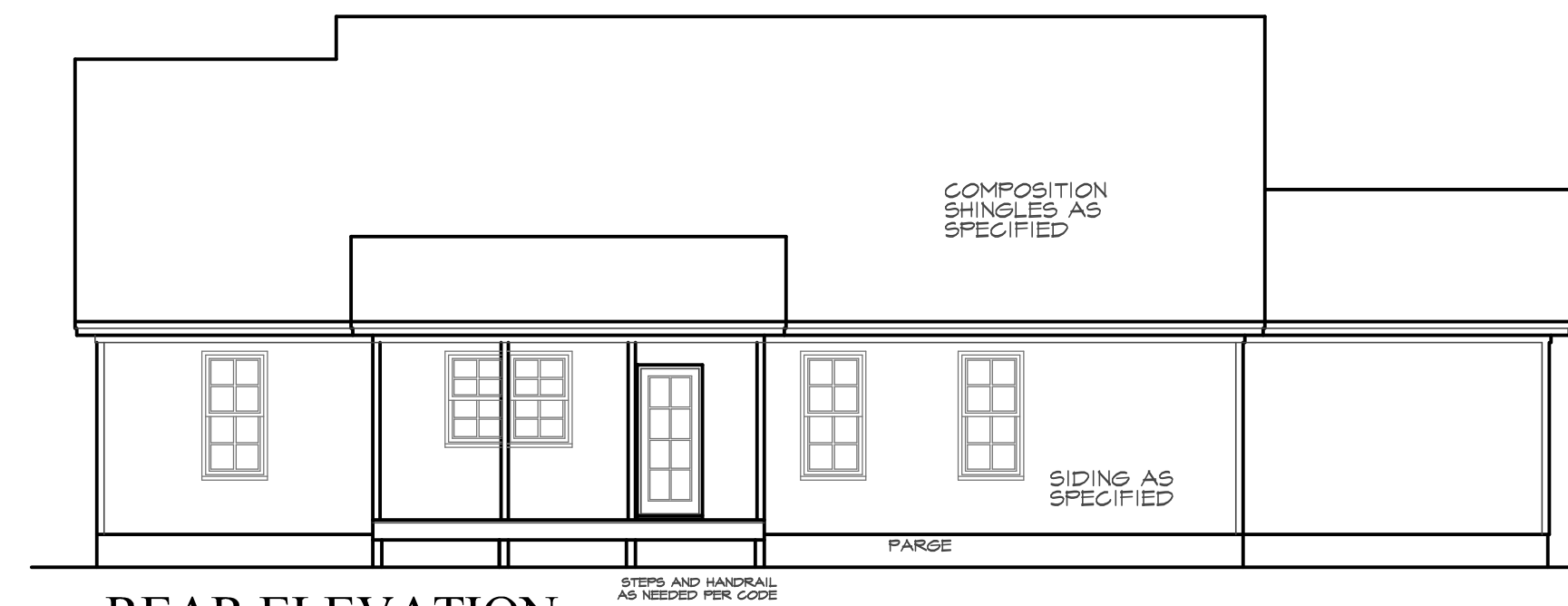




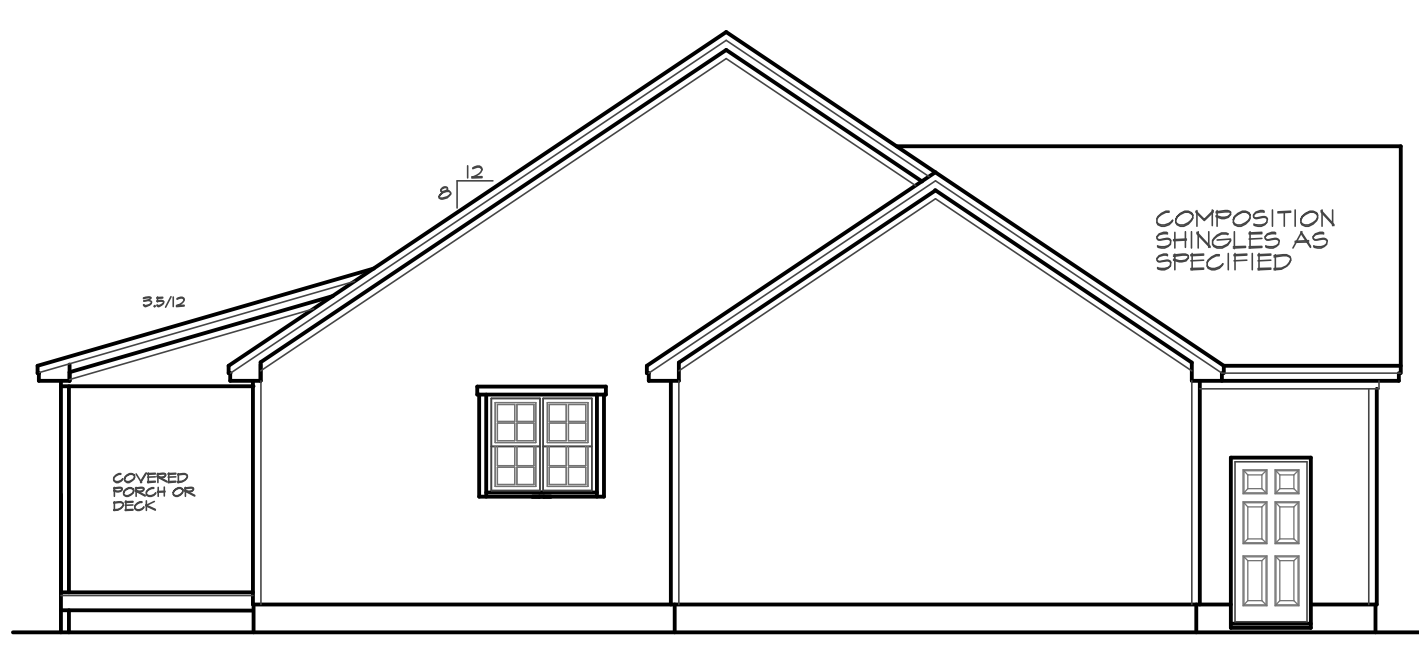
FRONT ELEVATION
SCALE 1/4" = 1'0"

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 THE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.

