

# UPLANDS TOWNHOMES

DEVELOPED BY THE HOUSING AUTHORITY OF PUEBLO

PROJECT No.: I.F.B 17-524-RAD

ACERO AVE. and SPRAGUE AVE., PUEBLO, COLORADO 81004

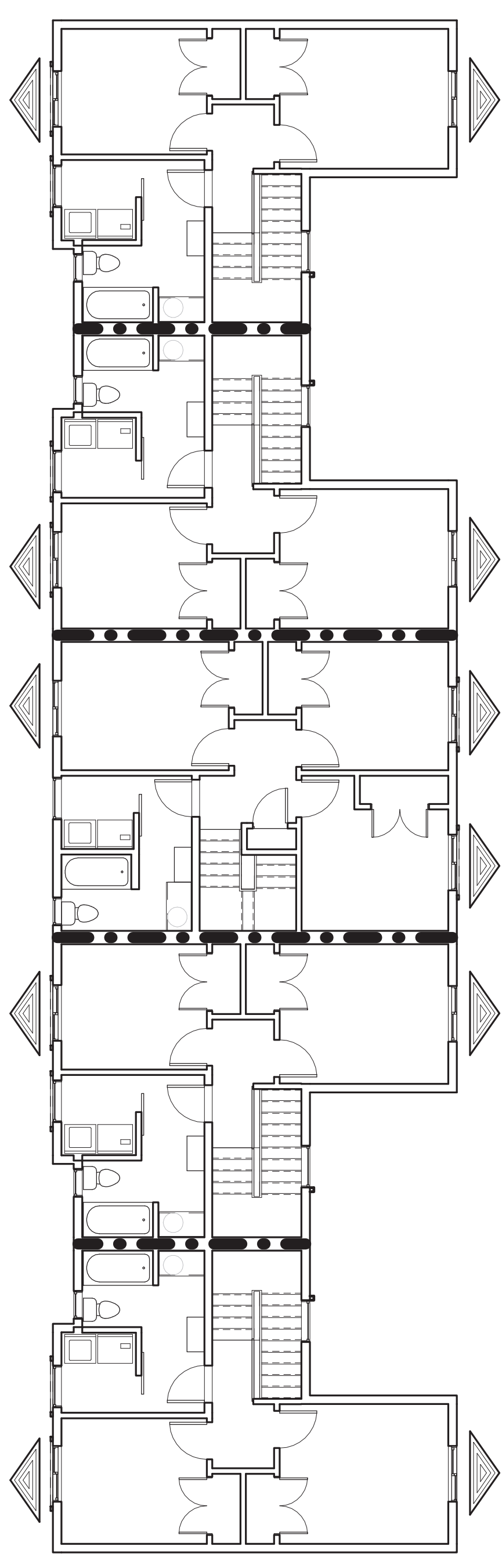
BLDG. C CODE STUDY SUMMARY			
APPLICABLE CODES:	2018 INTERNATIONAL BUILDING CODE UNIFORM FEDERAL ACCESSIBILITY STANDARDS		
PROJECT DESCRIPTION:	NEW CONSTRUCTION - APARTMENT BUILDING		
OCCUPANCY CLASSIFICATION:	R-2 RESIDENTIAL - APARTMENT HOMES		
2018 IBC CHAPTER 3			
TYPE OF CONSTRUCTION:	TYPE V-B WITH 4 FIN. FIRE-SEPARATION DISTANCE OF 10' 0"		
2018 IBC TABLE 601			
FIRE RESISTANCE RATING REQ. FOR BLDG. ELEMENTS:	PRIMARY STRUCTURAL FRAME: 0 NON-BEARING EXTERIOR WALLS: 0 NON-BEARING INTERIOR WALLS: 0 FLOOR CONSTRUCTION: 0 ROOF CONSTRUCTION: 0		
2018 IBC TABLE 601			
TABULAR ALLOWABLE AREA PER FLOOR:	R2 (RIB) AL: 7000	R2 ACTUAL AREA: 3196 SQ. FT. MAX (RIB FL.)	
2018 IBC TABLE 602.3			
TABULAR ALLOWABLE HEIGHT AND STOREYS:	R2 (RIB) 60 FEET; 3 STORY	R2 ACTUAL HEIGHT: 2 STORY; 26 FEET	
2018 IBC TABLE 504.3 and 504.4			
FLOOR AREA GROUPS:	FIRST FLOOR: 3196 SQ. FT.		
2018 IBC SECTION 502 - DENOTIONS	SECOND FLOOR: 2497 SQ. FT.		
OCCUPANT LOAD:	2018 IBC TABLE 1004.1.2		
OCCUPANT:			
FUNCTION OF SPACE:	S.F.	LOAD FACTOR/(PER OCC.)	GROSS/NET
STORAGE - 1M FT.	140 SQ. FT.		GROSS 53
RESIDENTIAL - 1M FT.	200 SQ. FT.		GROSS 14, 89
RESIDENTIAL - 2nd Fl.	2497 SQ. FT.		GROSS 15, 49
			TOTAL 29
ROUNDED: 29			
WALLS SEPARATING DWELLING UNITS FROM EACH OTHER AND WALLS SEPARATING DWELLING UNITS FROM OTHER OCCUPANCIES SHALL BE TYPE B PARTITIONS.			
INCIDENTAL UNITS SEPARATION:	N/A		
2018 IBC SECTION 504, TABLE 509			
CORRIDORS:	N/A		
2018 IBC SECTION 1000			
NUMBER OF EXITS:	2 - EXITS REQUIRE		
2018 IBC TABLE 1004.3.1			
TRAVEL DISTANCE:	R-2 WITH SPRINKLER SYSTEM: 250 FEET; ACTUAL TRAVEL DISTANCE: 54 FEET.		
2018 IBC TABLE 1017.2			
AUTOMATIC SPRINKLER SYSTEM:	REQUIRED - GROUP R OCCUPANCIES SHALL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13C.		
2018 IBC SECTION 420.5			
FIRE ALARM SYSTEM:	R-2, 2 STORY WITH 4 DWELLING UNITS - NOT REQUIRED		
2018 IBC SECTION 507			
ACCESSIBILITY:	R-2 PER IBC, THE ALIANTS, 2% OF TOTAL UNITS ON SITE REQUIRED TO BE TYPE A ACCESSIBLE PER 508 (9% OF TOTAL UNITS ON SITE REQUIRED TO BE ACCESSIBLE (9% TO TYPE B ACCESSIBLE). PER 504.3 (9% OF TOTAL UNITS ON SITE REQUIRED TO BE ACCESSIBLE (9% TO TYPE A or in IBC). TOTAL TYPE A ACCESSIBLE UNITS ON SITE: 6 UNITS (RACIN IN BLDGS. F 1, 0) IN FLOOR OF ALL UNITS ARE TYPE B ACCESSIBLE		
2018 IBC SECTION 1074.2			
IFAS SECTION 4.34			
PURSUING DISTANCE:	2018 IBC TABLE 2001 and 209 IBC TABLE 403.1 and SECT. 403		
PURSUING DISTANCE PER OCCUPANCY TYPE:			
OCCUPANCY TYPE: R2 RESIDENTIAL	REQUIRED	PROVIDED	
	* OF FEATURES REQ.	* OF FEATURES PROVIDED	
W.C./BATHS	1 PER DWELLING UNIT	5	10
LAVATORIES	1 PER DWELLING UNIT	5	10
BATHS/SHOWERS	1 PER DWELLING UNIT	5	5
OTHER FEATURES:	1 KITCHEN PER DWELLING UNIT 1 CLOTHES WARDROBE CONNECTION PER 20 UNITS	5 KITCHENS 1 CLOTHES WARDROBE CONNECTION	5 KITCHENS 5 CLOTHES WARDROBE CONNECTIONS

## CODE STUDY LEGEND

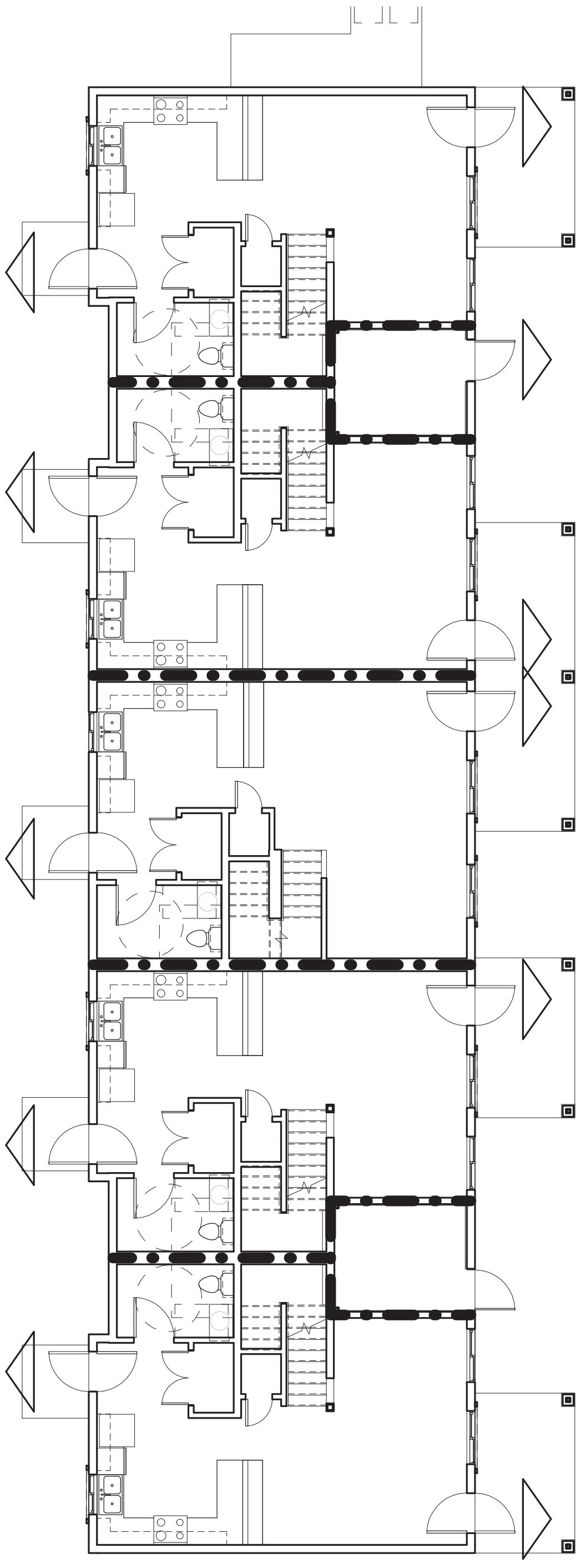
- 1HR RATED FIRE PARTITION - SEPARATION
- ▲ BUILDING EXIT
- ▴ EGRESS/ESCAPE WINDOW

**GENERAL NOTES**

- THIS PROJECT SHALL MEET THE 2018 ENTERPRISE GREEN COMMUNITIES CRITERIA.
- COORDINATE ALL WORK WITH ALL DISCIPLINES INCLUDING, BUT NOT LIMITED TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND CIVIL.
- PROVIDE AND INSTALL 2x6 WD. BLOCKING BETWEEN STUDS AND BEHIND GYP. BD. AS REQUIRED FOR ALL WALL MOUNTED DOOR HOURS, CLOSET SHELVES, TOILET ACCESSORIES, GRAB BARS, VANITY COUNTERTOPS, WALL AND BASE CABINETS, AND BUILDING.
- PROVIDE 3/4" RADIUS BULLNOSE CORNER BEAD AT ALL EXPOSED GYP. BD. OUTSIDE WALL CORNERS ON INTERIORS OF BUILDINGS.
- BUILDINGS SHALL BE PROVIDED WITH AUTOMATIC FIRE SUPPRESSION SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13R. EACH UNIT SHALL HAVE A FIRE EXTINGUISHER INSTALLED ON THE FIRST FLOOR. EACH STORAGE ROOM AND WATER ENTRY ROOM SHALL HAVE A FIRE EXTINGUISHER INSTALLED IN THE ROOM.
- NORTH ARROW NOT SHOWN ON FLOOR PLANS.
- THE PORCH ELEVATIONS OF ALL BUILDINGS SHALL BE ORIENTED TO FACE THE STREET.



2nd Floor CODE STUDY -  
2 BLDG. C  
SC: 1/8" = 1'-0"  
RE: A3.1A



1st Floor CODE STUDY -  
1 BLDG. C  
SC: 1/8" = 1'-0"  
RE: A3.1A

BUILDING C SHEET INDEX	
GI.0C	BUILDING C COVER, CODE STUDY, INDEX
A1.C	BUILDING C FLOOR PLANS
A2.C	BUILDING C REFLECTED CEILING and ROOF PLANS
A3.C	BUILDING C ELEVATIONS
A4.C	BUILDING C SECTIONS, STAIR WALL INT. ELEVATION, and RADON VENT DETAIL
A3.2C	BUILDING C WALL SECTIONS
A4.1C	BUILDING C DOOR and WINDOW SCHEDULES, ELEVATIONS and DETAILS
A5.1C	BUILDING C FINISH SCHEDULE and INTERIOR ELEVATIONS
A5.2C	BUILDING C INTERIOR ELEVATIONS
S1C	FOUNDATION and MAIN FLOOR FRAMING PLANS
S2C	UPPER LEVEL and ROOF FRAMING PLANS
S3C	DETAILS and GENERAL NOTES
M1.C	DRAWING INDEX, GENERAL NOTES, LEGENDS and SCHEDULES
M1.1C	FIRST and SECOND FLOOR - BUILDING C - HVAC
P1.C	SCHEDULES and DIAGRAMS
P1.1C	CRAIL SPACE FLOOR - BUILDING C - PLUMBING
P1.2C	FIRST and SECOND FLOOR PLANS - BUILDING C - PLUMBING
E1.CC	BLDG C - ELECTRICAL, LEGENDS and SERVICE DIAGRAMS
E1.C	BLDG C - ELECTRICAL PLANS

## PROJECT TEAM

**OWNER:**  
THE HOUSING AUTHORITY OF PUEBLO  
201 S. VICTORIA  
PUEBLO, CO 81003  
PH: 719-586-8976

**ARCHITECT:**  
POLIC ARCHITECTS, INC.  
2402 N. ELIZABETH ST.  
PUEBLO, COLORADO 81003  
PH: 719-543-7600  
FX: 719-545-2910

**ELECTRICAL ENGINEER:**  
AE ASSOCIATES  
208 JEFFERSON SUITE 200  
COLORADO SPRINGS, CO 80907  
PH: 719-262-9430

**MECHANICAL ENGINEER:**  
MECHANICAL ENGINEERS  
911 S. 8TH ST. SUITE 200  
COLORADO SPRINGS, CO 80906  
PH: 719-633-2637

**STRUCTURAL ENGINEERS:**  
VALENTINE ENGINEERING  
415 N. GREENWOOD  
PUEBLO, CO 81003  
PH: 719-542-9230

**CIVIL ENGINEERS - CONSULTANTS:**  
CIVIL ENGINEERS  
201 E. LAS ANIMAS #113  
COLORADO SPRINGS, CO 80903  
PH: 719-231-3959

### DRAWING LEGEND

DR	DOOR TAG
WR	WINDOW TAG
WT	WALL TYPE TAG
FN	FLAG NOTE
Room name	ROOM NAME and NUMBER TAG
CE	CEILING TYPE TAG
0'-00"	CEILING HEIGHT TAG



TYPE MARK	DESCRIPTION	FIRE RATING	STC RATING
1	BEARING FIRE PARTITION SEPARATION WALL (2) LAYERS 1" GYP. BD. FRATED INSIDE OF 7" TTL. CURRERS WITH 3/4" AIR SPACE AND 2x6 WD. BRG. SIDES PROVIDE 5" MINERAL WOOL BATT. INSULATION IN CAVITY OF FRG. PROVIDE AIR CHAMBER, GYP. BD. AND 3/4" AIRSPACE CORE SHALL RUN FROM TOP OF FOUNDATION TO UNDERSIDE OF FLOOR/ROOF SHEATHING. PROVIDE FULL HEIGHT INSULATION IN CAVITY.	HR	50
2	FIRE PARTITION SEPARATION WALL: 2x4 WD. FRG. at 16" O.C. WITH 5/8" TYPE "X" GYP. ON ONE SIDE AND 5/8" TYPE "X" GYP. ON OTHER SIDE. BRG. ON OTHER SIDE OF FRG. RUN FULL HEIGHT TO UNDERSIDE OF FLOOR/ROOF SHEATHING. PROVIDE FULL HEIGHT INSULATION IN CAVITY.	HR	N/A
3	FIRE PARTITION SEPARATION WALL: 2x4 WD. FRG. at 16" O.C. WITH 5/8" TYPE "X" GYP. ON ONE SIDE AND 5/8" TYPE "X" GYP. ON OTHER SIDE. BRG. ON OTHER SIDE OF FRG. RUN FULL HEIGHT TO UNDERSIDE OF FLOOR/ROOF SHEATHING. PROVIDE FULL HEIGHT INSULATION IN CAVITY.	HR	N/A
4	FIRE PARTITION SEPARATION WALL: 2x4 WD. STUDS at 24" O.C. WITH 1/2" SOUNDBOARD AND 5/8" TYPE "X" GYP. BOTH SIDES WITH FIBERGLASS BATT. INSULATION IN CAVITY. PROVIDE FULL HEIGHT INSULATION ABOVE OR UNTIL IT BECOMES AN EXTERIOR WALL. UL DES. NO. U387.	N/A	N/A
5	FIRE PARTITION SEPARATION WALL: 2x6 WD. STUDS at 24" O.C. WITH 1/2" SOUNDBOARD AND 5/8" TYPE "X" GYP. BOTH SIDES WITH FIBERGLASS BATT. INSULATION IN CAVITY. PROVIDE FULL HEIGHT INSULATION ABOVE OR UNTIL IT BECOMES AN EXTERIOR WALL. UL DES. NO. U387.	N/A	N/A
6	2x4 WD. STUDS at 16" O.C. WITH 5/8" TYPE "X" GYP. BOTH SIDES FROM TOP OF FLOOR SHEATHING TO UNDERSIDE OF FLOOR/ROOF SHEATHING. PROVIDE FULL HEIGHT INSULATION IN CAVITY.	N/A	N/A
7	2x4 WD. STUDS at 16" O.C. WITH 5/8" TYPE "X" GYP. BOTH SIDES FROM TOP OF FLOOR SHEATHING TO UNDERSIDE OF FLOOR/ROOF SHEATHING. PROVIDE FULL HEIGHT INSULATION IN CAVITY.	N/A	N/A
8	PORTLAND CEMENT STUCCO SYSTEM RE: SPECIFICATIONS FOR FIBER CEMENT LAP SIDING FROM FOUNDATION TO UNDERSIDE OF ROOF SHEATHING. PROVIDE 1/2" GYP. BOARD AT 16" O.C. RILL HEIGHT TO ROOF STRUCTURE WITH 5/8" TYPE "X" INSULATION IN WALL CAVITIES FULL HEIGHT. ELEVATIONS.	N/A	N/A
9	2x6 WD. STUDS at 16" O.C. WITH 5/8" TYPE "X" GYP. BOTH SIDES WITH FIBERGLASS BATT. INSULATION IN CAVITY. PROVIDE FULL HEIGHT INSULATION ABOVE OR UNTIL IT BECOMES AN EXTERIOR WALL. UL DES. NO. U387.	N/A	N/A
10	2x4 WD. STUDS at 16" O.C. WITH 5/8" TYPE "X" GYP. BD. BOTH SIDES RUN TO UNDERSIDE OF COUNTERTOP ABOVE RE INTERIOR SUPPLING STAIRS WALL. 2x4 WD. STUDS at 16" O.C. WITH 5/8" TYPE "X" GYP. BD. BOTH SIDES WITH FIBERGLASS BATT. INSULATION IN CAVITY.	N/A	N/A
11	SLOPING STAIR WALL: 2x6 WD. STUDS at 16" O.C. WITH 5/8" TYPE "X" GYP. BD. BOTH SIDES WITH FIBERGLASS BATT. INSULATION IN CAVITY. PROVIDE FULL HEIGHT INSULATION IN CAVITY.	N/A	N/A
12	SLOPING STAIR WALL: 2x6 WD. STUDS at 16" O.C. WITH 5/8" TYPE "X" GYP. BD. BOTH SIDES WITH FIBERGLASS BATT. INSULATION IN CAVITY. PROVIDE FULL HEIGHT INSULATION IN CAVITY.	N/A	N/A
13	SLOPING STAIR DOUBLE STUD WALL: 2x4 WD. STUDS at 16" O.C. WITH 5/8" TYPE "X" GYP. BD. BOTH SIDES WITH FIBERGLASS BATT. INSULATION IN CAVITY. PROVIDE FULL HEIGHT INSULATION IN CAVITY.	N/A	N/A
14	2x4 WD. STUDS at 24" O.C. FROM TOP OF FLOOR SHEATHING TO UNDERSIDE OF STAIR STRUCTURE.	N/A	N/A

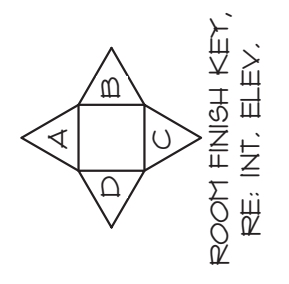
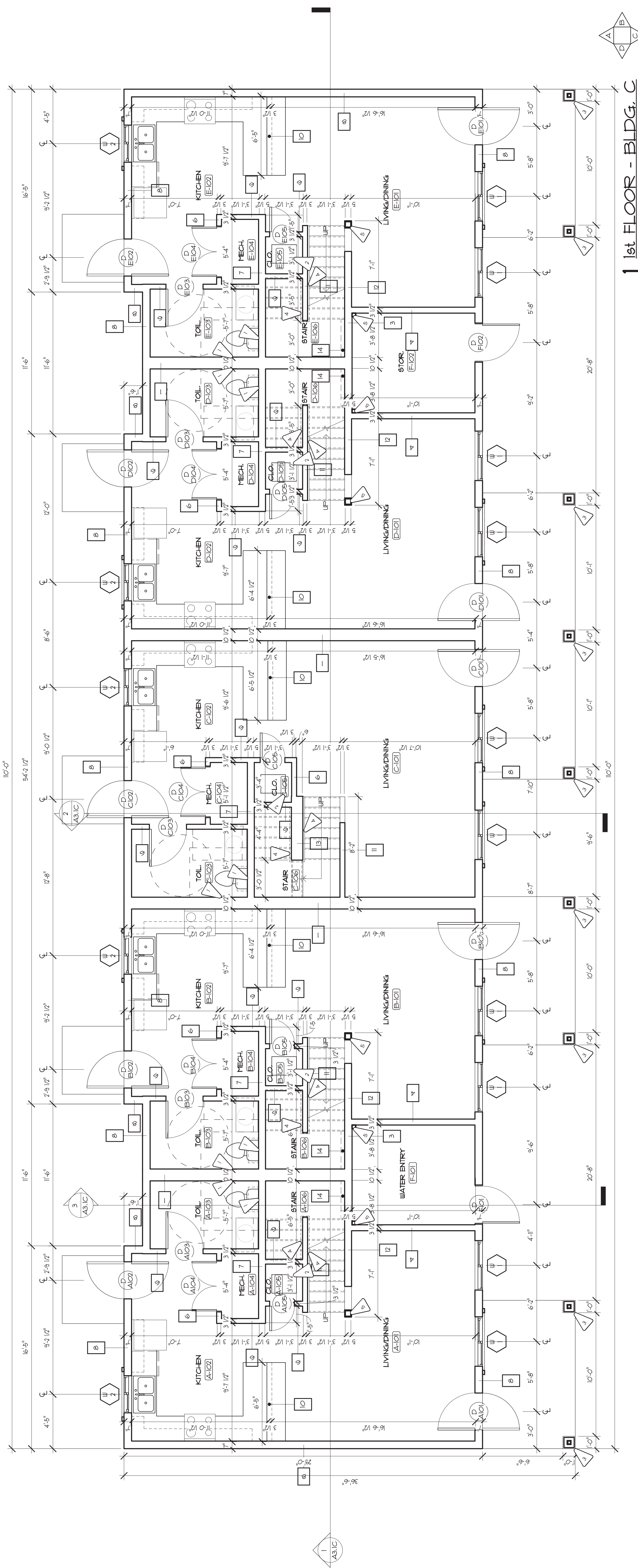
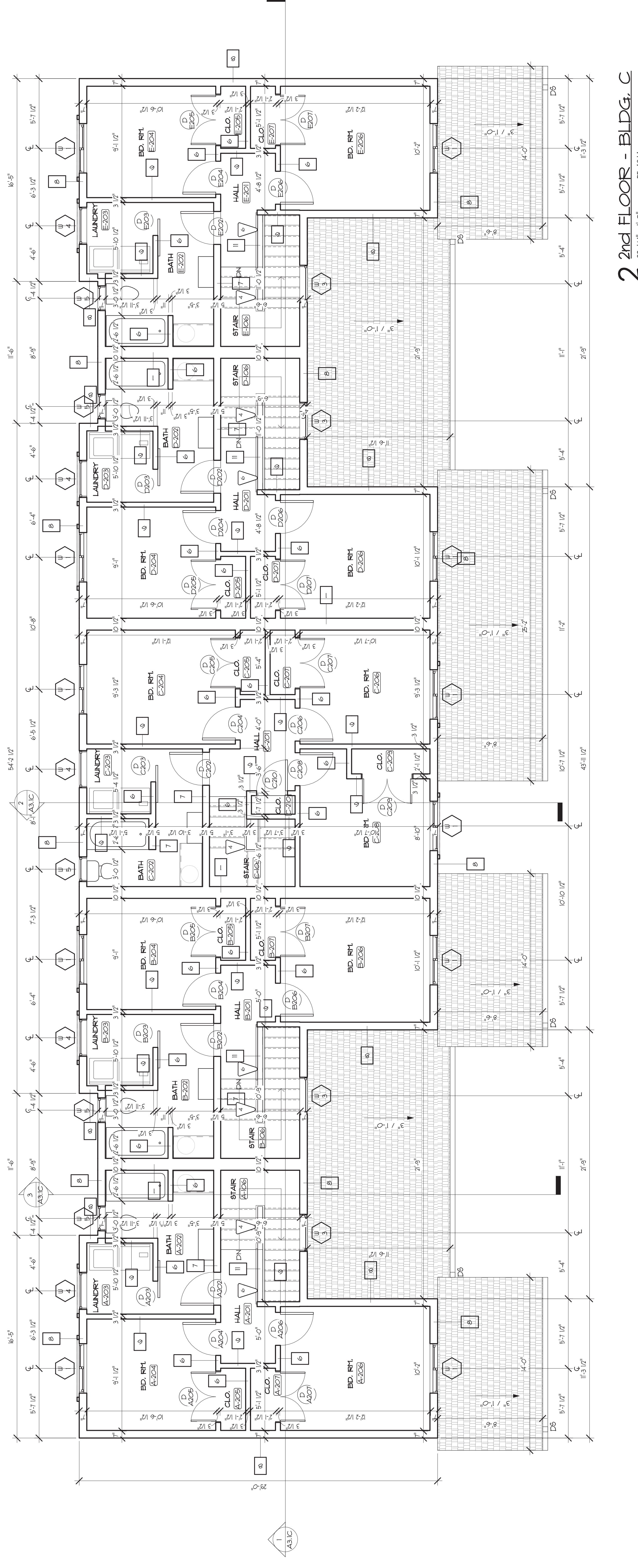
NOTE:  
 1. ALL EXTERIOR DIMENSIONS ON FLOOR PLANS ARE FROM OUTSIDE FACE OF EXTERIOR WALL SHEATHING UNLESS OTHERWISE NOTED.  
 2. ALL INTERIOR DIMENSIONS ON FLOOR PLANS ARE FROM FACE OF WALL UNLESS OTHERWISE NOTED.  
 3. PROVIDE 5/8" TYPE "X" HOLD-UP-HOUSURE RESISTANT GYP. BOARD AT ALL LET WALLS ADJACENT TO SINKS, TOILETS AND WASHING MACHINES.  
 4. PROVIDE 5/8" PERCENT BRG. BEHIND ALL SHOWER/TUB ENCLOSURES IN LEBI OF 5/8" TYPE "X" GYP. BD.

**NEW WORK FLAG NOTES**

NOTE

- PROVIDE BLOCKING FOR FUTURE INSTALLATION OF GAS/BARS.
- RE INTERIOR ELEVATIONS
- CRAIL SPACE ACCESS DOOR WITH TARIFFER PROOF SCREENS
- BRICK VENERUSTICO PORCH COLUMN WRAP: GUFES GREEN BRICK SILL AND PORTLAND CEMENT PLASTER BASED (3) COAT STUCCO SYSTEM ON MIL DIAMOND LATH OVER (1) LAYER 1/2" BRICK SILL. PROVIDE 1/2" AIR SPACE ABOVE BRICK SILL. PROVIDE 1/2" AIR SPACE ABOVE BRICK SILL. PROVIDE 1/2" AIR SPACE ABOVE BRICK SILL.
- STAIR HANDRAIL at 36" ABOVE EDGE OF STAIR NOSING. ONE SIDE OF STAIR ONLY.
- WD. GUARD RAIL
- PRE-MANUF. RETAIL FINISHING RE: SPECIFICATIONS

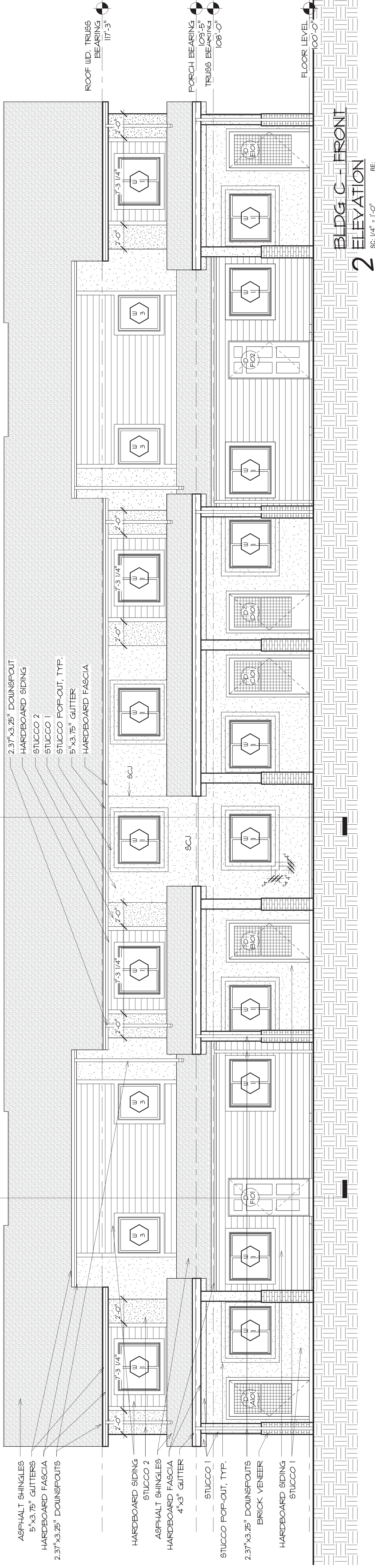
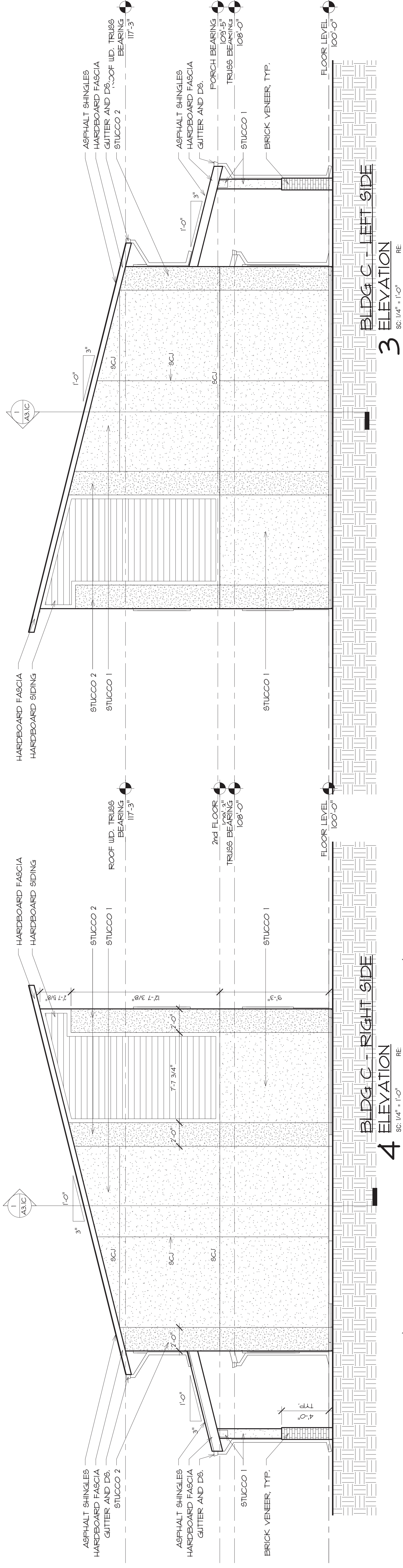
GEN. NOTE: PROVIDE AND INSTALL WINDOW BLINDS AT ALL WINDOWS





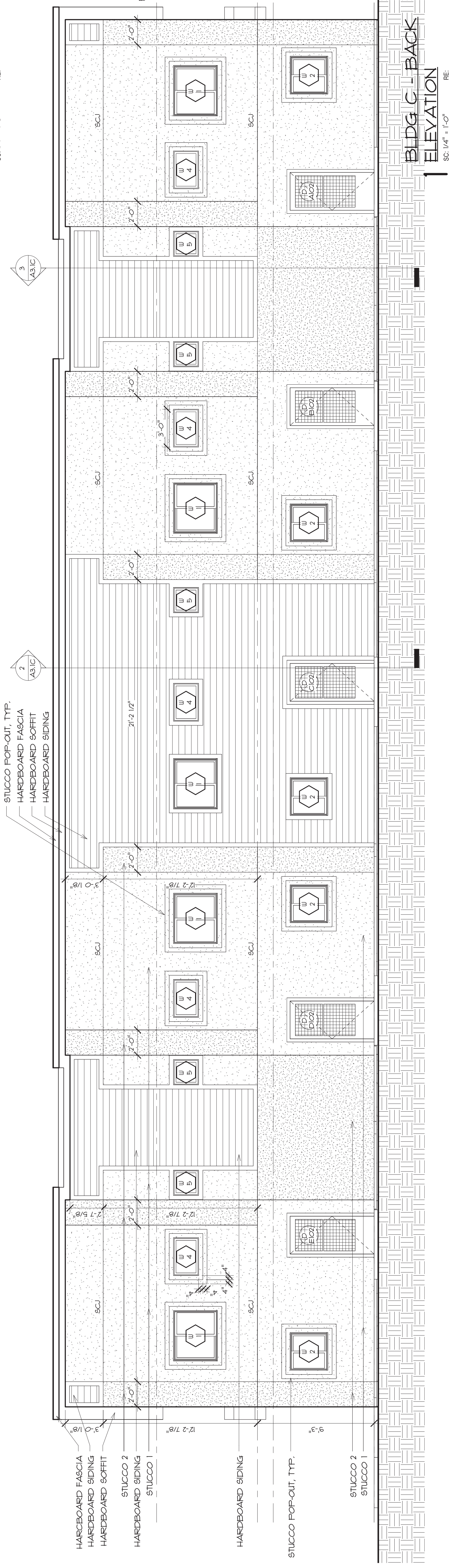






**ELEVATION GENERAL NOTES:**

1. PROVIDE AND INSTALL EXPANSION JOINT AND CAULK CONTINUOUSLY AT ALL STUCCO TO HARDBOARD SIDING JOINTS. SEE SPECIFICATIONS.
2. PROVIDE AND INSTALL STUCCO CONTROL JOINT (SCJ) EVERY 12'-0" VERTICALLY AND HORIZONTALLY AT EVERY OTHER LOCATION INDICATED. SEE SPECIFICATIONS.













