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- ALL ANGLED WALLS ARE 45° UNLESS NOTED OTHERWISE.
  VERIFY ALL WINDOW SIZES, RADIUS, AND DETAILS WITH THE CHOSEN MANUFACTURE. FOR WALL CONSTRUCTION, SEE CHAPTER 6 OF 2018 NCRC- 2015 IRC.

  TEMPERED GLASS TO BE USED AT ALL LOCATIONS AS REQUIRED BY 2018 NCRC- 2015 IRC.
- GARAGE WALLS SHALL BE SEPARATED FROM THE RESIDENCE AND ITS ATTIC BY GYPSUM BOARD IN ACCORDANCE WITH 2018 NCRC- 2015 IRC SECTION R309.2.

  ALL HABITABLE ROOMS SHALL MEET LIGHT/VENTILATION & EGRESS AS REQUIRED IN 2018 NCRC- 2015 IRC SECTION R303.1 AND R310.
  - WOODARD SEASE & ASSOCIATES, PC HEREBY EXPRESSLY RESERVES ITS COPYRIGHT AND OTHER PROPERTY RIGHTS TO THESE PLANS. THESE PLANS ARE TO BE USED FOR THE CONSTRUCTION OF (ONE) RESIDENCE ONLY, ANY OTHER USE, CHANGE AND/OR REPRODUCTION IN ANY FORM WILL RENDER THESE PLANS FRAUDULENT.

| LOCATION                     | INSULTAION TYPE          | R-VALUE |
|------------------------------|--------------------------|---------|
| FLAT CEILING                 | FIBERGLASS BATT/BLOWN FG | R 38    |
| FLAT CLG./<br>WALK-UP ATTIC  | FIBERGLASS BATT          | R 38    |
| VAULTED CLG.                 | FIBERGLASS BATT          | R 38    |
| WALLS                        | FIBERGLASS BATT          | R 19    |
| FLOORS                       | FIBERGLASS BATT          | R 19    |
| FLOOR OVER<br>GARAGE         | FIBERGLASS BATT          | R 30    |
| CRAWLSPACE/<br>BASEMENT WALL | FIBERGLASS BATT          | R 10    |

ADDITONAL ELEVATION NOTES \* USE ICE & WATER SHIELD AT ALL

ROOF PLANES SLOPED BELOW 4:12

SEE FLOOR PLAN, ROOF PLAN, AND/OR ROOF FRAMING DETAIL SHEET FOR PLATE HEIGHTS AT RAFTER AND/OR TRUSS BEARING LOCATIONS.

PROVIDE FLASHING AT ALL ROOF/WALL CONNECTIONS

VERIFY THAT ROOFS ARE BELOW WINDOW SILLS

**ADDITIONAL NOTES** 

WALL THICKNESS / ANGLES ALL EXTERIOR STUD WALLS ARE DRAWN 4"THICK U.N.O. ALL INTERIOR STUD WALLS ARE DRAWN4" THICK U.N.O. ANGLED WALLS ARE DRAWN @ 45° U.N.O.

ALL BEDROOMS MUST HAVE AT LEAST ONE WINDOW WHICH CONFORMS TO EGRESS REQUIREMENTS FOR CLEAR OPENING HEIGHT AND WIDTH (SEE NCRC SEC. 310.1.1) IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY EGRESS SIZING BASED ON CHOSEN MANUFACTURER, AS PRODUCT SIZES MAY

ALL INTERIOR DOORS TO BE 8/0 TALL AT 10/0 CEILINGS AND 6/8 AT 9/0 CEILINGS OR LESS UNLESS NOTED OTHERWISE. 6/8 TALL AT BASEMENT. VERIFY CASED OPENINGS HEIGHTS WITH BUILDER. BARN DOORS TO HAVE ADDITIONAL BLOCKING FOR RAIL HARDWARE @ TIME OF FRAMING AND SOFT CLOSE HARDWARE INSTALLED.

**NOTES:** 

CONTRACTOR TO VERIFY ALL DIMENSIONS & EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION.

DOOR & WINDOW SIZES ARE GIVEN IN FEET & INCHES IN WIDTH & HEIGHT RESPECTIVELY.

DOOR EXAMPLE: (\_\_\_\_3<sup>0</sup>\_\_). 3'-0" WIDE BY \*6'-8" TALL (\*U.N.O.). WINDOW EXAMPLE:  $(2^8 \times 4^0)$ . 2'-8" WIDE BY 4'-0" TALL.

CONTRACTOR SHALL VERIFY ALL INTERIOR FINISHES, FLOOR **COVERINGS, AND TRIM SIZES & CONFIGURATIONS WITH** OWNER PRIOR TO CONSTRUCTION.

IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY CLEARANCES OF THE ITEMS MENTIONED ABOVE

PRIOR TO CONSTRUCTION. REFER TO EXTERIOR ELEVATIONS FOR EXTERIOR WALL FINISHES.

REFER TO MANUFACTURERS SPECS FOR ROUGH OPENING DIMENSIONS, FOR DOORS AND WINDOWS.

ALL BEAM SIZES TO BE VERIFIED BY STRUCTURAL ENGINEER.

CONTRACTOR SHALL MAKE ALL NECESSARY MODIFICATIONS DURING CONSTRUCTION PROCESS TO COMPLY WITH I.R.C. (INTERNATIONAL RESIDENTIAL CODE), LATEST EDITION, OR

APPLICABLE CODES AT SITE.

SUBJECT TO SITE MODIFICATIONS IS IN THE CONTRACTOR'S DISCRETION WITHIN ENGINEER SPEC. GARAGE/DWELLING DOOR NOTE:

-GARAGE/DWELLING SEPARATION SHALL BE EQUIPPED WITH A 20 MINUTE FIRE RATED DOOR REQUIREMENT PER R302.5.1

**EXTERIOR DECK/HANDRAIL NOTE:** 

-GUARDS, RAILINGS, AND ATTACHMENTS MEETING AM III ARE REQUIRED AND MUST MEET THE REQUIREMENTS OF R301.5, R311.7, AND R312 AS REQ'D FROM THE 2018 NC BUILDING CODE AT PORCHES AND SCREEN PORCH IF DROP OF FLOOR OR GRADE IS 30 INCHES OR MORE

WINDOW SPEC NOTE:

-WINDOWS TO BE PER BUILDER AND/OR HOMEOWNER, LOW-E WITH ARGON, U FACTOR .32, SHGC .22

FACTORY-BUILT FIREPLACE NOTE:

-R1004.1 GENERAL FACOTRY BUILT FIREPLACES SHALL BE LISTED AND LABELED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING. FACTORY-BUILT FIREPLACES SHALL BE TESTED IN ACCORDANCE WITH UL 127.

