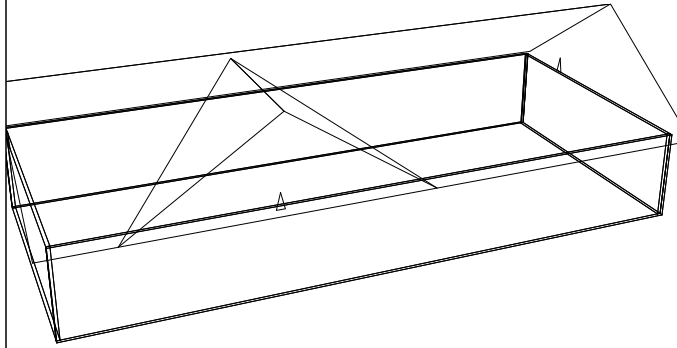
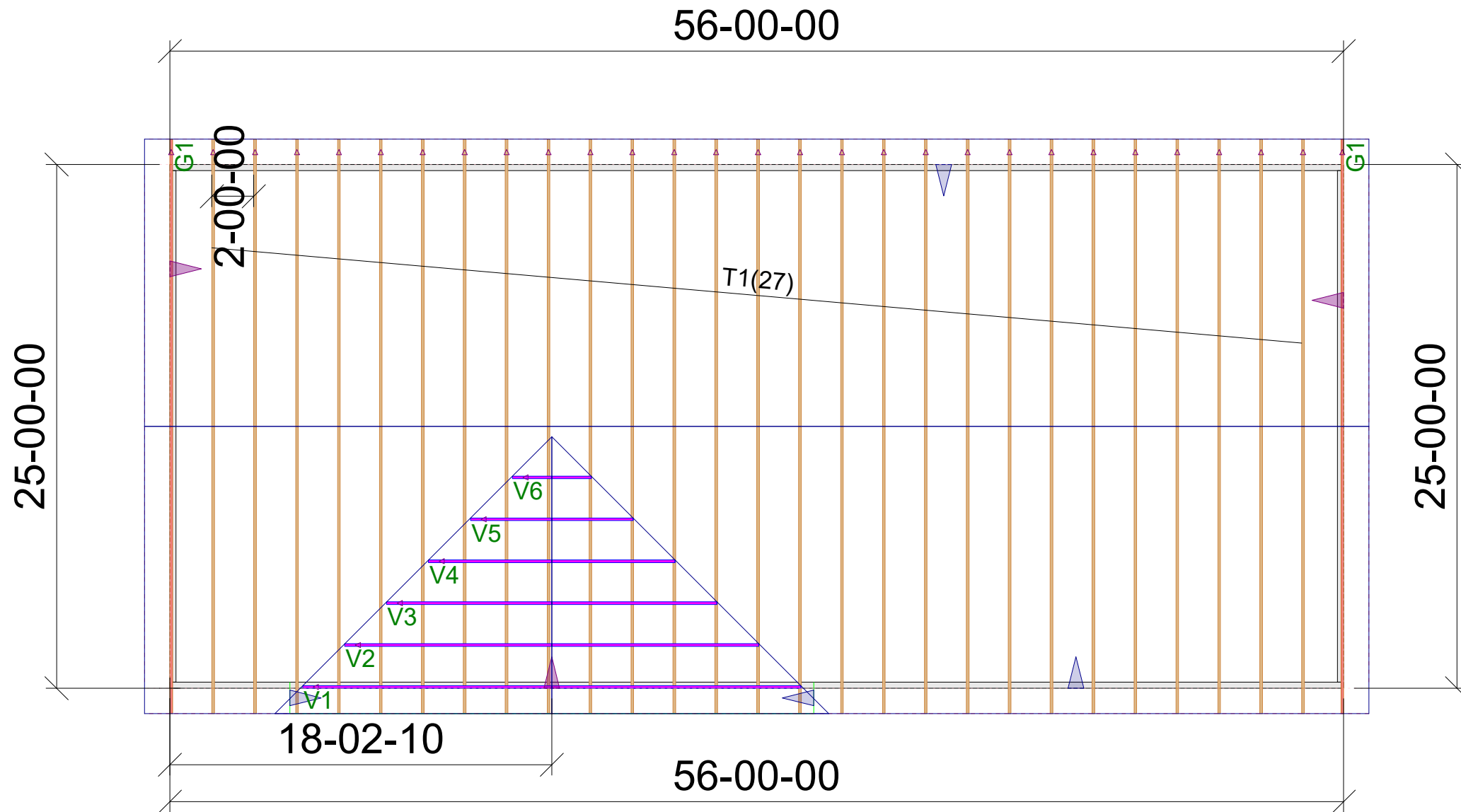


Phone: 910.567.6293 Toll Free: 1-888-529-145  
Fax: 910.567.5008  
2300 Ernest Williams Road Autryville, N.C. 28318



Scale: NTS

These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss structure including headers, beams, walls, and columns is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D Onifrio Drive, Madison, WI 53179.

