH THE PROJECT HE SHALL MAKE THEM KNOWN TO THE ENGINEER IN WRITING PRIOR TO BIDDING THE PROJECT. CLAIMS MADE SUBSEQUENT TO THE BID WILL NOT BE ACCEPTED IF IT IS DETERMINED THAT PROPER FAMILIARIZATION COULD HAVE AVOIDED SUCH CLAIM.
25. MECHANICAL CONTRACTOR SHALL COORDINATE INSTALLATION PLUMBING SITE UTILITIES WITH SITE WORK OF OTHER TRADES. IN INSTANCES WHERE COORDINATION REQUIRES DEVIATION FROM PLANS MECHANICAL CONTRACTOR SHALL NOTIFY ENGINEER OF PROPOSED CHANGES.
26. COMPLY WITH STATE OF ARKANSAS ADOPTED ADA ACCESSIBLE GUIDELINES IN REGARD TO ACCESSIBLE FEATURES.
27. PROVIDE DRIP PAN FOR ENTIRE LENGTH OF PIPE WHERE PIPE MUST BE INSTALLED ABOVE ELECTRICAL EQUIPMENT.
28. DO NOT ROUTE GROUPS OF CONDUIT, PIPES, AND SLEEVES ABOVE FOOTINGS UNLESS NOTED TO DO SO. IF CONFLICT OCCURS, CONSULT ARCHITECT/ENGINEER.
29. LIMIT WIDTH OF CONDUIT, PIPES AND SLEEVES NOT TO EXCEED 3 FEET IN WIDTH AS IT PASSES UNDER WALL FOOTING. AS MUCH AS POSSIBLE, ALIGN THE ITEMS PERPENDICULAR TO THE FOOTING AS IT PASSES BELOW FOOTING.
30. PROVIDE A MINIMUM SPACING OF 2 FEET BETWEEN CONDUIT OR PIPE GROUPS AS ITEMS PASS UNDER FOOTINGS.
31. DO NOT ROUTE CONDUITS, PIPE OR SLEEVES UNDER COLUMN FOOTINGS OR PAD FOOTINGS.
32. MECHANICAL CONTRACTOR MUST REVIEW ALL ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF PLUMBING FIXTURES, ROOF, OVERFLOW AND FLOOR DRAINS. IF PLUMBING FIXTURES OR DRAINS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS THEY MUST BE INCLUDED IN THE CONTRACT EVEN IF NOT SHOWN ON THE MECHANICAL DRAWINGS.
33. WHERE THE BUILDING SEWER IS INSTALLED WITHIN 10 FEET OF THE WATER SERVICE THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 INCHES ABOVE THE TOP OF THE HIGHEST POINT OF THE SEWER. REQUIRED SEPARATION DISTANCE SHALL NOT APPLY WHERE A WATER SERVICE PIPE CROSSES A SEWER PIPE & SLEEVED 10 FEET HORIZONTALLY FROM THE SEWER PIPE CENTERLINE ON BOTH SIDES OF SUCH PIPE CROSSINGS.
34. DO NOT SCALE DIRECTLY FROM THE PLUMBING DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.
35. ALL PLUMBING SANITARY WASTE AND VENT PIPING INSTALLED IN FIRE RATED WALLS OR PLENUM RETURN AIR SYSTEMS SHALL BE CAST IRON. REFER TO ARCHITECTURAL PLANS FOR LIFE SAFETY INFORMATION.

PLUMBING KEYED NOTES

1. INSTALL AN APPROVED TRAP GUARD PRODUCT THAT CONFORMS TO NSF-14, CSA B602-99 AND CSA B19-94.
2. COORDINATE UNDERSLAB PIPING WITH STRUCTURAL FOOTINGS. REFER TO STRUCTURAL PLANS FOR LOCATIONS AND SIZES OF FOOTINGS.
3. PROVIDE AND INSTALL 6 INCH DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS. REFER TO DETAIL 1/P3.1.
4. MECHANICAL CONTRACTOR SHALL NOT INSTALL ANY WATER LINES ABOVE ELECTRICAL PANELS. REFER TO ELECTRICAL PLANS FOR PANEL LOCATIONS.
5. IDENTIFY OUTDOOR UNDERGROUND LINES WITH CONTINUOUS STRIP OF PLASTIC UTILITY MARKER. TAPE SHOULD STATE AT REGULAR INTERVALS: "CAUTION (STATE UTILITY) PIPE BELOW". INSTALL TAPE ONE FOOT DIRECTLY ABOVE PIPE BEFORE BACKFILLING TO GRADE.
6. MECHANICAL CONTRACTOR TO PROVIDE REDUCED PRESSURE BACKFLOW PREVENTER (RPZ) AND PRESSURE REDUCING VALVE (IF REQUIRED) AT THE DOMESTIC WATER SERVICE ENTRANCE IN BUILDING. THERE SHALL BE NO WYES OR TEES PRIOR TO THE RPZ. PROVIDE MATTS MODEL LF901 OR APPROVED EQUAL RPZ. REFER TO 10/P3.1 FOR DETAIL.
7. MAINTAIN A MINIMUM OF 10 FOOT CLEARANCE BETWEEN THE NEW WATER LINES AND NEW SANITARY SEWER PIPE.
8. MECHANICAL CONTRACTOR SHALL INSTALL DUCTILE IRON SLEEVE ON NEW WATER LINES WHERE THEY CROSS ABOVE ANY SANITARY SEWER LINES. SLEEVE SHALL BE 10 FEET IN BOTH DIRECTIONS OF THE SANITARY SEWER PIPE CENTER LINE.
9. PROVIDE 12"x12" ACCESS PANEL IN CEILING.
10. PLUMBING CONTRACTOR TO PROVIDE SOLENOID VALVE FOR EMERGENCY GAS SHUT-OFF. ELECTRICAL CONTRACTOR SHALL CONNECT SOLENOID VALVE TO PUSH BUTTON.
11. RANGE SHUT OFF PUSH BUTTON FOR GAS SOLENOID VALVE. REFER TO ELECTRICAL PLANS FOR INFORMATION.COORDINATE FINAL LOCATION WITH OWNER, ARCHITECT, AND ELECTRICAL CONTRACTOR.
12. GRILL SHUT OFF PUSH BUTTON FOR GAS SOLENOID VALVE. REFER TO ELECTRICAL PLANS FOR INFORMATION. COORDINATE FINAL LOCATION WITH OWNER, ARCHITECT, AND ELECTRICAL CONTRACTOR.
13. INSTALL P.V.C RELIEF POPPER PRIOR TO CONDENSATE TIE-IN TO STORM DRAIN. RE: 9/P3.2 FOR DETAIL.
14. PROVIDE AIR HOSE REEL EQUAL TO REELCRAFT 5650 OLP PREMIUM DUTY ALL STEEL SPRING RETRACTABLE COMPACT HOSE REEL. AIR HOSE REEL TO BE MOUNTED TO COLUMN. RE: ARCHITECTURAL/STRUCTURAL PLANS FOR MOUNTING BRACKET DETAIL. COORDINATE FINAL LOCATION OF HOSE REEL WITH OWNER AND ELECTRICAL ITEMS ON COLUMN.
15. VENTLESS GAS REGULATOR EQUAL TO MAXITROL MODEL 325. INLET PRESSURE @ 5 PSI, SET OUTLET PRESSURE @ 11 IN. W.C. EST DEMAND = 125 MBH. L6 = 10'. PROVIDE VENT LIMITER.
16. VENTLESS GAS REGULATOR EQUAL TO MAXITROL MODEL 325. INLET PRESSURE @ 5 PSI, SET OUTLET PRESSURE @ 11 IN. W.C. EST DEMAND = 1,034 MBH. L6 = 75'. PROVIDE VENT LIMITER.
17. PLUMBER TO PROVIDE 120V SOLENOID VALVE. VALVE TO BE WIRED INTO FIRE ALARM SYSTEM AND FIRE CALL SYSTEM. REFER TO ELECTRICAL FOR WIRING INFORMATION.
18. PROVIDE WATER HOSE REEL EQUAL TO REELCRAFT 7850 OLP HEAVY DUTY ALL STEEL SPRING RETRACTABLE LOW PRESSURE HOSE REEL. WATER HOSE REEL TO BE MOUNTED TO COLUMN. RE: ARCHITECTURAL/STRUCTURAL PLANS FOR MOUNTING BRACKET DETAIL. COORDINATE FINAL LOCATION OF WATER HOSE REEL WITH OWNER AND ELECTRICAL ITEMS ON COLUMN.

PLUMBING LEGEND

	SANITARY WASTE PIPING
	WASTE/VENT COMBO. RE: 9/P3.1 FOR DETAIL.
	EXISTING SANITARY WASTE PIPING
	GREASE SANITARY WASTE PIPING
	VENT PIPING
	COLD WATER PIPING
	EXISTING COLD WATER PIPING
	HOT WATER PIPING
	HOT WATER RETURN PIPING
	MEDIUM PRESSURE GAS PIPING (5 PSI@)
	LOW PRESSURE GAS PIPING (11 IN. W.C.)
	EXISTING LOW PRESSURE GAS PIPING
	COMPRESSED AIR PIPING
	CONDENSATE DRAIN PIPING
	ROOF DRAIN PIPING
	FIRE LINE
	FIRE DEPARTMENT CONNECTION
	BALL VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	GAS REGULATOR EQUAL TO EQUI-METER 243
	GAS BALL VALVE
	CONNECTION POINT
	WATER HAMMER ARRESTOR (SIZE PER MANUFACTURER'S RECOMMENDED FIXTURE UNIT CAPACITY)
	FIRE HYDRANT
	GAS SHUT OFF PUSH BUTTON
	REFER TO KEYED NOTES
	PLUMBING FIXTURE NUMBER (REFER TO PLUMBING FIXTURE SCHEDULE)
	CLEAN OUT TO GRADE
	FLOOR DRAIN
	FLOOR SINK
	FREEZE PROOF HOSE BIB
	HOSE BIB
	ACCESSIBLE
	HUB DRAIN
	WALL CLEAN OUT
	WATER HEATER
	SANITARY SEWER
	ROOF DRAIN



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LEGEND**

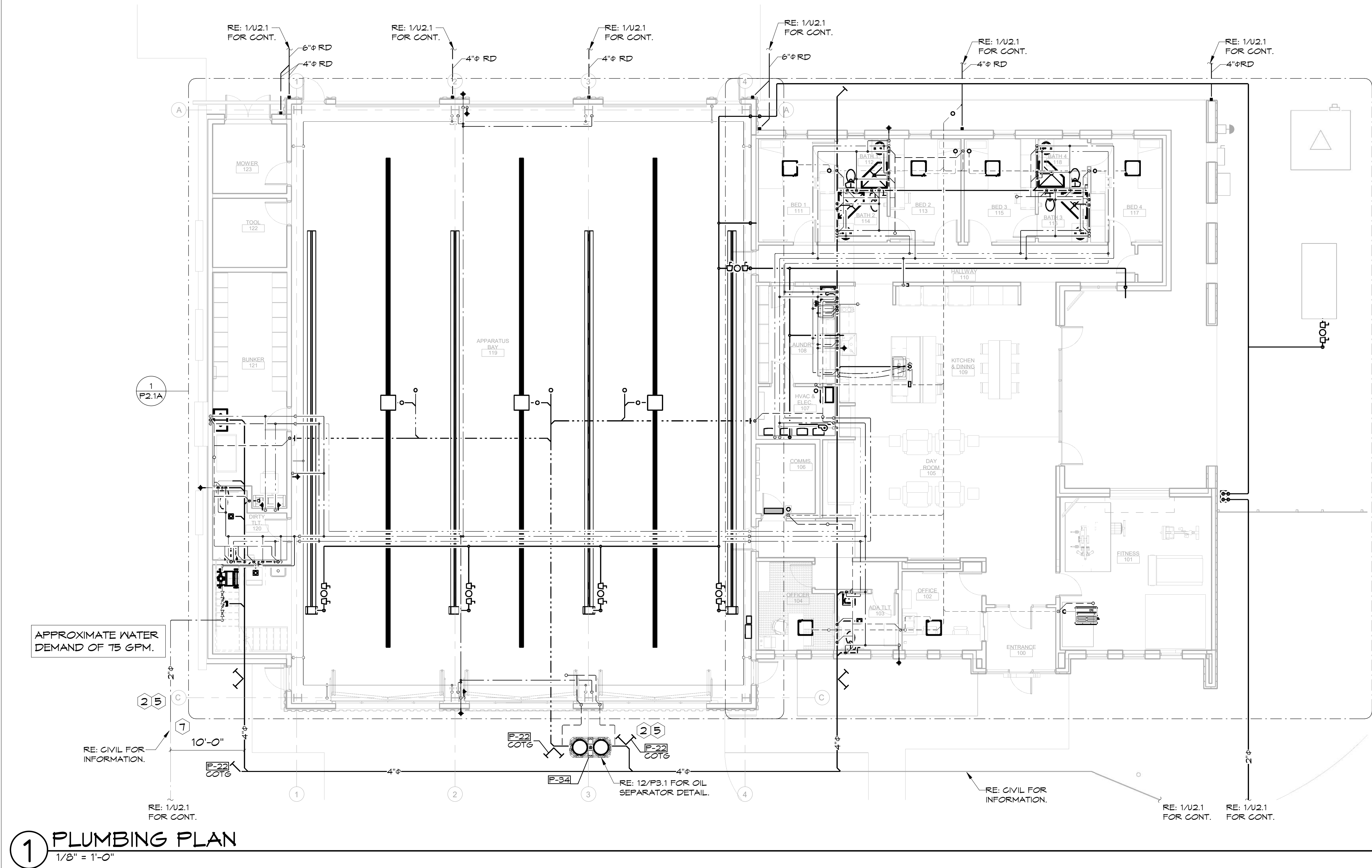
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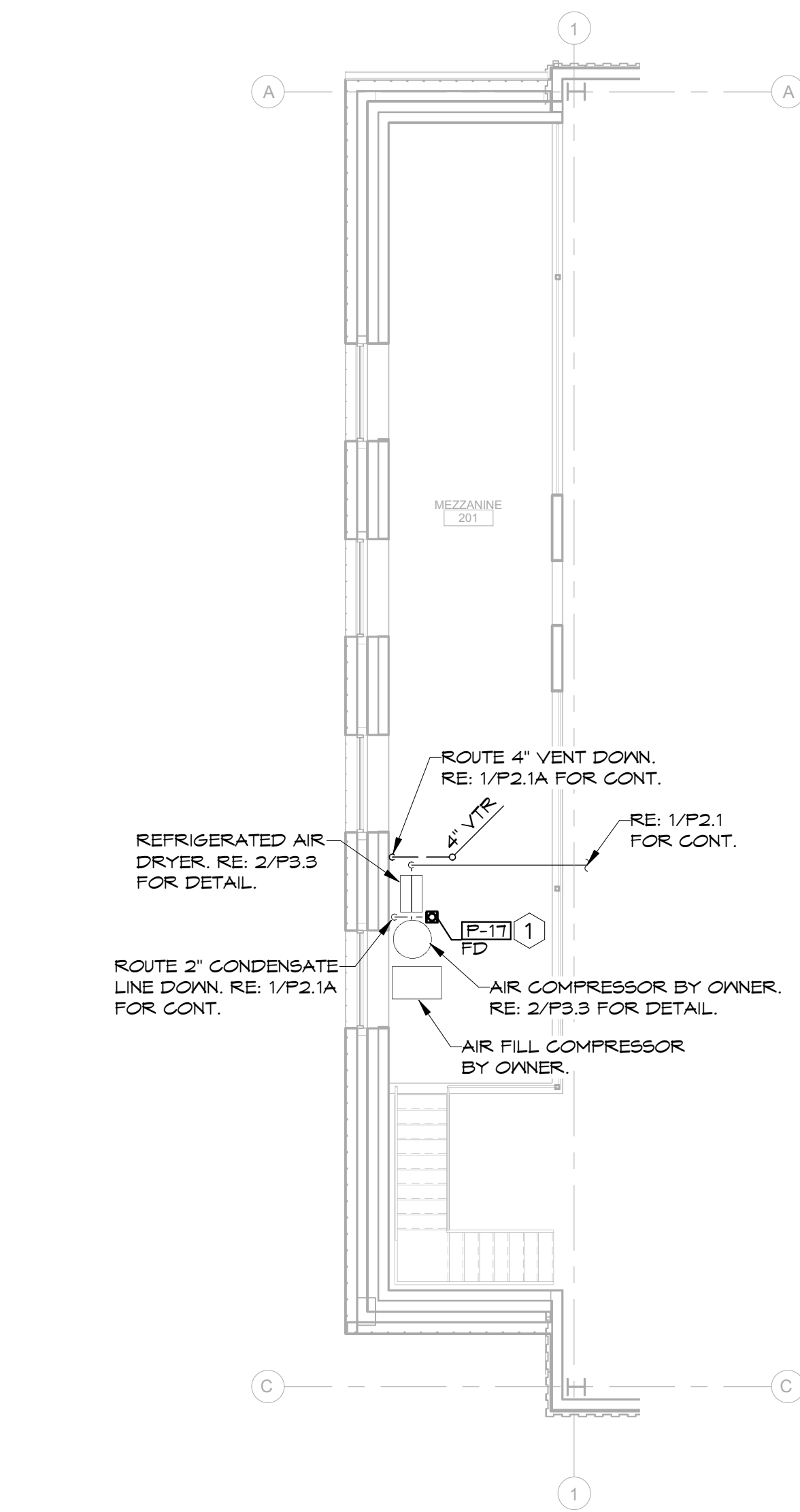
NOTES:
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REFER TO SHEET P1.1 FOR PLUMBING NOTES & LEGEND.
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REFER TO SHEETS P3.1 THRU P3.3 FOR PLUMBING DETAILS.
REFER TO SHEETS P4.1 THRU P4.3 FOR PLUMBING RISERS.
REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.



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



2 PLUMBING MEZZANINE PLAN
1/8" = 1'-0"

NOTES:
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REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.




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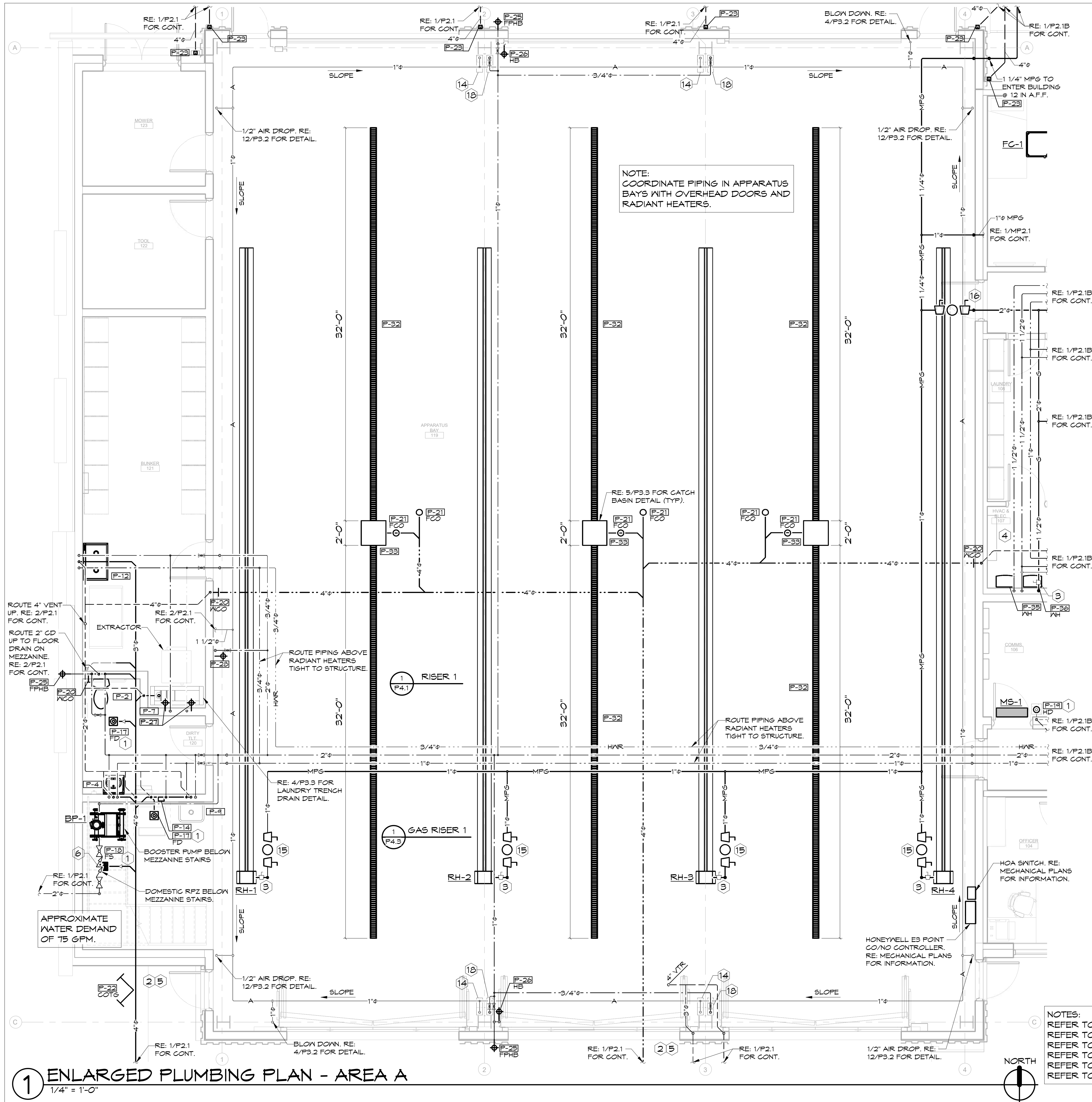
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P2.1

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1 ENLARGED PLUMBING PLAN - AREA A
1/4" = 1'-0"

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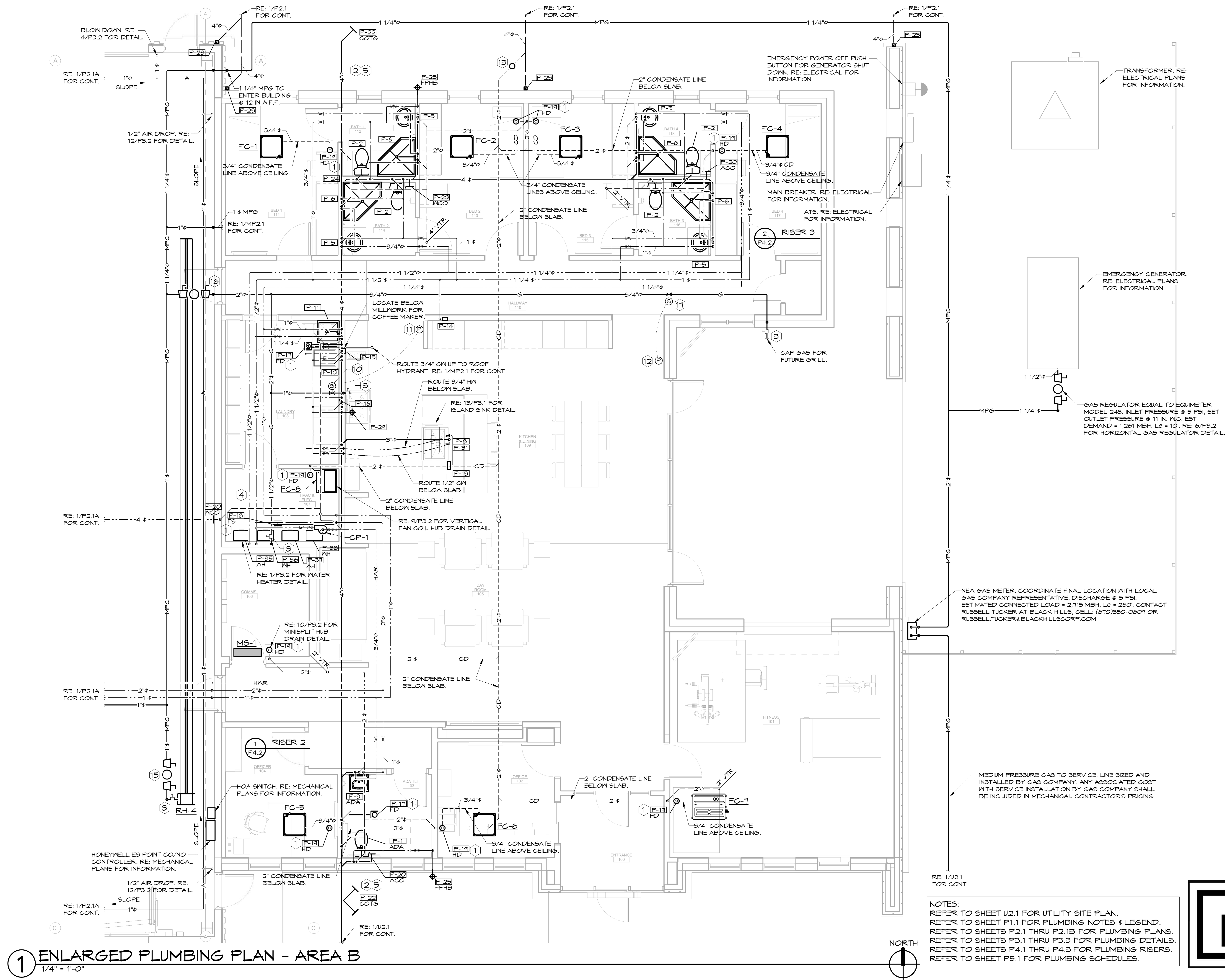
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1 ENLARGED PLUMBING PLAN - AREA B
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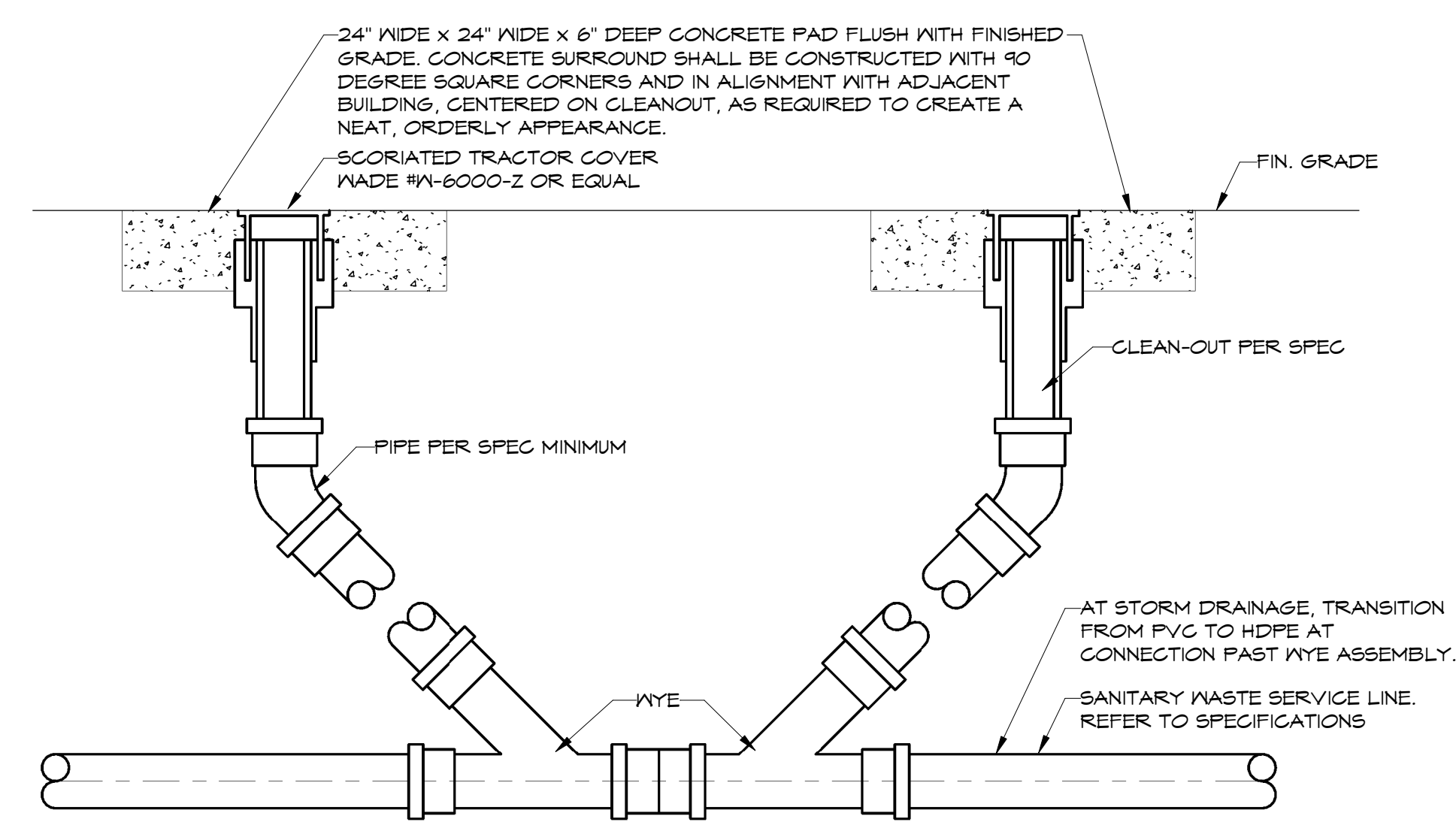
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- AREA B**

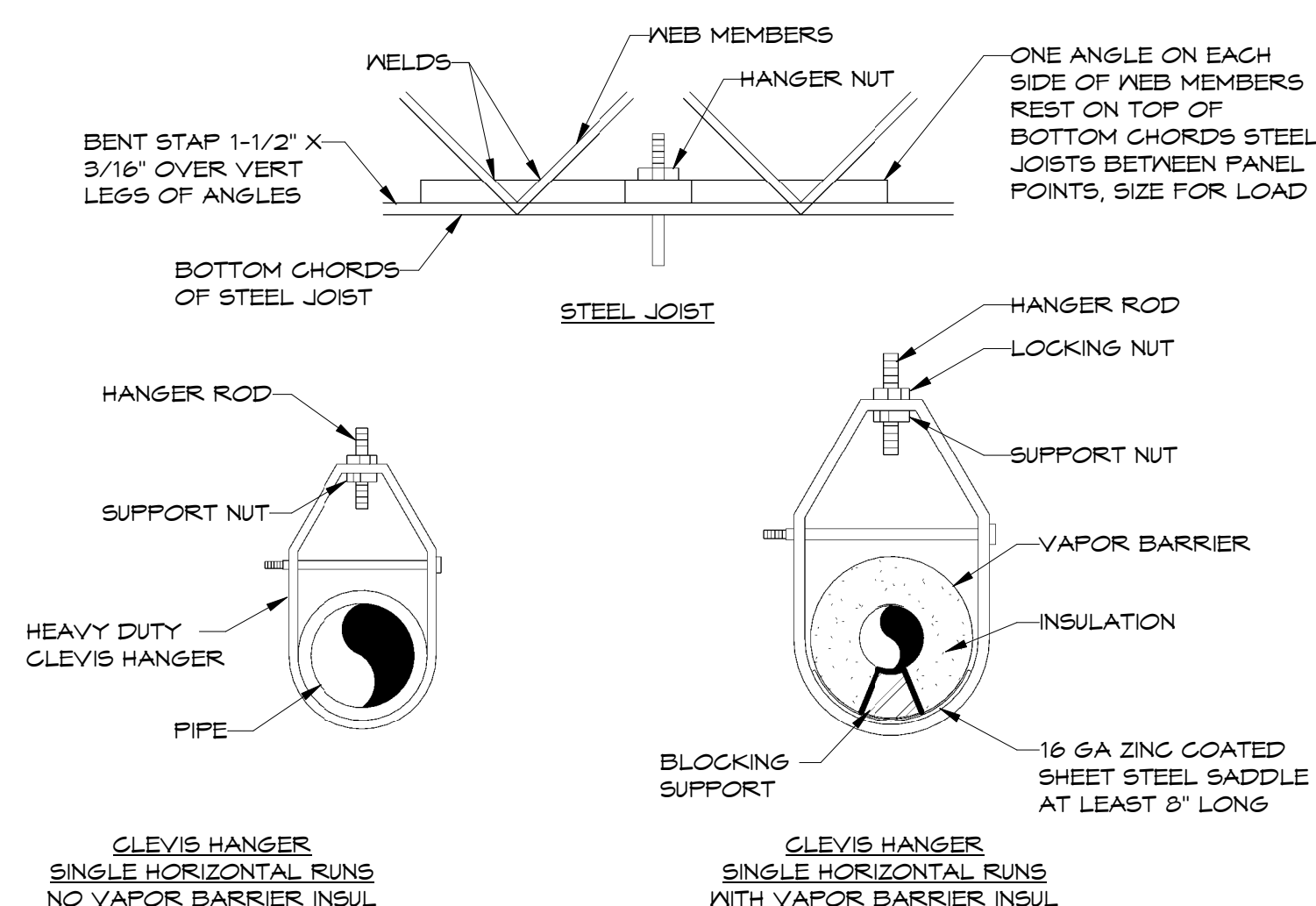
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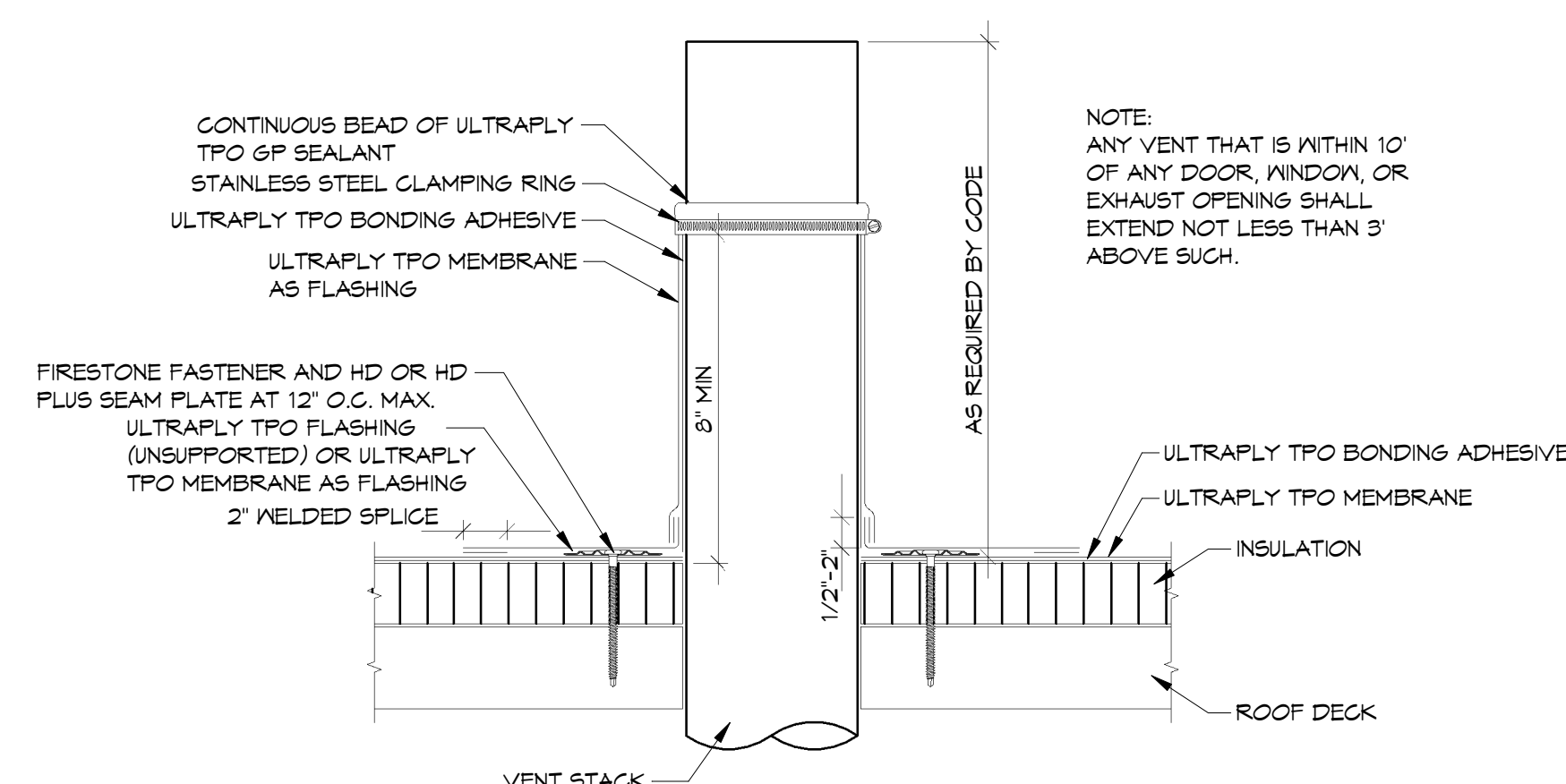


1 DOUBLE CLEAN OUT TO GRADE
NTS

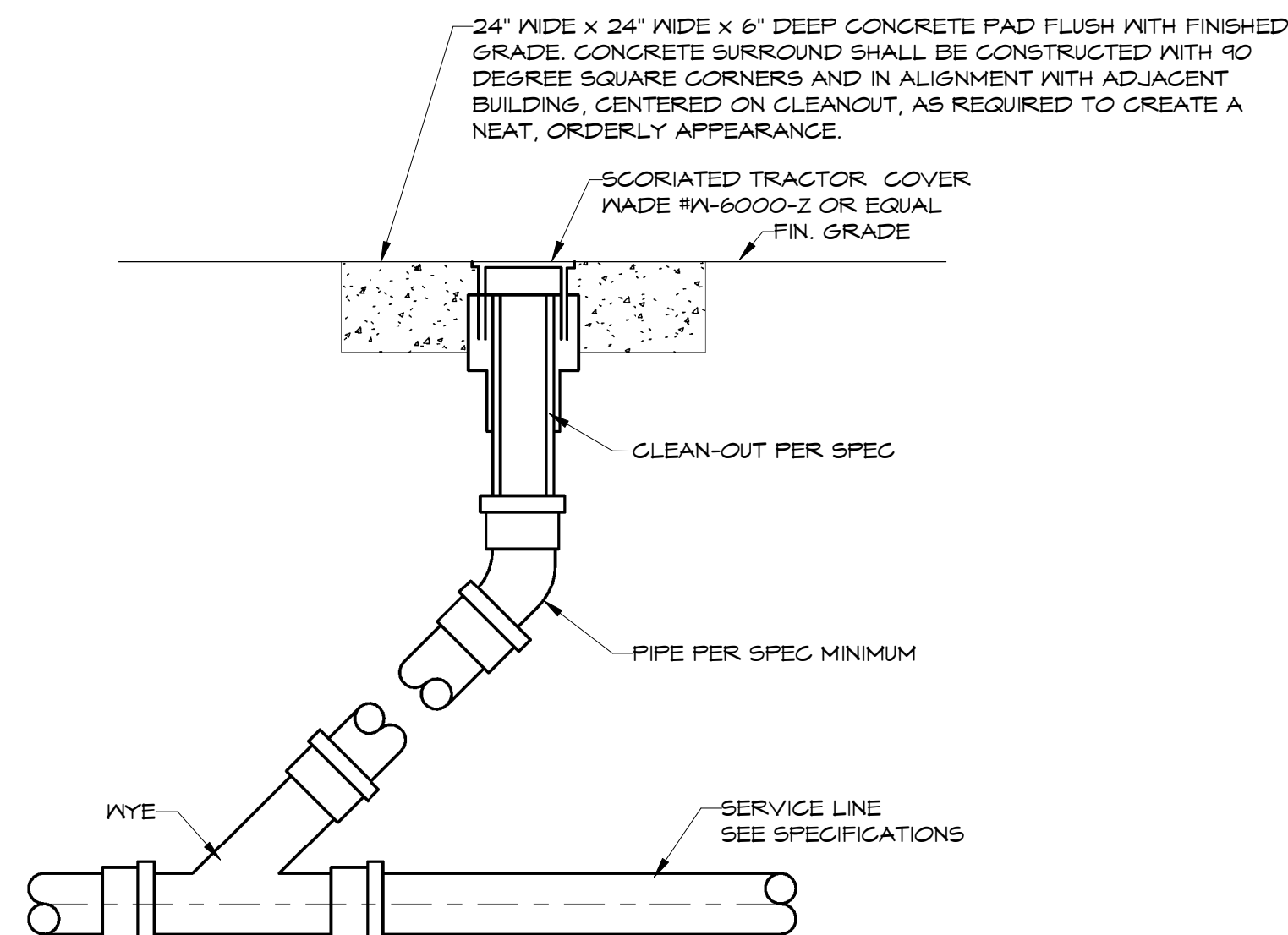
HANGER ROD SCHEDULE			
PIPE SIZE	ROD SIZE	PIPE SIZE	ROD SIZE
UP TO 2"	1/4" DIA	8" THRU 12"	1/2" DIA
2 1/2" UP TO 6"	3/8" DIA		



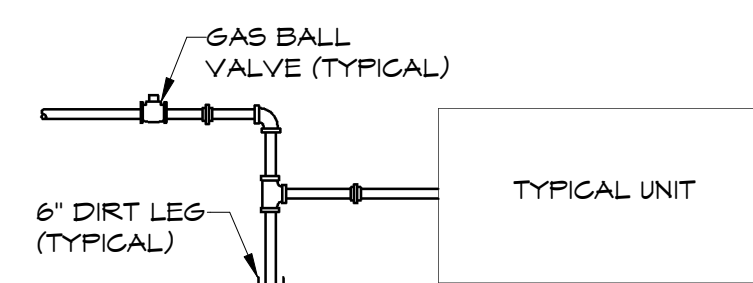
6 TYPICAL PIPE HANGER DETAIL-CLEVIS HANGER
NTS