DOOR SCHEDULE BUILDING TYPE C

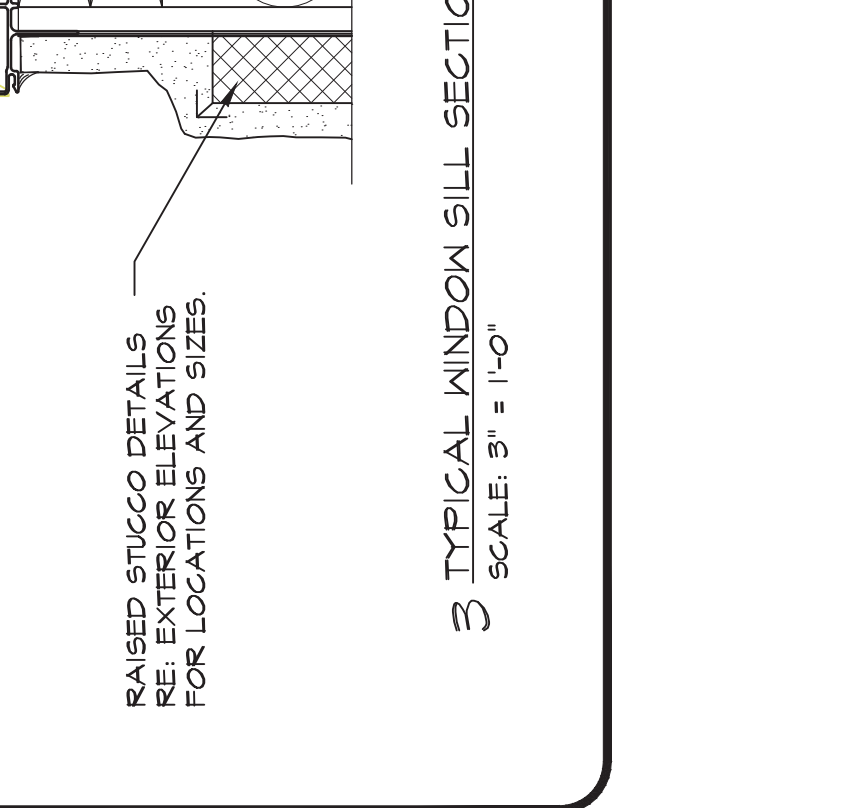
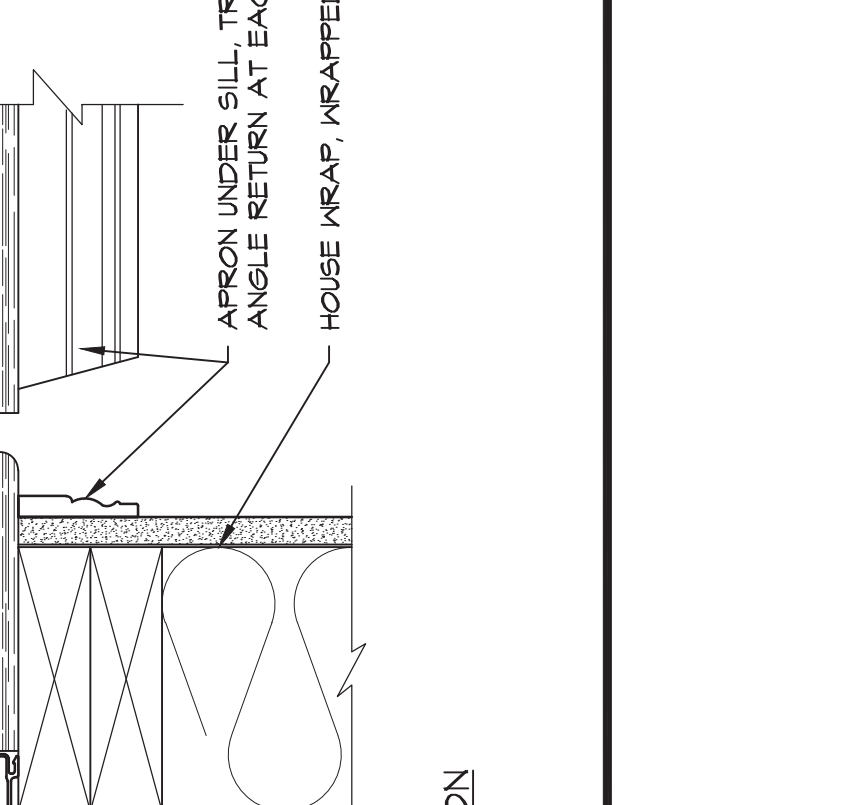
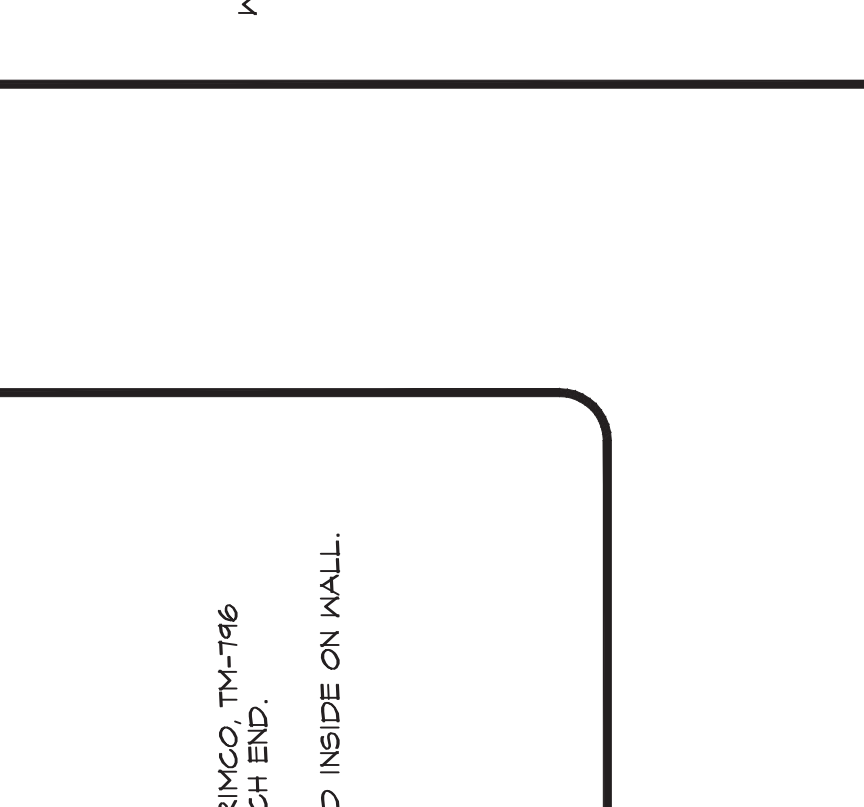
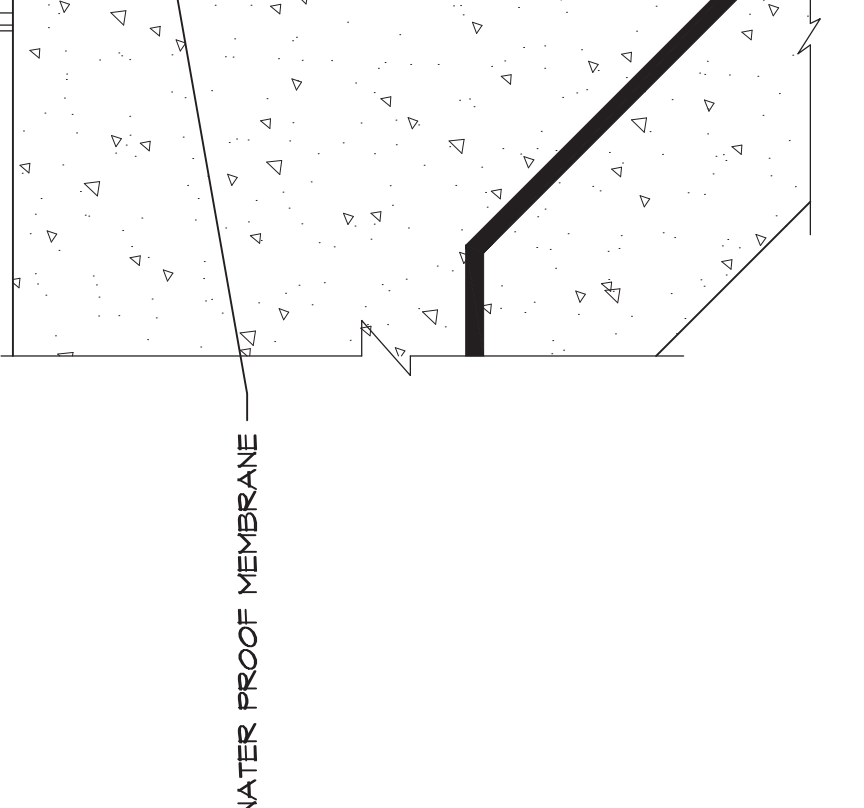
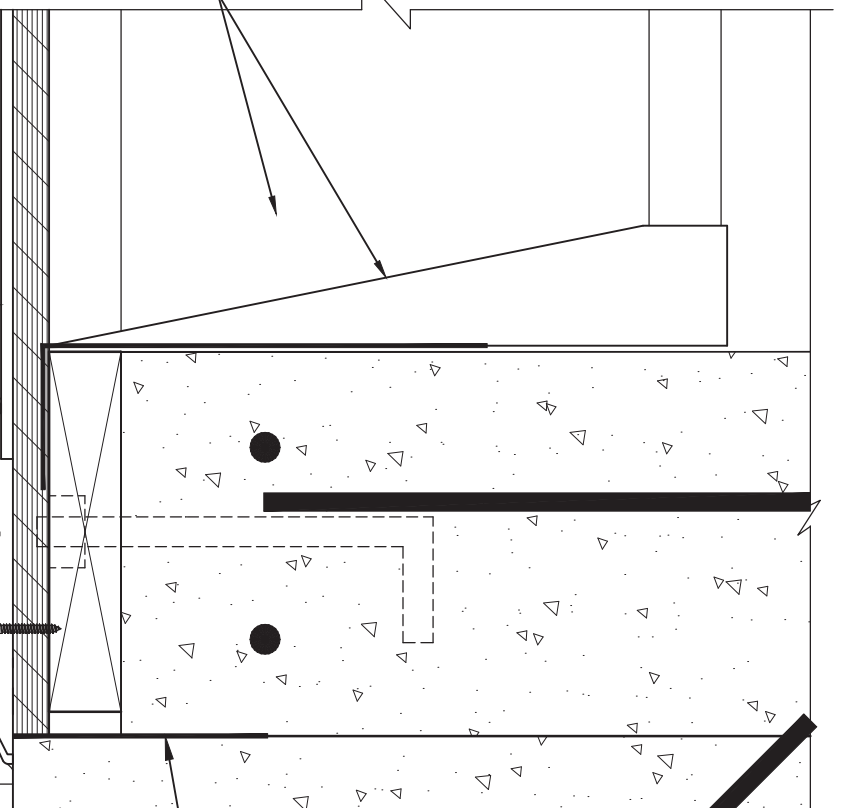
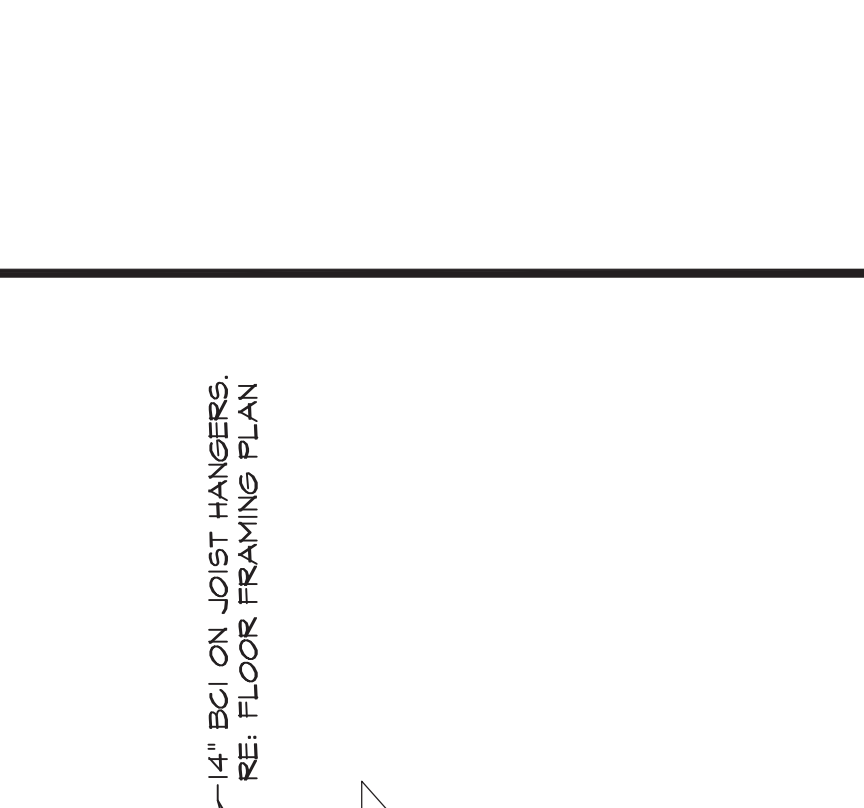
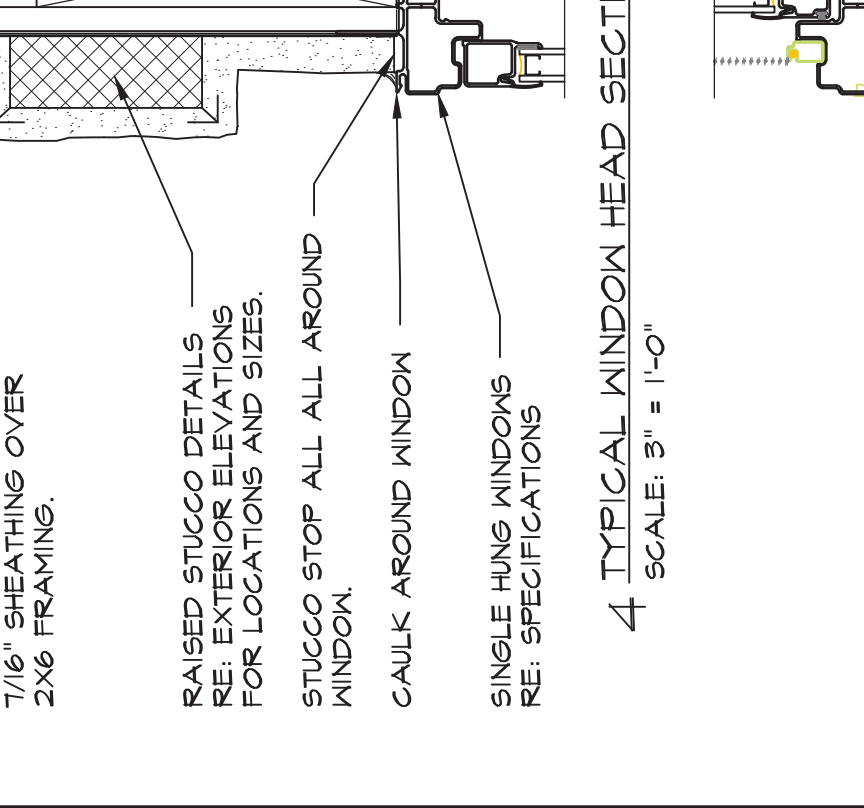
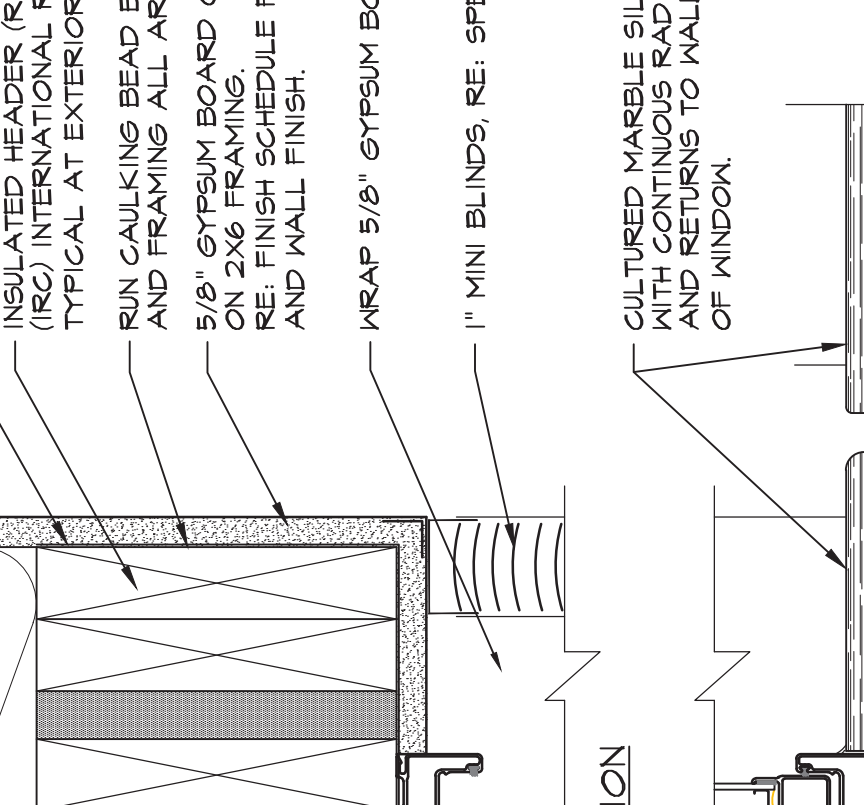
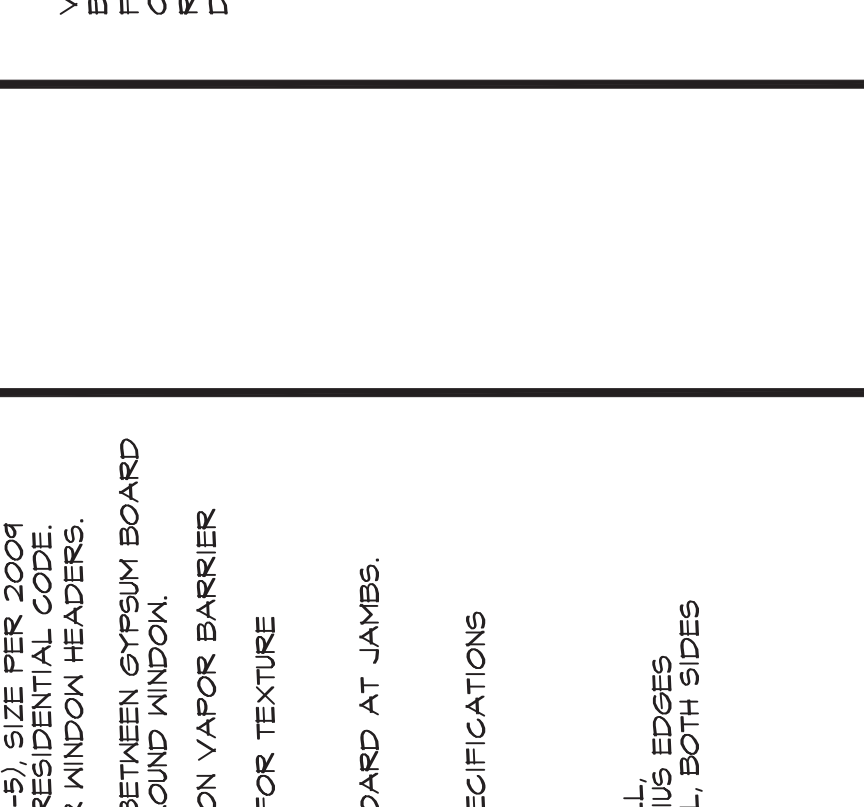
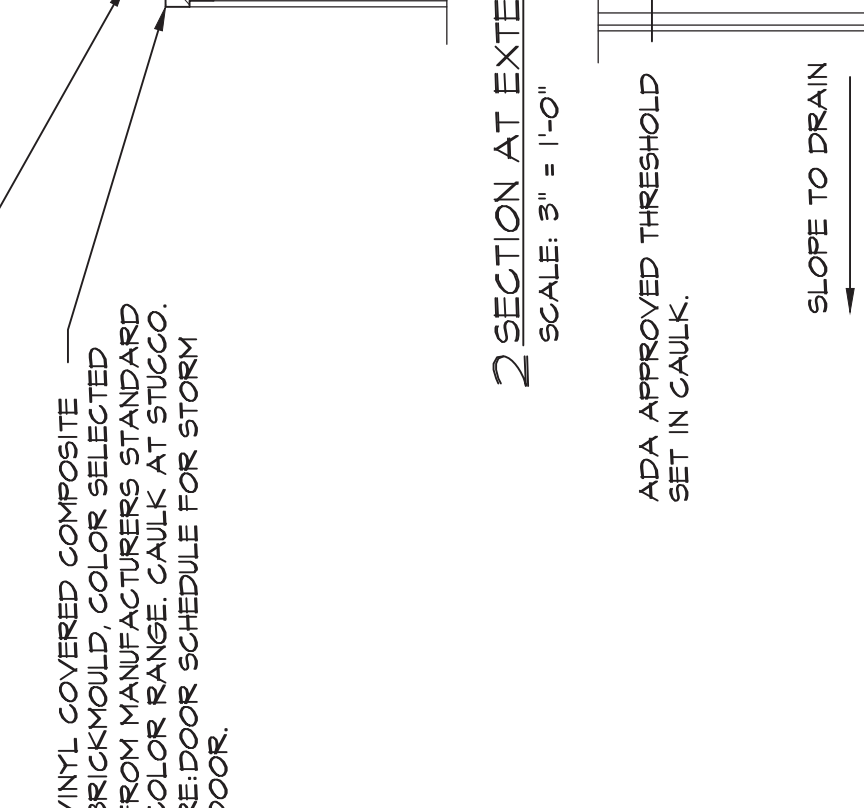
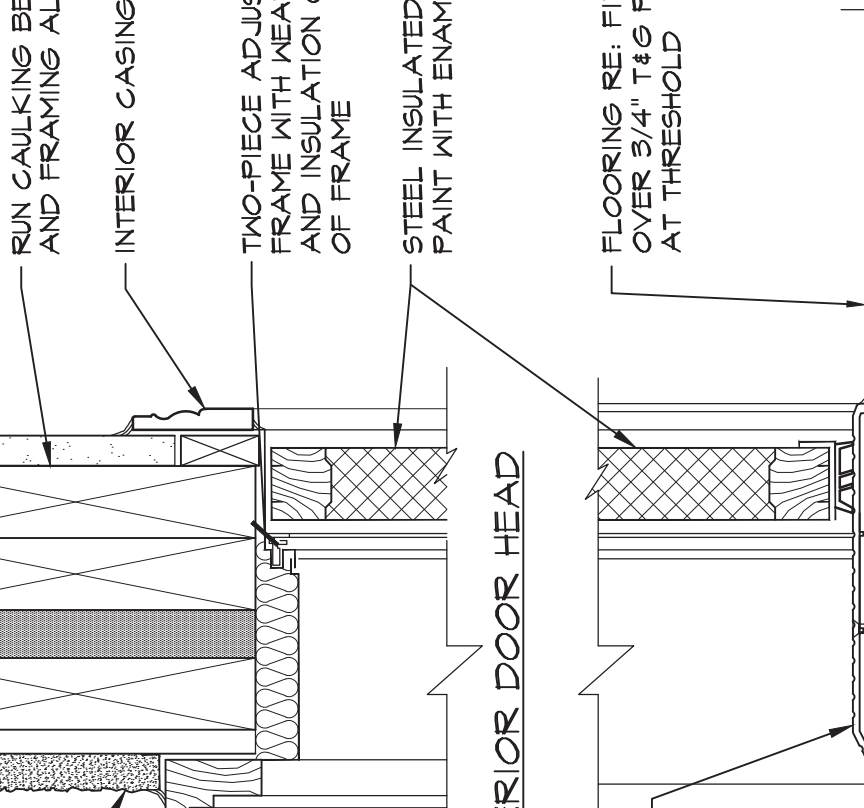
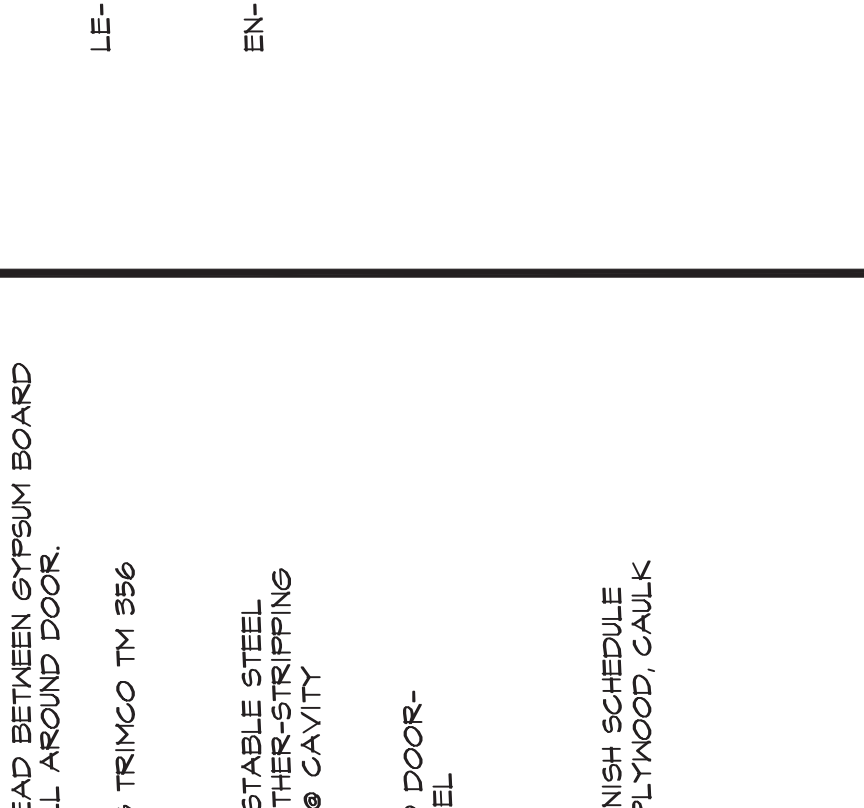
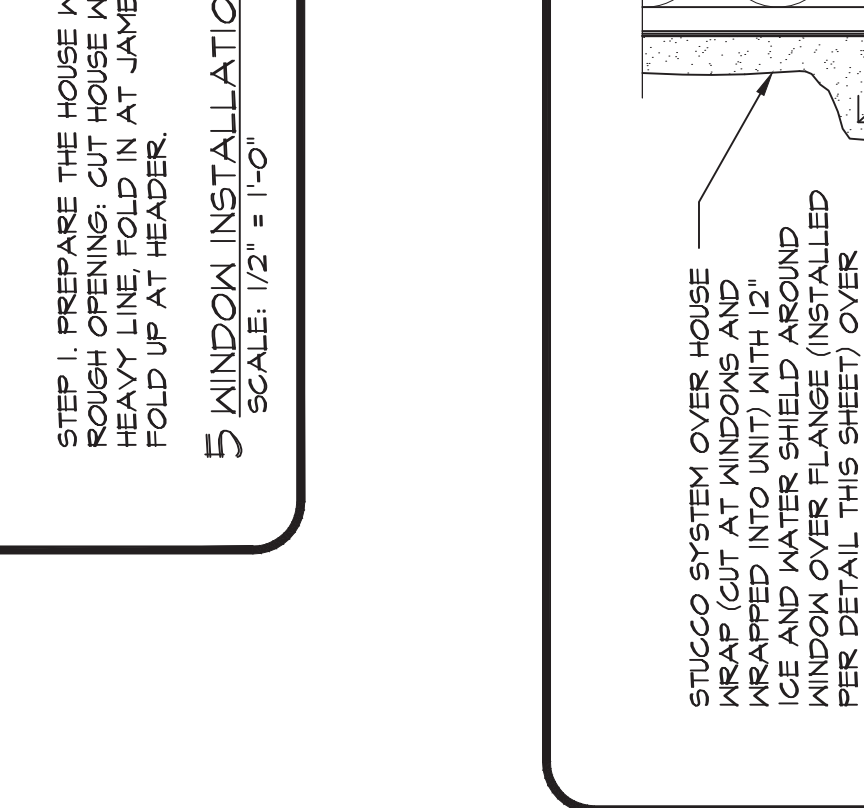
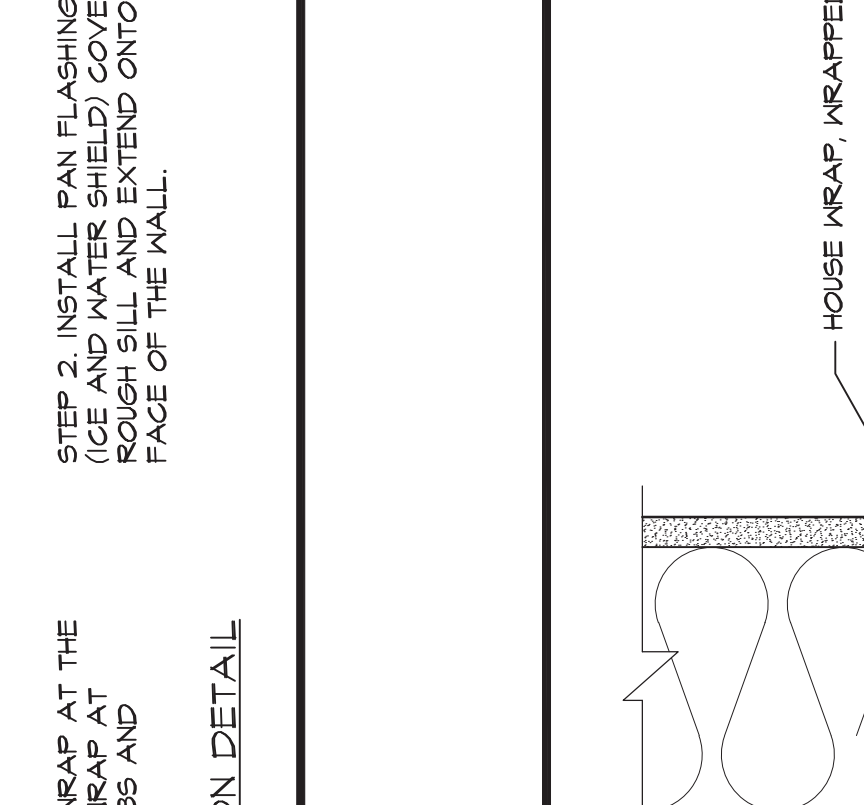
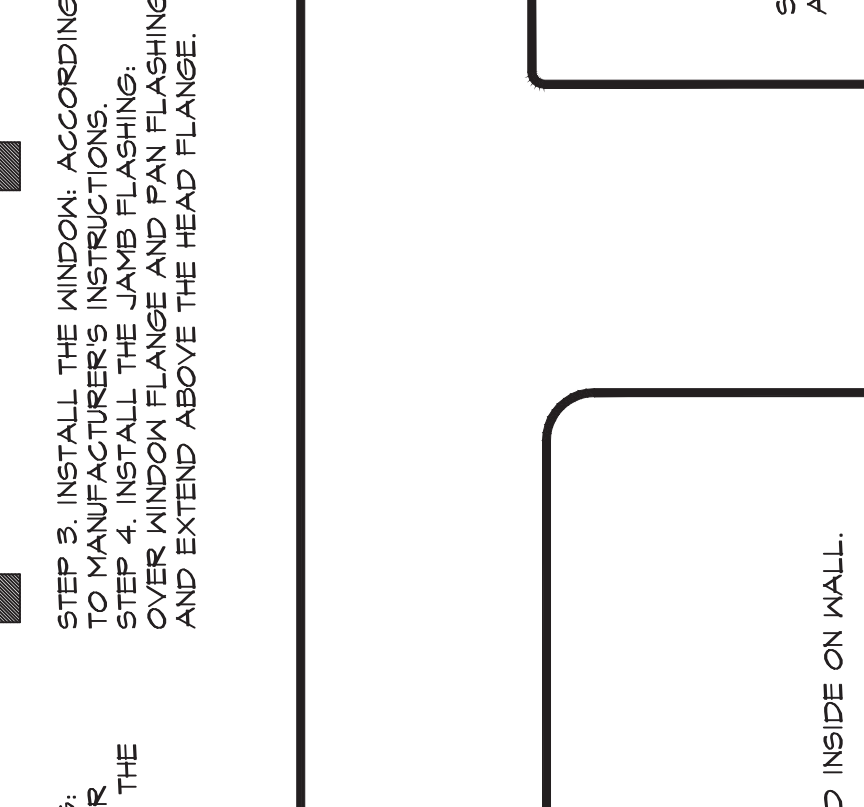
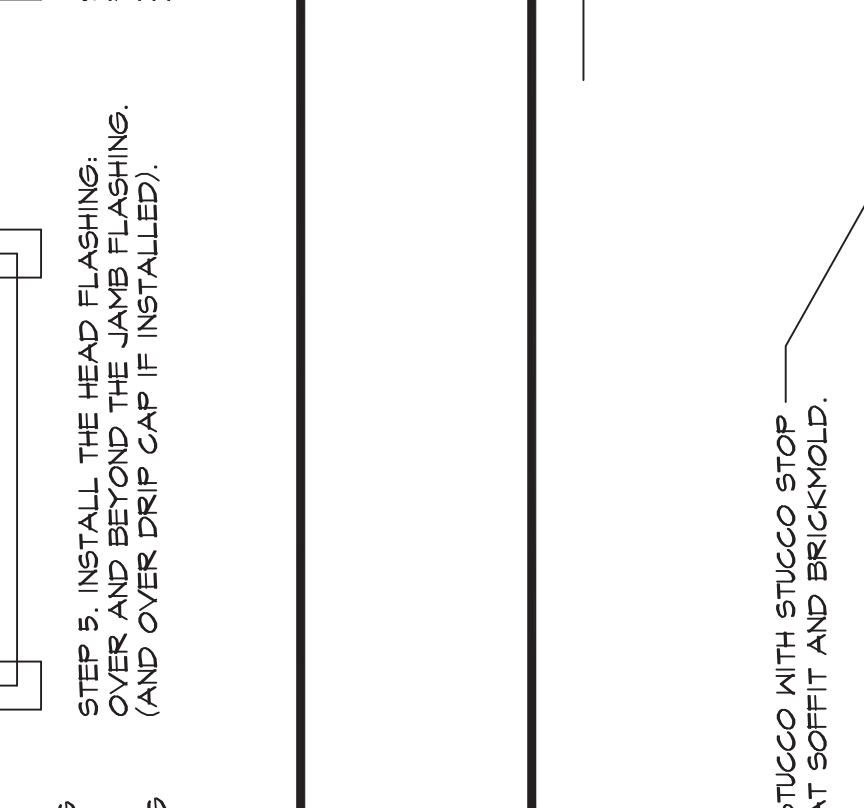
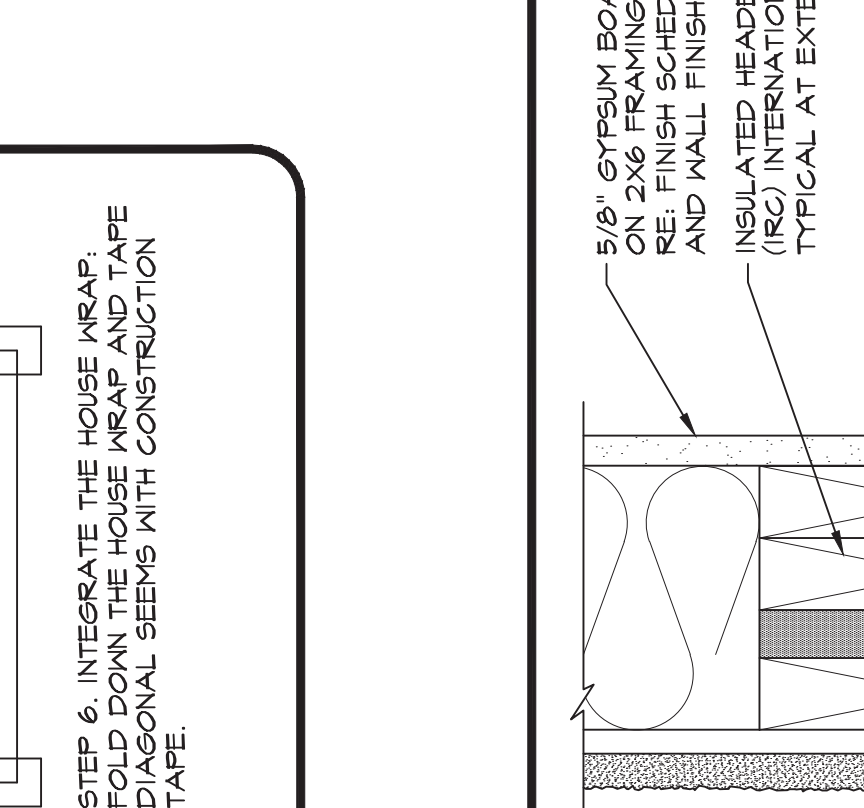
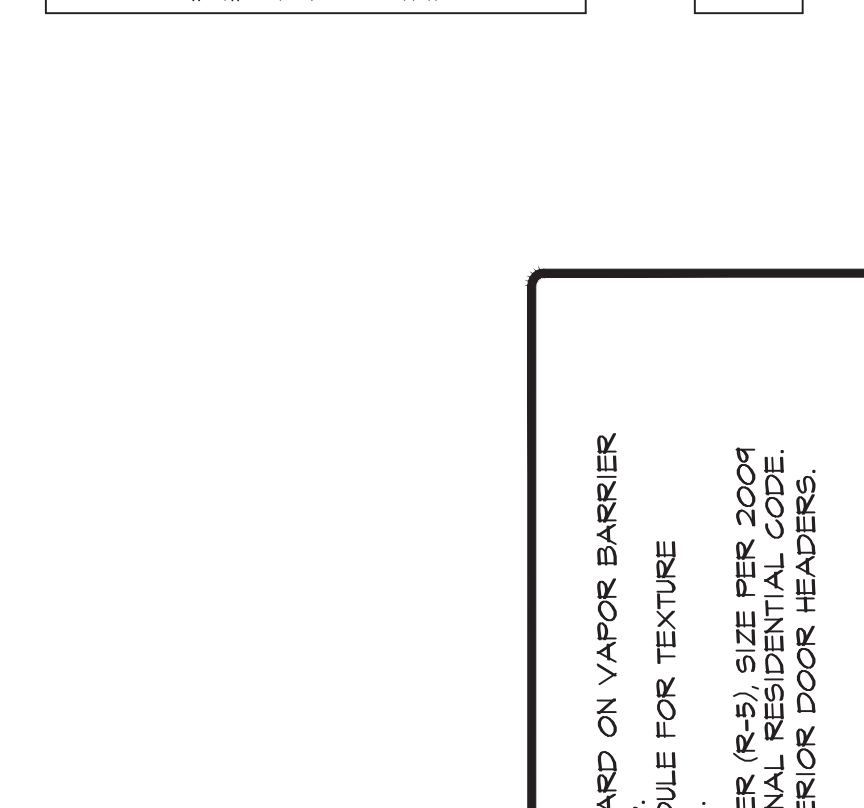
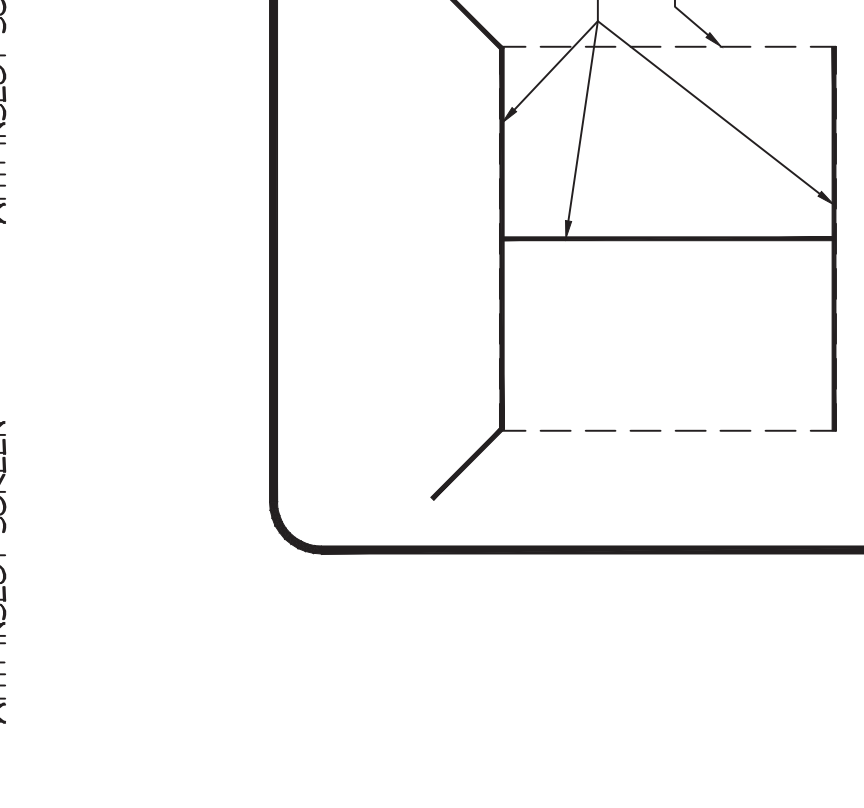
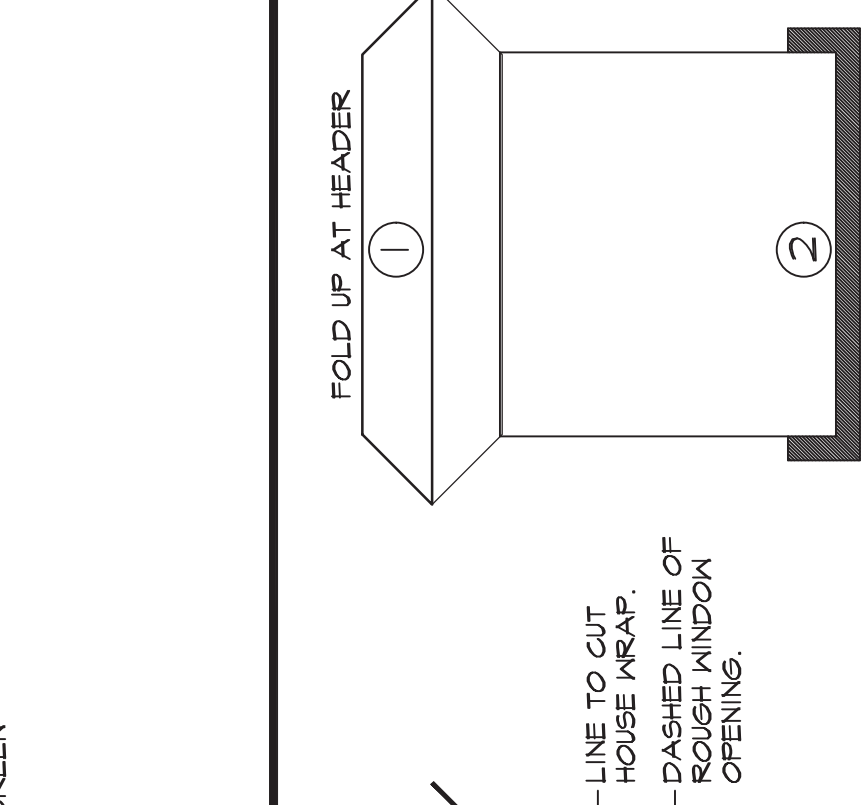
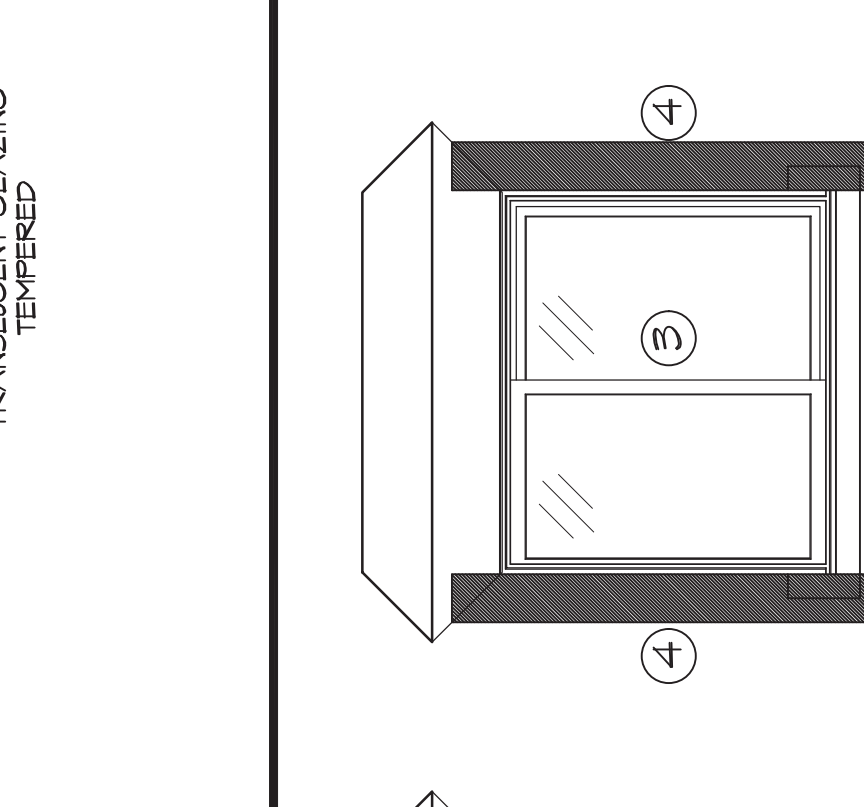
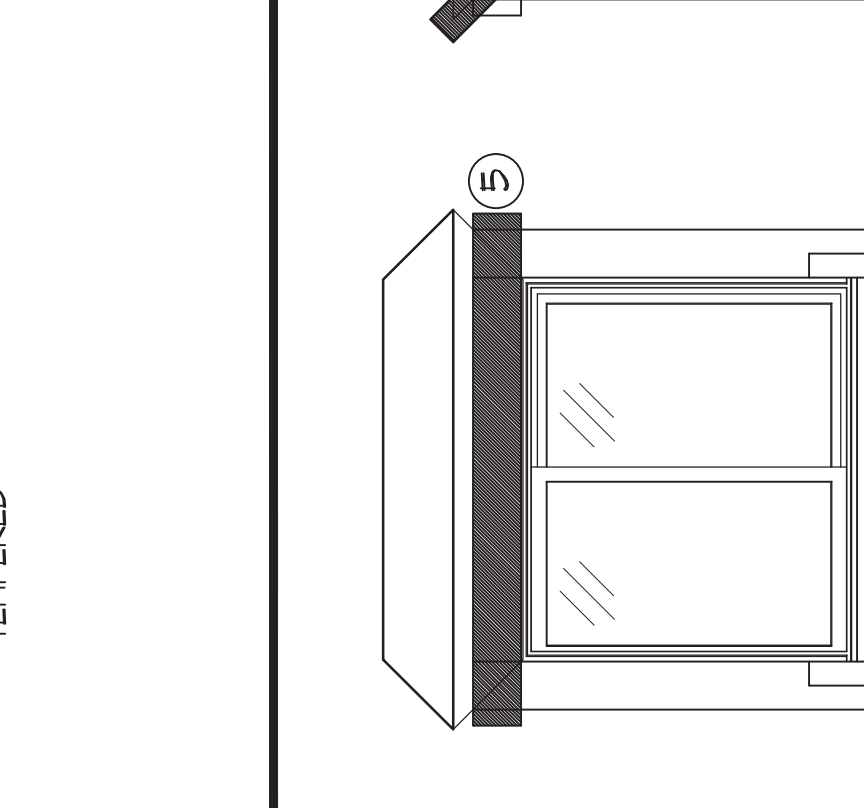
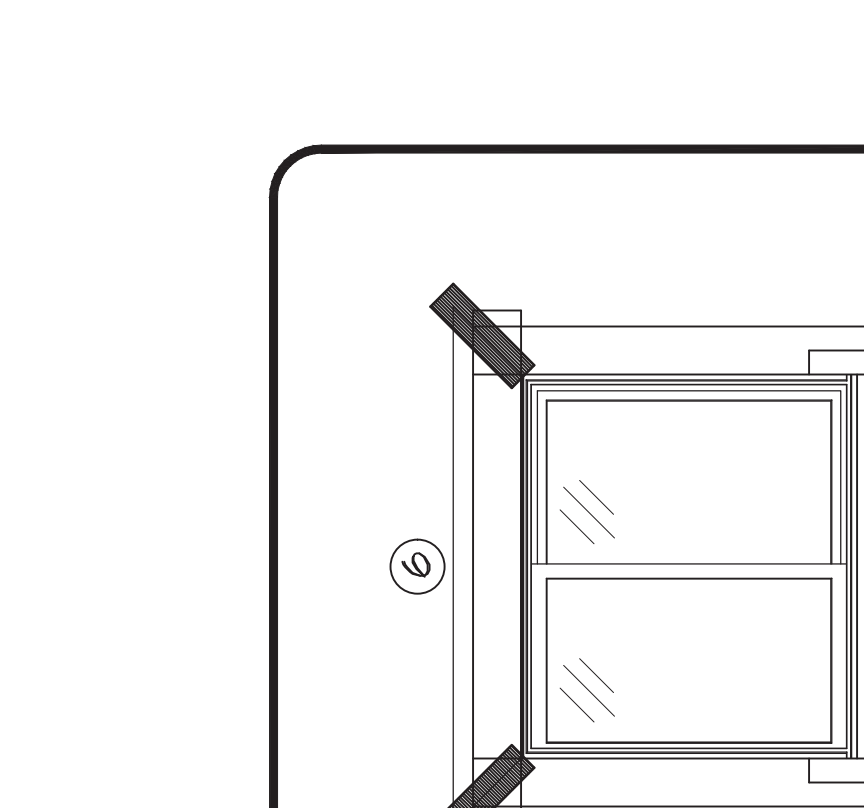
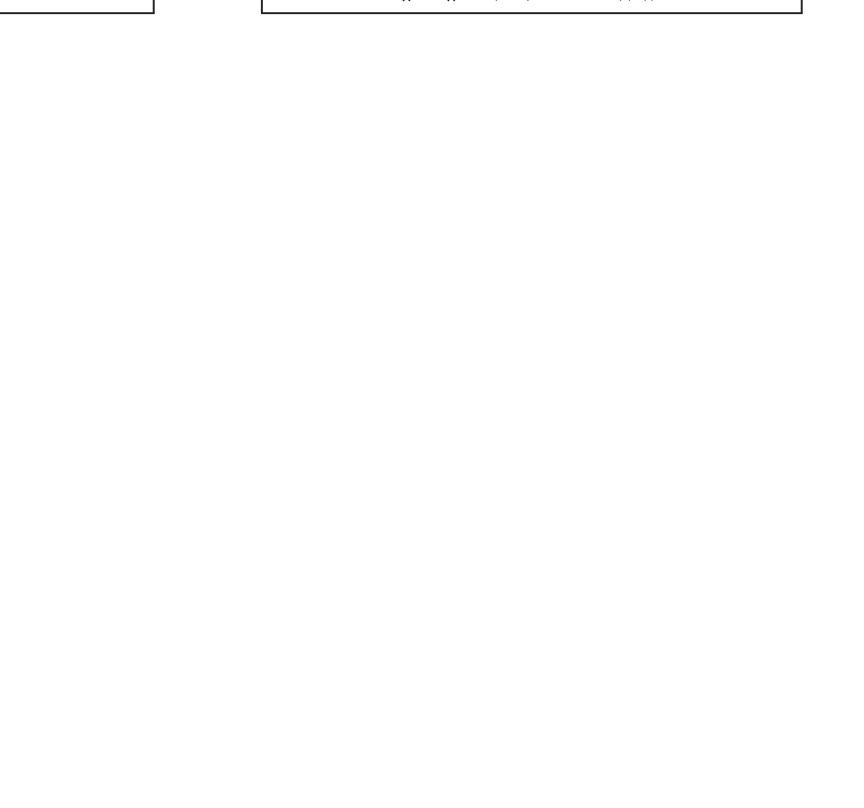
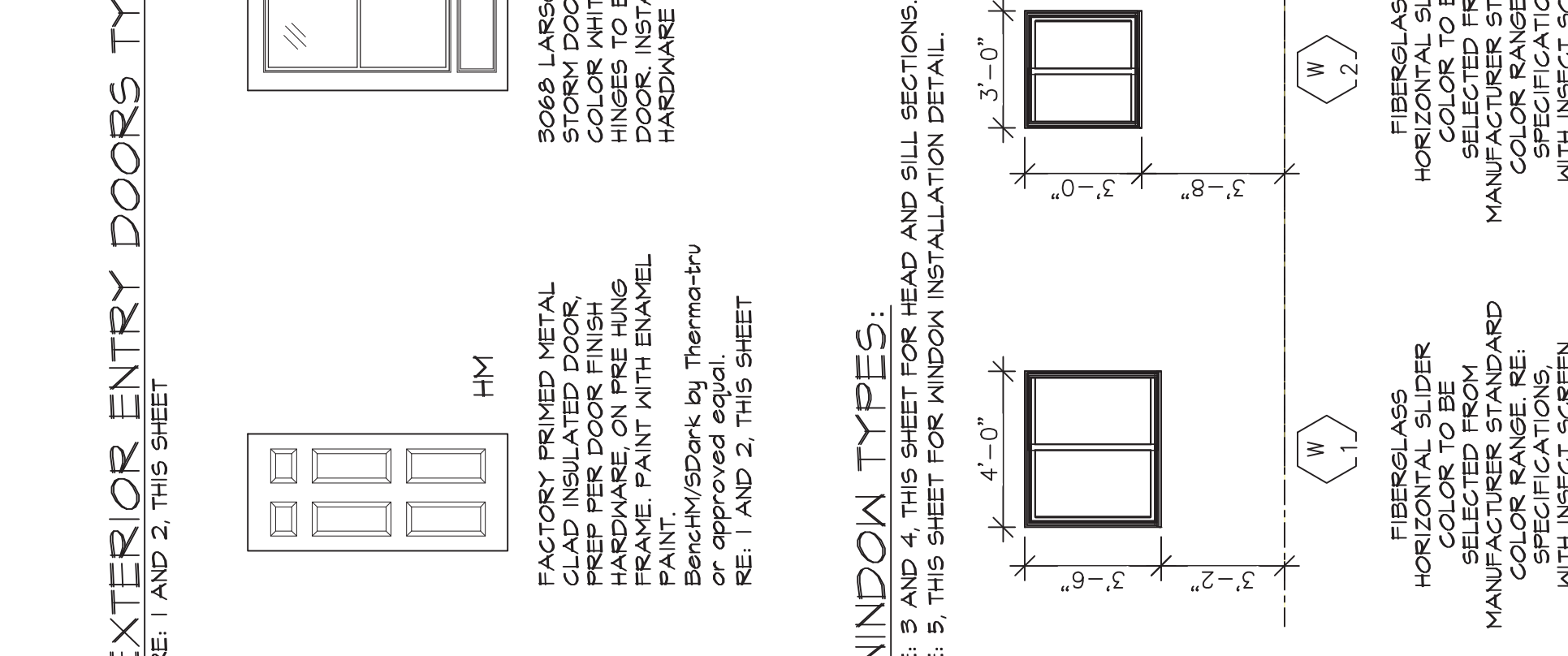
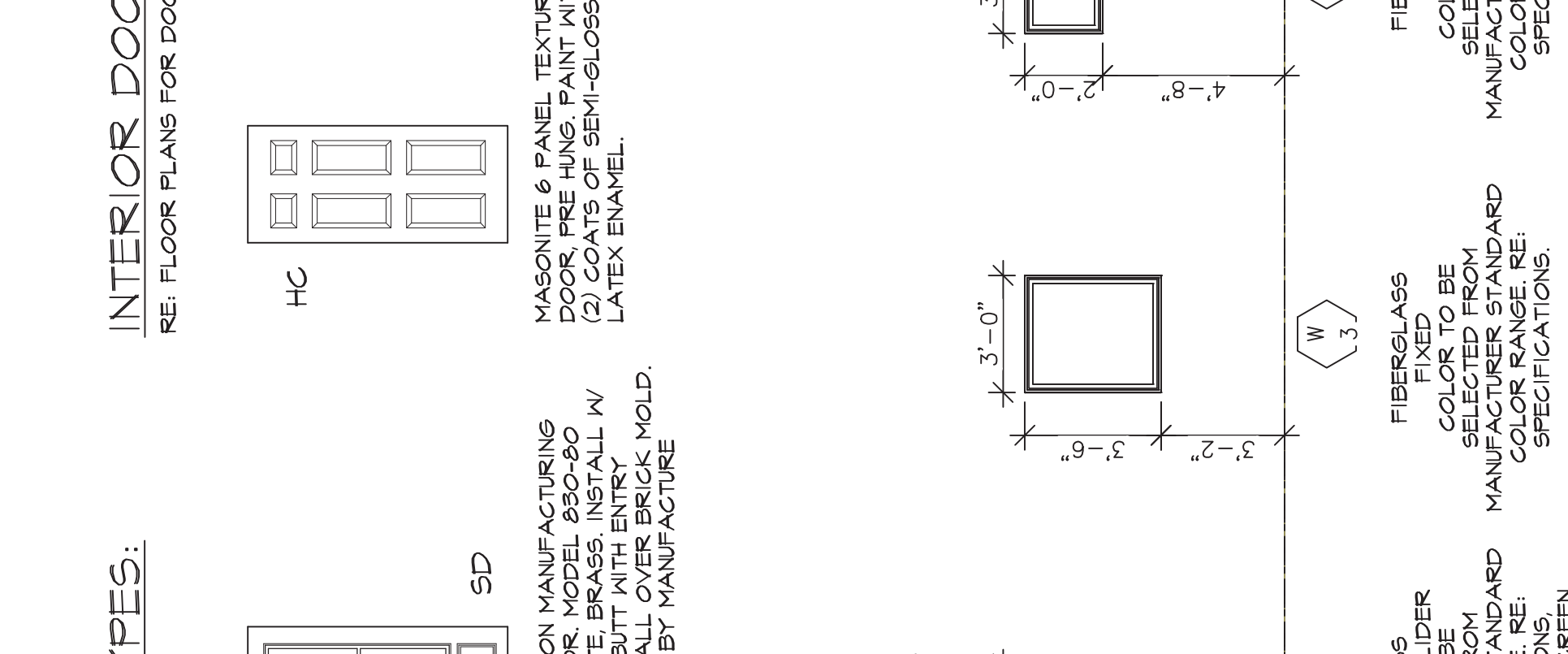
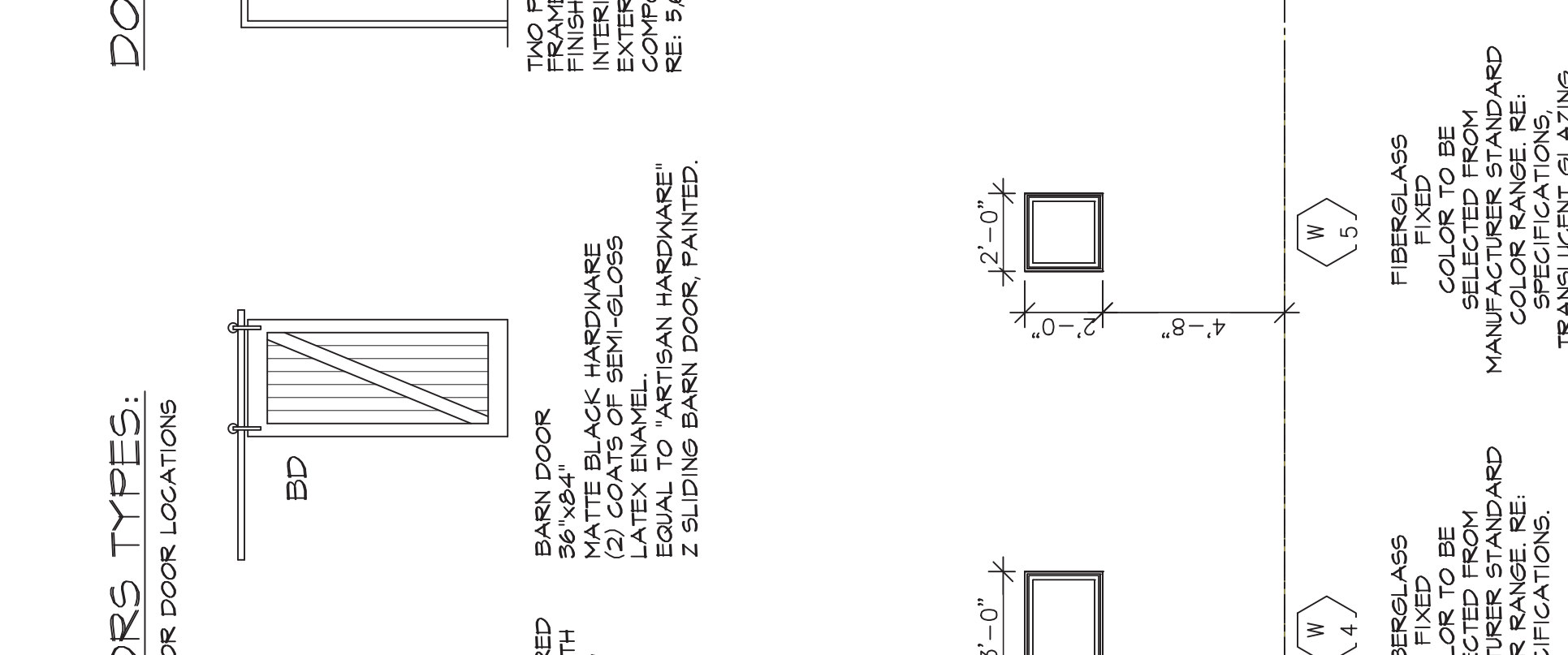
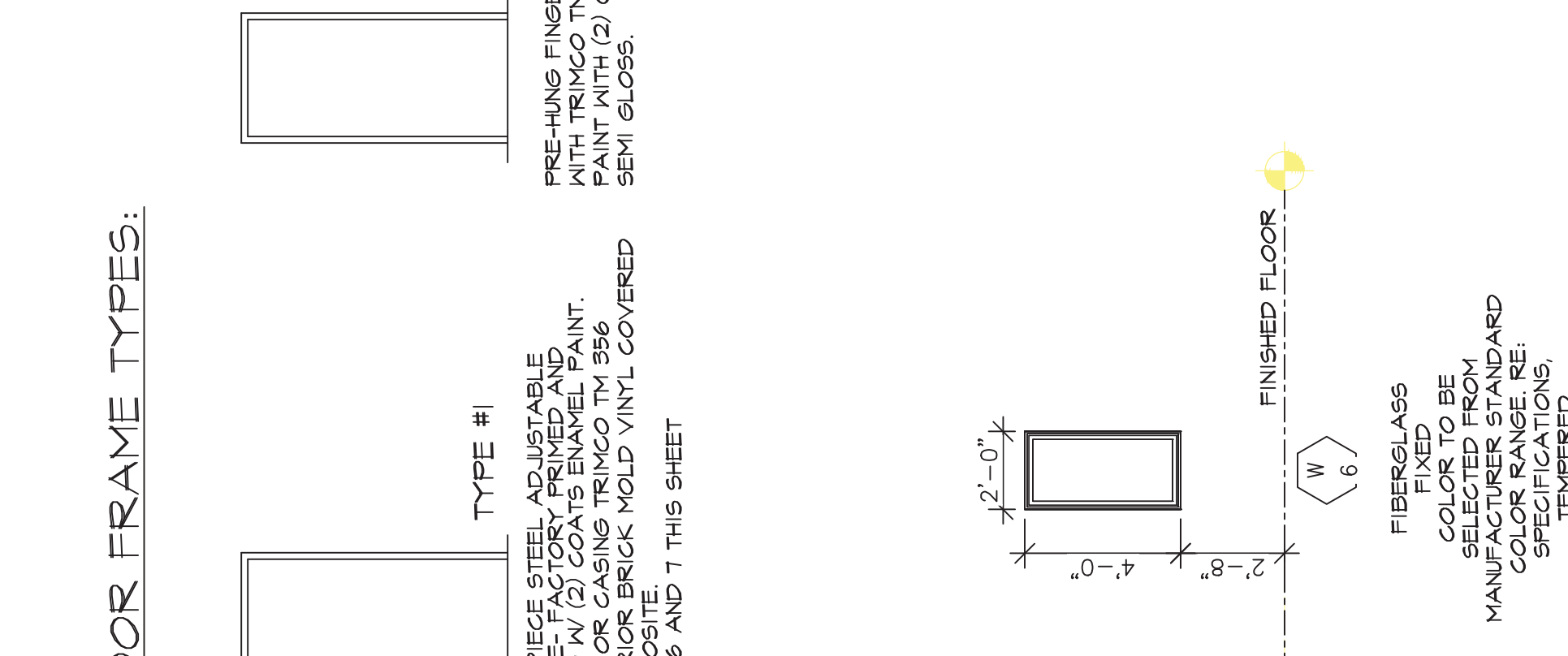
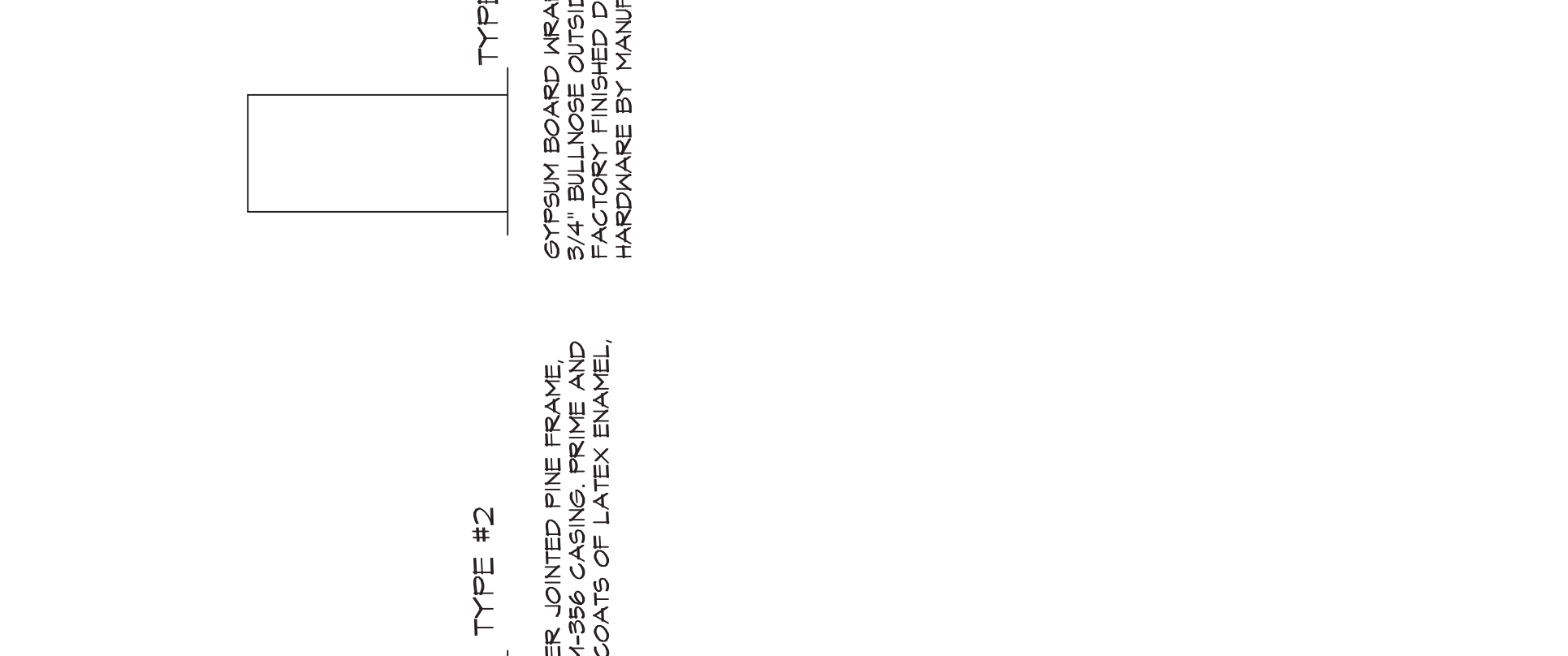
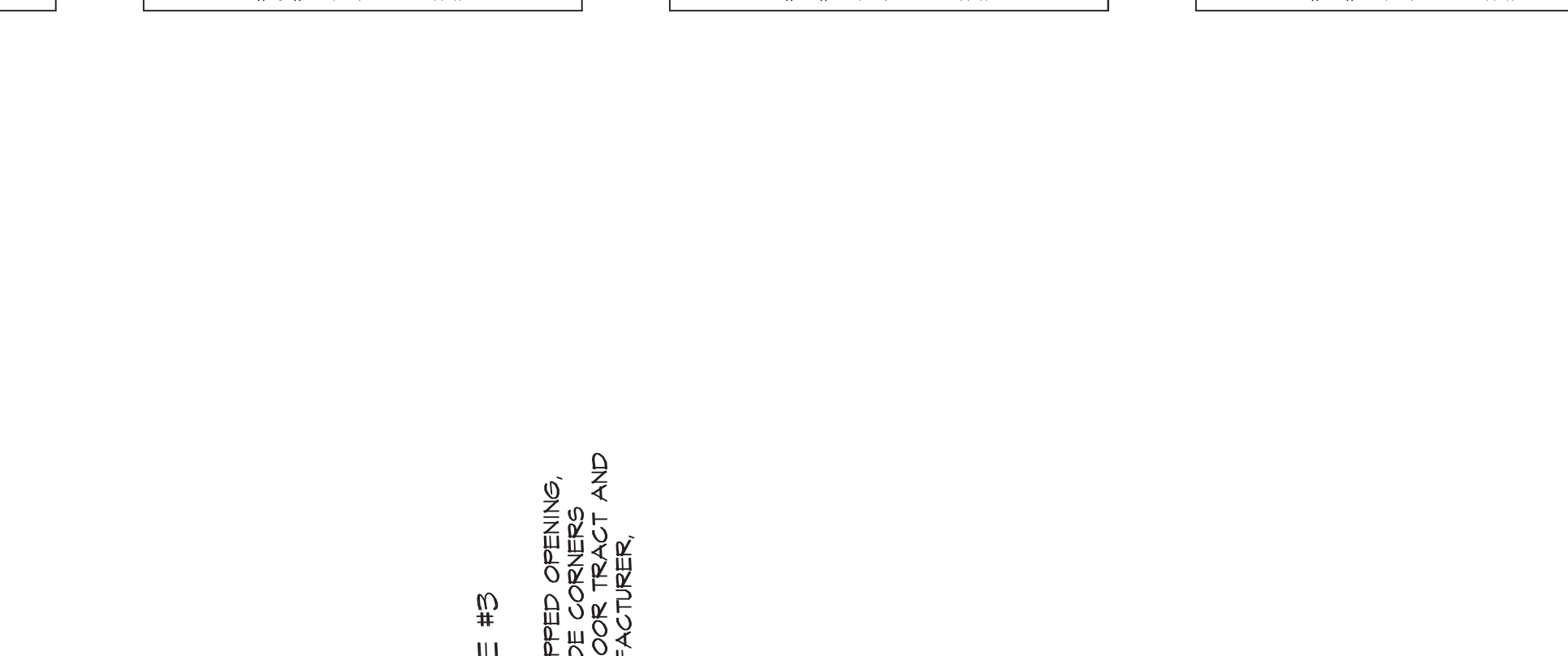
DOOR	SIZE	TYPE	MATERIAL	FINISH	HARDWARE	TYPE	MATERIAL	FINISH	NOTES
A	FIRST FLOOR UNIT TYPE 'A'	HV/S/D	METAL	ENH	A	1	METAL	ENH	
			WOOD	LEH	C		WOOD	LEH	
			WOOD	LEH	C		WOOD	LEH	
			WOOD	LEH	B		WOOD	LEH	
			WOOD	LEH	B		WOOD	LEH	
B	SECOND FLOOR UNIT TYPE 'A'	HC	HARD BOARD	LEH	B	2	WOOD	LEH	R.O. 2'-8" X 6'-8"
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
C	SECOND FLOOR UNIT TYPE 'A'	HC	HARD BOARD	LEH	B	2	WOOD	LEH	R.O. 2'-8" X 6'-8"
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
D	SECOND FLOOR UNIT TYPE 'A'	HC	HARD BOARD	LEH	B	2	WOOD	LEH	R.O. 2'-8" X 6'-8"
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
E	SECOND FLOOR UNIT TYPE 'A'	HC	HARD BOARD	LEH	B	2	WOOD	LEH	R.O. 2'-8" X 6'-8"
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	

