

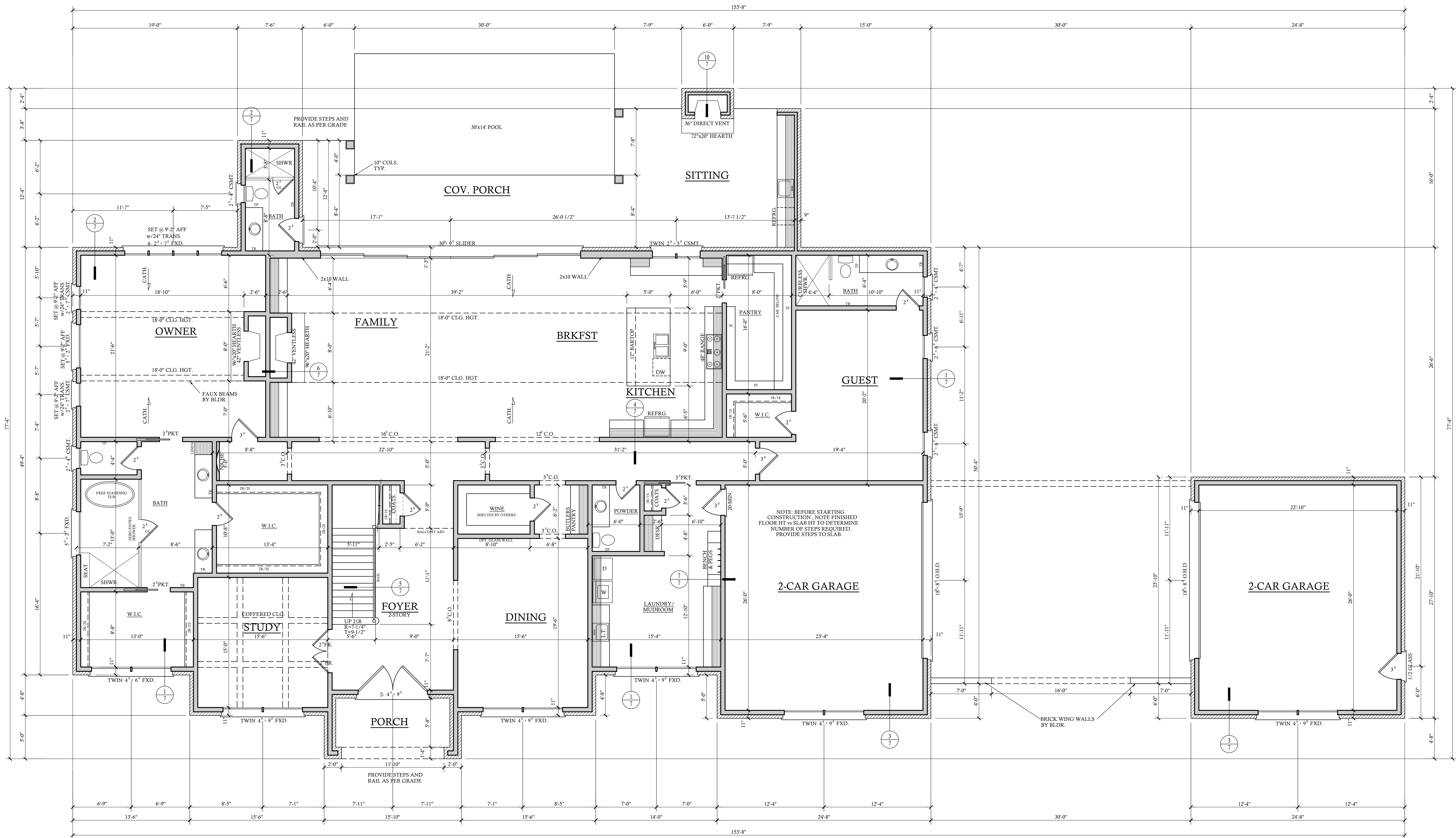
NOTE:
GRADE LINES ARE ASSUMED. VERIFY
WITH FINAL GRADING PLAN.



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



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



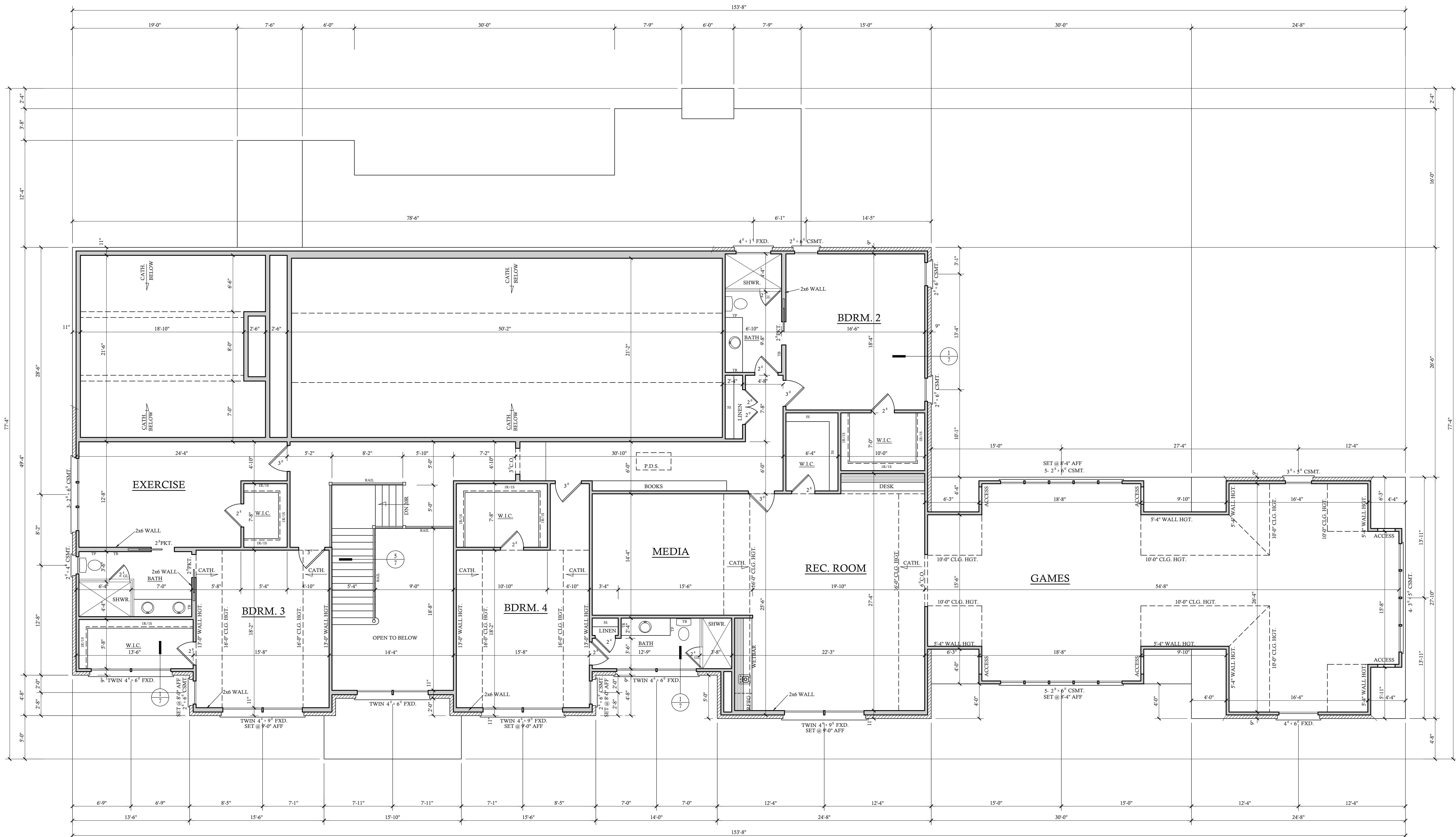
NOTE: ALL FIRST FLOOR WALLS DRAWN AS 2x6

NOTE:
ALL DOOR, CASSED OPENING, AND
WINDOW HEADERS AT THE FIRST
FLOOR LEVEL TO BE SET
@ 9'-0" A.F.F. U.N.O.

FIRST FLOOR PLAN

11'-0" CLG. HGT. U.N.O.
SET WINDOWS @ 9'-0" A.F.F. U.N.O.

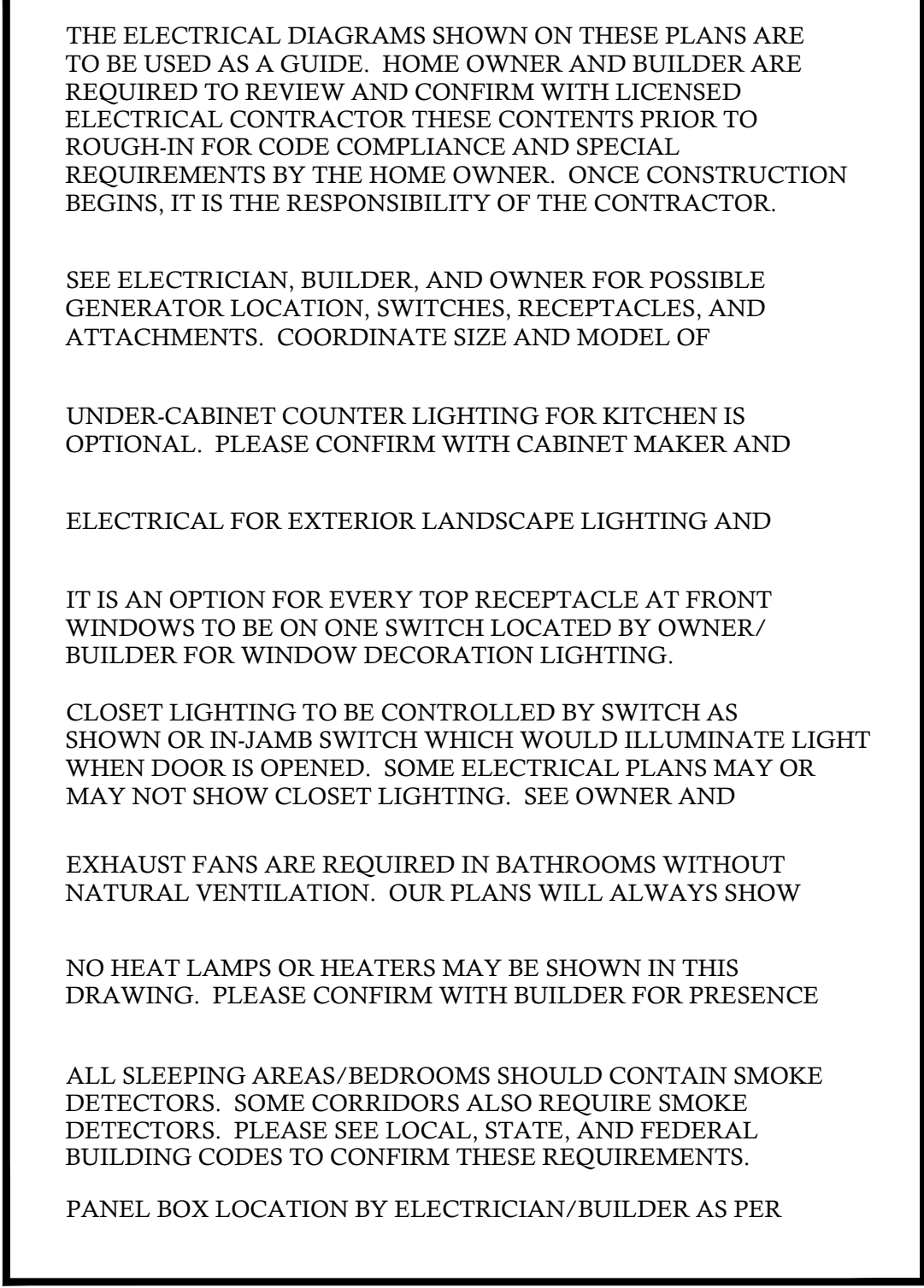
SCALE: 1/4"=1'-0"