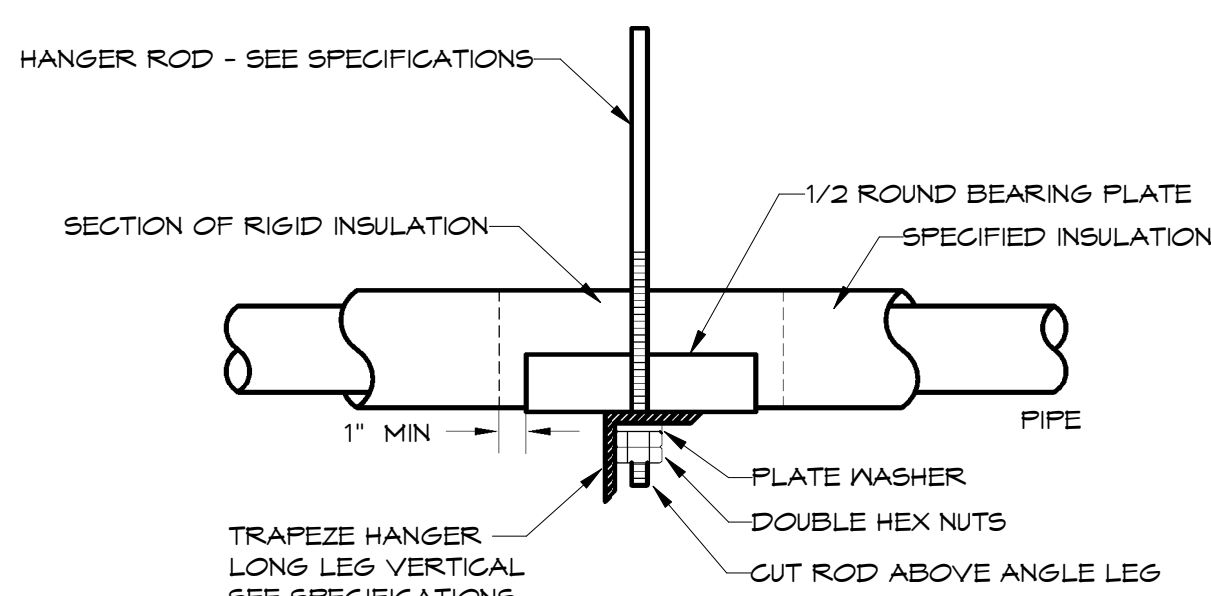
11 VENT THRU ROOF DETAIL
NTS



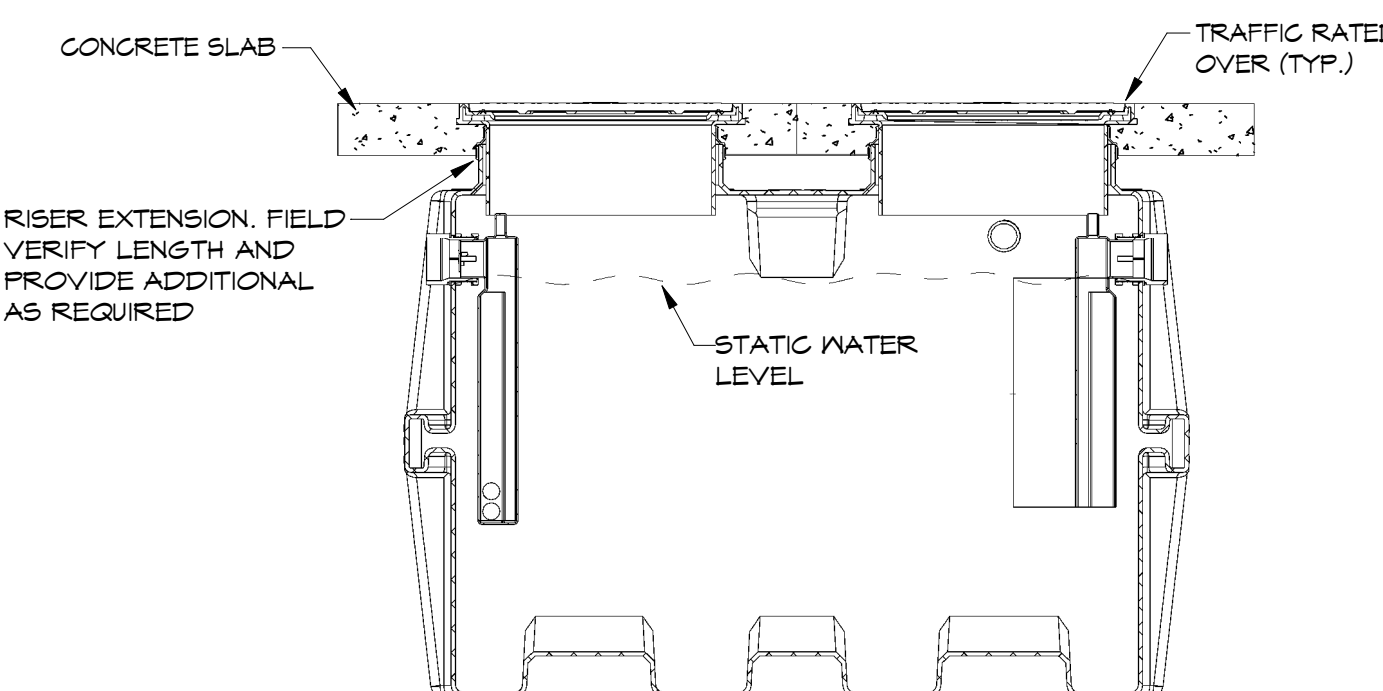
2 CLEAN OUT TO GRADE DETAIL
NTS



7 TYPICAL GAS CONNECTION
NTS

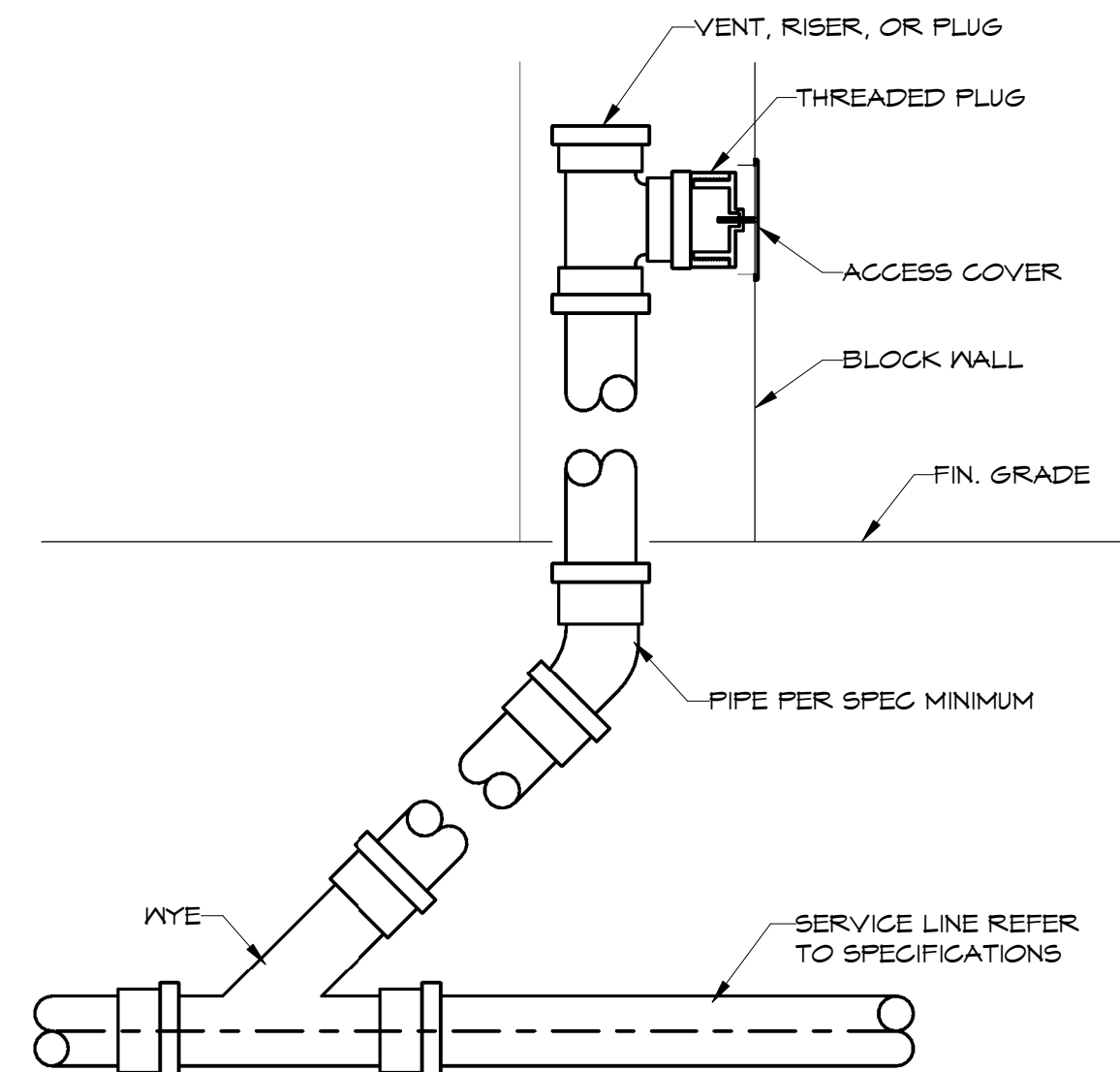


8 TYPICAL PIPE HANGER DETAIL-TRAPEZE
NTS

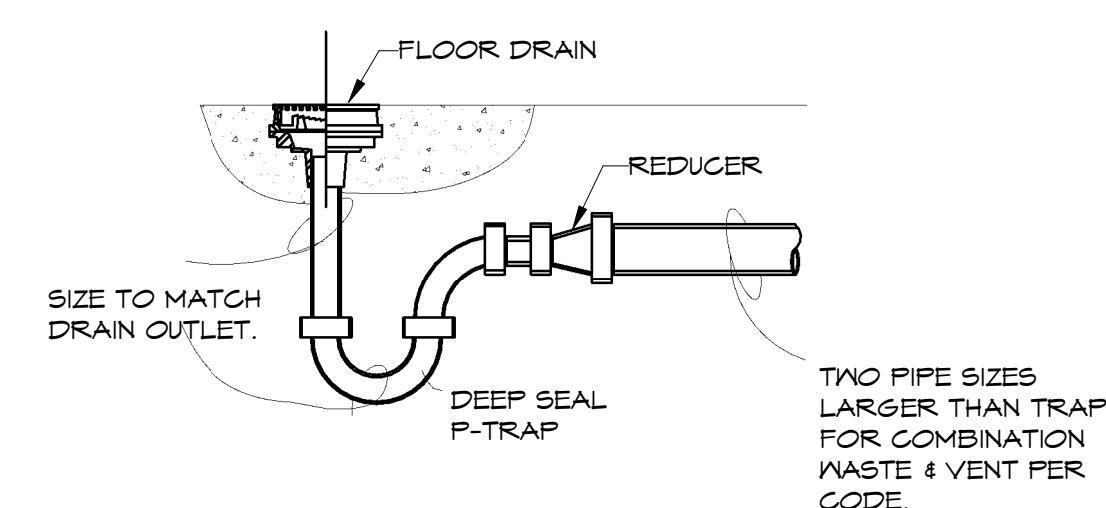


- NOTES:
1. FILL TANK WITH WATER BEFORE BACKFILLING TO PREVENT FLOAT OUT DURING PIPING INSULATION.
 2. BACKFILL USING CRUSHED AGGREGATE MATERIAL, APPROXIMATELY 3/4\"/>

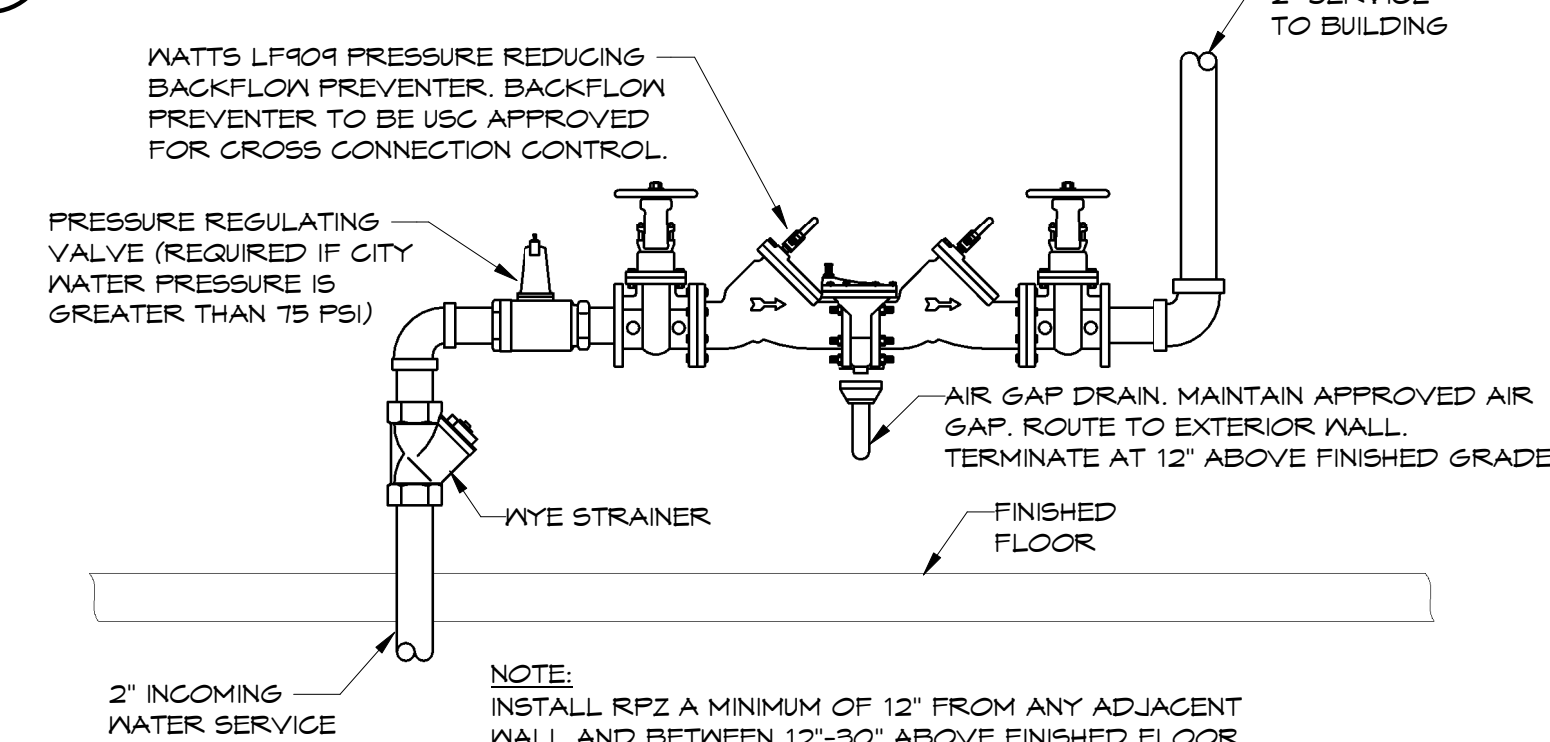
12 OIL SEPARATOR DETAIL
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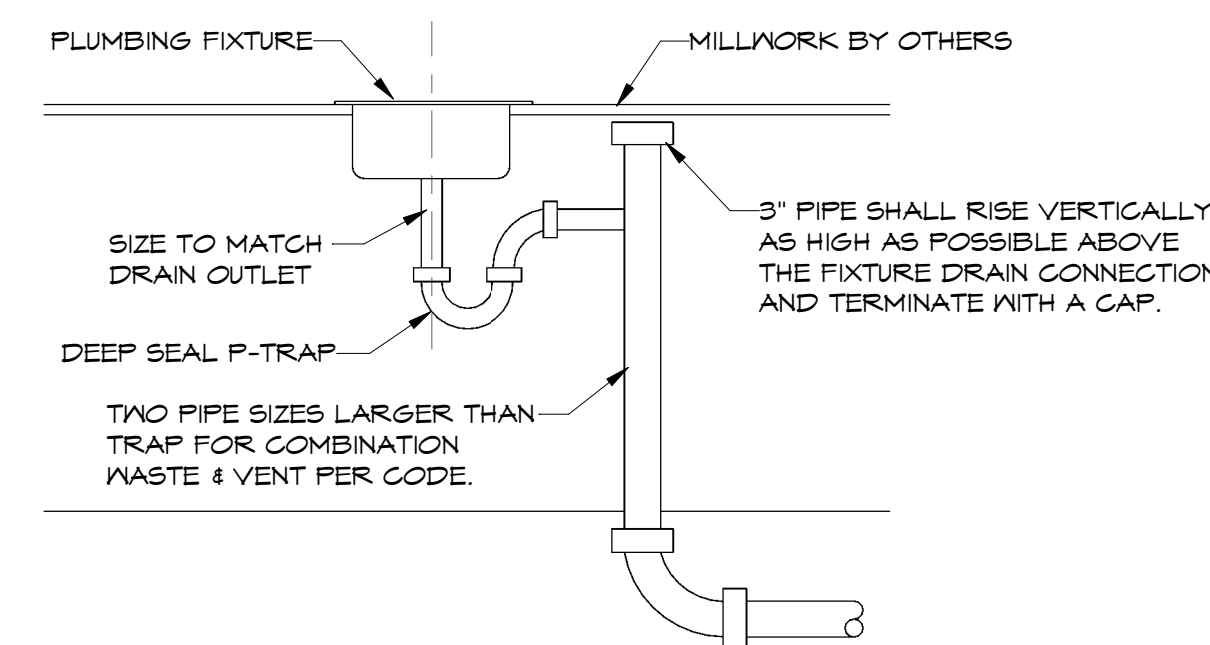
3 WALL CLEAN OUT DETAIL
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9 WASTE/VENT COMBO DETAIL
NTS

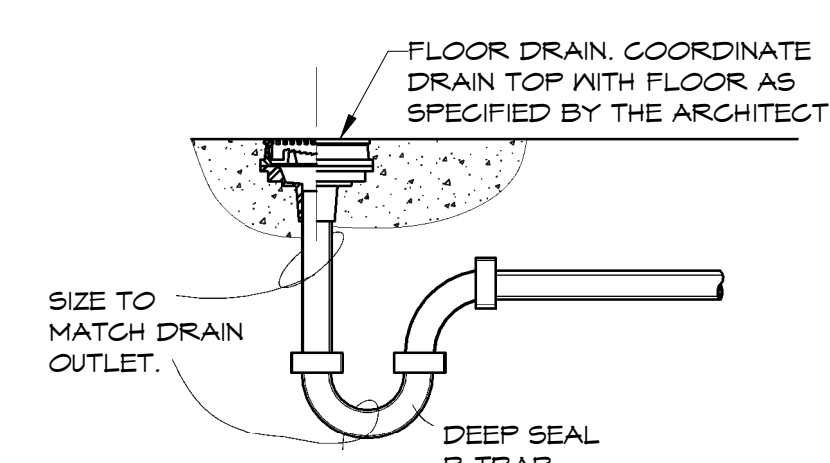


10 DOMESTIC WATER RPZ DETAIL
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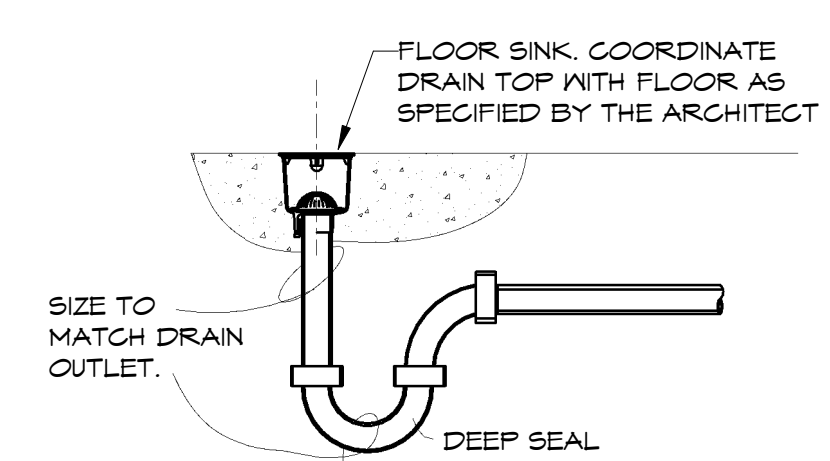


13 ISLAND SINK DETAIL
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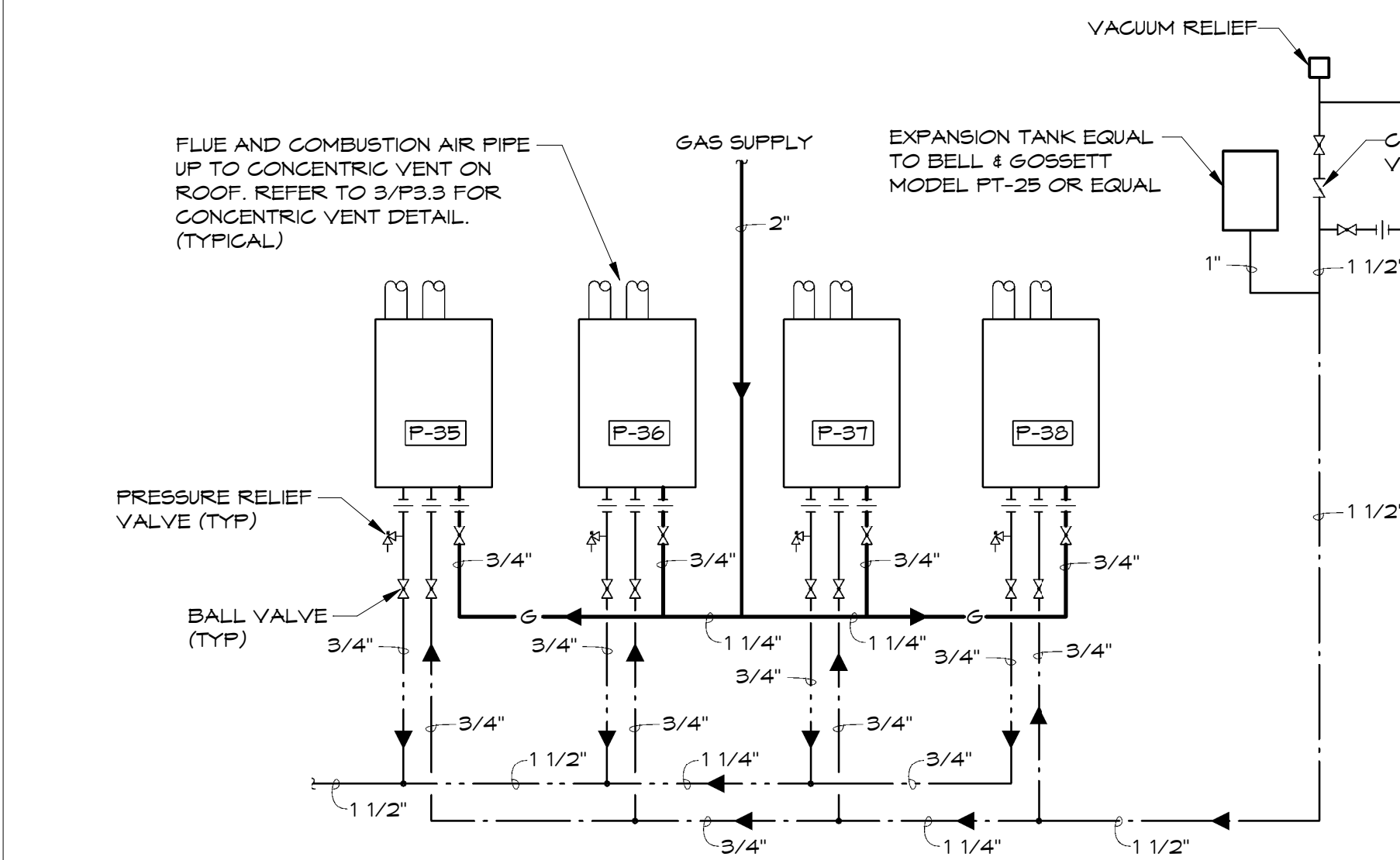
- NOTES:
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 - REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.



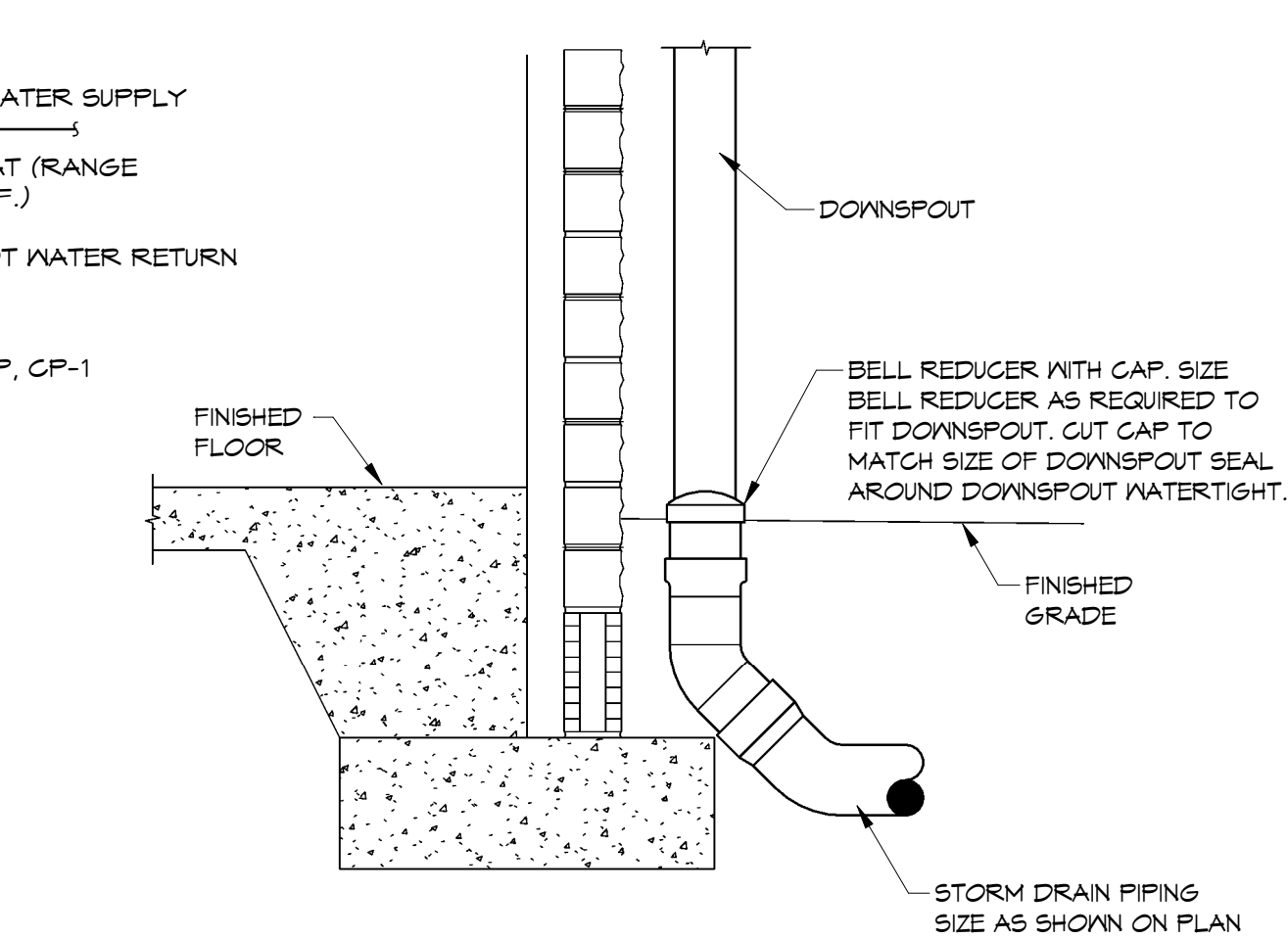
4 FLOOR DRAIN DETAIL
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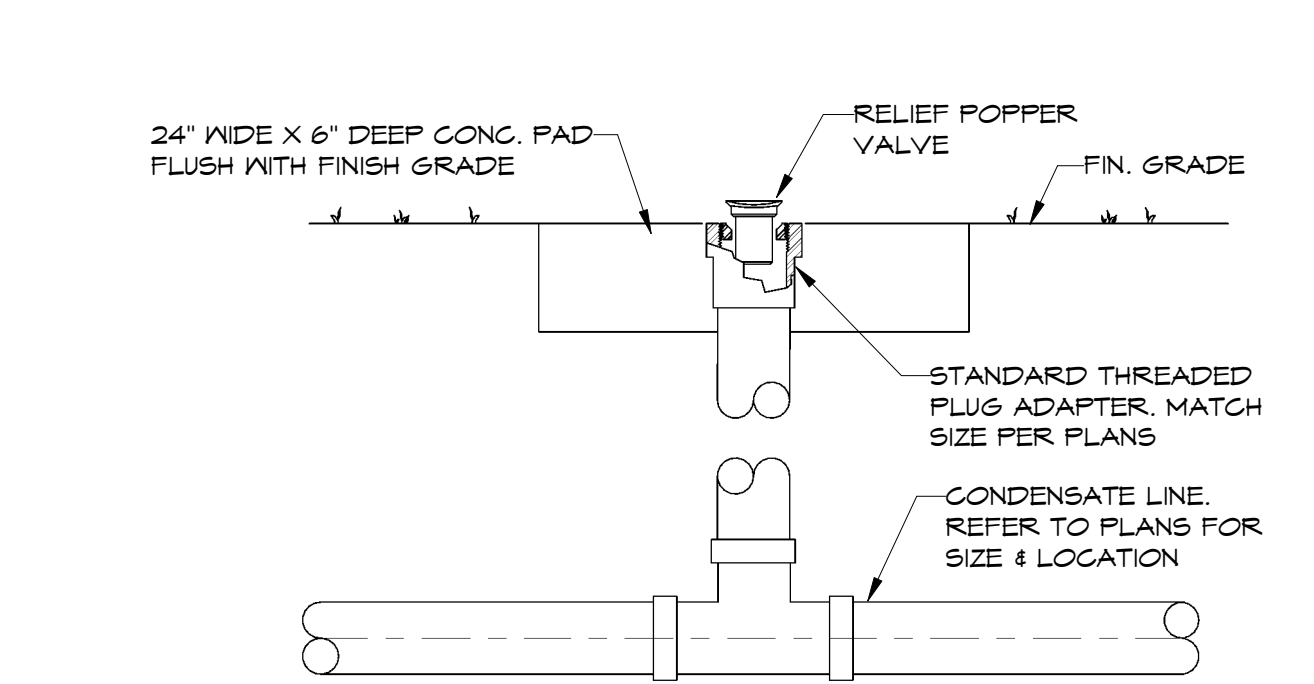
5 FLOOR SINK DETAIL
NTS



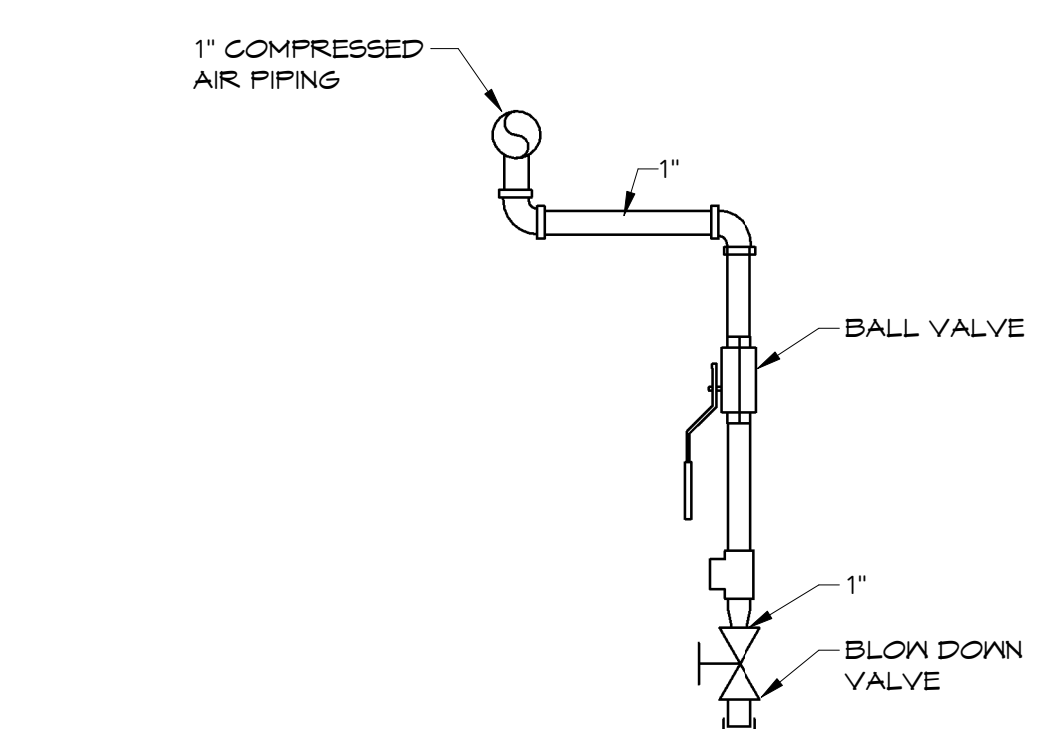
1 WATER HEATER DETAIL
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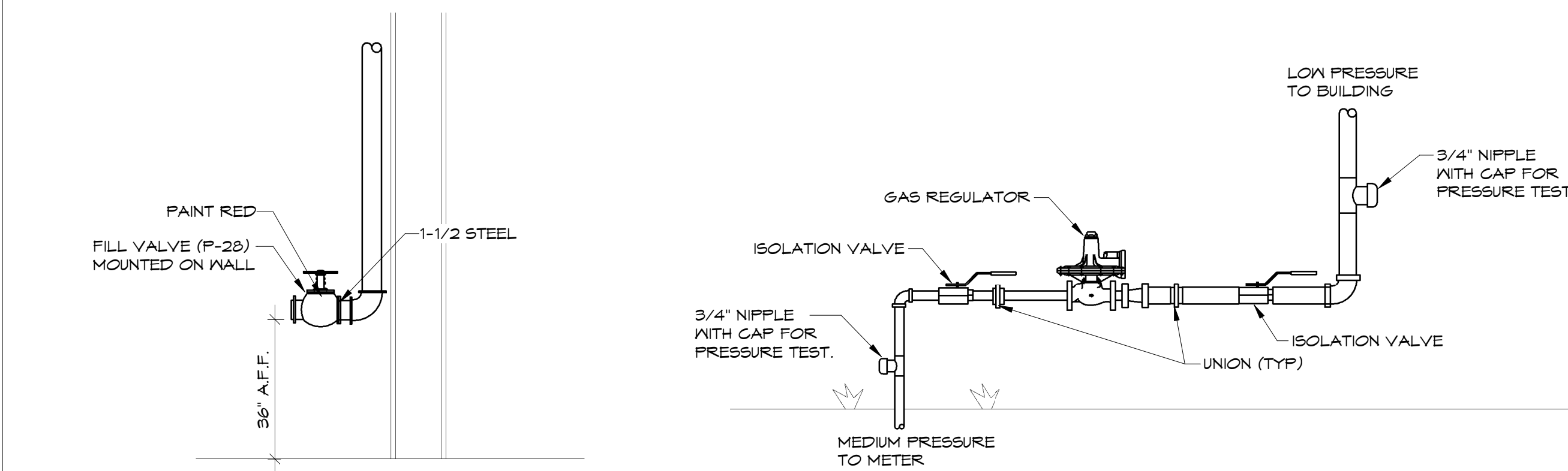
2 DOWNSPOUT BOOT DETAIL
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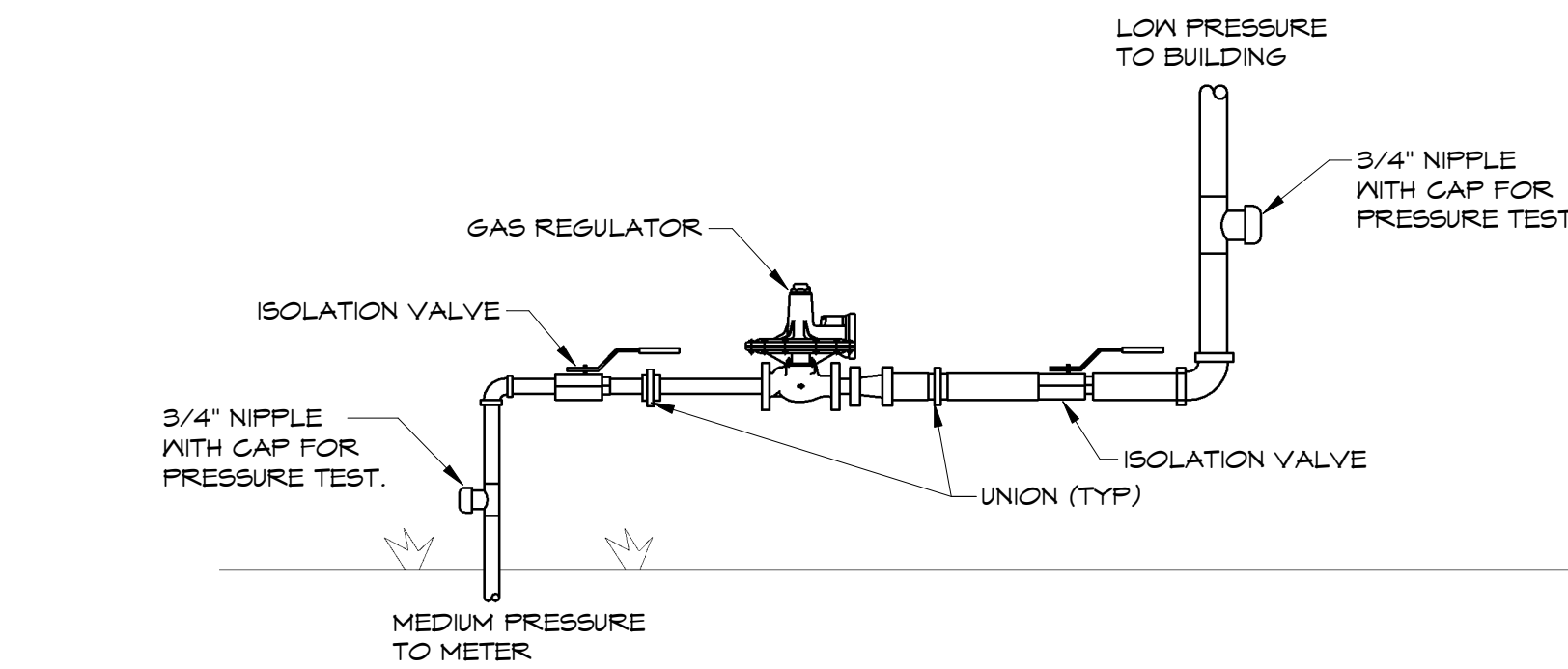
3 RELIEF POPPER VALVE DETAIL
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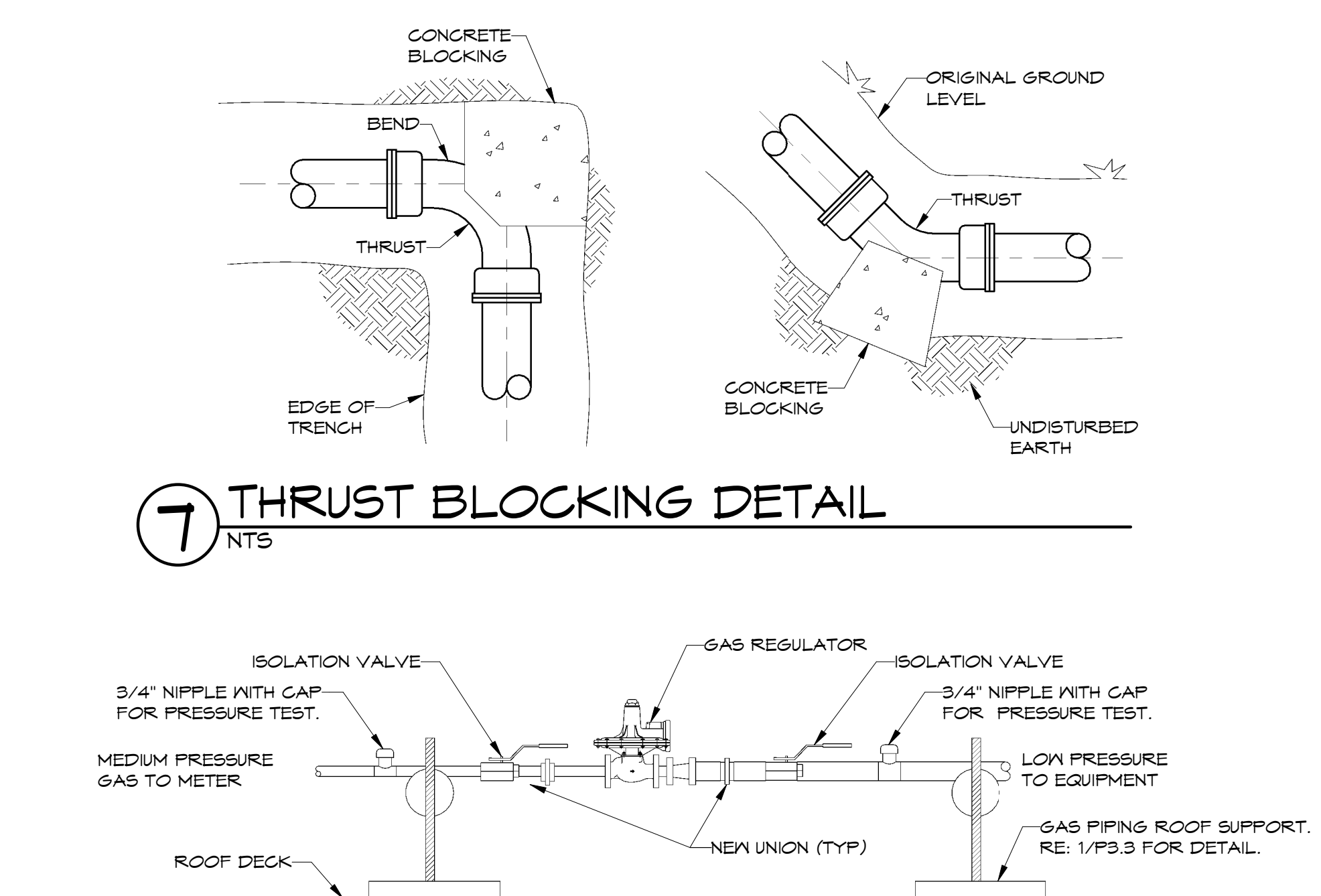
4 BLOW DOWN DETAIL
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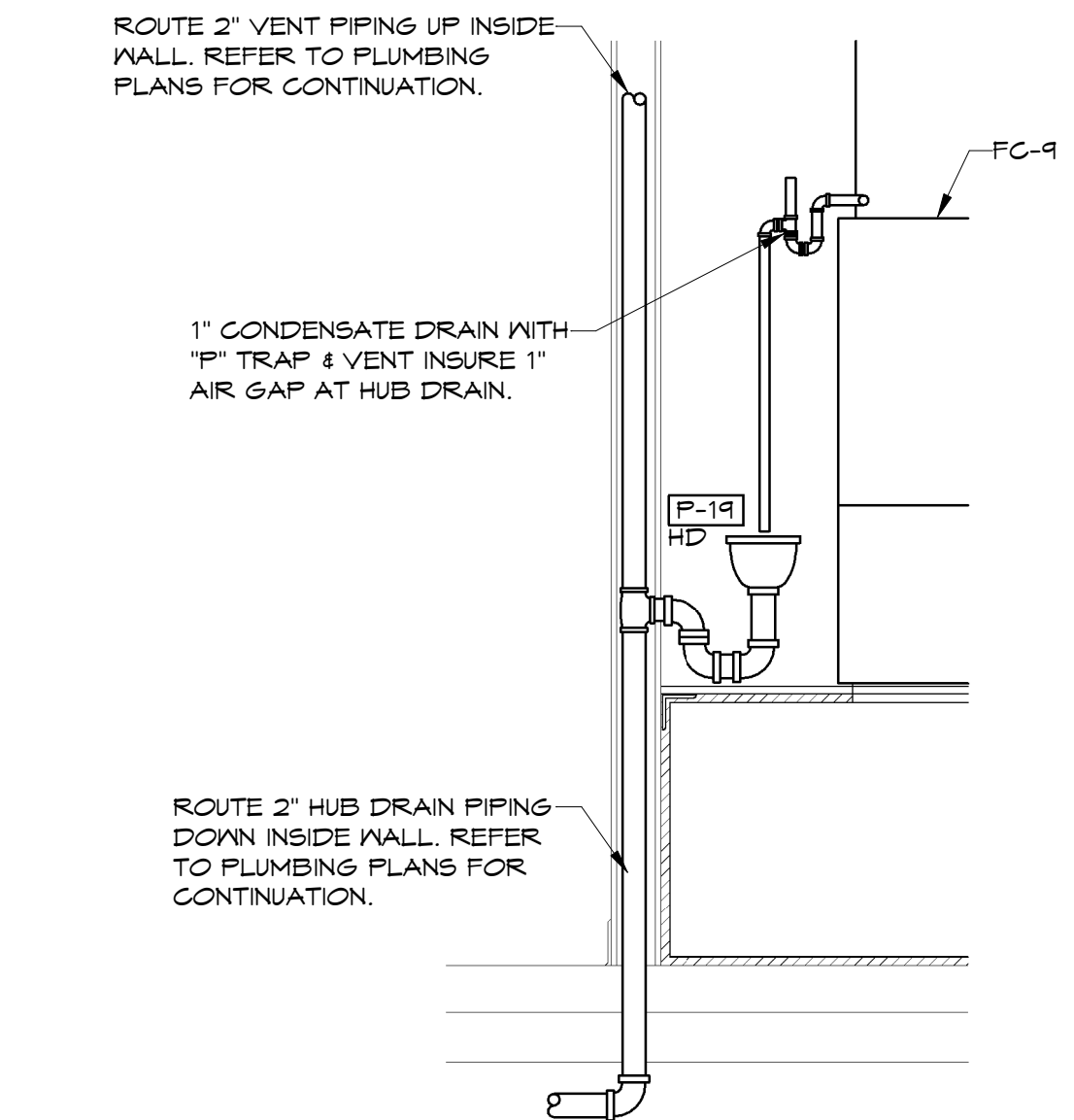
5 FILL VALVE DETAIL
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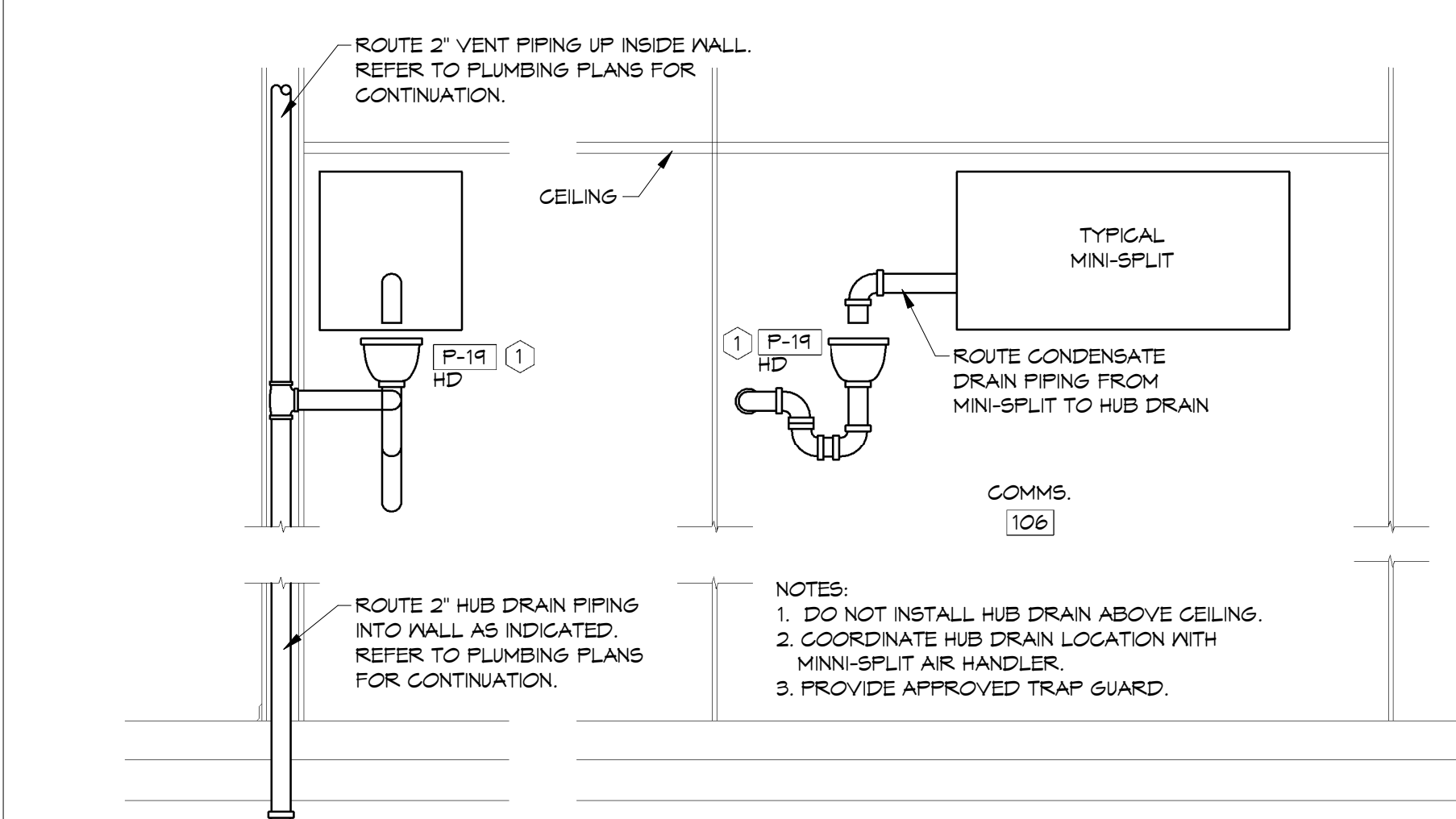
6 HORIZONTAL GAS REGULATOR DETAIL
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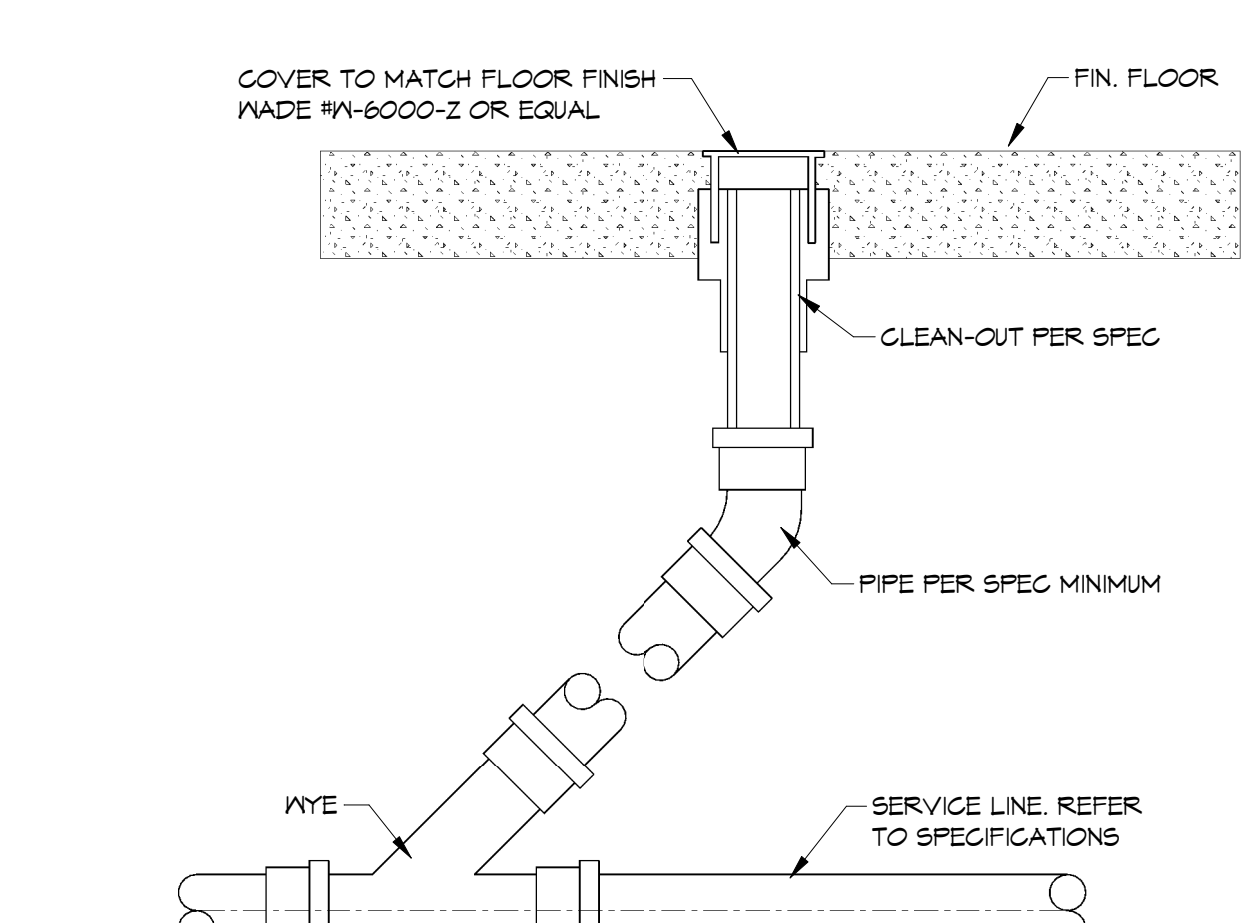
7 THRUST BLOCKING DETAIL
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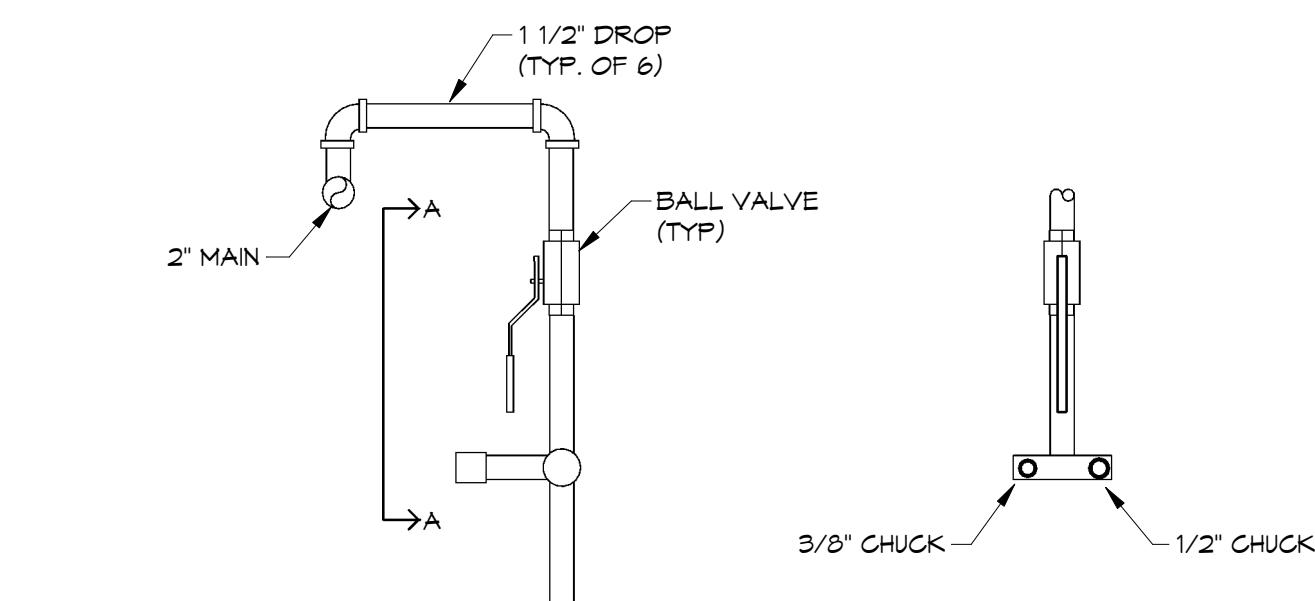
9 VERTICAL FAN COIL HUB DRAIN DETAIL
NTS