INTERIOR HANDRAIL NOTE:

-INTERIOR STAIRS TO MEET SECTION 311.7

WINDOW NOTE:

-ALL WINDOWS CLOSER THAN 24" TO FLOOR MUST HAVE CHILD

-WINDOWS TO BE PER BUILDER AND/OR HOMEOWNER, LOW-E WITH ARGON, U FACTOR .32, SHGC .22

WINDOW FALL PREVENTION PROTECTION

IF ANY PART OF THE CLEAR OPENING OF THE OPERABLE PORTION OF A WINDOW IS LOCATED MORE THAN 72" ABOVE THE EXTERIOR GRADE THEN THE LOWEST PART OF THE CLEAR OPENING MUST BE AT LEAST 24" ABOVE THE FLOOR OF THE ROOM IN WHICH IT IS LOCATED.

**EXCEPTIONS:** 

THE WINDOW IS A FIXED UNIT

THE OPENING DOES NOT ALLOW THE PASSAGE OF A 4- INCH DIAMETER SPHERE. THE WINDOW IS EQUIPPED WITH A WINDOW FALL PREVENTION DEVICE MEETING ASTM F2090.

THE WINDOW IS EQUIPPED WITH AN APPROVED WINDOW OPENING LIMITING DEVICE.

NOTE: WHEN USED WITH AN EMERGENCY ESCAPE AND RESCUE WINDOW, OPENING LIMITING DEVICES AND FALL PREVENTION DEVICES MUST BE APPROVED FOR EMERGENCY ESCAPE AND RESCUE PROVISIONS.





MON RESIDENC

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## **ROOF VENTILATING REQUIREMENTS**

= <u>35.5</u> SQ. FT. REQ'D

ROOF VENTILATING REQUIREMENTS

(POWER ROOF VENTILATOR REQUIRED)

= <u>17.74</u> SQ. FT. REQ'D

BUILDER TO PROVIDE APPROPRIATE VENTILATING AS REQUIRED. SEE 2018 NCRC - 2015 IRC SECTION 806.2

# FND. VENT CALCS.

=28.3 SQ. FT. VENT REQ'D.

 $\frac{28.3 \text{ SQ. FT.}}{.47} = 60 \text{ VENTS TO BE PROVIDED}$ 

NOTE: VERIFY THESE CALCULATIONS WITH ACTUAL SIZES OF VENTS USED. NOTE: FIGURE BASED ON SECTION R-408

OF THE 2018 NCRC - 2015 IRC. MAY BE REDUCED TO 1 SQ. FT. FOR EVERY

1500 SQ. FT. OF CRAWL SPACE IF THERE

IS AN APPROVED VAPOR RETARDER & REQUIRED OPENINGS ARE PLACED SO AS TO PROVIDE CROSS VENTILATION.