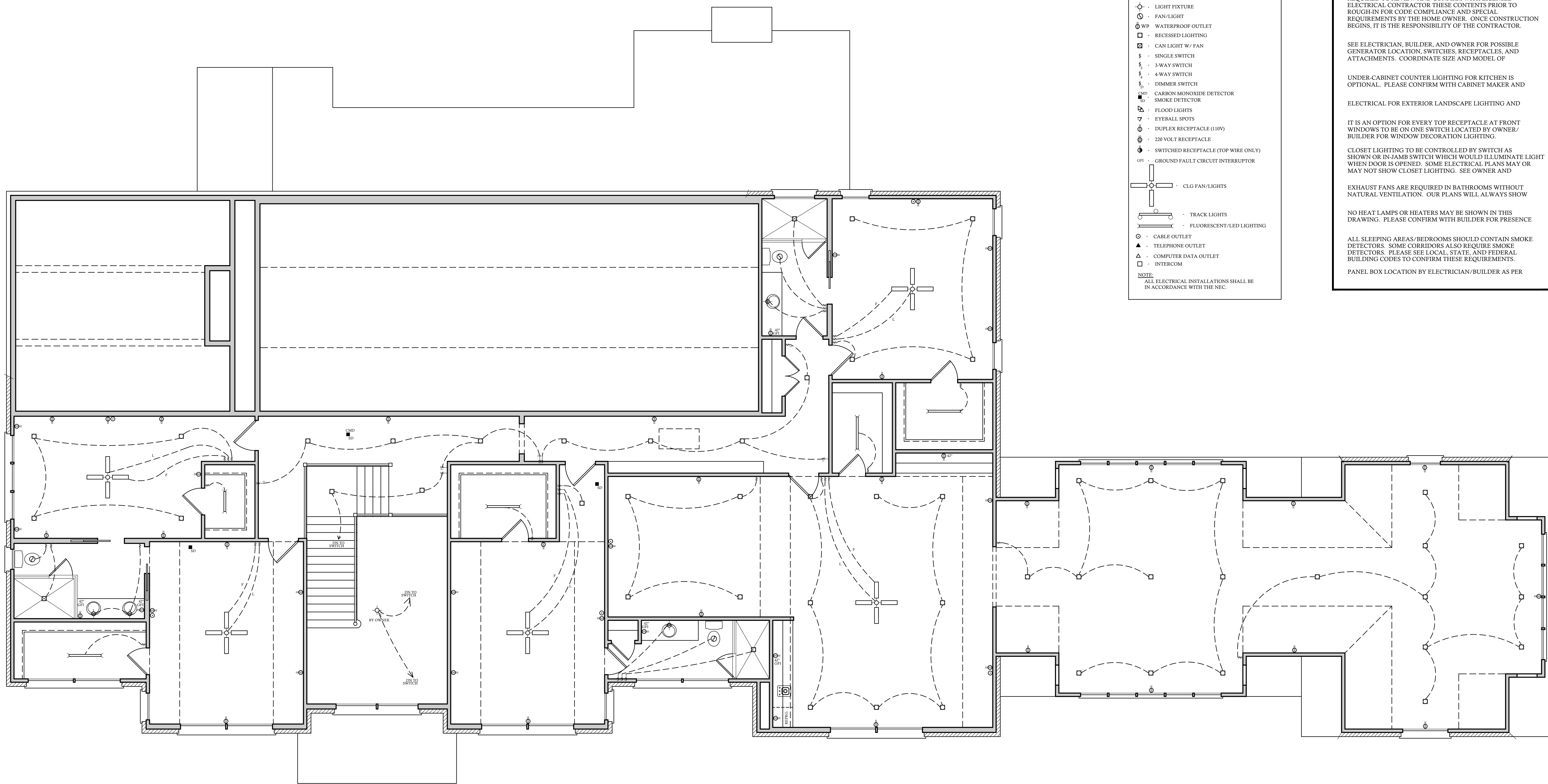


SECOND FLOOR PLAN

10'-0" CLG. HGT. U.N.O.
SET WINDOWS @ 8'-0" U.N.O.

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





ELECTRICAL LEGEND	
	- LIGHT FIXTURE
	- FAN/LIGHT
	- WATERPROOF OUTLET
	- RECESSED LIGHTING
	- CAN LIGHT W/ FAN
	- SINGLE SWITCH
	- 3-WAY SWITCH
	- 4-WAY SWITCH
	- DIMMER SWITCH
	- CARBON MONOXIDE DETECTOR
	- SMOKE DETECTOR
	- FLOOD LIGHTS
	- EYEBALL SPOTS
	- DUPLEX RECEPTACLE (110V)
	- 220 VOLT RECEPTACLE
	- SWITCHED RECEPTACLE (TOP WIRE ONLY)
	- GROUND FAULT CIRCUIT INTERRUPTOR
	- CLG FAN/LIGHTS
	- TRACK LIGHTS
	- FLUORESCENT/LED LIGHTING
	- CABLE OUTLET
	- TELEPHONE OUTLET
	- COMPUTER DATA OUTLET
	- INTERCOM
NOTE: ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE NEC	

THE ELECTRICAL DIAGRAMS SHOWN ON THESE PLANS ARE TO BE USED AS A GUIDE. HOME OWNER AND BUILDER ARE REQUIRED TO REVIEW AND CONFIRM WITH LICENSED ELECTRICAL CONTRACTOR THESE CONTENTS PRIOR TO ROUGH-IN FOR CODE COMPLIANCE AND SPECIAL REQUIREMENTS BY THE HOME OWNER. ONCE CONSTRUCTION BEGINS, IT IS THE RESPONSIBILITY OF THE CONTRACTOR.

SEE ELECTRICIAN, BUILDER, AND OWNER FOR POSSIBLE GENERATOR LOCATION, SWITCHES, RECEPTACLES, AND ATTACHMENTS. COORDINATE SIZE AND MODEL OF

UNDER-CABINET COUNTER LIGHTING FOR KITCHEN IS OPTIONAL. PLEASE CONFIRM WITH CABINET MAKER AND

ELECTRICAL FOR EXTERIOR LANDSCAPE LIGHTING AND

IT IS AN OPTION FOR EVERY TOP RECEPTACLE AT FRONT WINDOWS TO BE ON ONE SWITCH LOCATED BY OWNER/ BUILDER FOR WINDOW DECORATION LIGHTING

CLOSET LIGHTING TO BE CONTROLLED BY SWITCH AS SHOWN OR IN-JAMB SWITCH WHICH WOULD ILLUMINATE LIGHT WHEN DOOR IS OPENED. SOME ELECTRICAL PLANS MAY OR MAY NOT SHOW CLOSET LIGHTING. SEE OWNER AND