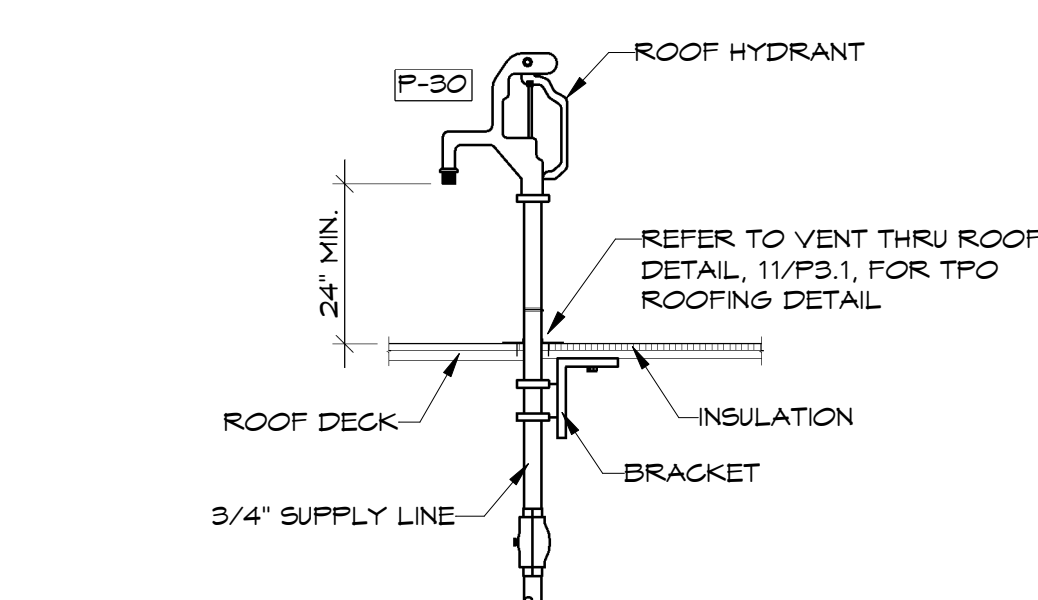
10 MINISPLIT HUB DRAIN DETAIL
NTS



11 FLOOR CLEANOUT DETAIL
NTS



12 AIR DROP DETAIL
NTS



13 ROOF HYDRANT DETAIL
NTS

NOTES:
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REFER TO SHEETS P4.1 THRU P4.3 FOR PLUMBING RISERS.
REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.

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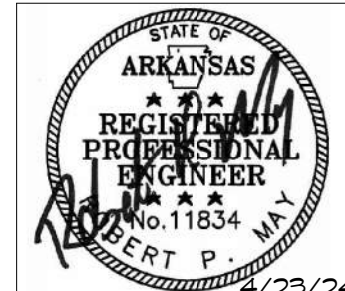
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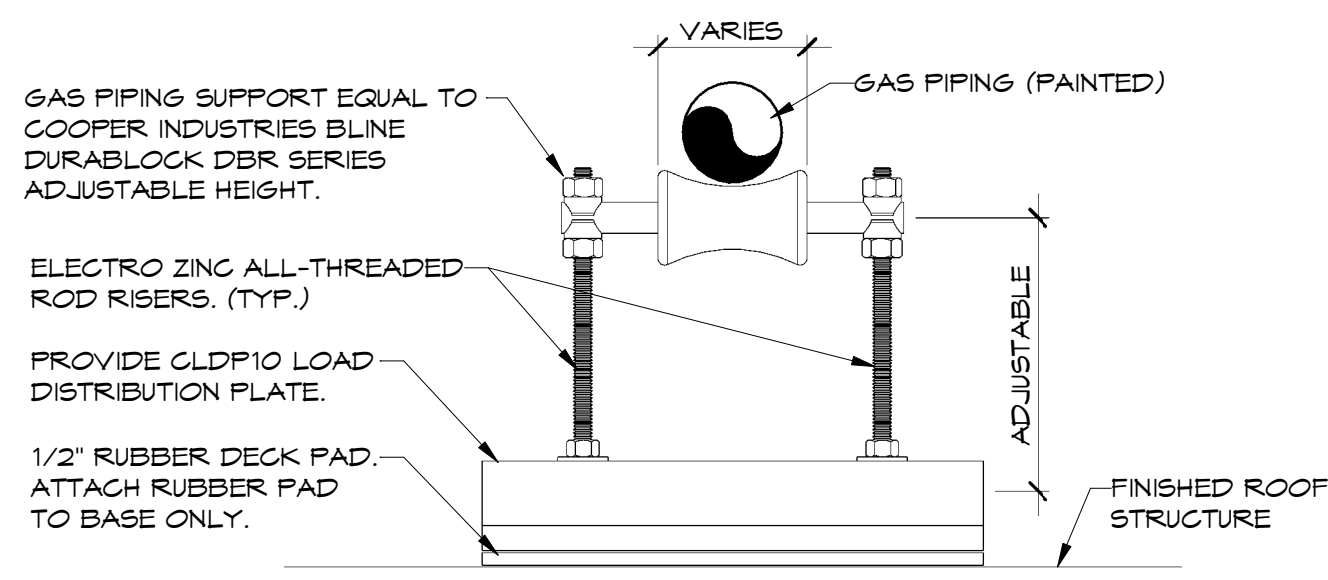
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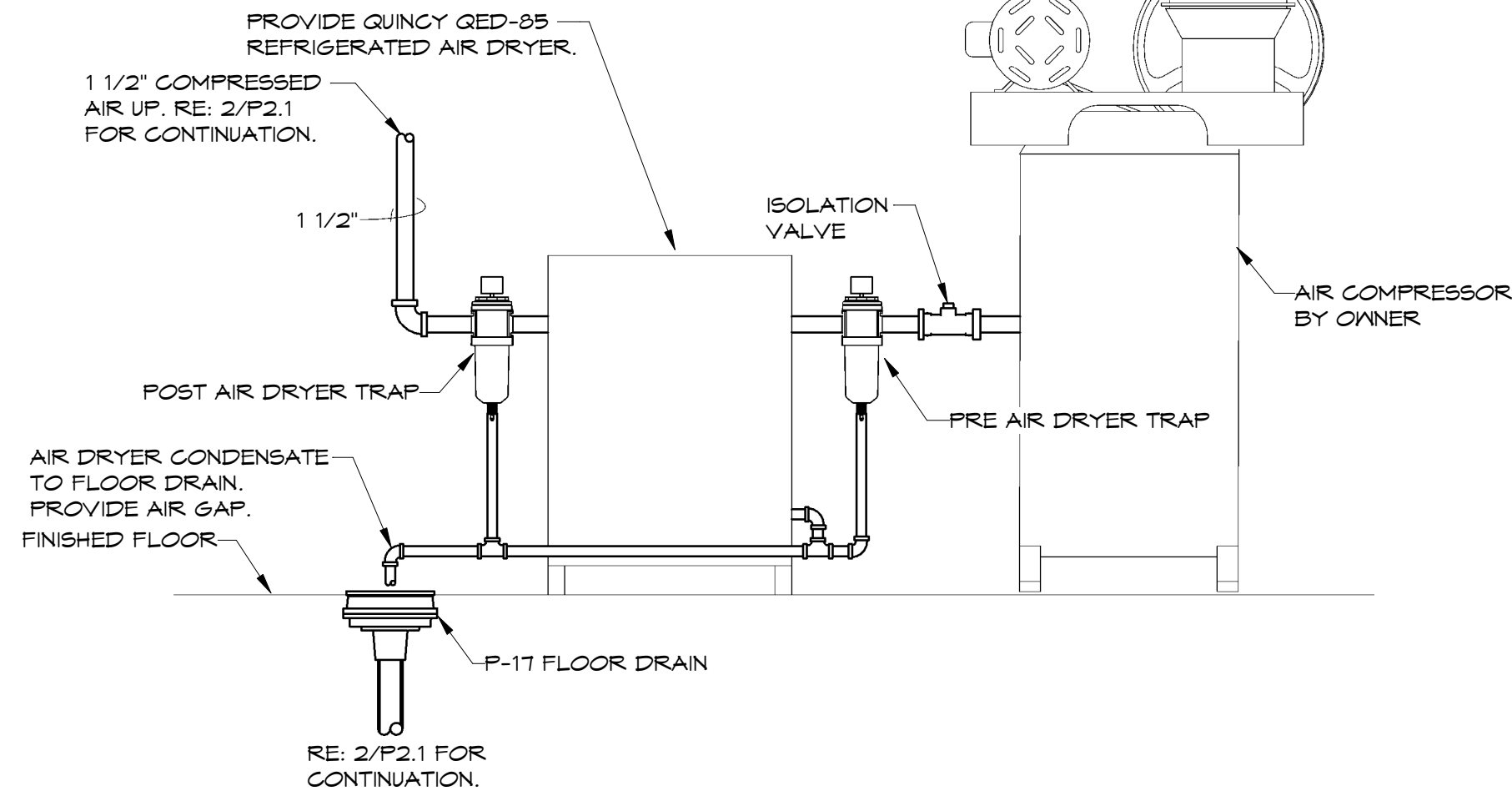
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P3.2

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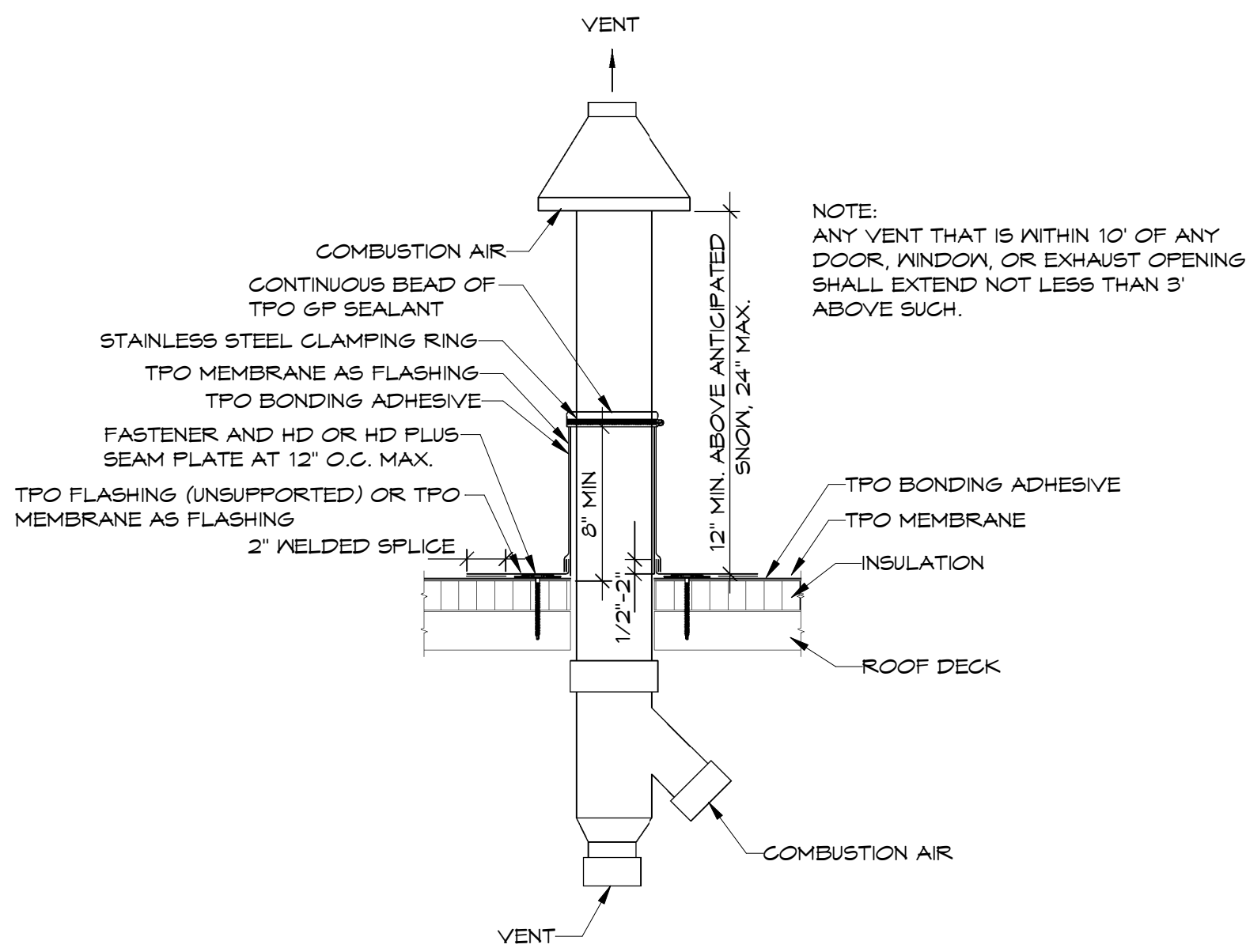


- NOTES:
1. PIPING SHALL BE SUPPORTED AT ALL ELBOWS AND TEES AND AT 10 FT. MAX. SPACING.
 2. GAS PIPING PENETRATIONS THRU ROOF SHALL BE MADE WITH WEATHERPROOF PIPE BOOT WITH ULTRAPLY TPO MEMBRANE AS FLASHING AND STAINLESS STEEL CLAMPING RING.
 3. SUPPORT BASE SHALL HAVE 1/2\"/>

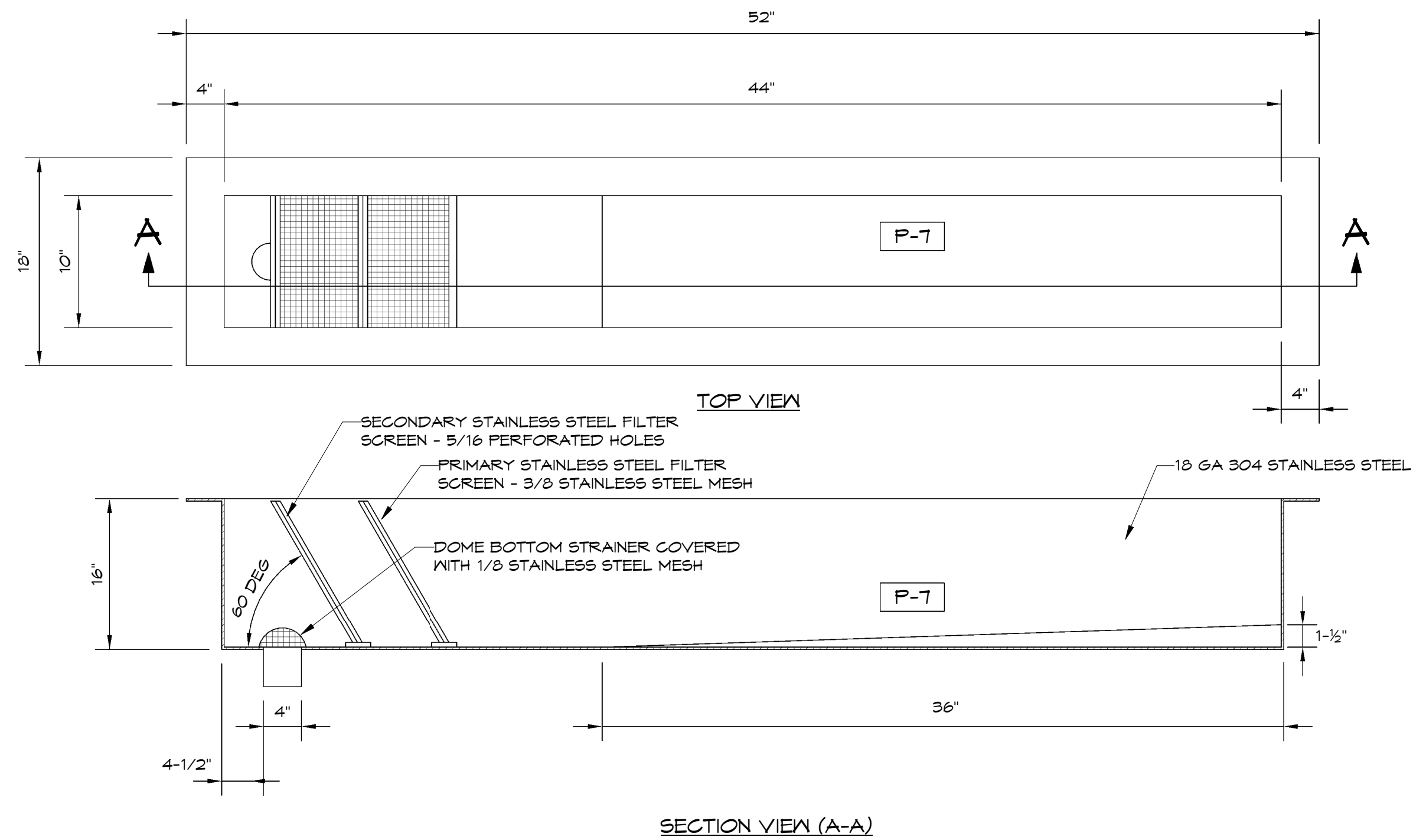
1 GAS PIPING SUPPORT DETAIL
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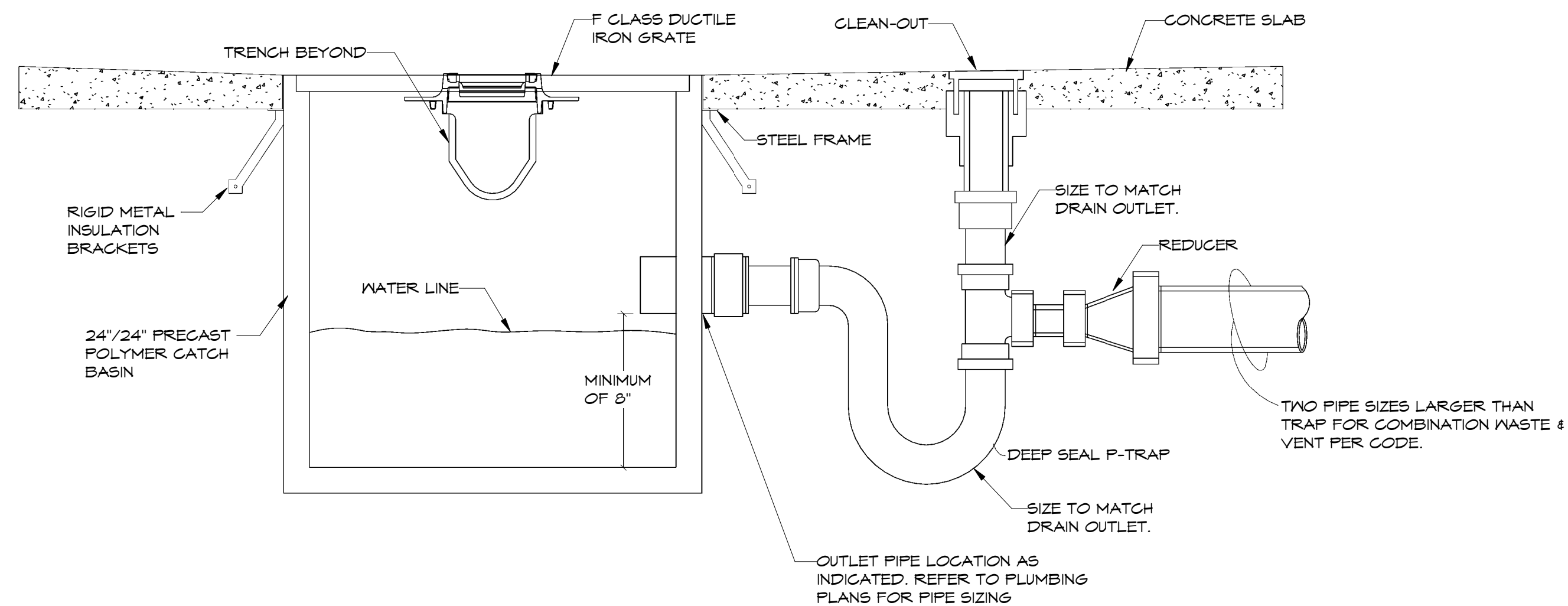
2 AIR COMPRESSOR AND DRYER DETAIL
NTS



3 CONCENTRIC VENT DETAIL
NTS



4 LAUNDRY TRENCH DRAIN
NTS



5 CATCH BASIN DETAIL
NTS

- NOTES:
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REFER TO SHEET P1.1 FOR PLUMBING NOTES & LEGEND.
REFER TO SHEETS P2.1 THRU P2.1B FOR PLUMBING PLANS.
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REFER TO SHEETS P4.1 THRU P4.3 FOR PLUMBING RISERS.
REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.



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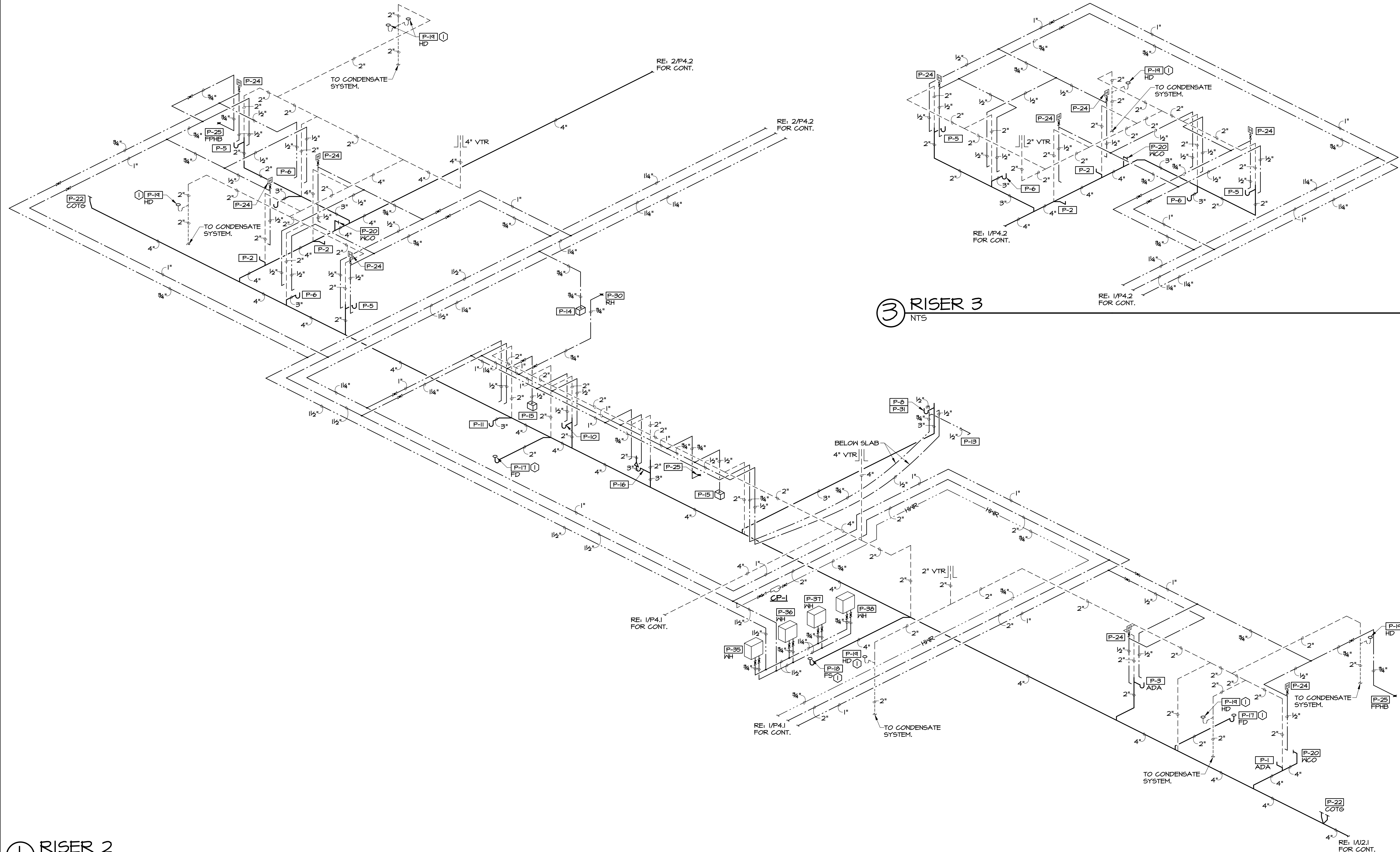
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**PLUMBING
DETAILS**

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P3.3

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① RISER 2 NTS

③ RISER 3 NTS

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REFER TO SHEET P1.1 FOR PLUMBING LEGEND AND NOTES.
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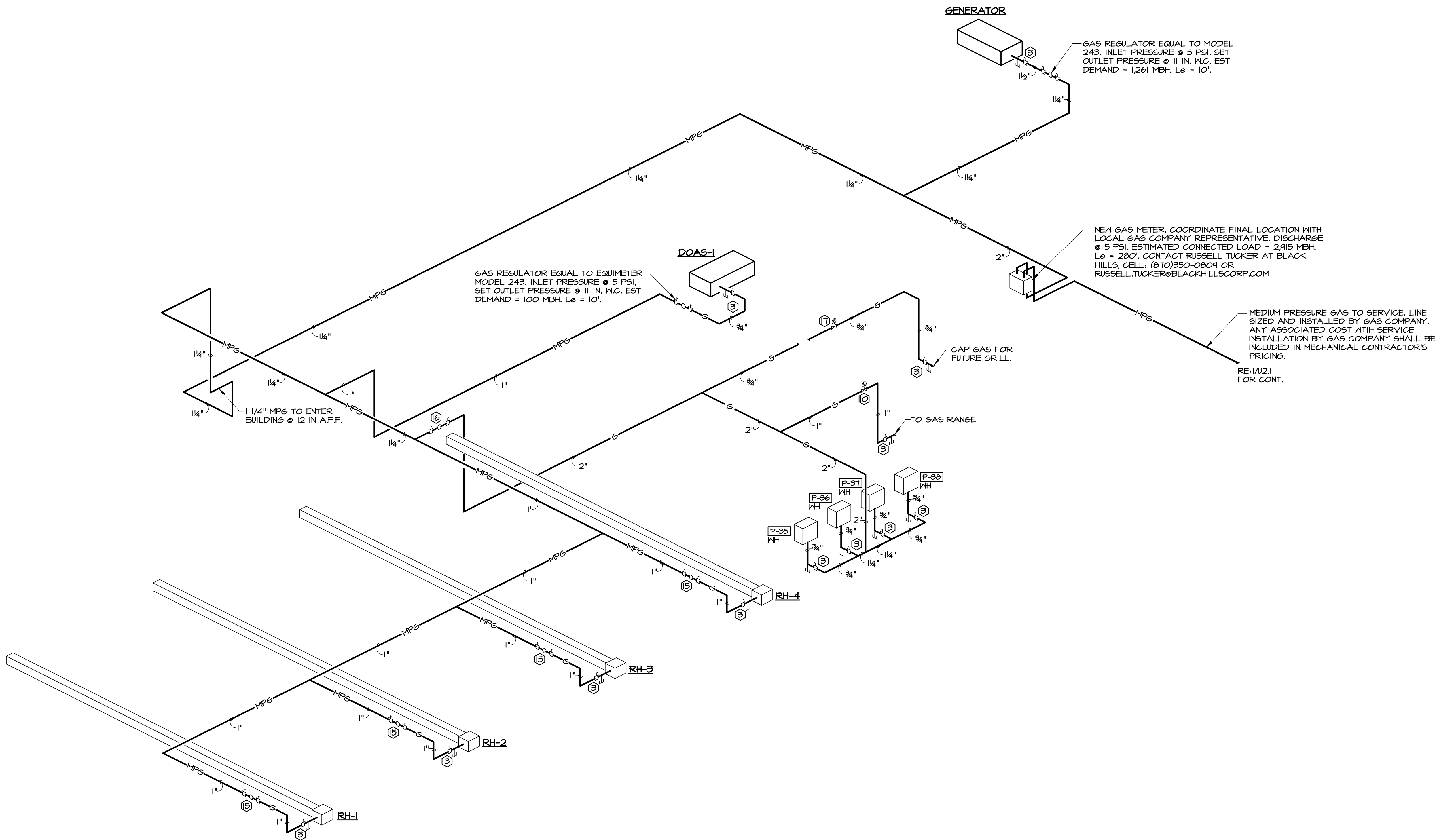
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RISERS**