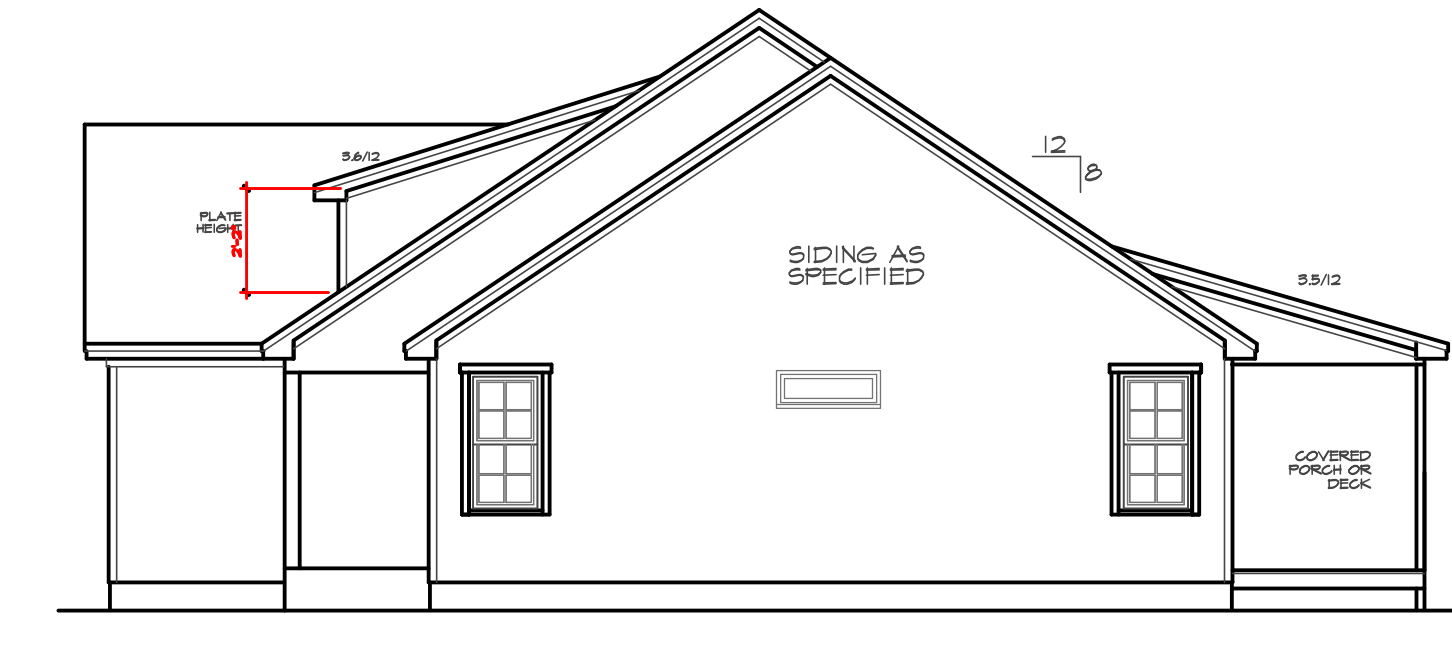
ATTIC VENTILATION
GROSS ATTIC AREA TO BE VENTILATED - 2324 SQ. FT.
2324/300 = 7.76 SQ. FT. NET FREE AREA
50% OF VENTING MUST BE 3 FEET ABOVE THE EAVE OR SOFFIT VENTS



REAR ELEVATION



LEFT SIDE ELEVATION



RIGHT SIDE ELEVATION

NRH 1656-1 3-CAR GARAGE
GARAGE LEFT

THIS PLAN DESIGNED UNDER NORTH CAROLINA
RESIDENTIAL CODE 2018 EDITION (2021 IRC)
NO. (2018 NCRC) / REV. 118 - 120 mph IF IN 150 MPH ZONE FOLLOW ALL
APPLICABLE CODES