DOOR	SIZE	TYPE	MATERIAL	FINISH	HARDWARE	TYPE	MATERIAL	FINISH	NOTES
F	FIRST FLOOR UNIT TYPE 'B'	HV/S/D	METAL	ENH	A	1	METAL	ENH	
			WOOD	LEH	C		WOOD	LEH	
			WOOD	LEH	C		WOOD	LEH	
			WOOD	LEH	B		WOOD	LEH	
			WOOD	LEH	B		WOOD	LEH	
G	SECOND FLOOR UNIT TYPE 'B'	HC	HARD BOARD	LEH	B	2	WOOD	LEH	R.O. 2'-8" X 6'-8"
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
H	SECOND FLOOR UNIT TYPE 'B'	HC	HARD BOARD	LEH	B	2	WOOD	LEH	R.O. 2'-8" X 6'-8"
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	

DOOR	SIZE	TYPE	MATERIAL	FINISH	HARDWARE	TYPE	MATERIAL	FINISH	NOTES
I	FIRST FLOOR UNIT TYPE 'C'	HV/S/D	METAL	ENH	A	1	METAL	ENH	
			WOOD	LEH	C		WOOD	LEH	
			WOOD	LEH	C		WOOD	LEH	
			WOOD	LEH	B		WOOD	LEH	
			WOOD	LEH	B		WOOD	LEH	
J	SECOND FLOOR UNIT TYPE 'C'	HC	HARD BOARD	LEH	B	2	WOOD	LEH	R.O. 2'-8" X 6'-8"
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
K	SECOND FLOOR UNIT TYPE 'C'	HC	HARD BOARD	LEH	B	2	WOOD	LEH	R.O. 2'-8" X 6'-8"
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	

DOOR	SIZE	TYPE	MATERIAL	FINISH	HARDWARE	TYPE	MATERIAL	FINISH	NOTES
L	FIRST FLOOR UNIT TYPE 'D'	HV/S/D	METAL	ENH	A	1	METAL	ENH	
			WOOD	LEH	C		WOOD	LEH	
			WOOD	LEH	C		WOOD	LEH	
			WOOD	LEH	B		WOOD	LEH	
			WOOD	LEH	B		WOOD	LEH	
M	SECOND FLOOR UNIT TYPE 'D'	HC	HARD BOARD	LEH	B	2	WOOD	LEH	R.O. 2'-8" X 6'-8"
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
N	SECOND FLOOR UNIT TYPE 'D'	HC	HARD BOARD	LEH	B	2	WOOD	LEH	R.O. 2'-8" X 6'-8"
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	

DOOR	SIZE	TYPE	MATERIAL	FINISH	HARDWARE	TYPE	MATERIAL	FINISH	NOTES
O	FIRST FLOOR UNIT TYPE 'E'	HV/S/D	METAL	ENH	A	1	METAL	ENH	
			WOOD	LEH	C		WOOD	LEH	
			WOOD	LEH	C		WOOD	LEH	
			WOOD	LEH	B		WOOD	LEH	
			WOOD	LEH	B		WOOD	LEH	
P	SECOND FLOOR UNIT TYPE 'E'	HC	HARD BOARD	LEH	B	2	WOOD	LEH	R.O. 2'-8" X 6'-8"
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	
			HARD BOARD	LEH	B		WOOD	LEH	