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1 GAS RISER 1
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NOTES:
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PLUMBING FIXTURE SCHEDULE									
MARK	FIXTURE	MANUFACTURER	MODEL	MOUNT	CONNECTION			REMARKS / ACCESSORIES	
					C/W	H/W	S/S		
P-1	ACCESSIBLE WATER CLOSET	AMERICAN STANDARD	2467.016	FLOOR	1/2	-	4	WHITE VITREOUS CHINA, LOW CONSUMPTION, PRESSURE ASSISTED, ELONGATED BOWL, TANK TYPE TOILET. PROVIDE ANGLE SHUT-OFF, OLSONITE #10 SCC OPEN SEAT AND BOLT CAPS. INSTALL 17 IN. FROM TOP OF SEAT TO FLOOR. 1.6 GPF.	
P-2	WATER CLOSET	AMERICAN STANDARD	2462.016	FLOOR	1/2	-	4	WHITE VITREOUS CHINA, LOW CONSUMPTION, PRESSURE ASSISTED, ELONGATED BOWL, TANK TYPE TOILET. PROVIDE ANGLE SHUT-OFF, OLSONITE #10 SCC OPEN SEAT AND BOLT CAPS. 1.6 GPF.	
P-3	ACCESSIBLE LAVATORY	AMERICAN STANDARD	0355.012	WALL	1/2	1/2	1 1/4	WHITE VITREOUS CHINA LAVATORY WITH FAUCET LEDGE AND BACKSPASH. PROVIDE AMERICAN STANDARD RELIANT T385.080 SINGLE LEVER, 0.5 GPM, FAUCET WITH EXTRA LONG HANDLE, BASE PLATE, GRID DRAIN, MADE #520 WALL CARRIER, HANDLAV MOLDED DRAIN & SUPPLY INSULATION KIT. MOUNT 34 IN. A.F.F. TO TOP OF RIM. PROVIDE MATTS LFMMV UNDER COUNTER THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE AT 105 DEGREES F.	
P-4	LAVATORY	AMERICAN STANDARD	0355.012	WALL	1/2	1/2	1 1/4	WHITE VITREOUS CHINA LAVATORY WITH FAUCET LEDGE AND BACKSPASH. PROVIDE AMERICAN STANDARD RELIANT T385.080 SINGLE LEVER, 0.5 GPM FAUCET WITH EXTRA LONG HANDLE, BASE PLATE, GRID DRAIN, MADE #520 WALL CARRIER, HANDLAV MOLDED DRAIN & SUPPLY INSULATION KIT. MOUNT 31 IN. A.F.F. TO TOP OF RIM. PROVIDE MATTS LFMMV UNDER COUNTER THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE TO 105 DEGREES F.	
P-5	LAVATORY	BY MILLWOK CONTRACTOR	-	COUNTER	1/2	1/2	1 1/4	WHITE VITREOUS CHINA SELF RIMMING LAVATORY. PROVIDE AMERICAN STANDARD RELIANT T385.080 SINGLE LEVER, 0.5 GPM FAUCET WITH EXTRA LONG HANDLE, BASE PLATE, HANDLAV MOLDED DRAIN & SUPPLY INSULATION KIT. PROVIDE MATTS LFMMV UNDER COUNTER THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE AT 105 DEGREES F.	
P-6	CORNER SHOWER PAN	AQUARIUS	ABC 4242	FLOOR	3/4	3/4	3	WHITE THERMAL CAST ACRYLIC CORNER SHOWER BASE (42X42X 7-1/4). PROVIDE POWERS 6420 THERMOSTATIC MIXING VALVE. PROVIDE CHICAGO 620-CP SHOWER HEAD. REFER TO ARCHITECTURAL DRAWINGS FOR SHOOKER WALLS AND DOORS.	
P-7	LAUNDRY TRENCH DRAIN	JAY R. SMITH	5Q-9-3615	FLOOR	-	-	4	FABRICATED 304 STAINLESS STEEL LINT TROUGH WITH REMOVABLE PRIMARY AND SECONDARY STAINLESS STEEL FILTER SCREENS. PROVIDE WITH 4 INCH NO-HUB BOTTOM OUTLET AND STAINLESS STEEL DOME BOTTOM STRAINER. PROVIDE WITH ANCHOR TABS. RE:11/P3.1 FOR DIMENSIONS.	
P-8	SINGLE STAINLESS STEEL SINK	BY COUNTER INSTALLER	-	COUNTER	1/2	1/2	1 1/2	CUSTOM FABRICATED STAINLESS STEEL SINGLE BOWL SINK PROVIDED AND INSTALLED BY STAINLESS STEEL COUNTER INSTALLER. RE: ARCH FOR DIMENSIONS AND DRAIN LOCATION. PROVIDE WITH JUST JS-35 DRAIN AND CRUMB CUP STRAINER. MECHANICAL CONTRACTOR TO PROVIDE ALL MATERIALS TO MAKE FINAL CONNECTIONS, INCLUDING TAIL PIECE AND ANGLE STOP VALVES. PROVIDE PIPE INSULATION. PROVIDE AMERICAN STANDARD 4303850 SEMI PRO FULL-DOWN DUAL SPRAY KITCHEN FAUCET WITH SPRING SPOUT. PROVIDE MATTS LFMMV THERMOSTATIC MIXING VALVE. SET WATER TEMPERATURE AT 105°F. 1.8 GPM MAXIMUM.	
P-9	ACCESSIBLE STAINLESS STEEL HAND WASH SINK	ELKAY	EW525201	WALL	1/2	1/2	1 1/4	SINGLE COMPARTMENT STAINLESS STEEL SINK (16X22X10-1/2 I.D.) PROVIDE WITH ELKAY LKB722C BATTERY POWER BACKSPASH MOUNTED GOOSENECK SENSOR FAUCET. PROVIDE MATTS LFMMV THERMOSTATIC MIXING VALVE. SET TEMPERATURE AT 105°F.	
P-10	STAINLESS STEEL UTILITY TUB	ELKAY	14-1C18X24-0X	FLOOR	1/2	1/2	2	STAINLESS STEEL SINGLE COMPARTMENT UTILITY SINK. PROVIDE ZURN Z842X1-XL-AF WALL MOUNTED PRE-RINSE FAUCET. PROVIDE (2) HOLE BACKSPASH PUNCH ON 8" CENTERS. PROVIDE CENTERED DRAIN PUNCH AND ZURN Z8734-PC DRAIN.	
P-11	SERVICE SINK	FIAT	MSB2424	FLOOR	1/2	1/2	3	MOLDED STONE 24X24X10 SERVICE SINK. PROVIDE CHROME PLATED FIAT #830-AA FAUCET WITH TOP BRACE AND VACUUM BREAKER, #832-AA HOSE AND BRACKET, 3 IN. GRID DRAIN AND STRAINER, TWO STAINLESS STEEL WALL GUARDS AND 3 MOP HOLDER. MOUNT MOP HOLDER 60 IN. AFF.	
P-12	DOUBLE STAINLESS STEEL UTILITY TUB	ELKAY	5682422	FLOOR	1/2	1/2	3	STAINLESS STEEL DOUBLE COMPARTMENT UTILITY SINK. PROVIDE ZURN Z842X1 WALL MOUNTED PRE-RINSE FAUCET. PROVIDE (2) HOLE BACKSPASH PUNCH ON 8" CENTERS. PROVIDE CENTERED DRAIN PUNCH AND ZURN Z8734-PC DRAIN.	
P-13	DISHWASHER	BY OWNER	-	UNDER COUNTER	-	3/8	***	MECHANICAL CONTRACTOR TO PROVIDE ALL MATERIALS TO MAKE FINAL CONNECTION INCLUDING AIR GAP DEVICE.	
P-14	ICE MAKER WALL BOX	GUY GRAY	BM875	WALL	1/2	-	-	WALL MOUNTED ICE MAKER HOOK UP WITH ANGLE VALVE.	
P-15	COFFEE MAKER WALL BOX	GUY GRAY	BM875	WALL	1/2	-	-	WALL MOUNTED ICE MAKER HOOKUP WITH ANGLE VALVE. MOUNT IN MILLWOK, BELOW COUNTER. VERIFY MOUNTING HEIGHT WITH MILLWOK ELEVATIONS.	
P-16	LAUNDRY WALL BOX	GUY GRAY	BB200T5	WALL	1/2	1/2	2	WASHING MACHINE WALL BOX WITH TOP SUPPLY AND 2 INCH DRAIN. MOUNT BOTTOM OF BOX MINIMUM 36" AFF.	
P-17	FLOOR DRAIN	MADE	1100	FLOOR	-	-	*	*CAST IRON FLOOR DRAIN, SIZE AS INDICATED ON PLANS OR MATCH INDICATED WASTE LINE. PROVIDE 1/2 IN. TRAP PRIMER CONNECTION AND DEEP SEAL TRAP. COORDINATE DRAIN TOP MATERIAL WITH SPECIFIED FLOOR FINISH.	
P-18	FLOOR SINK	MADE	9110	FLOOR	-	-	*	*CAST IRON FLOOR SINK WITH NICKEL BRONZE GRATE. SIZE AS INDICATED ON PLANS OR MATCH WASTE LINE SIZE WHEN NOT INDICATED. PROVIDE 3/4 GRATE AND DEEP SEAL TRAP.	
P-19	HUB DRAIN	-	PVC REDUCER	ABOVE FLOOR	-	-	*	PVC REDUCER WITH TRAP. PROVIDE TRAP GUARD PROTECTION. REDUCER SHALL BE WITHIN TWO PIPE SIZES OF CONNECTED SANITARY PIPING.	
P-20	WALL CLEAN OUT	MADE	8550-R	FLOOR	-	-	*	*SIZE TO MATCH WASTE LINE. MAXIMUM TO 4 INCHES. PROVIDE MADE 8304 STAINLESS STEEL WALL ACCESS COVER.	
P-21	FLOOR CLEANOUT	MADE	6000	FLOOR	-	-	*	*SIZE TO MATCH WASTE LINE. MAXIMUM TO 4 INCHES. PROVIDE OPTIONAL TOP TO MATCH FLOOR FINISH. REFER TO ARCHITECTURAL PLANS FOR FLOOR FINISH SCHEDULE.	
P-22	CLEAN OUT TO GRADE	MADE	6000Z	TO GRADE	-	-	*	*SIZE TO MATCH WASTE LINE MAXIMUM TO 4 INCHES. PROVIDE HEAVY DUTY TRACTOR TYPE COVER.	
P-23	DOWNSPOUT BOOT	-	-	GRADE	-	-	*	PROVIDE PVC BELL REDUCER WITH CAP. SIZE BELL REDUCER AS REQUIRED TO FIT DOWNSPOUT. CUT CAP TO MATCH SIZE OF DOWNSPOUT. RE: 2/P3.2 FOR DETAIL.	
P-24	WATER HAMMER ARRESTOR	MADE BELLOWS	SHOKSTOP	-	*	*	-	*SIZE WATER HAMMER ARRESTOR PER MANUFACTURER'S RECOMMENDATIONS. ALL STAINLESS STEEL CONSTRUCTION WITH WELDED NESTED BELLOWS. PROVIDE BALL VALVE FOR SHUT-OFF.	
P-25	FREEZE PROOF HOSE BIB	WOODFORD	B67	WALL	3/4	-	-	FREEZE PROOF HOSE BIBB IN LOCKING BOX. PROVIDE VACUUM BREAKER AND BACKFLOW PREVENTION.	
P-26	HOSE BIB	WOODFORD	B75	WALL	3/4	-	-	HOSE BIB IN LOCKING BOX. PROVIDE VACUUM BREAKER, BACKFLOW AND AUTOMATIC DRAIN. FIELD VERIFY ROUGH IN DIMENSIONS. INSTALL 18" A.F.F.	
P-27	EXTRACTOR SUPPLY VALVE	MATTS	LFB6001	WALL	-	3/4	-	PROVIDE 3/4" BALL VALVE WITH SOLDER END CONNECTIONS. PROVIDE 3/4" HOSE CONNECTION FOR WASHER HOSE CONNECTION. COORDINATE HEIGHT WITH EXTRACTOR INLET CONNECTIONS.	
P-28	HOSE CONNECTOR	NNI	PHF400 18-217	WALL	1 1/2	-	-	1-1/2 INCH BRASS ANGLE HOSE VALVE FOR PRESSURES UP TO 300 PSI. FEMALE OUTLET, THREADED AND CAPPED. COORDINATE WITH THE FIRE DEPARTMENT FOR HOSE CONNECTION TYPE. RE: 5/P3.2 FOR DETAIL.	
P-29	POT FILLER	DELTA	117TLF-S6	WALL	1/2	-	-	WALL MOUNTED POT FILLER WITH SINGLE CONTROL VALVE, 24" DOUBLE JOINT NOZZLE AND HEAT RESISTANT HANDLE. PROVIDE STAINLESS STEEL MODEL.	
P-30	ROOF HYDRANT	WOODFORD	SRH-M5	ROOF	3/4	-	-	AUTOMATIC DRAINING, BACKFLOW PROTECTED, FREEZE PROOF ROOF HYDRANT.	
P-31	GARBAGE DISPOSAL	IN-SINK-ERATOR	BADGER 5	UNDER COUNTER	-	-	1 1/4	1/2 HP GARBAGE DISPOSAL. PROVIDE ELECTRICAL CORD.	
P-32	TRENCH DRAIN	DURA TRENCH	DTFF4-HDBP08ZSA	FLOOR	-	-	*	*SIZE TO MATCH WASTE LINE. 4" WIDE INTERIOR TRENCH DRAIN WITH PRECAST REINFORCED POLYMER TRENCH BODY AND HEAVY DUTY LOAD BEARING Z-FRAME WITH BLACK POWDER COATED FINISH. PROVIDE WITH DURA TRENCH OSB24DI 5" DUCTILE IRON SLOTTED GRATE. FIELD VERIFY AMOUNT OF SECTIONS NEEDED.	
P-33	CATCH BASIN	DURA TRENCH	DTCBFF24-26CBHDBP	FLOOR	-	-	*	24" WIDE BY 24" LONG PRECAST POLYMER CATCH BASIN WITH HEAVY DUTY BLACK POWDER COATED STEEL FRAME.	
P-34	OIL/SAND SEPARATOR	STRIEM	OS-100	BELOW GRADE	-	-	4	250 GPM FLOW RATE, POLYPROPYLENE OIL SEPARATOR WITH HEAVY DUTY GASKETED COVERS. PROVIDE EXTENSIONS TO GRADE AS REQUIRED FOR SERVICE. PROVIDE WITH PICKABLE CAST IRON COVER (16,000 LBS RATED). E CAST IRON COVER (16,000 LBS RATED).	
P-35	TANKLESS GAS WATER HEATER	A.O. SMITH	ATI-540	WALL	3/4	1 1/4	-	TEMPERATURE CONTROLLED, CONTINUOUS FLOW, GAS WATER HEATER, DIRECT VENT, FORCED COMBUSTION, WITH ELECTRIC IGNITION. 199 MBH. 3/4 IN. GAS CONNECTION. PROVIDE FACTORY CONCENTRIC VENT KIT.	
P-36	TANKLESS GAS WATER HEATER	A.O. SMITH	ATI-540	WALL	3/4	3/4	-	TEMPERATURE CONTROLLED, CONTINUOUS FLOW, GAS WATER HEATER, DIRECT VENT, FORCED COMBUSTION, WITH ELECTRIC IGNITION. 199 MBH. 3/4 IN. GAS CONNECTION. PROVIDE FACTORY CONCENTRIC VENT KIT.	
P-37	TANKLESS GAS WATER HEATER	A.O. SMITH	ATI-540	WALL	3/4	3/4	-	TEMPERATURE CONTROLLED, CONTINUOUS FLOW, GAS WATER HEATER, DIRECT VENT, FORCED COMBUSTION, WITH ELECTRIC IGNITION. 199 MBH. 3/4 IN. GAS CONNECTION. PROVIDE FACTORY CONCENTRIC VENT KIT.	
P-38	TANKLESS GAS WATER HEATER	A.O. SMITH	ATI-540	WALL	3/4	3/4	-	TEMPERATURE CONTROLLED, CONTINUOUS FLOW, GAS WATER HEATER, DIRECT VENT, FORCED COMBUSTION, WITH ELECTRIC IGNITION. 199 MBH. 3/4 IN. GAS CONNECTION. PROVIDE FACTORY CONCENTRIC VENT KIT.	

- NOTES
- COORDINATE COUNTER TOP FIXTURE INSTALLATION WITH MILLWOK.
 - INSTALL ACCESSIBLE FLUSH VALVE TO THE ACCESSIBLE SIDE.
 - () DENOTES INDIRECT DRAIN.
 - MECHANICAL CONTRACTOR SHALL PROVIDE APPROVED TRAP GUARDS ON ALL FLOOR SINKS AND FLOOR DRAINS.

CIRCULATING PUMP SCHEDULE							
MARK	MFG	MODEL	GPM	HEAD (FT)	VLT / PH / HZ	WATTS	REMARKS / ACCESSORIES
CP-1	BELL & GOSSETT	NBF-10S/LM	5.0	4	115 / 1 / 60	0.07	1, 2

- REMARKS / ACCESSORIES
- BRONZE CONSTRUCTION FOR HOT WATER RECIRCULATION.
 - PROVIDE AQUASTAT WITH 100° - 160°F RANGE (ADJUSTABLE) INSTALLED IN HOT WTER RETURN LINE. WIRE CONTROLS FROM AQUASTAT TO CYCLE PUMP OFF WHEN RETURN WATER REACHES SET POINT.

BOOSTER PUMP SCHEDULE							
MARK	MFG	MODEL	GPM	HEAD (FT)	VLT / PH / HZ	HP	REMARKS / ACCESSORIES
BP-1	QUANTUM FLO	PRODIGY - SIMPLEX	75	115.5	208 / 3 / 60	5	1, 2, 3, 4, 5

- REMARKS / ACCESSORIES
- SIMPLEX PUMPING PACKAGE.
 - SKID MOUNTED PUMPING PACKAGE WITH CONTROL PANEL. CONTROL PANEL TO HAVE SINGLE POINT POWER CONNECTION WITH DISCONNECT.
 - 304 STAINLESS STEEL HEADERS, PIPING, AND FRAME.
 - CONTROL PANEL TO INCLUDE VFD WITH PRESSURE CONTROL.
 - NSF312 LEAD FREE PLUMBING PRODUCT.

- NOTES:
- REFER TO SHEET U2.1 FOR UTILITY SITE PLAN.
- REFER TO SHEET P1.1 FOR PLUMBING NOTES & LEGEND.
- REFER TO SHEETS P2.1 THRU P2.1B FOR PLUMBING PLANS.
- REFER TO SHEETS P3.1 THRU P3.3 FOR PLUMBING DETAILS.
- REFER TO SHEETS P4.1 THRU P4.3 FOR PLUMBING RISERS.
- REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.



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CITY OF MOUNTAIN HOME, AR

FIRE STATION #2

2030 HWY 62 E
MOUNTAIN HOME, AR 72653



ID.	REVISION	DATE				

MBL JOB NO.
230006

ISSUE DATE
04/23/2024

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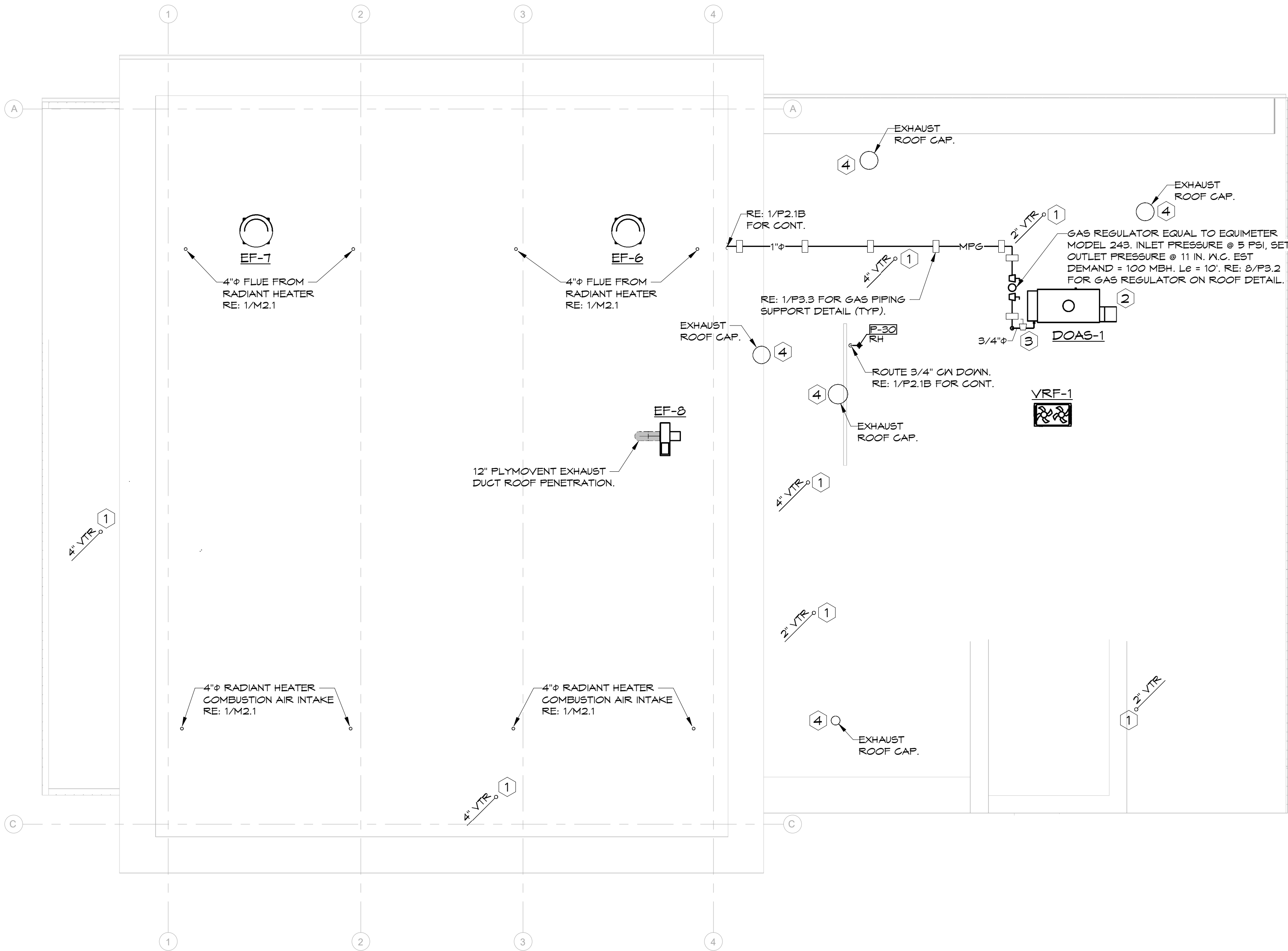
PLUMBING
SCHEDULES

SHEET
P5.1

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MECHANICAL ROOF KEYED NOTES (THIS SHEET ONLY)

- 1 MAINTAIN A MINIMUM OF 10 FT. CLEARANCE BETWEEN ALL EXHAUST OUTLETS, FLUES, PLUMBING VENTS AND ANY FRESH AIR INTAKES. IF 10 FT. CLEARANCE CAN NOT BE MAINTAINED EXHAUST OUTLET, FLUE, OR VENT MUST TERMINATE AT A POINT AT LEAST 36 IN. ABOVE HIGHEST FRESH AIR INTAKE WITHIN 10 FT. LIMIT.
- 2 MECHANICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT, FANS AND APPLIANCES A MINIMUM OF 10 FEET FROM A ROOF EDGE OR OPEN SIDE WHERE SUCH EDGE OR OPEN SIDE IS GREATER THAN 30 INCHES ABOVE A FLOOR, ROOF OR GRADE BELOW. GUARD RAILS A MINIMUM OF 42 INCHES THE ELEVATED SURFACE SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND EXTENDED A MINIMUM OF 30 INCHES BEYOND EACH END OF SUCH EQUIPMENT, FAN OR APPLIANCE WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS ARE LOCATED WITHIN THE REQUIRED 10 FOOT CLEARANCE REQUIREMENT. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH DIAMETER SPHERE AND COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST ACCEPTED INTERNATIONAL BUILDING CODE.
- 3 PROVIDE AND INSTALL 6 INCH DIRT LEG AND GAS STOP (BALL VALVE ONLY) AT ALL EQUIPMENT GAS CONNECTIONS. REFER TO DETAIL 7/P3.1.
- 4 EXHAUST ROOF CAP. REFER TO 8/M3.1 FOR DETAIL.



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

NOTES:
REFER TO SHEET U2.1 FOR UTILITY SITE PLAN.
REFER TO SHEET P1.1 FOR PLUMBING NOTES & LEGEND.
REFER TO SHEETS P2.1 THRU P2.1B FOR PLUMBING PLANS.
REFER TO SHEETS P3.1 THRU P3.3 FOR PLUMBING DETAILS.
REFER TO SHEETS P4.1 THRU P4.3 FOR PLUMBING RISERS.
REFER TO SHEET P5.1 FOR PLUMBING SCHEDULES.




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**MECHANICAL
ROOF PLAN**

SHEET
MP2.1

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GENERAL HVAC NOTES

- COORDINATE GRILLE LOCATIONS WITH LIGHT FIXTURES, SPRINKLERS AND CEILING GRID.
- INDICATED DUCT SIZES ARE NET FREE AREA.
- ADJUST ALL AIR QUANTITIES AS SHOWN ON THE PLANS AFTER COMPLETION OF THE JOB.
- INSULATE THE SUPPLY GRILLE TOPS, RETURN AIR GRILLE FLENUMS AND EXHAUST AIR FLENUMS WITH 2 IN., 3/4 LB DENSITY FOIL BACKED INSULATION.
- FIRE AND/OR SMOKE DAMPERS ARE INDICATED ON MECHANICAL DRAWINGS. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY LOCATIONS AND FIRE RATING REQUIREMENTS WHERE ANY DUCT PASSES THROUGH A PARTITION. REFER TO ARCHITECTURAL PLANS FOR LOCATION OF ALL FIRE AND SMOKE PARTITIONS. VERIFY REQUIRED DAMPER ASSEMBLY IN ALL DUCTS PENETRATING THESE WALLS PER ALL STATE AND LOCAL CODES.
- EXTERNALLY INSULATE ALL ROUND SUPPLY AND RETURN DUCT. INTERNALLY INSULATE ALL RECTANGULAR SUPPLY AND RETURN DUCT PER MECHANICAL CODE. ATTACH THE INTERNAL INSULATION TO THE DUCT WITH APPROVED ADHESIVE AND WELDED FASTENERS.
- MECHANICAL CONTRACTOR SHALL COORDINATE ALL DUCTWORK WITH FIELD CONDITIONS AND PROVIDE ALL OFFSETS, BENDS, TRANSITIONS AND SPECIAL FITTINGS FOR A COMPLETE INSTALLATION OF THE SYSTEMS.
- USE FLANGED AND GASKETED DUCT CONSTRUCTION FOR RECTANGULAR DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. USE LOCKED SEAM SPIRAL DUCT CONSTRUCTION FOR ROUND DUCT CONVEYING AIR AT STATIC PRESSURES ABOVE 2 IN. W.G. ALL HIGH PRESSURE DUCT CONSTRUCTION SHALL ADHERE TO SMACNA DUCT CONSTRUCTION STANDARDS (LATEST EDITION) FOR DUCT CLASSIFICATION UP TO 5 IN. W.G.
- INTERIOR OF ALL DUCT FLENUMS VISIBLE THROUGH GRILLE SHALL BE PAINTED MATTE BLACK PRIOR TO INSTALLATION.
- INTERLOCK EXHAUST FANS WITH LIGHT SWITCHES. REFER TO ELECTRICAL PLANS.
- PAINT ALL SUPPLY AND RETURN AIR GRILLES NOT SPECIFIED AS PRE-FINISHED, TO ARCHITECT'S SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
- MAINTAIN 10 FT. MINIMUM CLEARANCE BETWEEN FRESH AIR INTAKES AND ALL EXHAUST OUTLETS, GAS FLUES AND PLUMBING VENTS.
- INSTALL VOLUME CONTROL DAMPERS IN SUPPLY, RETURN, EXHAUST AND FRESH AIR BRANCH DUCT RUNS.
- ALL MECHANICAL INSTALLATIONS SHALL CONFORM TO THE LATEST ACCEPTABLE MECHANICAL CODE.
- SEAL ALL DUCT SEAMS WITH HARDCAST IRON GRIP 601 SEALANT SYSTEM OR AN APPROVED EQUAL. DUCT TAPE, WHETHER LISTED OR NOT, WILL NOT BE ACCEPTED.
- FABRICATE AND INSTALL ALL GALVANIZED DUCT SYSTEMS TO SMACNA DUCT CONSTRUCTION STANDARDS, LATEST EDITION, AND MECHANICAL CODE.
- FABRICATE AND INSTALL AUXILIARY CONDENSATE DRAIN PAN UNDER ENTIRE AIR HANDLER WITH CONDENSATE PAN SWITCH INTERLOCKED WITH AIR HANDLER FOR SHUT DOWN WHEN CONDENSATE OVER FLOW SENSE.
- EVERY ATTIC OR FURRED SPACE IN WHICH MECHANICAL EQUIPMENT IS INSTALLED SHALL BE ACCESSIBLE BY AN OPENING AND PASSAGEWAY AS LARGE AS THE LARGEST PIECE OF THE EQUIPMENT AND IN NO CASE LESS THAN 22 X 36 INCHES CONTINUOUS FROM THE OPENING TO THE EQUIPMENT AND ITS CONTROLS. THE OPENING TO THE PASSAGEWAY SHALL BE LOCATED NOT MORE THAN 20 FT. FROM THE EQUIPMENT MEASURED ALONG THE CENTERLINE OF SUCH PASSAGEWAY. EVERY PASSAGEWAY SHALL BE UNOBSTRUCTED AND SHALL HAVE SOLID CONTINUOUS FLOORING NOT LESS THAN 24 IN. WIDE FROM THE EQUIPMENT. ON THE CONTROL SIDE AND OTHER SIDES WHERE ACCESS IS NECESSARY FOR SERVICING THE EQUIPMENT. A LEVEL PLATFORM EXTENDING A MINIMUM 30 IN. FROM THE EDGE OF THE EQUIPMENT WITH A 36 IN. HIGH CLEAR WORKING SPACE SHALL BE PROVIDED. TOP OR BOTTOM SERVICE EQUIPMENT SHALL HAVE A FULL CLEARANCE ABOVE OR BELOW THE UNIT FOR COMPONENT REMOVAL.
- SUPPLY AIR SYSTEMS AND RETURN AIR SYSTEMS INSTALLED IN AN ATTIC, VENTILATED CRAWL SPACE OR OTHER NON-CONDITIONED AREA SHALL BE INSULATED.
- DO NOT SCALE DIRECTLY FROM THE HVAC DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONAL INFORMATION.
- MECHANICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT, FANS AND APPLIANCES A MINIMUM OF 10 FEET FROM A ROOF EDGE OR OPEN SIDE WHERE SUCH EDGE OR OPEN SIDE IS GREATER THAN 30 INCHES ABOVE A FLOOR, ROOF OR GRADE BELOW. GUARD RAILS A MINIMUM OF 42 INCHES ABOVE THE ELEVATED SURFACE SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND EXTENDED A MINIMUM OF 30 INCHES BEYOND EACH END OF SUCH EQUIPMENT, FAN OR APPLIANCE WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS ARE LOCATED WITHIN THE REQUIRED 10 FOOT CLEARANCE REQUIREMENT. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH DIAMETER SPHERE AND COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST ACCEPTED INTERNATIONAL BUILDING CODE.
- EVERY APPLIANCE LOCATED ON A ROOF OF A BUILDING SHALL BE INSTALLED ON A SUBSTANTIAL LEVEL PLATFORM. WHENEVER THE ROOF HAS A SLOPE 4:12 OR GREATER, A LEVEL WORKING PLATFORM NOT LESS THAN 30 IN. DEEP SHALL BE PROVIDED IN FRONT OF THE ENTIRE FIREBOX AND CONTROL SIDES OF THE APPLIANCE. ALL SIDES OF ANY WORKING PLATFORM FACING ANY PORTION OF THE ROOF EDGE BELOW THE PLATFORM SHALL BE PROTECTED BY SUBSTANTIAL RAILING. 42 IN. HIGH WITH VERTICAL RAILS NOT MORE THAN 21 IN. APART, EXCEPT THAT PARAPETS AT LEAST 24 IN. HIGH MAY BE UTILIZED IN LIEU OF RAILS OR GUARDS. REQUIRED WORKING PLATFORMS AND RAILINGS MAY BE OMITTED WHEN ACCESS TO THE EQUIPMENT IS THROUGH A REQUIRED ROOF SCUTTLE AND ALL OF THE FOLLOWING PROVISIONS ARE MET:
 - THE REQUIRED SCUTTLE IS LOCATED IMMEDIATELY ADJACENT TO THE CONTROL SIDE OF THE EQUIPMENT UNIT.
 - ALL CONTROLS, FILTERS, BURNERS, FANS, AND MOTORS ARE ACCESSIBLE FOR SERVICE AND REPAIR WITHIN 2 FT. OF THE EDGE OF THE EQUIPMENT PLATFORM ON THE SCUTTLE SIDE.
 - THE EQUIPMENT PLATFORM IS NOT MORE THAN 20 IN. ABOVE THE HIGH SIDE OF THE SCUTTLE OPENING.
 - A SUBSTANTIAL WORKING PLATFORM NOT LESS THAN 30 IN. BY 30 IN. SHALL BE PROVIDED DIRECTLY BELOW THE SCUTTLE AT A POINT NOT LESS THAN 30 IN. OR MORE THAN 32 IN. BELOW THE HIGH SIDE OF THE SCUTTLE OPENING.
 - SCUTTLES LOCATED ON OTHER THAN THE ROOF INCLINE SIDE OF THE EQUIPMENT UNIT SHALL HAVE THEIR LIDS OR TRAP DOORS HINGED ON THE LOW SIDE OF THE SCUTTLE.

HVAC KEYED NOTES

- MAINTAIN A MINIMUM OF 10 FT. CLEARANCE BETWEEN ALL EXHAUST OUTLETS, FLUES, PLUMBING VENTS AND ANY FRESH AIR INTAKES. IF 10 FT. CLEARANCE CAN NOT BE MAINTAINED EXHAUST OUTLET, FLUE, OR VENT MUST TERMINATE AT A POINT AT LEAST 36 IN. ABOVE HIGHEST FRESH AIR INTAKE WITHIN 10 FT. LIMIT.
- LOCATE THERMOSTAT, CO2 SENSOR OR HUMIDISTAT AS INDICATED WITH THE CENTER OF THE THERMOSTAT AT 48 IN. ABOVE FINISHED FLOOR. SEAL ALL THERMOSTAT CONDUITS AT TOP AND BOTTOM OF CONDUIT. PROVIDE INSULATED BACKING FOR MOUNTING THERMOSTATS.
- MECHANICAL CONTRACTOR SHALL INSTALL ALL EQUIPMENT, FANS AND APPLIANCES A MINIMUM OF 10 FEET FROM A ROOF EDGE OR OPEN SIDE WHERE SUCH EDGE OR OPEN SIDE IS GREATER THAN 30 INCHES ABOVE A FLOOR, ROOF OR GRADE BELOW. GUARD RAILS A MINIMUM OF 42 INCHES THE ELEVATED SURFACE SHALL BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR AND EXTENDED A MINIMUM OF 30 INCHES BEYOND EACH END OF SUCH EQUIPMENT, FAN OR APPLIANCE WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS ARE LOCATED WITHIN THE REQUIRED 10 FOOT CLEARANCE REQUIREMENT. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH DIAMETER SPHERE AND COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST ACCEPTED INTERNATIONAL BUILDING CODE.
- INSTALL 12" X 12" STATIONARY ICC-500 CERTIFIED LOUVER. INSTALL 0'-8" A.F.F.
- INSTALL 12" X 12" STATIONARY ICC-500 CERTIFIED LOUVER. INSTALL 0'-8" BELOW CONCRETE CEILING.
- 6" EXHAUST UP TO ROOF CAP. REFER TO 9/M3.1 FOR DETAIL.
- REMOTE PULL STATION FOR KITCHEN HOOD FIRE EXTINGUISHER KIT.
- PROVIDE BUILDING HVAC CONTROL PANEL EQUAL TO LG AC SMART CONTROLLER

MECHANICAL LEGEND

- ☒

SUPPLY DUCT SECTION

☒

RETURN OR EXHAUST DUCT SECTION

☒

CEILING SUPPLY GRILLE

☒

CEILING RETURN GRILLE

☒

CEILING EXHAUST GRILLE

☒

SIDEWALL SUPPLY OR RETURN GRILLE

①

SEE KEYED NOTES
- SUPPLY, RETURN, OR EXHAUST DUCT

VOLUME DAMPER

ROUND DUCT FIRE DAMPER (NUMBER DENOTES FIRE RATING OF 1FD WALL. EXAMPLE: 1FD = ONE HR. RATED WALL)

☒

FLEX DUCT CONNECTION MAXIMUM OF 5 FT.

FC-1

THERMOSTAT. MOUNT AT 48" A.F.F TO TOP (NUMBER DENOTES FAN COIL UNIT)

NOTES:
REFER TO SHEET M2.1 FOR HVAC PLANS.
REFER TO SHEET M3.1, M3.2 FOR HVAC DETAILS.
REFER TO SHEET M3.1 FOR HVAC SCHEDULES.

HSA

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 11834
ART P
4/23/24

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MBL

CITY OF MOUNTAIN HOME, AR

FIRE STATION #2

2030 HWY 62 E
MOUNTAIN HOME, AR 72653

AR 11834

STATE OF ARKANSAS

ID.	REVISION	DATE

MBL JOB NO.
230006

ISSUE DATE
04/23/2024

SHEET
CONTENTS

HVAC NOTES &
LEGEND

SHEET
M1.1

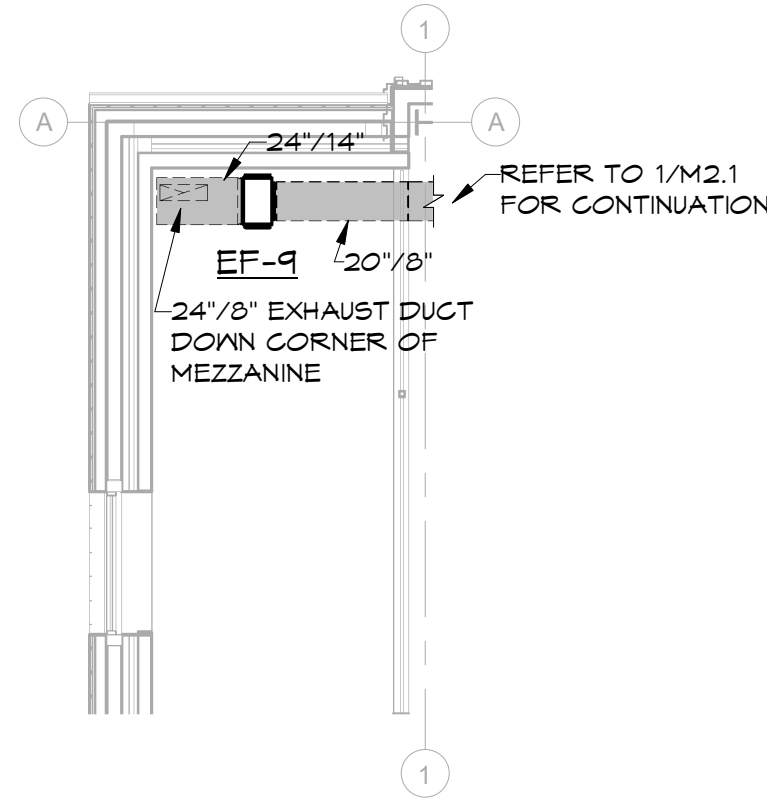
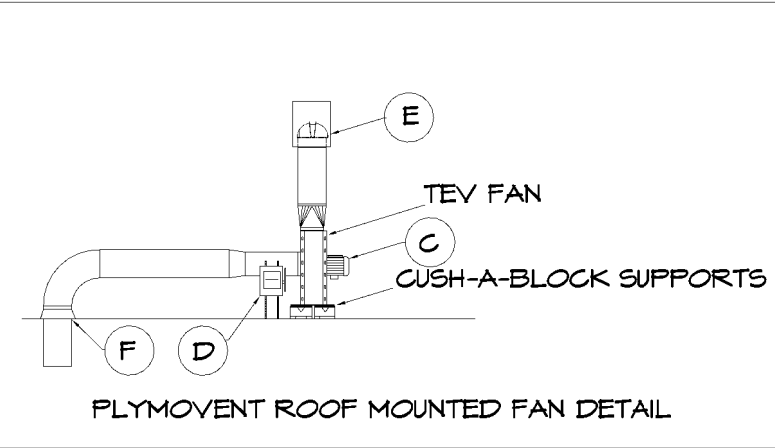
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NOTE:
MECHANICAL CONTRACTOR SHALL SUBMIT ENGINEERED PLANS
AND INSTALL REQUIRED SEISMIC ISOLATORS AND RESTRAINTS
FOR THE MECHANICAL SYSTEM SERVING A SEISMIC DESIGN
CATEGORY 'C'.

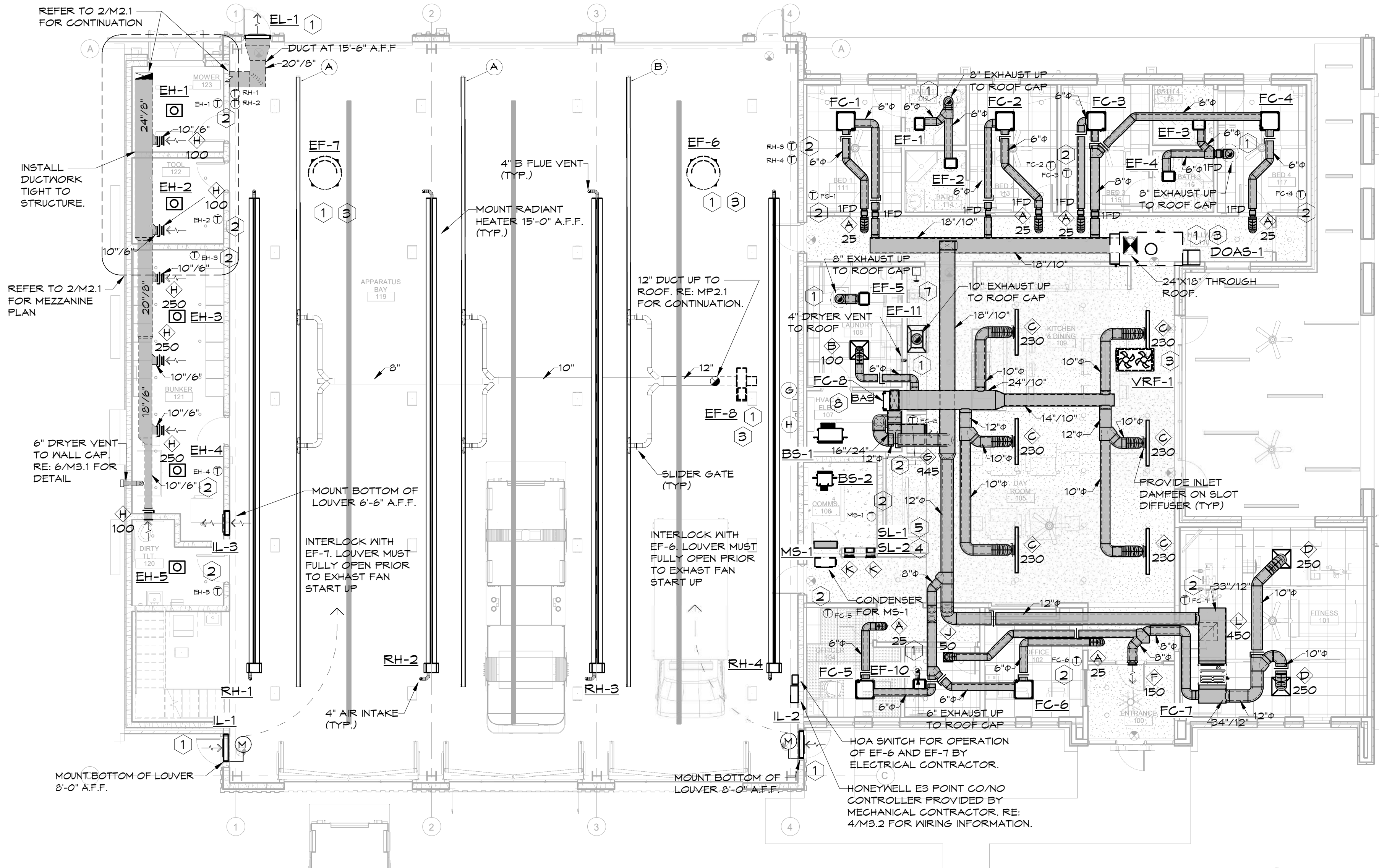
PLYMOVENT EQUIPMENT AND ACCESSORIES				
MARK	QTY	MODEL	DESCRIPTION	
A	2	MRP-101D	PLYMOVENT 10' MINI-RAIL PROFILE RAIL ASSEMBLIES W/ (1) HOSE DROP EA.	
B	1	MRP-101D	PLYMOVENT 10' MINI-RAIL PROFILE RAIL ASSEMBLIES W/ (2) HOSE DROPS EA.	
C	1	TEV-559	5 HP FAN WALL MOUNTED OUTSIDE STRUCTURE 208-230 / 3 PHASE	
D	1	30 AMP	NON-FUSED ELECTRICAL DISCONNECT - 13 AMPS REQUIRED	
E	1	RC-12	VERTICAL FAN STACK WITH BACK DRAFT DAMPER AND WEATHER COVER	
F	1	CD-10	12" DUCT PENETRATION BY ROOFING CONTRACTOR	
G	1	OS-3	PLYMOVENT CENTRAL CONTROL PANEL 208-230 / 3 PHASE	
H	1	30 AMP	FUSED ELECTRICAL DISCONNECT - 13 AMPS REQUIRED	

PlymoVent Required Clearances:

- 1) Hanging height is typically at 12' to 13' AFF.
- 2) The distance from the end of the track to the entry and exit doors is typically 5' to 7' (10' for folding doors).
- 3) The distance from the end of the rail to the entry and exit doors is typically 5' to 7' (10' for folding doors).
- 4) The track and rail systems are typically mounted 18" to 24" from the passenger side of the apparatus.
- 5) The duct is typically hung 14' to 16' AFF.

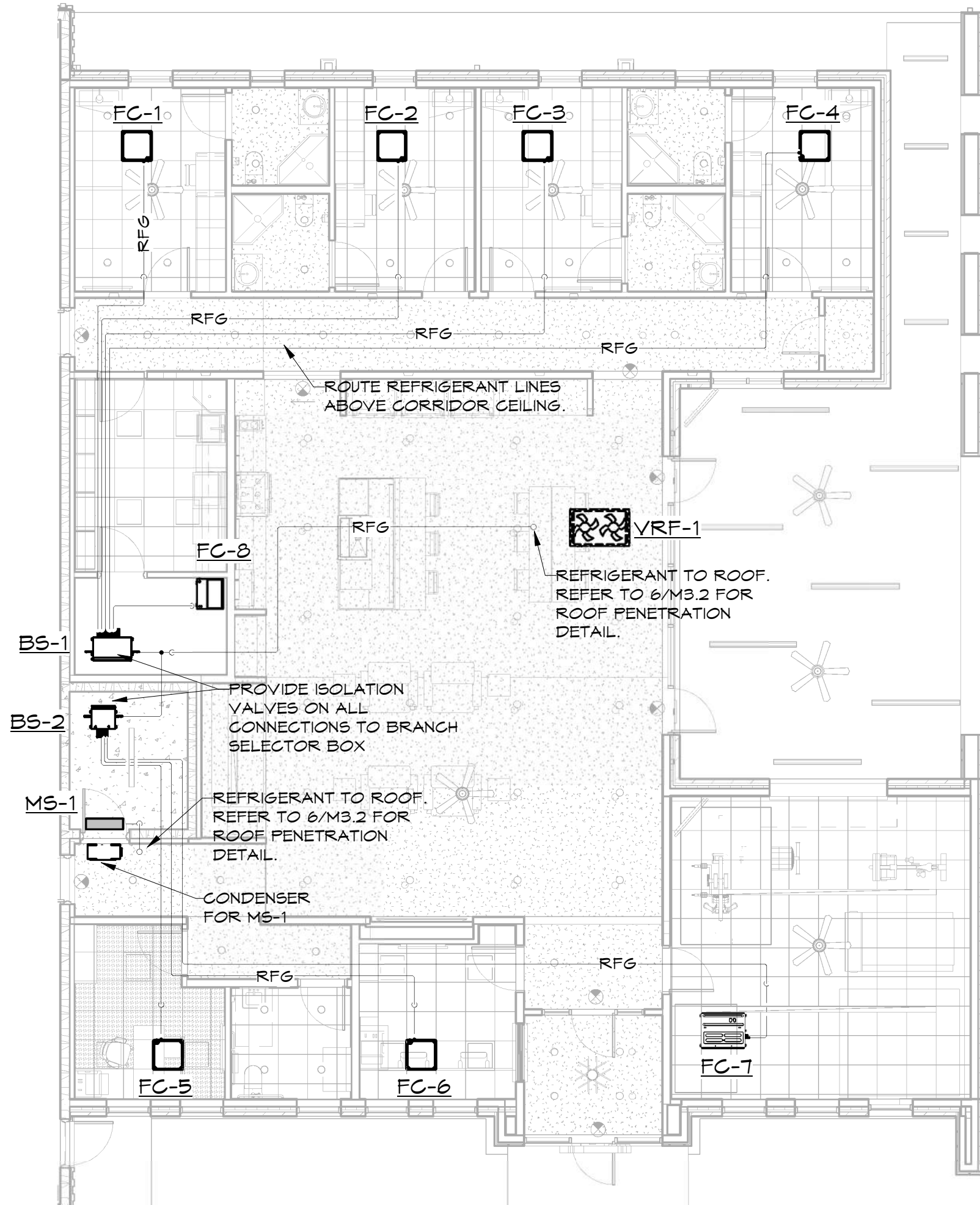


NOTE:
ALL EXPOSED EXHAUST DUCTWORK
TO BE INSULATED AND MADE OF
PAINT LOCK METAL.