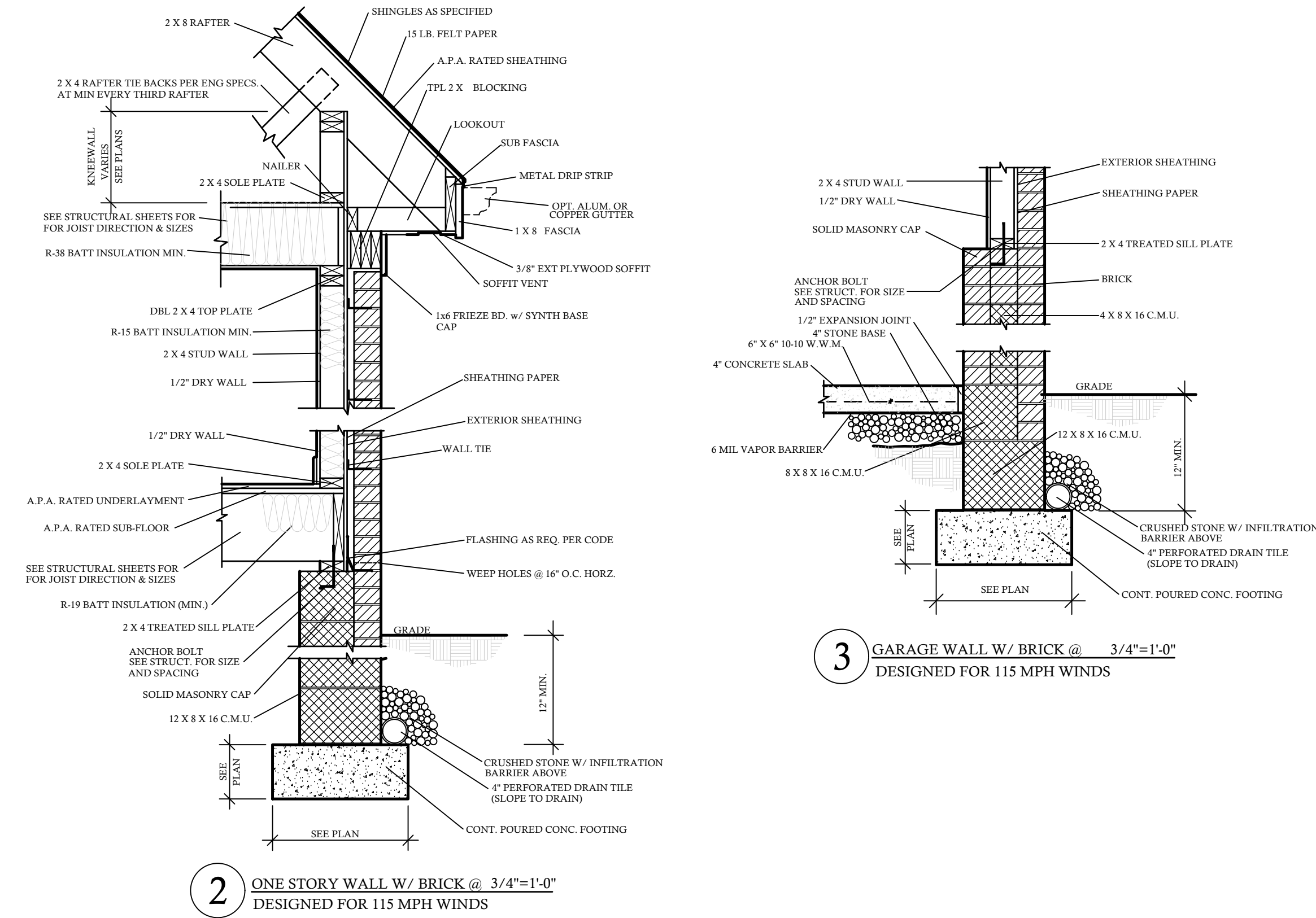
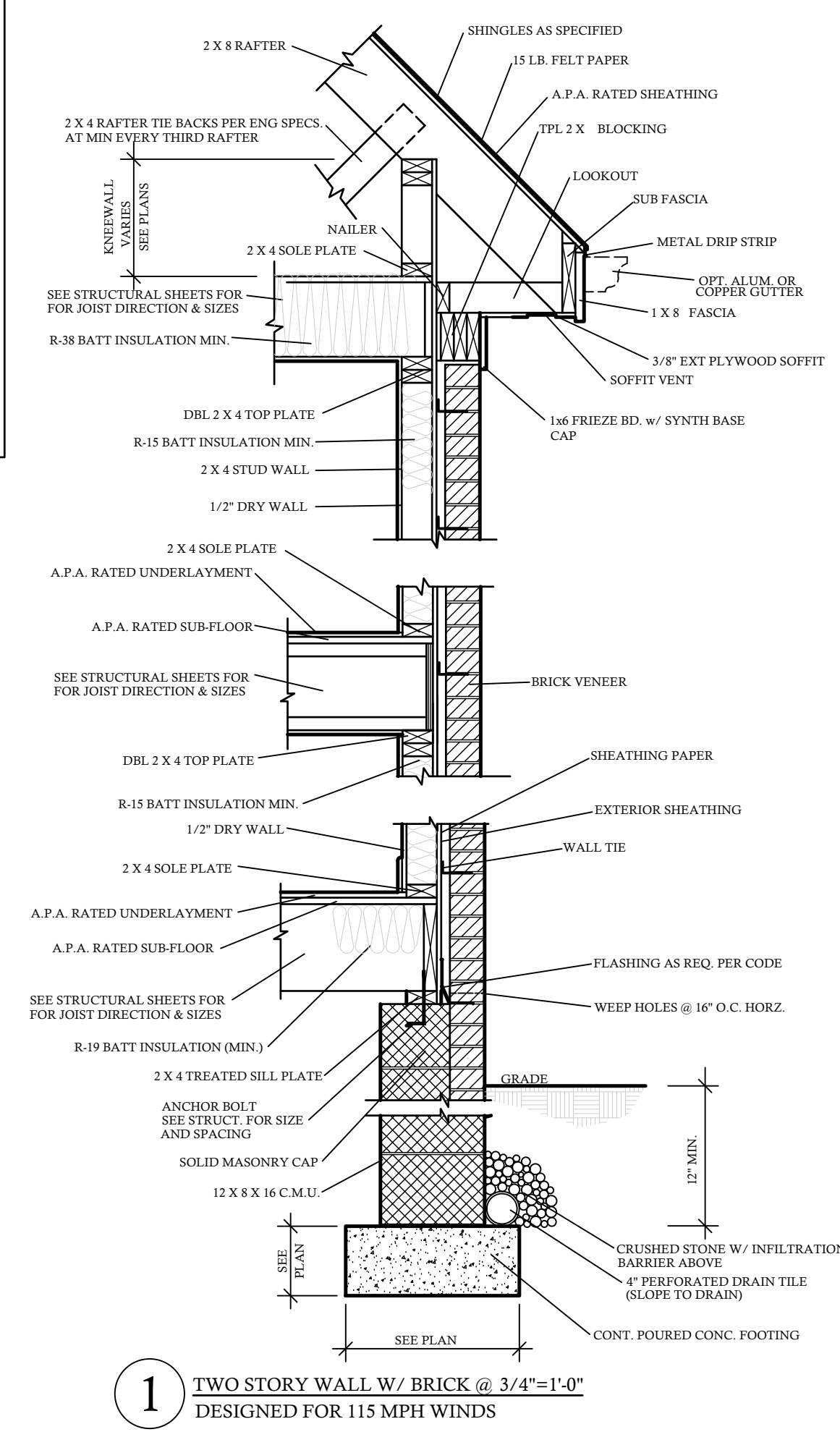
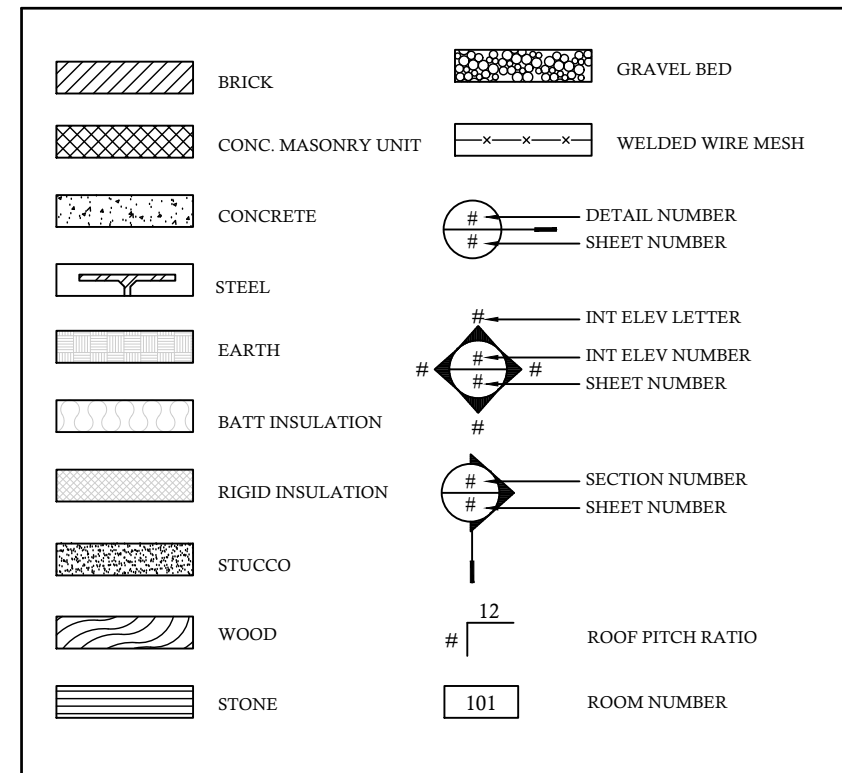
EXHAUST FANS ARE REQUIRED IN BATHROOMS WITHOUT NATURAL VENTILATION. OUR PLANS WILL ALWAYS SHOW