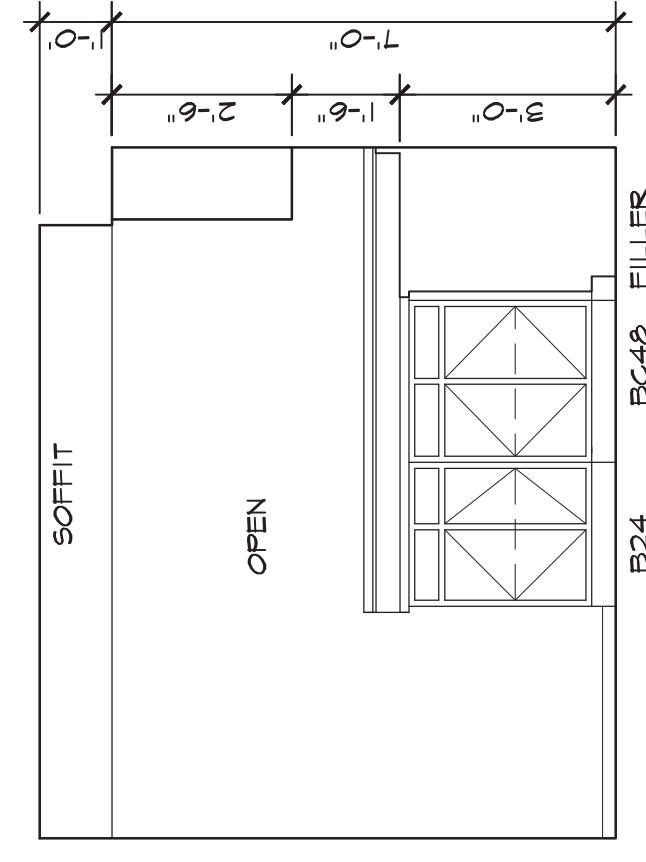


DOOR FRAME TYPES:  
 INTERIOR DOORS TYPES:  
 EXTERIOR ENTRY DOORS TYPES:  
 WINDOW TYPES:  
 WINDOW INSTALLATION DETAIL:  
 SECTION AT EXTERIOR DOOR THRESHOLD:  
 SECTION AT EXTERIOR DOOR THRESHOLD:

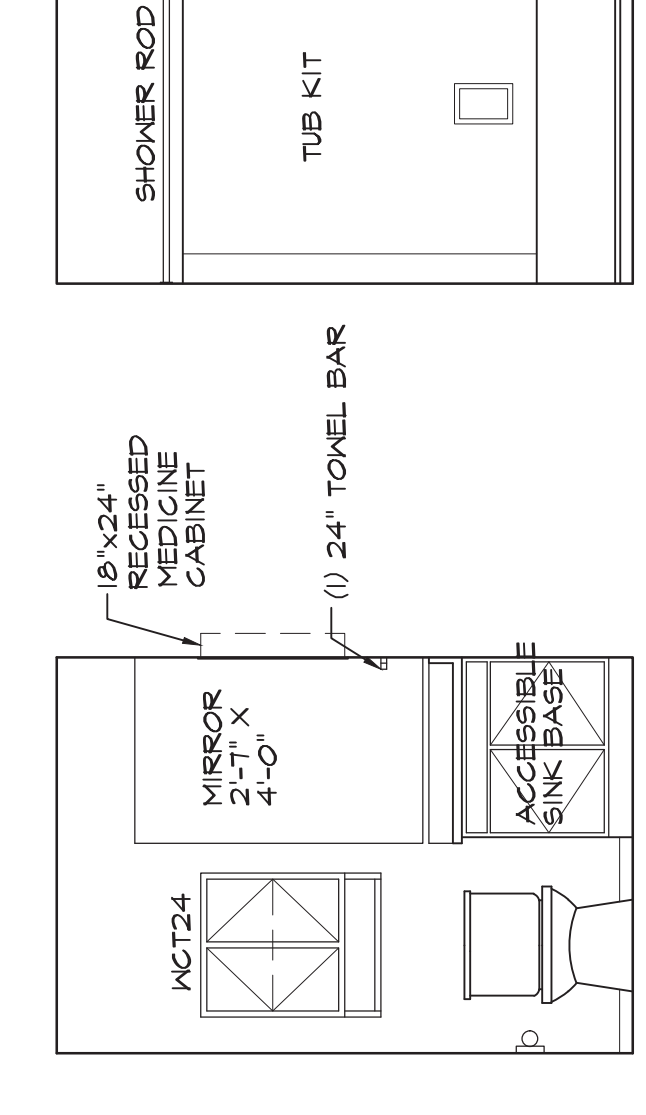


# BUILDING TYPE C

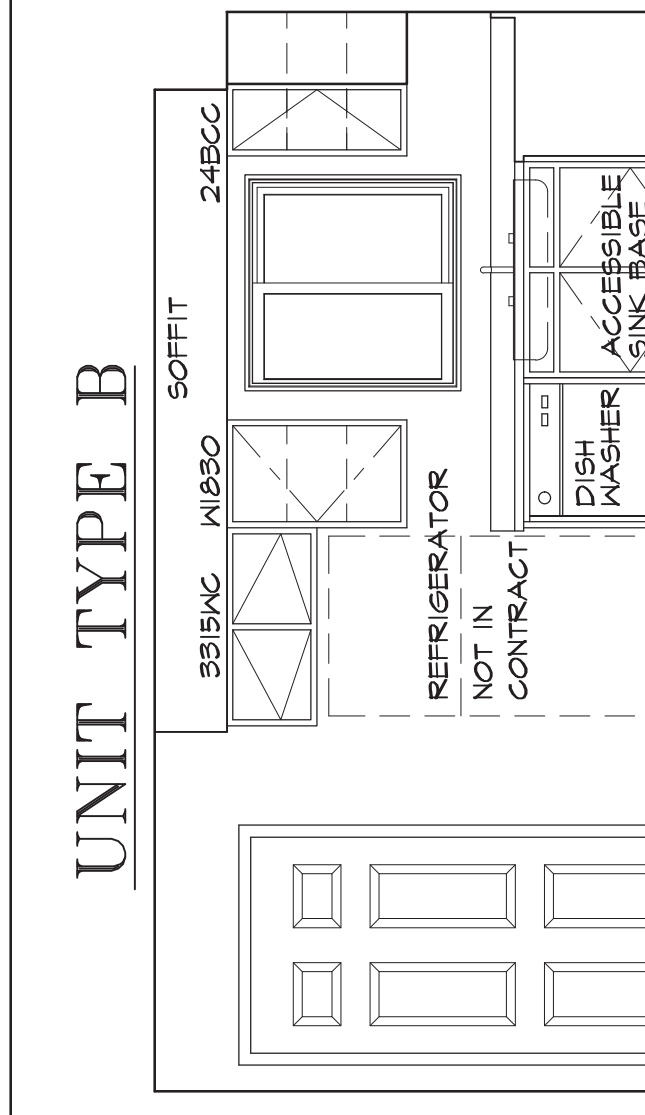
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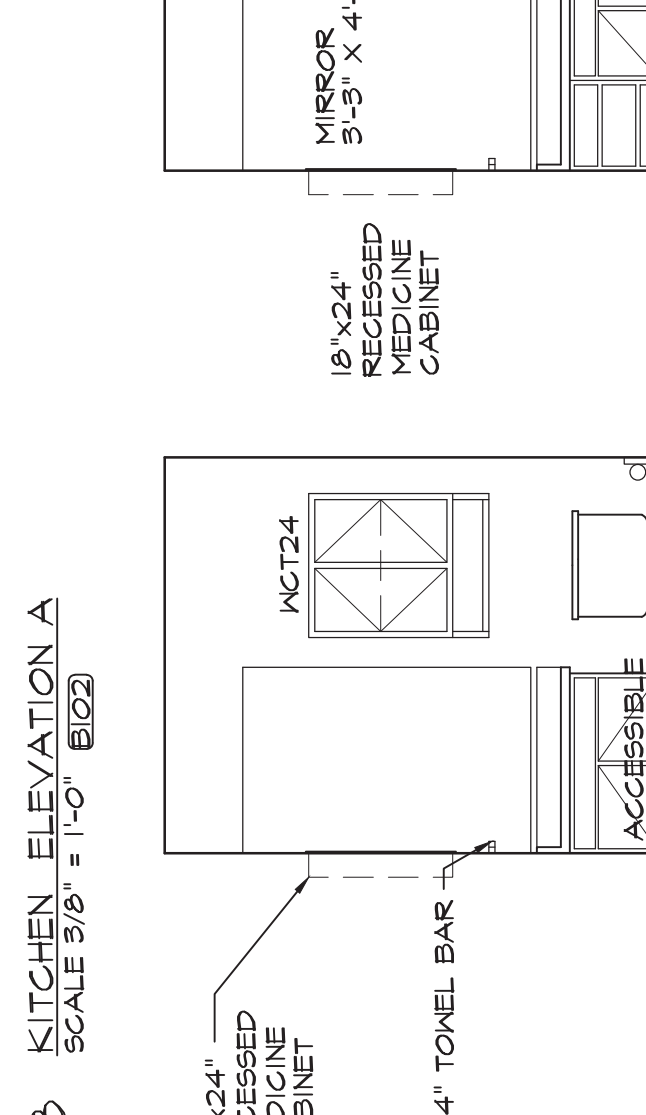
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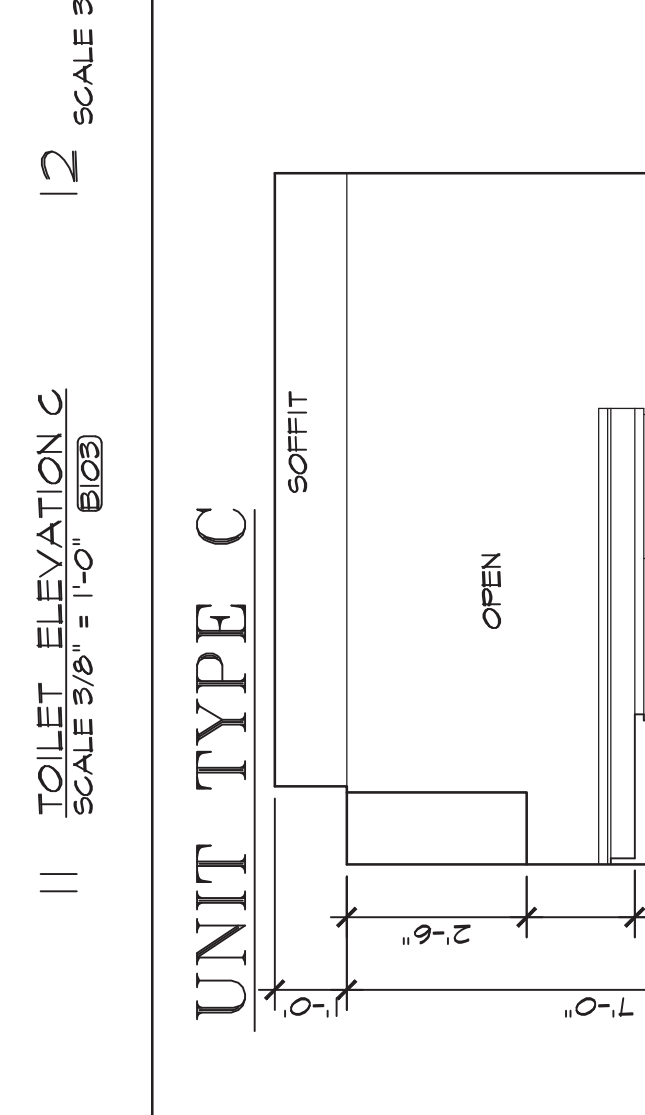
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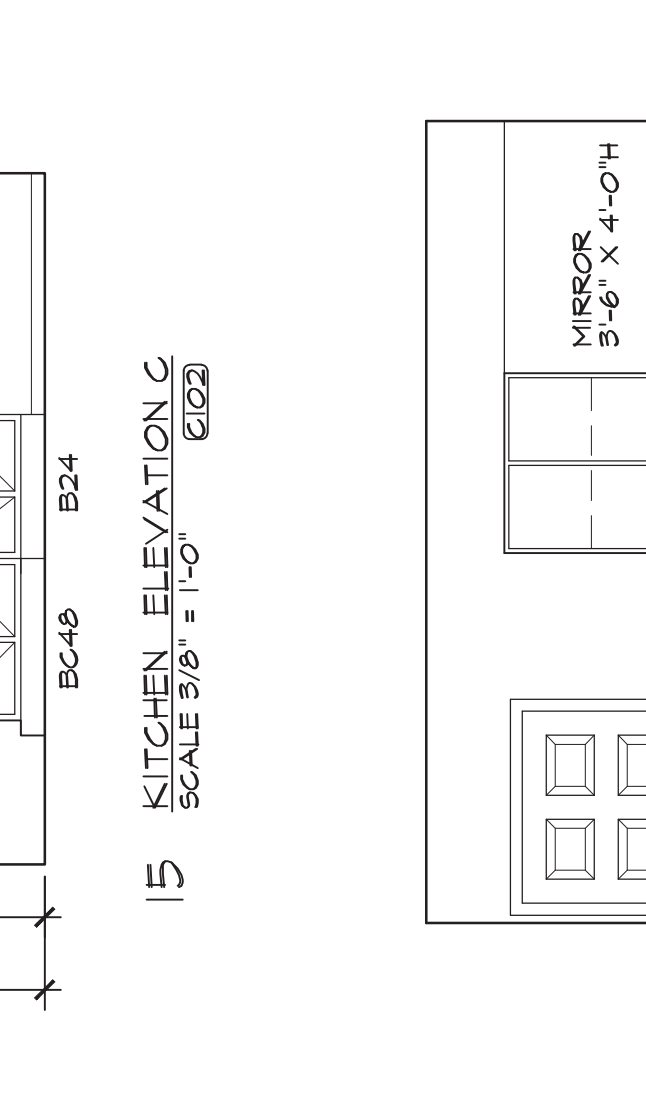
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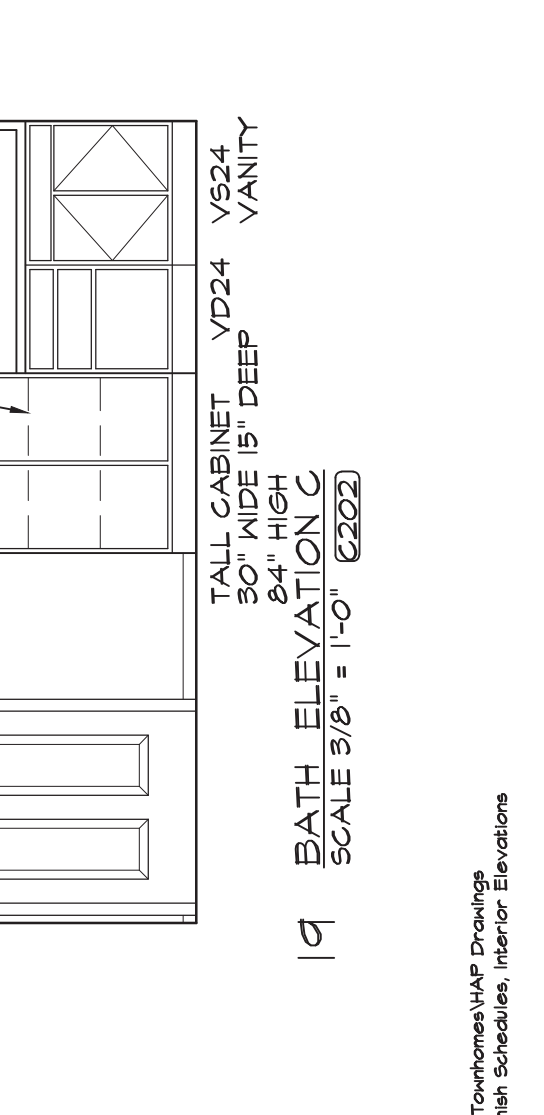
## UNIT TYPE E



## UNIT TYPE F



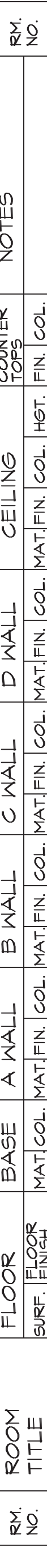
## UNIT TYPE G



# ROOM FINISH SCHEDULE BUILDING TYPE C

RM. NO.	ROOM TITLE	FLOOR SURF. FINISH	BASE MAT. COL.	A WALL MAT. FIN. COL.	B WALL MAT. FIN. COL.	C WALL MAT. FIN. COL.	D WALL MAT. FIN. COL.	CEILING MAT. FIN. COL.	COUNTER TOPS FIN. COL.	NOTES
101	FIRST FLOOR LIVING/DINING	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
102	FIRST FLOOR KITCHEN	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
103	FIRST FLOOR BATH	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
104	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
105	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
106	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
107	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
108	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
109	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
110	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
111	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
112	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
113	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
114	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
115	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
116	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
117	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
118	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
119	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
120	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
121	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
122	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
123	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
124	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
125	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
126	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
127	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
128	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
129	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
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131	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
132	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
133	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
134	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
135	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
136	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
137	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
138	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
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155	FIRST FLOOR MECHANICAL	WOOD	ND-MD-1	GB	LE	LE-2	GB	LE	LE-1	GB
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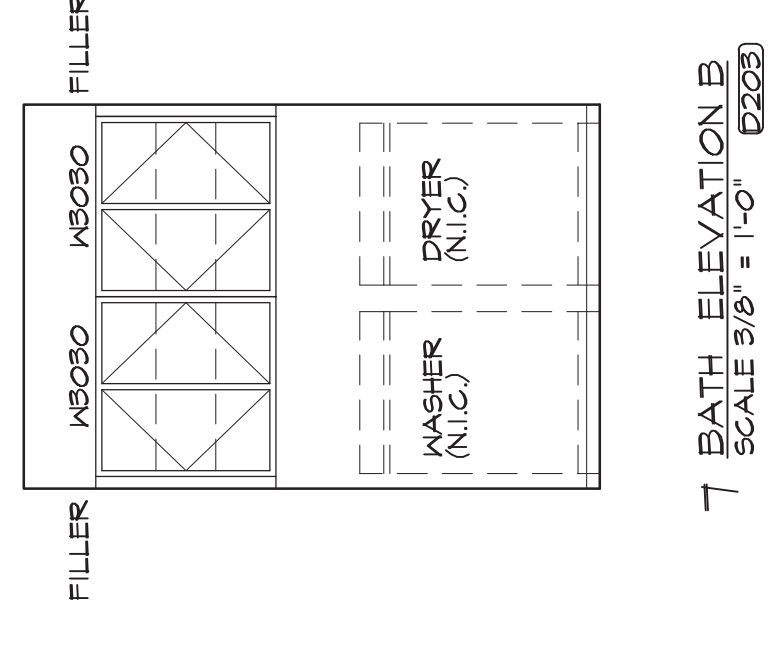
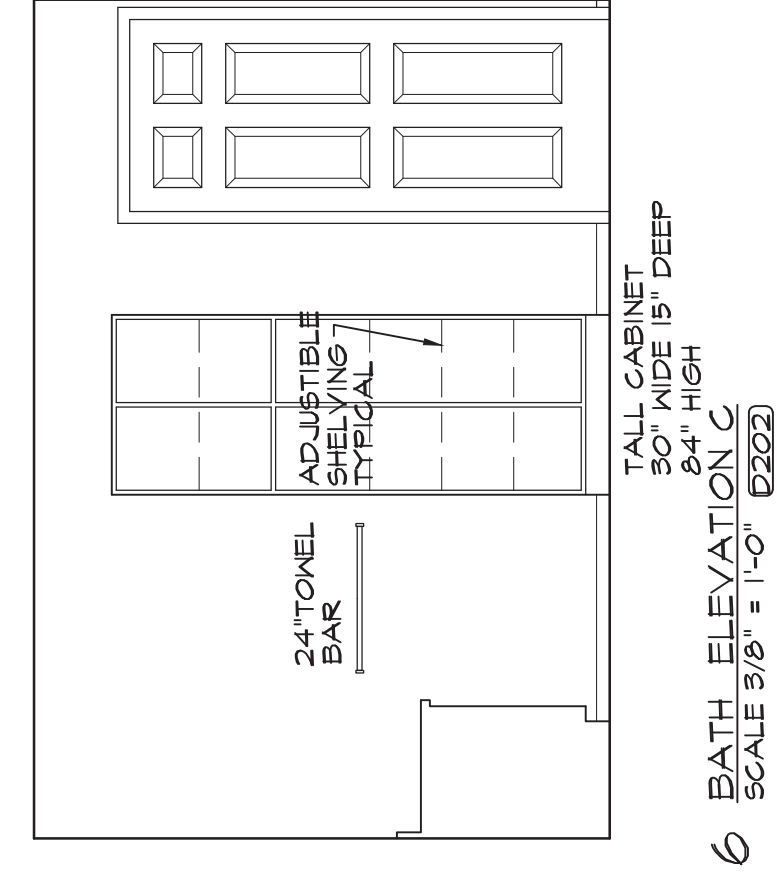
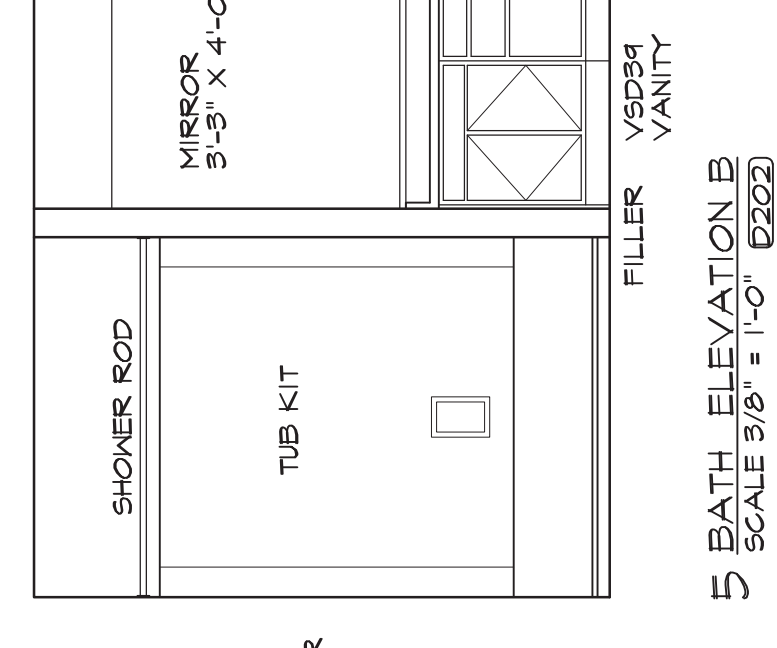
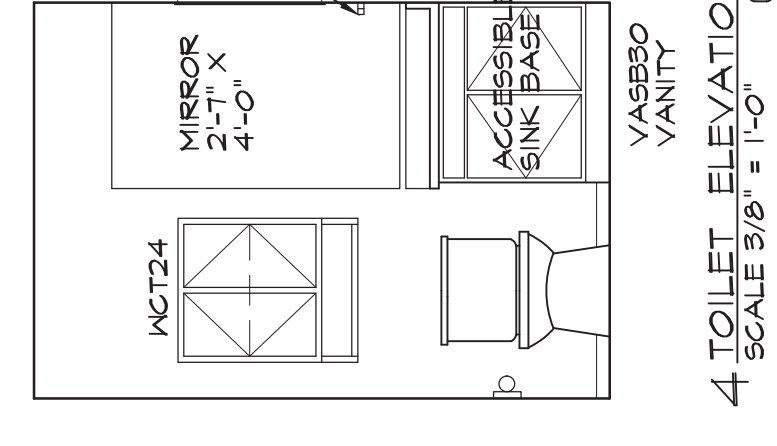
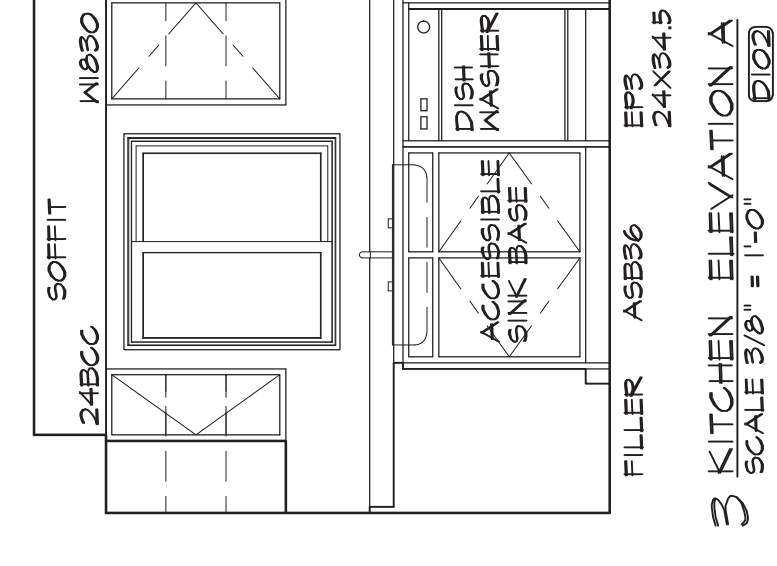
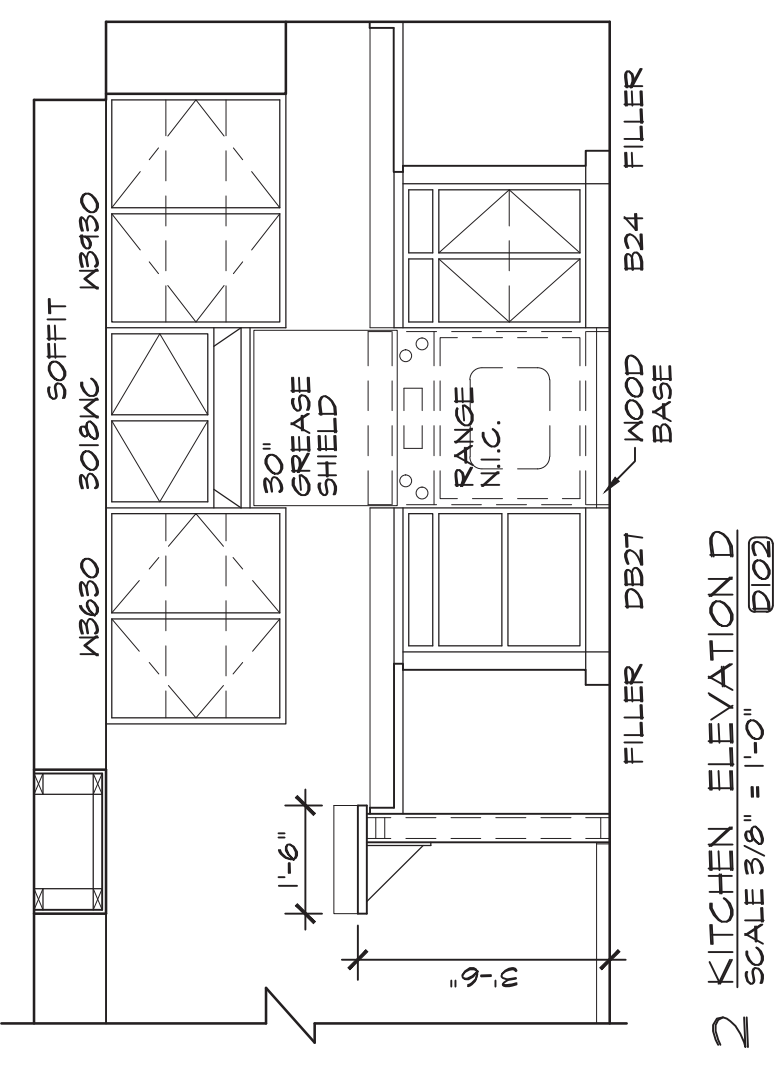
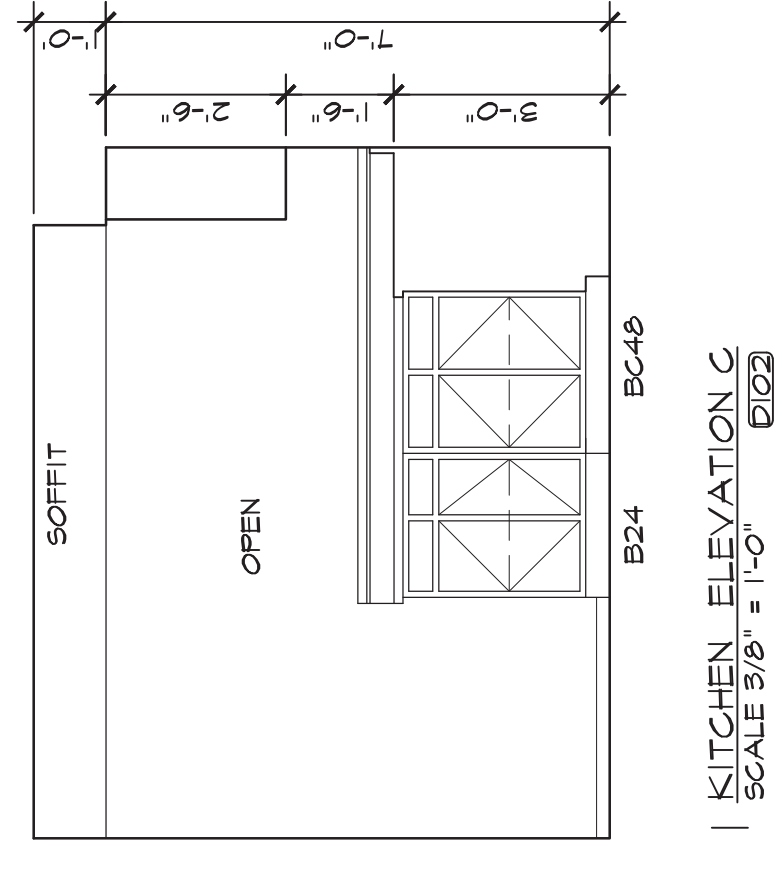
GENERAL NOTES:  
FIELD VERIFY ALL DIMENSIONS.  
FINISHES SHALL BE AS SHOWN FOR ALL CABINETS, SHELVING AND UNDER COUNTER BRACKETS.  
CABINET BLOCKING IN ALL KITCHEN, BATH & TOILET ROOMS WHERE CABINETS WILL BE MOUNTED. HEIGHT OF BLOCKS TO BE MOUNTED SHALL BE AS SHOWN AT THE TOP OF ALL BASE CABINETS, KITCHEN VANITY, AND AT THE TOP AND BOTTOM OF ALL UPPER CABINETS. TYPICAL HEIGHTS: TOP-1" BOTTOM OF UPPER CABINET 4'-8" TOP OF BASE CABINET 2'-4".  
INSTALL BLOCKING IN WALLS FOR ALL GRAB BARS, TONEL BARS AND TOILET PAPER HOLDERS.  
INSTALL GRAB BARS AND TOILET PAPER HOLDERS TO HAVE BLOCKING SET INSIDE CABINET.  
TONEL BARS TO BE INSTALLED AT 42" A.F.F.  
TOILET GRAB BARS 34" A.F.F. (FIRST FLOOR TOILET ROOM ONLY)  
HORIZONTAL BLOCKING CENTERED AT 32" ABOVE NOSING.  
VERTICAL BLOCKING TO THE BLOCKING ARE TO THE CENTER OF TYPICAL 3'X4' AND 2'X6' BLOCKING.  
ALL CABINETS TO RECEIVE PLASTIC LAMINATE COUNTERTOPS WITH 4" BACK END AND SIDE SPLASH. REI. SPECIFICATIONS AS SHOWN.  
ALL CABINETS TO HAVE FINISHED TOE KICKS. FINISHED EXPOSED END PANELS AND FILLER AS CALLED FOR ON ELEVATIONS. TYPICAL FILLER 1/2" TO 3".  
BATH AND TOILET CABINETS TO HAVE INTERIOR PANEL AT OPENINGS.  
WASHER, DRYER, RANGE AND REFRIGERATOR NOT IN CONTRACT (N.I.C.).  
DISHWASHER SUPPLIED AND INSTALLED BY CONTRACTOR. REI. FINISHES FINISH SCHEDULE.