1 HVAC PLAN
1/8" = 1'-0"

2 HVAC MEZZANINE PLAN
1/8" = 1'-0"



3 MECHANICAL PIPING PLAN
1/8" = 1'-0"

NOTES:
REFER TO SHEET M1.1 FOR HVAC LEGEND, GENERAL AND KEYED NOTES.
REFER TO SHEET M3.1, M3.2 FOR HVAC DETAILS.
REFER TO SHEET M5.1 FOR HVAC SCHEDULES.



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CITY OF MOUNTAIN HOME, AR
FIRE STATION #2
2030 HWY 62 E
MOUNTAIN HOME, AR 72653



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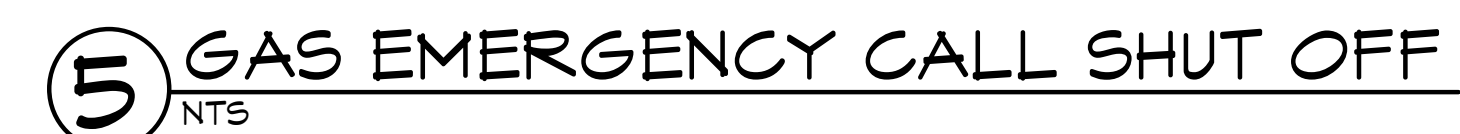
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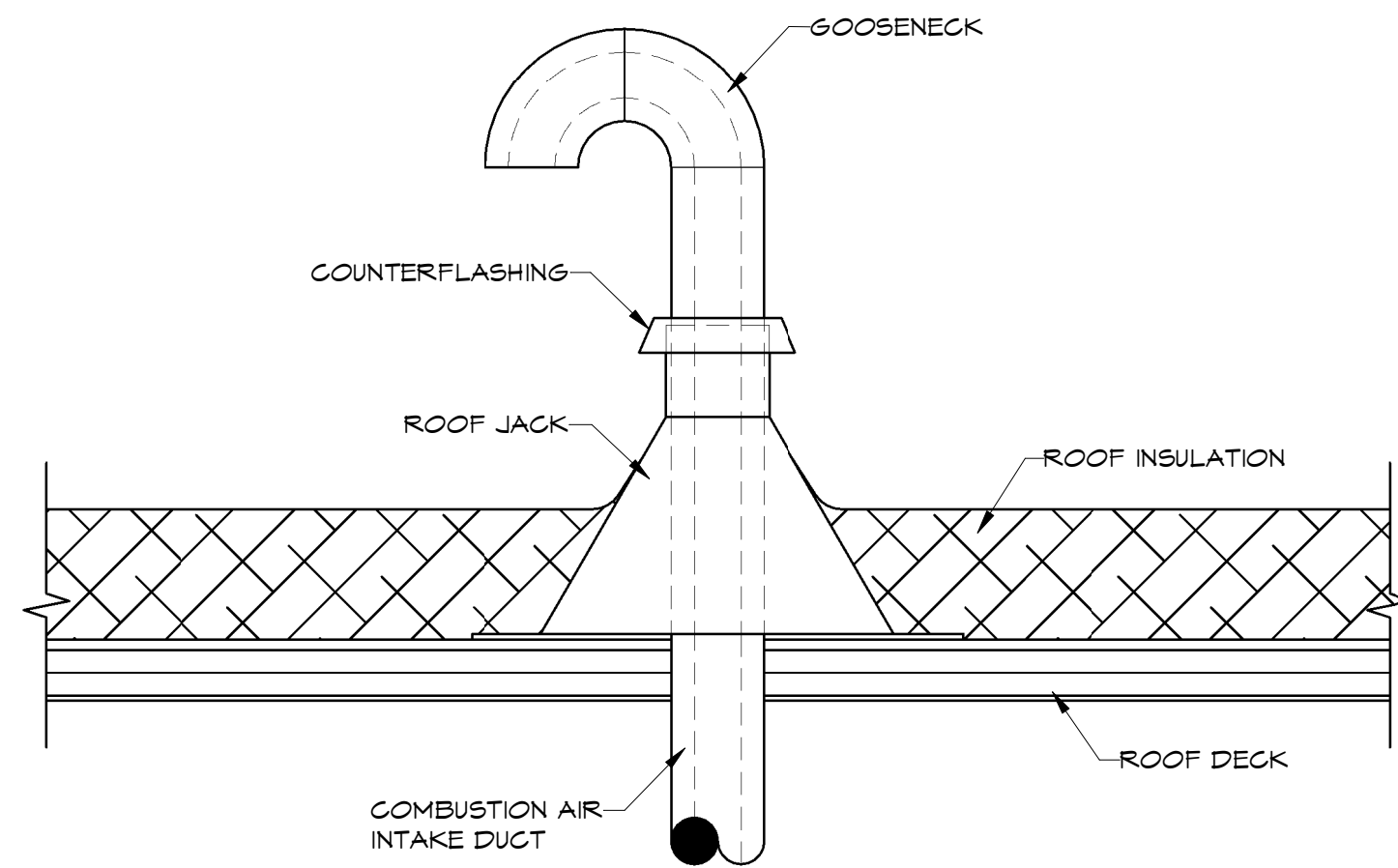
ISSUE DATE
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SHEET
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HVAC PLAN

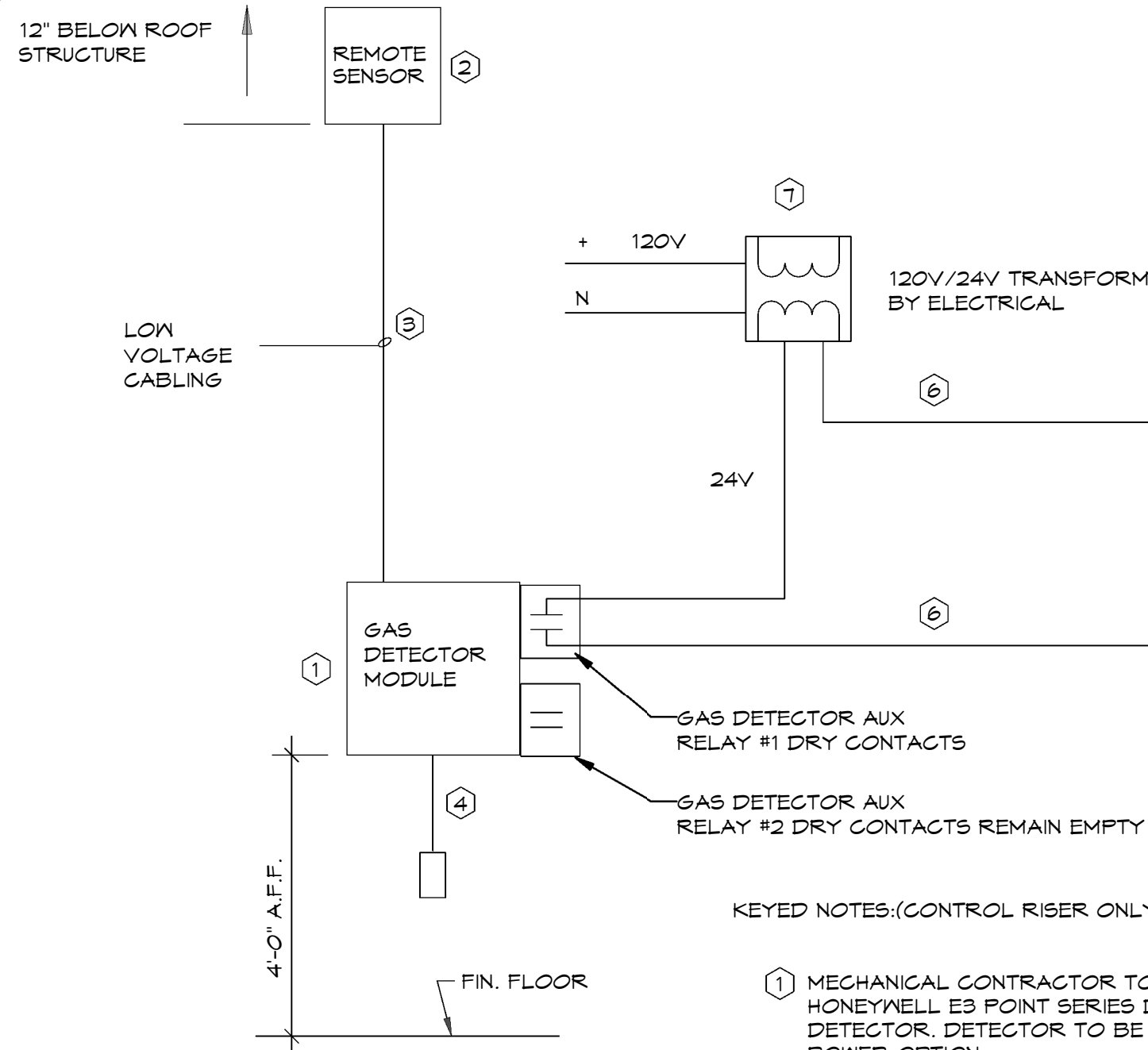
SHEET
M2.1

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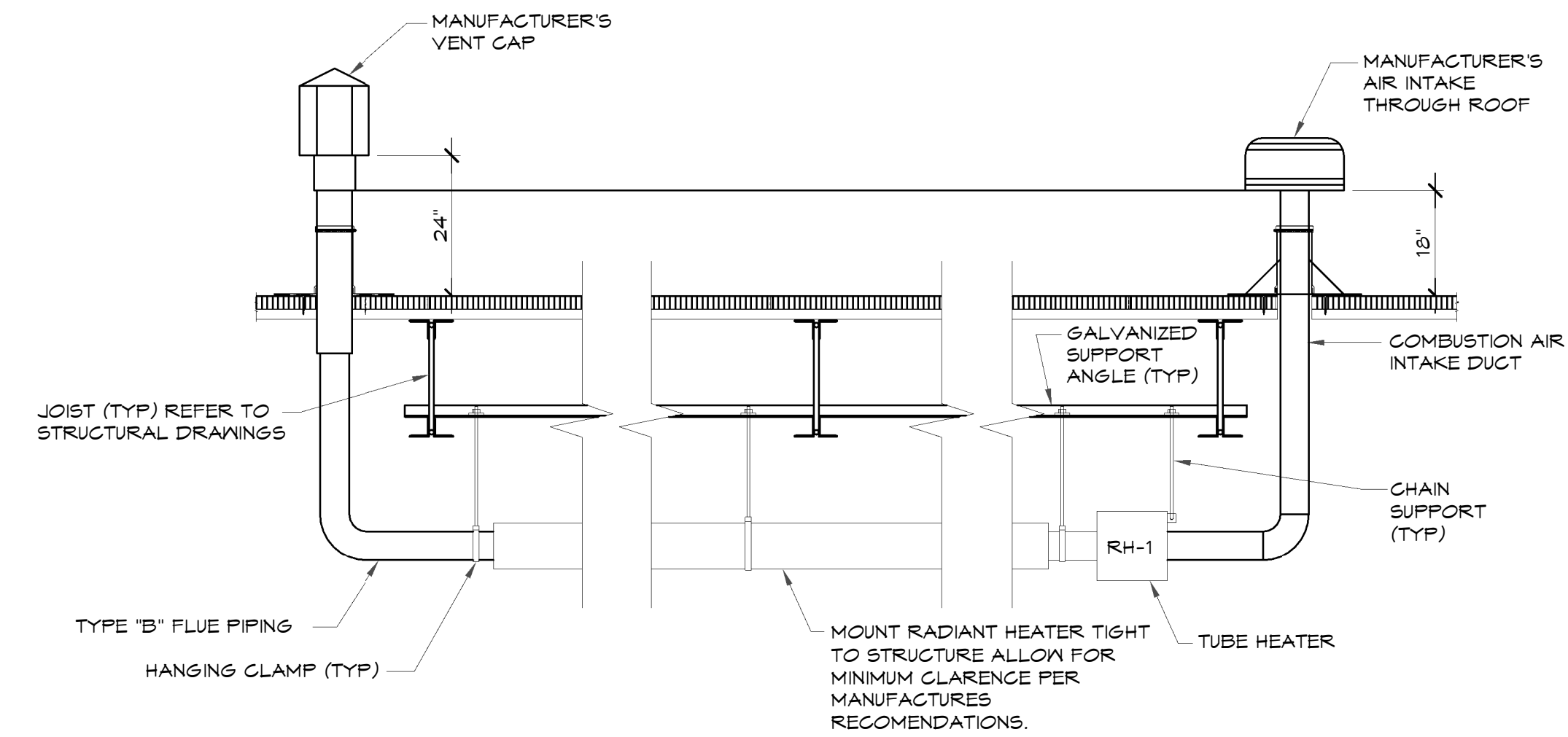




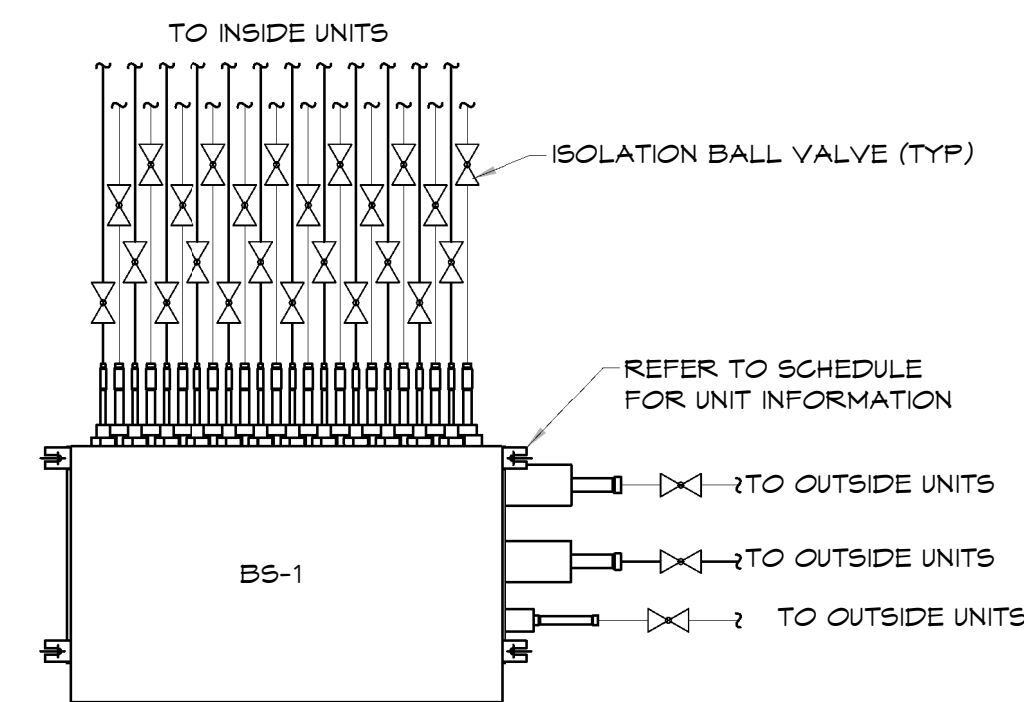
1 DRYER VENT GOOSENECK DETAIL
NTS



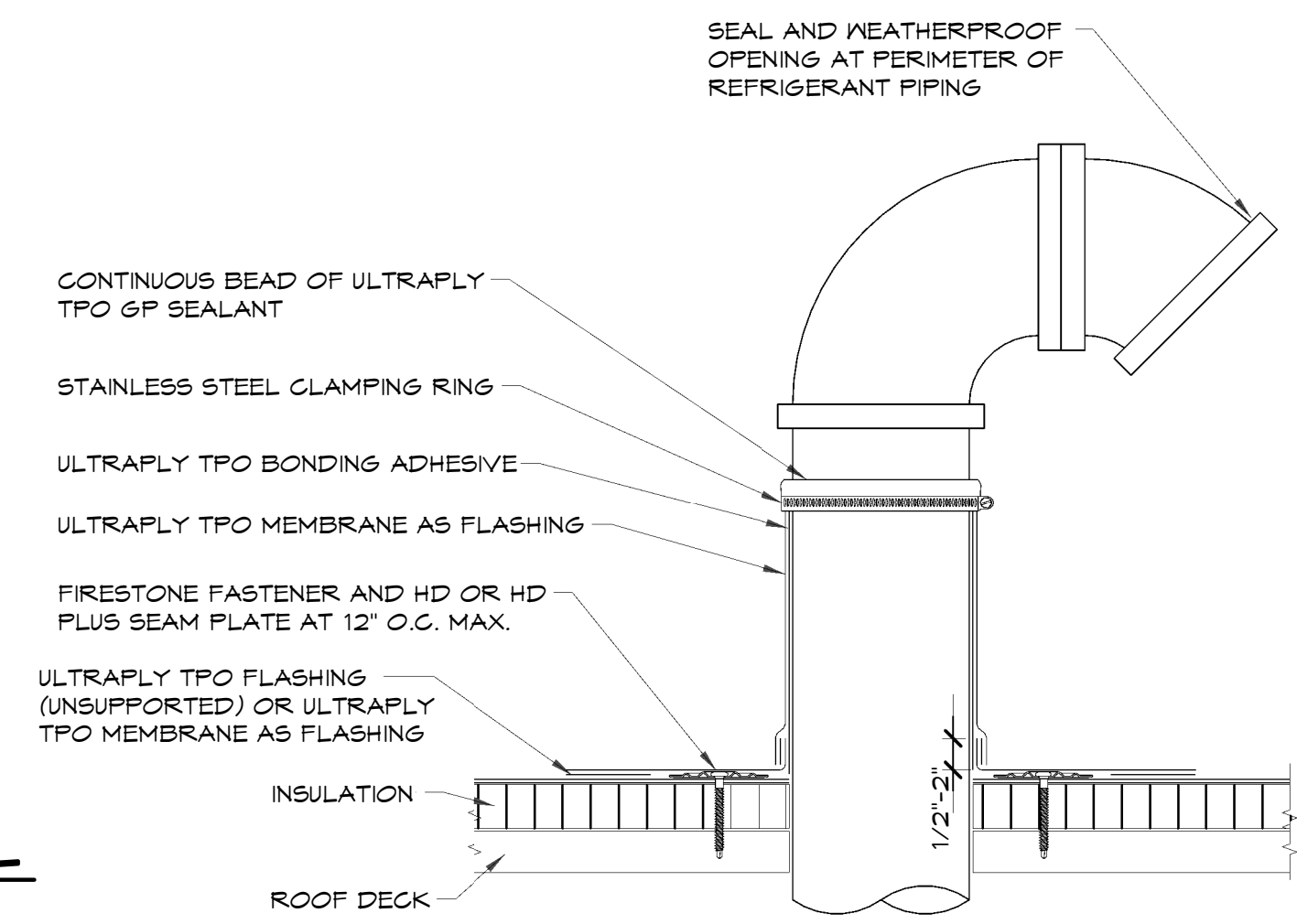
2 VRF CONDENSING UNIT ROOF CURB DETAIL
N.T.S.



3 RADIANT TUBE HEATER DETAIL
NTS

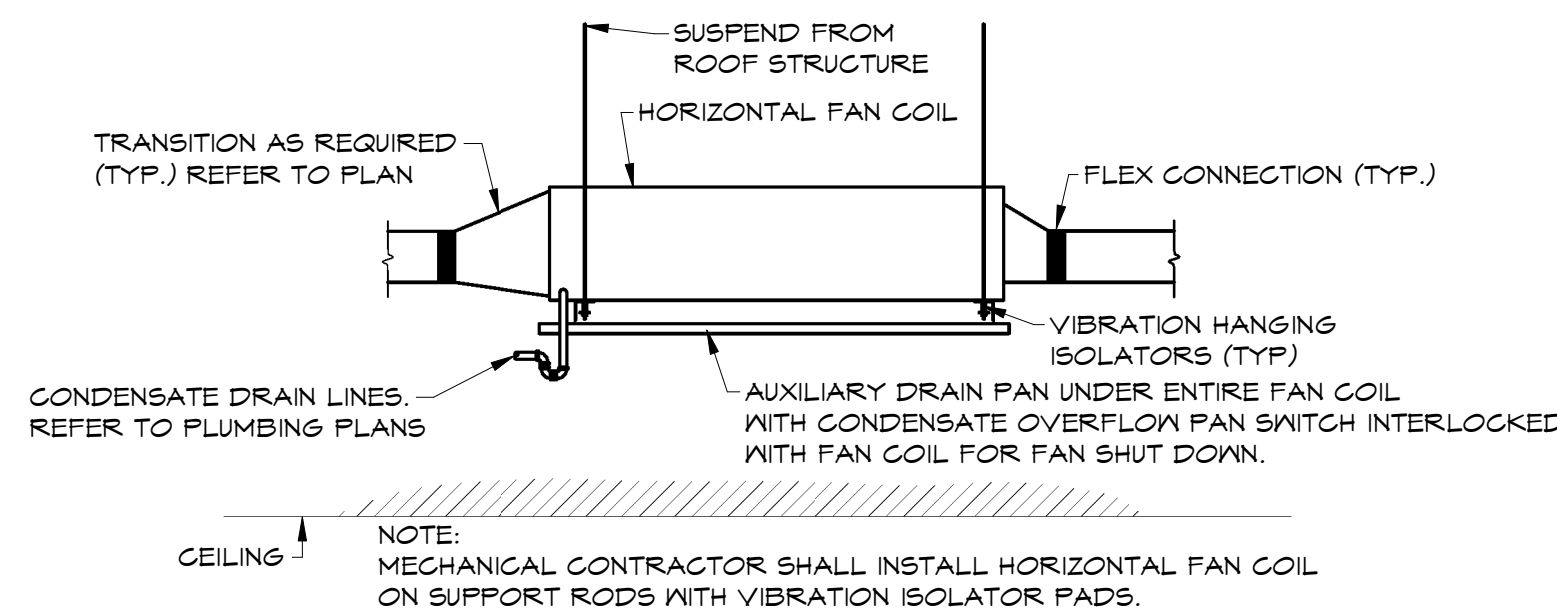


4 BRANCH SELECTOR BOX DETAIL
NTS

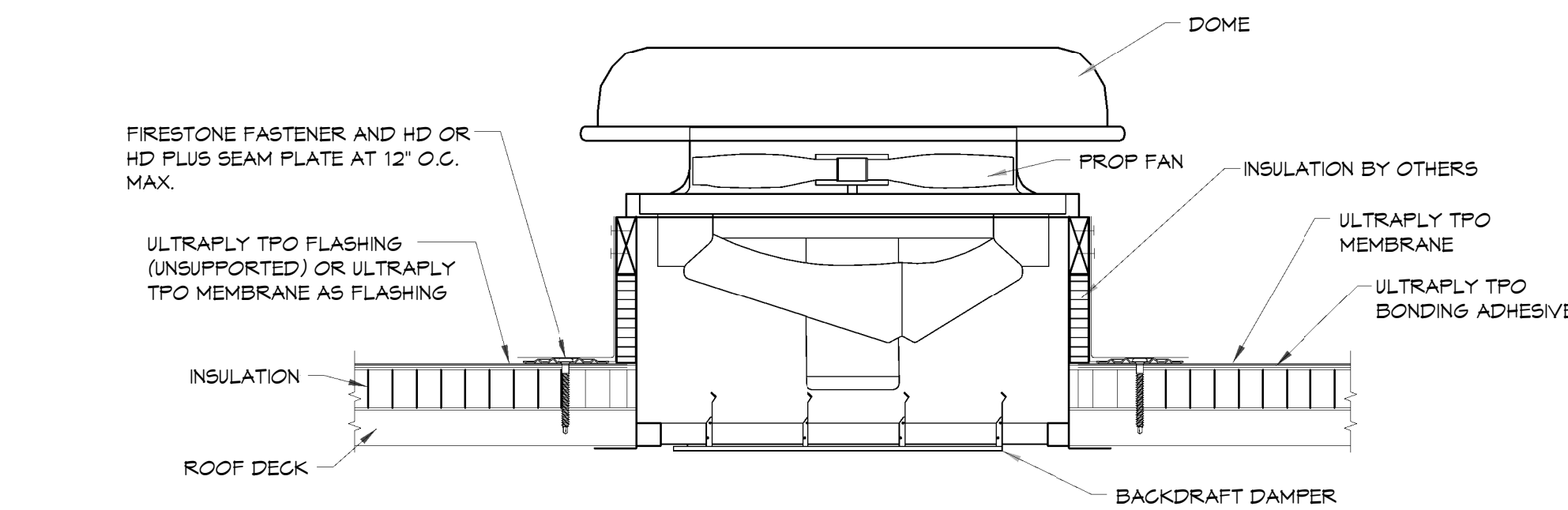


5 REFRIGERENT PENETRATION DETAIL
NTS

4 GAS DETECTOR WIRING SCHEMATIC
NTS



8 HORIZONTAL AIR HANDLER
1/8" = 1'-0"



7 ROOFTOP UNIT CURB DETAIL
NTS

9 ROOF MOUNT EXHAUST FAN
NTS

NOTES:
REFER TO SHEET M1.1 FOR HVAC LEGEND,
GENERAL AND KEYED NOTES.
REFER TO SHEET M2.1 FOR HVAC PLANS.
REFER TO SHEET M3.1 FOR HVAC SCHEDULES.

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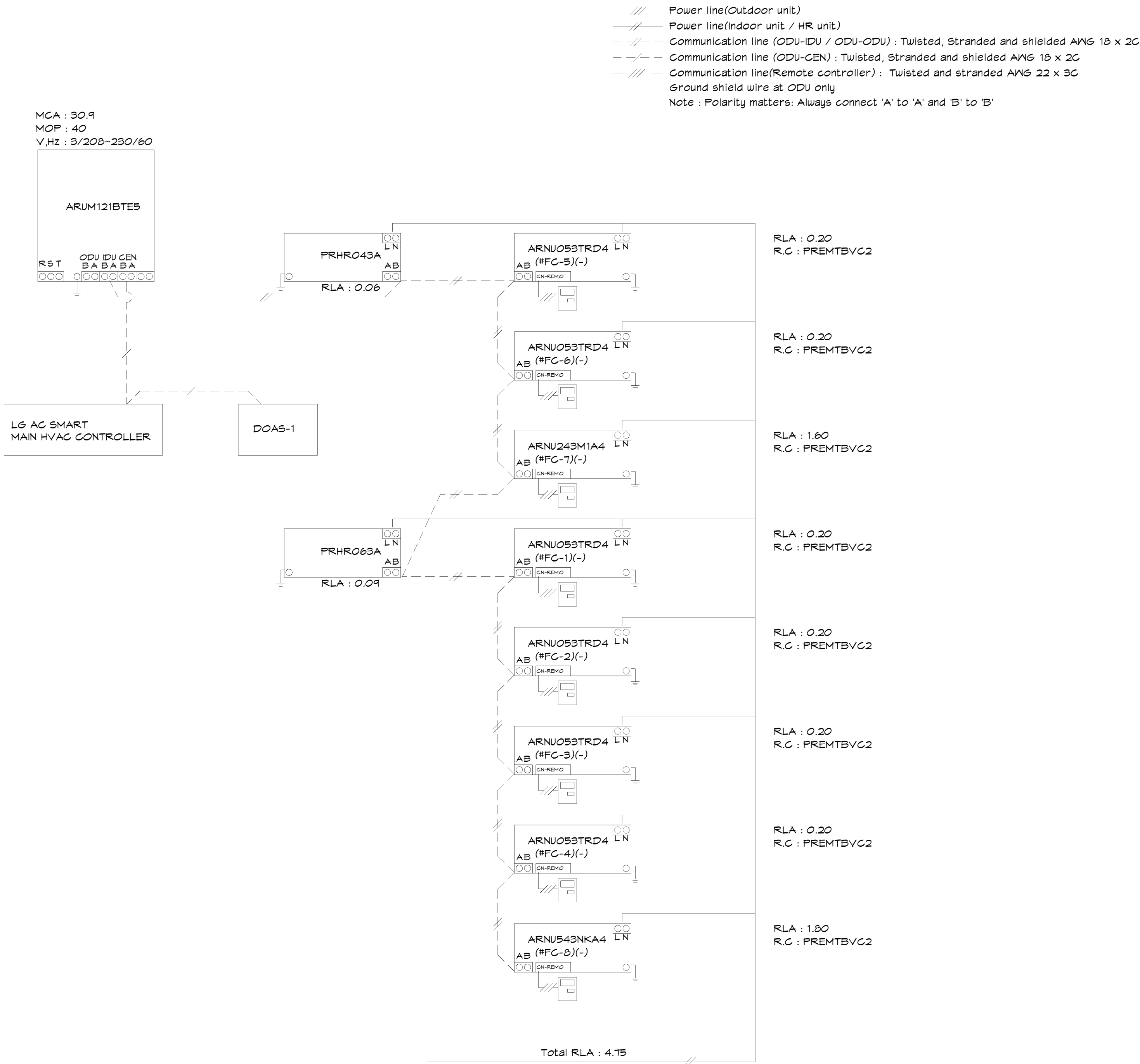
ISSUE DATE
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SHEET CONTENTS
HVAC DETAILS

SHEET
M3.2

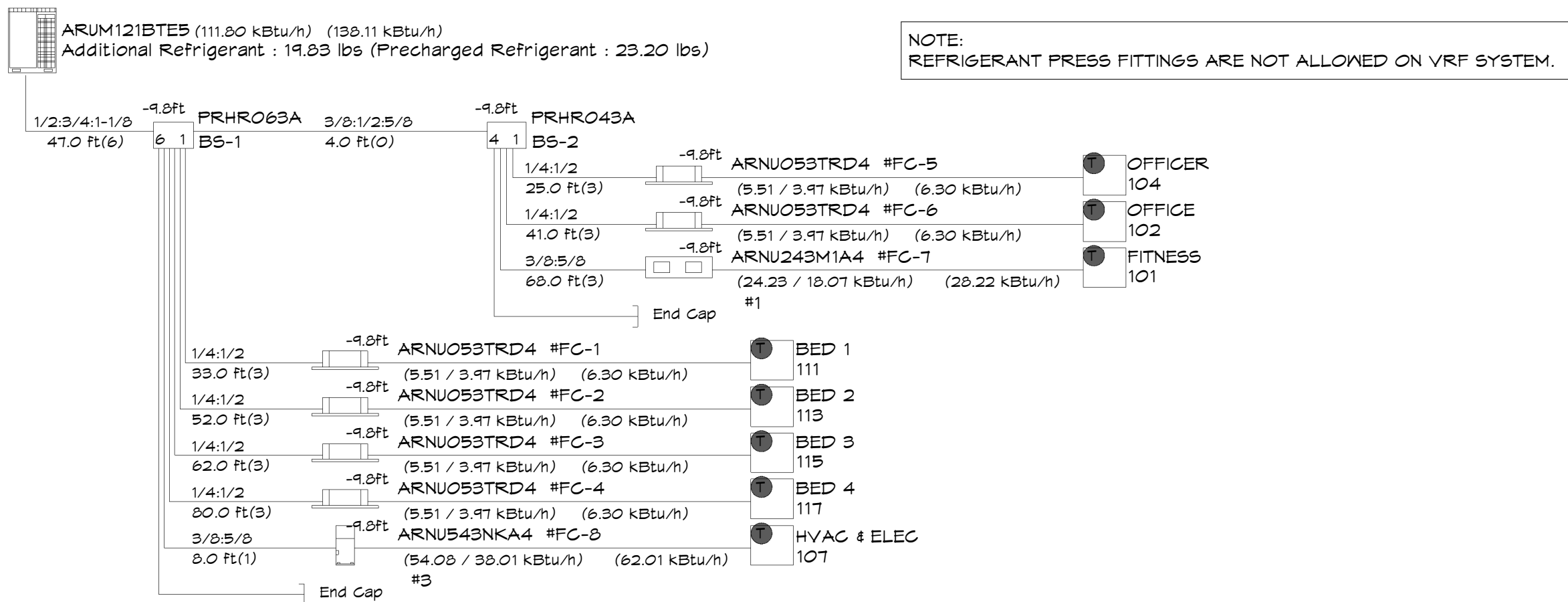
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Note :
Power wiring, breaker size, and disconnects should follow local code and NEC.
Multi-frame outdoor units require a separate power connection for each frame.
Refer to the most up-to-date submittal sheets for applicable electrical data.



1 VRF WIRING DIAGRAM

NTS



2 VRF PIPING DIAGRAM

NTS



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SHEET
CONTENTS

HVAC DETAILS

SHEET
M3.3

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VARIABLE REFRIGERANT FLOW UNIT WITH HEAT RECOVERY								
MARK	MFG.	MODEL	COOLING TMBH	HEAT TMBH	MCA	MOP	VOLT/PH/HZ	REMARKS / ACCESSORIES
VRF-1	LG	ARUM121BTE5	119.7	135	30.9	40	208-230 / 3 / 60	1 THRU 17

REMARKS/ACCESSORIES:

- | | |
|---|---|
| 1. VARIABLE REFRIGERANT VOLUME INVERTER HEAT RECOVERY SYSTEM FOR SIMULTANEOUS HEATING AND COOLING. | 10. MANUFACTURERS SUBMITTAL MUST INCLUDE REFRIGERANT PIPING DIAGRAM WITH PIPE DIAMETERS, LENGTHS, AND REFRIGERANT VOLUME. |
| 2. REFRIGERANT LINES SHALL BE SIZED AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS. INSULATE ALL REFRIGERANT LINES WITH 3/4" INCH THICK ARMAFLEX OR EQUAL. | 11. SUBSTITUTES MANUFACTURER SHALL BE RESPONSIBLE FOR ADDITIONAL PIPING AND REFRIGERANT. |
| 3. BOECOTER MEZZANINE ARE TO BE LOCATED ABOVE LAUNDRY. | 12. CONTRACTOR TO VERIFY PIPING DIMENSIONS. |
| 4. PROVIDE AGISO OR EQUIVALENT COLOR TOUCH SCREEN CONTROL PANEL FOR SYSTEM INTERLOCK. | 13. INSTALLING CONTRACTOR MUST HAVE SUFFICIENTLY COMPLETED MANUFACTURERS CERTIFIED INSTALLATION CLASS WITHIN 30 DAYS OF 36 MONTHS. |
| 5. SYSTEM RATING DATA BASED ON DESIGN AMBIENT CONDITIONS FOR COOLING AND FOR HEATING (95F/7F). | 14. CONTRACTOR TO SEPARATELY FURNISH AND INSTALL INSULATION FOR REFRIGERANT PIPING. |
| 6. SUBMITTED PERFORMANCE DATA MUST BE FULLY DE-RATED FOR ALL COMPONENTS AND ACCESSORIES, INCLUDING SEPARATION OF UNIT FROM SEPARATION RATIO, DESIGN. | 15. MANUFACTURER MUST PROVIDE 10 YEARS PARTS WARRANTY ON ALL FCUS, CONDENSING UNITS, MODE CHANGEOVER DEVICES AND ZONE CONTROLS. WARRANTY CONDITIONS MUST BE CLARIFIED DURING SUBMITTAL PHASE. |
| 7. CONDENSING UNITS MUST HAVE FULLY MODULATING INVERTER COMPRESSORS. | 16. PROVIDE FACTORY HALL GUARDS. |
| 8. NON - VFD COMPRESSORS(INCLUDING DIGITAL SCROLL COMPRESSORS AND COMPRESSORS WITH HOT GAS BYPASS) WILL NOT BE PERMITTED. | 17. PROVIDE FACTORY VIBRATION ISOLATORS. |
| 9. CONDENSING UNITS MUST HAVE HAVE AUTO CHANGEOVER FUNCTIONS | |

VRV FAN COIL SCHEDULE										
MARK	MFG.	MODEL	CFM	COOLING MBH	HEATING MBH	OUTSIDE AIR (CFM)	ELECTRICAL			REMARKS / ACCESSORIES
							M.C.A.	M.O.P.	VLT / PH / HZ	
FC-1	L6	ARNUC53TRD4	265	5.5	6.3	20	0.25	15	200-230 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC-2	L6	ARNUC53TRD4	265	5.5	6.3	20	0.25	15	200-230 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC-3	L6	ARNUC53TRD4	265	5.5	6.3	20	0.25	15	200-230 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC-4	L6	ARNUC53TRD4	265	5.5	6.3	20	0.25	15	200-230 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC-5	L6	ARNUC53TRD4	265	5.5	6.3	20	0.25	15	200-230 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC-6	L6	ARNUC53TRD4	265	5.5	6.3	20	0.25	15	200-230 / 1 / 60	1, 2, 3, 4, 5, 6, 7, 8
FC-7	L6	ARNU243M1A4	700	24.2	27.3	250	1.6	15	200-230 / 1 / 60	1, 2, 3, 4, 5, 6, 7
FC-8	L6	ARNU543NKA4	1475	54	60	250	1.4	15	200-230 / 1 / 60	1, 2, 3, 4, 5, 6, 9

REMARKS/ACCESSORIES

1. INDOOR UNIT SELECTION SHOULD BE MADE USING ACTUAL CAPACITIES, NOT NOMINAL CAPACITIES OR MODEL NUMBERS, ALL COOLING AND HEATING CAPACITIES AND AIRFLOWS LISTED ABOVE ARE ABSOLUTE MINIMUMS. SUBSTITUTIONS MUST MEET OR EXCEED EACH VALUE.
2. PROVIDE FACTORY CONDENSATE PUMPS FOR ALL UNITS WITH INTEGRAL FLOAT SWITCH FOR UNIT SHUT DOWN IN EVENT OF PUMP FAILURE.
3. PROVIDE UNIT WITH HURD BACKFLOW REMOTE TEMPER (MODE, ON/OFF, FAN SPEED, TEMP ADJUSTMENT, CANCEL AND PROGRAM MENU).
4. PROVIDE WITH STANDARD LIMITED 10 YEAR WARRANTY FOR ALL PARTS.
5. PROVIDE WITH FACTORY INSTALLED LEV (ELECTRONIC LIQUID EXPANSION VALVE)
6. START UP COMPANY TO HAVE COMPLETED SERVICE COURSE BY FACTORY AT FACTORY AUTHORIZED LOCATION.
7. PROVIDE WASHABLE FILTER.
8. CASSETTE MUST HAVE OUTSIDE AIR AND AUXILIARY SUPPLY AIR KNOCKOUTS.
9. PROVIDE LABOR SAVING VERTICAL FAN COIL STAND WITH FILTER RACK WITH 2" FARR 30/30 FILTERS.

AIR DISTRIBUTION SCHEDULE								
MARK	CFM	NECK SIZE	MFG.	MODEL	TYPE	FINISH	FRAME	REMARKS/ ACCESSORIES
A	25	6"Ø	TITUS	250	SUPPLY	WHITE	SURFACE	1, 2, 3
B	100	6"Ø	TITUS	TMS	SUPPLY	WHITE	LAY-IN	1, 2
C	225-230	10"	TITUS	TBDI-80	SLOT DIFFUSER	WHITE	SURFACE	4
D	250	10"Ø	TITUS	TMS	4-WAY SUPPLY	WHITE	LAY-IN	1, 2
F	150	10" X 6"	TITUS	212RL	SIDENALL SUPPLY	WHITE	SURFACE	1, 5, 6
G	945	24" X 16"	TITUS	355RL	RETURN	WHITE	LAY-IN	1, 5
H	100-250	10" X 6"	TITUS	50F	EXHAUST	WHITE	SURFACE	1, 5
J	50-225	6"Ø	TITUS	12 X 12 TMS	SUPPLY	WHITE	LAY-IN	1, 2
K	500	12" X 12"	TITUS	355RL	TRANSFER	WHITE	SURFACE	1
L	200-1200	14" X 14"	TITUS	24X24 355RL	RETURN	WHITE	LAY-IN	1

REMARKS/ACCESSORIES

1. STEEL CONSTRUCTION.
2. PROVIDE INSULATED SQUARE TO ROUND GRILLE CONNECTIONS.
3. PROVIDE FACTORY RAPID-MOUNT FRAME FOR SURFACE MOUNTING.
4. PROVIDE 60" LONG, 1 INCH WIDE - 2 SLOT, SLOT DIFFUSER, WITH INLET DAMPER OPERABLE BY FACE OF GRILLE.
5. COORDINATE WITH ARCHITECT ON ALL FINISHES OF GRILLES/DIFFUSERS.
6. PROVIDE OPPOSED BLADE DAMPERS

LOUVER SCHEDULE								
MARK	CFM	NECK SIZE	MF6	MODEL	TYPE	FINISH	FRAME	ACCESSORIES
EL-1	1050	36"x24"	GREENHECK	ESD-635	EXHAUST LOUVER	PRIMED	FLANGED	1, 2
IL-1	6000	36"x64"	GREENHECK	EAC-601	TRANSFER LOUVER	PRIMED	FLANGED	1, 2, 3, 4, 5
IL-2	6000	36"x64"	GREENHECK	EAC-601	TRANSFER LOUVER	PRIMED	FLANGED	1, 2, 3, 4, 5
SL-1	-	32"x16"	GREENHECK	ESD-601	TRANSFER LOUVER	PRIMED	FLANGED	1, 2
SL-1	-	12"x12"	GREENHECK	APL-501	STORM LOUVER	PRIMED	FLANGED	1, 6
SL-2	-	12"x12"	GREENHECK	APL-501	STORM LOUVER	PRIMED	FLANGED	1, 6

REMARKS/ACCESSORIES

1. ALUMINUM CONSTRUCTION
2. PROVIDE BIRD SCREEN
3. PROVIDE BELIMO AF-120 120 VOLT TWO POSITION SPRING RETURN ACTUATOR AND LINKAGE.
4. MOTORIZED DAMPER TO INTERLOCK WITH ASSOCIATED EXHAUST FANS AS INDICATED ON PLANS.
5. PROVIDE 110V ACTIVATION WITH AUXILIARY CONTACTS. REFER TO DETAIL 4/M3.2 FOR LOUVER, FAN, AND GAS DETECTION WIRING SCHEMATIC
6. PROVIDE ICC-500 RATED STORM LOUVER.