NO HEAT LAMPS OR HEATERS MAY BE SHOWN IN THIS DRAWING. PLEASE CONFIRM WITH BUILDER FOR PRESENCE

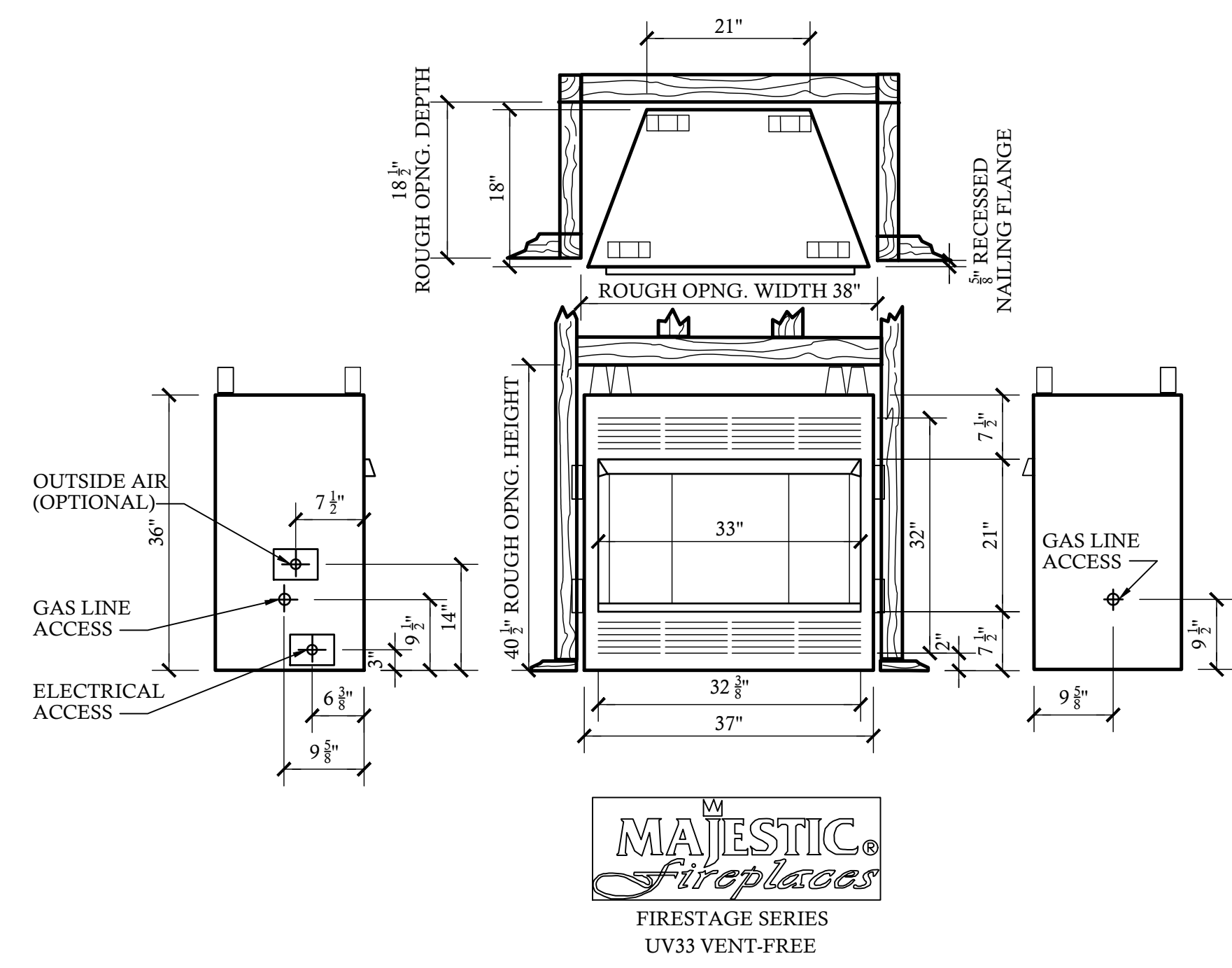
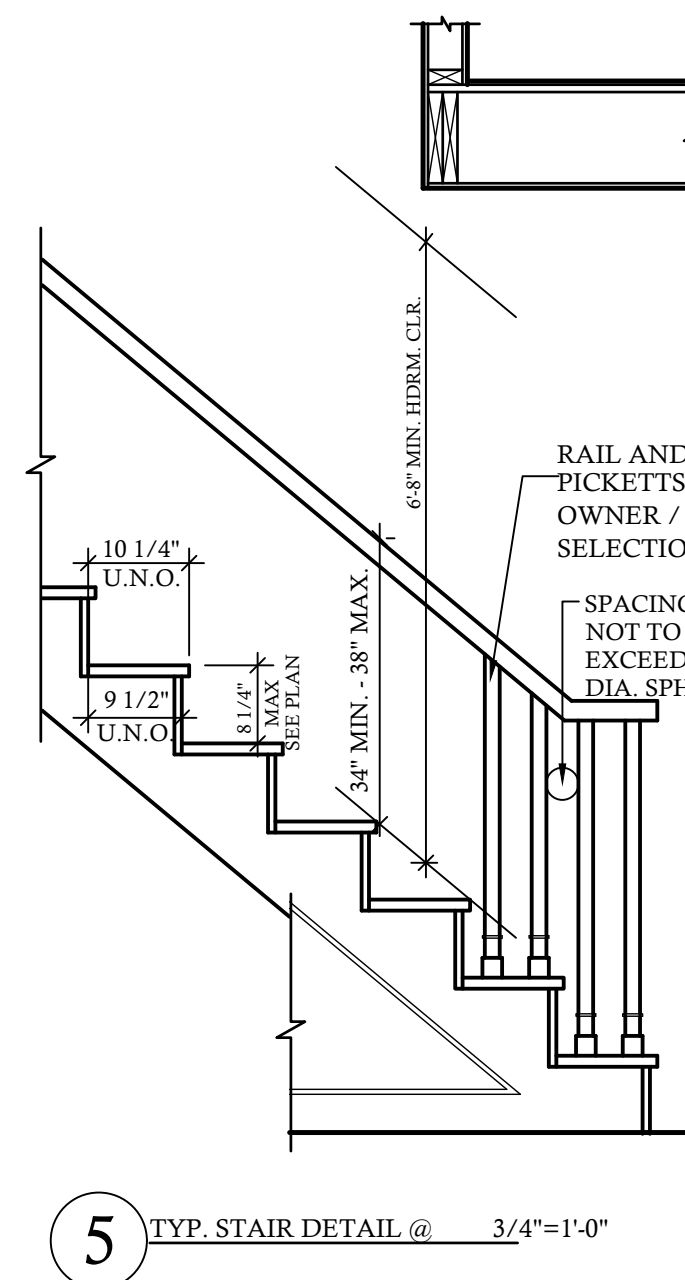
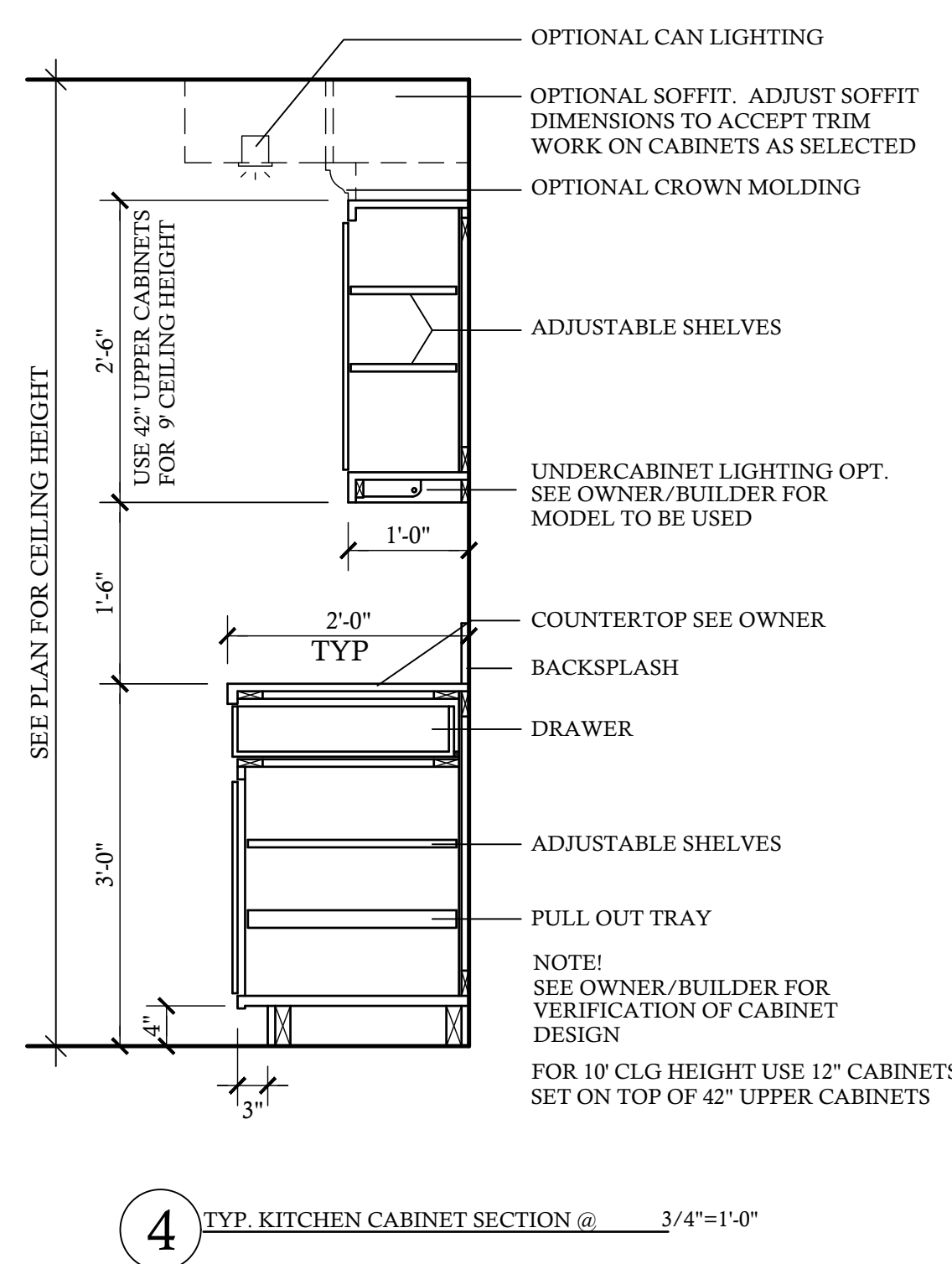
ALL SLEEPING AREAS/ BEDROOMS SHOULD CONTAIN SMOKE DETECTORS. SOME CORRIDORS ALSO REQUIRE SMOKE DETECTORS. PLEASE SEE LOCAL, STATE, AND FEDERAL BUILDING CODES TO CONFIRM THESE REQUIREMENTS.