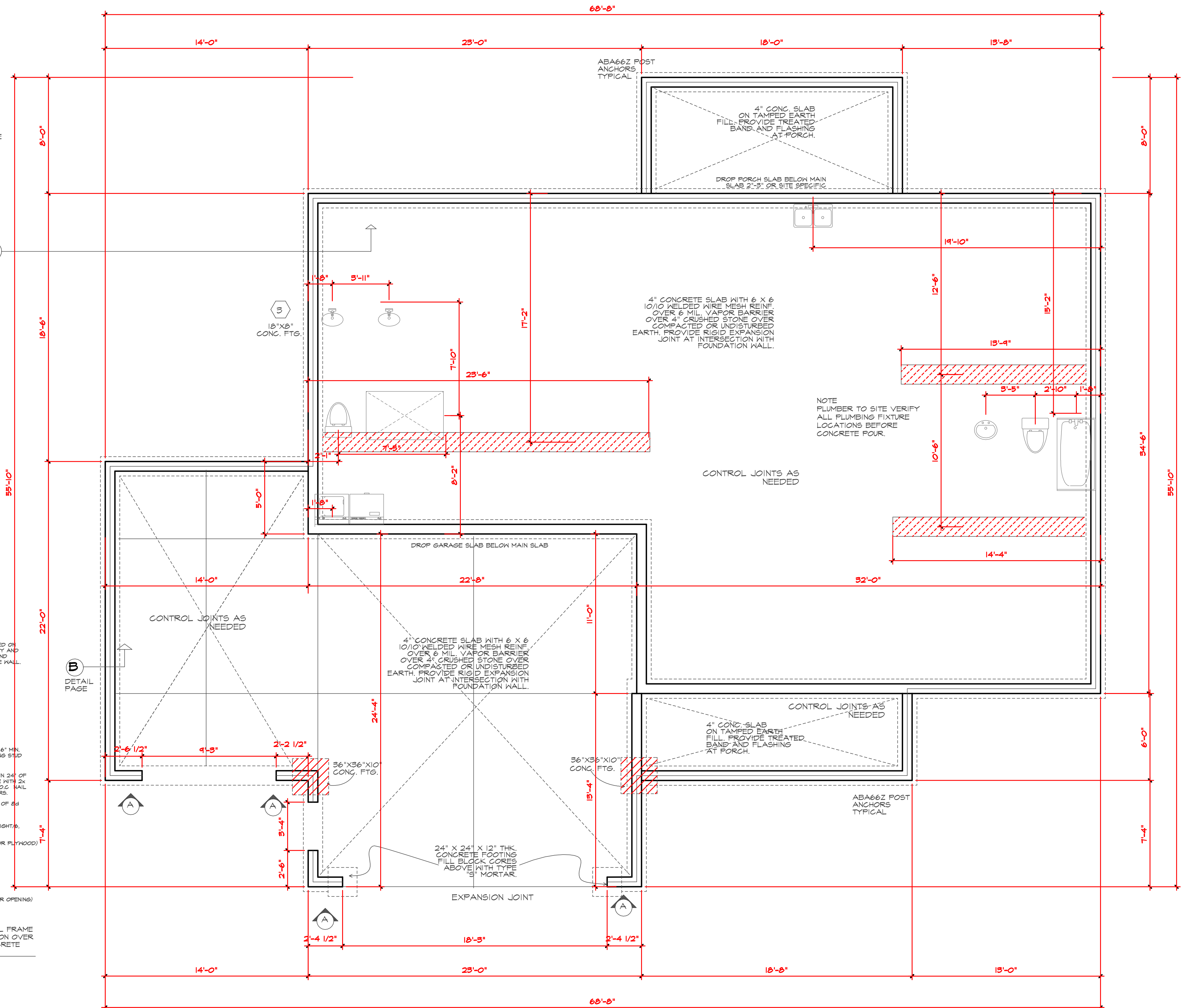
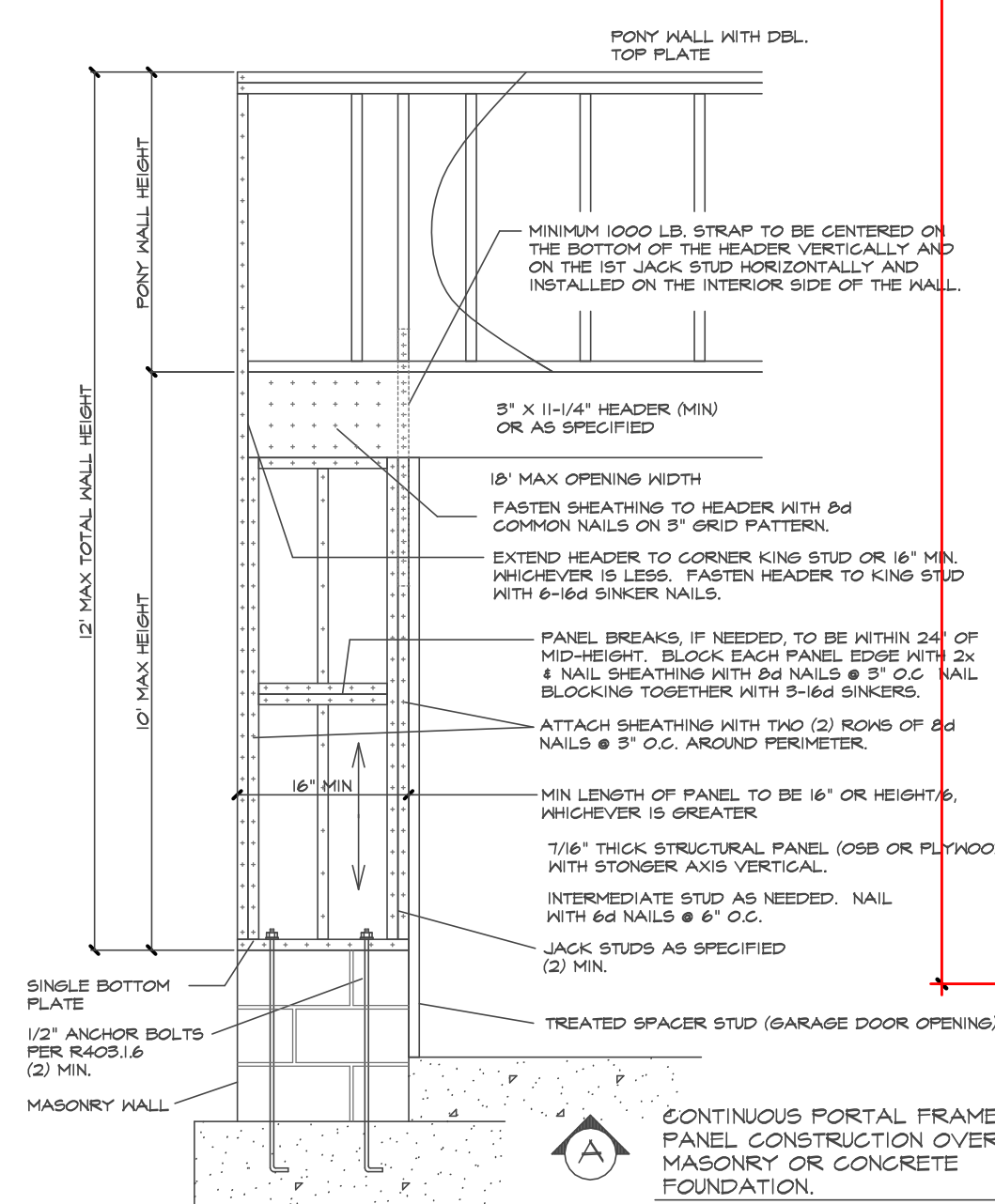