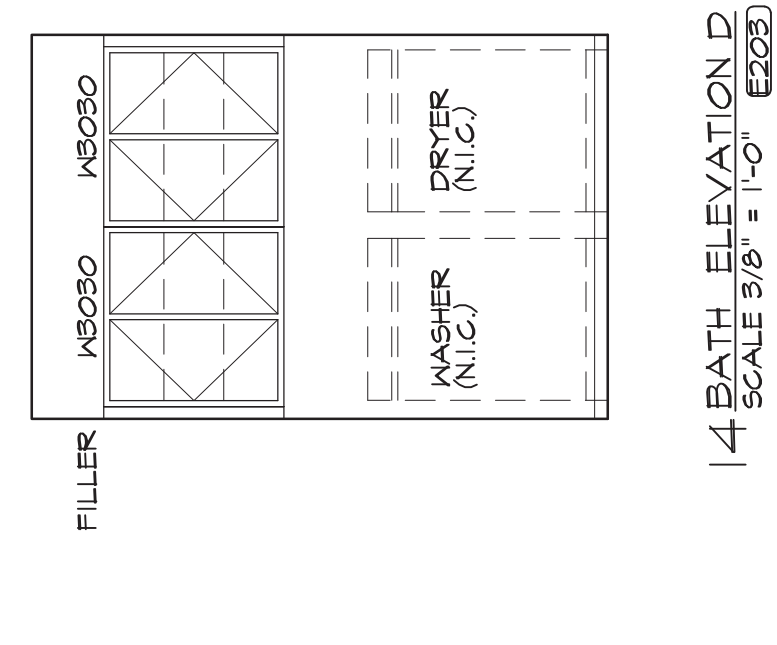
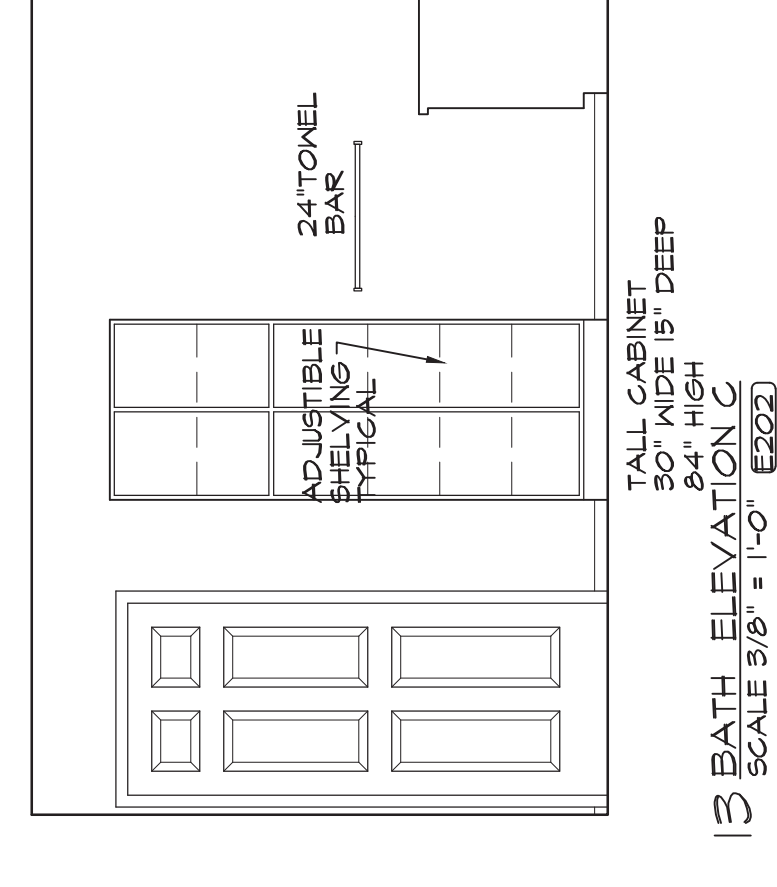
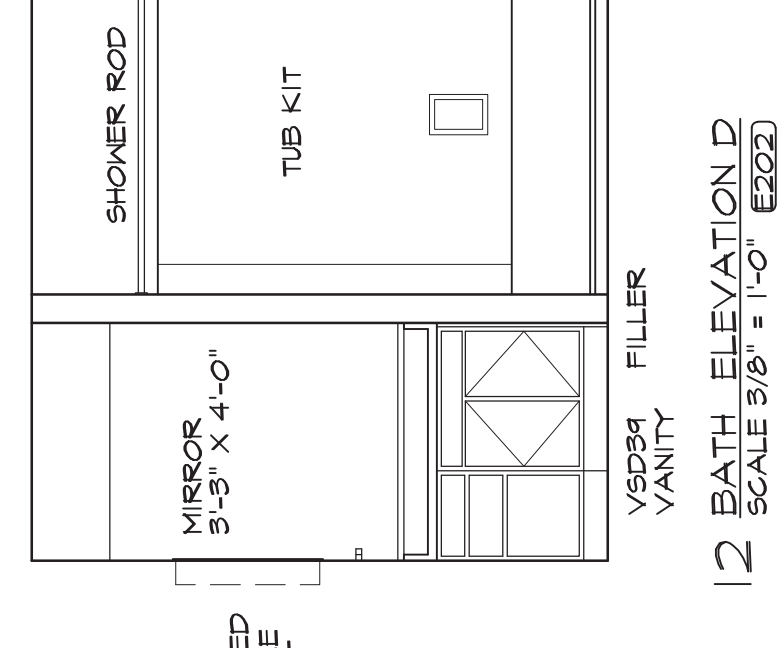
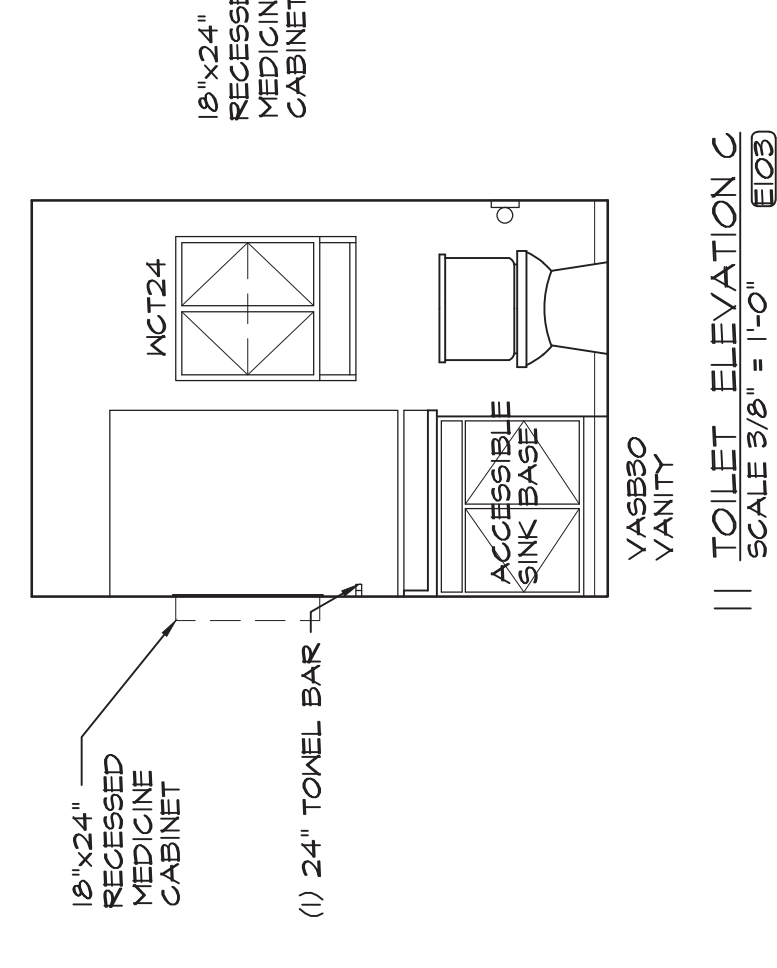
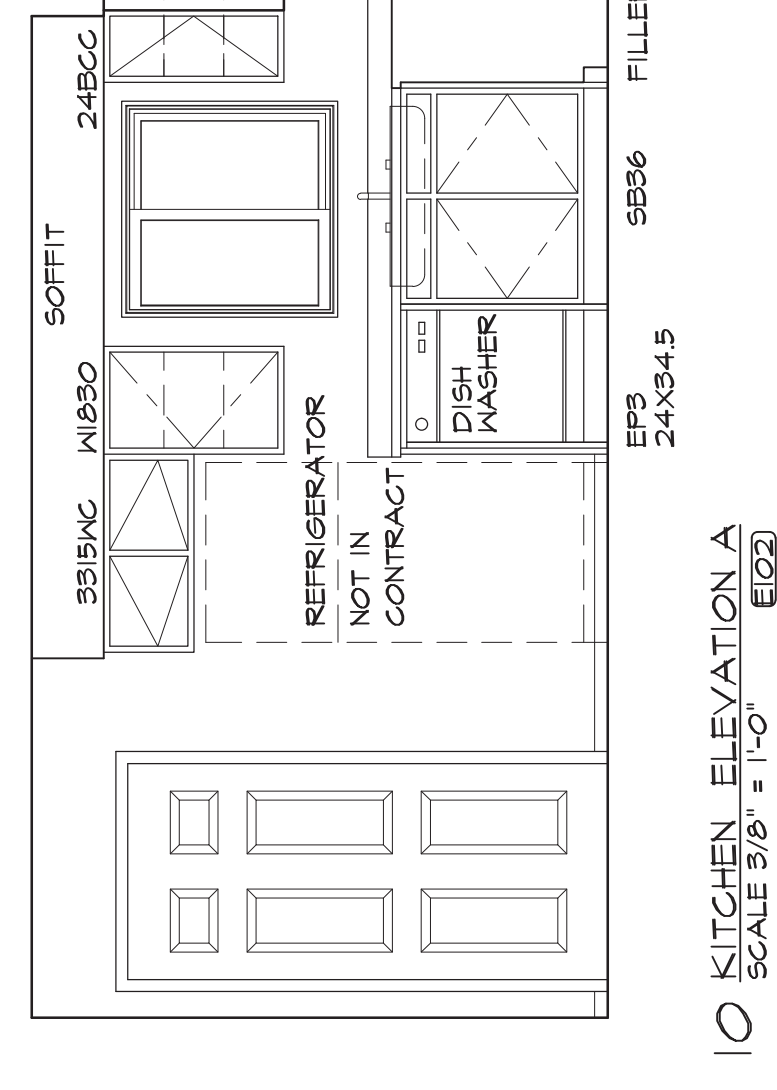
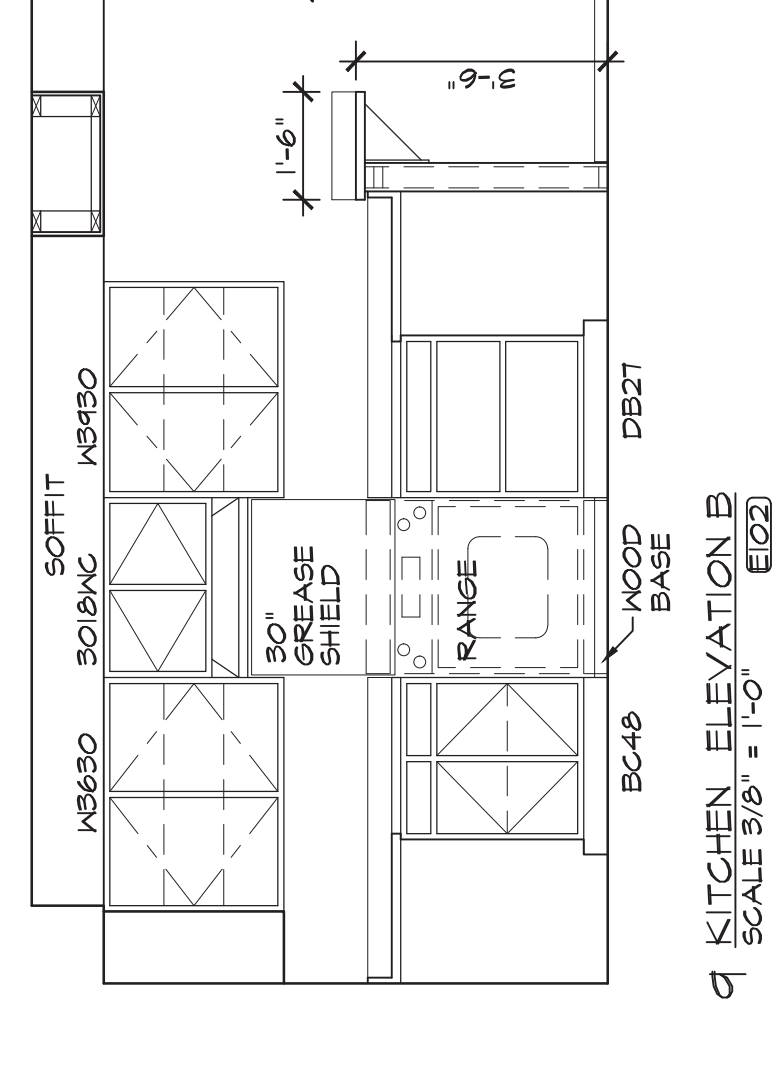
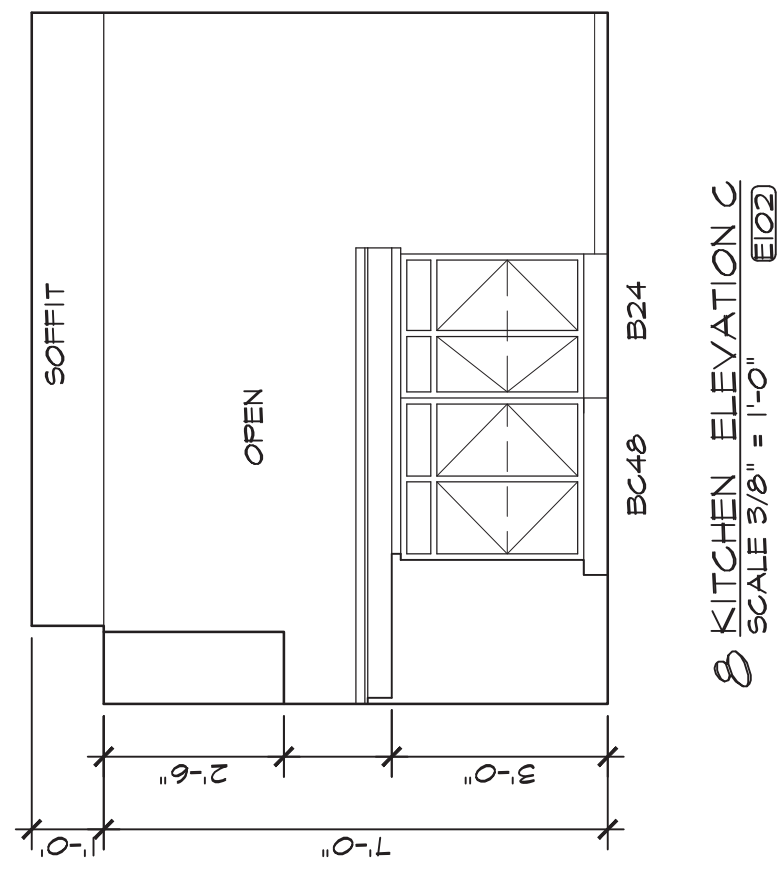


BUILDING TYPE C CONTINUED

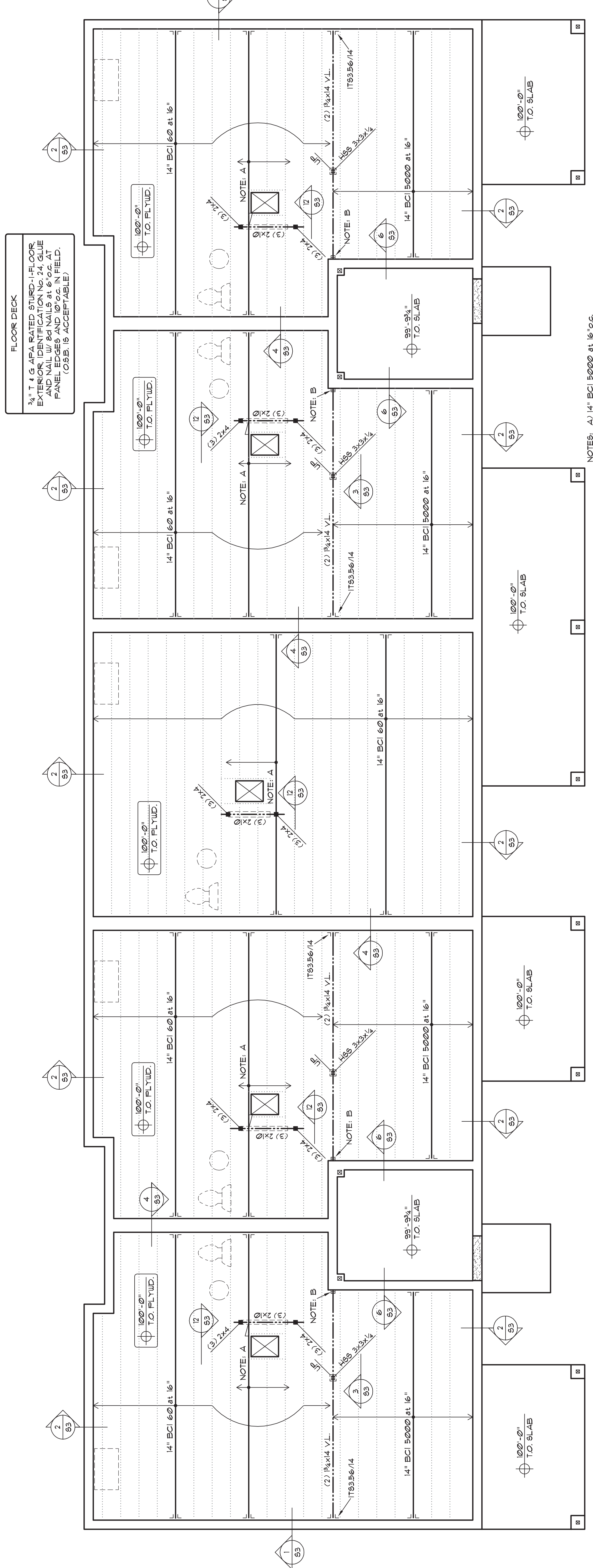
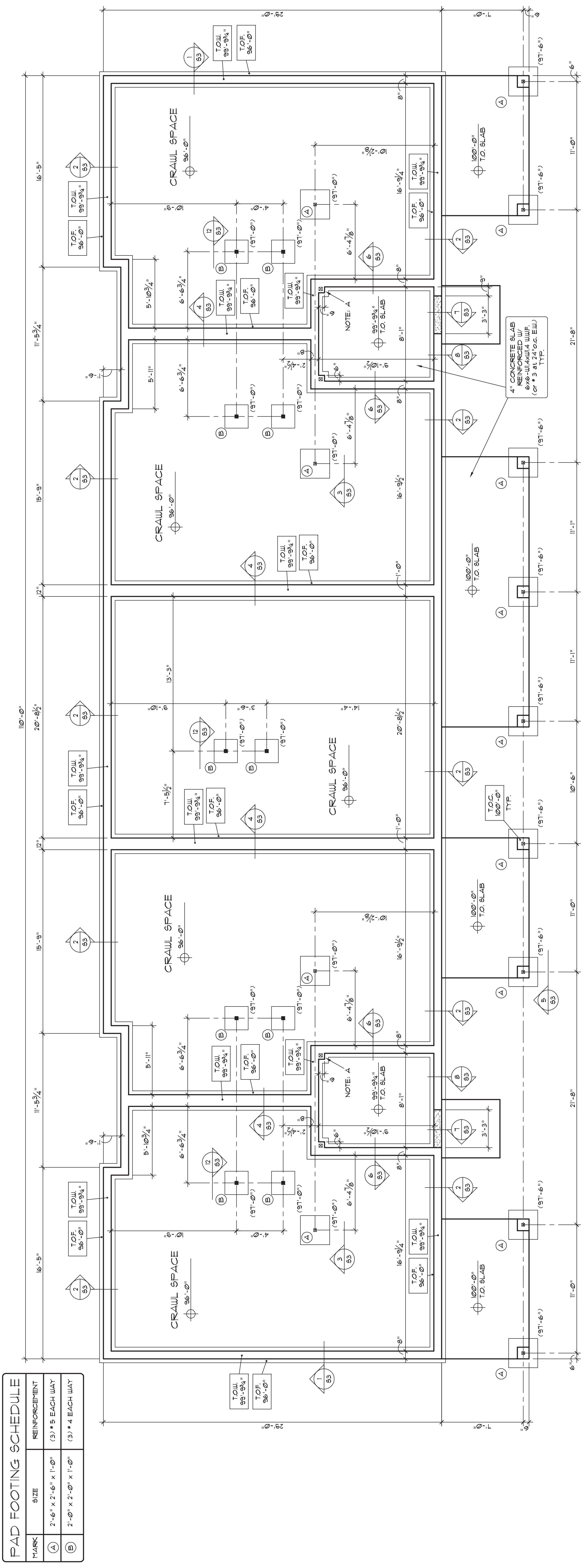
UNIT TYPE D



UNIT TYPE E



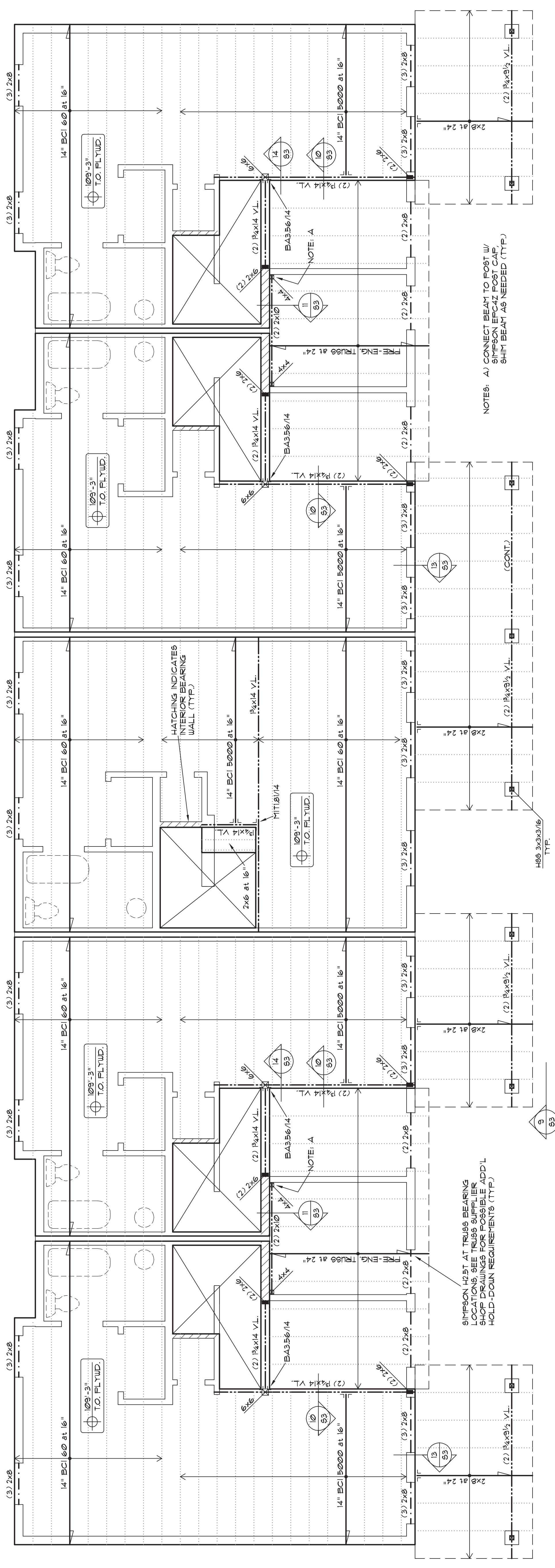






**FLOOR DECK**  
 5/16" G. APA RATED 5/16" G. FLOOR SHEATHING EXPOSURE 1 IDENTIFICATION No. 241/6 NAIL W/ 8d NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. IN FIELD.

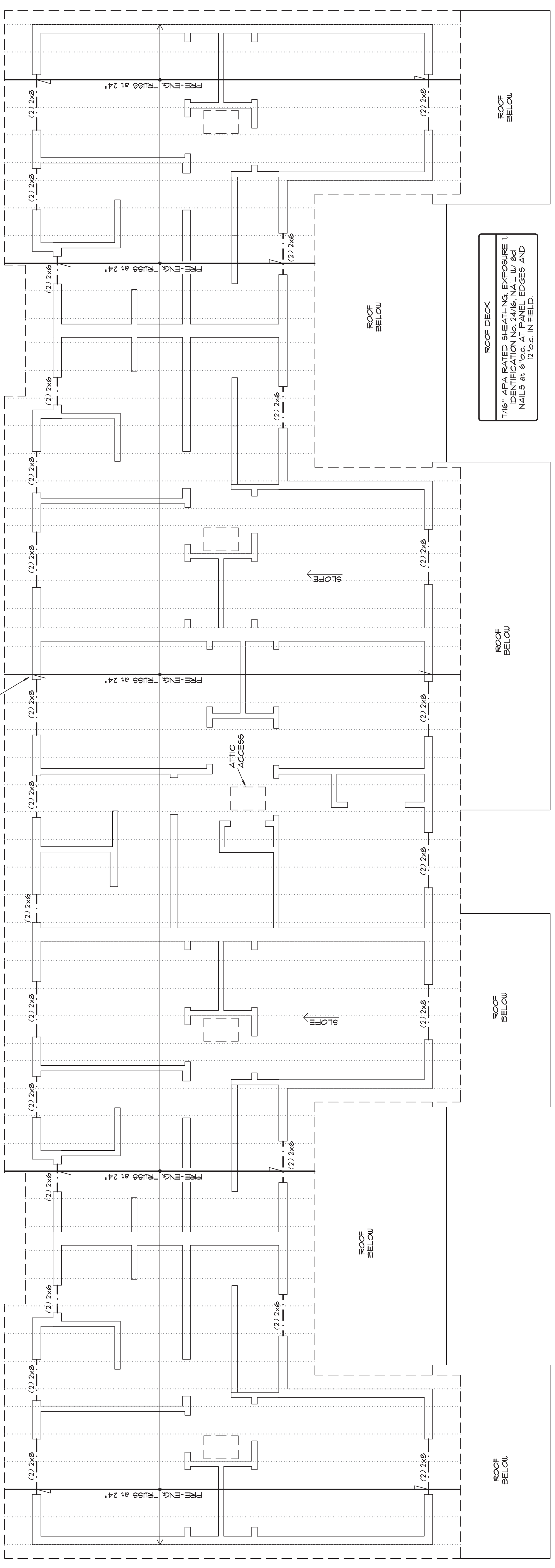
**FLOOR DECK**  
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**UPPER FLOOR / LOW ROOF FRAMING PLAN**  
 SCALE: 1/4"=1'-0"

NOTES: A) CONNECT BEAM TO POST W/ SIMPSON EPCAZ POST CAP. SHIM BEAM AS NEEDED (TYP.)

SIMPSON I237 AT TRUSS BEARING STOP DRAWINGS FOR POSSIBLE ADD'L HOLD-DOWN REQUIREMENTS (TYP.)

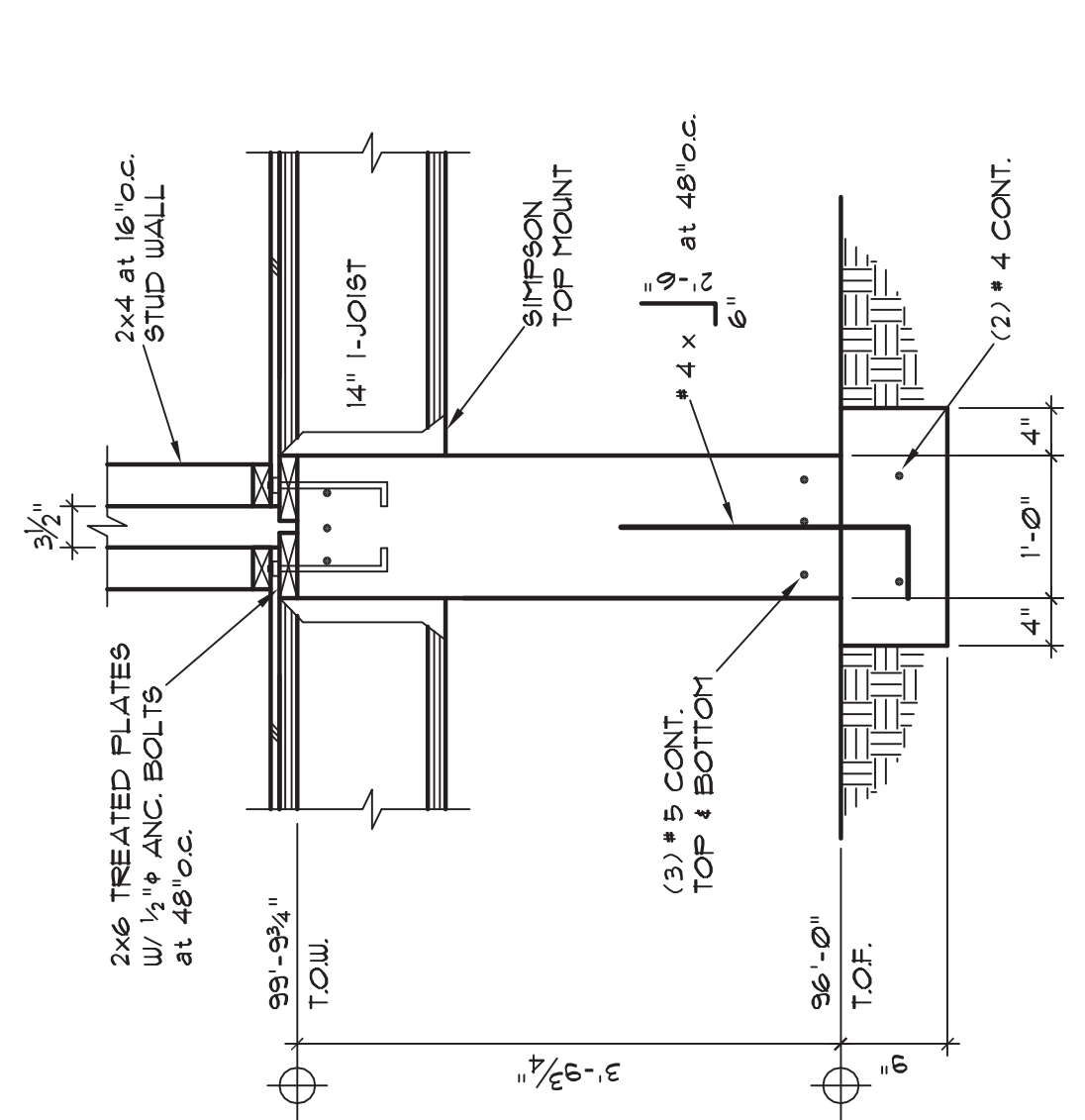


**HIGH ROOF FRAMING PLAN**  
 SCALE: 1/4"=1'-0"

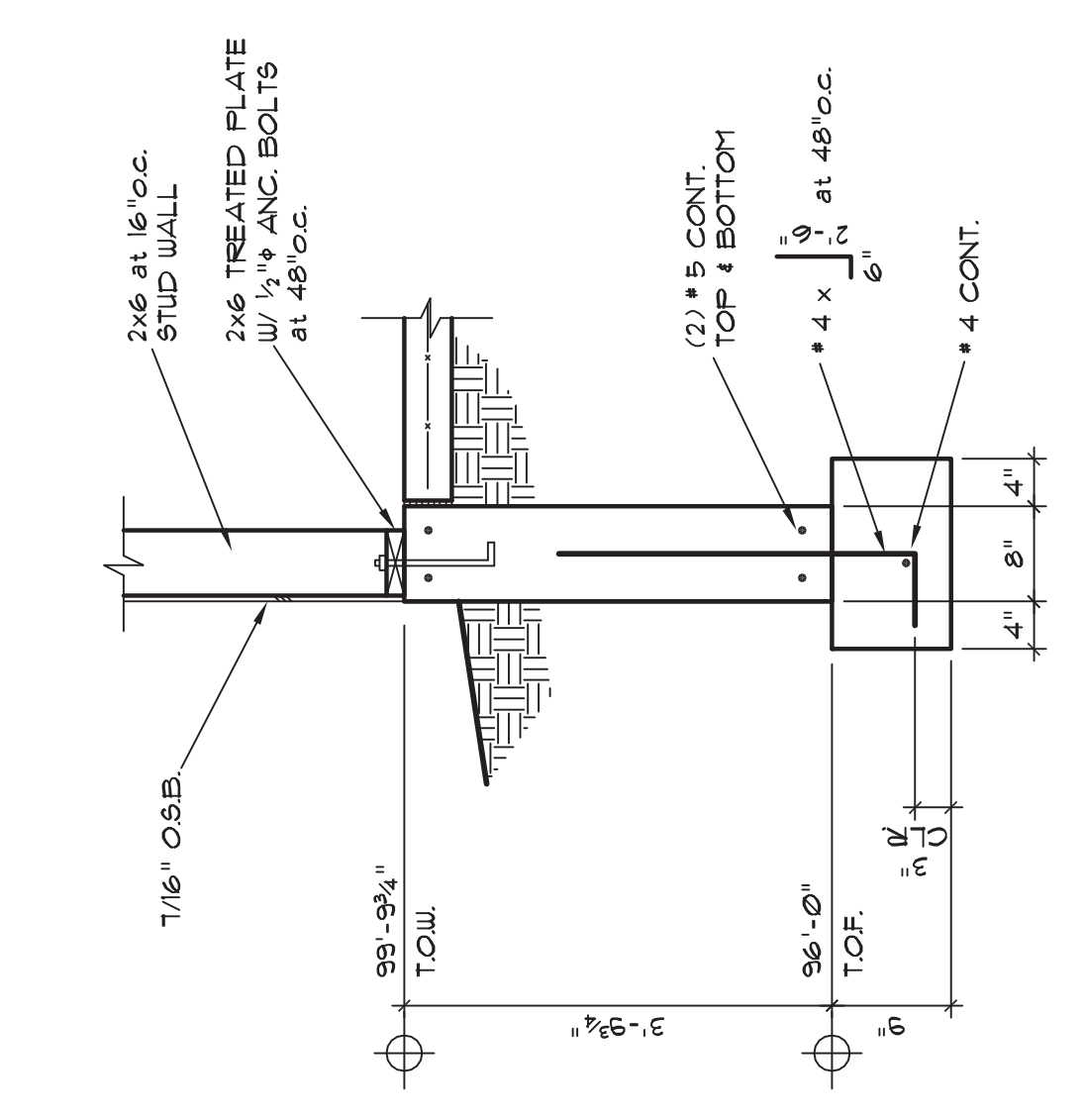
**ROOF DECK**  
 5/16" APA RATED SHEATHING EXPOSURE 1 IDENTIFICATION No. 241/6 NAIL W/ 8d NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. IN FIELD.

**ROOF DECK**  
 5/16" APA RATED SHEATHING EXPOSURE 1 IDENTIFICATION No. 241/6 NAIL W/ 8d NAILS AT 6" O.C. AT PANEL EDGES AND 12" O.C. IN FIELD.

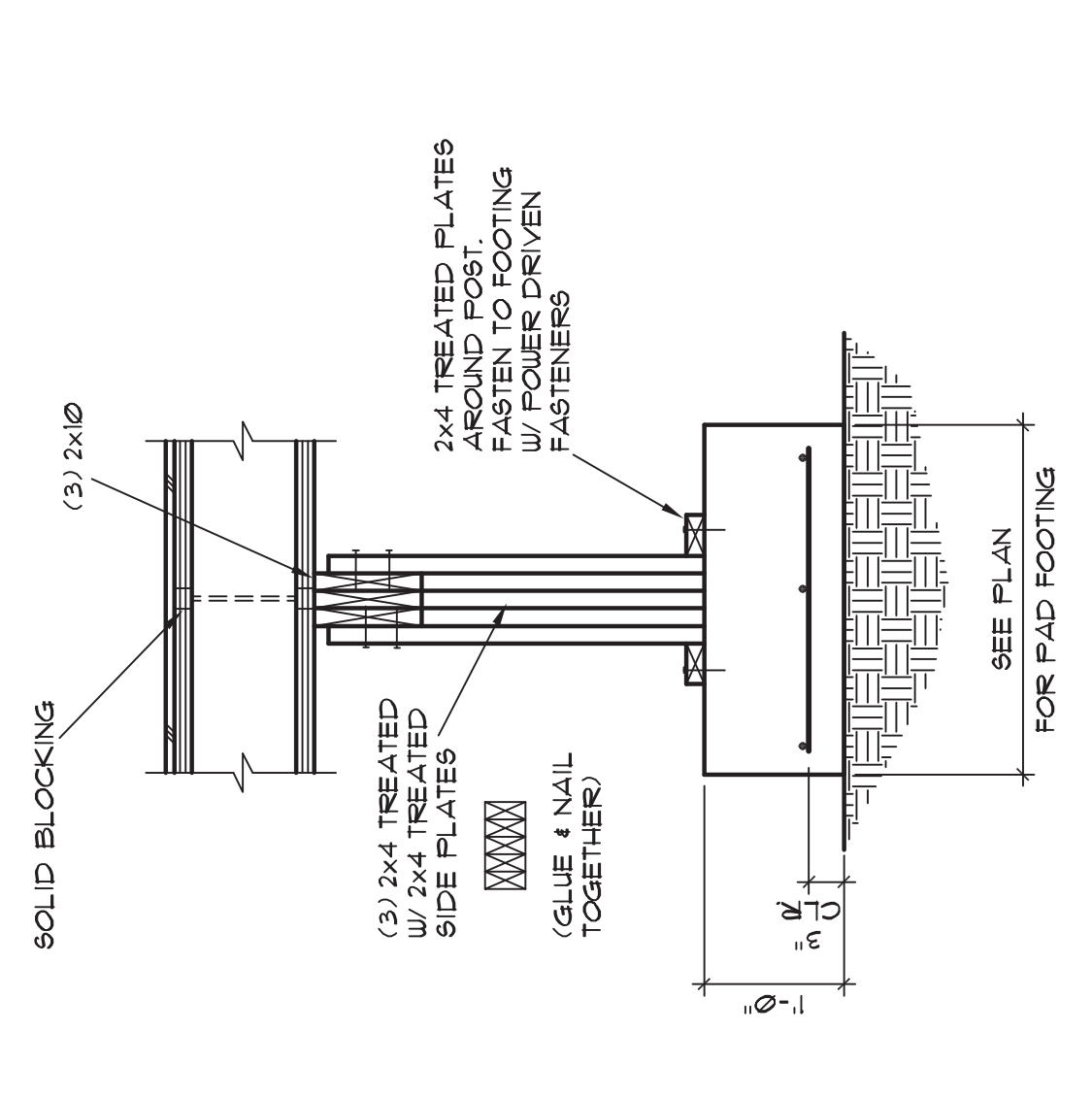




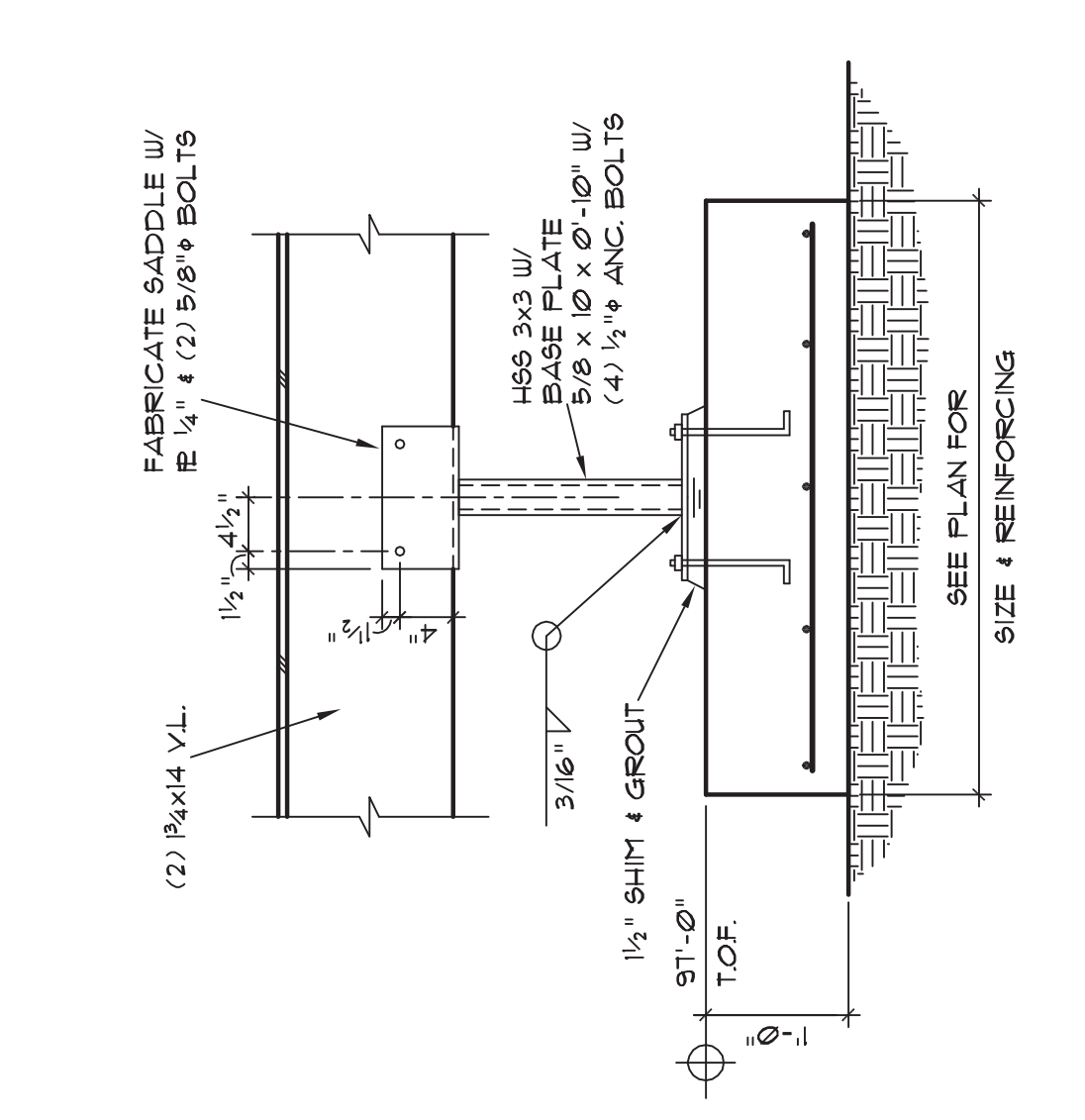
**4** SCALE: 3/4"=1'-0"