DEDICATED OUTSIDE AIR UNIT SCHEDULE																				
MARK	MFG.	MODEL	AIRFLOW			COOLING					HEATING					ELECTRICAL			UNIT WEIGHT (LBS.)	REMARKS / ACCESSORIES
			SUPP. CFM	SUPP. MOTOR HP	ESP. IN. WG	TMBH	SMBH	EAT (°Fdb / °Fwb)	LAT (°Fdb / °Fwb)	INPUT (MBH)	OUTPUT (MBH)	AFUE %	EAT (°F)	LAT (°F)	M.C.A.	M.O.P.	VOLT / PH / HZ			
DOAS-1	GREENHECK	RV-10-5	900	3/4	1.4	66.6	40	95.0 / 75.0	53.6 / 53.7	100	81	81	0	83.3	25	35	208 / 3 / 60	1300	1 THRU 11	

REMARKS/ACCESSORIES

1. PROVIDE UNIT WITH INVERTER DRIVEN LEAD COMPRESSOR.
2. PROVIDE WITH 5:1 MODULATING NATURAL GAS HEATING WITH 409 STAINLESS STEEL HEAT EXCHANGER.
3. PROVIDE WITH HOT GAS REHEAT.
4. PROVIDE WITH FACTORY NON FUSED DISCONNECT AND NON POWERED GFCI OUTLET.
5. PROVIDE WITH DIRECT DRIVE PLENUM SUPPLY FAN.
6. PROVIDE WITH 100% OUTDOOR AIR UNIT.
7. PROVIDE WITH 2" MERV 8 FILTERS PRIOR TO COIL.
8. PROVIDE WITH FACTORY DOUBLE WALL CONSTRUCTIONS AND HINGED ACCESS DOORS.
9. PROVIDE WITH FACTORY STAINLESS STEEL SLOPED DRAIN PANS ON ALL COIL SECTIONS.
10. PROVIDE FACTORY MICROPROCESS CONTROLS AND BACNET MSN. CONTROLS SHALL BE CAPABLE OF STAND ALONE OPERATION WITHOUT CONNECTION TO A GAS SUPPLIER SHALL PROVIDE TRAINING TO ONE (1) INDIVIDUAL DAY PROGRAMMING.
11. PROVIDE 14" ROOF CURB.

EXHAUST FAN SCHEDULE										
MARK	MFG.	MODEL	CFM	ESP. IN. WC	H.P./WATTS	VOLT/PH/HZ	SONE	RPM	WEIGHT (LBS.)	REMARKS / ACCESSORIES
EF-1	GREENHECK	SP-B110	75	0.5	80 W	115 / 1 / 60	3.0	950	25	1, 2, 3, 4, 5, 19
EF-2	GREENHECK	SP-B110	75	0.5	80 W	115 / 1 / 60	3.0	950	25	1, 2, 3, 4, 5, 19
EF-3	GREENHECK	SP-B110	75	0.5	80 W	115 / 1 / 60	3.0	950	25	1, 2, 3, 4, 5, 19
EF-4	GREENHECK	SP-B110	75	0.5	80 W	115 / 1 / 60	3.0	950	25	1, 2, 3, 4, 5, 19
EF-5	GREENHECK	SP-A200	75	0.5	47W	115 / 1 / 60	4.5	1080	25	1, 2, 3, 4, 5, 19
EF-6	GREENHECK	G-240-G	6000	0.5	2 H.P.	230 / 1 / 60	17.9	860	194	2, 5, 6, 7, 14
EF-7	GREENHECK	G-240-G	6000	0.5	2 H.P.	230 / 1 / 60	17.9	860	194	2, 5, 6, 7, 14
EF-8	FLYMOVENT	TEV-559	-	-	5 H.P.	208-230 / 3 / 60	-	1	250	20
EF-9	GREENHECK	GSP-A1300	1050	0.5	765 W	115 / 1 / 60	2.5	1310	75	2, 3, 5, 8, 18
EF-10	GREENHECK	SP-B110	75	0.5	80 W	115 / 1 / 60	3.0	950	25	1, 2, 3, 4, 5, 19
EF-11	FABER	INFL362255NB-N	1200	-	300 W	115 / 1 / 60	7.0	-	-	9, 11, 13, 14, 16, 17

REMARKS/ACCESSORIES

1. PROVIDE FACTORY CEILING GRILLE.
2. PROVIDE FAN SPEED CONTROLLER.
3. INTERLOCK EXHAUST FAN WITH LIGHT SWITCH BY ELECTRICAL CONTRACTOR.
4. PROVIDE FACTORY CURB MOUNTED ROOF CAP.
5. PROVIDE FACTORY BACK DRAFT DAMPER.
6. INTERLOCK FAN WITH HOA WALL SWITCH BY ELECTRICAL CONTRACTOR.
7. ALUMINUM CONSTRUCTION.
8. PROVIDE FACTORY CONTROLLER TO ADJUST FAN TO MEET CFM SPECIFIED BY EQUIPMENT MANUFACTURER.
9. OPERATED BY INDIVIDUAL SWITCH ON HOOD. WIRED BY ELECTRICAL CONTRACTOR.
10. PROVIDE INLINE DRYER EXHAUST FAN OPERATED BY PRESSURE SWITCH (WIRED BY ELEC.)
11. KITCHEN HOOD UNIT DRAWS 4.3 APM.
12. REFER TO ELECTRICAL PLANS FOR ADDITIONAL FAN OPERATION INFORMATION.
13. PROVIDE INTERNAL BLOWER.
14. PROVIDE ROOF CURB AND CAP. (FIELD VERIFY PITCH)
15. WIRE EXHAUST FAN FOR CONTINUOUS OPERATION.
16. PROVIDE KITCHENSFASE KSC 001 FIRE SUPPRESSION SYSTEM LOCATED 12" BELOW KITCHEN MILLWORK UP TO 12" BELOW CEILING. SYSTEM MUST BE COMPATIBLE WITH #48" RANGE RE4Y/M31 FOR DETAILS.
17. #48"X22" BLOWER MODEL # B12020 WITH LED LIGHTS AND STAINLESS GREASE BAFFLES.
18. PROVIDE IN SHEAR VIBRATION ISOLATORS.
19. PROVIDE CEILING MOUNTED VIBRATION ISOLATORS.

ELECTRIC HEATER SCHEDULE							
MARK	MFG	MODEL	HEATING			VOLT / PH / HZ	ACCESSORIES
			INPUT KW	OUTPUT BTU	FUEL TYPE		
EH-1	MARKEL	HF3396D-RP	3	10,200	ELECTRIC	208 / 1 / 60	1, 2, 3, 4, 5
EH-2	MARKEL	HF3396D-RP	3	10,200	ELECTRIC	208 / 1 / 60	1, 2, 3, 4, 5
EH-3	MARKEL	HF3396D-RP	3	10,200	ELECTRIC	208 / 1 / 60	1, 2, 3, 4, 5
EH-4	MARKEL	HF3396D-RP	3	10,200	ELECTRIC	208 / 1 / 60	1, 2, 3, 4, 5
EH-5	MARKEL	HF3396D-RP	3	10,200	ELECTRIC	208 / 1 / 60	1, 2, 3, 4, 5

REMARKS/ACCESSORIES

1. PROVIDE WIRED WALL MOUNTED THERMOSTAT
2. PROVIDE BUILT IN THERMOSTAT WITH TAMPER PROOF THERMOSTAT COVER
3. UNIT TO BE SURFACE MOUNTED TO EXPOSED STRUCTURE.
4. PROVIDE SURFACE MOUNTING ADAPTER.
5. PROVIDE FACTORY DISCONNECT SWITCH.

MINISPLIT SCHEDULE										
MARK	MFG.	MODEL		CFM	COOLING TMBH	HEAT TMBH	MCA	MOP	VOLT/PH/HZ	REMARKS/ACCESSORIES
		INDOOR	OUTDOOR							
MS-1	DAIKIN	FTK12AXVJU	RX12AXVJU	436 / 316 / 247	12	8.6	8.7	15	208-230 / 1 / 60	1, 2, 3, 4

REMARKS/ACCESSORIES

1. PROVIDE WIRELESS REMOTE UNIT.
2. PROVIDE FACTORY WALL MOUNTING HARDWARE. INSTALL UNIT 8'-0" A.F.F. IN LOCATION ON PLAN.
3. PROVIDE WITH LOW AMBIENT KIT.
4. PROVIDE FACTORY CONDENSATE PUMP.

VARIABLE REFRIGERANT VOLUME - ZONE HEAT RECOVERY SCHEDULE									
MARK	MFG.	MODEL	# OF PORTS	DIMENSIONS (IN)	MCA	MOP	VOLT/PH/HZ	WEIGHT (LBS.)	REMARKS / ACCESSORIES
BS-1	LG	PRHR063A	6	31.25" X 18.9375" X 8.625"	0.09	15	208-230 / 1 / 60	60	1, 2, 3
BS-2	LG	PRHR043	4	19.125" X 18.9375" X 8.625"	0.06	15	208-230 / 1 / 60	40	1, 2, 3

REMARKS/ACCESSORIES

1. NO DRAIN PIPE NEEDED
2. STANDARD LIMITED WARRANTY: 10-YEAR ON ALL PARTS.
3. PROVIDE BALL VALVES ON ALL PIPING ATTACHED TO BRANCH BOX

RADIANT HEATER SCHEDULE								
MARK	MFG	MODEL	HEATING		MCA	VOLT/PH/HZ	WEIGHT (LBS.)	REMARKS/ACCESSORIES
			INPUT MBH (HIGH/LOW)	TYPE OF FUEL				
RH-1	REVERBERRY	HL3-50-125	125	GAS	4.8	120 / 1 / 60	235	1 THRU 14
RH-2	REVERBERRY	HL3-50-125	125	GAS	4.8	120 / 1 / 60	235	1 THRU 14
RH-3	REVERBERRY	HL3-50-125	125	GAS	4.8	120 / 1 / 60	235	1 THRU 14
RH-4	REVERBERRY	HL3-50-125	125	GAS	4.8	120 / 1 / 60	235	1 THRU 14

REMARKS/ACCESSORIES

1. TOTAL 50 FT. DETROIT RADIANT PRODUCTS HEATER SECTION.
2. PROVIDE TWO STAGE HEATERS.
3. PROVIDE WITH PRE-PURGE AND POST-PURGE.
4. ELECTRONIC CONTROLS TO BE OUT OF AIRSTREAM.
5. HOT SURFACE IGNITION.
6. PROVIDE WITH FACTORY STAINLESS STEEL FLEX GAS CONNECTORS.
7. PROVIDE WITH SHUT OFF.
8. PROVIDE ONE COMMON FACTORY 24V WALL MOUNTED THERMOSTAT FOR COMMON VENTED HEATERS.

REMARKS/ACCESSORIES

9. PROVIDE FACTORY ALUMINIZED COATED STEEL EMITTER TUBES.
10. PROVIDE PARABOLIC ALUMINUM REFLECTORS WITH 99% EFFICIENCY.
11. PROVIDE TRANSFORMER FOR COMMON T-STAT WIRING.
12. PROVIDE SHIELDING WHERE NECESSARY TO PROTECT ANY COMBUSTIBLES.
13. INSTALL HEATER IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND CLARENCE TO COMBUSTIBLES.
14. INSTALL HEATER USING CHAIN AND S' HOOKS OR GRIPPLE CABLE HANGERS



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HSA JOB # 23-134

HSA JOB # 23-134

NOTES:
REFER TO SHEET M1.1 FOR HVAC LEGEND, GENERAL AND KEYED NOTES.
REFER TO SHEET M2.1 FOR HVAC PLANS.
REFER TO SHEET M3.1, M3.2 FOR HVAC DETAILS.

STATE OF
ARKANSAS
REGISTERED
PROFESSIONAL
ENGINEER
No. 11834
MAY 1987
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MOUNTAIN HOME, AR 72653

[illegible]

MBL JOB NO.
230006

ISSUE DATE
04/23/2024

SHEET
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**HVAC
SCHEDULES**

SHEET

M5.1

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- LEGEND**
- USB DUPLEX RECEPTACLE TYPE USB20X2
- DUPLEX RECEPTACLE (NEMA 5-20R) OR-DOUBLE DUPLEX. TAMPER RESISTANT, COMMERCIAL SPECIFICATION GRADE.
- 220 VOLT RECEPTACLE (NUMBER DENOTES AMPS)
- DUPLEX RECEPTACLE GROUND FAULT NEMA 5-20R. TAMPER RESISTANT, COMMERCIAL SPECIFICATION GRADE.
- DUPLEX RECEPTACLE GROUND FAULT TYPE 6F5362, MOUNTED WITH ROOF TOP HVAC UNIT DISCONNECT.
- TELEVISION CABLE OUTLET VERIFY EXACT LOCATION AND MOUNTING HEIGHT WITH THE OWNER PRIOR TO ROUGH-IN. REQUIRES RECEPTACLE, TWO DATA OUTLET AND CABLES, AND ONE RS66COAXIAL CABLE IN SEPARATE 1" CONDUIT TO DATA ROOM. TV COAX COILED ON THE PLYWOOD WALL NEXT TO MDF FOR CONNECTION TO UTILITY PROVIDER. PROVIDE 1" CONDUIT STUBBED TO AN ACCESSIBLE LOCATION ABOVE A REMOVABLE CEILING TILE FOR THE DATA OUTLET. PROVIDE 3 GANG BACK BOX ARLINGTON #TVB5505 OR APPROVED EQUAL.
- WIREMOLD TYPE "RFB6E-06" FLOOR BOX WITH TWO USB DUPLEX RECEPTACLE, AND TWO COMMUNICATION BRACKETS TO MATCH OWNER'S DATA EQUIPMENT. INSTALL ONE 1" CONDUIT FOR POWER AND ONE 1" CONDUIT FOR DATA. INCLUDE ONE BRASS COVER, TYPE 8CT FLUSH COVER, AT EACH LOCATION. SET BOX HEIGHT WITH FLOOR TYPE. COVER IS TO BE FLUSH IN FLOOR. (FOR BARE/POLISHED CONCRETE FLOOR PROVIDE RFB6E CONCRETE EDGE BARRIER KIT). PROVIDE A MINIMUM OF TWO DATA CABLES AT EACH LOCATION.
- WIRELESS INTERNET EQUIPMENT FURNISHED AND INSTALLED BY THE OWNER, FURNISH AND INSTALL TWO DATA CABLES.
- DATA: REQUIRES 4" SQUARE OUTLET BOX, APPROPRIATE PLASTER RING, AND 1" C. STUBBED TO AN ACCESSIBLE LOCATION ABOVE A REMOVABLE CEILING TILE. REFER TO SPECIFICATIONS FOR CABLE INFORMATION. MINIMUM OF TWO DATA CABLES PER LOCATION
- FLUSH MOUNTED JUNCTION BOX. VERIFY MOUNTING HEIGHT WITH MILLWORK DETAILS AND/OR THE OWNER'S REPRESENTATIVE. AT EQUIPMENT LOCATIONS VERIFY THE EXACT LOCATION WITH THE EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.
- FUSED/NON-FUSED DISCONNECT-FUSE ALL EQUIPMENT PER MANUFACTURER RECOMMENDATION FOR THE ACTUAL EQUIPMENT FURNISHED. MOUNT DISCONNECT FOR HVAC CONDENSER UNITS WITH TOP OF SWITCH AT 36" A.F.F.
- MOTOR - VERIFY THE SIZE WITH ACTUAL EQUIPMENT FURNISHED. NUMBER REPRESENTS HORSE POWER RATING.
- MOTOR RATED SWITCH USED FOR EQUIPMENT DISCONNECTING MEANS. SINGLE PHASE; PROVIDE WITH THERMAL OVERLOAD SIZED PER MOTOR LOAD.
- SINGLE POLE SWITCH FOR GARBAGE DISPOSER. WIRE RECEPTACLE TO SWITCHED UPPER HALF.
- SWITCH TYPE 1221 ("3" INDICATES 3-WAY SWITCH, "D" INDICATES DIMMER COORDINATE WITH FIXTURE/LAMP TYPE AND CIRCUIT MATTAGE.
- WALL MOUNTED DUAL TECHNOLOGY MOTION SENSOR SWITCH WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE CONTRACTORS TO CONTROL EXHAUST FAN WITH LIGHTS.
- WALL MOUNTED PASSIVE INFRARED COMBINATION MOTION SENSOR SWITCH AND SINGLE POLE WALL BOX SLIDE DIMMER. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE CONTRACTORS TO CONTROL EXHAUST FAN WITH LIGHTS. LEVITON OSD10 OR EQUAL.
- "OS" - CEILING MOUNTED DUAL TECHNOLOGY MOTION SENSOR PROVIDE AND INSTALL THE APPROPRIATE POWER PACK. COORDINATE SWITCHING WITH ACTUAL MOTION SENSOR USED. COORDINATE LOCATION AND NUMBER WITH ACTUAL MOTION SENSOR USED. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE OCCUPANCY SENSOR WHICH IS THE CORRECT TYPE FOR THE SPACE. PROVIDE OCCUPANCY SENSOR TO CONTROL EXHAUST FAN WITH LIGHTS. "HB" DENOTES HIGH BAY TYPE OCCUPANCY SENSOR.
- "OS" - WALL MOUNTED DUAL TECHNOLOGY MOTION SENSOR PROVIDE AND INSTALL THE APPROPRIATE POWER PACK. COORDINATE SWITCHING WITH ACTUAL MOTION SENSOR USED. COORDINATE LOCATION AND NUMBER WITH ACTUAL MOTION SENSOR USED. WIRE PER MANUFACTURERS RECOMMENDATION. PROVIDE OCCUPANCY SENSOR WHICH IS THE CORRECT TYPE FOR THE SPACE.
- EXIT LIGHT - ARROW DENOTES INCLUSION OF ARROW ON LENS. CONTRACTOR TO COORDINATE PROPER MOUNTING DETAILS.
- TIME CLOCK: INTERMATIC #ET8215C FOR LIGHTING CONTROL APPLICATIONS. INTERMATIC #T2005 FOR CIRCULATION PUMPS.
- LIGHTING CONTACTOR-SQUARE D #8403.
- PHOTO-ELECTRIC CELL: EQUAL TO INTERMATIC NO. K4136M.
- THERMOSTAT, MOUNT. @ 48" A.F.F. TO CENTER OF BOX (NUMBER DENOTES HVAC UNIT).
- SENSOR, MOUNT @ 48" TO CENTER IN SEPARATE SINGLE GANG BOX.
- PUSHBUTTON FOR OVERHEAD DOORS.
- PUSH BUTTON FOR EMERGENCY SHUTOFF
- GENERATOR ANNUNCIATOR PANEL
- COMBINATION MAGNETIC STARTER/FUSIBLE DISCONNECT SWITCH; FUSE PER EQUIPMENT FURNISHED.

DETAIL NUMBER

SHEET NUMBER

- LEGEND(CONT.)**
- ELECTRICAL PANEL.
- BRANCH CIRCUIT HOMERUN. PANEL AND CIRCUIT NUMBER INDICATED.
- FIRE ALARM CONTROL PANEL MOUNTED 50" A.F.F.
- FIRE ALARM ANNUNCIATOR PANEL MOUNTED 52" A.F.F.
- MANUAL PULL STATION MOUNTED MINIMUM OF 42"; MAXIMUM OF 48" A.F.F.
- FIRE ALARM MODULE FOR CONTROL; PROVIDE ALL LOW VOLTAGE WIRING.
- PHOTOELECTRIC SMOKE DETECTOR. WALL MOUNTED
- HEAT DETECTOR. WALL MOUNTED
- PHOTOELECTRIC SMOKE DETECTOR. CEILING MOUNTED
- SMOKE/CO DETECTOR WITH SOUNDER BASE
- HEAT DETECTOR. CEILING MOUNTED
- CEILING FIRE ALARM VISUAL STROBE LIGHT-WP DENOTES WEATHER RESISTANT. REQUIRES 4" SQUARE BOX WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING. NUMBER DENOTES CANDELA RATING.
- WALL MOUNT FIRE ALARM VISUAL STROBE LIGHT-WP DENOTES WEATHER RESISTANT. REQUIRES 4" SQUARE BOX WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING. NUMBER DENOTES CANDELA RATING.
- WALL MOUNT FIRE ALARM HORN-STROBE LIGHT-WP DENOTES WEATHER RESISTANT. REQUIRES 4" SQUARE BOX WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING. NUMBER DENOTES CANDELA RATING.
- CEILING FIRE ALARM HORN-STROBE LIGHT-WP DENOTES WEATHER RESISTANT. REQUIRES 4" SQUARE BOX WITH 3/4" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING. NUMBER DENOTES CANDELA RATING.
- FAN SPEED CONTROL WALL MOUNTED SWITCH. WIRE PER MANUFACTURERS RECOMMENDATION.
- SUBSCRIPTS:
C = COORDINATE LOCATION WITH MILLWORK-MOUNTING HEIGHTS VARY. REFER TO THE ARCHITECTURAL MILLWORK DRAWINGS.
W = WALL MOUNTED @ 48" A.F.F. OR AS SHOWN.
GF = GROUND FAULT CIRCUIT INTERRUPTER.
WP = WEATHER RESISTANT RECEPTACLES ARE "GFI", WITH METAL WEATHER RESISTANT "WHILE-IN-USE" COVERS.
MW = MICROWAVE OVEN
GD = GARBAGE DISPOSER
EM = FIXTURE CONTAINS EMERGENCY BATTERY PACK.
NL = UNSWITCHED EMERGENCY FIXTURE.
H = MOUNT HORIZONTALLY IN MILLWORK.
EC = ELECTRICAL CONTRACTOR
AFF = ABOVE FINISHED FLOOR
AFB = ABOVE FINISHED GRADE
EW = ELECTRIC WATER COOLER
EWH = ELECTRIC WATER HEATER
NTS = NOT TO SCALE

- GENERAL ELECTRICAL NOTES-ALL SHEETS**
- THESE NOTES ARE ONLY A SUPPLEMENT TO THE SPECIFICATIONS**
1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR A COMPLETE WORKING INSTALLATION.
2. THIS CONTRACTOR IS TO COMPLY WITH THE STATE ADOPTED ADA ACCESSIBLE GUIDELINES IN REGARD TO ACCESSIBLE FEATURES.
3. AT ALL MILLWORK LOCATIONS COORDINATE THE ELECTRICAL INSTALLATION WITH THE ARCHITECTURAL DRAWINGS.
4. PROVIDE FIRE RATING WHERE CONDUIT OR OTHER ELECTRICAL ITEMS PASS THROUGH FIRE-RATED WALLS, CEILINGS AND FLOORS.
5. INSTALL ALL CONDUIT STRAIGHT AND PARALLEL WITH THE BUILDING LINES. ALL CONDUIT IS CONCEALED IN PUBLIC PLACES.
6. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL PERMIT AND FEE COSTS AND SHALL INCLUDE THESE COSTS IN THE BID PRICE FOR THIS PROJECT.
7. THE ENTIRE ELECTRICAL INSTALLATION SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES AND ORDINANCES. IF A CONFLICT IS FOUND BETWEEN APPLICABLE CODES, THE MORE STRINGENT SHALL APPLY. THE CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL APPLICABLE MUNICIPAL CODES AND ORDINANCES.
8. THE SUBMISSION OF A PROPOSAL WILL BE CONSIDERED EVIDENCE THAT THE CONTRACTOR HAS FAMILIARIZED THEMSELVES WITH THE DRAWINGS, SPECIFICATION BOOK, THE BUILDING SITE AND OTHER INFORMATION PRESENTED FOR THE CONSTRUCTION OF THIS PROJECT. CLAIMS MADE SUBSEQUENT TO THE PROPOSAL FOR MATERIALS AND LABOR NOT IS FOUND TO BE DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED IF THEY COULD HAVE BEEN FORESEEN HAD A COMPLETE AND THOROUGH EXAMINATION BEEN MADE.
9. DO NOT SCALE DIRECTLY FROM THE ELECTRICAL DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL INFORMATION.
10. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERECTED. THIS CONTRACTOR GUARANTEE SHALL EXIST FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL OWNER ACCEPTANCE OF THE WORK AND SHALL APPLY TO ALL DEFECTS IN MATERIALS AND/OR WORKMANSHIP OF ANY KIND.
11. WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OR NATURE OF THE WORK REQUIRED, THE CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES WILL BE MADE WITH OUT THE EXPRESSED WRITTEN CONSENT OF THE OWNER.
12. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE WITH ALL OTHER TRADES TO INSURE THAT ALL CIRCUITS AND DEVICES ARE OF A PROPER SIZE FOR ACTUAL EQUIPMENT FURNISHED. THE ENGINEER SHALL BE NOTIFIED OF ANY CONFLICT WHICH CAUSES CHANGES TO ANY SYSTEM AS DESIGNED ON THESE DRAWINGS. FAILURE ON THE PART OF THE CONTRACTOR TO NOTIFY THE ENGINEER OR ARCHITECT OF SUCH CONFLICTS PLACES THE SUBSEQUENT CHANGES UPON THE CONTRACTOR.
13. CONDUIT FOR FLOOR BOXES IS TO BE INSTALLED UNDER THE SLAB, UP INTO THE BOTTOM OF THE FLOOR BOX. NO CONDUIT IS TO BE INSTALLED IN THE SLAB.
14. WHEN INSTALLING POLE BASES OR UNDERGROUND UTILITIES, FIELD VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES, EXACT LOCATION OF POLE BASES AND CONDUIT TO BE DETERMINED IN THE FIELD.
15. THE ELECTRICAL CONTRACTOR IS TO PROVIDE, AT YET TO BE DECIDED LOCATIONS, TEN (10) CONDUIT STUB-UPS, WHICH ARE TO INCLUDE 4" OUTLET BOXES, PLASTER RINGS, COVER PLATES, AND CONDUIT TO ABOVE THE CEILING, FIVE ONE GANG AND FIVE TWO GANGS. IN ADDITION, PROVIDE FIFTEEN (15) SINGLE GANG STUB-UPS WHICH ARE TO INCLUDE 4" OUTLET BOXES, PLASTER RINGS, COVER PLATES, INCLUDING ONE RECEPTACLE OR SWITCH WITH 50 FEET OF CIRCUIT WIRING PER SINGLE GANG STUB-UP. COMBINED TOTAL NUMBER OF STUB-UPS REQUIRED IS TWENTY FIVE (25).
16. THE ELECTRICAL CONTRACTOR MUST REVIEW ALL ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF ALL ELECTRICAL EQUIPMENT, OUTLETS AND OTHER MISCELLANEOUS POWER REQUIREMENTS. IF THE ELECTRICAL REQUIREMENTS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS THEY MUST BE INCLUDED IN THE CONTRACT, EVEN IF NOT SHOWN ON THE ELECTRICAL DRAWINGS.

- GENERAL ELECTRICAL NOTES (CONTINUED.)**
17. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING SYSTEMS:
- A. POWER AND LIGHTING
1. DEVICE PLATES ARE TO BE NYLON IN ALL BEDROOMS, PRIVATE TOILETS, OFFICES, KITCHEN, DAYROOM, AND CORRIDORS. ALL OTHER AREAS ARE TO HAVE STAINLESS STEEL DEVICE PLATES. COORDINATE COLOR OF DEVICES WITH THE ARCHITECT.
2. ALL 20A 120V AND 250V NON-LOCKING TYPE RECEPTACLES, UNLESS OTHERWISE NOTED, SHALL BE TAMPER RESISTANT TYPE PER NEC 406.12.
3. WHERE DEVICES ARE SHOWN NEXT TO EACH OTHER, THEY ARE INTENDED TO BE GANGED, FIELD VERIFY ACTUAL SPACE AVAILABLE AND NOTIFY THE ARCHITECT WHERE THERE ARE SPACE CONFLICTS.
4. LOW VOLTAGE WIRING IS TO BE ENCASED IN CONDUIT IN AREAS WITH NO CEILING OR INACCESSIBLE HARD CEILING.
5. RECEPTACLES FOR EQUIPMENT SUCH AS ELECTRIC WATER COOLERS SHALL BE LOCATED IN THE WALL AT A LOCATION WHICH IS CONCEALED BY THE EQUIPMENT CABINET.
6. ALL EMPTY CONDUITS ARE TO CONTAIN A NYLON PULL STRING. EMPTY CONDUITS 2" AND LARGER ARE TO BE SWABBED OUT AND LEFT WITH A NYLON PULL ROPE FOR THE USE OF THE OWNER.
7. COORDINATE THE EXACT LOCATION OF ALL FLOOR BOXES WITH THE ARCHITECT AND THE ARCHITECTURAL DRAWINGS.
8. COVER PLATES FOR EXTERIOR RECEPTACLES ARE TO BE METAL, WEATHER PROOF WHILE IN USE.
9. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL DRIVER AND LAMP COMBINATIONS THAT WILL PROVIDE THE OWNER WITH A FIVE YEAR WARRANTY ON THE DRIVER.
10. COORDINATE WITH THE GENERAL CONTRACTOR AND THE INSULATION CONTRACTOR TO HOLD THE BATT INSULATION AWAY FROM ALL LAY-IN FIXTURES. CLEARANCE SHOULD BE 3" ON ALL SIDES, AND TOTALLY CLEAR ON THE TOP.
11. WIRE SIZES:
- A. #12 LESS THAN 75 FEET
B. #10 BETWEEN 75-150 FEET
C. #8 BETWEEN 150-250 FEET
D. #6 BETWEEN 250-375 FEET
- B. FIRE ALARM:
1. ALL FIRE ALARM OUTLET BOXES ARE TO BE PAINTED RED.
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING BREAKER LOCK FOR LOCKING FIRE ALARM PANEL BREAKER IN THE 'ON' POSITION.
3. THE FIRE ALARM CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING A PLAN BOX NEXT TO THE FIRE ALARM CONTROL PANEL. COORDINATE EXACT SIZE AND LOCATION OF BOX WITH THE CITY FIRE MARSHAL PRIOR TO INSTALLATION. IT SHOULD BE LARGE ENOUGH FOR A SET OF SPRINKLER PLANS AND A LOG.
4. INSTALL FIRE ALARM SYSTEM PER N.F.P.A. AND ALL STATE AND LOCAL ORDINANCES.
5. COORDINATE THE OVERALL FIRE ALARM SYSTEM WITH THE FIRE MARSHAL, FURNISHING ALL DEVICES AND SYSTEMS NECESSARY FOR A COMPLETE ACCEPTABLE SYSTEM. NO EXTRA CHARGES WILL BE ALLOWED, OUTSIDE OF THE CONTRACT PRICE. THE FIRE ALARM CONTRACTOR IS TO SUBMIT PLANS TO THE FIRE MARSHAL FOR FINAL APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
6. DUCT DETECTORS ARE SUPPLIED AND INSTALLED BY THE FIRE ALARM CONTRACTOR. IT IS THE RESPONSIBILITY OF THE FIRE ALARM CONTRACTOR TO FURNISH ALL WIRING NECESSARY TO CONNECT THESE DEVICES TO THE FIRE ALARM SYSTEM, PROVIDE WITH REMOTE INDICATOR OR SEPARATELY ZONED. COORDINATE QUANTITY AND LOCATION WITH THE MECHANICAL DRAWINGS.
- C. TV CABLE
1. THE ELECTRICAL CONTRACTOR IS TO PROVIDE, INSTALL AND TERMINATE ALL TV CABLE. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS. EACH TV OUTLET REQUIRES ONE TV CABLE AND TWO DATA
2. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT TO THE PROPERTY LINE FOR INCOMING SERVICES, AS WELL AS COORDINATION WITH THE UTILITIES FOR TIMELY INSTALLATION AND ANY FEES REQUIRED.
- D. CONDUIT AND CABLE SYSTEM FOR DATA AND TELEPHONE WIRING:
1. CONDUIT FOR DATA AND TELEPHONE SYSTEM. TO INCLUDE SLEEVES IN FIRE WALLS.
2. DATA OUTLETS IN THE FLOOR REQUIRE 1" CONDUIT FROM EACH ONE TO A POINT ABOVE AN ACCESSIBLE CEILING. NO DAISY CHAINING OF DATA OUTLETS/CONDUITS IS ALLOWED.
3. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR CONDUIT TO THE PROPERTY LINE FOR INCOMING SERVICES, AS WELL AS COORDINATION WITH THE UTILITIES FOR TIMELY INSTALLATION AND ANY FEES REQUIRED.
4. CABLE IS NOT TO BE INSTALLED EXPOSED. VERIFY WITH MECHANICAL PLANS FOR PLENUM SPACES CABLE IN THESE AREAS IS PLENUM RATED.
5. ELECTRICAL CONTRACTOR IS TO PROVIDE, INSTALL AND TERMINATE ALL DATA/TELEPHONE WIRING. REFER TO SPECIFICATIONS FOR EXACT REQUIREMENTS.
- E. UNDERGROUND CONDUITS AND SLEEVES AS NECESSARY FOR DISTRIBUTION:
1. DO NOT ROUTE GROUPS OF CONDUITS OR SLEEVES ABOVE FOOTINGS UNLESS NOTED TO DO SO. IF CONFLICT OCCURS, CONSULT ARCHITECT AND ENGINEER.
2. DO NOT ROUTE CONDUIT OR SLEEVES BELOW BEARING WALLS WHEN RUNNING PARALLEL WITH WALLS.
3. LIMIT WIDTH OF CONDUIT AND SLEEVES NOT TO EXCEED 3'-0" IN WIDTH AS IT PASSES UNDER WALL FOOTING. ALIGN ITEMS PERPENDICULAR TO THE FOOTINGS AS IT PASSES BELOW THE FOOTING.
4. PROVIDE A MINIMUM SPACING OF 2'-0" BETWEEN CONDUIT GROUPS AS THEY PASS UNDER FOOTINGS.
5. DO NOT ROUTE CONDUITS OR SLEEVES UNDER COLUMN FOOTINGS OR PAD FOOTINGS.
- F. GROUNDING SYSTEM
1. ALL CONDUITS ARE TO CONTAIN A GREEN GROUNDING CONDUCTOR, SIZED PER THE N.E.C.
2. GROUND BUILDING STEEL AS INDICATED ON DRAWINGS.
- G. EQUIPMENT REQUIREMENTS:
1. VERIFY EXACT FUSE SIZE AND EQUIPMENT REQUIREMENTS WITH THE ACTUAL EQUIPMENT FURNISHED BY THE OTHER CONTRACTORS.
2. ALL HOT WATER CIRCULATION PUMPS ARE TO BE CONTROLLED VIA 7 DAY TIME CLOCKS PROVIDED BY THE MECHANICAL CONTRACTOR.
3. FINAL EQUIPMENT CONNECTIONS: THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL LABOR AND MATERIALS REQUIRED TO MAKE FINAL ELECTRICAL CONNECTIONS TO ALL EQUIPMENT FURNISHED ON THIS PROJECT. VERIFY ALL REQUIREMENTS, CONDUCTOR SIZES, OVERCURRENT PROTECTION, PHASES, VOLTAGES, MOTOR ROTATION, ETC., WITH THE EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN. PROVIDE FUSED DISCONNECT IF REQUIRED BY MANUFACTURER. FURNISH HARD WIRING FOR ALL WATER HEATERS AND CIRCULATION PUMPS.
4. THE ELECTRICAL CONTRACTOR IS TO PROVIDE ALL CONTACTORS, MAGNETIC STARTERS, AND MISCELLANEOUS WIRING NECESSARY TO CONTROL EXHAUST FANS AND OTHER AUTOMATICALLY OPERATED EQUIPMENT. THE CONTROLS CONTRACTOR IS TO FURNISH ONE RELAY PER ITEM AS COMPATIBLE WITH THEIR CONTROL SYSTEM.

- GENERAL ELECTRICAL NOTES (CONTINUED.)**
- H. HVAC CONTROL:
1. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT FROM EACH HVAC UNIT TO ITS RESPECTIVE THERMOSTAT, HUI FIXTAT, AND/OR SENSOR, AS REQUIRED. COORDINATE EXACT LOCATIONS WITH MECHANICAL CONTRACTOR AND ARCHITECT PRIOR TO ROUGH-IN.
2. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING NECESSARY FOR LINE VOLTAGE CONTROL SYSTEMS.
3. ALL LOW VOLTAGE CONTROL WIRING SHALL BE ENCLOSED IN CONDUIT IN SPACES WITH NO CEILING.
4. COORDINATE ALL HVAC WIRING WITH THE MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR.
5. THE ELECTRICAL CONTRACTOR IS TO PROVIDE A MAGNETIC STARTER FOR EACH EXHAUST FAN. THIS STARTER IS CONTROLLED BY THE LIGHTING/MOTION SENSOR SYSTEM.
6. THE ELECTRICAL CONTRACTOR IS TO PROVIDE AND INSTALL ALL LINE VOLTAGE THERMOSTATS.
- I. SEISMIC CONSTRUCTION FOR ELECTRICAL INSTALLATION:
1. REFER TO IBC 2006, SECTION 26 00 15, "SEISMIC AND STRUCTURAL DESIGN CRITERIA FOR EQUIPMENT AND STRUCTURES, OREGON LNG IMPORT TERMINAL", AND CHAPTER 13 OF ASCE 7. THIS CONTRACTOR SHALL COMPLY WITH ALL LOCAL AND NATIONAL REQUIREMENTS FOR CONSTRUCTION AT THIS LOCATION.
2. THE ELECTRICAL CONTRACTOR IS TO COORDINATE WITH THE LOCAL "AHJ" TO PROVIDE AN INSTALLATION WHICH IS TOTALLY ACCEPTABLE.
3. AS PART OF THIS COMPLIANCE:
- A. CONDUITS LESS THAN 2.5 INCHES TRADE SIZE REQUIRE NO SEISMIC RESTRAINTS. ALL CONDUITS 2.5 INCHES AND LARGER SHALL BE SEISMICALLY PROTECTED PER THE MENTIONED REFERENCES.
- B. ELECTRICAL EQUIPMENT SHALL BE CONSTRUCTED AND ASSEMBLED TO WITHSTAND THE SEISMIC FORCES IN ACCORDANCE WITH FEMA 302 AND FEMA 302. EACH ITEM OF RIGID ELECTRICAL EQUIPMENT SHALL BE ENTIRELY LOCATED AND RIGIDLY ATTACHED ON ONE SIDE ONLY OF A BUILDING EXPANSION JOINT.
- C. PIPING, ELECTRICAL CONDUIT, ETC., WHICH CROSS AN EXPANSION JOINT SHALL BE PROVIDED WITH FLEXIBLE JOINTS THAT ARE CAPABLE OF ACCOMMODATING DISPLACEMENTS EQUAL TO THE FULL WIDTH OF THE JOINT IN BOTH ORTHOGONAL DIRECTIONS.
- D. LIGHTING FIXTURES AND SUPPORTS SHALL CONFORM TO UL 1510 OR UL 1571 AS APPLICABLE. ALL LIGHT FIXTURES ARE TO BE SUPPORTED FROM THE STRUCTURE. RECESSED FIXTURES ARE ALSO TO BE ATTACHED DIRECTLY TO THE CEILING SYSTEM RUNNERS AS REQUIRED BY THE SEISMIC DESIGN. FIXTURE ACCESSORIES, INCLUDING LOUVERS, DIFFUSERS, AND LENSES SHALL HAVE LOCK OR SCREW ATTACHMENTS.
- E. SURFACE-MOUNTED LIGHT FIXTURES INDIVIDUAL OR CONTINUOUS-ROW FIXTURES SHALL BE ATTACHED TO A SEISMIC-RESISTANT CEILING SUPPORT SYSTEM. SEISMIC REQUIREMENTS ASSOCIATED WITH THIS REGION.
- F. ATTACHMENTS AND SUPPORTS TRANSFERRING SEISMIC LOADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH A NATIONALLY RECOGNIZED STRUCTURAL STANDARD SPECIFICATION.
- G. FRICTION CLIPS SHALL NOT BE USED ANCHORAGE ATTACHMENT.
- H. SUPPORT CABLE TRAY IN A METHOD WHICH COMPLIES WITH THE SEISMIC REQUIREMENTS ASSOCIATED WITH THIS REGION.
- I. PROVIDE ANCHOR BOLTS AND CONCRETE AND MASONRY ANCHORS FOR ANCHORAGE OF EQUIPMENT WHICH IS IN COMPLIANCE WITH THE ABOVE REFERENCED GUIDES.
- J. POWDER ACTUATED FASTENERS AND SLEEVE ANCHORS SHALL NOT BE USED FOR SEISMIC ATTACHMENTS AND ANCHORAGE.
4. PROVIDE DOCUMENTATION AS TO THE SUITABILITY OF EQUIPMENT TO BE USED IN THIS PROJECT, BOTH IN THE SUBMITTAL PROCESS AND TO THE "AHJ" AS APPROPRIATE.
- K. EMERGENCY NOTIFICATION SYSTEM:
1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL CONDUIT, 120 VOLT POWER, AND BACK BOXES. COORDINATE WITH THE OWNER.
2. THE EMERGENCY NOTIFICATION SYSTEM IS OWNER FURNISHED AND OWNER INSTALLED.
- L. EMERGENCY GENERATOR:
1. THE EMERGENCY GENERATOR SHALL BE 100 KW, NATURAL GAS.
2. OPTIONAL EQUIPMENT SHALL INCLUDE; WEATHERPROOF SOUND ATTENUATED ENCLOSURE 600 AMP-3P, CIRCUIT BREAKER, REMOTE ANNUNCIATOR PANEL WITH EMERGENCY STOP BUTTON, AND COMPLETE START-UP SERVICES.
3. THE ENGINE SHALL BE NATURAL GAS.
4. THE GENERATOR SHALL BE 120/208 VOLTS, THREE PHASE.
5. THE AUTOMATIC TRANSFER SWITCH SHALL BE 800 AMP, 3-POLE, NEMA 3R, 120/208 VOLT.
6. PROVIDE SPRING VIBRATION ISOLATORS BETWEEN THE CONCRETE PAD AND THE BASE. ISOLATORS SHALL BE CALDYN TJ SERIES OR APPROVED EQUAL.
- A. INSTALL 2-#14, 3-#12, AND 1-BELDEN 9841 CONTROL WIRES FROM THE GENERATOR CONTROL PANEL TO THE ATS AND FROM THE ATS TO THE ANNUNCIATOR PANEL (LOCATED IN ROOM 105). THIS SHOULD BE INSTALLED IN 1" GALVANIZED RIGID CONDUIT-RUN UNDER GROUND.
- M. LIGHTNING PROTECTION SYSTEM:
1. THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR THE LIGHTNING PROTECTION SYSTEM. THE ELECTRICAL CONTRACTOR SHALL INCLUDE ALL COSTS RELATING TO THE INSTALLATION OF THIS SYSTEM IN HIS PRICING.
2. REFER TO THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.