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

REVIEWED BY: APPROVED BY:

DATE:



Building Code:IRC-2018\120 Wind

Loading:20-10-10

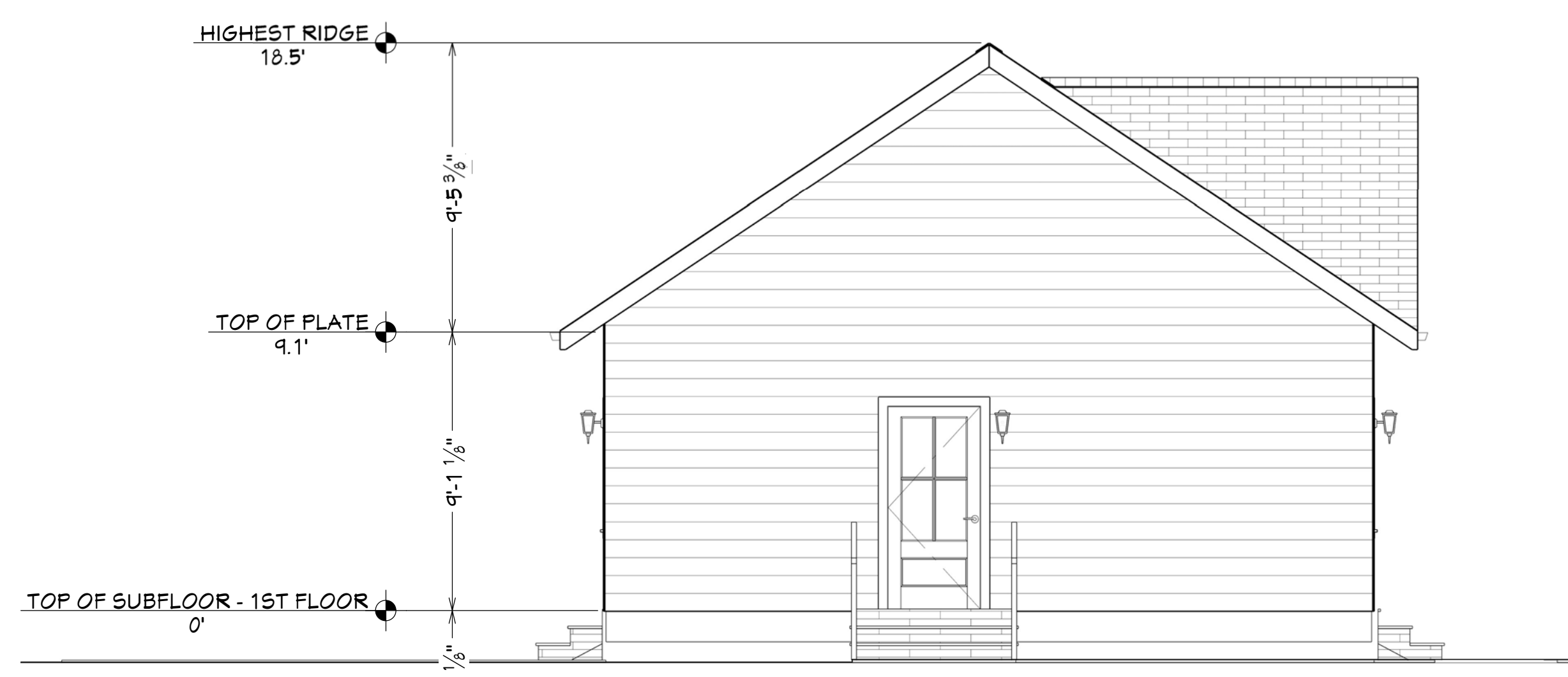
Sales Rep:

Designer:

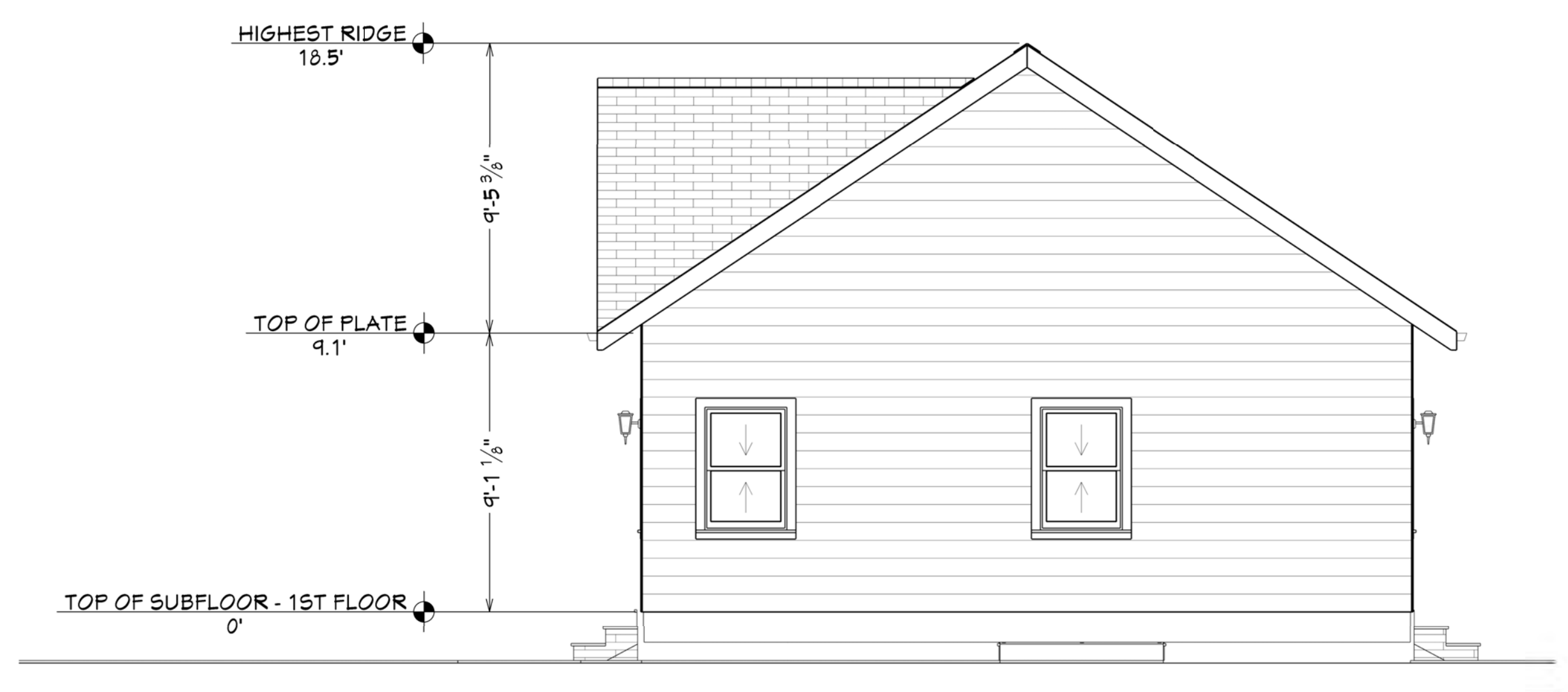




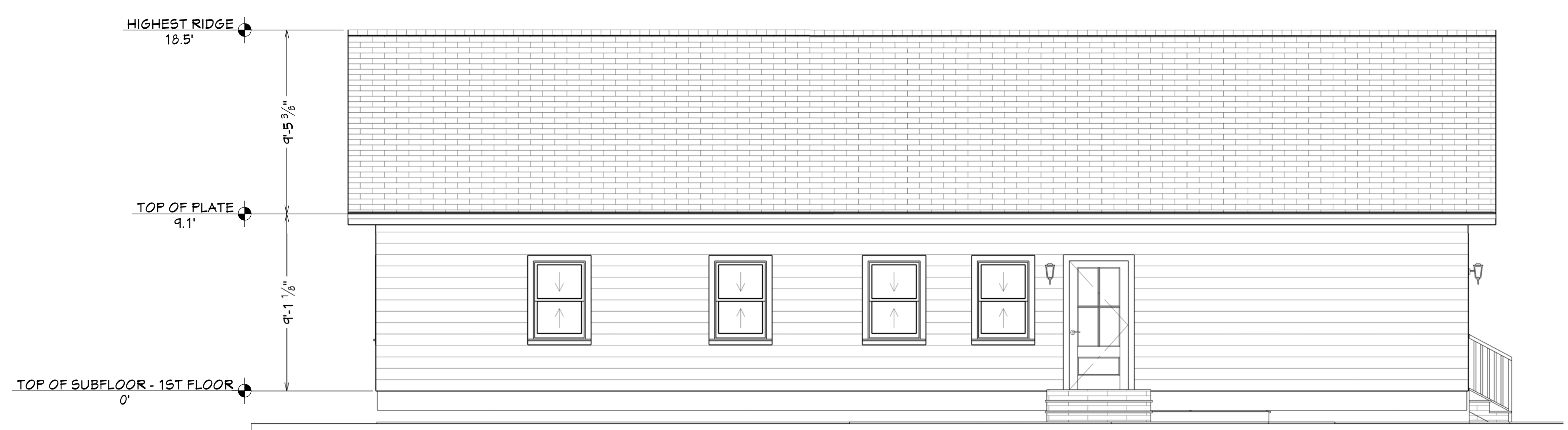
E1 EXTERIOR ELEVATION FRONT  
1/4 IN = 1 FT