PANEL BOX LOCATION BY ELECTRICIAN/BUILDER AS PER

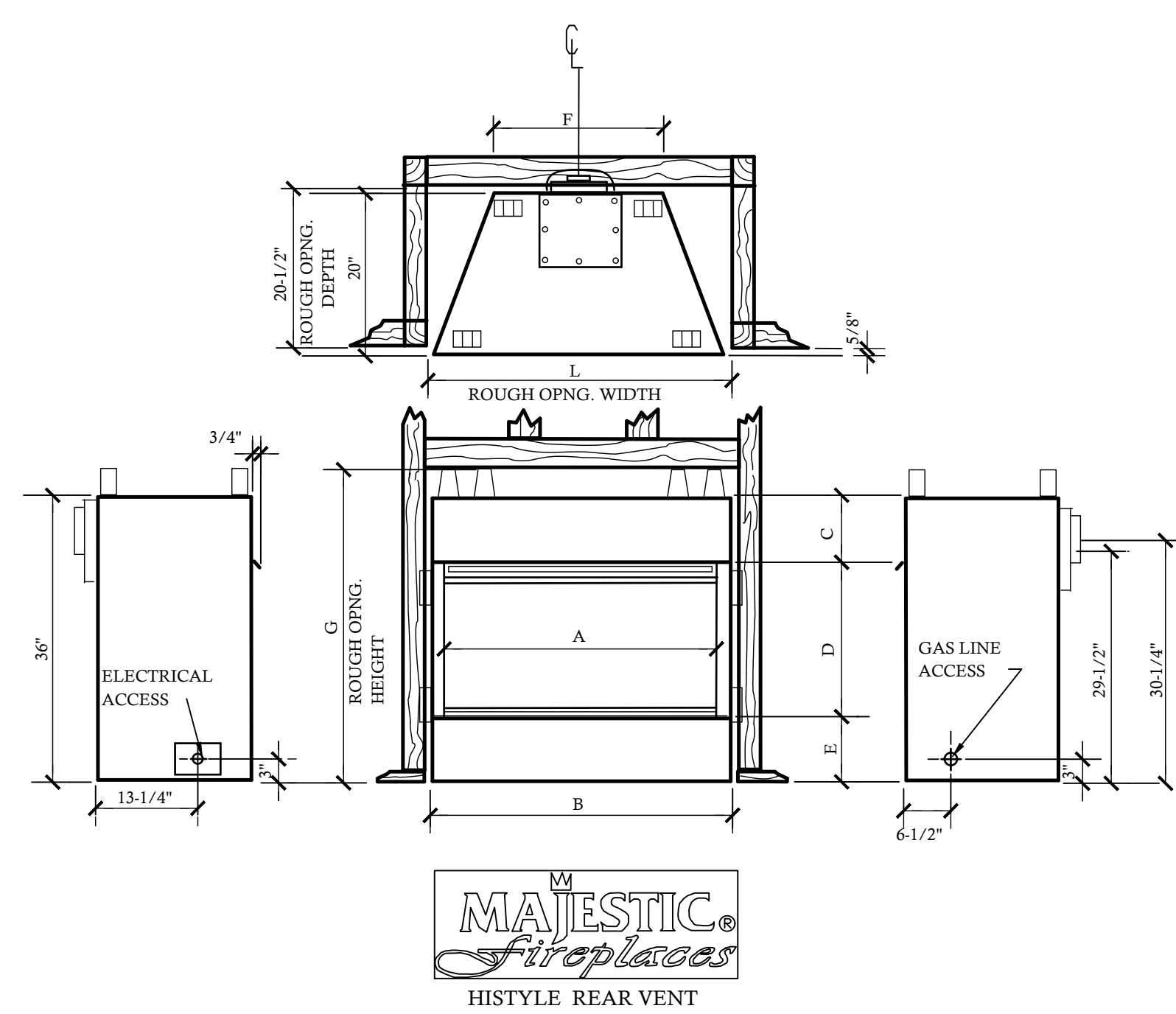
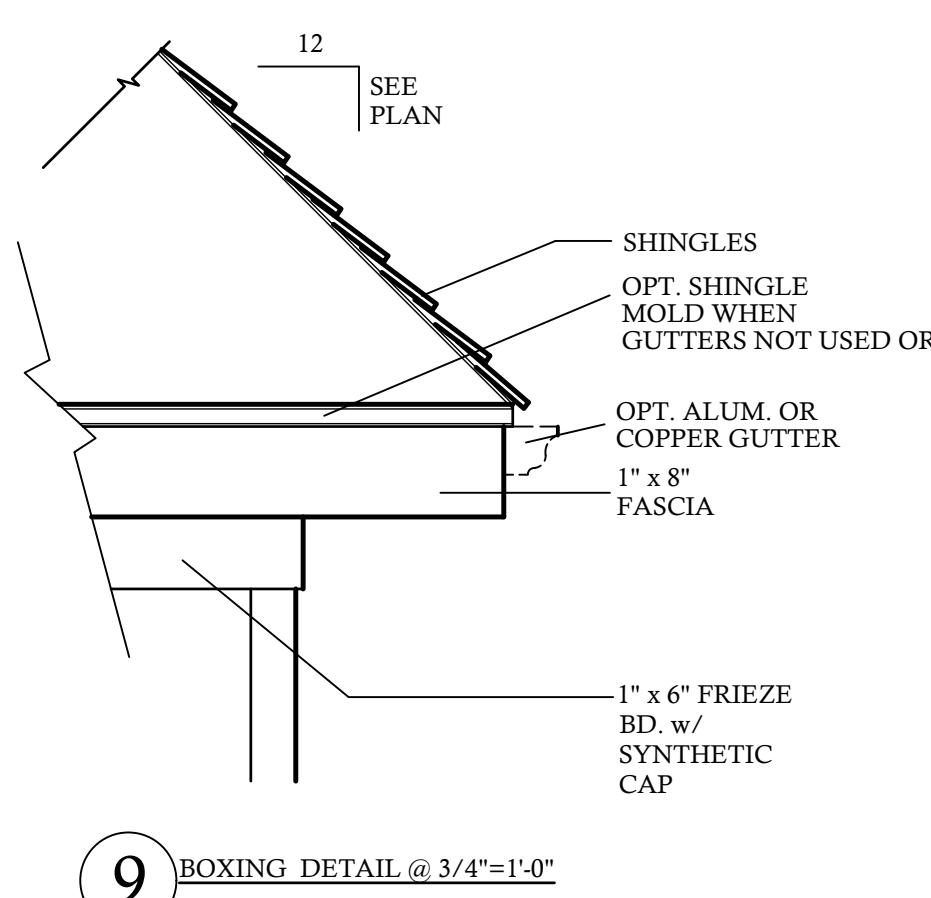
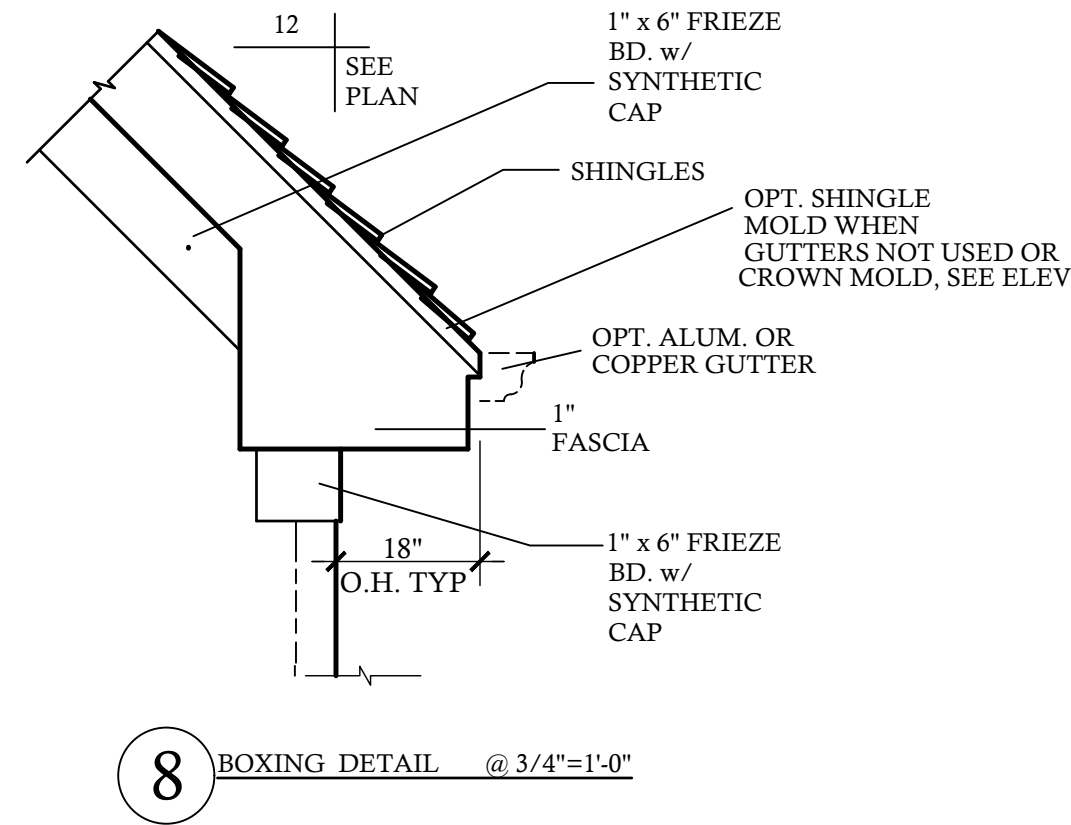
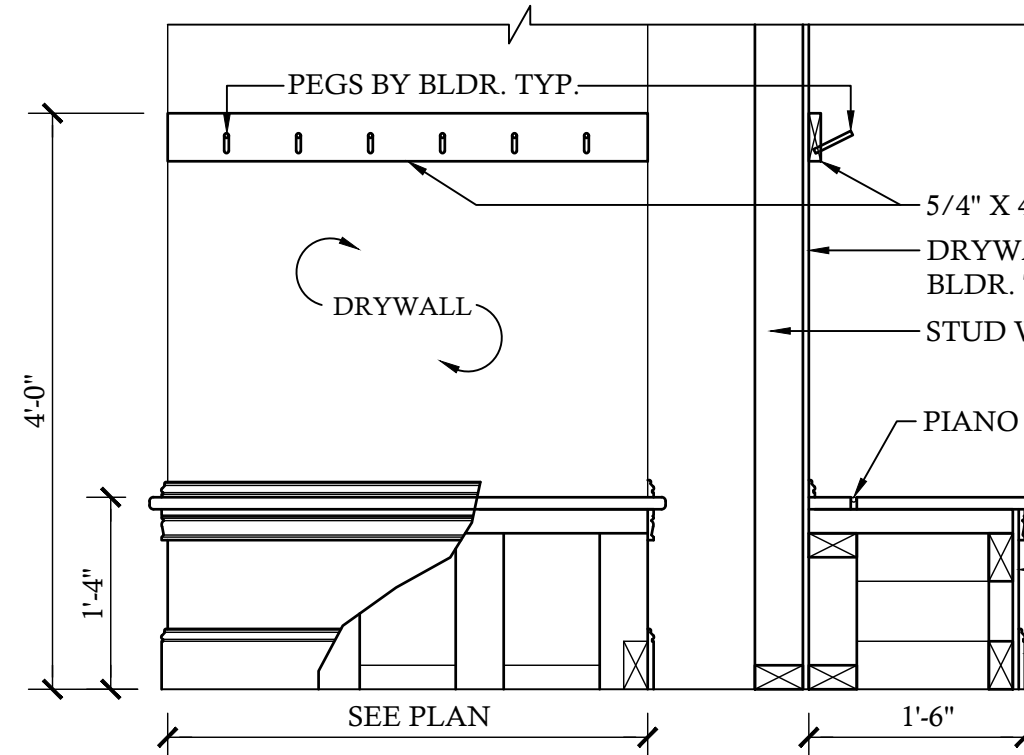
SECOND FLOOR ELECTRICAL PLAN