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CONTENTS
**ELECTRICAL
LEGEND, NOTES
& DETAILS**

SHEET
E1.1

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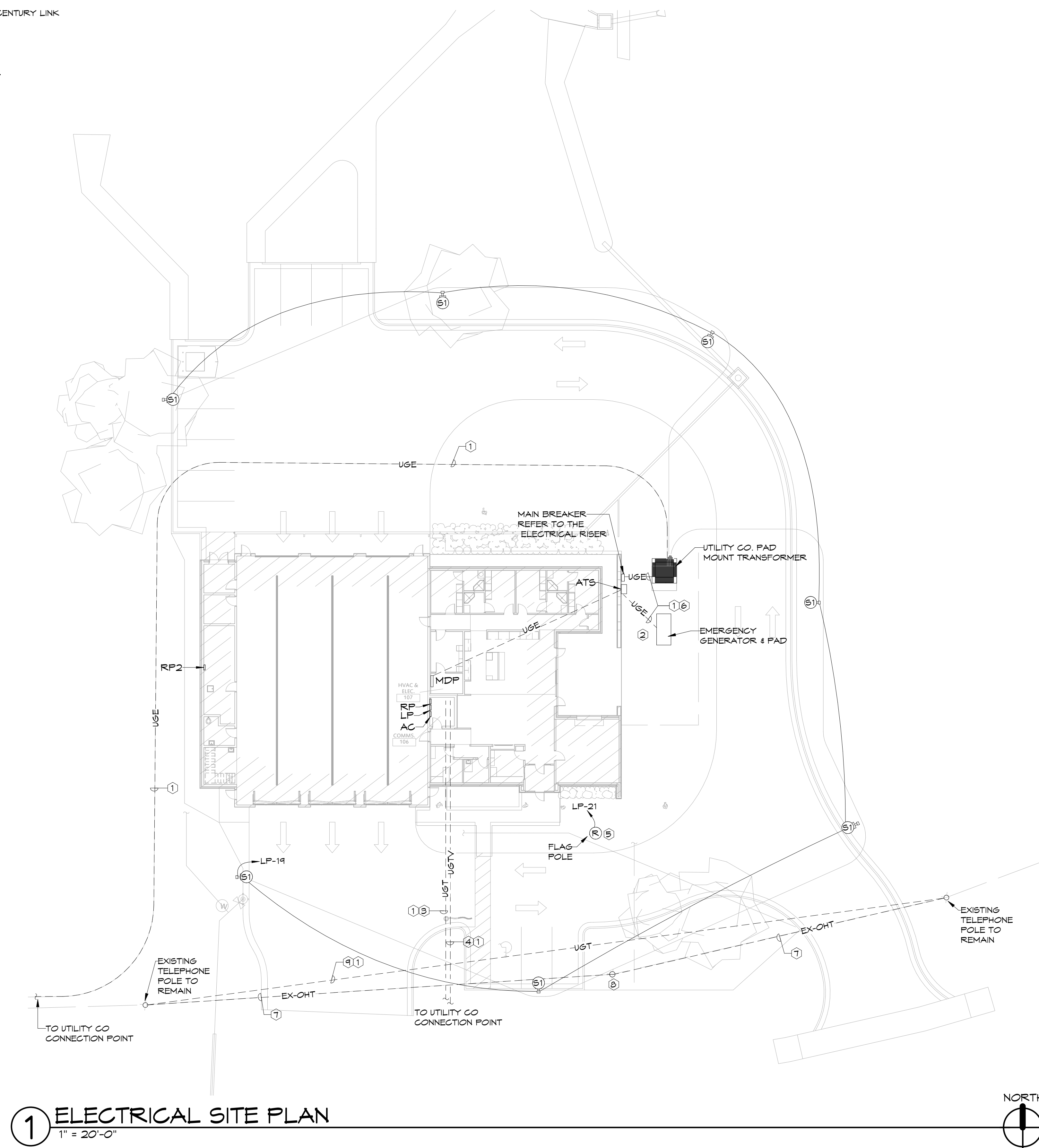
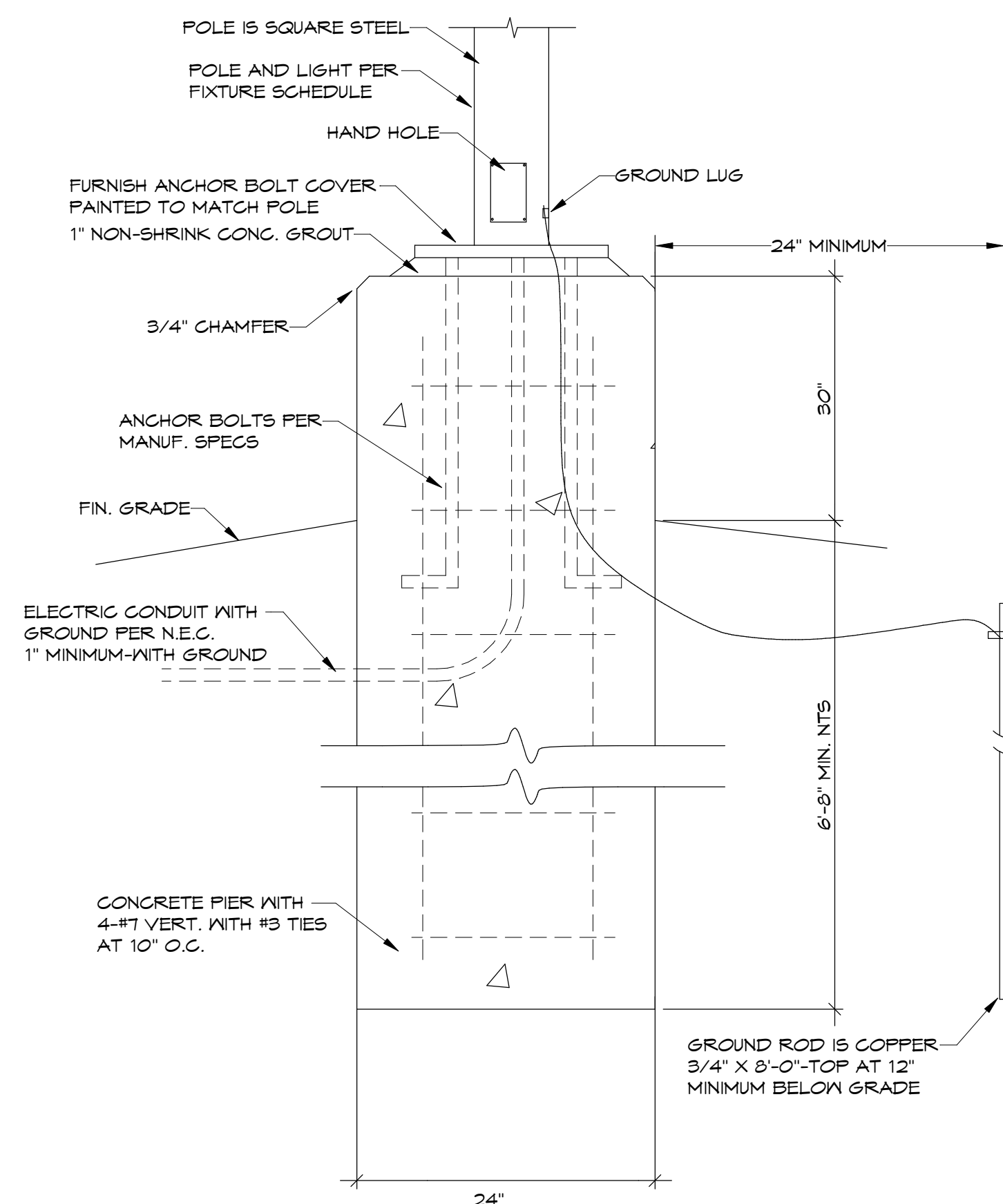
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1. THE ELECTRICAL CONTRACTOR PROVIDES AND INSTALLS DITCH FOR PRIMARY CONDUITS AND SECONDARY CONDUITS. THE PRIMARY AND SECONDARY CONDUITS, SECONDARY CONDUCTORS, TRANSFORMER PAD, AND GROUNDING RING. THE SECONDARY CONDUITS SHALL BE 3"-3" DISCOUNT, INSTALLED 24" BELOW GRADE USING 24" RIGID ELBOWS FROM UTILITY TRANSFORMER TO MAIN SERVICE DISCONNECT. METER AND BASE BY THE UTILITY. FINAL CONNECTIONS OF PRIMARY CONDUCTORS SHALL BE BY THE UTILITY. COORDINATE WITH N. ARKANSAS ELECTRIC COOP. ATTN: GREG KNIGHT (870) 508-5817.
2. THE PRIMARY CONDUITS SHALL BE GRAY SCHEDULE 40 UL PVC CONDUITS, AND HAVE A MINIMUM OF 48" OF FILL ON TOP OF CONDUITS. COORDINATE SIZE AND QUANTITY OF CONDUITS WITH UTILITY COMPANY.
3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF INSTALLATION AND CONNECTING THE ELECTRICAL SERVICE CONDUITS. COORDINATE CONNECTION WITH THE UTILITY COMPANY.
4. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF INSTALLATION AND CONNECTING SUDEN LINK SERVICE CONDUITS. COORDINATE WITH THE UTILITY COMPANY.
5. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL COSTS OF INSTALLATION AND CONNECTING CENTURY LINK SERVICE CONDUITS. COORDINATE WITH THE UTILITY COMPANY.
6. LOCATE ALL POLE BASES MINIMUM 3' OFF OF CURB.

- ① IDENTIFY OUTDOOR UNDERGROUND LINES WITH CONTINUOUS STRIP OF PLASTIC UTILITY MARKER. TAPE SHOULD STATE AT REGULAR INTERVALS: "CAUTION (STATE UTILITY) PIPE BELOW". INSTALL TAPE ONE FOOT DIRECTLY ABOVE PIPE BEFORE BACKFILLING TO GRADE.
- ② PROPOSED LOCATION FOR UTILITY COMPANY TRANSFORMER, AND METER.
- ③ 2-4" CONDUITS TO UTILITY COMPANY CONNECTION POINT FOR TELEPHONE SERVICES.
- ④ 2-4" CONDUITS TO UTILITY COMPANY CONNECTION POINT FOR CABLE TV SERVICES.
- ⑤ COORDINATE LOCATION OF THE FLAG POLE WITH THE ARCHITECT.
- ⑥ REFER TO ELECTRICAL RISER SHEET E4.1 FOR CONDUIT AND WIRE SIZES.
- ⑦ EXISTING OVERHEAD TELEPHONE LINE TO BE RELOCATED TO UNDERGROUND CONNECTION REQUIREMENTS WITH THE UTILITY CO. COORDINATE SIZE AND QUANTITY OF CONDUITS WITH UTILITY COMPANY.
- ⑧ REMOVE EXISTING TELEPHONE POLE COORDINATE REQUIREMENTS WITH THE UTILITY CO.
- ⑨ PROVIDE TWO 4" CONDUITS FOR RELOCATED UNDERGROUND TELEPHONE LINE. VERIFY WITH THE UTILITY COMPANY.

— — — EX-OHT — — —	EXISTING OVERHEAD TELEPHONE
— — — UGT — — —	UNDERGROUND TELEPHONE SERVICE CONDUITS
— — — UGTV — — —	UNDERGROUND CABLE TV SERVICE CONDUITS
— — — USE — — —	UNDERGROUND ELECTRIC
——— UGC ———	UNDERGROUND CONDUIT
○	EXISTING UTILITY CO TELEPHONE POLE
□=	POLE LIGHT, REFER TO SHEET E5.1 FOR FIXTURE TYPE

N. ARKANSAS ELECTRIC COOP.	GREG KNIGHT	(870) 508-5817
CENTRUYLINK	MIKE NEWTON	(870)425-6659.
SUDDENLINK		(877)-281-8025



② EXTERIOR LIGHT POLE FOOTING
N.T.S.



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**ELECTRICAL
SITE PLAN**

SHEET
E2.0

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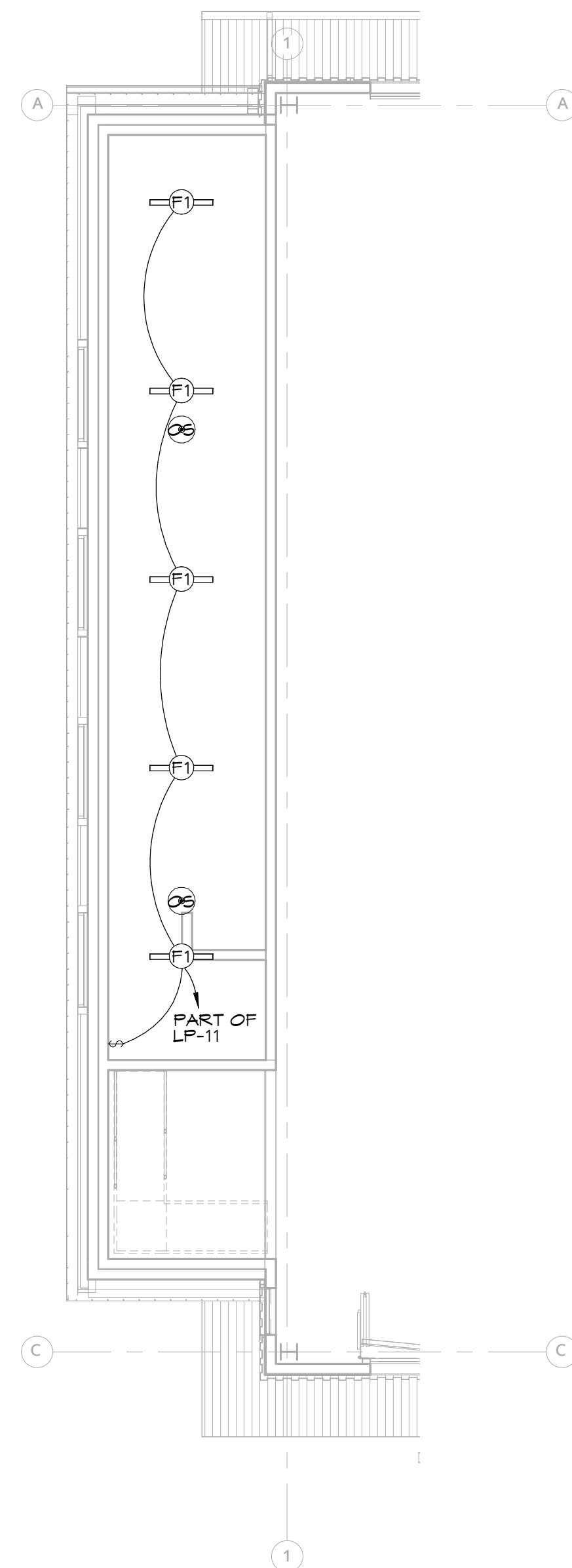
LIGHTING PLAN

SHEET
E2.1

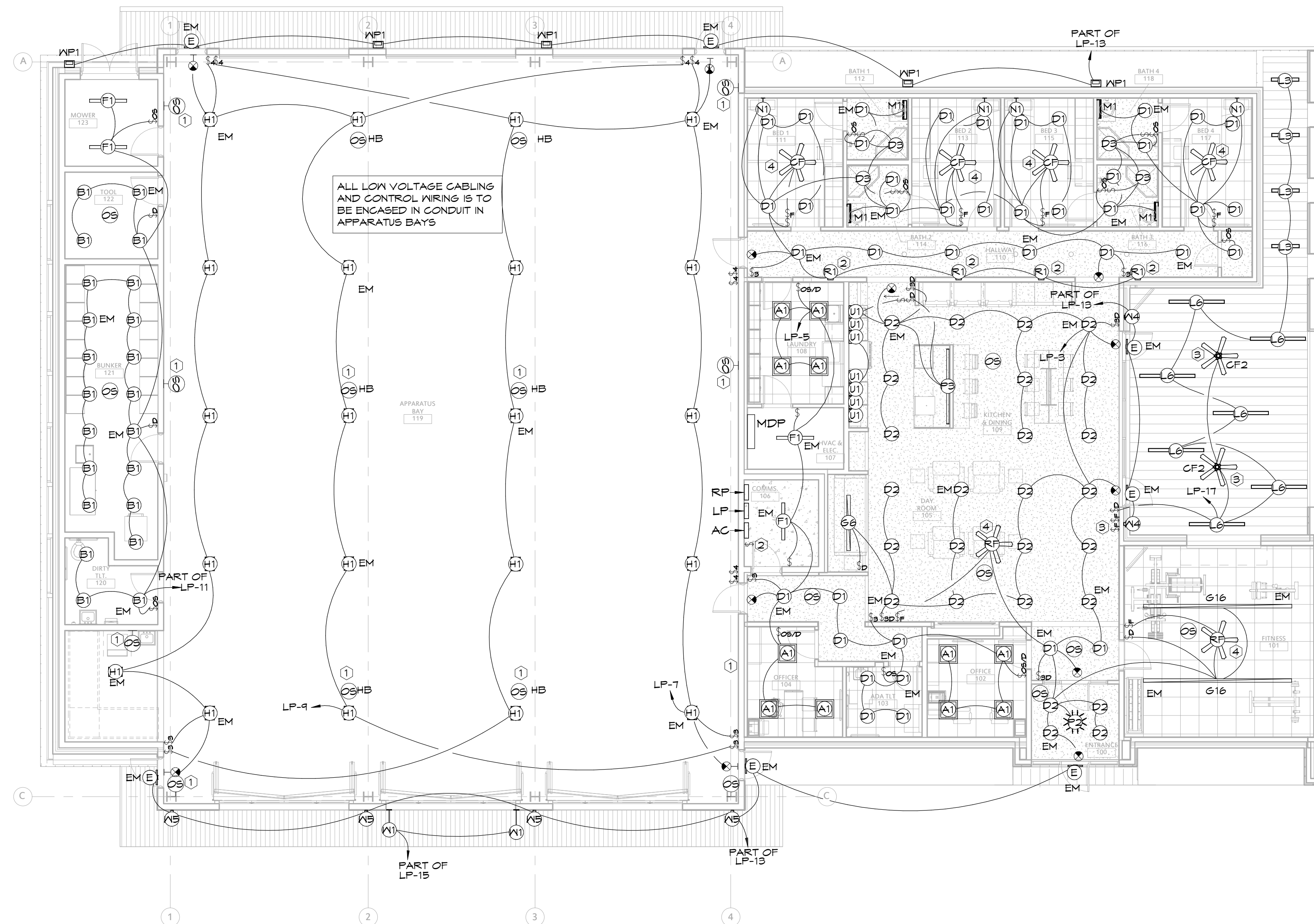
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KEYED LIGHTING NOTES

- ALL LIGHTING IN APPARATUS BAY IS TO BE CONTROLLED BY THE SAME GROUP OF OCCUPANCY SENSORS IN ROOM. IF ANY SENSOR DETECTS OCCUPANCY, LIGHTING IS TO STAY 'ON'. PROVIDE OCCUPANCY SENSORS LARGE ENOUGH TO COVER ROOM, AND APPROPRIATE NUMBER OF RELAYS. WIRE PER MANUFACTURES RECOMMENDATIONS.
- TYPE "R1" STEP LIGHTS ARE TO BE CONTROLLED BY A SINGLE POLE SWITCH LOCATED BY PANEL LP.
- SWITCH TO CONTROL OUTDOOR FANS LOCATED BY PATIO DOOR.
- CONTROL LIGHT KIT ON FAN WITH LIGHTS IN ROOM. TYPICAL OF ALL BEDROOMS



2 MEZZANINE LIGHTING PLAN
1/8" = 1'-0" NORTH



1 LIGHTING PLAN
1/8" = 1'-0" NORTH



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GENERAL POWER NOTES:

1. ALL RECEPTACLES IN APPARATUS BAY TO BE MOUNTED AT 48" A.F.F. UNLESS OTHERWISE NOTED

POWER PLAN KEYED NOTES:

- ① PROVIDE 1/4" X 20" X 4" GROUNDING BAR, INSTALL A #1/0 COPPER GROUND WIRE FROM GROUND BAR TO ELECTRICAL SERVICE GROUNDING ELECTRODE. LEAVE 5' TAIL.
- ② 3/4" FIRE RATED PLYWOOD BACKBOARD TYPICAL ALL WALLS IN SPACE. B.O. BAND AT 24" A.F.F.
- ③ CONNECT TO THE ELECTRICAL SERVICE GROUNDING ELECTRODE VIA A #6 COPPER GROUND CONDUCTOR. TYPICAL.
- ④ CONDUITS FOR INCOMING TELEPHONE, CABLE TV, AND FIBER OPTIC SERVICES. REFER TO ELECTRICAL SITE PLAN FOR MORE INFORMATION.
- ⑤ INTERLOCK OVERHEAD DOORS TO OPEN WHEN THE EMERGENCY NOTIFICATION SYSTEM IS ACTIVATED. COORDINATE EXACT REQUIREMENTS AND INSTALLATION OF OVERHEAD DOORS WITH THE SUPPLIER/INSTALLER PRIOR TO ROUGH-IN. INSTALL PER OVERHEAD DOOR SPECIFICATIONS.
- ⑥ REMOTE PUSHBUTTON TO OPEN OVERHEAD DOORS. MOUNT AT 48" AFF
- ⑦ PROVIDE POWER TO GAS RANGE THROUGH FIRE SUPPRESSION SYSTEM HARD WIRED ELECTRIC SHUTOFF DEVICE. WHEN FIRE SUPPRESSION SYSTEM IS IN ALARM POWER TO THE RANGE IS TO BE SHUTOFF VIA FIRE SUPPRESSION SYSTEM ELECTRICAL SHUTOFF DEVICE. SHUTOFF DEVICE TO BE LOCATED ABOVE RANGE HOOD. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR ALL FINAL CONNECTIONS. MOUNT RECEPTACLE IN SPACE ABOVE RANGE HOOD FOR FIRE SUPPRESSION SYSTEM AC ADAPTER. REFER TO DETAIL 9/M3.1 FOR MORE INFORMATION
- ⑧ NON FUSED DISCONNECT FOR EQUIPMENT. MAKE ALL FINAL CONNECTIONS AND COORDINATE EXACT REQUIREMENTS WITH EQUIPMENT PROVIDED.
- ⑨ TWO 2" CONDUITS WITH PULL STRINGS FROM THE DATA ROOM TO THE ROOF, WELL SUPPORTED FROM THE STRUCTURE FOR RADIO ANTENNAS EXTEND TO 3' ABOVE THE ROOF AND PROVIDE GOOSENECKS ON EACH CONDUIT.
- ⑩ WALL AND CEILING CONSTRUCTED OF CONCRETE. SEAL CONDUIT PENETRATIONS TO RATING OF CONSTRUCTION. ALLOW FOR 20% SPARE CONDUITS FROM EACH PANEL TO ABOVE CONCRETE LID TO AN ACCESSIBLE SPACE. STUB 4-4" CONDUITS TO ABOVE LID FOR DATA AND SECURITY CABLING. CAP ALL SPARE CONDUITS.
- ⑪ COORDINATE ALL LOCATIONS AND REQUIREMENTS WITH MILLWORK AND OWNER PRIOR TO ROUGH-IN. STUB UP CONDUIT IN TO ISLAND FROM BELOW SLAB.
- ⑫ PROVIDE EMERGENCY POWER OFF PUSH BUTTON FOR GENERATOR SHUT DOWN. REFER TO RISER DIAGRAM FOR ADDITIONAL INFORMATION.
- ⑬ EQUIPMENT RACK. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION. QUANTITY AS REQUIRED.
- ⑭ OVERHEAD DOOR CONTROL PANEL, DOOR SENSORS, MOTOR FURNISHED WITH UNIT. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH THE ACTUAL EQUIPMENT FURNISHED. PROVIDE ALL CONDUIT, BOXES, AND WIRE AS REQUIRED. REFER TO DETAIL 6 SHEET E4.1.
- ⑮ PROVIDE SLEEVES WITH PUL STRINGS AS REQUIRED ACROSS GYP BOARD CEILING FOR THE DISTRIBUTION OF LOW VOLTAGE CABLING.



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POWER PLAN

SHEET
E2.2

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② MEZZANINE POWER PLAN
1/8" = 1'-0"

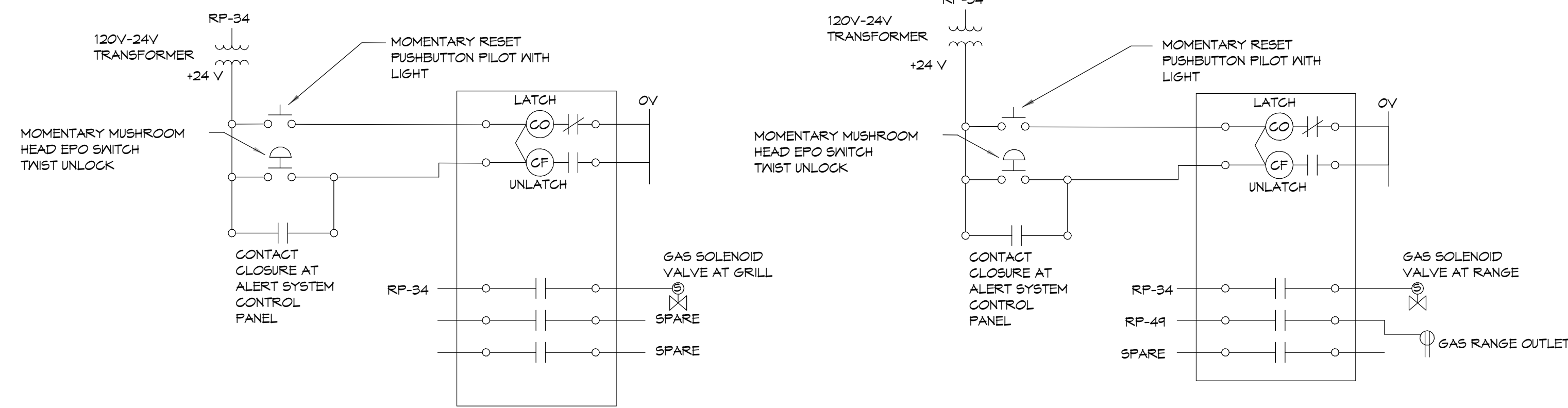


① POWER PLAN
1/8" = 1'-0"



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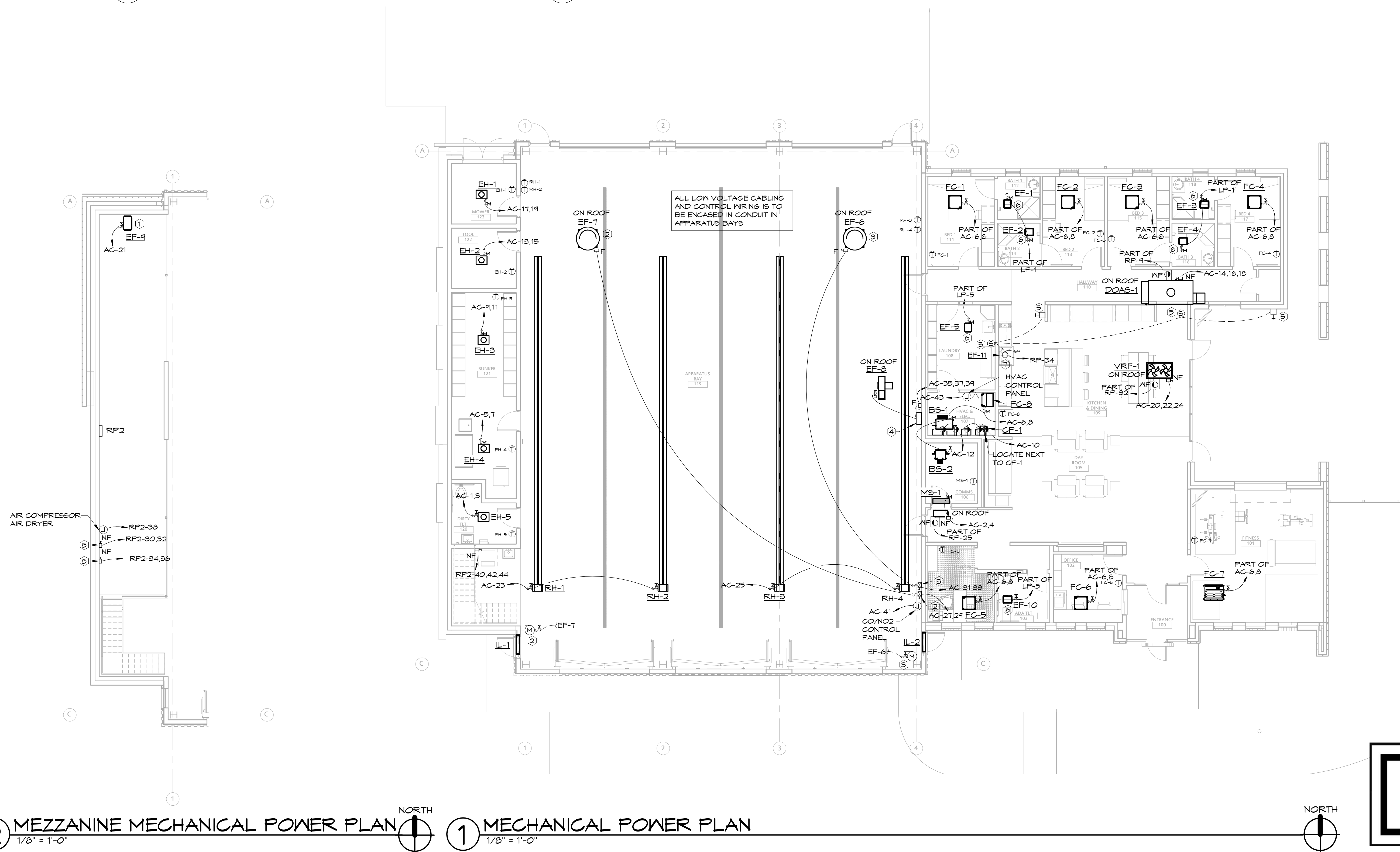


2 GAS SOLENOID DETAIL AT GRILL
N.T.S.

3 GAS SOLENOID DETAIL AT RANGE
N.T.S.

KEYED MECHANICAL POWER NOTES

- INTERLOCK EXHAUST FAN WITH LIGHTS IN BUNKER ROOM, MOWER ROOM, TOOL ROOM AND DIRTY TLT. PROVIDE ALL NECESSARY CONTACTS AND REALYS.
- EXHAUST FAN EF-1 TO BE CONTROLLED BY CO/NO2 MONITORING SYSTEM AND HOA CONTROLLER. INTERLOCK INTAKE LOUVER IL-1 WITH EXHAUST FAN EF-1. WHEN CO/NO2 DETECTOR IS IN ALARM MODE THE LOUVER IS TO OPEN AND THE EXHAUST FANS ARE TO TURN ON. REFER TO SHEET M3.2 DETAIL 4.
- EXHAUST FAN EF-6 TO BE CONTROLLED BY CO/NO2 MONITORING SYSTEM AND HOA CONTROLLER. INTERLOCK INTAKE LOUVER IL-2 WITH EXHAUST FAN EF-6. WHEN CO/NO2 DETECTOR IS IN ALARM MODE THE LOUVER IS TO OPEN AND THE EXHAUST FANS ARE TO TURN ON. REFER TO SHEET M3.2 DETAIL 4.
- CONTROL PANEL FOR PLYMOVENT EXHAUST, COORDINATE REQUIREMENTS WITH MECHANICAL CONTRACTOR.
- PUSH BUTTON FOR GAS SOLENOID VALVE SHUT OFF AND REST. REFER TO DETAIL 13 FOR KITCHEN GAS SOLENOID VALVE. REFER TO DETAIL 12 FOR OUTDOOR GRILL GAS SOLENOID VALVE ON SHEET E2.3. COORDINATE EXACT LOCATION WITH OWNER OR ARCHITECT PRIOR TO ROUGH-IN.
- INTERLOCK EXHAUST FAN WITH LIGHTS THIS ROOM. PROVIDE ALL NECESSARY CONTACTS AND REALYS.
- RECEPTACLE FOR RANGE HOOD. COORDINATE EXACT LOCATION WITH THE INSTALLERS.



2 MEZZANINE MECHANICAL POWER PLAN 1/8" = 1'-0"
1 MECHANICAL POWER PLAN 1/8" = 1'-0"



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**MECHANICAL
POWER PLAN**

SHEET
E2.3

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GENERAL SPECIAL SYSTEMS NOTES

1. ALL SMOKE/CO DETECTORS IN BED ROOMS ARE TO BE EQUIPPED WITH BUILT-IN SOUNDER BASES. THE SMOKE/CO DETECTOR IS TO BE PROGRAMMED AS A "LOCAL ALARM" AND TO SOUND WHEN THE INDIVIDUAL DETECTOR IS ACTIVATED, AND AS A "GENERAL ALARM" TO SOUND WHEN THE REST OF THE BUILDING'S FIRE ALARM SYSTEM IS ACTIVATED.
2. ALL SMOKE DETECTORS IN THE CORRIDORS ARE TO BE COMBINATION SMOKE AND CARBON MONOXIDE DETECTORS AND ARE TO BE EQUIPPED WITH BUILT-IN SOUNDER BASES.
3. VERIFY MOUNTING HEIGHT OF ALL FIRE STATION ALERTING DEVICES WITH THE MANUFACTURER PRIOR TO ROUGH-IN.
4. COORDINATE THE LOCATION OF THE WEATHER RESISTANT HORN SPEAKERS WITH THE ARCHITECT PRIOR TO ROUGH-IN OF DEVICE BOXES AND CONDUIT.
5. THE EMERGENCY NOTIFICATION SYSTEM IS OWNER FURNISHED AND OWNER SUPPLIED.
6. COORDINATE FINAL LOCATIONS AND QUANTITIES OF ALERTING EQUIPMENT WITH OWNER OR ARCHITECT.



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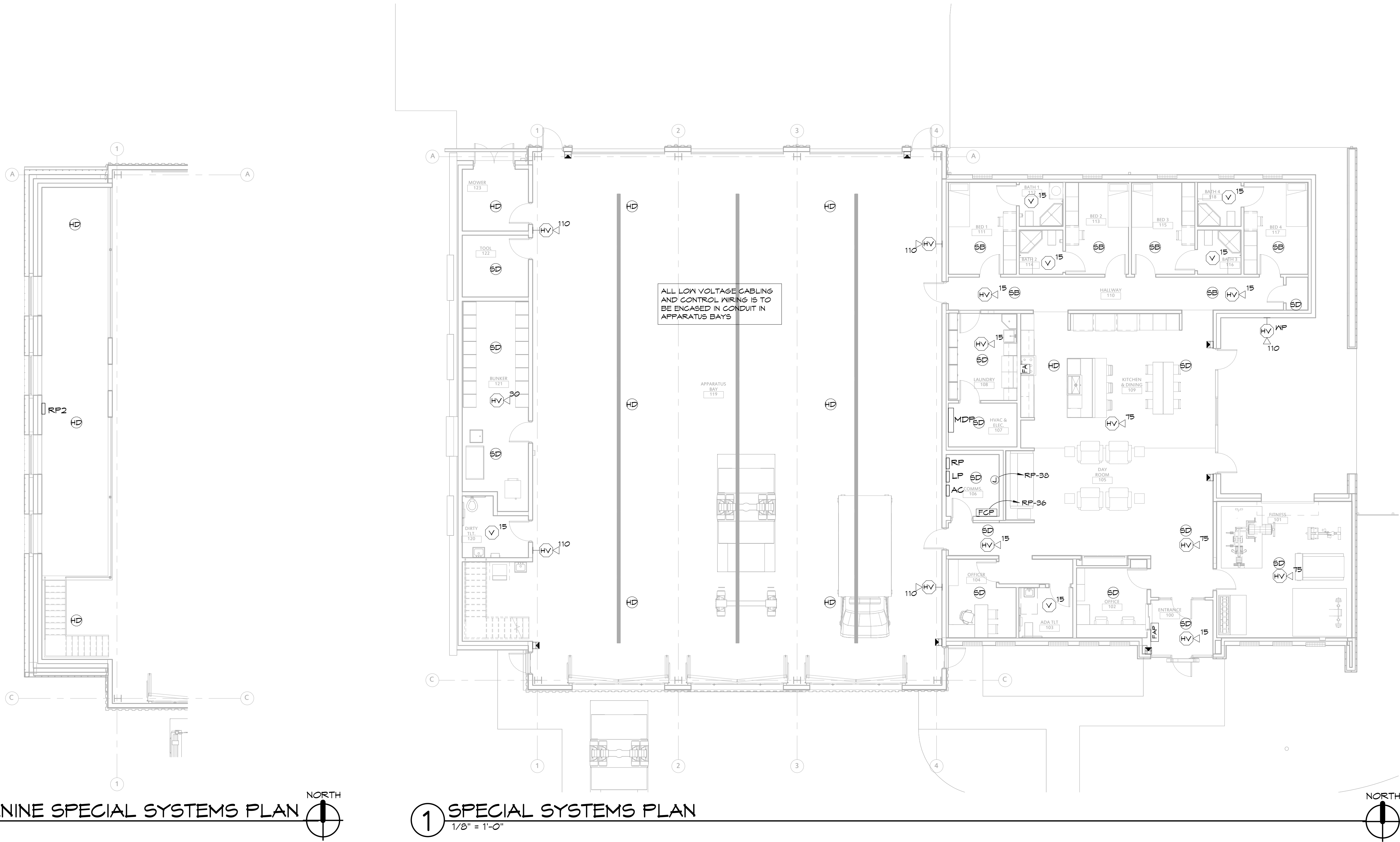
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**SPECIAL
SYSTEMS PLAN**

SHEET
E2.4

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2 MEZZANINE SPECIAL SYSTEMS PLAN
1/8" = 1'-0"

1 SPECIAL SYSTEMS PLAN
1/8" = 1'-0"



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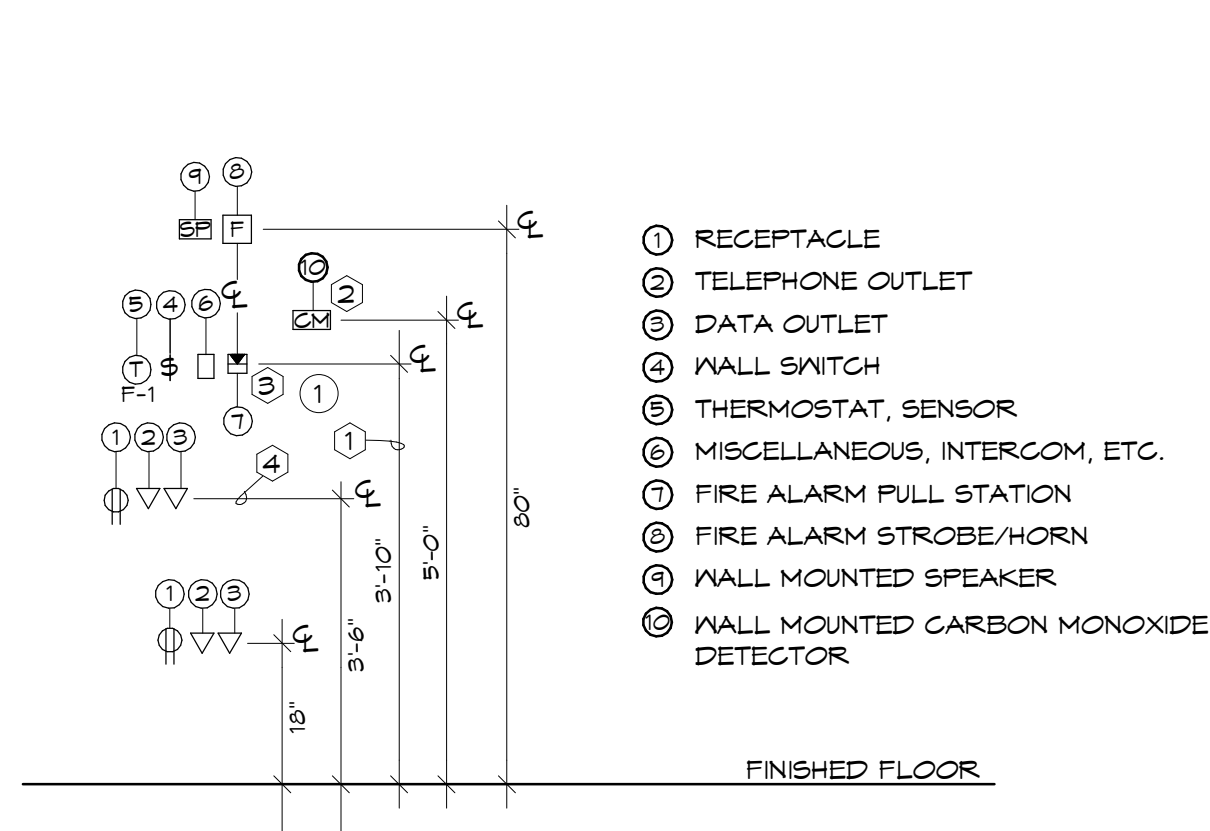
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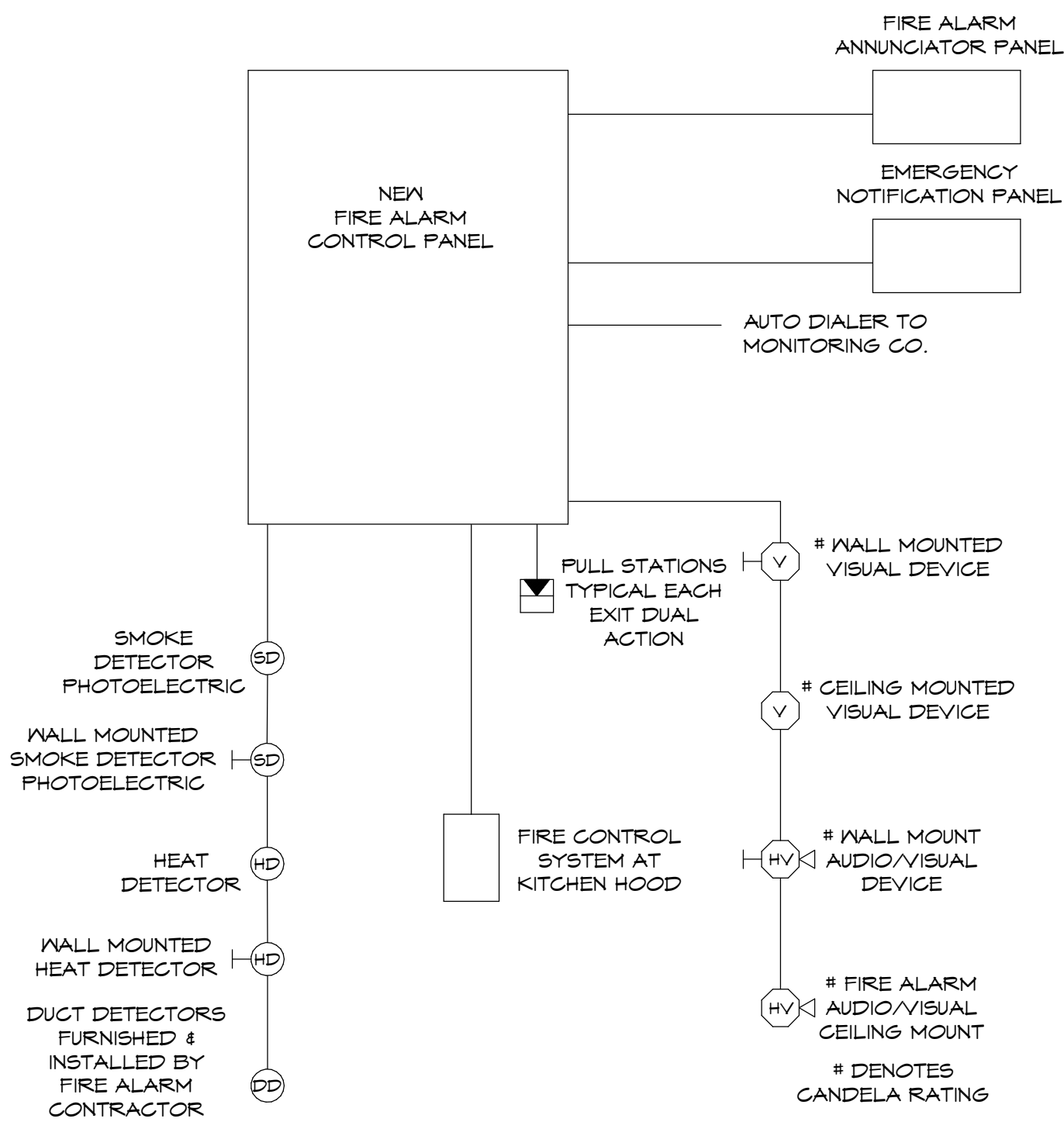
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**ELECTRICAL
DETAILS**