E2 EXTERIOR ELEVATION LEFT  
1/4 IN = 1 FT



E4 EXTERIOR ELEVATION RIGHT  
1/4 IN = 1 FT



E3 EXTERIOR ELEVATION BACK  
1/4 IN = 1 FT

**ATTIC VENTILATION:**  
THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1 TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE 1 TO 300, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.  
GROSS ATTIC AREA TO BE VENTILATED 1899 SQ.FT.  
1899/150 = 12.66 SQ.FT. NET FREE AREA

NOTICE TO CONTRACTOR  
All construction must comply with current NC Building Codes and is subject to field inspection and verification.  
**APPROVED**  
Limited building only review  
Permit holder responsible for full compliance with the code  
11/18/2025

Harnett County  
NORTH CAROLINA

SEE NOTES NEXT  
PAGE

THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

SQUARE FOOTAGE:  
FIRST FLOOR= 1400  
TOTAL HEATED= 1400

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**WOMBLE PROJECT**  
602 Wondertown Drive Lot 2  
Erwin, NC 28339



DATE:  
10/28/2025

DRAWINGS PROVIDED BY:  
W. BRYANT POPE  
10 J LEE RD.  
BENSON, NC 27504  
910-900-5251

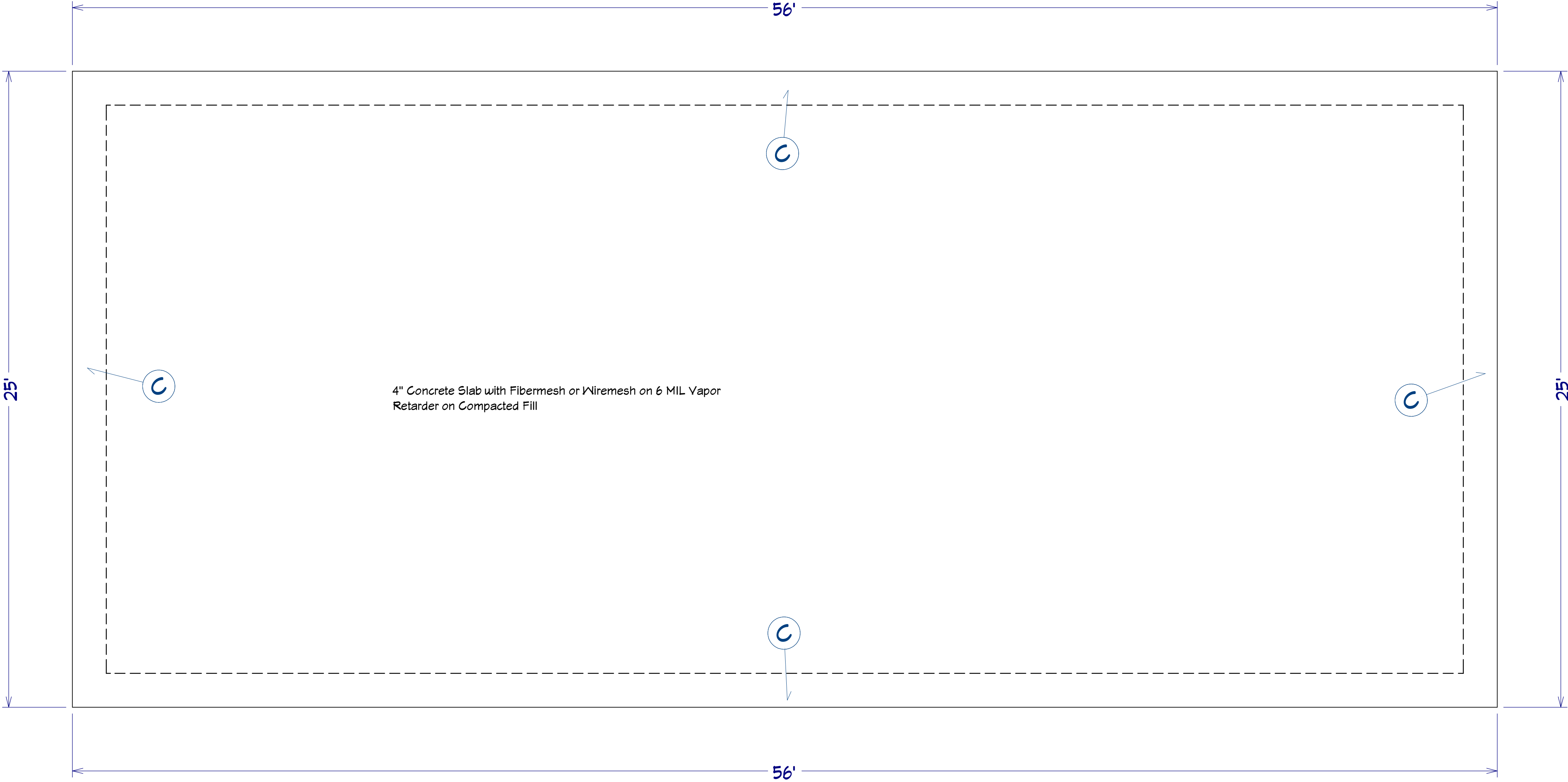
SHEET:  
P-1



TOTAL HEATED= 1400

Windows shall be 5/2  
min height for  
bedroom egress





**ANCHOR BOLTS**

ANCHOR BOLTS TO BE PLACED WITHIN 12" OF EVERY CORNER AND FROM EVERY SPLICE AND AT 6'-0" O.C. WITH 7" MIN. IN CONC.

**Monoslab Foundation Plan**

3/8 IN = FT

REFER TO "SD" SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

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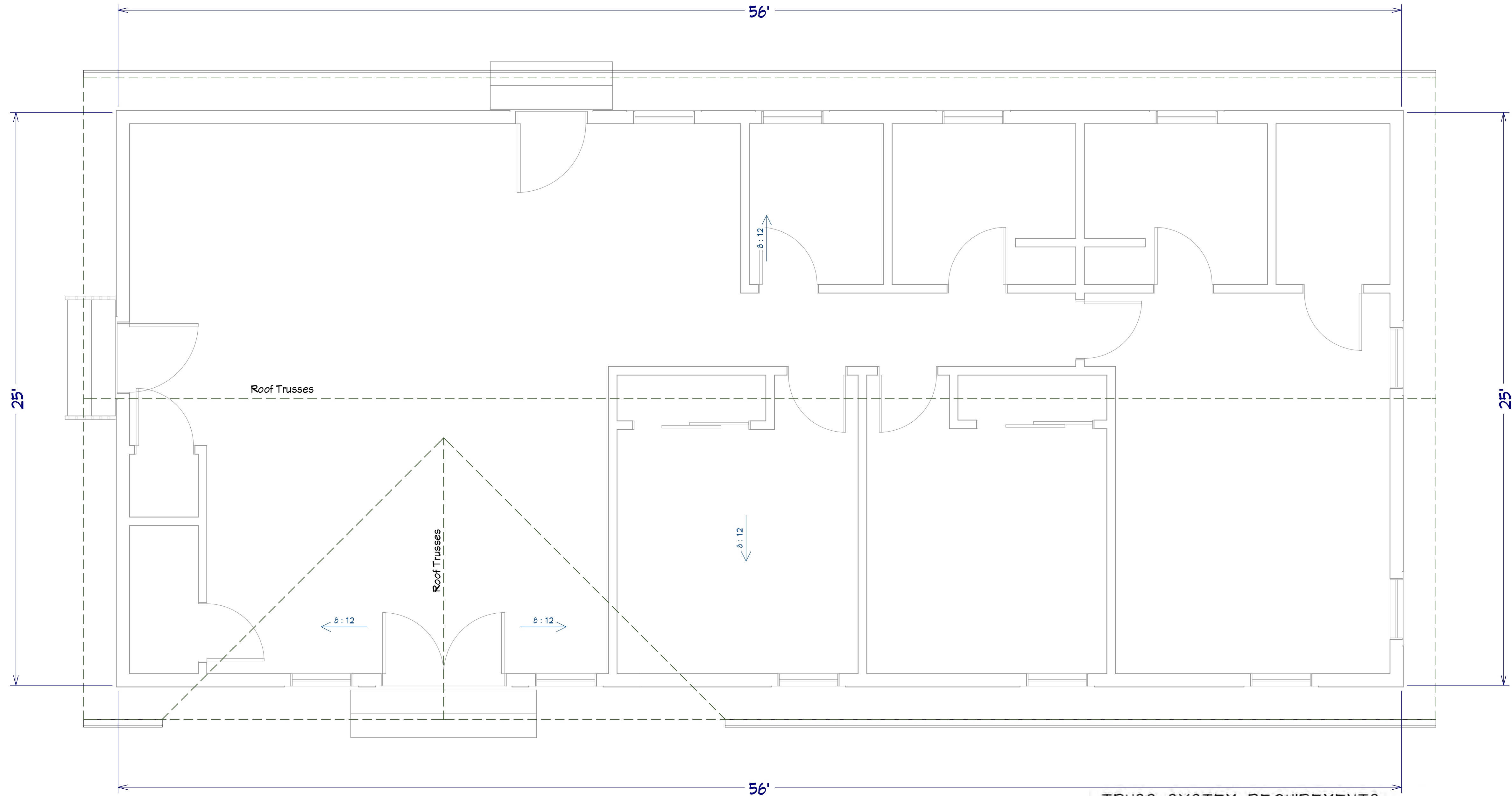