3 GARAGE WALL W/ BRICK @ 3/4\"/>



NOTE - VERIFY W/ MANUF. UNIT MODEL NO. & DIMENSIONS REQUIRED FOR FRAMING AROUND FIREPLACE UNIT PRIOR TO CONSTRUCTION



FIREPLACE DIMENSIONS												
	A	B	C	D	E	F	G	H	J	K	L	M
DVBR36	36"	40"	6-3/8"	25-1/4"	6-3/8"	22"	40-1/2"	45-3/4"	45-3/4"	64-3/4"	41"	32-3/8"
DVBR42	42"	46"	6-3/8"	25-1/4"	5-3/8"	28"	40-1/2"	49"	49"	69-1/2"	47"	35-1/4"

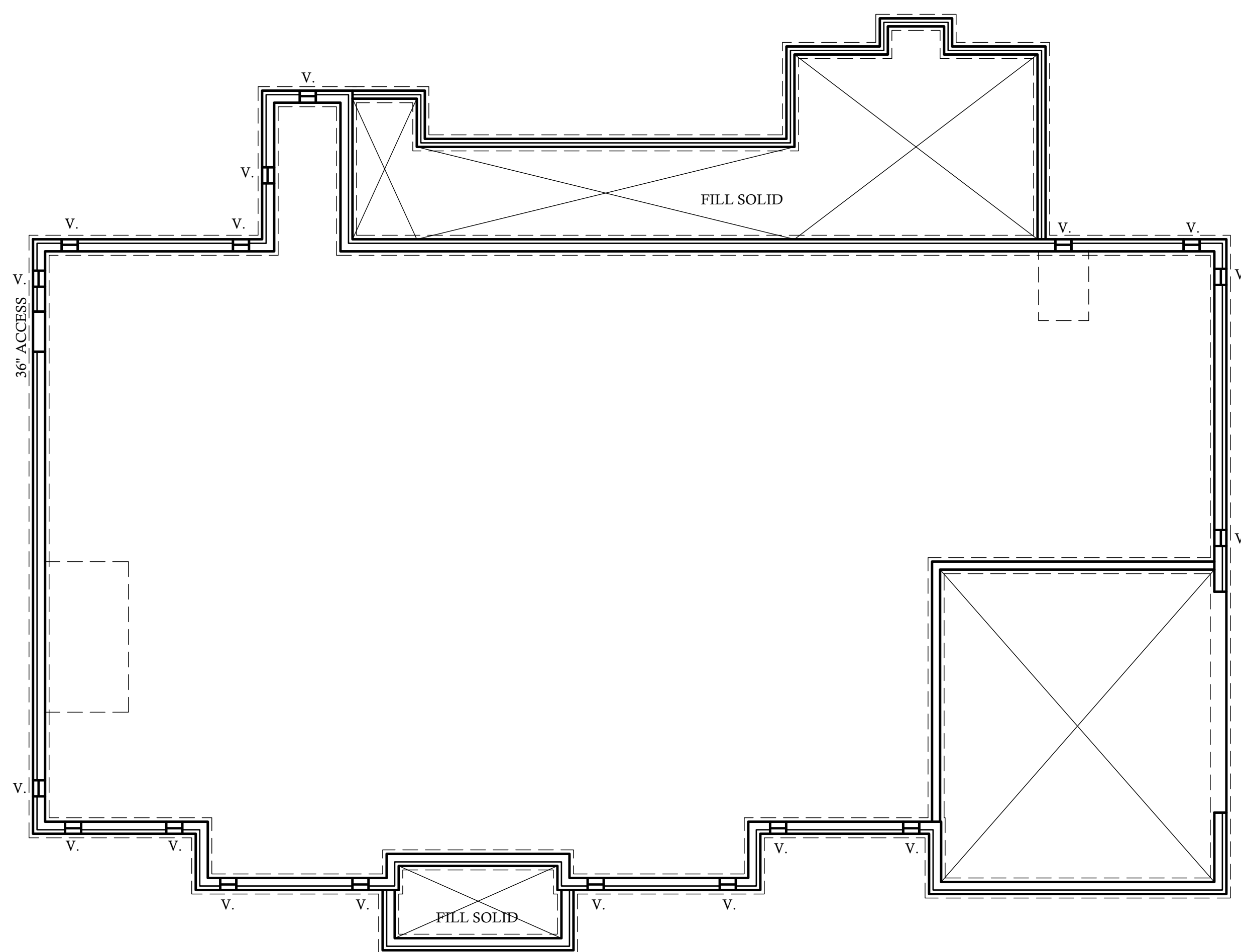
NOTE - VERIFY W/ MANUF. UNIT MODEL NO. & DIMENSIONS REQUIRED FOR FRAMING AROUND FIREPLACE UNIT PRIOR TO CONSTRUCTION

FOUNDATION VENT CALCS.

$\frac{4333}{1500} \text{ SQ. FT.} = 2.89$ MINIMUM NET AREA OF VENTILATION OPENING REQ'D
 $\frac{2.89}{.56} \text{ SQ. FT.} = 5$ VENTS REQUIRED - (15) VENTS PROVIDED
 NOTE: FIGURE BASED ON SECTION R-408.1.1 OF THE 2018 NCRC
 NOTE: FND VENT SPECS BASED ON PUSH/PULL POLYPROPYLENE FND VENT THAT ALLOWS 72 SQ. IN. OF NET FREE AREA PER VENT.
 NOTE: ONE VENTILATION OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING PER R-408.1.2 2018 NCRC. THE REMAINING VENTS LOCATED TO PROVIDE CROSS VENTILATION OF THE CRAWL SPACE.
 EXCEPTIONS:
 1 QUANTITY OF VENTS CAN BE REDUCED WHEN AN APPROVED VAPOR RETARDER MATERIAL IS USED IN ACCORDANCE WITH SECTION 408.2 OF THE 2018 NCRC. THE MINIMUM NET AREA OF VENTILATION OPENINGS SHALL NOT BE LESS THAN 1 SQUARE FOOT FOR EACH 1500 SQUARE FEET OF UNDER FLOOR SPACE AREA. ONE VENTILATION OPENING SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING PER R-408.1.2 2018 NCRC. THE REMAINING VENTS LOCATED TO PROVIDE CROSS VENTILATION OF THE CRAWL SPACE.
 2 FOUNDATION VENTS CAN BE ELIMINATED IF CONDITIONS ARE MET AS PER SECTION R409 2018 NCRC.

ROOF VENTILATING REQUIREMENTS

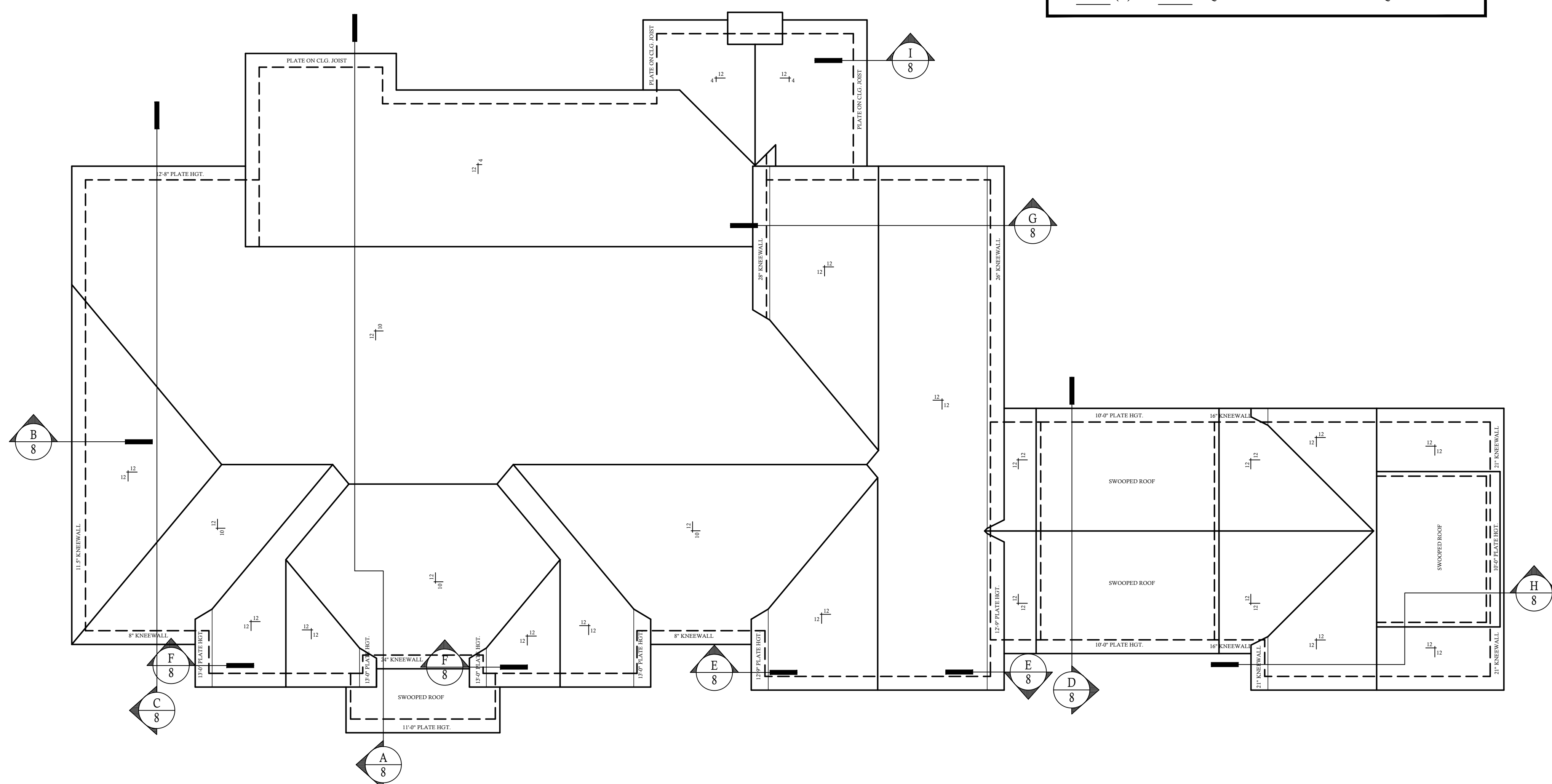
SQ. FT. OF AREA VENTILATED = $\frac{7467}{150}$ (140) = $\frac{7168.32}{150}$ TOTAL SQ. IN. OF ATTIC VENTILATION REQ'D
 NOTE: FIGURE BASED ON SECTION R-806.2 OF THE 2018 NCRC.
 MINIMUM NET FREE VENTILATING AREA IS PERMITTED TO BE REDUCED TO 1 TO 300 WHEN CONDITIONS ARE MET AS PER SECTION R806.2 OF THE 2018 NCRC
 INLET:
 $\frac{7168.32}{150} (5) = 3584.16$ SQ. IN. OF INLET VENTING REQ'D
 OUTLET:
 $\frac{7168.32}{150} (5) = 3584.16$ SQ. IN. OF OUTLET VENTING REQ'D