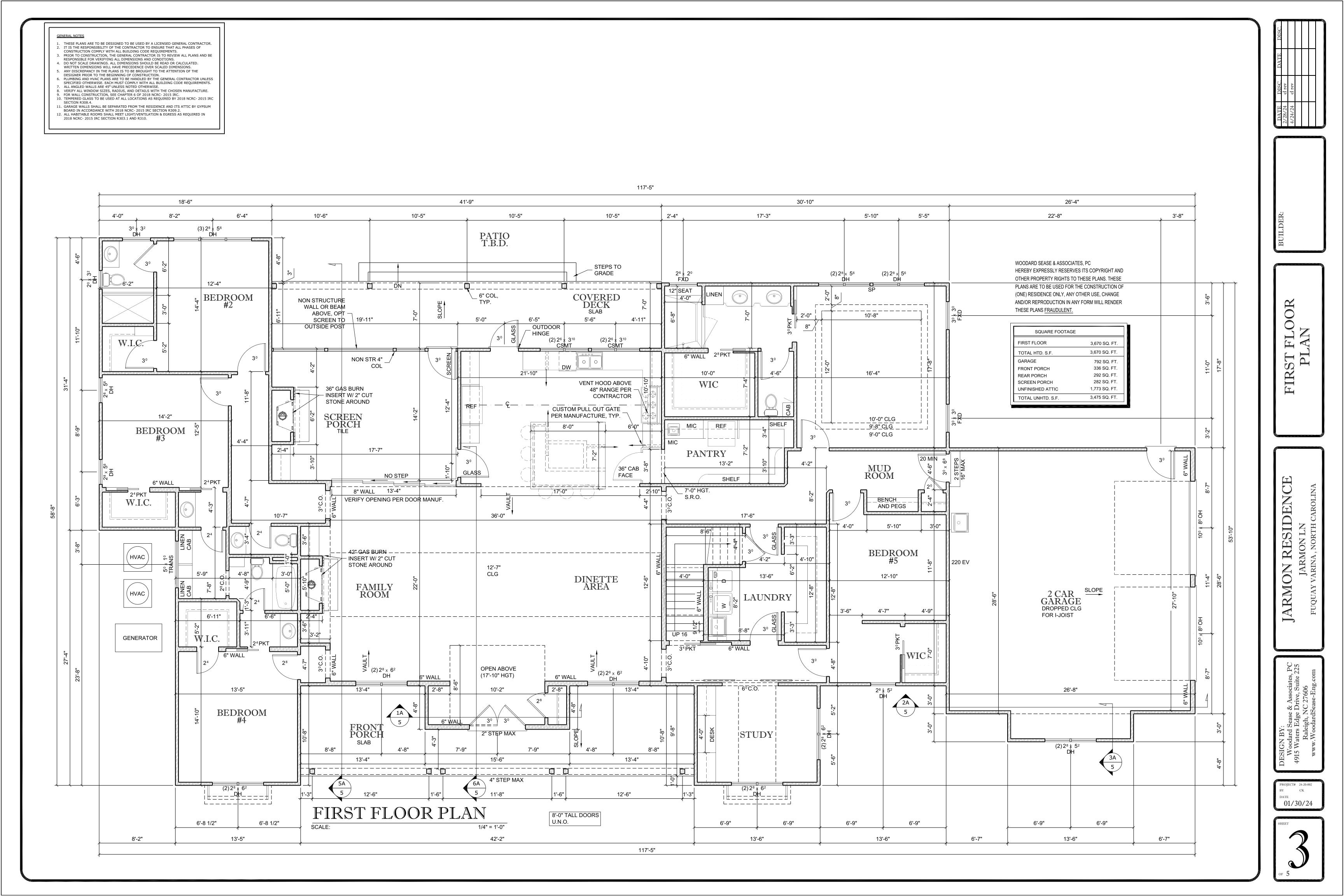
### MEAN ROOF HEIGHT CALCULATIONS

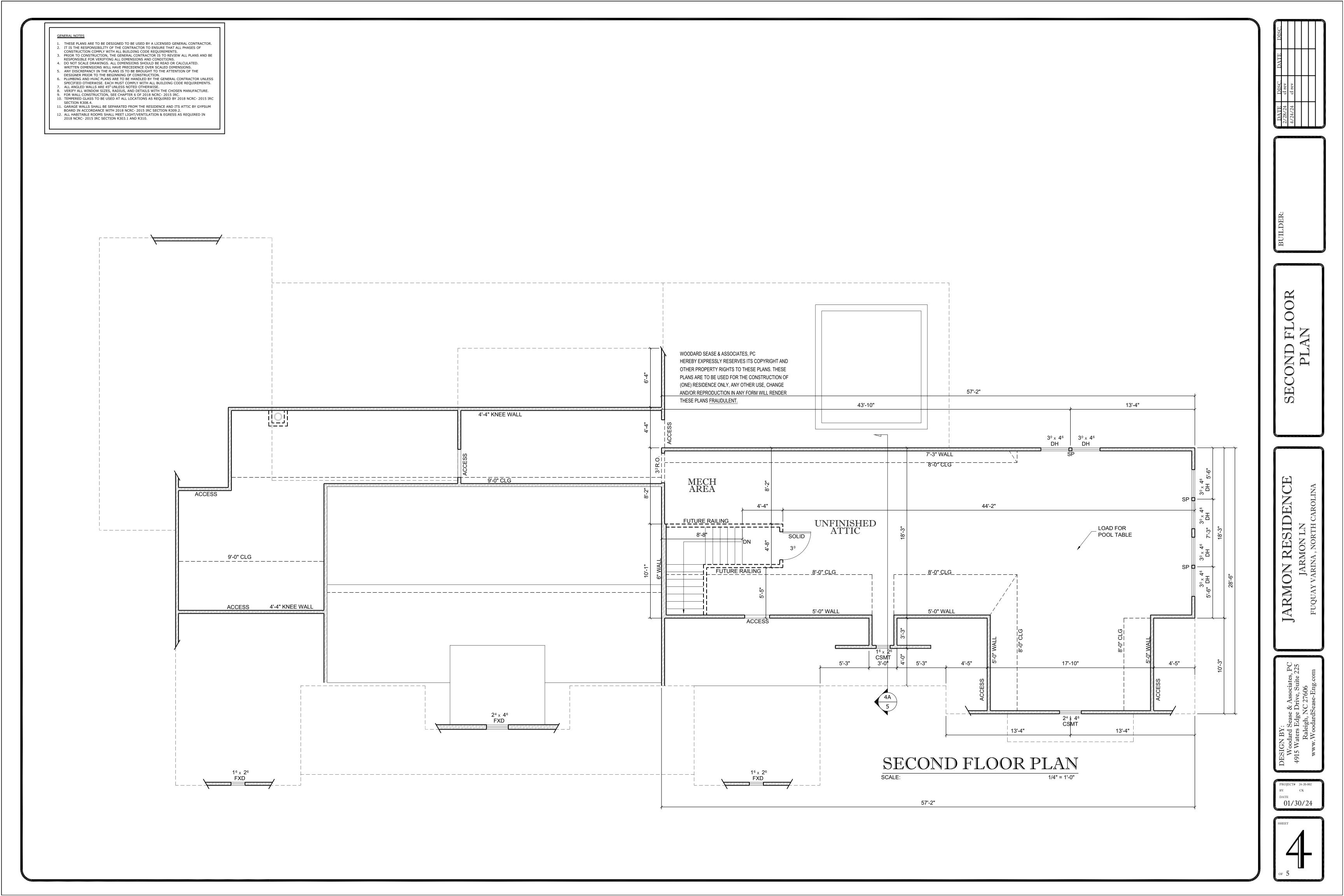
 $\underline{14'-5"}$  EAVE HEIGHT +  $\underline{26'-8"}$  OVERALL HEIGHT =  $\underline{41'-1"}$  TOTAL  $\underline{41'-1"}$  TOTAL / 2 =  $\underline{20'-6.5"}$  MEAN ROOF HEIGHT