DATE:  
10/28/2025

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SHEET:





**ROOF PLAN VIEW**  
3/8 IN = 1 FT

**TRUSS SYSTEM REQUIREMENTS**

NC (2018 NCRC): Wind: 115-120 MPH

1. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH ROOF TRUSS LAYOUTS AND SEALED PROFILES PROVIDED BY THE ROOF TRUSS MANUFACTURER. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH THE ROOF TRUSS MANUFACTURER
2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

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TOTAL HEATED= 1400

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SHEET:





FRONT - 3D



Front - 3D



BACK/LEFT SIDE - 3D

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SHEET:





3D Birds Eye Floor Plan

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W. BRYANT POPE  
10 J LEE RD.  
BENSON, NC 27504  
910-900-5251

SHEET:





Interior Kitchen - 3D



Interior Dining Room - 3D



Interior Living Room - 3D



Interior Primary Bedroom - 3D

THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

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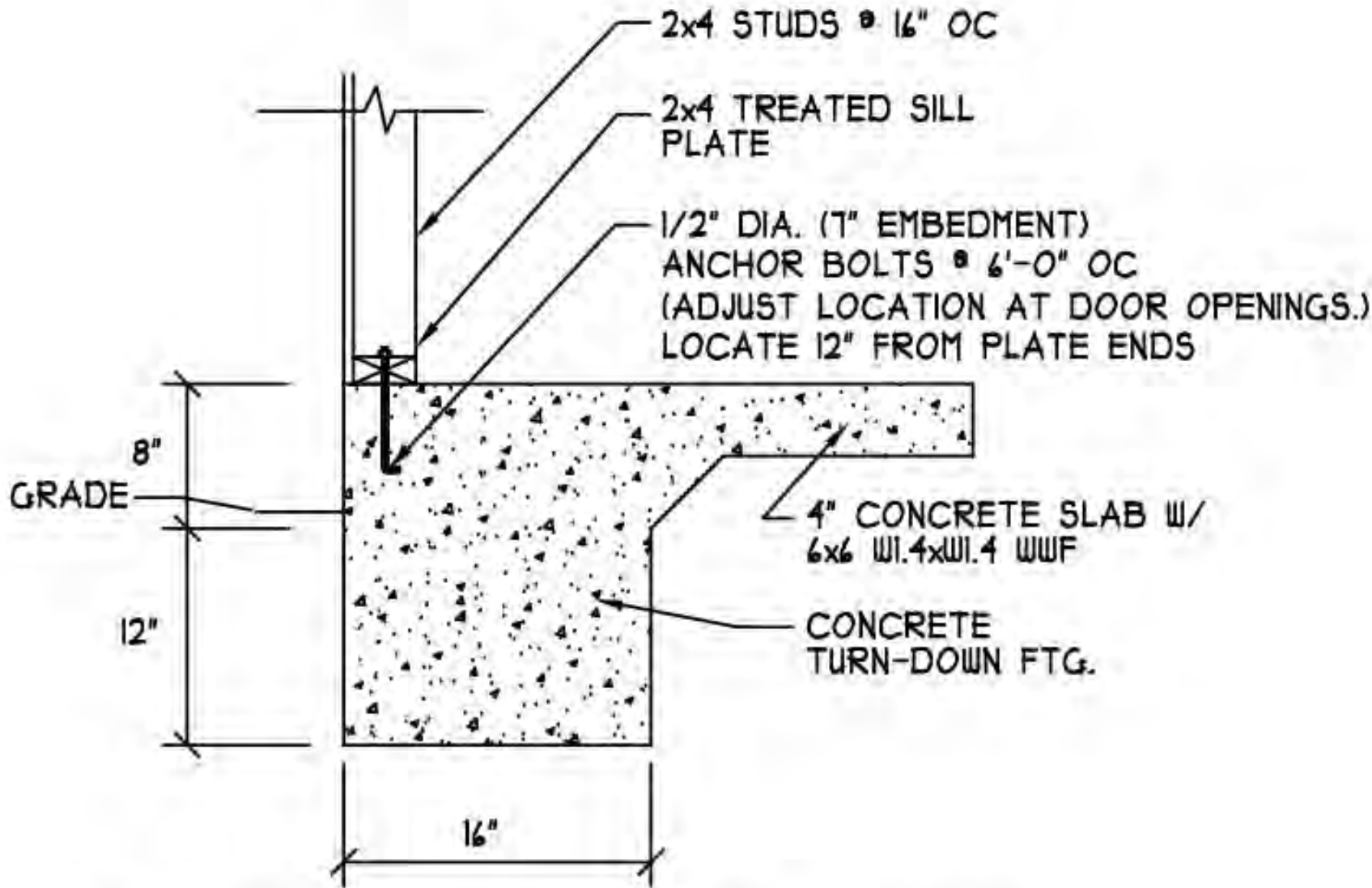
DRAWINGS PROVIDED BY:  
W. BRYANT POPE  
10 J LEE RD.  
BENSON, NC 27504  
910-900-5251