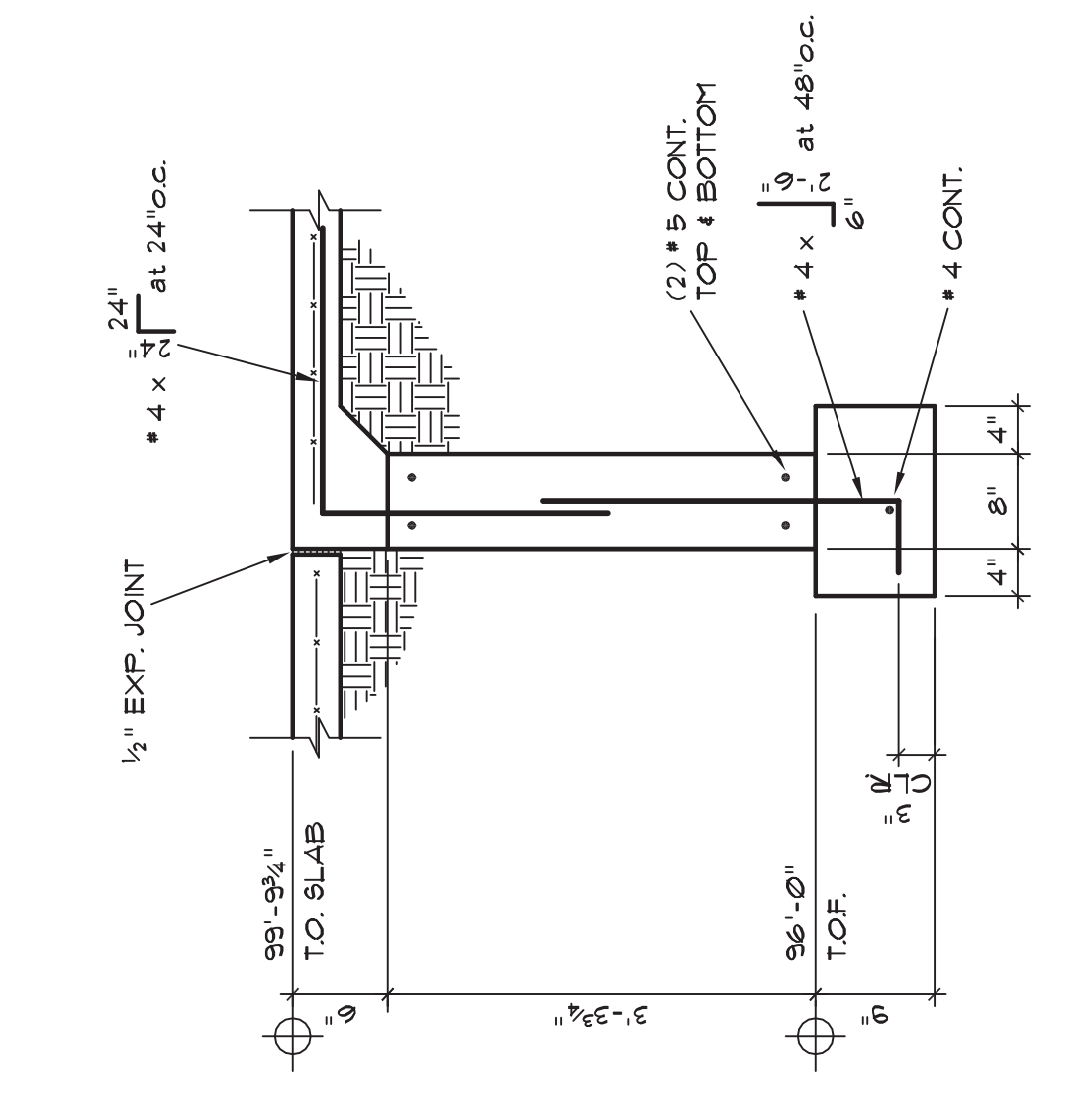
**8** SCALE: 3/4"=1'-0"



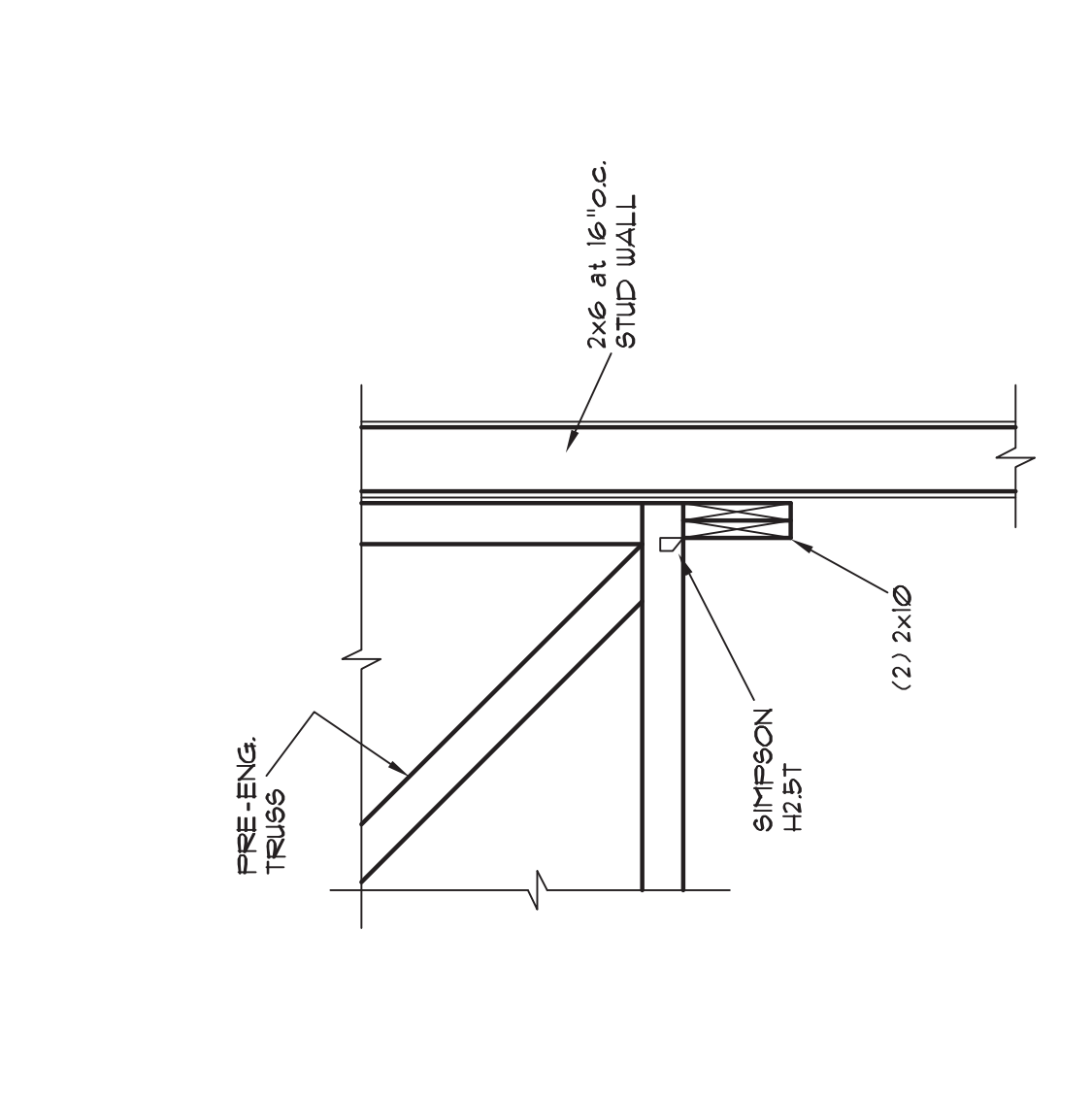
**12** SCALE: 3/4"=1'-0"



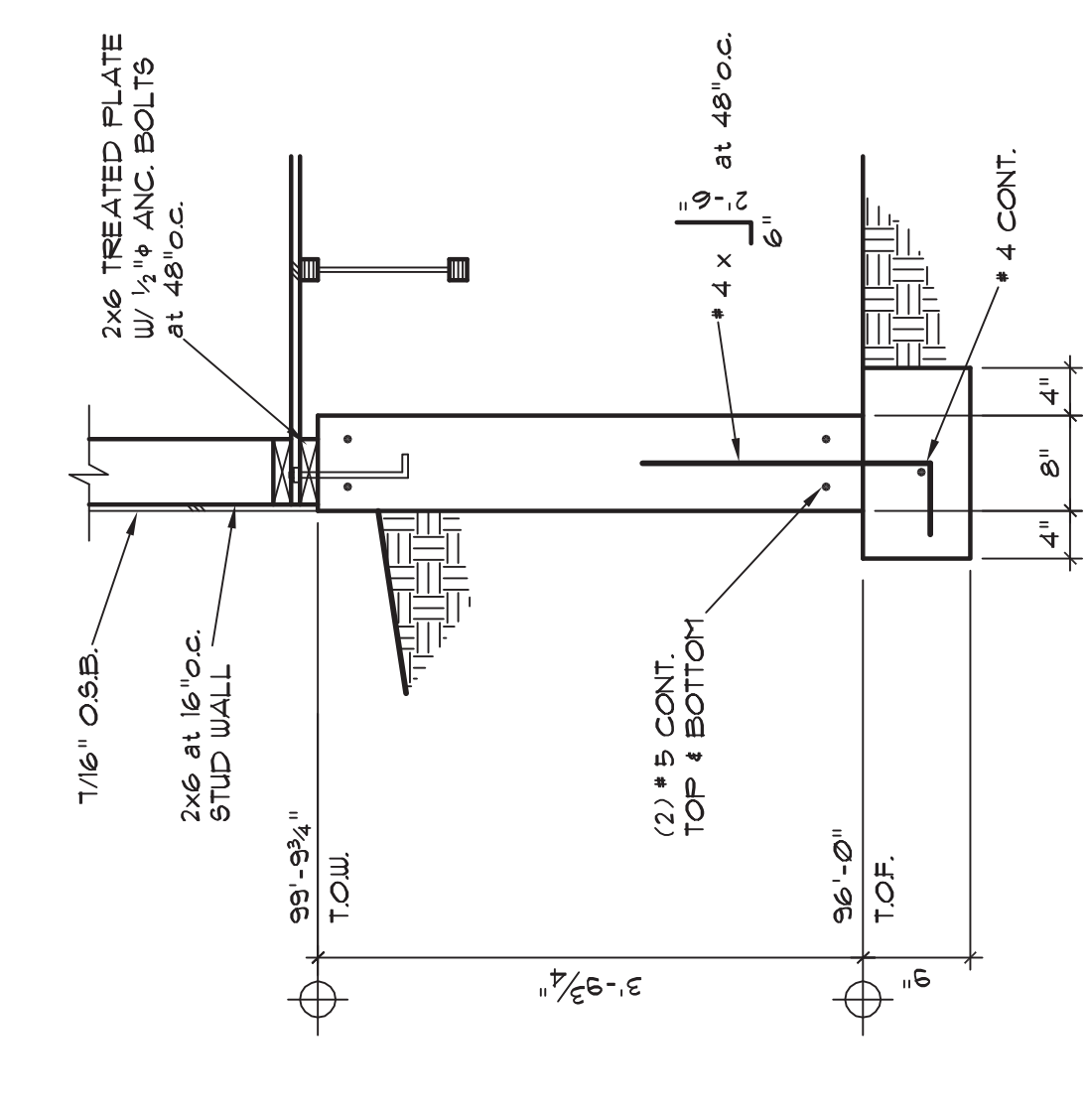
**3** SCALE: 3/4"=1'-0"



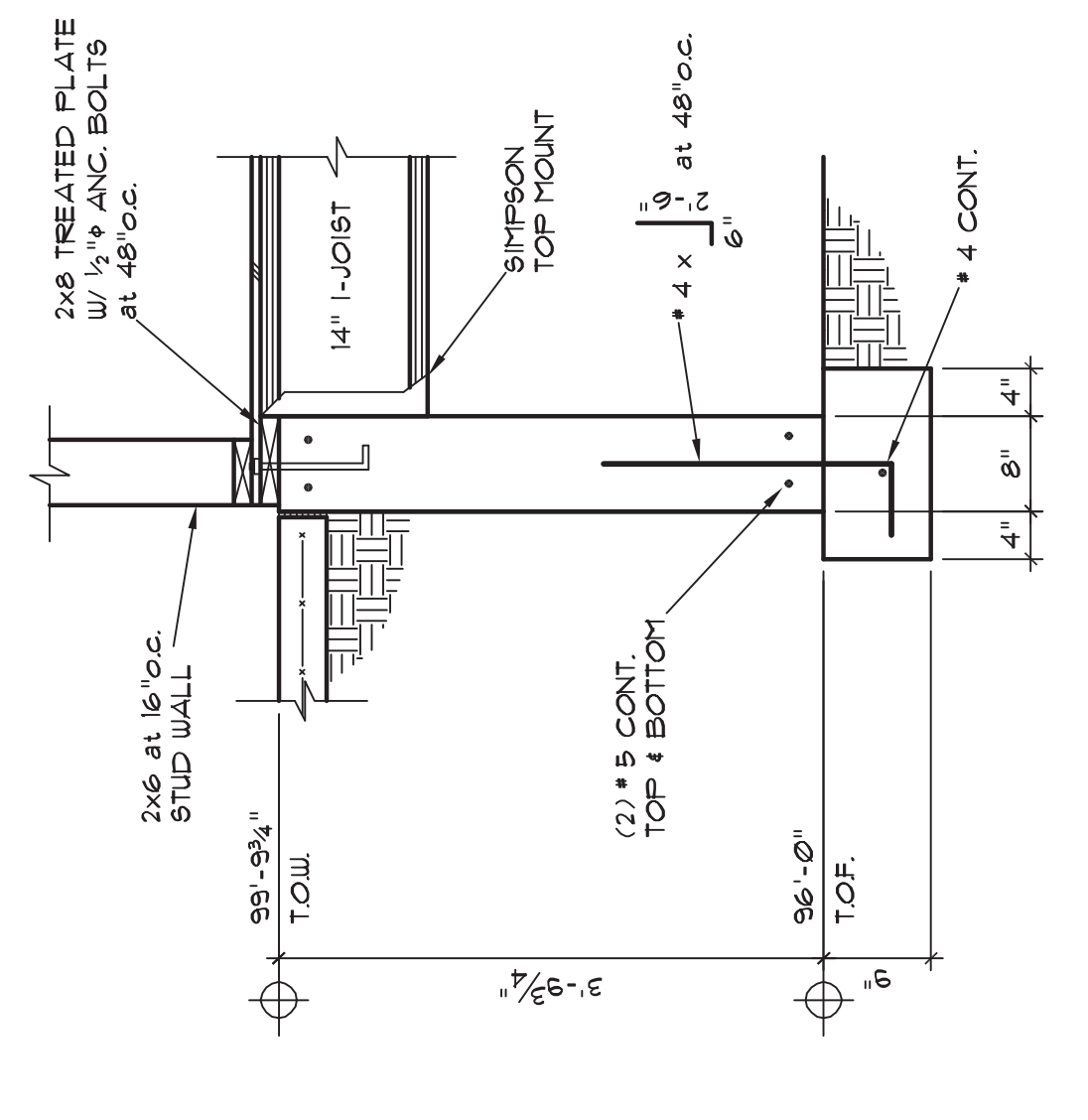
**7** SCALE: 3/4"=1'-0"



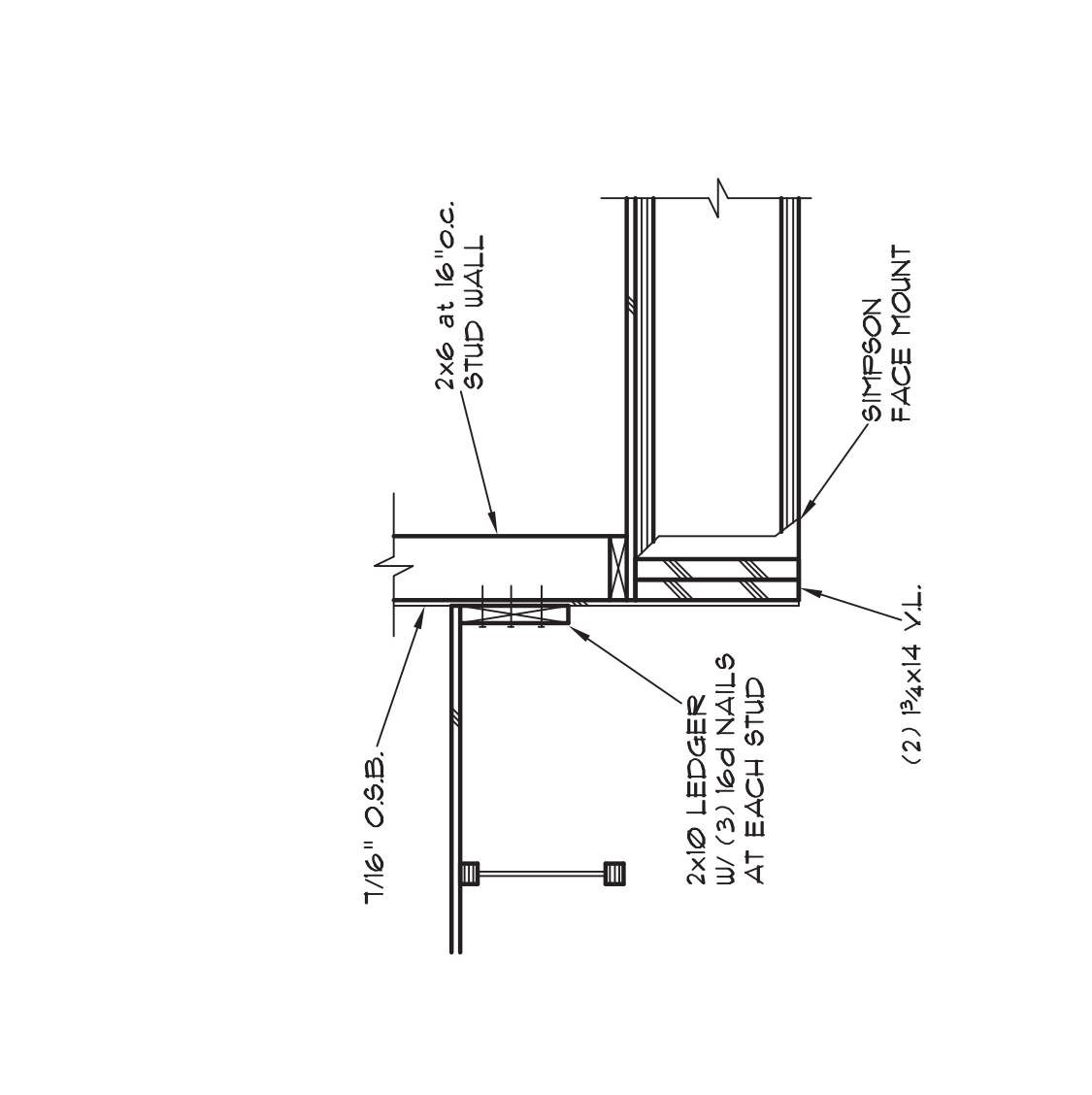
**11** SCALE: 3/4"=1'-0"



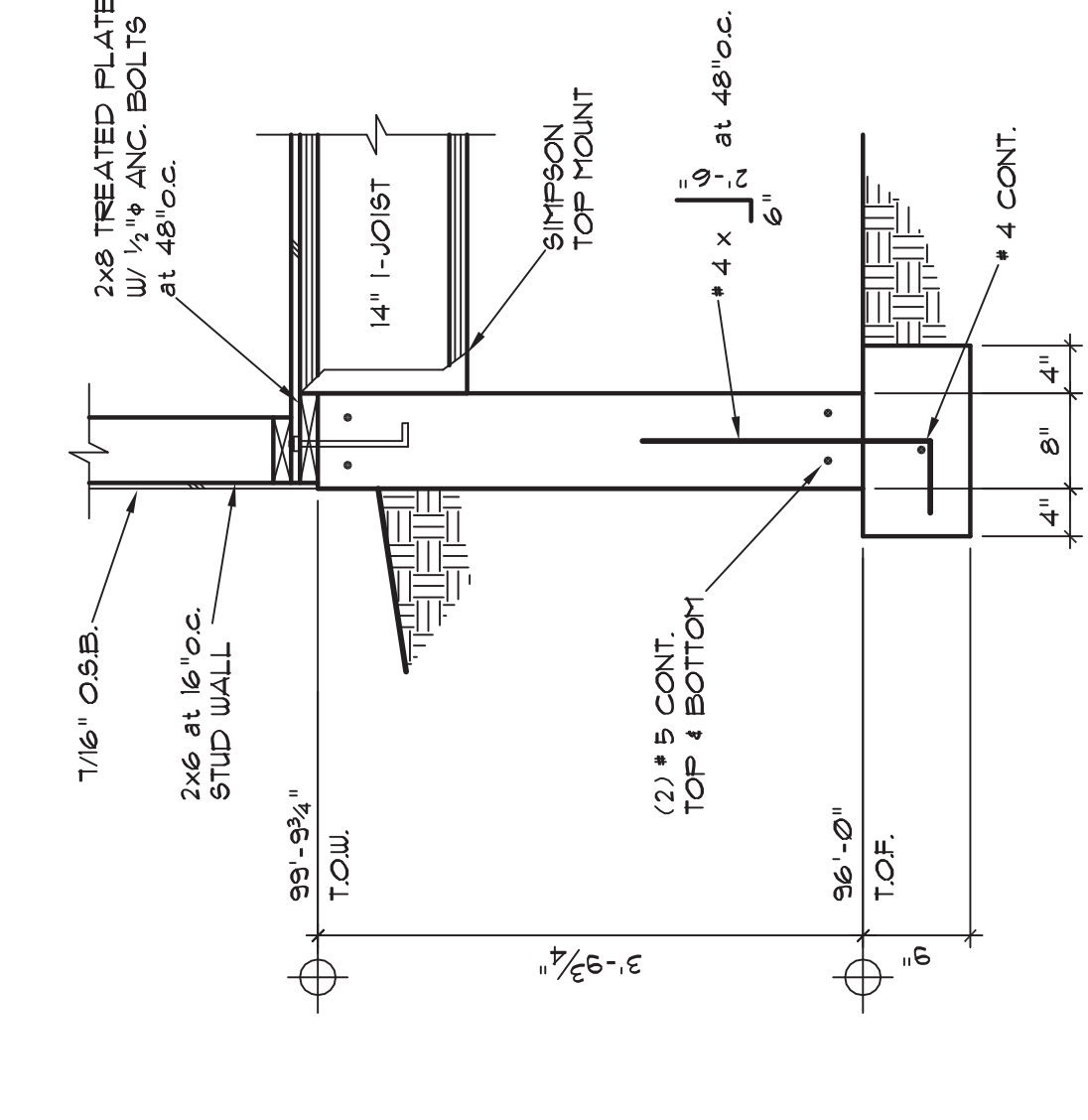
**2** SCALE: 3/4"=1'-0"



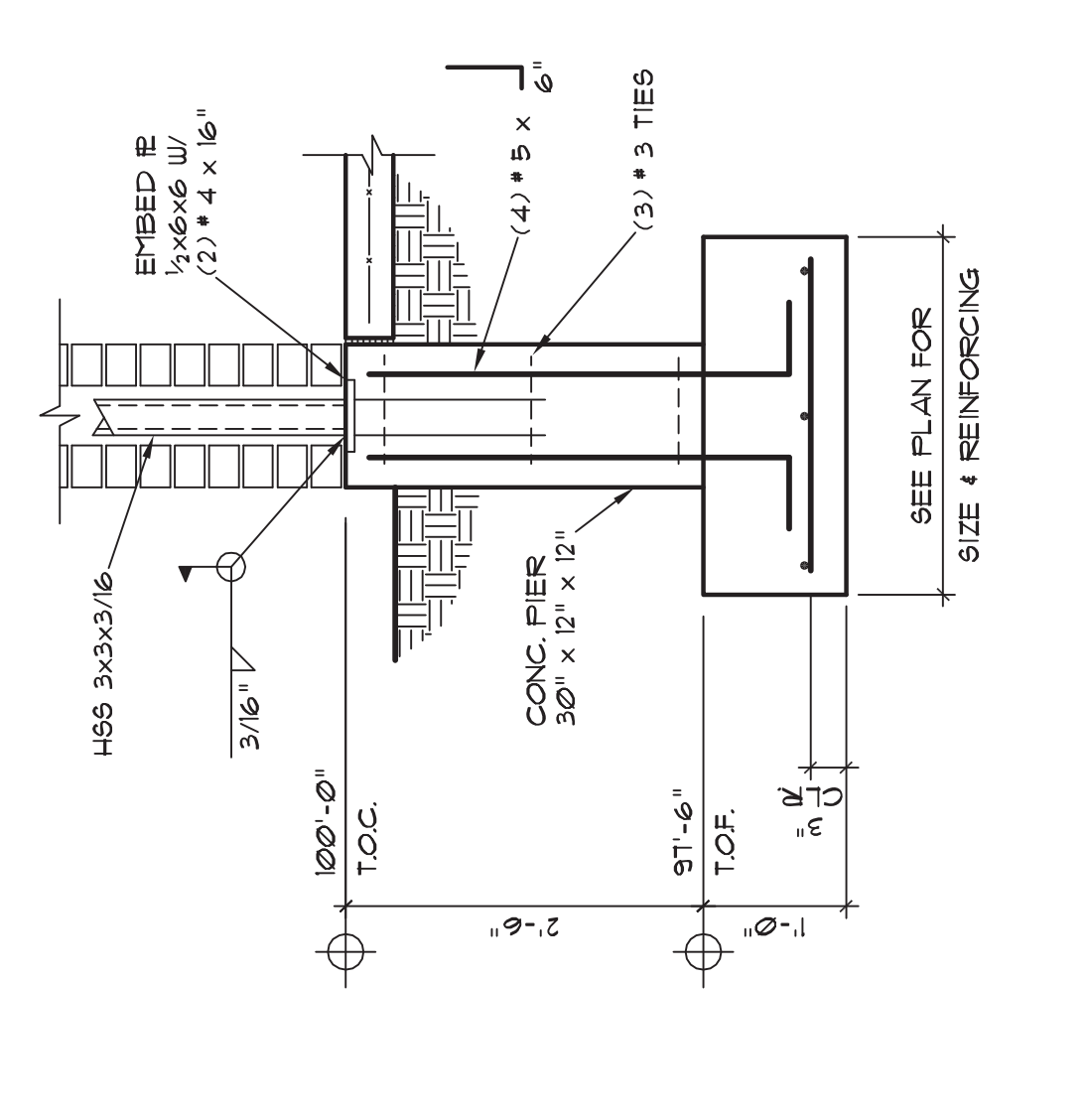
**6** SCALE: 3/4"=1'-0"



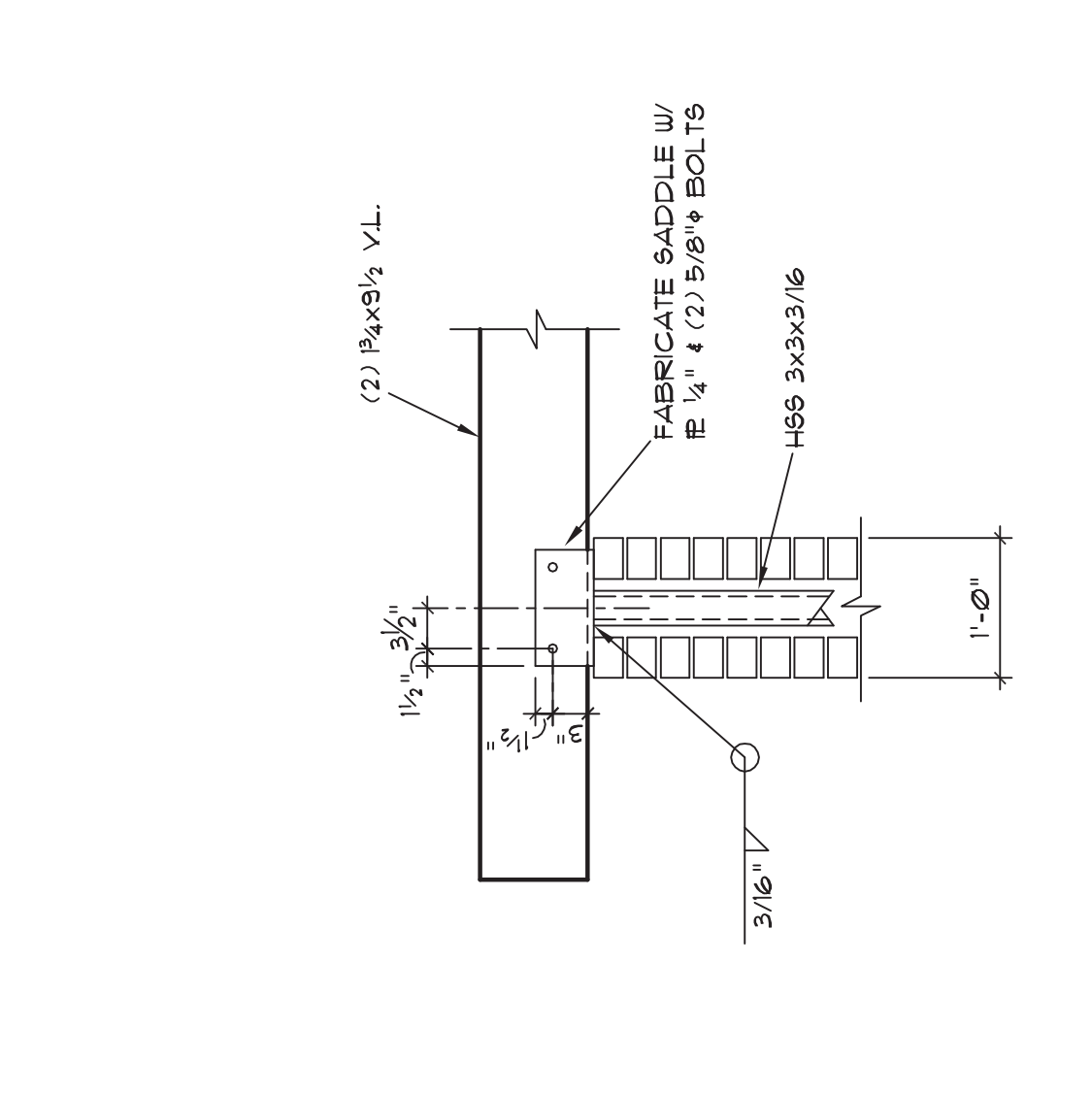
**10** SCALE: 3/4"=1'-0"



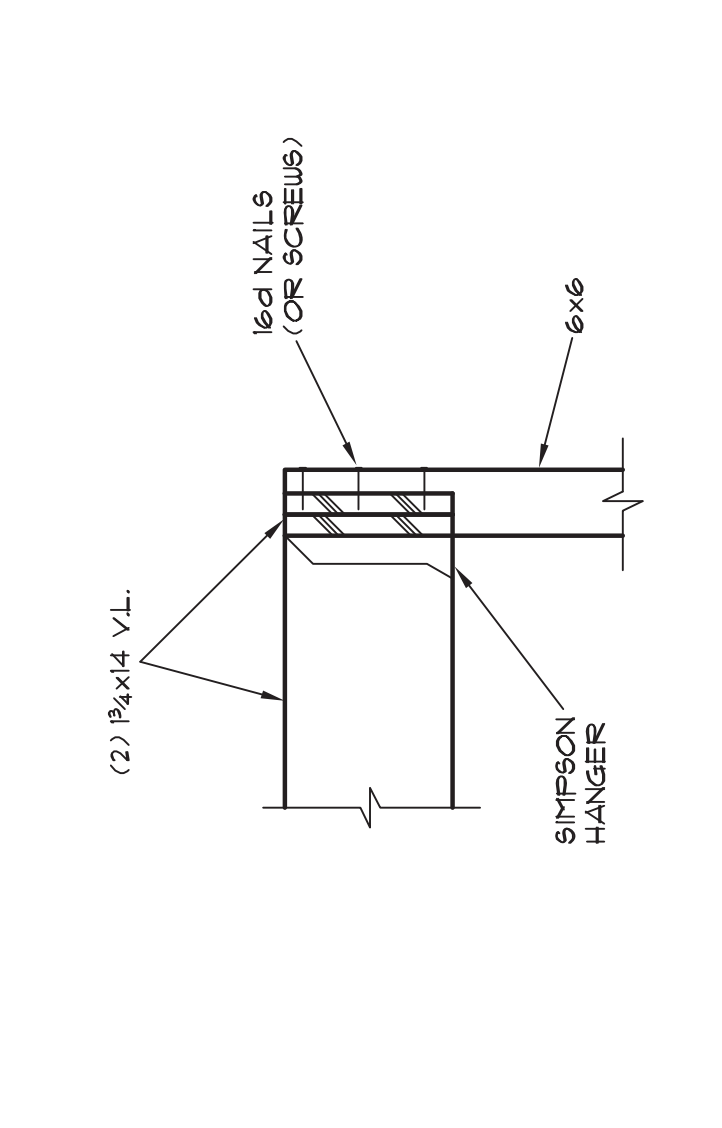
**1** SCALE: 3/4"=1'-0"



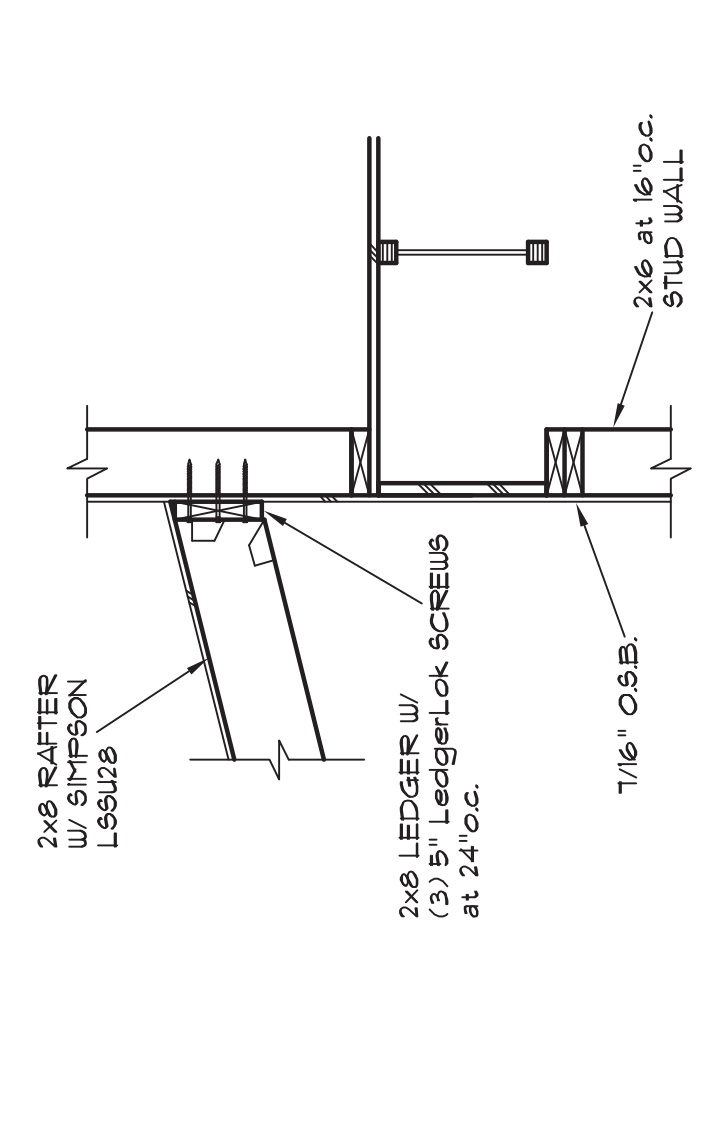
**5** SCALE: 3/4"=1'-0"



**9** SCALE: 3/4"=1'-0"



**14** SCALE: 3/4"=1'-0"



**13** SCALE: 3/4"=1'-0"

**GENERAL NOTES**

- This project is designed in accordance with the following codes:
  - Floor: Building Code (IBC) 2015 Edition.
  - Dead Loads: 15 psf (20 psf at trusses)
  - Live Loads: 30 psf (40 psf at trusses)
  - Wind: 115 mph, Exposure 'C'
- The structure shall be founded on signed footings placed on a minimum of 18" with a maximum bearing pressure of 3,000 psf.
  - Minimum frost depth of footings shall be 30" (top of grade elevations). Refer to all top of footing elevations.
- Refer to set report # SC03225-125, dated June 1, 2016 and approved by C.L. Thompson for additional information.
- Concrete:
  - Concrete has been designed and shall be constructed in accordance with the Building Code Requirements for Structural Concrete (ACI 318). All concrete shall be of stone aggregate, unless otherwise specified.
  - Minimum compressive strength shall be:
    - Foundation concrete shall be made with cement that meets ASTM C150 Type II, 20% fly ash and a minimum 28 day compressive strength of 4,000 psi total at a minimum of 15 percent fly ash, 15 percent slag, and 15 percent silica fume. The water-cement ratio shall be 0.40, unless otherwise specified.
    - Slabs: 4,000 psi
    - Reinforcing shall be new billet steel ASTM A615, grade 60, except stirrups, ties and bars to be welded shall be grade 40. Provide concrete cover to all reinforcement. Reinforcing bars 24" past edge of openings.
  - Lap Splices shall be Class B. Use the following lap lengths, UN O.:
    - 57 bar diameters for 3,000 psi concrete.
    - 50 bar diameters for 4,000 psi concrete.
  - Reinforcing shall be lap spliced in accordance with additional requirements for lap splicing in concrete and steel reinforcement, and accessories necessary to support reinforcement at position shown. Support of reinforcement shall be by shoring, brack, or other unacceptible material will not be allowed.
- Minimum concrete cover:
  - Concrete cast against and permanently exposed to weather: 3 inches
  - Concrete exposed to earth or weather:
    - # 6 bar and larger: 2 inches
    - # 4 bar and smaller: 1.5 inches
- Anchor bolts (Anchor bolts shall be grade 36, conforming to ASTM F1933, and shall be installed in concrete embedment of 7" with a 2" hook, unless noted otherwise.
- Exterior slab/sidewalls shall be 4" thick (minimum) reinforced concrete.
  - Structural steel shall be detailed and erected in accordance with the American Institute of Steel Construction's (AISC) 13th Edition, Allowable Stress Design and Plastic Design (ASD) and the American Institute of Steel Construction's (AISC) 13th Edition, Specification for Structural Steel Buildings (SSC) 305 for all other members (ASTM A36).
- Use standard framed beam connections meeting the requirements of the "Manual of Steel Construction" ASD, 13th Edition, published by the American Institute of Steel Construction, Inc. (AISC), and the "Specification for Structural Steel Buildings" (SSC) 305 for all other members (ASTM A36), published by the American Institute of Steel Construction, Inc. (AISC).
- Minimum welds per AISC Specification and AWS D1.1, Structural Welding Code - Steel (AWS D1.1). All welds shall be done to develop 1.5 times the yield strength of the reinforcement plates that require grout shall bear on non-shrink grout.
- Wood:
  - Structural Lumber shall be (UN O.):
    - Studs: Hem-fir Stud grade
    - Headers: Hem-fir # 2
    - Joists: Hem-fir Joist grade
  - Wood construction shall be in conformance with the "National Design Specification for Stress Grade Lumber and its Associated Specifications" published by the American Institute of Wood Technology, Inc. (AIW) and the "National Design Specification for Wood Construction" published by the American Institute of Wood Technology, Inc. (AIW).
  - Stain-treated (or galvanized) connectors, fasteners and anchors shall be used with preservative-treated woods.
  - Exterior walls shall be fully sheathed with 7/16" oriented strand board (OSB) or 5/8" plywood.
  - Plywood web joists and Vessalam LVL (20E - noted V.L. on plans) shall be manufactured by Boise Cascade, or approved by the Structural Engineer.
  - Locate floor joists so that they do not interfere with plumbing, electrical, or other mechanical systems. All joists shall be installed in accordance with the "National Design Specification for Wood Construction" published by the American Institute of Wood Technology, Inc. (AIW) and the "National Design Specification for Wood Construction" published by the American Institute of Wood Technology, Inc. (AIW). Calculations and shop drawings bearing the seal and signature of the design engineer shall be reviewed and approved by the Structural Engineer. Shop drawings shall show location of all trusses, connection plates capacity, and the size and grade of lumber used. Truss members shall be fully braced and bearing blocks shall be provided for stability, and bearing blocks if needed. Truss splices shall provide all hangers and connectors needed. Trusses shall be installed in accordance with the manufacturer's instructions and weights with OWS.
- Drawing Coordination:
  - The Architect and the Structural Engineer shall be notified with any changes to the drawings. Any changes to the drawings shall be brought to the Architect's attention.
  - DRAWINGS SHALL NOT BE SCALED. Written dimensions shall take precedence over any dimensions shown on drawings.
  - Shop drawings shall be prepared and drawn by the fabricator. Copying these drawings for shop drawing use will not be allowed.
  - Any and all material substitutions shall be approved by the Structural Engineer prior to construction.