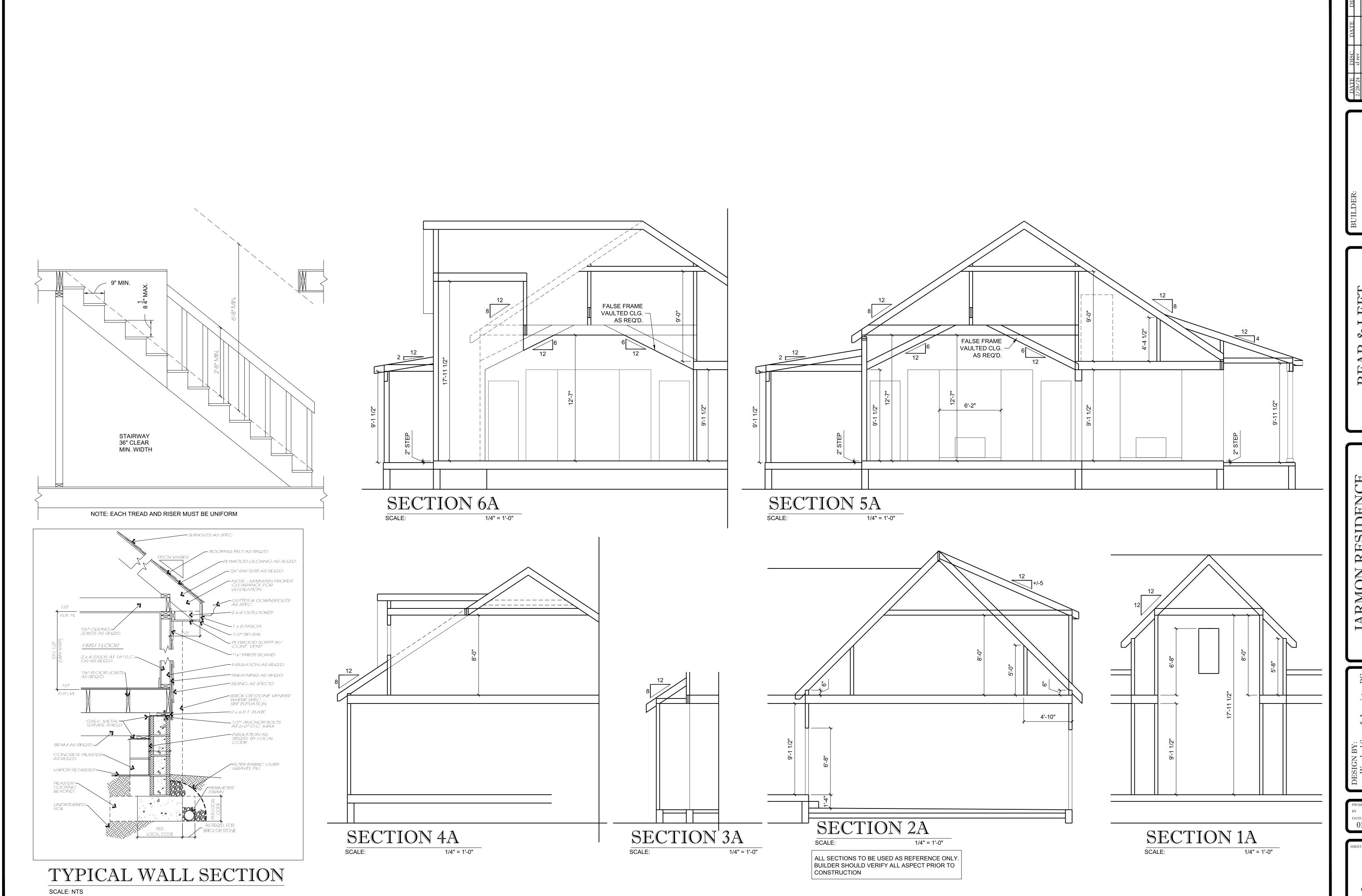












DATE DISC. DATE DISC. 2/28/24 cl rev 4/24/24 cl rev

BOILDE

REAR & LEFT ELEVATION

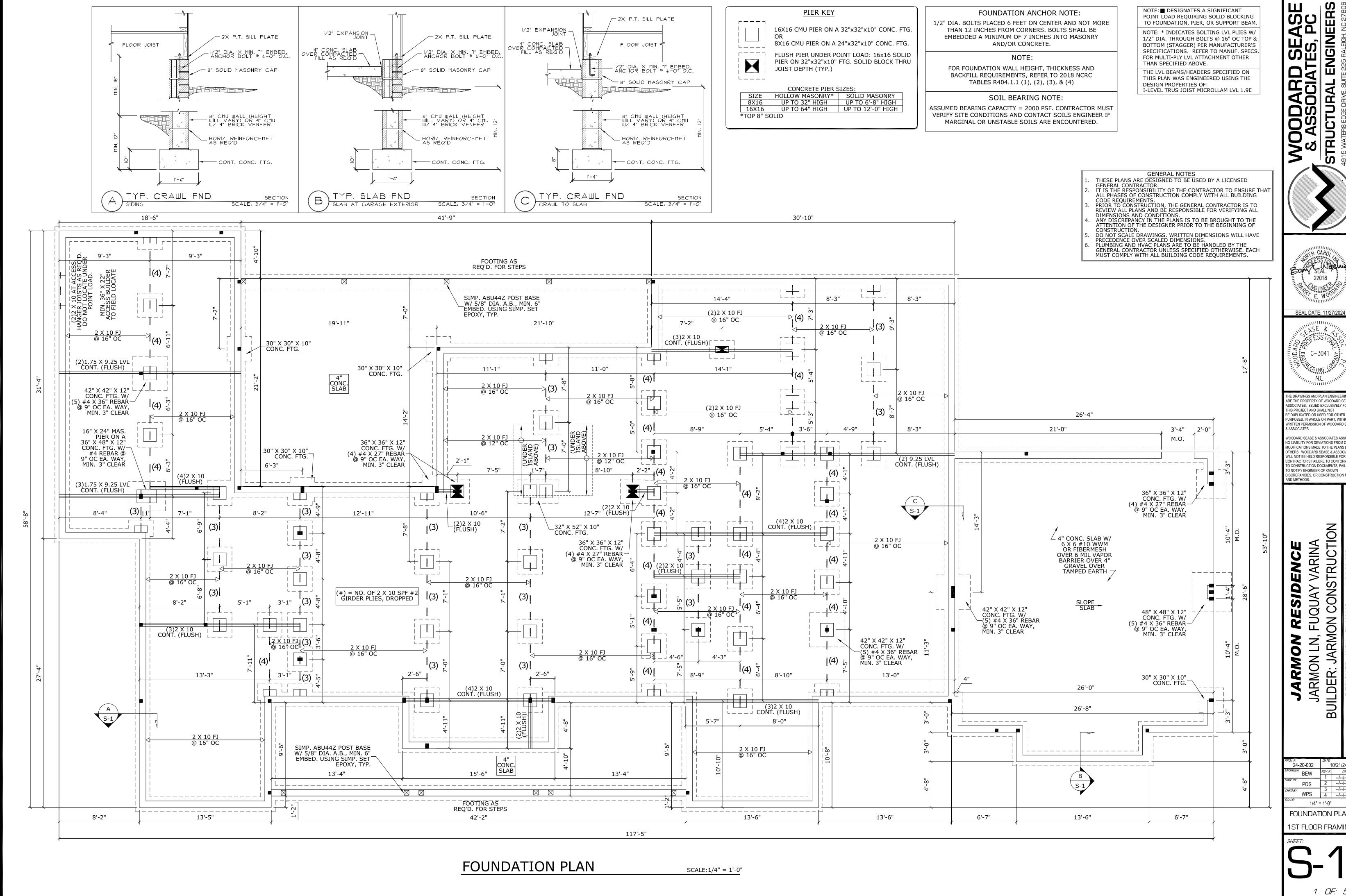
RMON RESIDENCE
JARMON LN
IOHAV VARINA NORTH CAROLINA

Voodard Sease & Associates, PC 5 Waters Edge Drive, Suite 225 Raleigh, NC 27606 ww.WoodardSease-Eng.com

PROJECT# 24-20-002
BY CK
DATE
01/30/24

SHEET

OF 5