SHEET:



STRUCTURAL NOTES

- 1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION, PLUS ALL LOCAL CODES AND REGULATIONS. THE STRUCTURAL ENGINEER OR DESIGNER IS NOT RESPONSIBLE FOR, AND WILL NOT HAVE CONTROL OF, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, OR FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE CONSTRUCTION WORK. NOR WILL THE ENGINEER OR DESIGNER BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE CONSTRUCTION WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. "CONSTRUCTION REVIEW" SERVICES ARE NOT PART OF OUR CONTRACT. ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.
- 2) DESIGN LOADS (R301.4)
- |                                 | LIVE LOAD<br>(PSF) | DEAD LOAD<br>(PSF) | DEFLECTION<br>(LL) |
|---------------------------------|--------------------|--------------------|--------------------|
| ROOMS OTHER THAN SLEEPING ROOMS | 40                 | 10                 | L/360              |
| SLEEPING ROOMS                  | 30                 | 10                 | L/360              |
| ATTIC WITH PERMANENT STAIR      | 40                 | 10                 | L/360              |
| ATTIC WITH OUT PERMANENT STAIR  | 20                 | 10                 | L/360              |
| ATTIC WITH OUT STORAGE          | 10                 | 10                 | L/240              |
| STAIRS                          | 40                 | --                 | L/360              |
| EXTERIOR BALCONIES              | 40                 | 10                 | L/360              |
| DECKS                           | 40                 | 10                 | L/360              |
| GUARDRAILS AND HANDRAILS        | 200                | --                 | ----               |
| PASSENGER VEHICLE GARAGES       | 50                 | 10                 | L/360              |
| FIRE ESCAPES                    | 40                 | 10                 | L/360              |
| SNOW                            | 20                 | --                 | ----               |
- WIND LOAD (BASED ON 115/120 MPH WIND VELOCITY & EXPOSURE B)
- 3) WALL BRACING: BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO SECTION R602.10.3. THE AMOUNT AND LOCATION OF BRACING SHALL COMPLY WITH TABLE R602.10.1. THE LENGTH OF BRACED PANELS SHALL BE DETERMINED BY SECTION R602.10.4. LATERAL BRACING SHALL BE SATISFIED PER METHOD 3 BY CONTINUOUSLY SHEATHING WALLS WITH STRUCTURAL SHEATHING PER SECTION R602.10.3. NOTE THAT ANY SPECIFIC BRACED WALL DETAIL SHALL BE INSTALLED AS SPECIFIED.
- 4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND PLACED IN ACCORDANCE WITH ACI STANDARDS. ALL SAMPLES FOR PUMPING SHALL BE TAKEN FROM THE EXIT END OF THE PUMP.
- 5) ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTUAL ENGINEER IF UNSATISFACTORY SUBSURFACE CONDITIONS ARE ENCOUNTERED. THE SURFACE AREA ADJACENT TO THE FOUNDATION WALL SHALL BE PROVIDED WITH ADEQUATE DRAINAGE, AND SHALL BE GRADED SO AS TO DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.
- 6) ALL FRAMING LUMBER SHALL BE SPF #2 (Fb = 875 PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP # 2 (Fb=975 PSI). PLATE MATERIAL MAY BE SPF # 3 OR SYP #3 (Fcl(perp) = 425 PSI - MIN).
- 7) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS:  
(1) 2x4 STUD COLUMN FOR 6'-0" MAX. BEAM SPAN (UNO), (2) 2X4 STUDS FOR BEAM SPAN GREATER THAN 6'-0" (UNO).
- 8) L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 PSI, Fv=285 PSI, E=1.9x10<sup>6</sup> PSI. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0x10<sup>6</sup> PSI. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55x10<sup>6</sup> PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- 9) ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH ANY SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURE'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH DESIGNER OR ENGINEER.
- 10) ALL STRUCTURAL STEEL SHALL BE ASTM A-36. STEEL BEAMS SHALL BE SUPPORTED AT EACH END WITH A MINIMUM BEARING LENGTH OF 3 1/2" INCHES AND FULL FLANGE WIDTH. PROVIDE SOLID BEARING FROM BEAM SUPPORT TO FOUNDATION. BEAMS SHALL BE ATTACHED TO EACH SUPPORT WITH TWO LAG SCREWS (1/2" DIAMETER x 4" LONG). LATERAL SUPPORT IS CONSIDERED ADEQUATE PROVIDED THE JOIST ARE TOE NAILED TO THE SOLE PLATE, AND SOLE PLATE IS NAILED OR BOLTED TO THE BEAM FLANGE @ 48" O.C. . ALL STEEL TUBING SHALL BE ASTM A500.
- 11) REBAR SHALL BE DEFORMED STEEL, ASTM#65, GRADE 60.
- 12) FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A307) WITH WASHERS PLACED UNDER THE THREADED END OF BOLT. BOLTS SHALL BE SPACED AT 24" O.C. (MAX), AND STAGGERED AT THE TOP AND BOTTOM OF BEAM (2" EDGE DISTANCE), WITH 2 BOLTS LOCATED AT 6" FROM EACH END.
- 13) BRICK LINTELS SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0" (UNO).
- 14) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF.
- 15) THE POSITIVE AND NEGATIVE DESIGN PRESSURES REQUIRED FOR ANY ROOF OR WALL CLADDING APPLICATION NOT SPECIFICALLY ADDRESSED IN THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION SHALL BE AS FOLLOWS:
- ROOF:
- 45.4 PSF - 2.25:12 PITCH OR LESS  
34.8 PSF - 2.25:12 TO 1:12 PITCH  
21 PSF - 1:12 TO 12:12 PITCH
- WALLS:
- 24.1 PSF - WALLS