### DRAWING INDEX

REVISIONS	DATE	BY	CHKD	APP'D
1	02/23/2011	MM	MM	MM
2	02/23/2011	MM	MM	MM
3	02/23/2011	MM	MM	MM
4	02/23/2011	MM	MM	MM
5	02/23/2011	MM	MM	MM
6	02/23/2011	MM	MM	MM
7	02/23/2011	MM	MM	MM
8	02/23/2011	MM	MM	MM
9	02/23/2011	MM	MM	MM
10	02/23/2011	MM	MM	MM

### DRAWING INDEX

NUMBER	DRAWING TITLE	DATE
H-01	HOT WATER SUPPLY AND RETURN PIPING	02/23/2011
H-02	CHILLED WATER SUPPLY AND RETURN PIPING	02/23/2011
H-03	UNION FLANGE BLIND FLANGE	02/23/2011
H-04	SOX GATE VALVE BALL VALVE GLOBE VALVE BUTTERFLY VALVE	02/23/2011
H-05	CHECK VALVE STRAINER	02/23/2011
H-06	LUBRICATED PLUG VALVE BALANCING VALVE	02/23/2011
H-07	PIPE ELBOW DOWN PIPE TEE DOWN PIPE TEE UP PIPE ELBOW UP	02/23/2011
H-08	PIPE ANCHOR PIPE GUIDE PIPE SLEEVE	02/23/2011
H-09	FLEX CONNECTION PIPE EXPANSION JOINT	02/23/2011
H-10	SQUARE DUCT ELBOW WITH TURNING VANES	02/23/2011
H-11	DOWN AND BACK UP UNDER BEAM OR OBSTACLE	02/23/2011
H-12	SUPPLY AIR RETURN/OUTSIDE AIR AND EXHAUST AIR	02/23/2011
H-13	DUCTWORK UNLINED AND DUCTWORK LINED	02/23/2011
H-14	FLEXIBLE AND RIGID ROUND DUCT	02/23/2011
H-15	DUCTWORK TO BE REMOVED	02/23/2011
H-16	FIRE SMOKE COMBINATION FIRE AND SMOKE RADIATION SMOKE AND RADIATION DAMPERS	02/23/2011
H-17	BAROMETRIC MOTORIZED AND MANUAL DAMPERS SMOKE DETECTOR PRESSURE DIFFERENTIAL SWITCH	02/23/2011
H-18	THERMOSTAT HUMIDISTAT TEMPERATURE TRANSMITTER CARBON MONOXIDE OR CARBON DIOXIDE SENSOR	02/23/2011
H-19	WORK NOTE 1, REVISION NO. 1, DEPOLITON NOTE 1, POINT OF CONNECTION	02/23/2011
H-20	SUPPLY AIR RETURN AIR EXHAUST AIR FLOW ARROWS	02/23/2011
H-21	SUPPLY AIR RETURN AIR EXHAUST AIR OUTSIDE AIR	02/23/2011
H-22	SECTION A ON SHEET M-1	02/23/2011
H-23	DIAGRAM 1 ON SHEET M-1	02/23/2011
H-24	RISER R-1 ON SHEET M-1	02/23/2011
H-25	EQUIPMENT TAG	02/23/2011

### DUCT SYSTEM NOTES

- ALL DUCTWORK UNLESS SPECIFICALLY INDICATED SHALL BE GALVANIZED SHEET METAL INSTALLED IN ACCORDANCE WITH THE SHADMA DUCT CONSTRUCTION STANDARDS - SEAL CLASS B. PRESURE CLASS 12" SEAL CLASS B. DIMENSIONS SHOWN ARE NET CLEAR INSIDE DIMENSIONS. ALLOWANCES MUST BE MADE FOR DUCT L INER WHERE CALLED FOR.
- ALL SUPPLY DUCTWORK SHALL HAVE ALL JOINTS SEALED WITH "HARDCAST" OR EQUAL DUCT SEALER/MASTIC.
- ALL CONCEALED ROUND SUPPLY AIR DUCTS 12" AND SMALLER SHALL BE GALVANIZED SHEET METAL SNAP-LOCK, ROUND SUPPLY DUCT GREATER THAN 12" SHALL BE GALVANIZED SHEET METAL SPIRAL, PROVIDE 1" FIBERGLASS INSULATION UNRAIP. INSULATED FLEXIBLE DUCT MAY BE USED FOR THE CONNECTION TO THE AIR OUTLET PROVIDED THE LENGTH OF THE FLEXIBLE DUCT DOES NOT EXCEED 6' LINEAR FEET.
- FACTORY MADE AIR DUCTS SHALL CONFORM TO UL 181 AND INCLUDE APPROPRIATE LABEL. FLEXIBLE DUCTWORK SHALL BE APPROVED CLASS 0 OR CLASS 1, LENGTH NOT TO EXCEED 6'-0".
- ALL BRANCH DUCT CONNECTIONS TO AIR OUTLETS AND AIR INLETS SHALL BE THE SAME SIZE AS THE DEVICE NECK UNLESS SHOWN OTHERWISE ON THE DRAWINGS.
- ALL ENVIRONMENTAL AIR EXHAUST DUCTS SHALL BE SEALED WITH "HARDCAST" OR EQUAL.
- DUCT HANGERS SHALL BE A MINIMUM 1/2" X 26 GAUGE GALVANIZED STEEL.
- PROVIDE SINGLE THICKNESS TURNING VANES IN ALL SQUARE AND RECTANGULAR ELBOWS IN SUPPLY, RETURN SYSTEMS.
- ALL FIRE DAMPERS SHALL BE LABELED FOR USE IN DYNAMIC SYSTEMS UNLESS OTHERWISE SPECIFIED.

### GENERAL NOTES - HVAC

- RESOLVE ALL QUESTIONS OR CONFLICTS WITH ENGINEERS BEFORE ANY EQUIPMENT IS ORDERED, MATERIALS FABRICATED OR SYSTEMS INSTALLED.
- COORDINATE THE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES ESPECIALLY STRUCTURAL, PLUMBING, ELECTRICAL AND ARCHITECTURAL CEILING HEIGHTS.
- COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS WITH THE GENERAL CONTRACTOR.
- COORDINATE AND VERIFY THAT ALL OPENINGS IN WALLS ABOVE CEILING / DOOR LOUVERS / DOOR UNDERCUTS ARE PROVIDED AS INDICATED ON THESE DRAWINGS.
- LEVEL ALL EQUIPMENT CURBS / BASES PRIOR TO INSTALLATION OF ANY EQUIPMENT. INSTALL FULL SIZE CONDENSATE DRAIN WITH TRAP SEAL ABOVE THE EQUIPMENT CURB. PROVIDE SUFFICIENT PRESSURE FOR EACH COOLING COIL. ENSURE THAT THE TOP OF GROUND MOUNTED EQUIPMENT FADS ARE AT LEAST 3" ABOVE FINAL GRADE.
- PROVIDE OFFSETS AS NECESSARY TO ACCOMMODATE STRUCTURE AND OTHER TRADES.
- SEAL ALL ROOF PENETRATIONS WATER TIGHT WITH SEALANT/CALKING OR SYSTEM COMPATIBLE WITH ROOFING.
- ALL PIPING PENETRATIONS THROUGH FLOORS SHALL BE SEALED WATER TIGHT BY GROUTING FEMTER GAP BETWEEN PIPE AND FLOOR APPROVED SEALANT.
- MATERIALS EXPOSED IN PLUMBING SHALL HAVE A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED RATING OF NOT MORE THAN 100.
- BIRD SCREEN UNLESS OTHERWISE SPECIFIED SHALL BE 1/4" STEEL MESH.
- INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE 2005 INTERNATIONAL MECHANICAL CODE APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE AND APPLICABLE SECTIONS OF THE PUEBLO BUILDING CODE.

### CONDENSING UNIT AND DX COOLING COIL SCHEDULE

NOTES: 1) PROVIDE REFRIGERATION PIPING ACCORDING TO MANUFACTURERS RECOMMENDATIONS. 2) SCROLL COMPRESSOR. 3) 1/8" BEER. 4) R-410A REFRIGERANT. 5) CURVED LOUVER PANELS. 6) LIQUID LINE 1/2". SUCTION LINE 3/4".

TAG	MANUFACTURER	CU MODEL	NOMINAL TONS	ELECTRICAL VOLTS/PH	MCA	MOP	WEIGHT (LBS)	SERVES	NOTES
CU-01	CARRIER	24ANB630A0003	15	230/1	11.1	20	84	FC-01, 04	1, 2, 3, 4, 5, 6, 7
CU-02	CARRIER	24ANB634A0003	2.0	230/1	11.5	25	196	FC-02, 05	1, 2, 3, 4, 5, 6, 7
CU-03	CARRIER	24ANB630A0003	2.5	230/1	18	25	193	FC-03, 06	1, 2, 3, 4, 5, 6, 7

### EXHAUST FAN SCHEDULE

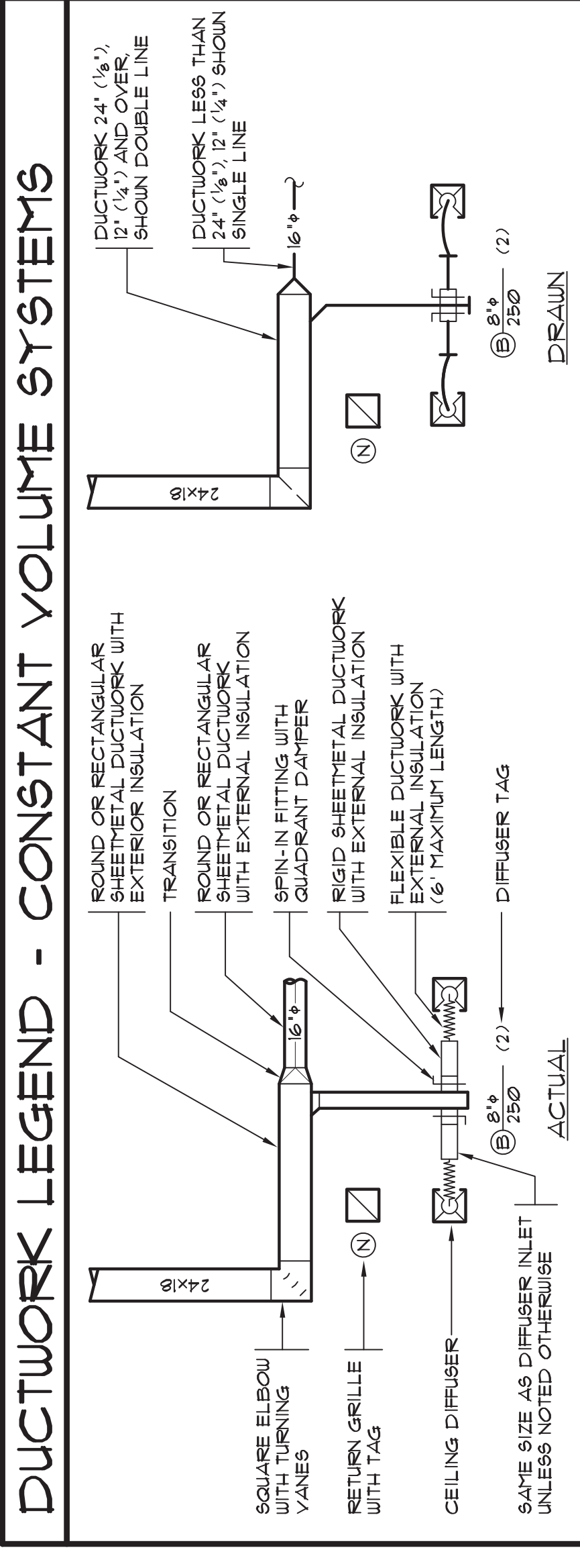
NOTES: 1) INCLUDES WHITE PLASTIC GRILLE. 2) MEETS ENERGY STAR RATINGS AND ASHRAE STD 62.2. 3) BACKDRAFT DAMPER. 4) INCLUDE MULTI-SPEED MODULE. 5) SWITCH WITH LIGHT SWITCH. 6) CONTINUOUS VENTILATION.

TAG	MANUF.	MODEL	CFM	ESP INCH WC	TYPE	DRIVE	BORES	WATTS	VOLTS/PH	NOTES
EF-01	PANASONIC	FV-05-TV1K1	30/80	0.4/0	CEILING	DIRECT	5	25	120/1	1, 2, 3, 4, 5, 6

### RANGE HOOD SCHEDULE

NOTES: 1) INCLUDE BACKDRAFT DAMPER. 2) 30" WIDTH. 3) 75 WATT LIGHT. 4) 2-SPEED. 5) OWNER TO CHOOSE COLOR.

TAG	MANUFACTURER	MODEL	TYPE	CFM	BORES	VOLTS/PH	MCA	NOTES
RH-01	BROAN	413000	TVA VENTED	190	60	120/1	2.9	1, 2, 3, 4, 5



### LEGEND (NOT ALL ITEMS WILL BE USED)

SYMBOL	DESCRIPTION
HUB	HOT WATER SUPPLY AND RETURN PIPING
CHUB	CHILLED WATER SUPPLY AND RETURN PIPING
CHS, CHR	UNION FLANGE BLIND FLANGE
N	SOX GATE VALVE BALL VALVE GLOBE VALVE BUTTERFLY VALVE
W	CHECK VALVE STRAINER
L	LUBRICATED PLUG VALVE BALANCING VALVE
G	PIPE ELBOW DOWN PIPE TEE DOWN PIPE TEE UP PIPE ELBOW UP
A	PIPE ANCHOR PIPE GUIDE PIPE SLEEVE
W	FLEX CONNECTION PIPE EXPANSION JOINT
S	SQUARE DUCT ELBOW WITH TURNING VANES
D	DOWN AND BACK UP UNDER BEAM OR OBSTACLE
U	SUPPLY AIR RETURN/OUTSIDE AIR AND EXHAUST AIR
L	DUCTWORK UNLINED AND DUCTWORK LINED
F	FLEXIBLE AND RIGID ROUND DUCT
R	DUCTWORK TO BE REMOVED
F, S, R	FIRE SMOKE COMBINATION FIRE AND SMOKE RADIATION SMOKE AND RADIATION DAMPERS
B, M	BAROMETRIC MOTORIZED AND MANUAL DAMPERS SMOKE DETECTOR PRESSURE DIFFERENTIAL SWITCH
T, H, TT, CO, C2	THERMOSTAT HUMIDISTAT TEMPERATURE TRANSMITTER CARBON MONOXIDE OR CARBON DIOXIDE SENSOR
W, N, 1, 2	WORK NOTE 1, REVISION NO. 1, DEPOLITON NOTE 1, POINT OF CONNECTION
S, SA, EA, OA	SUPPLY AIR RETURN AIR EXHAUST AIR FLOW ARROWS
S, SA, EA, OA	SUPPLY AIR RETURN AIR EXHAUST AIR OUTSIDE AIR
A, R, 1	SECTION A ON SHEET M-1
D, 1, R, 1	DIAGRAM 1 ON SHEET M-1
R, 1, R, 1	RISER R-1 ON SHEET M-1
E, 1	EQUIPMENT TAG

### FAN COIL SCHEDULE

NOTES: 1) UPFLOW CONFIGURATION. 2) DOWN FLOW CONFIGURATION. 3) DISPOSABLE FILTER. 4) 1/2" MOTOR ON BLOWER. 5) MICRO-PROCESSOR CIRCUIT BOARD. 6) FACTORY THURNTON AIR CONDITIONING COILS. 7) EXPANSION VALVE AND BEARING UNIT. 8) HVAC CONTRACTOR TO PROVIDE THE FOLLOWING: 9) PROGRAMMABLE THERMOSTAT. 10) PIPING TO MAKE EXHAUST PIPING CONDENSATE PIPING. 11) PIPING TO MAKE EXHAUST PIPING CONDENSATE PIPING. 12) REARRANGEMENT OF DX COIL REQUIRED. 13) INTEGRAL PUMP OPERATES FOR 60 SECONDS EVERY 6 HOURS.

TAG	MANUF.	MODEL	CFM	ESP INCH WC	HYDRONIC HEAT COIL MBH/OUT	BLOWER HP	INLET WATER HP	MCA	VOLTS/PH	MAX RISE	WEIGHT LBS	NOTES	
FC-01	AIR-MARK	GR1 18/15	650	0.3	30.5	1/2	1/40	14.0	4.1	15/1	15	100	13,4,5,6,7,8,9,10,11
FC-02	AIR-MARK	GR1 24/25	800	0.3	35.3	1/2	1/40	14.0	4.1	15/1	15	100	13,4,5,6,7,8,9,10,11
FC-03	AIR-MARK	GR1 30/31	1050	0.3	39.1	1/2	1/40	14.0	7.4	15/1	20	120	13,4,5,6,7,8,9,10,11
FC-04	AIR-MARK	GR1 18/15	650	0.3	30.5	1/2	1/40	14.0	4.1	15/1	15	100	2,3,4,5,6,7,8,9,10,11,12
FC-05	AIR-MARK	GR1 24/25	800	0.3	35.3	1/2	1/40	14.0	4.1	15/1	15	100	2,3,4,5,6,7,8,9,10,11,12
FC-06	AIR-MARK	GR1 30/31	1050	0.3	39.1	1/2	1/40	14.0	7.4	15/1	20	120	2,3,4,5,6,7,8,9,10,11,12

### ELECTRIC HEATER SCHEDULE

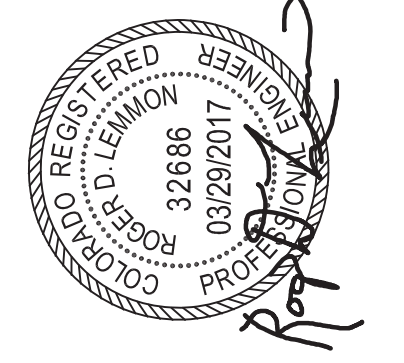
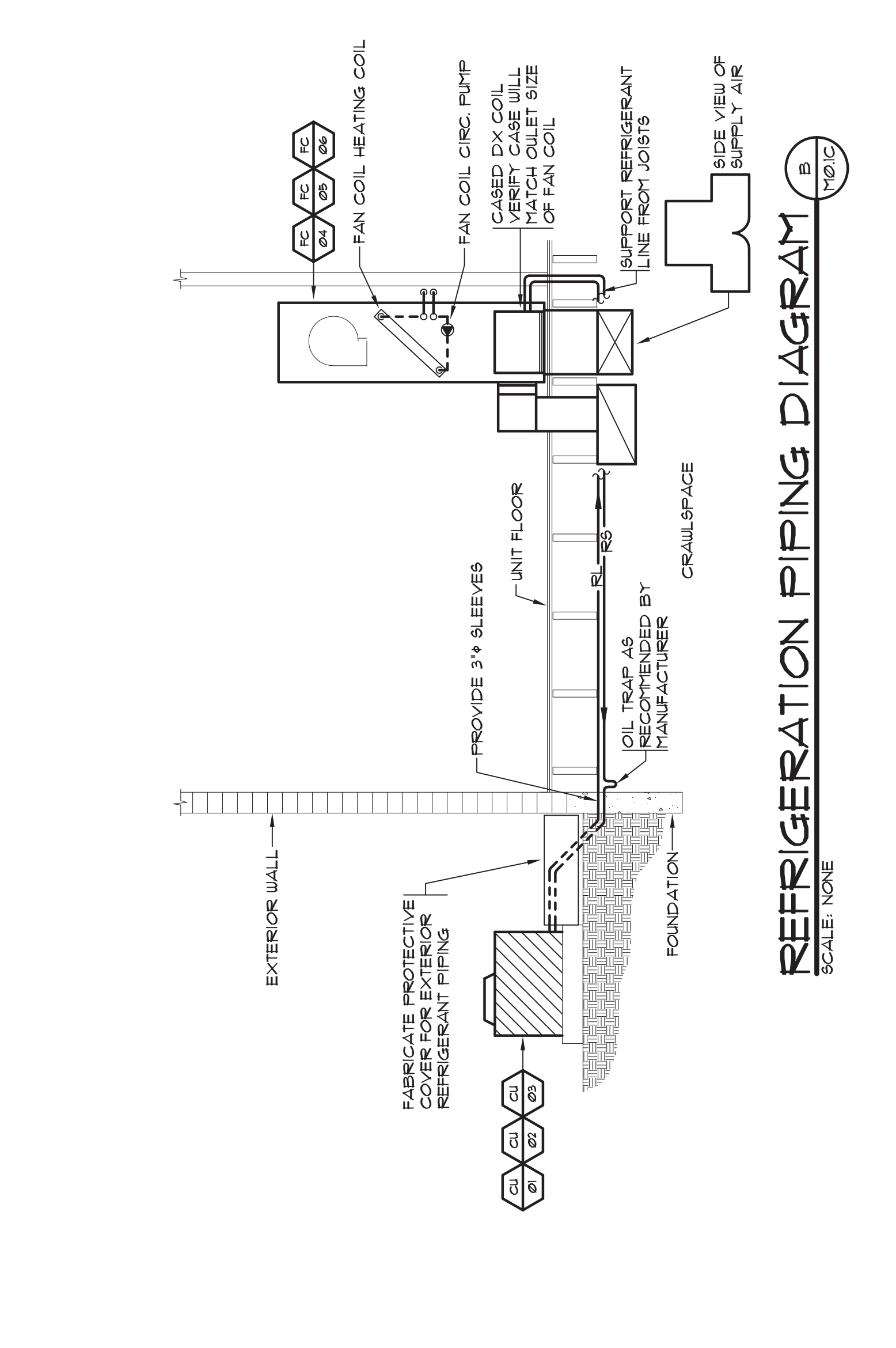
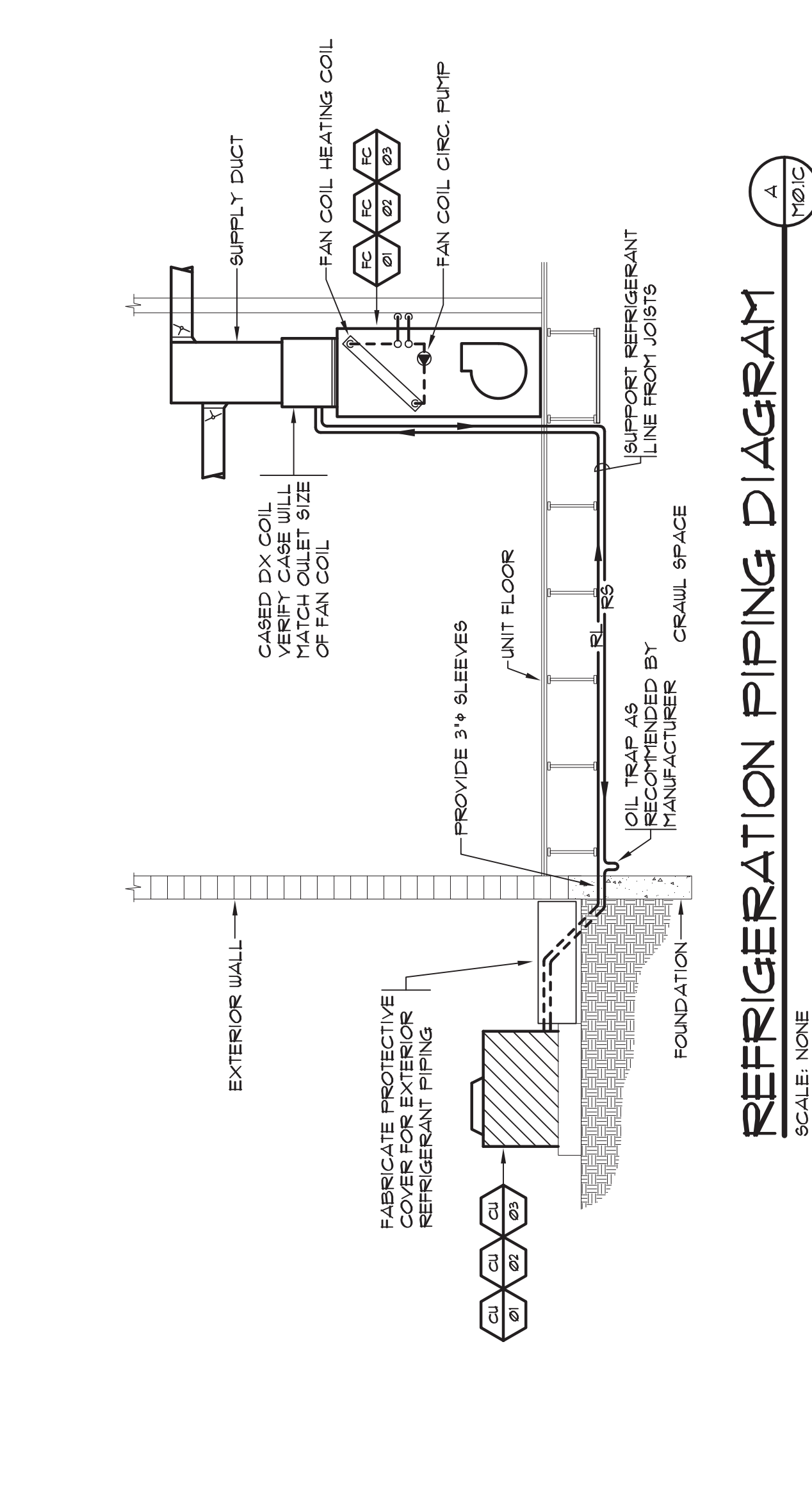
NOTES: 1) INTEGRAL THERMOSTAT. 2) 80%HI-RECEIVED MOUNT. 3) DISCONNECT SWITCH. 4) MOUNT 12" AFF. 5) HEAVY DUTY GRILLE.

TAG	MANUFACTURER	MODEL	KW	BTU	VOLTS/PH	NOTES
EH-01	RATWALL	E3321D-RP	15	5100	120/1	1, 2, 3, 4

### GRILLE, REGISTER, AND DIFFUSER SCHEDULE

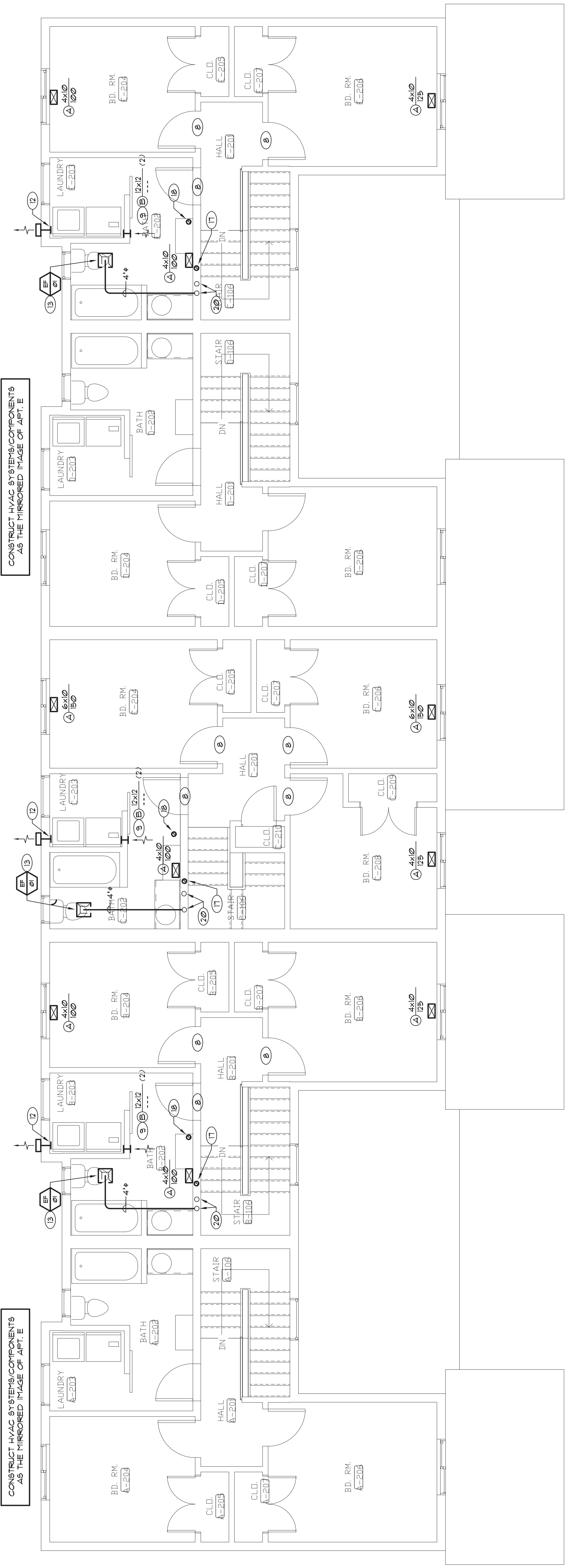
NOTES: 1) STANDARD FACTORY BROUW FINISH. 2) VOLUME DAMPER. 3) SEE DRAWINGS FOR NECK SIZE AND AIR QUANTITY.

TAG	MANUF.	MODEL	DESCRIPTION	NOTES
A	HART & COOLEY	4120/41	SUPPLY DIFFUSER, 2-WAY DEFLECTION, STEEL CONSTRUCTION, FLOOR MOUNT	1, 2, 3
B	HART & COOLEY	650	RETURN GRILLE, 35° DEFLECTION, 1/2" SPACING, STEEL CONSTRUCTION, SIDEWALL MOUNT	1, 3

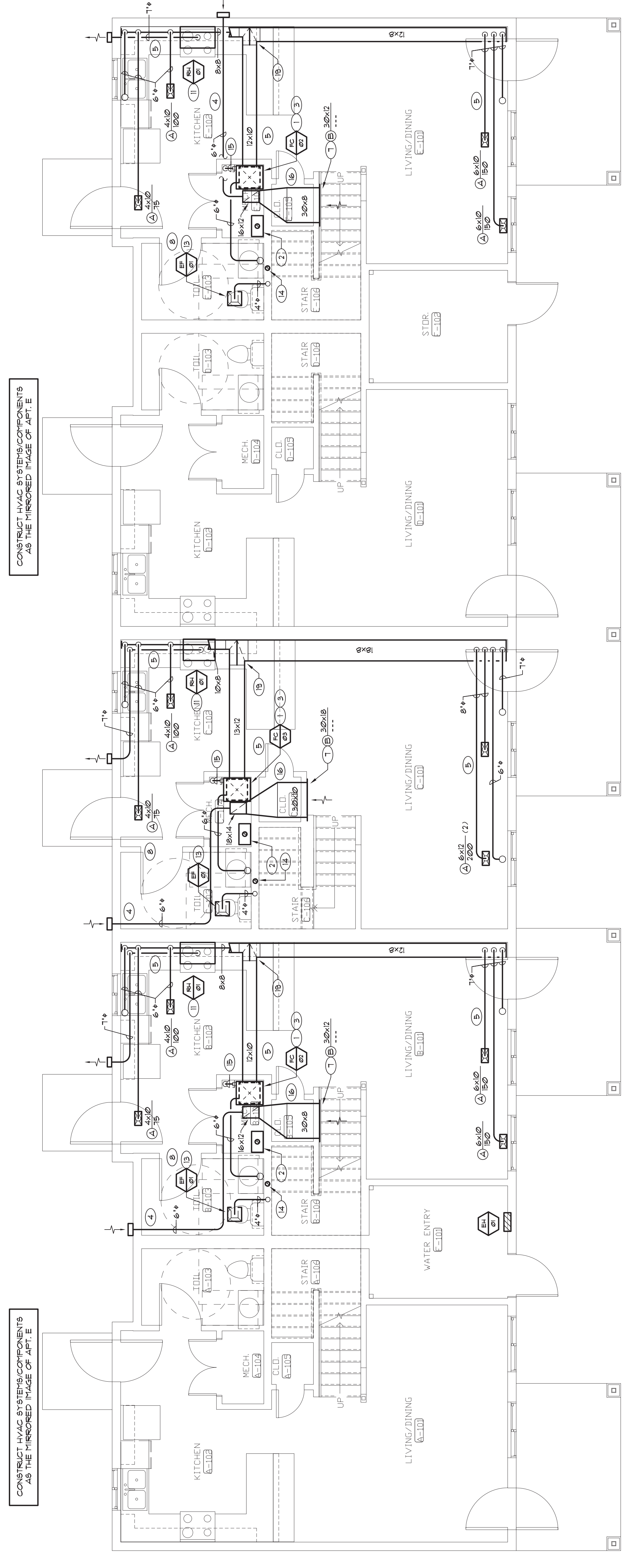




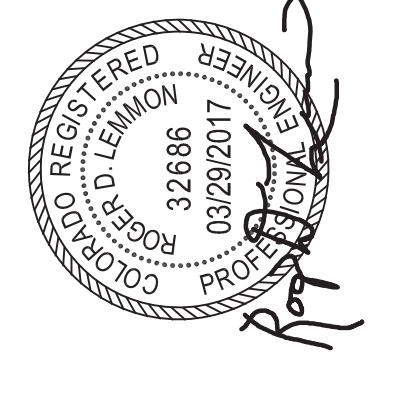
- WORK NOTES (THIS SHEET ONLY)**
- FAN COIL UNIT TO BE SUPPLIED BY MECHANICAL (HVAC) CONTRACTOR. COORDINATE WITH PLUMBING CONTRACTOR FOR PIPING CONNECTIONS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
  - TANKLESS WATER HEATER TO BE VENTED THROUGH THE ROOF BY PLUMBING CONTRACTOR USING CONCENTRIC VENTING SYSTEM. COORDINATE WITH MECHANICAL CONTRACTOR AND PLUMBING CONTRACTOR FOR PIPING CONNECTIONS AND PIPING DRAWINGS FOR WATER HEATER CONNECTION REQUIREMENTS TO TANKLESS WATER HEATER. TERMINATE WITH A WEATHER CAP. THIS MUST BE 10 FEET AWAY FROM ANY EXHAUST.
  - ALL SA AND RA DUCTWORK TO BE ROUTED HIGH BETWEEN JOISTS WHERE POSSIBLE.
  - NOT USED.
  - POINT RA GRILLE HIGH IN WALL.
  - UNDERCUT DOOR BY APPROXIMATELY 1".
  - 12x20 TRANSFER AIR DUCT FOR DRYER. LOCATE HIGH IN WALL.
  - NOT USED.
  - INSTALL RAINSE WOOD WITH DUCT TERMINATING HIGH ON OUTSIDE WALL WITH WEATHER CAP.
  - RUN DRYER 4" VENT THROUGH THE WALL. TERMINATE WITH DRYER VENT CAP.
  - INSTALL ALL LEGS AND COMPONENTS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. COORDINATE WITH ELECTRICAL CONTRACTOR FOR WALL SWITCH. RUNS CONTINUOUSLY ON LOW BUT WILL INCREASE TO HIGH WITH SWITCH.
  - INSTALL A 4" ROUND DUCT FROM THE CRAWL SPACE TO THE ROOF.
  - DROP A 4" DUCT INTO THE CRAWL SPACE FOR APPROXIMATELY 30" C/P.
  - RUN RA DUCT UP AGAINST STRUCTURE THEN FLAIR TO FIT RA GRILLE.
  - 4" DUCT FROM BELOW TO ROOF. TERMINATE WITH A ROOF CAP.
  - T1 CONCENTRIC VENT FROM TANKLESS WATER HEATER TO ROOF. TERMINATE FLUE WITH (UBBINK VENT, PART NO. 184167P). RUN VENT THROUGH CABINET.
  - RUN DUCTWORK IN JOIST SPACE THEN DROP DOWN TO RUN IN 8"OFFIT.
  - RUN 4" EA DUCT UP THROUGH ROOF. TERMINATE WITH A ROOF CAP.
  - SET THE CONDENSING UNIT ON A 3" LEVEL EQUIPMENT PAD.
  - PROVIDE LINE LISTS, 8" PIPES PER MANUFACTURER'S RECOMMENDATIONS. COVER BOTH LIQUID AND SUCTING LINES WITH CLOSED CELL INSULATION THEN WRAP WITH WATER PROOF COVER WHERE LINES ARE BURIED. SLEEVE APPROXIMATELY 8" BELOW GRADE WITH 1/2" DIA. RIGID PIPES.