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HE DRAWINGS AND PLAN ENGINEERING

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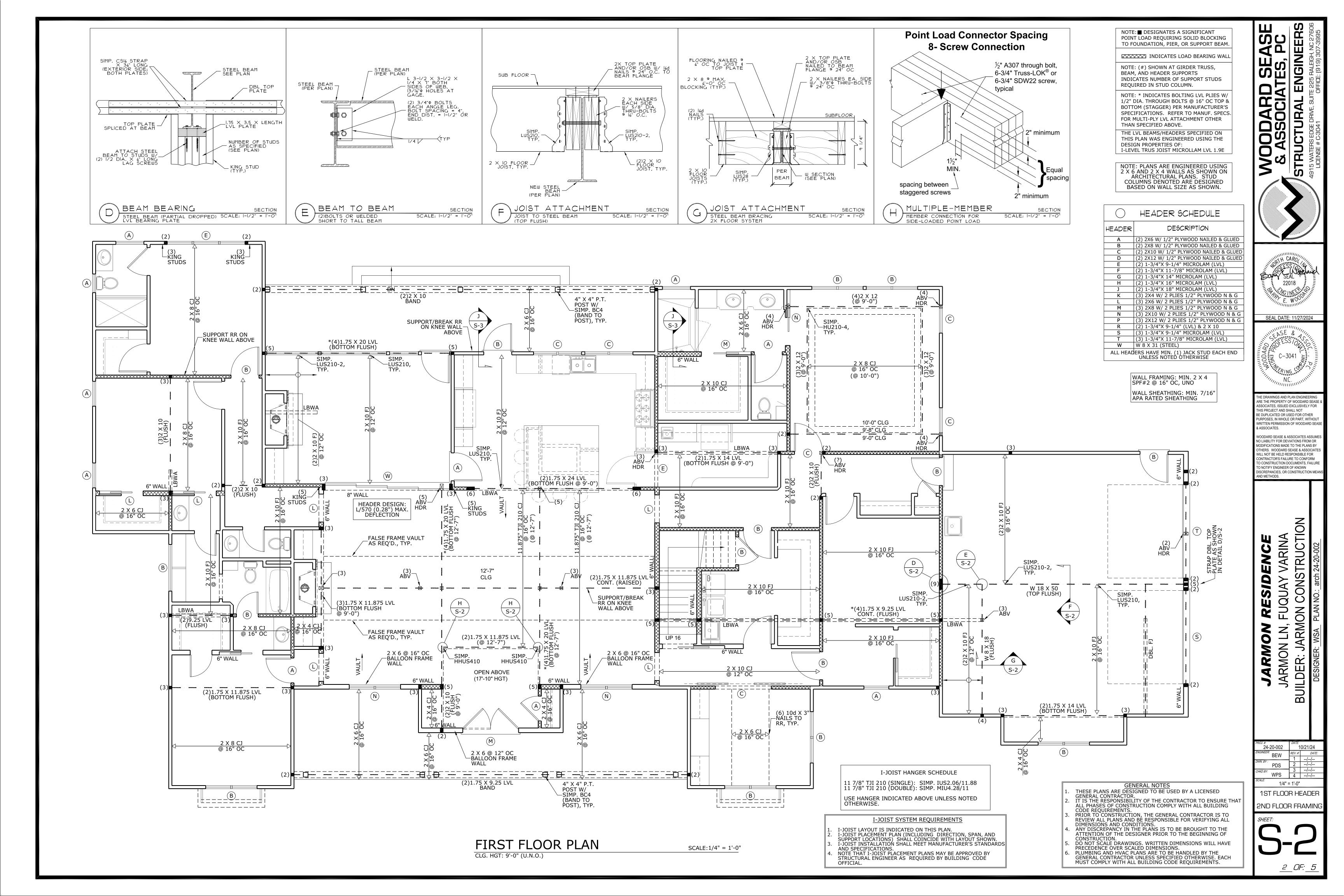
MODIFICATIONS MADE TO THE PLANS BY OTHERS. WOODARD SEASE & ASSOCIATE WILL NOT BE HELD RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CONFORM TO CONSTRUCTION DOCUMENTS. FAILUR TO NOTIFY ENGINEER OF KNOWN DISCREPANCIES, OR CONSTRUCTION MEA