© TURN DOWN SLAB FOOTING  
NT5

THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

SQUARE FOOTAGE:  
FIRST FLOOR= 1400

TOTAL HEATED= 1400

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W. BRYANT POPE  
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910-900-5251

SHEET:



2018 NC Residential Code

Table R602.7.5 Minimum Number of Full Height King Studs at Each End of Exterior Walls. (191210 Item B-7)

**TABLE R602.7.5**  
**MINIMUM NUMBER OF FULL HEIGHT KING STUDS**  
**AT EACH END OF HEADERS IN EXTERIOR WALLS**

| <b>HEADER SPAN<br/>(feet)</b> | <b>MAXIMUM STUD SPACING (inches)</b><br><b>[per Table R602.3(5)]</b> |           |
|-------------------------------|----------------------------------------------------------------------|-----------|
|                               | <b>16</b>                                                            | <b>24</b> |
| $\leq 3'$                     | 1                                                                    | 1         |
| 4'                            | 2                                                                    | 1         |
| 8'                            | 3                                                                    | 2         |
| 12'                           | 5                                                                    | 3         |
| 16'                           | 6                                                                    | 4         |

| <b><u>HEADER SPAN (feet)</u></b> | <b><u>MINIMUM NUMBER OF<br/>FULL HEIGHT STUDS (King)</u></b> |
|----------------------------------|--------------------------------------------------------------|
| <u>Up to 3'</u>                  | <u>1</u>                                                     |
| <u>&gt;3' to 6'</u>              | <u>2</u>                                                     |
| <u>&gt;6' to 9'</u>              | <u>3</u>                                                     |
| <u>&gt;9' to 12'</u>             | <u>4</u>                                                     |
| <u>&gt;12' to 15'</u>            | <u>5</u>                                                     |

The delayed effective date of this Rule is January 1, 2021.

The Statutory authority for Rule-making is G. S. 143-136; 143-138.

March 14, 2023