FOUNDATION VENT PLAN

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

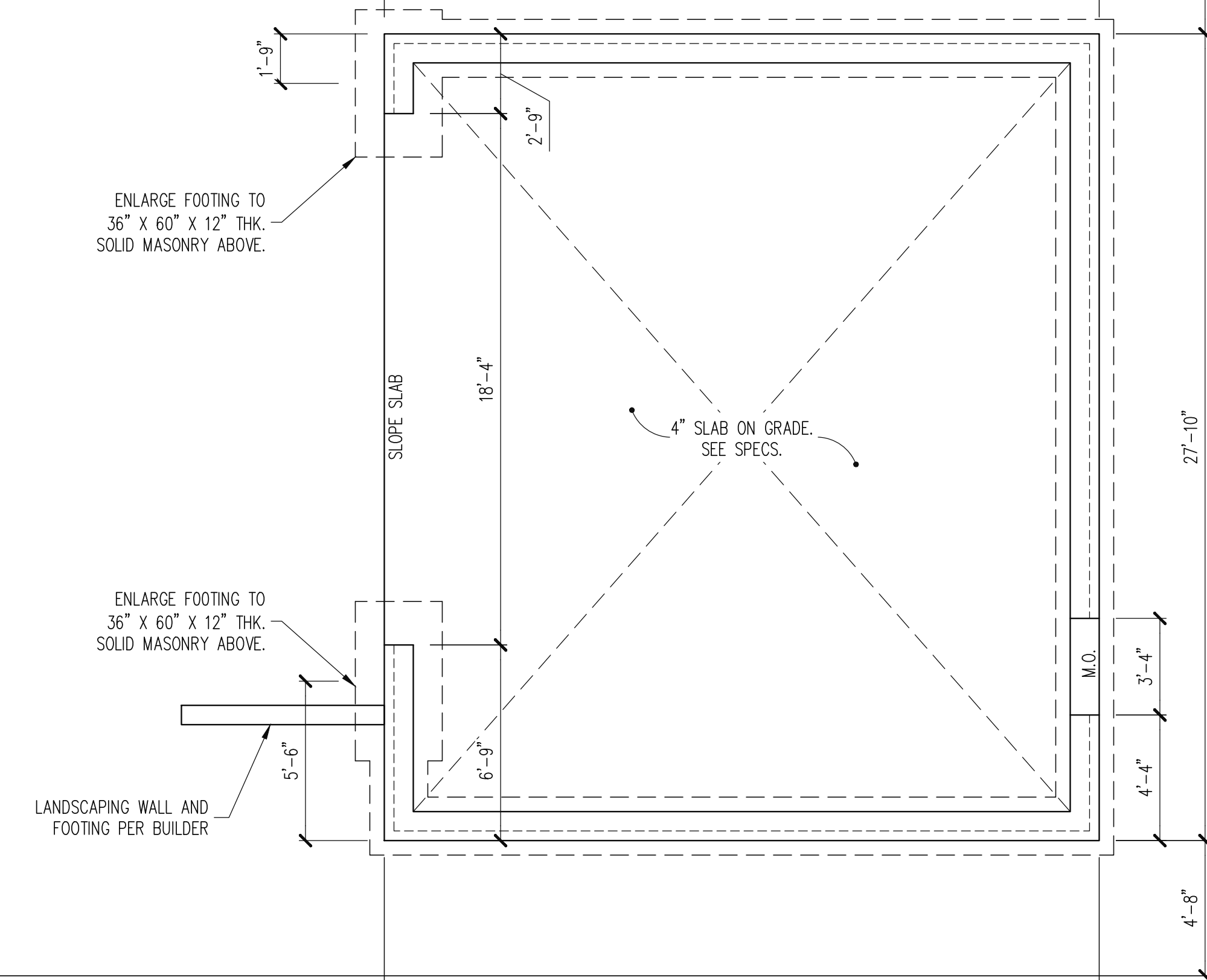
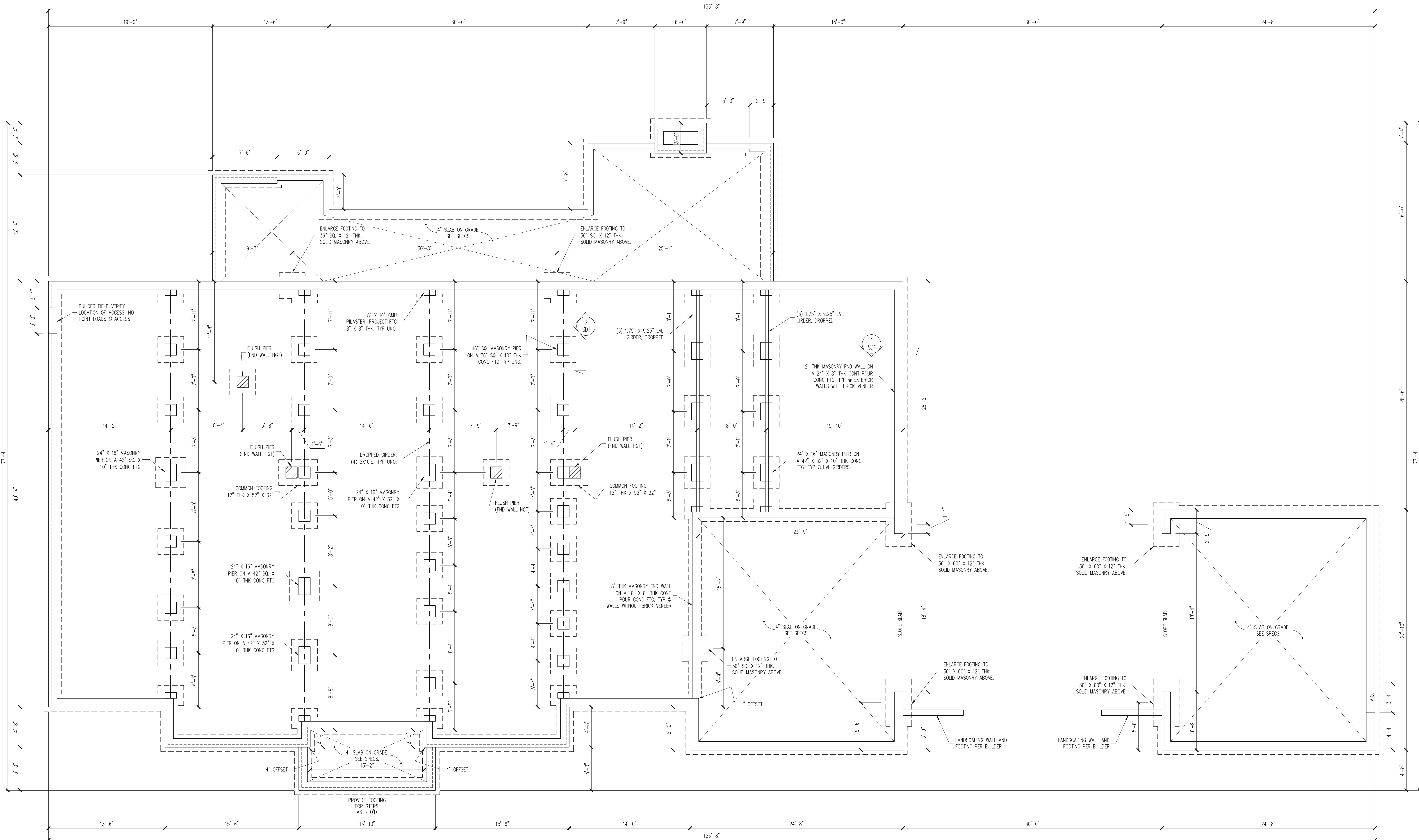
-VENT LOCATIONS ARE TO BE VERIFIED PRIOR TO CONSTRUCTION W/ BUILDER BASED ON SECTION R-408 IN THE 2018 NCRC.
 -CRAWL SPACE TO HAVE A MIN. OF 24" OF CLEAR SPACE ABOVE GRADE.
 -A MIN. OF 36" OF CLEAR SPACE ABOVE GRADE IS NEEDED WHEN HVAC UNIT IS LOCATED IN CRAWL, PROVIDE A CLEAR PATH FROM ACCESS TO THE HVAC UNIT.



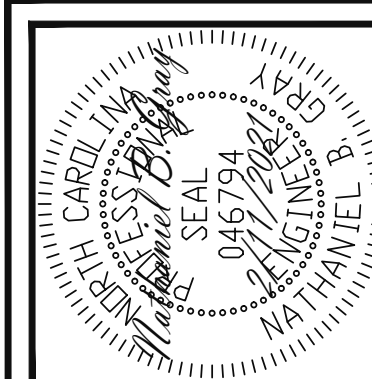
ROOF FRAMING PLAN

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





FOUNDATION PLAN
1/4" = 1'-0"



STRUCTURAL ENGINEERS
License No. C-3870
183 Wind Chime Ct. Ste 100
Raleigh, North Carolina 27615
Phone (919) 844-1661
Lech ASSOCIATES, P.A.