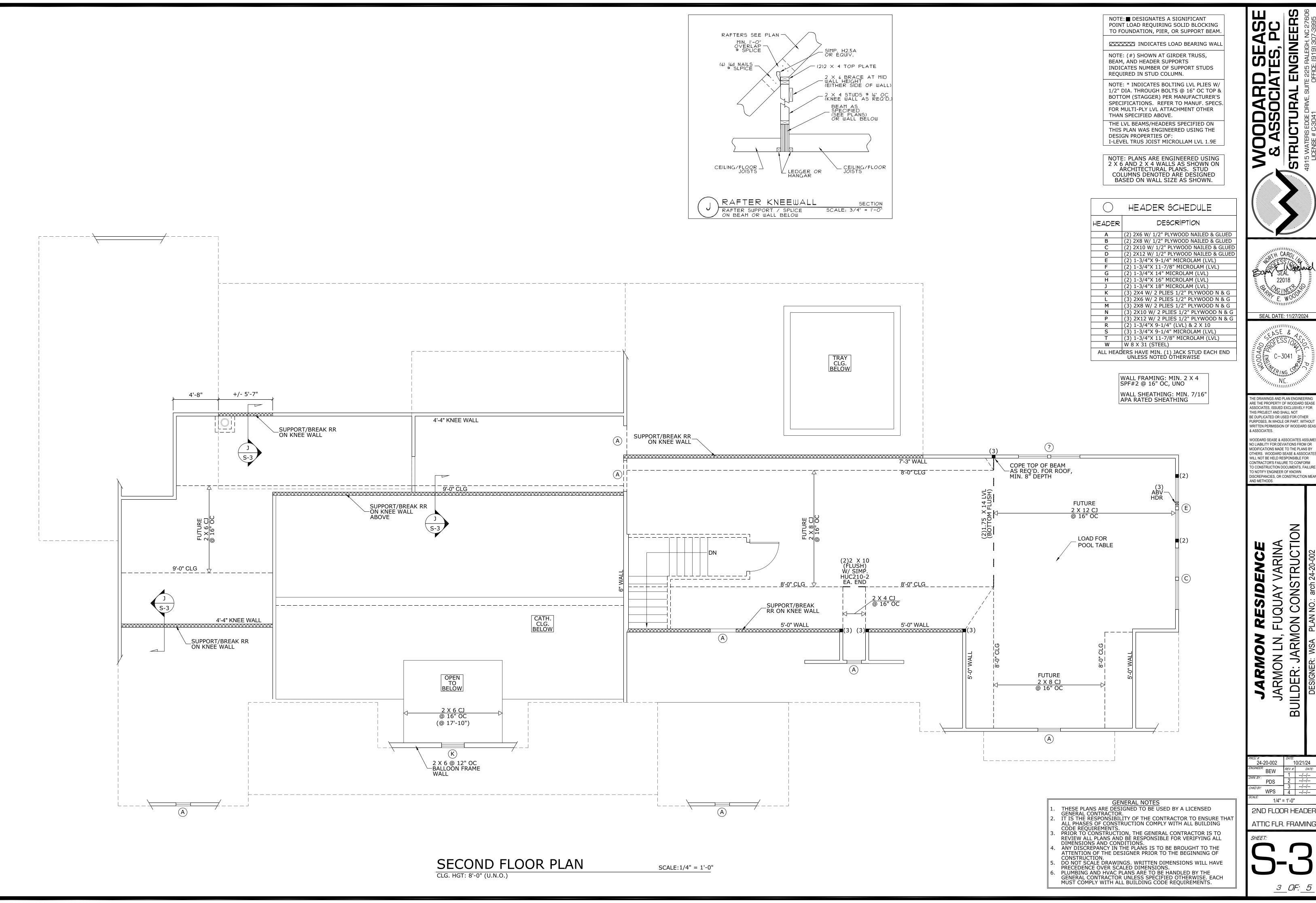
JARMON

WPS 4 --/--/-1/4" = 1'-0"

FOUNDATION PLAN **1ST FLOOR FRAMIN** 

<u> 1 OF: 5</u>





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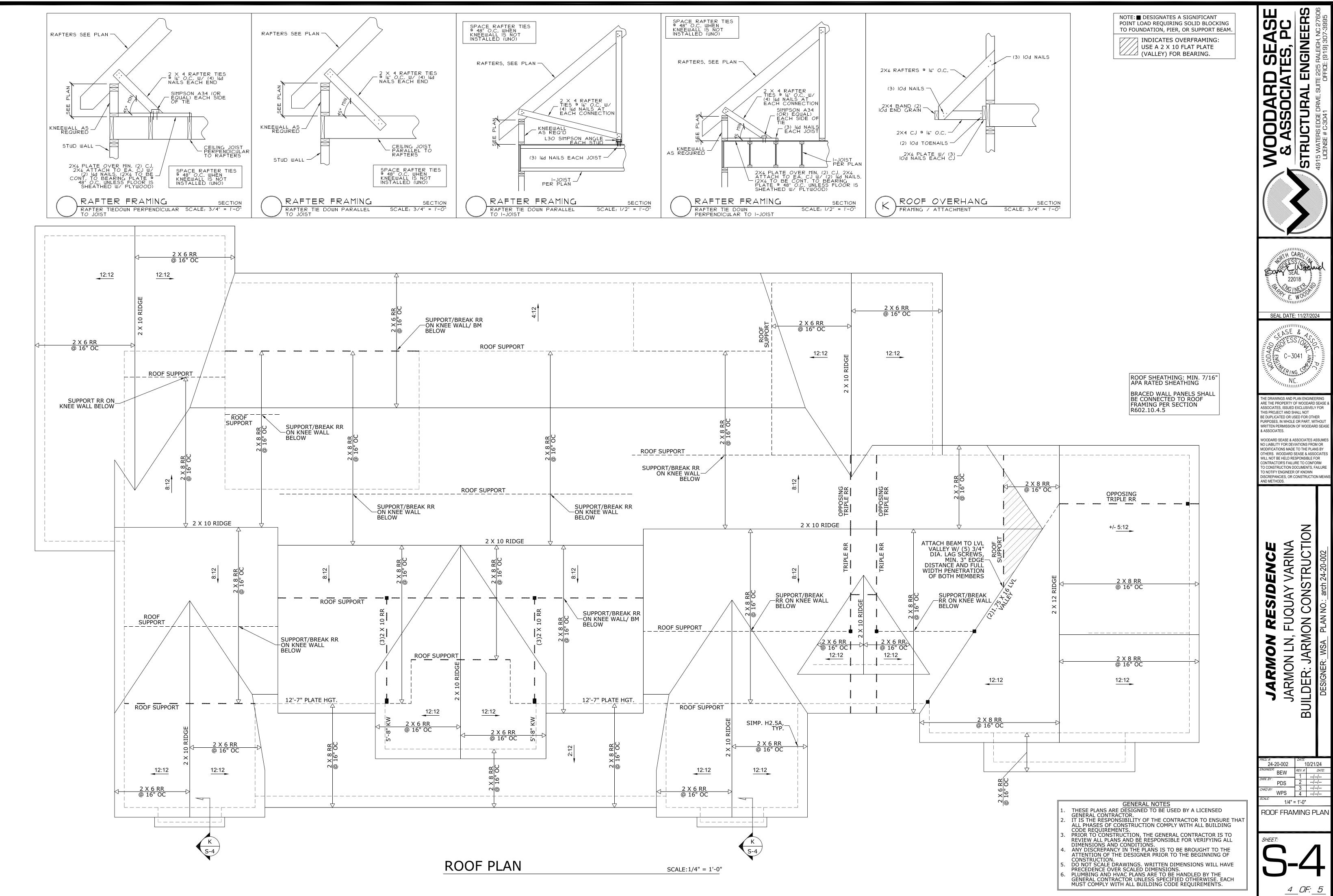
CONTRACTOR'S FAILURE TO CONFORM TO CONSTRUCTION DOCUMENTS FAILURE TO NOTIFY ENGINEER OF KNOWN DISCREPANCIES, OR CONSTRUCTION MEA