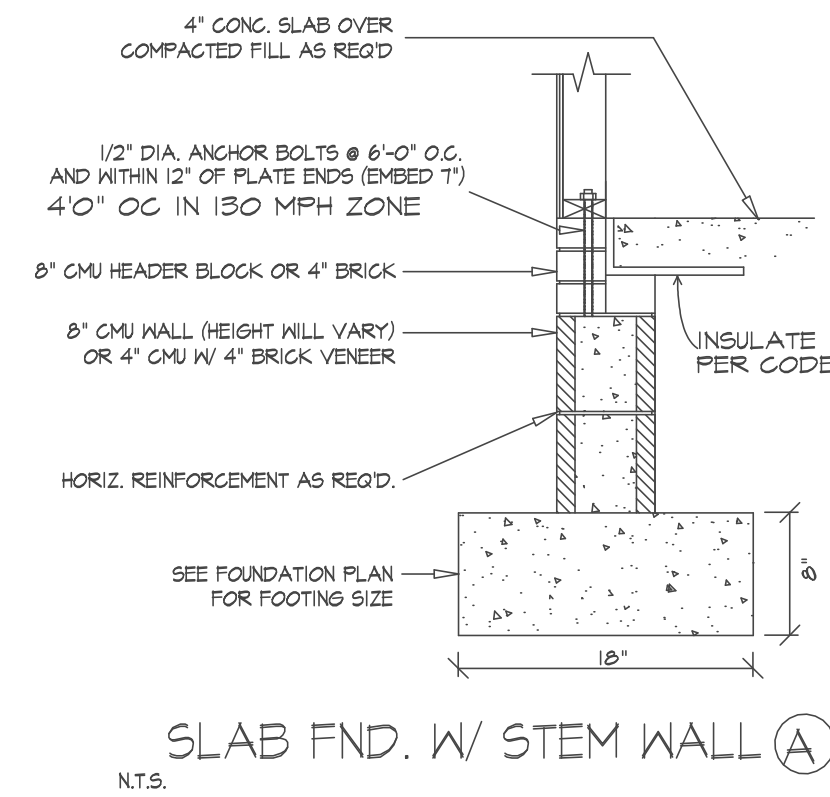
1/25/2024
 P.E. TEAGUE, P.E., PLLC
 2705 WATERLOO CT. NC 27613
 PETEAGUE50@GMAIL.COM
 (919)247-2572 (Lic. #P-0207)