SHEET
E3.1

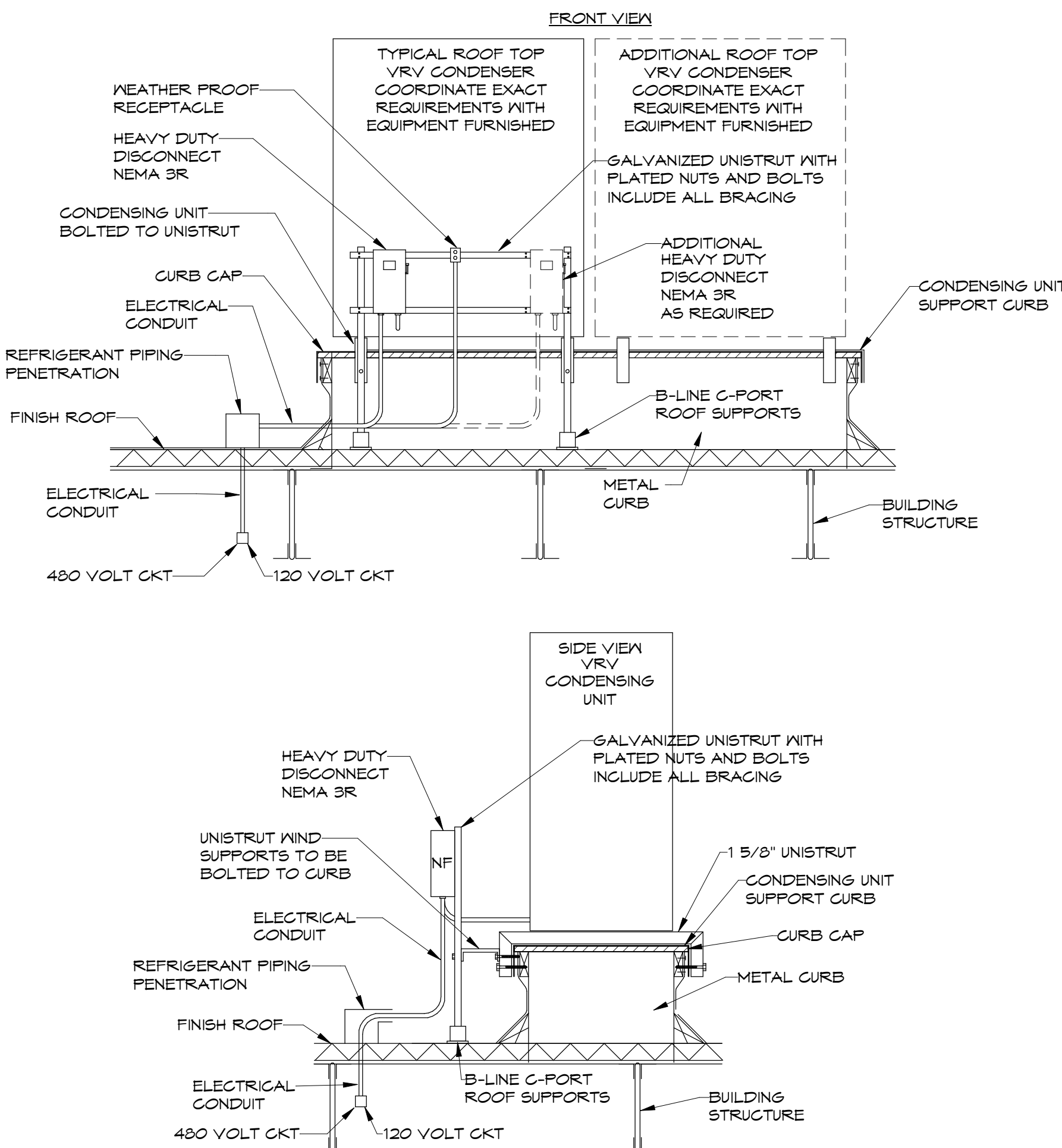
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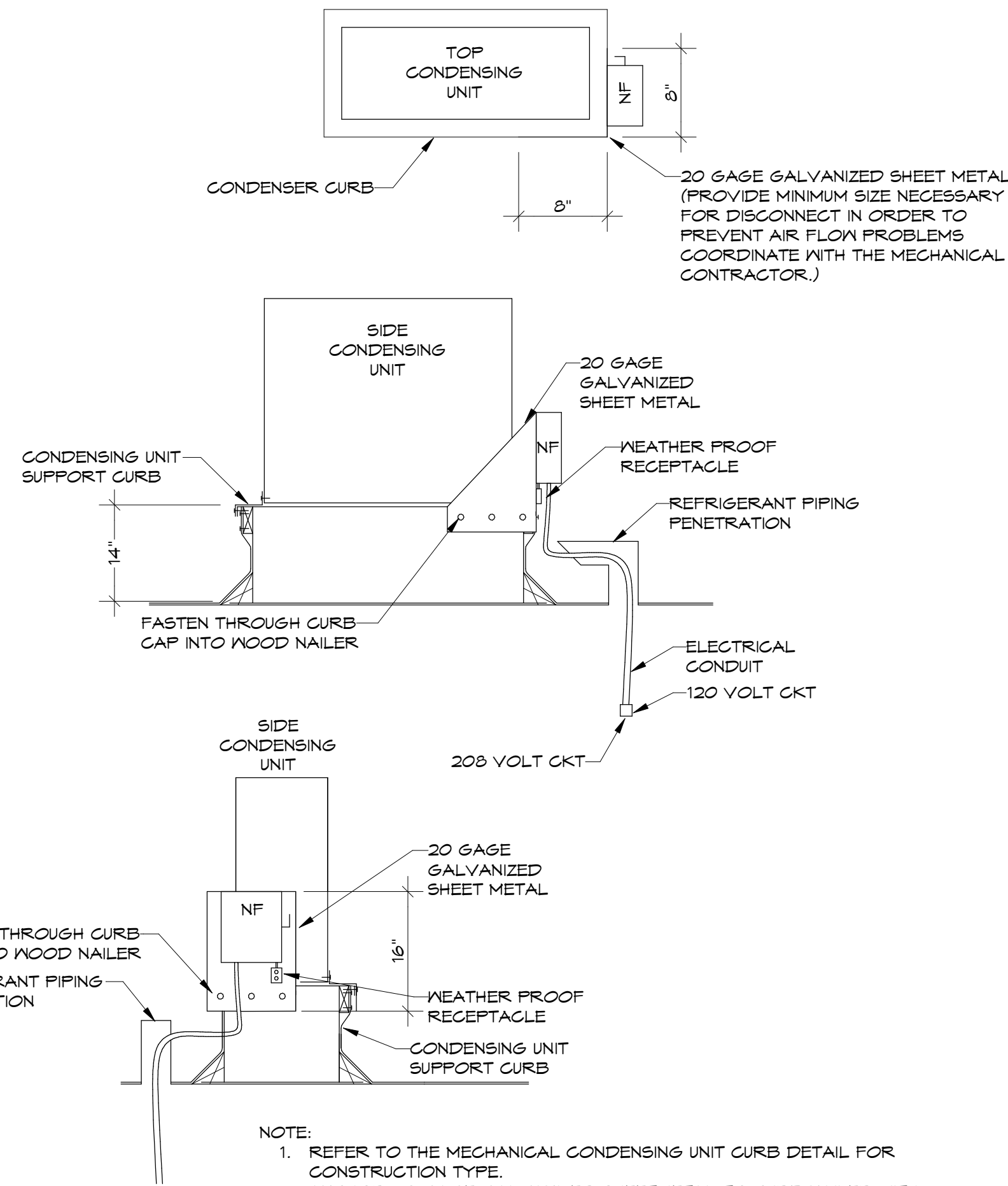
- 1 MOUNTING HEIGHT DETAIL**
N.T.S.
- NOTE:**
1. ALL DEVICES SHOWN MAY NOT BE USED.
 2. DETAIL INDICATES TYPICAL MOUNTING HEIGHTS ONLY.
 3. DEVICES SHALL BE INSTALLED PLUMB, SQUARE AND TRUE.
 4. ALL DEVICES INSTALLED AT A SINGLE LOCATION SHALL BE ALIGNED U.N.O.
 5. COORDINATE ALL MOUNTING HEIGHTS WITH ARCHITECT.
- 1. MOUNTING HEIGHT KEYED NOTE:**
1. 4'-0" MAXIMUM TO TOP OF DEVICE UNLESS LOCATED ABOVE OBSTRUCTION (OR NOTED OTHERWISE) THEN MAXIMUM 4" ABOVE THE OBSTRUCTION. COORDINATE WITH MILLWORK.
 2. MOUNT NEAR RETURN AIR GRILLE.
 3. THE HEIGHT OF THE MANUAL FIRE ALARM BOXES SHALL BE A MINIMUM OF 42" AND A MAXIMUM OF 48" MEASURED VERTICALLY, FROM THE FLOOR LEVEL TO THE ACTIVATING HANDLE OR LEVER OF THE BOX.
 4. ABOVE COUNTER MOUNTED DEVICES. INSTALL DEVICES ABOVE BACKSPLASH AND COORDINATED WITH MILLWORK. DATA/TELEPHONE DEVICES SHOWN ADJACENT TO ABOVE COUNTER RECEPTACLES TO BE TO BE MOUNTED AT SAME HEIGHT.



- 2 FIRE ALARM SYSTEM RISER DIAGRAM**
N.T.S.
- NOTE:**
1. INSTALL WIRING TO ALL DUCT DETECTORS. REFER TO SPECIAL SYSTEMS PLANS.
 2. COORDINATE WITH THE MECHANICAL DRAWINGS.
 3. COORDINATE WITH THE LOCAL "A.H.J." PRIOR TO BIDDING THIS PROJECT.
 4. FIRE ALARM CONTRACTOR TO MODIFY AS NECESSARY FOR SYSTEM PROVIDED.
 5. FIRE ALARM CONTRACTOR TO PROVIDE DETECTION AND RELEASE OF PREACTING FIRE SUPPRESSION SYSTEM. COORDINATE WITH FIRE SUPPRESSION CONTRACTOR TO PROVIDE ALL COMPONENTS FOR A COMPLETE AND WORKING SYSTEM.

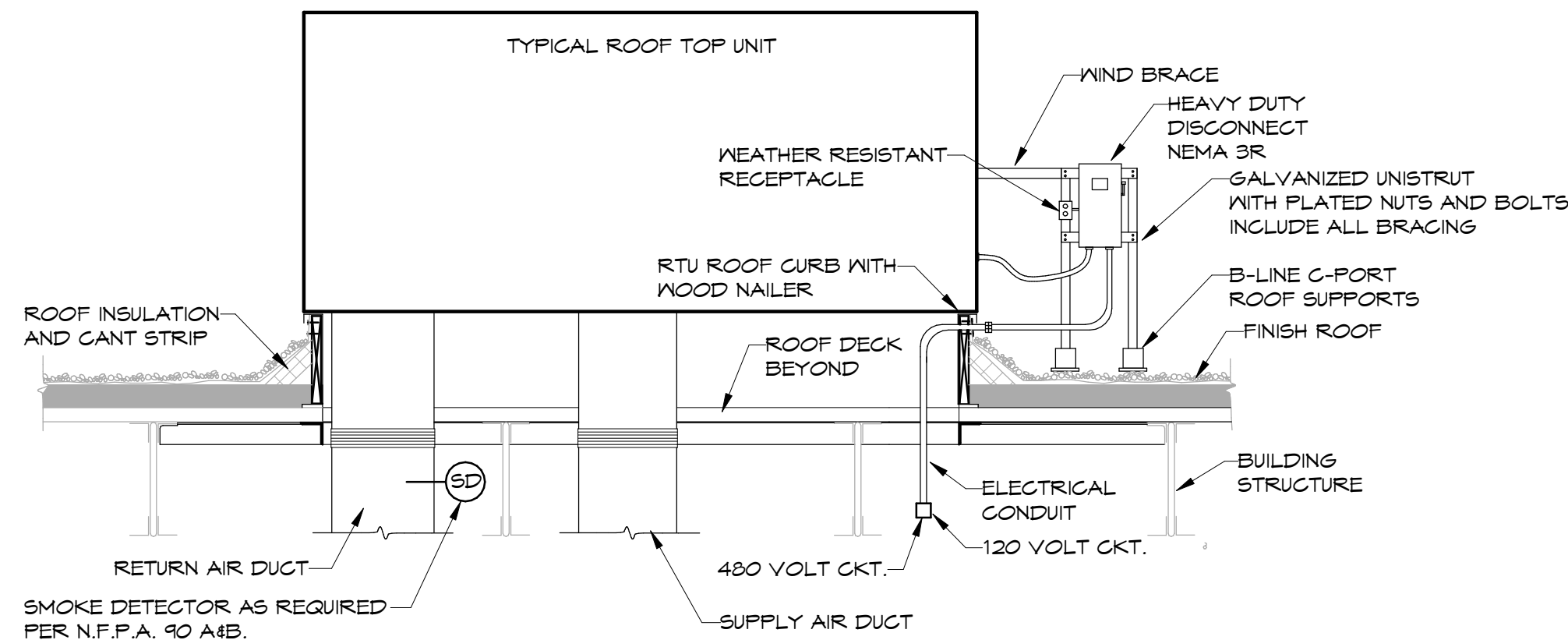


4 VRY CONDENSING UNIT DETAIL
N.T.S.



5 ROOFTOP CONDENSING UNIT DISCONNECT
N.T.S.

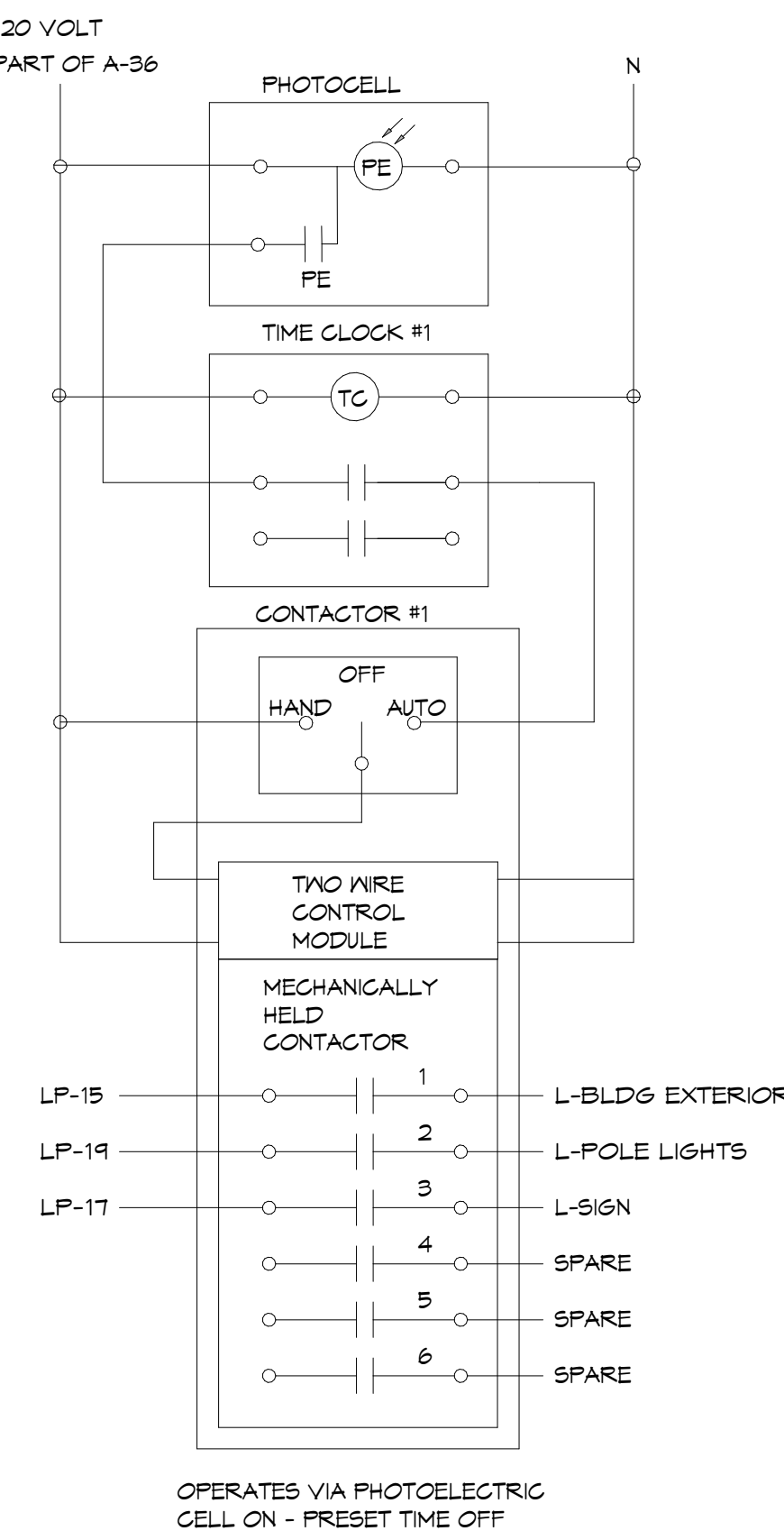
- NOTE:**
1. REFER TO THE MECHANICAL CONDENSING UNIT CURB DETAIL FOR CONSTRUCTION TYPE.
 2. ANCHOR 20 GAGE GALVANIZED SHEETMETAL TO CURB NAILER WITH STAINLESS STEEL LAGBOLTS AND WASHERS. (MIN. OF 6 PER CONDENSER)
 3. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING ALL ELECTRICAL DEVICES SHOWN IN THIS DETAIL. THIS IS TO INCLUDE: DISCONNECT AND SUPPORT, CONDUIT AND CONDUCTOR, RECEPTACLE, AND JUNCTION BOXES.



3 ROOF TOP UNIT DETAIL
N.T.S.

LIGHTING CONTACTOR SCHEDULE								
MARK	EQUIPMENT SERVED	CIRCUITS	COIL VOLTAGE	CONTROLLED BY	TYPE	AMP	ENCLOSURE	ACCESSORIES
LC1	LP-13, LP-15, LP-19	BLDG EXTERIOR POLE LIGHTS SIGN LIGHT	120	TIME CLOCK	MECH HELD	30	NEMA 1	HOA TWO WIRE CONTROL MODULE

- NOTES:**
1. PHOTOELECTRIC CELL SHALL BE INTERMATIC #K4121M, WITH ADJUSTABLE SENSITIVITY, OR EQUAL. THE CONTRACTOR SHALL ADJUST DURING NIGHT HOURS TO INSURE PROPER OPERATION.
 2. PROVIDE ALL ACCESSORIES AND HARDWARE FOR A WORKING INSTALLATION.
 3. MOUNT PHOTOELECTRIC CELL FACING NORTH. AVOID ALL ARTIFICIAL LIGHT SOURCES.



6 LIGHTING CONTACTOR DETAIL
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LIGHTING FIXTURE SCHEDULE											
MARK	VOLT	WATT	LAMP		MOUNTING				MANUFACTURER	CATALOG NO.	REMARKS
			COLOR	TYPE	BRKT	PEND	REC	SURF			
A1	UNV	34	3500K	LED			X		METALUX	22CG6B-30-L834-FA	2X2 TROFFER - 3000 LUMENS
B1	UNV	10	3500K	LED				X	HALO	HCCS10D010[FINISH] / HM40S25035 / 41MDH	4IN ROUND SURFACE MOUNTED CYLINDER FIXTURE, MOUNT BOTTOM OF CYLINDER EVEN WITH BOTTOM OF JOIST.
CF	UNV	50	--	LED				X	OXYGEN	JUNO 3-109-[FINISH] / 3-9-109-[FINISH]	CEILING FAN WITH LIGHT KIT INTERIOR RATED
CF2	UNV	25	--	LED				X	OXYGEN	SOLIS 3-107-[FINISH]	CEILING FAN WITHOUT LIGHT KIT EXTERIOR RATED
RF	UNV	25	--	LED				X	OXYGEN	CODA 3-103-[FINISH]	CEILING FAN WITH LIGHT KIT INTERIOR RATED
D1	UNV	20	3500K	LED			X		HALO	PR4FS12D010 / PR4M12MD8FS[FINISH]	4IN ROUND DOWNLIGHT - SET AT 1500 LUMENS
D2	UNV	20	3500K	LED			X		HALO	PR4FS12D010 / PR4M12MD8FS[FINISH]	4IN ROUND DOWNLIGHT - SET AT 2000 LUMENS
D3	UNV	20	3500K	LED			X		PORTFOLIO	PR4FS12D010 / PR4M12MD8FS[FINISH]	4IN ROUND SHOWER LIGHT - SET AT 1500 LUMENS
F1	UNV	31	3500K	LED		X		X	METALUX	4SNLED-LD5-LN-41SL-UNV-L835-CD1-U	4FT STRIP FIXTURE
G6	UNV	65	3500K	LED			X		STARTEK	W5-RBEAM-6-350-SD-35K-80-PN-DWCB-[FINISH]-U-1C	6FT RECESSED LINEAR IN ALCOVE PROVIDE GYP BOARD CEILING FLANGE
G16	UNV	130	3500K	LED			X		STARTEK	W5-RBEAM-16-750-SD-35K-80-PN-TBX-U-1C	16FT RECESSED LINEAR IN GRID CEILING
H1	UNV	164	4000K	LED		X			METALUX	SPHB-1224SE-M-UNV-L84050-CD-SP1-U / Y - T06GLE-10FT-2FK	HIGH BAY FIXTURE - SET AT HIGH OUTPUT. SUSPEND TO A HEIGHT THAT IS EVEN WITH THE BOTTOM OF THE RADIANT HEATERS
L3	UNV	16	3500K	LED			X		NULITE	RF2-D-ST-F-03-L-35-UNV-D-1-1-[FINISH]-NL-3	3FT LINEAR FOR EXTERIOR
L6	UNV	32	3500K	LED			X		NULITE	RXT-F-D-FF-05-L-40-UNV-D-1-1-[FINISH]-6	6FT LINEAR FOR EXTERIOR
M1	UNV	23	3000K	LED				X	OXYGEN	3-5012-[FINISH]	VANITY FIXTURE CENTER OVER MIRROR
N1	UNV	9	2700K	LED			X		BLUX	729112U	WALL MOUNT READING LIGHT WITH INTEGRAL SWITCH CENTER OVER BED. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE ARCHITECT
P2	UNV	42	3500K	LED		X			OXYGEN	3-803-[FINISH]	STATEMENT PENDANT AT ENTRY
P3	UNV	65	3500K	LED		X			LUMINI	RUN-96N-HE48MO-35K-F-D-5-[FINISH] / PDCU-D-60-24	PENDANT OVER KITCHEN ISLAND. COORDINATE MOUNTING HEIGHT WITH THE ARCHITECT
R	UNV	40	4000K	LED				X	LIGMAN	UJE-30391-39N-M-N40-[FINISH]-120/2TTV-RPA	FLAG POLE LIGHT, INTERNAL DRIVER, NET LOCATION RATED, 83 DEGREE REFLECTOR, 0-10V DIMMING, COORDINATE FLAG POLE DIAMETER WITH THE GENERAL CONTRACTOR/ARCHITECT PRIOR TO ORDERING. MOUNT AT 15'6" OR JUST PRIOR TO START OF TAPER ON FLAG POLE.
R1	UNV	5	3000K	LED			X		SATCO/NIVO	NIVO 65-404	STEP LIGHT
S1	UNV	121	3000K	LED					MCGRAW EDISON	GALN-SA4-G-740-U-T4FT-[FINISH]-HSS / AV R55-204-11	POLE MOUNT AREA LIGHT PROVIDE 20' ROUND TAPERED STEEL POLE
U1	UNV	8	4000K	LED			X		PRECISE	LMMT-LN-16-8N-120-90-CT	UNDERCABINET FIXTURE
N1	UNV	12	4000K	LED			X		TMS LIGHTING	D16-12LED-4000K-120V-NM-[FINISH]	EXTERIOR SIGN LIGHT CENTER OVER SIGN, COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE ARCHITECT
N4	UNV	15	3000K	LED			X		OXYGEN	REFLEX 3-504-[FINISH]	EXTERIOR ARCHITECTURAL WALL SCONCE
N5	UNV	19	4000K	LED			X		TMS LIGHTING	CYU-O-6-19LED2-40K-120-[FINISH]	UP-DOWN CYLINDER
NP1	UNV	135	4000K	LED			X		LUMARK	15T-SA1C-740-U-T4N-[FINISH]	WALL PACK COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN
EXIT	UNV	5	--	LED			X		METALUX	AUX36	EXIT SIGN - SEE PLANS FOR NUMBER OF SIDES AND CHEVRONS
E	UNV	10	4000K	LED			X		NULITE	RXT-N-FF-09-L-40-UNV-D-1-B15-MR-2	EMERGENCY EGRESS CENTER OVER DOOR, 2' LONG WALL MOUNTED LINEAR FIXTURE. COORDINATE MOUNTING HEIGHT WITH THE ARCHITECT. PROVIDE WITH BATTERY BACK UP.

NOTE : HOLD ALL INSULATION OFF RECESSED FIXTURES AT A MINIMUM OF 3" TO THE SIDE.
NOTE : EXIT LIGHTS AND EMERGENCY LIGHTS REQUIRES UNSWITCHED HOT WIRE PER MANUFACTURER RECOMMENDATION.
NOTE : FIXTURES MARKED AS "CTBS" REQUIRE STANDARD FINISHED SELECTED BY THE ARCHITECT.
NOTE : FOR ALL FIXTURES WITH 0-10V DIMMING, PROVIDE LOW VOLTAGE CABLE.
NOTE : FIXTURES MARKED NL REQUIRE UNSWITCHED HOT WIRE.
NOTE : ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL LED AND DRIVER COMBINATIONS THAT WILL PROVIDE THE OWNER WITH A FIVE YEAR WARRANTY ON THE FIXTURE.
NOTE : EM FIXTURES REQUIRE EMERGENCY BATTERY PACKS.
NOTE : FIELD VERIFY ALL FIXTURE LENGTHS NOTES AS LENGTH PER PLANS. PROVIDE CONTINUOUS RUNS OF FIXTURES. COORDINATE WITH THE ARCHITECTURAL DRAWINGS AND THE ARCHITECT.

SWITCHBOARD SCHEDULE											
Panel Name: MDP				Manufacturer: SQUARE D				Fault Current: 65 KAIC			
Amp Rating: 800 A				Panel Type: I-LINE				Ground Fault Breaker:			
Mains: MLO				Remarks: CU BUS				Shunt Trip Breaker:			
MCB Rating: N/A								Location: HVAC & ELEC. 107			
Volts/Phase/Wire: 120/208 Wye / 3 / 4											
CKT	Circuit Description			Breaker	Poles	A	B	C	Remarks		
1	PANEL LP			100 A	3	4148 VA	2452 VA	1328 VA	REFER TO ELECTRICAL RISER FOR CONDUIT AND WIRE SIZE		
2	PANEL RP			225 A	3	14135 VA	13410 VA	12060 VA	REFER TO ELECTRICAL RISER FOR CONDUIT AND WIRE SIZE		
3	PANEL AC			400 A	3	46213 VA	44840 VA	44168 VA	REFER TO ELECTRICAL RISER FOR CONDUIT AND WIRE SIZE		
4	PANEL RP2			225 A	3	17316 VA	17416 VA	19608 VA	REFER TO ELECTRICAL RISER FOR CONDUIT AND WIRE SIZE		
5	Spare			200 A	3	0 VA	0 VA	0 VA	---		
6	Spare			100 A	3	0 VA	0 VA	0 VA	---		
7	Space			--	3	--	--	--	---		
8	SPD			--	3	--	--	--	---		
				Total Conn. Load:		81808 VA	78632 VA	77141 VA			
				Total Amps:		684 A	657 A	643 A			
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals	
Lighting				7052 VA		125.00%		8815 VA			
Receptacle				49580 VA		60.24%		29240 VA		Total Conn. Load: 237580 VA	
HVAC				101130 VA		100.00%		101130 VA		Total Est. Demand: 214530 VA	
Motor				7488 VA		100.00%		7488 VA		Total Conn. Current: 661 A	
Other				68007 VA		100.00%		68007 VA		Total Est. Demand Current: 595 A	
Kitchen				0 VA		0.00%		0 VA			
Notes:											

PANEL SCHEDULE																							
Panel Name: AC								Manufacturer: SQUARE D								Fault Rating: SERIES							
Amp Rating: 400 A								Panel Type: NG								Fed From: MDP							
Mains: MLO								Mounting: Surface								Location: COMMS. 106							
MCB Rating: N/A								Remarks: CU BUS															
Volts/Phase/Wire 120/208 Wye / 3 / 4																							
Circuit Description		COND. SIZE	WIRE SIZE	GRD. SIZE	# OF WIRES	POLES	TRIP	CKT	A		B		C		CKT	TRIP	POLES	# OF WIRES	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description	
EH-5 DIRTY TLT		%	12	12	4	2	20	1	1500	905					2	15	2	4	12	12	%	MS-CU-1 ROOF & MS-1 INDOOR	
---		--	--	--	--	--	--	3			1500	905			4	--	--	--	--	--	--		
EH-4 BUNKER		%	12	12	4	2	20	5			1500	488		1500	488	6	15	2	4	12	12	%	FC-1 THRU FC-8
---		--	--	--	--	--	--	7	1500	488					8	--	--	--	--	--	--		
EH-3 BUNKER		%	12	12	4	2	20	9			1500	360				10	20	1	3	12	12	%	GAS WATER HEATER ELEC
---		--	--	--	--	--	--	11					1500	360	12	20	1	3	12	12	%	GAS WATER HEATER ELEC	
EH-2 TOOL		%	12	12	4	2	20	13	1500	30000					14	35	3	5	10	8	%	DOAS-1	
---		--	--	--	--	--	--	15			1500	30000			16	--	--	--	--	--	--		
EH-1 MOWER		%	12	12	4	2	20	17					1500	30000	18	--	--	--	--	--	--		
---		--	--	--	--	--	--	19	1500	3710					20	40	3	5	10	8	%	VRF-1	
EF-9 MEZZANINE		%	12	12	3	1	20	21			765	3710			22	--	--	--	--	--	--		
RH-1 & RH-2 BAY		%	12	12	3	1	20	23					1160	3710	24	--	--	--	--	--	--		
RH-3 & RH-4 BAY		%	12	12	3	1	20	25	1160	0					26	40	3	--	--	--	--	Spare	
EF-7		%	10	10	4	2	25	27			1250	0			28	--	--	--	--	--	--		
---		--	--	--	--	--	--	29					1250	0	30	--	--	--	--	--	--		
EF-6		%	10	10	4	2	25	31	1250	0					32	30	3	--	--	--	--	Spare	
---		--	--	--	--	--	--	33			1250	0			34	--	--	--	--	--	--		
EF-8 PLYMOVENT SYSTEM		%	8	10	5	3	35	35					2100	0	36	--	--	--	--	--	--		
---		--	--	--	--	--	--	37	2100	0					38	50	3	--	--	--	--	Spare	
---		--	--	--	--	--	--	39			2100	0			40	--	--	--	--	--	--		
CO/NO2 CONTROLER		%	12	12	3	1	20	41					600	0	42	--	--	--	--	--	--		
HVAC CONTROL PANEL		%	12	12	3	1	20	43	600	0					44	20	3	--	--	--	--	Spare	
Spare		--	--	--	--	--	--	45			0	0			46	--	--	--	--	--	--		
Spare		--	--	--	--	--	--	47					0	0	48	--	--	--	--	--	--		
Spare		--	--	--	--	--	--	49	0	--					50	--	1	--	--	--	--	Spare	
Spare		--	--	--	--	--	--	51			0	--			52	--	1	--	--	--	--	Spare	
Spare		--	--	--	--	--	--	53					0	--	54	--	1	--	--	--	--	Spare	
Spare		--	--	--	--	--	--	55	0	--					56	--	1	--	--	--	--	Spare	
Spare		--	--	--	--	--	--	57			0	--			58	--	1	--	--	--	--	Spare	
Spare		--	--	--	--	--	--	59					0	--	60	--	1	--	--	--	--	Spare	
Total Load:									46213 VA		44840 VA		44168 VA										
Total Amps:									386 A		375 A		368 A										
Load Classification						Connected Load		Demand Factor		Estimated Demand						Panel Totals							
Lighting						0 VA		0.00%		0 VA						Total Conn. Load: 135221 VA Total Est. Demand: 130221 VA							
Receptacle						720 VA		100.00%		720 VA													
HVAC						101130 VA		100.00%		101130 VA						Total Conn. Current: 376 A Total Est. Demand Current: 361 A							
Motor						0 VA		0.00%		0 VA													
Other						28371 VA		100.00%		28371 VA													
Kitchen						0 VA		0.00%		0 VA													
Notes:																							

Panel Name: LP

Amp Rating: 100 A
Mains: MLO
MCB Rating: N/A
Volts/Phase/Wire 120/208 Wye / 3 / 4

PANEL SCHEDULE

Manufacturer: SQUARE D
Panel Type: NQ
Mounting: Surface
Remarks: CU BUS
Fault Rating: SERIES
Fed From: MDP
Location: COMMS. 106

Circuit Description	COND SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A		B		C		CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND SIZE	Circuit Description
L-BED ROOMS & TLTS/SHOWERS	%	12	12	3	1	20	1	998	O					2	20	1	--	--	--	--	Spare
L-DAY, KITCHEN, FITNESS, ENTRY	%	12	12	3	1	20	3			1193	O			4	20	1	--	--	--	--	Spare
L-LAUND, ELEC, COMMS, OFFICE, TLT	%	12	12	3	1	20	5					563	O	6	20	1	--	--	--	--	Spare
L-BAY	%	12	12	3	1	20	7	1645	O					8	20	1	--	--	--	--	Spare
L-BAY	%	12	12	3	1	20	9			1804	O			10	20	1	--	--	--	--	Spare
L-MEZZ, BUNKER, TOOLS, MOWER	%	10	10	3	1	20	11					438	O	12	20	1	--	--	--	--	Spare
* L-WALL PACK	%	10	10	3	1	20	13	920	O					14	20	1	--	--	--	--	Spare
* L-SIGN	%	12	12	3	1	20	15			24	O			16	20	1	--	--	--	--	Spare
L-BACK PORCH	%	12	12	3	1	20	17					338	O	18	20	1	--	--	--	--	Spare
*L-EXTERIOR POLE LIGHT	1	6	8	3	1	20	19	847	O					20	20	1	--	--	--	--	Spare
** L-FLAG POLE	1	10	10	3	1	20	21			9	O			22	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	23					O	O	24	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	25	O	O					26	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	27			O	O			28	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	29					O	O	30	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	31	O	O					32	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	33			O	O			34	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	35					O	O	36	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	37	O	O					38	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	39			O	O			40	20	1	--	--	--	--	Spare
Spare	--	--	--	--	1	20	41					O	O	42	20	1	--	--	--	--	Spare
Total Load:								4148 VA		2952 VA		1328 VA									
Total Amps:								37 A		27 A		11 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	7052 VA	125.00%	8815 VA	
Receptacle	O VA	0.00%	O VA	Total Conn. Load: 8429 VA
HVAC	O VA	0.00%	O VA	Total Est. Demand: 10191 VA
Motor	O VA	0.00%	O VA	Total Conn. Current: 25 A
Other	1404 VA	100.00%	1404 VA	Total Est. Demand Current: 28 A
Kitchen	O VA	0.00%	O VA	

Notes:
* CONTROLLED BY TIME CLOCK, PE CELL, AND LIGHTING CONTACTOR
** CONTROLLED BY PE CELL ONLY.

Panel Name: RP2

Amp Rating: 225 A
Mains: MLO
MCB Rating: N/A
Volts/Phase/Wire 120/208 Wye / 3 / 4

PANEL SCHEDULE

Manufacturer: SQUARE D
Panel Type: NQ
Mounting: Surface
Remarks: CU BUS
Fault Rating: SERIES
Fed From: MDP
Location: MEZZANINE 201

Circuit Description	COND. SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A		B		C		CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND. SIZE	Circuit Description
* R-BAY ICE MACHINE	%	12	12	3	1	20	1	1200	900					2	20	1	3	10	10	%	R-BAY
R-BAY AND TLT	%	12	12	3	1	20	3			540	501			4	20	3	5	10	10	%	OVERHEAD DOOR BAY
EXTRACTOR BUNKER	%	12	12	5	3	15	5					500	501	6	--	--	--	--	--	--	
---	---	---	---	---	---	---	7	500	501					8	--	--	--	--	--	--	
---	---	---	---	---	---	---	9			500	501			10	20	3	5	12	12	%	OVERHEAD DOOR BAY
DRYING CABINET BUNKER	%	8	10	5	3	35	11					4000	501	12	--	--	--	--	--	--	
---	---	---	---	---	---	---	13	4000	501					14	--	--	--	--	--	--	
---	---	---	---	---	---	---	15			4000	501			16	20	3	5	12	12	%	OVERHEAD DOOR BAY
R-BAY AND BUNKER	%	12	12	3	1	20	17					720	501	18	--	--	--	--	--	--	
R-BAY AND TOOL	%	12	12	3	1	20	19	540	501					20	--	--	--	--	--	--	
R-TOOL AND BUNKER	%	12	12	3	1	20	21			360	360			22	20	1	3	10	10	%	R-BAY
R-TOOL	%	12	12	3	1	20	23					360	360	24	20	1	3	12	12	%	R-BAY
R-MOWER	%	12	12	3	1	20	25	360	540					26	20	1	3	12	12	%	R-BAY
R-BAY	%	12	12	3	1	20	27			540	540			28	20	1	3	12	12	%	R-MEZZANINE
OVERHEAD DOOR BAY	%	12	12	5	3	20	29					501	2912	30	60	2	4	8	6	1	BREATHING AIR COMP. MEZZANINE
---	---	---	---	---	---	---	31	501	2912					32	--	--	--	--	--	--	
---	---	---	---	---	---	---	33			501	832			34	20	2	4	12	12	%	AIR COMP. MEZZANINE
OVERHEAD DOOR BAY	%	12	12	5	3	20	35					501	832	36	--	--	--	--	--	--	
---	---	---	---	---	---	---	37	501	600					38	20	1	3	12	12	%	AIR COMPRESSOR AIR DRYER
---	---	---	---	---	---	---	39			501	2100			40	35	3	5	10	8	%	BOOSTER PUMP BAY
OVERHEAD DOOR BAY	%	12	12	5	3	20	41					501	2100	42	--	--	--	--	--	--	
---	---	---	---	---	---	---	43	501	2100					44	--	--	--	--	--	--	
---	---	---	---	---	---	---	45			501	O			46	20	1	--	--	--	--	Spare
R-BAY	%	12	12	3	1	20	47					360	O	48	20	1	--	--	--	--	Spare
R-BAY	%	12	12	3	1	20	49	360	O					50	20	1	--	--	--	--	Spare
R-BAY	%	12	12	3	1	20	51			540	O			52	20	1	--	--	--	--	Spare
R-BAY	%	10	10	3	1	20	53					360	O	54	20	1	--	--	--	--	Spare
R-BAY	%	10	10	3	1	20	55	360	O					56	30	1	--	--	--	--	Spare
R-WELDER	1	6	8	4	2	50	57			4100	O			58	30	2	--	--	--	--	Spare
---	---	---	---	---	---	---	59					4100	O	60	--	--	--	--	--	--	
Total Load:								17376 VA		17416 VA		19608 VA									
Total Amps:								145 A		145 A		163 A									

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Lighting	O VA	0.00%	O VA	
Receptacle	17500 VA	78.51%	13750 VA	Total Conn. Load: 54400 VA
HVAC	O VA	0.00%	O VA	Total Est. Demand: 50650 VA
Motor	7488 VA	100.00%	7488 VA	Total Conn. Current: 151 A
Other	29412 VA	100.00%	29412 VA	Total Est. Demand Current: 141 A
Kitchen	O VA	0.00%	O VA	

Notes:
* REQUIRES A GFI BREAKER.

Panel Name: RP

Amp Rating: 225 A
Mains: MLO
MCB Rating: N/A
Volts/Phase/Wire 120/208 Wye / 3 / 4

PANEL SCHEDULE

Manufacturer: SQUARE D
Panel Type: NQ
Mounting: Surface
Remarks: CU BUS
Fault Rating: SERIES
Fed From: MDP
Location: COMMS. 106

Circuit Description	COND SIZE	WIRE SIZE	GRD. SIZE	# OF Wires	Poles	TRIP	CKT	A		B		C		CKT	TRIP	Poles	# OF Wires	GRD. SIZE	WIRE SIZE	COND SIZE	Circuit Description
ATS HEATER	%	12	12	3	1	20	1	600	720					2	20	1	3	12	12	1	R-DAY ROOM FLOOR
GENERATOR BATTERY CHARGER	%	12	12	3	1	20	3			1200	840			4	20	1	3	12	12	%	R-DAY ROOM FLOOR
GENERATOR BLOCK HEATER	%	10	10	3	1	30	5					2500	720	6	20	1	3	12	12	%	R-OFFICE
R-BED 4	%	12	12	3	1	20	7	1200	840					8	20	1	3	12	12	%	R-OFFICE
R-EXTERIOR, STOR, DINING	%	12	12	3	1	20	9			2400	840			10	20	1	3	12	12	%	R-TLT & OFFICE
R-BATH 3	%	12	12	3	1	20	11					180	180	12	20	1	3	12	12	%	R-OFFICE PRINTER
R-BATH 4	%	12	12	3	1	20	13	180	540					14	20	1	3	12	12	%	R-OFFICE
R-BED 3	%	12	12	3	1	20	15			1020	540			16	20	1	3	12	12	%	R-OFFICE
R-BED 2	%	12	12	3	1	20	17					1020	720	18	20	1	3	12	12	%	R-OFFICE
R-BATH 2	%	12	12	3	1	20	19	180	540					20	20	1	3	12	12	%	R-FITNESS
R-BATH 1	%	12	12	3	1	20	21			180	360			22	20	1	3	12	12	%	R-FITNESS
R-BED 1	%	12	12	3	1	20	23					1020	180	24	20	1	3	12	12	%	R-FITNESS
R-HALL, LAUNDRY, ELEC	%	12	12	3	1	20	25	1920	180					26	20	1	3	12	12	%	R-FITNESS
R-LAUNDRY	%	12	12	3	1	20	27			180	540			28	20	1	3	12	12	%	R-FITNESS
* R-LAUNDRY WASHER	%	12	12	3	1	20	29					1200	180	30	20	1	3	12	12	%	R-FITNESS
* R-LAUNDRY DRYER	%	10	10	4	2	30	31	2250	1860					32	20	1	3	12	12	%	R-FITNESS
---	---	---	---	---	---	---	33			2250	180			34	20	1	3	12	12	%	R-RANGE HOOD
R-COMM	%	12	12	3	1	20	35					360	200	36	20	1	3	12	12	%	*** FIRE ALARM SYSTEM
R-COMM	%	12	12	3	1	20	37	360	600					38	20	1	3	12	12	%	*** ALARM SYSTEM
R-COMM	%	12	12	3	1	20	39			360	0			40	20	1	---	---	---	---	Spare
R-DAY ROOM, COMM	%	12	12	3	1	20	41					1020	0	42	20	1	---	---	---	---	Spare
R-KITCHEN	%	12	12	3	1	20	43	180	0					44	20	1	---	---	---	---	Spare
R-KITCHEN	%	12	12	3	1	20	45			180	0			46	20	1	---	---	---	---	Spare
J-KITCHEN HOOD & EF-11	%	12	12	3	1	20	47					600	0	48	20	1	---	---	---	---	Spare
** R-KITCHEN GAS RANGE	%	12	12	3	1	20	49	180	0					50	20	1	---	---	---	---	Spare
SHUNT TRIP	---	---	---	---	---	---	51			---	0			52	20	1	---	---	---	---	Spare
R-KITCHEN	%	12	12	3	1	20	53					180	0	54	20	1	---	---	---	---	Spare
* R-KITCHEN REFRIG	%	12	12	3	1	20	55	1200	0					56	20	1	---	---	---	---	Spare
* R-KITCHEN REFRIG	%	12	12	3	1	20	57			1200	0			58	20	1	---	---	---	---	Spare
* R-KITCHEN REFRIG	%	12	12	3	1	20	59					1200	0	60	20	1	---	---	---	---	Spare
R-KITCHEN ISLAND	%	12	12	3	1	20	61	360	0					62	20	1	---	---	---	---	Spare
R-KITCHEN ISLAND GARBAGE DISP	%	12	12	3	1	20	63			1200	0			64	20	1	---	---	---	---	Spare
* R-KITCHEN ISLAND DISHWASHER	%	12	12	3	1	20	65					600	0	66	20	1	---	---	---	---	Spare
R-KITCHEN ISLAND	%	12	12	3	1	20	67	360	0					68	20	1	---	---	---	---	Spare
Spare	---	---	---	---	---	20	69			0	0			70	20	1	---	---	---	---	Spare
Spare	---	---	---	---	---	1	71					0	0	72	20	1	---	---	---	---	Spare
Spare	---	---	---	---	---	1	73	0	0					74	20	1	---	---	---	---	Spare
Spare	---	---	---	---	---	1	75			0	0			76	20	1	---	---	---	---	Spare
Spare	---	---	---	---	---	1	77					0	0	78	20	1	---	---	---	---	Spare
Spare	---	---	---	---	---	1	79	0	0					80	20	1	---	---	---	---	Spare
Spare	---	---	---	---	---	1	81			0	0			82	20	1	---	---	---	---	Spare
Spare	---	---	---	---	---	1	83					0	0	84	20	1	---	---	---	---	Spare
Total Load:								14135 VA		13470 VA		12060 VA									
Total Amps:								120 A		114 A		101 A									