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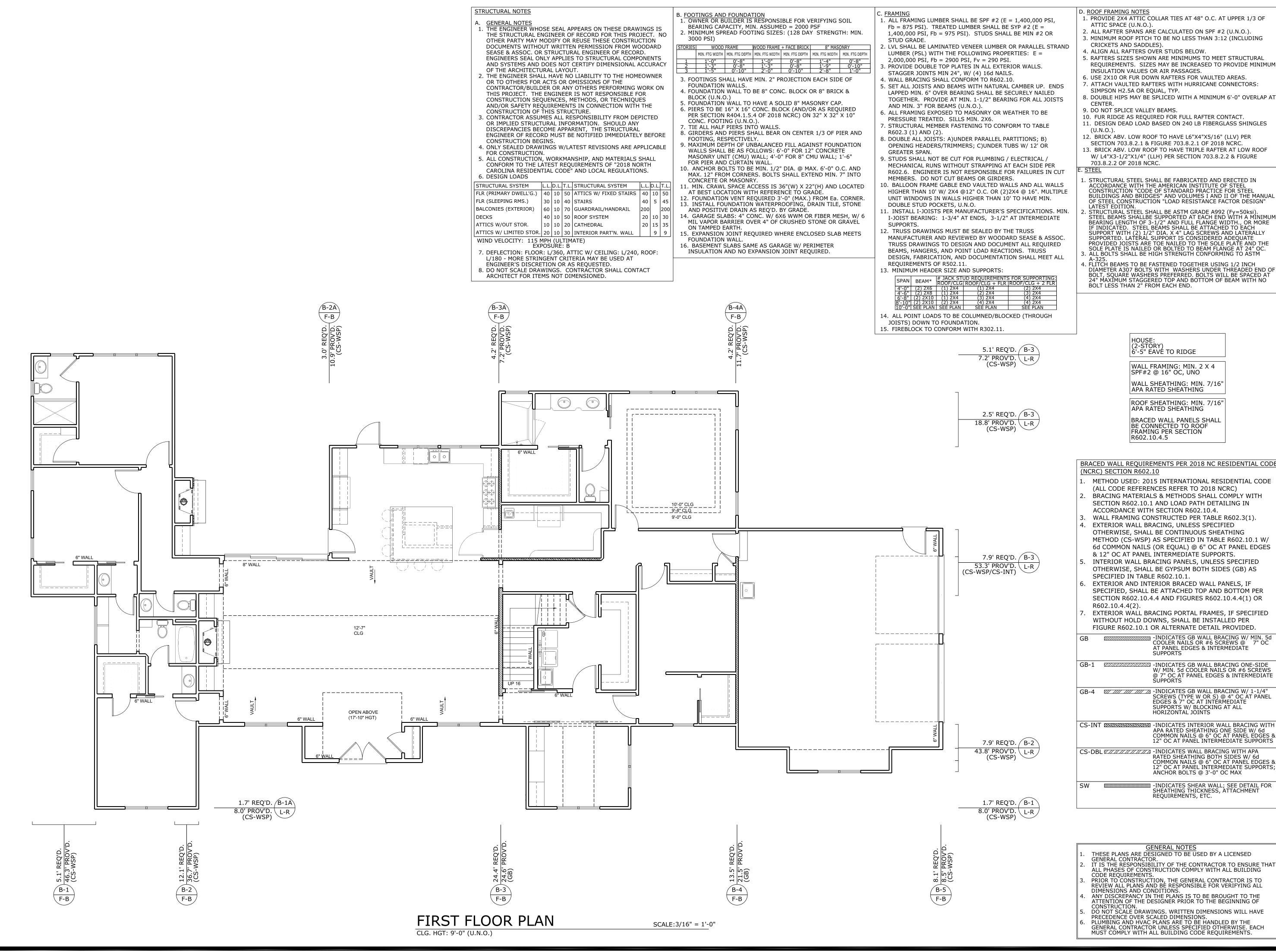
1/4" = 1'-0" 2ND FLOOR HEADE

ATTIC FLR. FRAMINO

3 OF: 5







. ROOF FRAMING NOTES

1. PROVIDE 2X4 ATTIC COLLAR TIES AT 48" O.C. AT UPPER 1/3 OF

ATTIC SPACE (U.N.O.). . ALL RAFTER SPANS ARE CALCULATED ON SPF #2 (U.N.O.).