2nd FLOOR - BLDG C - HVAC  
 SCALE: 1/4" = 1'-0"



1st FLOOR - BLDG C - HVAC  
 SCALE: 1/4" = 1'-0"





**DRAWING INDEX**

NO.	DESCRIPTION	DATE
1	ISSUED FOR CONSTRUCTION	02/23/2011
2	ISSUED FOR REFERENCE ONLY, NOT FOR CONSTRUCTION	

NUMBER	DRAWING TITLE	DATE
P01C	DRAWING INDEX, GENERAL NOTES AND LEGENDS	02/23/2011
P10	SCHEDULES AND DIAGRAMS	02/23/2011
P11	CRAWL SPACE FLOOR - PLUMBING	02/23/2011
P12	FIRST AND SECOND FLOORS - BUILDING C - PLUMBING	02/23/2011

**GENERAL NOTES - PLUMBING**

- COORDINATE THE INSTALLATION OF PLUMBING SYSTEMS WITH OTHER TRADES. OFFSET PIPING AS NECESSARY TO AVOID CONFLICTS WITH OTHER WORK AND STRUCTURAL ABOVE CEILING AND/OR BELOW FLOOR.
- VERIFY EXACT LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES AT SITE PRIOR TO INSTALLATION OF ANY PIPING SYSTEMS.
- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATION OF THE PLUMBING FIXTURES.
- SEAL ROOF PENETRATIONS WATERTIGHT WITH ROOF SYSTEM COMPATIBLE WITH ROOFING.
- ALL PIPING PENETRATIONS THROUGH FLOORS SHALL BE SEALED WATER TIGHT BY GROUTING PERIMETER GAP BETWEEN PIPE AND FLOOR STRUCTURE, OR BY USING APPROVED UL SLEEVE AND SEALER SYSTEM. PENETRATIONS OF RATED WALLS SHALL USE SLEEVE WITH UL APPROVED FIRE SEALANT.
- DOMESTIC WATER PIPING LOCATED IN CRAWL SPACE OF BUILDINGS SHALL BE TYPE "L" HARD COPPER WITH WROUGHT COPPER FITTINGS. NO LEAD SOLDER OR "PROPRESS" TO BE USED FOR FITTINGS THROUGHOUT.
- PIPING WITHIN UNIT CONNECTING FIXTURES FROM POINT IN MECHANICAL CLOSETS INDICATED ON PLANS SHALL BE CROSS LINKED PEX PIPING WITH SPECIFIC MANUFACTURER FITTINGS.
- INSULATE ALL DOMESTIC WATER PIPING PER INSULATION SCHEDULES SHOWN IN PROJECT SPECIFICATIONS.
- WASTE AND VENT PIPING SHALL BE SCHEDULE 40S PVC DOW WITH 1/2" VENT CEMENTED FITTINGS. SLOPE ALL WASTE PIPING AT 1/4" PER FOOT MINIMUM UNLESS OTHERWISE NOTED. PVC PIPING SHALL NOT BE USED IN RETURN AIR PLUMBING.
- MAINTAIN THE UNIFORM SLOPE SHOWN ON THE PLANS FOR THE SANITARY SEWER, STORM DRAIN AND CONDENSATE DRAIN PIPING SYSTEMS.
- SUPPORT ALL CAST IRON SOIL PIPE, PVC PIPING, COPPER PIPE AND STEEL PIPE RISERS AT EVERY STORY MINIMUM.
- ALL SANITARY VENTS SHALL BE LOCATED MINIMUM 10'-0" FROM BUILDING OUTSIDE AIR INTAKES.
- INSTALLATION SHALL CONFORM TO 2010 INTERNATIONAL PLUMBING CODE, APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE AND APPLICABLE SECTIONS OF THE PUEBLO BUILDING CODE.

**FIRE PROTECTION NOTES**

- PROVIDE A NEW HYDRANTICALLY CALCULATED FIRE SPRINKLER SYSTEM IN ACCORDANCE WITH THE LATEST EDITIONS OF USC, UFC, AND NFPA 13. COVERAGE WILL INCLUDE LIVING SPACES, MECHANICAL SPACES AND ATTIC SPACES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN OF THE SYSTEM AND SHALL FURNISH TO THE ARCHITECT ALL DESIGN CALCULATIONS, HYDRANT TEST REPORTS, THE SYSTEM AND CATALOG DATA OF ALL EQUIPMENT AS PART OF REQUIRED SUBMITTAL DATA IN SPECIFICATIONS. REFER TO SHEETS P3 AND P4.
- SHOP DRAWINGS SHALL INDICATE THE LOCATION OF ALL SPRINKLER HEADS AND PIPING COORDINATED WITH THE LOCATION OF ALL STRUCTURAL MEMBERS, HVAC EQUIPMENT, LIGHT FIXTURES, CEILING DIFFUSERS, REGISTERS AND PIPING.
- THE LAYOUT, SPECIFICATION AND INSTALLATION OF FIRE PROTECTION SYSTEMS IS A TRADE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, CONSTRUCTION AND MAINTENANCE OF THE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF THE PROJECT'S FIRE PROTECTION CONTRACTOR THAT BE REQUIRED TO SHOW TO THE SATISFACTION OF THE ARCHITECT, SUCH SKILL, EXPERIENCE AND RESPONSIBILITY.
- PERFORM WORK IN STRICT COMPLIANCE WITH THESE SPECIFICATIONS AND DRAWINGS. THE REQUIREMENTS OF THE STATE CERTIFIED SUPPRESSION INSPECTOR AND ALL APPLICABLE CODES, ORDINANCES, STANDARDS, AND STATUTES IN EFFECT AT THE BUILDING SITE.
- ADHERE TO THE MOST RECENT EDITION OF THE FOLLOWING PUBLICATIONS, TOGETHER WITH THE LATEST REVISIONS, SUPPLEMENTS AND AMENDMENTS THERETO:
  - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARD 13.
  - INTERNATIONAL FIREMARTING ASSOCIATION (IFMA) STANDARD 100.
  - CITY OF PUEBLO FIRE AUTHORITY.
- OBTAIN AND PAY FOR ALL NECESSARY PERMITS PRIORS TO STARTING WORK. OBTAIN CERTIFICATES, APPROVALS, AND/OR ACCEPTANCES OF ALL INTERESTED PARTIES AND AUTHORITIES HAVING JURISDICTION.
- PIPING TO BE IRON, STEEL OR COPPER SHALL BE APPROVED BY NFPA 13 FOR USE IN FIRE PROTECTION SYSTEMS. FITTINGS SHALL BE APPROVED FOR USE WITH THE INSTALLED SPRINKLER PIPING WITH A MINIMUM WORKING PRESSURE OF 175 PSI.
- NOTIFY OWNER, ARCHITECT AND ALL AUTHORITIES HAVING JURISDICTION (INCLUDING BUT NOT LIMITED TO) PRIOR TO ANY TESTING. TESTING SHALL BE COMPLETED PRIOR TO ANY FINISHING WORK. TESTING SHALL BE COMPLETED IN ACCORDANCE WITH NFPA STANDARDS AND ALL APPLICABLE CODES AND ORDINANCES. PROVIDE ALL NECESSARY PERSONNEL, CORRECT ALL DEFECTS, DEFICIENCIES, REPAIR ALL LEAKS AND RE-TEST AS REQUIRED.

**LEGEND** (NOT ALL ITEMS WILL BE USED)

ABBREV	SYMBOL	DESCRIPTION
BU, CU, NP	—SU—	SOFT, COLD AND NON-POTABLE WATER PIPING
F	—F—	FIRE PROTECTION PIPING
HU, HUC	—(140°F)—	HOT WATER AND HOT WATER CIRCULATING PIPING
G	—G (5 PSIG)—	PRESSURE GAS PIPING
V, FOV	—V—	VENT AND FUEL OIL VENT PIPING
SS, GSS	—SS—	SANITARY SEWER AND GREASE SANITARY SEWER PIPING
SD, OSD	—SD—	STORM DRAIN AND OVERFLOW STORM DRAIN PIPING
RD, ORD	—RD—	ROOF DRAIN LEADER, OVERFLOW DRAIN LEADER
FCO, WCO, COTG	—FCO—	FLOOR CLEANOUT, WALL CLEANOUT AND CLEANOUT TO GRADE PIPING TO BE REMOVED
	—UN—	UNION FLANGE BLIND FLANGE
	—G—	SOV/GATE VALVE BALL VALVE, GLOBE VALVE, BUTTERFLY VALVE
	—N—	CHECK VALVE, STRAINER
	—C—	PLUG VALVE, CALIBRATED AND DYNAMIC BALANCING VALVES
	—P—	LUBRICATED PLUG VALVE
	—R—	PRESSURE REDUCING VALVE
	—T—	THREE WAY CONTROL VALVE SOLENOID AND TWO-WAY / MOTORISED CONTROL VALVE
	—B—	REDUCED PRESSURE BACKFLOW PREVENTER
	—A—	ANGLE RELIEF VALVE GAUGE AND COOK THERMOMETER
	—T—	TEST PLUG
AAV, MAV, HEV	—AAV, MAV—	HOSE END DRAIN VALVE, AUTOMATIC AIR / MANUAL AIR VENT
HB, LH	—HB, LH—	HOSEBIBB, FROSTPROOF WALL HYDRANT, DOWN SPOUT NOZZLE
	—E—	PIPE ELBOW, DOWN PIPE TEE, DOWN PIPE TEE UP, PIPE ELBOW UP
	—X—	PIPE ANCHOR, PIPE GUIDE, PIPE SLEEVE
	—E—	FLEX CONNECTION, PIPE EXPANSION JOINT
VTR	—VTR—	VENT THRU ROOF
I.E.	—I.E.—	INVERT ELEVATION
E, R, N	—E, R, N—	EXISTING, RELOCATED AND NEW
	—W—	WORK NOTE (REVISION NO. 1, DEMOLITION NOTE 1, POINT OF CONNECTION)
	—S—	SECTION A ON SHEET H-1 DIAGRAM 1 ON SHEET H-1 RISER R-1 ON SHEET H-1
	—F—	FIXTURE/EQUIPMENT TYPE
	—N—	FIXTURE/EQUIPMENT NUMBER



### PLUMBING EQUIPMENT SCHEDULE

TAG	EQUIPMENT DESCRIPTION
PLUMBING	
FCO	FLOOR CLEAN OUT, 8" WITH FIGURE 4071 8" STANDARD FLOOR CLEANOUT WITH SCORATED BROAD NICKEL BRONZE TOP.
WCO	WALL CLEAN OUT, 8" WITH FIGURE 4132 WITH CLEANOUT TEE, BRONZE THREADED PLUG, STAINLESS STEEL WALL COVER AND CENTER SCREW.
CO	PLUG CLEAN OUT, END OF LINE OR TURN WITH CLEANOUT ADAPTER AND CLEANOUT PLUG WITH RAISED NUT.
DW-1	DISHWASHER, ADA ACCESSIBLE, GE BUILT-IN DISHWASHER MODEL NUMBER GDT6950JWW, 24" WHITE COLOR ENERGY STAR COMPLIANT, PROVIDE WITH DRAIN HOSE AND ELECTRICAL CONNECTION. WATER SUPPLY BY CONTRACTOR (ALTERNATE SUBSTITUTES TO BE APPROVED BY OWNER).
DW-2	DISHWASHER, GE BUILT-IN DISHWASHER MODEL NUMBER GDR322PZPQJWW, 24" WHITE COLOR ENERGY STAR COMPLIANT, PROVIDE WITH DRAIN HOSE AND ELECTRICAL CONNECTION. WATER SUPPLY BY CONTRACTOR (ALTERNATE SUBSTITUTES TO BE APPROVED BY OWNER).
FD-1	EQUIPMENT ROOM DRAIN, 8" WITH FIGURE 27105 WITH SEDIMENT BUCKET SQUARE NICKEL BRONZE 1/2" GRATE TOP, PROVIDE WITH TRAP SEAL.
FD-1	FLOOR SINK, 8" WITH FIGURE 3192 CAST IRON FLANGED RECEPTOR WITH ACID RESISTANT INTERIOR WITH SEDIMENT BUCKET, 1/2" NICKEL BRONZE GRATE, 1 1/2" TOP WITH DEEP SEAL TRAP (WATER ENTRY ROOMS), PROVIDE WITH TRAP SEAL.
FUH-1	WALL HYDRANT, WOODFORD MODEL 67, FREEZELESS WALL HYDRANT, AUTOMATIC DRAWING WITH VACUUM BREAKER 3/4" HOSE THREAD VACUUM BREAKER, 1" HOSE THREAD NOZZLE AND LOOSE TEE KEY.
FUH-2	WALL HYDRANT, WOODFORD MODEL 33, FREEZELESS WALL HYDRANT, AUTOMATIC DRAWING WITH VACUUM BREAKER 3/4" HOSE THREAD VACUUM BREAKER, 1" HOSE THREAD NOZZLE AND LOOSE TEE KEY.
PET-1	POTABLE EXPANSION TANK, AITROS, THER-X-TROL 87.12, 4.5 GALLON, ACCEPTANCE FACTOR: 4.4 GALLON TOTAL VOLUME, 90 PSIG MIN. AND 150 PSIG MAX. OPERATING PRESSURE, FDA APPROVED, OPERATING WEIGHT 19.9 LBS., 3/4" CU.
BA-1	SHOCK ABSORBER, 8" WITH FIGURE 5005, PROVIDE WITH ISOLATION VALVE.
WB-1	WALL BOX FOR WASHING MACHINE WATER/DRAIN CONNECTIONS, CAITEY MODEL 38939, 1" WITH WATTS 9" SINGLE LEVER SUPPLY VALVES, 2" DRAIN.
GD-1	FOOD WASTE DISPOSER, IN-SINK-ERATOR BADGER 5, CONTINUOUS FEED, GALVANIZED STEEL, 1/2 HP, 1/8" V.
WDP-1	WASHER SAFETY DRAIN PAN, CAMCO MODEL 20793, 30"X33", WHITE PLASTIC PAN 2 1/2" DEEP WITH 1" BOTTOM DRAIN CONNECTION, DRAIN CONNECTION IS FIELD CUT/INSTALLED.

### TANKLESS WATER HEATER SCHEDULE

NOTES: 1) CONDENSING, 2) PROVIDE WITH HEAT TRAP FITTINGS AND VALVES, 3) PROVIDE VENTING SYSTEM AND CONCENTRIC VENT ADAPTOR WITH TERMINATION, 4) PROVIDE PRIORITY DRAINAGE TO DOMESTIC HOT WATER SYSTEM.

TAG	MANUF.	MODEL	MIN/MAX IN/OUT INCH	EFFICIENCY	OUTLET TEMP °F	GPM @ 10°F RISE	ELECTRICAL VOLTS/PH	WEIGHT LBS	NOTES
WH-1	RINNAI	RUC801	8.2 / 10.2	96%	120	4.2	120/1	6	1, 2, 3, 4
WH-2	RINNAI	RUC301	8.2 / 10.2	96%	120	5.0	120/1	6	1, 2, 3, 4
WH-3	RINNAI	RUC81	8.2 / 10.2	96%	120	5.5	120/1	6	1, 2, 3, 4

### PLUMBING FIXTURE SCHEDULE

NOTES: 1) PROVIDE WITH 3/4" HOLE, 4" CENTER SET FAUCET FINCH, 2) PROVIDE WITH WATTS 985-B TEMPORARY VALVE SET 100°F, 3) PROFLO FIXTURES MAY BE SUBSTITUTED WITH OWNERS PERMISSION.

TAG	FIXTURE DESCRIPTION
WC-1	WATER CLOSET, ADA, MANSFIELD, 148-103, PRESSURE ASSISTED FLUSH TANK SIFON, JET ACTION, 16 GPF, WHITE, VITREOUS CHINA, ELONGATED BOWL, PROVIDE BEHNS 12007C OPEN FRONT SEAT / COVER AND SUPPLY WITH ANGLE STOP, 4" 85, 2" V, 1/2" CU, REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION, NOTE 3.
WC-2	WATER CLOSET, MANSFIELD, 147-103, PRESSURE ASSISTED FLUSH TANK SIFON, JET ACTION, 16 GPF, WHITE, VITREOUS CHINA, ELONGATED BOWL, PROVIDE BEHNS 12007C OPEN FRONT SEAT / COVER AND SUPPLY WITH ANGLE STOP, 4" 85, 2" V, 1/2" CU, REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION, NOTE 3.
LV-1	COUNTER TOP OVAL LAVATORY - MANSFIELD, 291-4, ROUND WHITE VITREOUS CHINA, 4" FAUCET CENTERS, PROVIDE MOEN SINGLE LEVER FAUCET, PROVIDE BEHNS 12007C OPEN FRONT SEAT / COVER AND SUPPLY WITH ANGLE STOP, 4" 85, 2" V, 1/2" CU, REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION, NOTE 3.
LV-2	COUNTER TOP OVAL LAVATORY - MANSFIELD, 290-4, ROUND WHITE VITREOUS CHINA, 4" FAUCET CENTERS, PROVIDE MOEN SINGLE LEVER FAUCET, PROVIDE BEHNS 12007C OPEN FRONT SEAT / COVER AND SUPPLY WITH ANGLE STOP, 4" 85, 2" V, 1/2" CU, REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION, NOTE 3.
SH-1	SHOWER UNIT ADA DOUBLE COMPARTMENT KITCHEN SINK-STERLING MIDDLETON 14633-3 20 GAUGE STAINLESS STEEL, PROVIDE MOEN TUB/SHOWER KIT, STERLING MODEL Y-60-H2, WHITE, VIKRELL 4 PIECE DESIGN, PROVIDE MOEN 8243 PRESSURE BALANCED SHOWER VALVE, TUB DIVERTER AND SHOWER HEAD HAND HELD SHOWER, 69" HOSE, 30" SLIDE BAR, VACUUM BREAKER, TUB FILLER, 2" TRIP LEVER GRID DRAIN/OVER FLOW, 2" 85, 2" V, 1/2" CU, 1/2" HUI, REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION, ADA INSTALLATION, NOTE 3.
SH-2	TUB/SHOWER KIT, STERLING MODEL Y-60-H2, WHITE, VIKRELL 4 PIECE DESIGN, PROVIDE MOEN 8243 PRESSURE BALANCED SHOWER VALVE, TUB DIVERTER AND SHOWER HEAD, 2" TRIP LEVER GRID DRAIN/OVER FLOW, 2" 85, 2" V, 1/2" CU, 1/2" HUI, REFER TO PLANS FOR RIGHT HAND/LEFT HAND CONFIGURATION, NOTE 3.

### FIRE PROTECTION EQUIPMENT SCHEDULE

TAG	FIXTURE DESCRIPTION
FDC-1	FIRE DEPT CONNECTION, CROCKER 1 1/2" X 1" CAST BRASS 3 WAY INLET BODY WITH DOUBLE CLAMPERS AND PIN LUG SUIVELS, PLUGS AUTO SPRINKLER BRANDING, THREADS TO MATCH PUEBLO FIRE DEPT. REQUIREMENTS.
DOV-1	DOUBLE CHECK VALVE ASSEMBLY, RECO MODEL 890 2", BRONZE BODY, UL LISTED, COME WITH BALL VALVES AND CHECK VALVE ASSEMBLY WITH FOUR VAPOR RESISTANT FULL PORT VALVE TESTGOGS, FACTORY TESTED, ASSEMBLED AND TESTED.

### PLUMBING EQUIPMENT SCHEDULE

NOTES: 1) CONDENSING, 2) PROVIDE WITH HEAT TRAP FITTINGS AND VALVES, 3) PROVIDE VENTING SYSTEM AND CONCENTRIC VENT ADAPTOR WITH TERMINATION, 4) PROVIDE PRIORITY DRAINAGE TO DOMESTIC HOT WATER SYSTEM.

TAG	MANUF.	MODEL	MIN/MAX IN/OUT INCH	EFFICIENCY	OUTLET TEMP °F	GPM @ 10°F RISE	ELECTRICAL VOLTS/PH	WEIGHT LBS	NOTES
WH-1	RINNAI	RUC801	8.2 / 10.2	96%	120	4.2	120/1	6	1, 2, 3, 4
WH-2	RINNAI	RUC301	8.2 / 10.2	96%	120	5.0	120/1	6	1, 2, 3, 4
WH-3	RINNAI	RUC81	8.2 / 10.2	96%	120	5.5	120/1	6	1, 2, 3, 4

### TANKLESS WATER HEATER SCHEDULE

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NOTES: 1) CONDENSING, 2) PROVIDE WITH HEAT TRAP FITTINGS AND VALVES, 3) PROVIDE VENTING SYSTEM AND CONCENTRIC VENT ADAPTOR WITH TERMINATION, 4) PROVIDE PRIORITY DRAINAGE TO DOMESTIC HOT WATER SYSTEM.

TAG	MANUF.	MODEL	MIN/MAX IN/OUT INCH	EFFICIENCY	OUTLET TEMP °F	GPM @ 10°F RISE	ELECTRICAL VOLTS/PH	WEIGHT LBS	NOTES
WH-1	RINNAI	RUC801	8.2 / 10.2	96%	120	4.2	120/1	6	1, 2, 3, 4
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### TANKLESS WATER HEATER SCHEDULE

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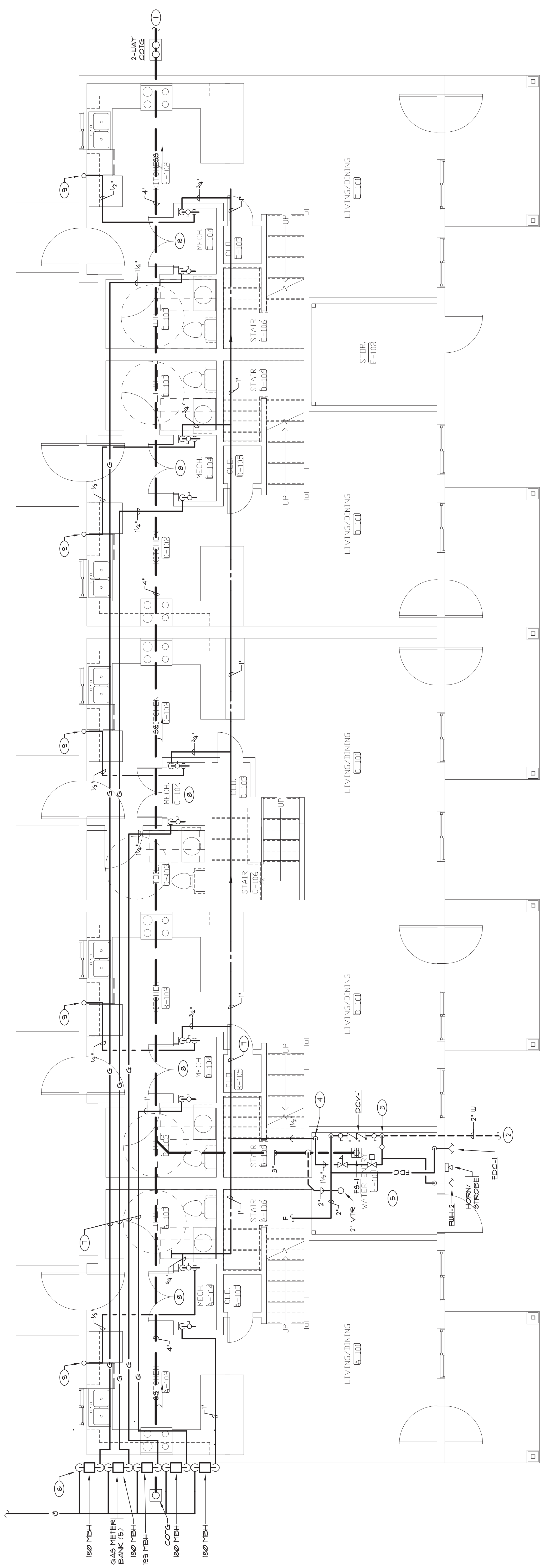
TAG	MANUF.	MODEL	MIN/MAX IN/OUT INCH	EFFICIENCY	OUTLET TEMP °F	GPM @ 10°F RISE	ELECTRICAL VOLTS/PH	WEIGHT LBS	NOTES
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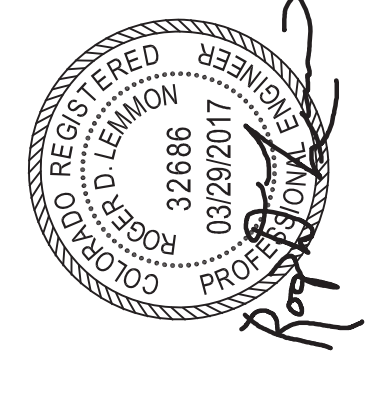
NOTES:



- WORK NOTES (THIS SHEET ONLY)**
- REFER TO CIVIL PLANS TO COORDINATE THE ACTUAL BUILDING TYPE AND SANITARY FLOOR DIRECTION MAY NOT BE SAME FOR EACH OF THIS BUILDING TYPE.
  - REFER TO CIVIL FOR CONTINUATION.
  - FIRE/DOMESTIC WATER ENTRIES WATER ENTRY ROOF FROTH BELOW GRADE.
  - DOMESTIC WATER SERVICE DOWN AND INTO CRAWL SPACE. WATER PIPING IN CRAWL SPACE TO BE TYPE "L" COPPER.
  - WATER AND FIRE RISERS LOCATED IN WATER ENTRY ROOM. SEE RISER DIAGRAMS ON SHEET P02.C.
  - INDIVIDUAL GAS METERS FOR EACH UNIT. SERVICE TO METERS BY UTILITY CONTRACTOR.
  - GAS AND WATER BRINGS IN CRAWL SPACE. COORDINATE WITH TRAC SUBCONTRACTOR.
  - GAS AND WATER TO STUB UP INTO UNIT MECHANICAL ROOM. BACK TO CRAWL SPACE FOR WALL HYDRANT.
  - 1/2" UP TO RHH-1.



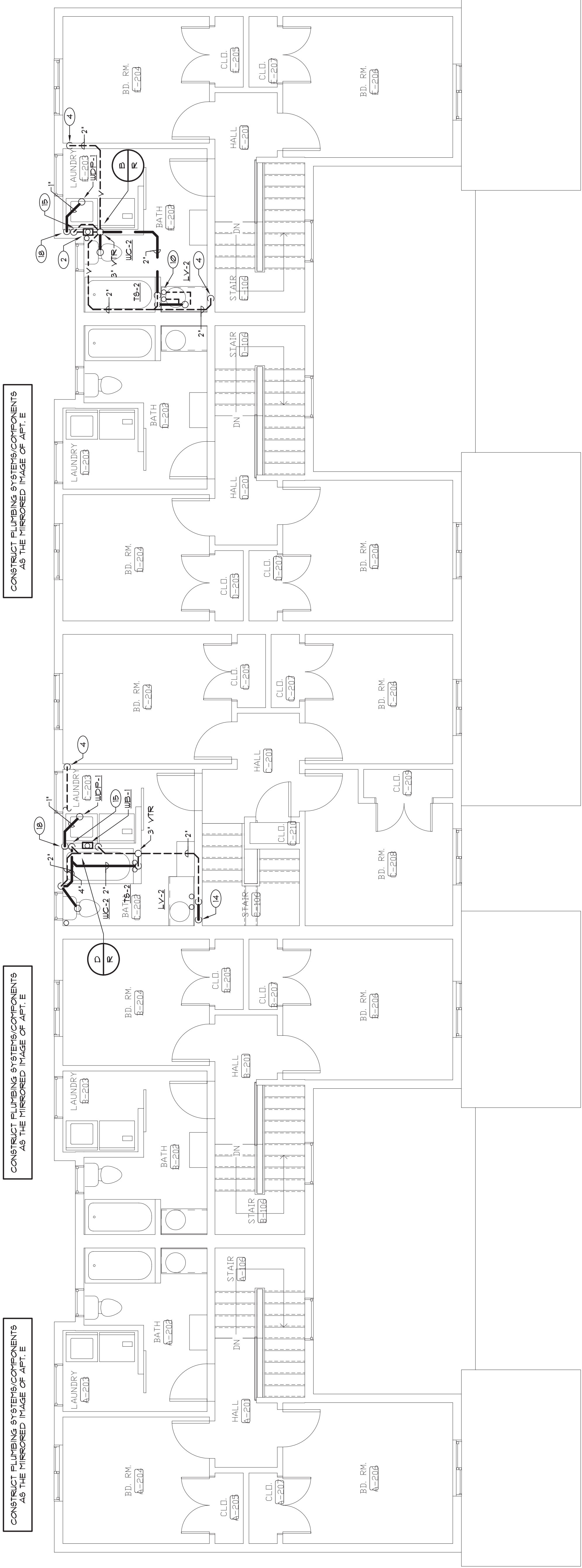
**CRAWL SPACE FLOOR - BLDG C - PLUMBING**  
SCALE 1/4" = 1'-0"



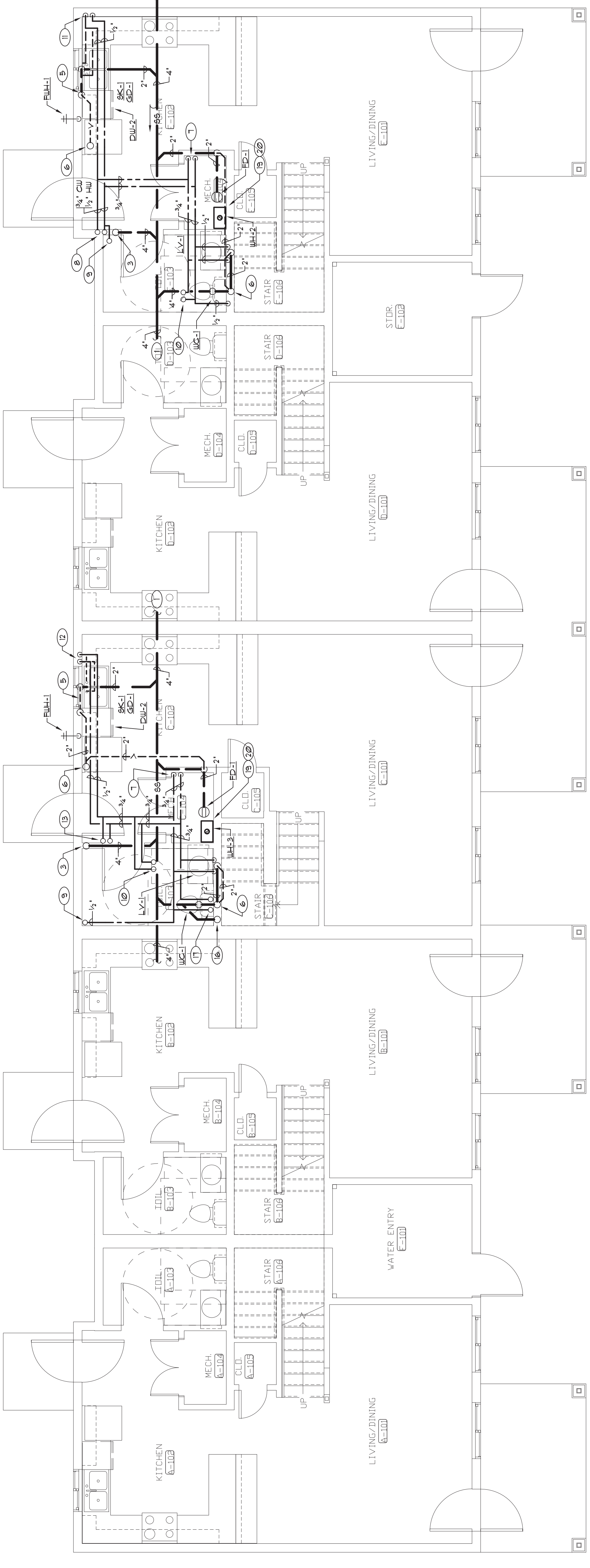


**WORK NOTES (THIS SHEET ONLY)**

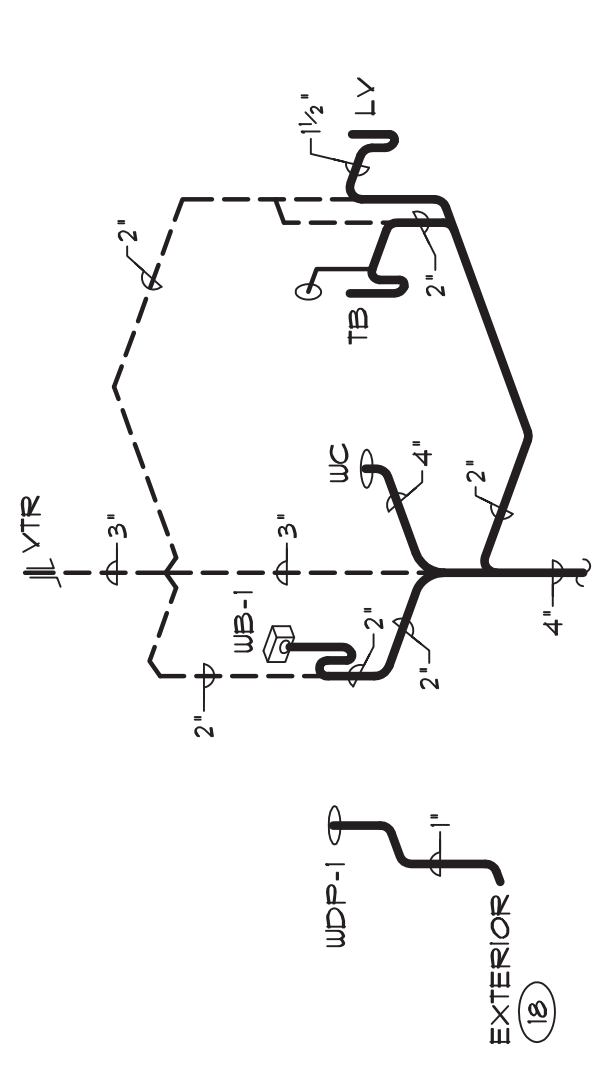
1. SANITARY: REFER TO CRAWL SPACE PLUMBING SHEETS FOR DETAIL FOR ACTUAL BUILDING DIRECTION OF FLOW.
2. WASHER STAND PIPE. SEE RISER B.
3. WASTE FROM BATHROOM/WASHER ABOVE.
4. VENT UP FROM BELOW.
5. SINK VENT TO OFFSET UNDER WINDOW.
6. VENT UP.
7. CUMULATIVE SUPPLIES. ROUTE IN COPPER, THEN TRANSITION TO PEX IN CEILING AND TO FIXTURES. PROVIDE WITH EASY ACCESS ISOLATION VALVES.
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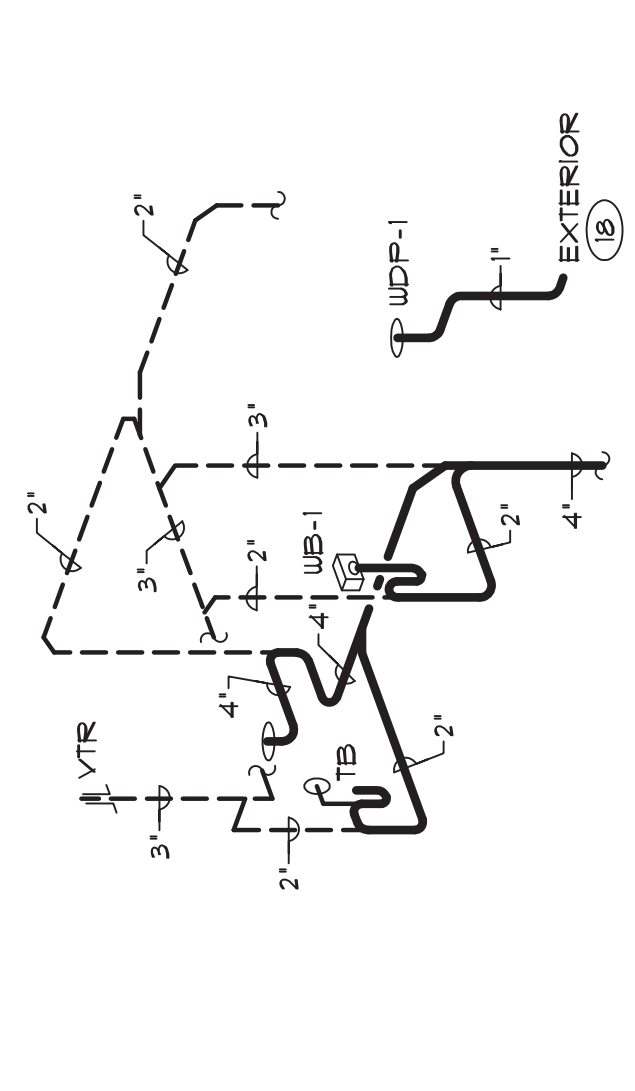
**2nd FLOOR - BLDG C - PLUMBING**  
 SCALE: 1/4" = 1'-0"



**1st FLOOR - BLDG C - PLUMBING**  
 SCALE: 1/4" = 1'-0"



**WASTE/VENT RISER**  
 SCALE: NONE



**WASTE/VENT RISER**  
 SCALE: NONE