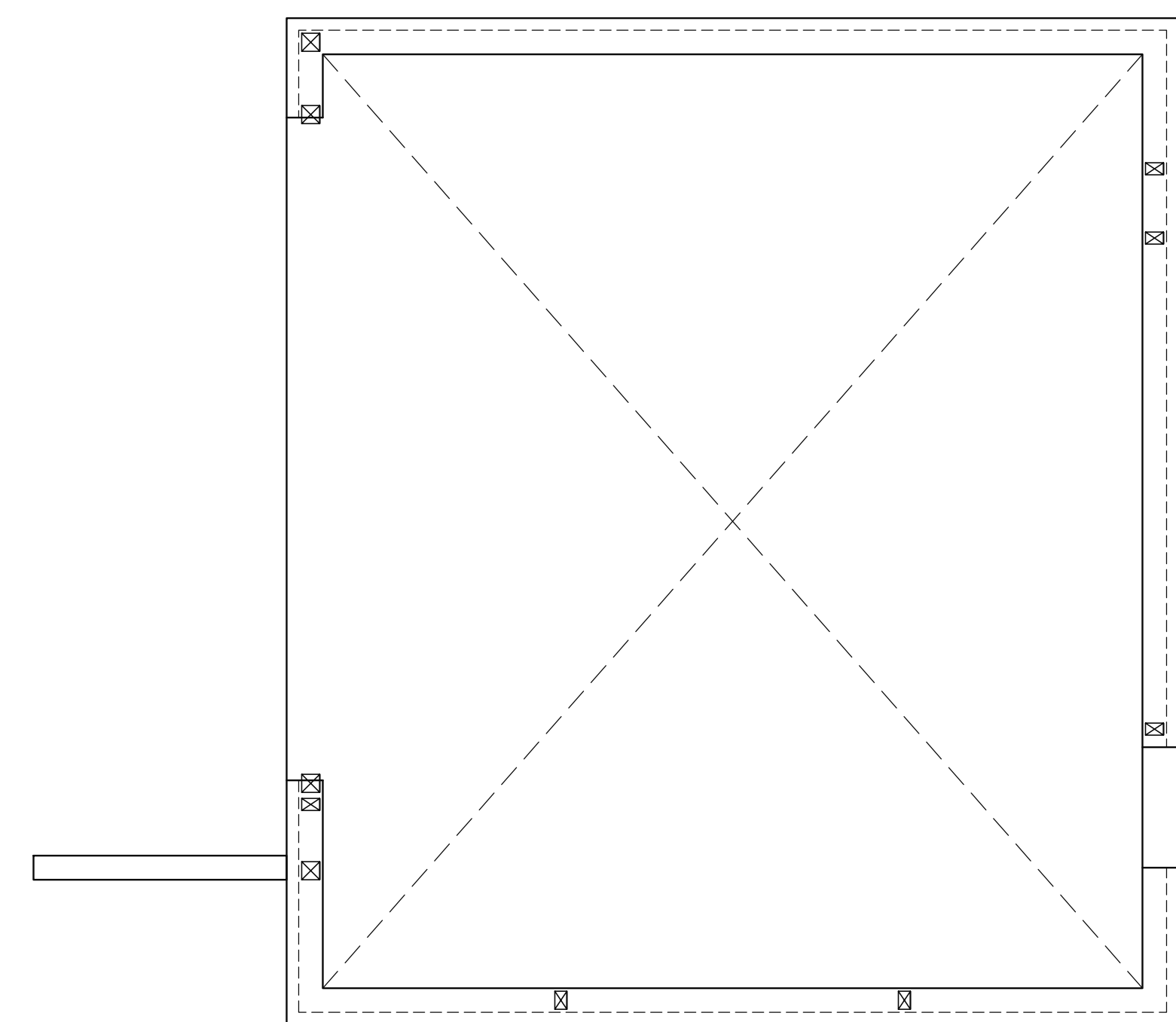
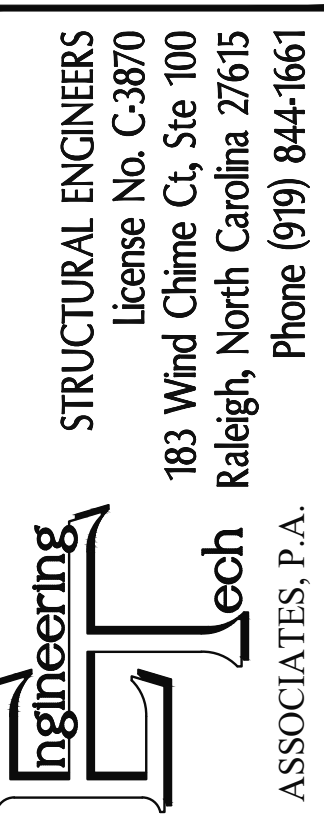
ST. CLAIR CONSTRUCTION	
STRUCTURAL ADDENDUM	
SCOPE:	
LOT #:	32 SOUTHERN HILLS

ENG: NBG
DATE: 2/11/2021

PROJECT NO.
21-15-008

SHEET NO.
S1

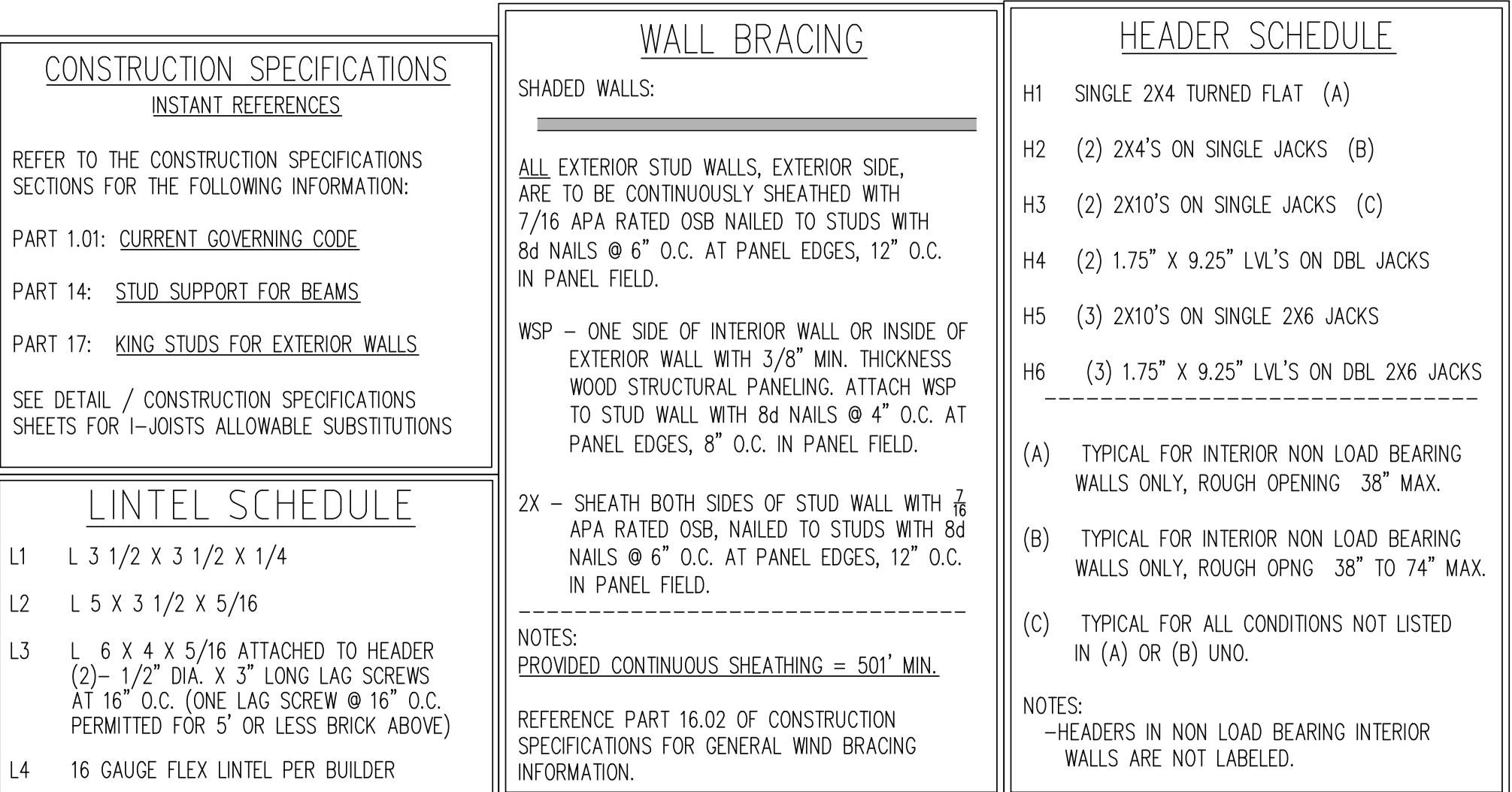
1 of 6


$$1/4'' = 1'-0''$$


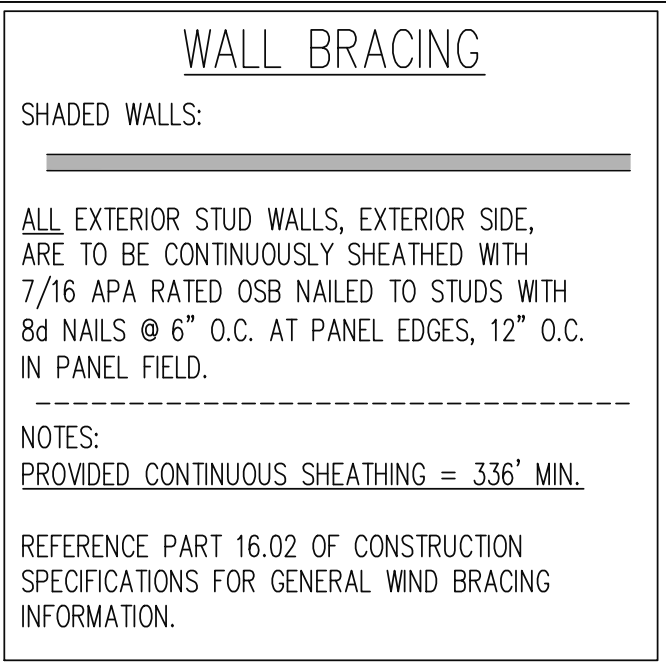
332 SOUTHERN HILLS

S2

of 6



WALLS AND CEILING



1/4" = 1'-0"