B. MINIMUM ROOF PITCH TO BE NO LESS THAN 3:12 (INCLUDING CRICKETS AND SADDLES).

4. ALIGN ALL RAFTERS OVER STUDS BELOW. 5. RAFTERS SIZES SHOWN ARE MINIMUMS TO MEET STRUCTURAL

6. USE 2X10 OR FUR DOWN RAFTERS FOR VAULTED AREAS. 7. ATTACH VAULTED RAFTERS WITH HURRICANE CONNECTORS:

SIMPSON H2.5A OR EQUAL, TYP. 8. DOUBLE HIPS MAY BE SPLICED WITH A MINIMUM 6'-0" OVERLAP AT

9. DO NOT SPLICE VALLEY BEAMS.

10. FUR RIDGE AS REQUIRED FOR FULL RAFTER CONTACT. 11. DESIGN DEAD LOAD BASED ON 240 LB FIBERGLASS SHINGLES

12. BRICK ABV. LOW ROOF TO HAVE L6"X4"X5/16" (LLV) PER

SECTION 703.8.2.1 & FIGURE 703.8.2.1 OF 2018 NCRC. 13. BRICK ABV. LOW ROOF TO HAVE TRIPLE RAFTER AT LOW ROOF W/ L4"X3-1/2"X1/4" (LLH) PER SECTION 703.8.2.2 & FIGURE

#### 703.8.2.2 OF 2018 NCRC.

STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "CODE OF STANDARD PRACTICE FOR STEE UILDINGS AND BRIDGES" AND VOLUMES I AND II OF THE MANUAL OF STEEL CONSTRUCTION "LOAD RESISTANCE FACTOR DESIGN"

STRUCTURAL STEEL SHALL BE ASTM GRADE A992 (Fy=50ksi) STEEL BEAMS SHALLBE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3-1/2" AND FULL FLANGE WIDTH., OR MORE F INDICATED. STEEL BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH (2) 1/2" DIA. X 4" LAG SCREWS AND LATERALLY SUPPORTED. LATERAL SUPPORT IS CONSIDERED ADEQUATE

PROVIDED JOISTS ARE TOE NAILED TO THE SOLE PLATE AND THE SOLE PLATE IS NAILED OR BOLTED TO BEAM FLANGE AT 24" OC. ALL BOLTS SHALL BE HIGH STRENGTH CONFORMING TO ASTM

FLITCH BEAMS TO BE FASTENED TOGETHER USING 1/2 INCH DIAMETER A307 BOLTS WITH WASHERS UNDER THREADED END OF BOLT, SQUARE WASHERS PREFERRED. BOLTS WILL BE SPACED AT 24" MAXIMUM STAGGERED TOP AND BOTTOM OF BEAM WITH NO BOLT LESS THAN 2" FROM EACH END.

> 6'-5" EAVÉ TO RIDGE WALL FRAMING: MIN. 2 X 4 SPF#2 @ 16" OC, UNO WALL SHEATHING: MIN. 7/16" APA RATED SHEATHING ROOF SHEATHING: MIN. 7/16" APA RATED SHEATHING BRACED WALL PANELS SHALL BE CONNECTED TO ROOF FRAMING PER SECTION R602.10.4.5

#### BRACED WALL REQUIREMENTS PER 2018 NC RESIDENTIAL CODE (NCRC) SECTION R602.10

1. METHOD USED: 2015 INTERNATIONAL RESIDENTIAL CODE (ALL CODE REFERENCES REFER TO 2018 NCRC)

BRACING MATERIALS & METHODS SHALL COMPLY WITH SECTION R602.10.1 AND LOAD PATH DETAILING IN ACCORDANCE WITH SECTION R602.10.4.

WALL FRAMING CONSTRUCTED PER TABLE R602.3(1) 4. EXTERIOR WALL BRACING, UNLESS SPECIFIED

METHOD (CS-WSP) AS SPECIFIED IN TABLE R602.10.1 W/ 6d COMMON NAILS (OR EQUAL) @ 6" OC AT PANEL EDGES & 12" OC AT PANEL INTERMEDIATE SUPPORTS. INTERIOR WALL BRACING PANELS, UNLESS SPECIFIED

OTHERWISE, SHALL BE GYPSUM BOTH SIDES (GB) AS SPECIFIED IN TABLE R602.10.1.

EXTERIOR AND INTERIOR BRACED WALL PANELS, IF SPECIFIED, SHALL BE ATTACHED TOP AND BOTTOM PER SECTION R602.10.4.4 AND FIGURES R602.10.4.4(1) OR R602.10.4.4(2).

EXTERIOR WALL BRACING PORTAL FRAMES, IF SPECIFIED WITHOUT HOLD DOWNS, SHALL BE INSTALLED PER FIGURE R602.10.1 OR ALTERNATE DETAIL PROVIDED

-INDICATES GB WALL BRACING W/ MIN. 5d COOLER NAILS OR #6 SCREWS @ 7" OC AT PANEL EDGES & INTERMEDIATE

-INDICATES GB WALL BRACING ONE-SIDE W/ MIN. 5d COOLER NAILS OR #6 SCREWS @ 7" OC AT PANEL EDGES & INTERMEDIATE

SCREWS (TYPE W OR S) @ 4" OC AT PANEL EDGES & 7" OC AT INTERMEDIATE SUPPORTS W/ BLOCKING AT ALL

HORIZONTAL JOINTS

12" OC AT PANEL INTERMEDIATE SUPPORTS

COMMON NAILS @ 6" OC AT PANEL EDGES & 12" OC AT PANEL INTERMEDIATE SUPPORTS; ANCHOR BOLTS @ 3'-0" OC MAX

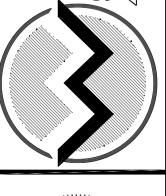
-INDICATES SHEAR WALL; SEE DETAIL FOR SHEATHING THICKNESS, ATTACHMENT REQUIREMENTS, ETC.

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22018 SEAL DATE: 11/27/2024

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> VARINA FUQUA

SID JARMON  $\overline{\Box}$ 

BEW PDS WPS 4 --/--/-

1/4" = 1'-0" STRUCTURAL NOTE

**BRACED WALLS** 

5 OF: 5