FOUNDATION STRUCTURAL NOTES:

1. (3) 2 x 10 SFF #2 GIRDER DROPPED, TYPICAL I.N.O.
2. CONCRETE BLOCK PIER SIZE SHALL BE:

SIZE	HOLLOW MASONRY	SOLID MASONRY
8 x 16	UP TO 32' HIGH	UP TO 3'-0" HIGH
12 x 16	UP TO 48' HIGH	UP TO 4'-0" HIGH
16 x 16	UP TO 64' HIGH	UP TO 12'-0" HIGH
24 x 24	UP TO 86' HIGH	

WITH 30" x 30" x 10' CONCRETE FOOTINGS, I.N.O.
3. WALL FOOTING AS FOLLOWS:
 DEPTH: 3' - UP TO 2 1/2 STORY
 10' - 3 STORY
 WIDTH: SIDING (OR EQUAL)
 - 16" - UP TO 2 1/2 STORY
 - 18" - 3 STORY
 BRICK VENEER
 - 16" - 1 STORY
 - 20" - 2 STORY
 - 24" - 3 STORY
 FOR FOUNDATION WALL HEIGHT AND BACKFILL REQUIREMENTS, REFER TO NORTH CAROLINA RESIDENTIAL CODE TABLE R403.1.1 (THRU 4).
 NOTE: ASSUMED SOIL BEARING CAPACITY = 2000 PSF. CONTRACTOR MUST VERIFY SITE CONDITIONS AND CONTACT SOILS ENGINEER IF MARGINAL OR UNSTABLE SOILS ARE ENCOUNTERED.
 ATTACH SILL PLATE WITH 1/2" DIA. ANCHOR BOLTS AT 6'-0" CENTERS (1" EMBEDMENT) AND 12" FROM EACH PLATE END, (SECTION R 403.1.6) OR 4'-0" O.C. IN 150 MPH ZONE.
4. ■ DESIGNATES A SIGNIFICANT POINT LOAD TO HAVE SOLID BLOCKING TO PIER. SOLID BLOCK ALL BEAM BEARING POINTS NOTED TO HAVE THREE OR MORE STUDS TO FND, TYPICAL.
5. ABBREVIATIONS:
 'SJ' = SINGLE JOIST
 'DJ' = DOUBLE JOIST
 'TJ' = TRIPLE JOIST
6. (4) 2 x 10 SFF #2 GIRDER, TYPICAL I.N.O.



STEM WALL FOUNDATION PLAN'
 SCALE 1/4" = 1'-0"

NRH 1656-1 3-CAR GARAGE
 GARAGE LEFT

THIS PLAN DESIGNED UNDER NORTH CAROLINA RESIDENTIAL CODE 2018 EDITION (2021 IRC) (NC 2018 NRC) / (Irrad. 18" = 120 mph) IF IN 150 MPH ZONE FOLLOW ALL APPLICABLE CODES



6/17/2024
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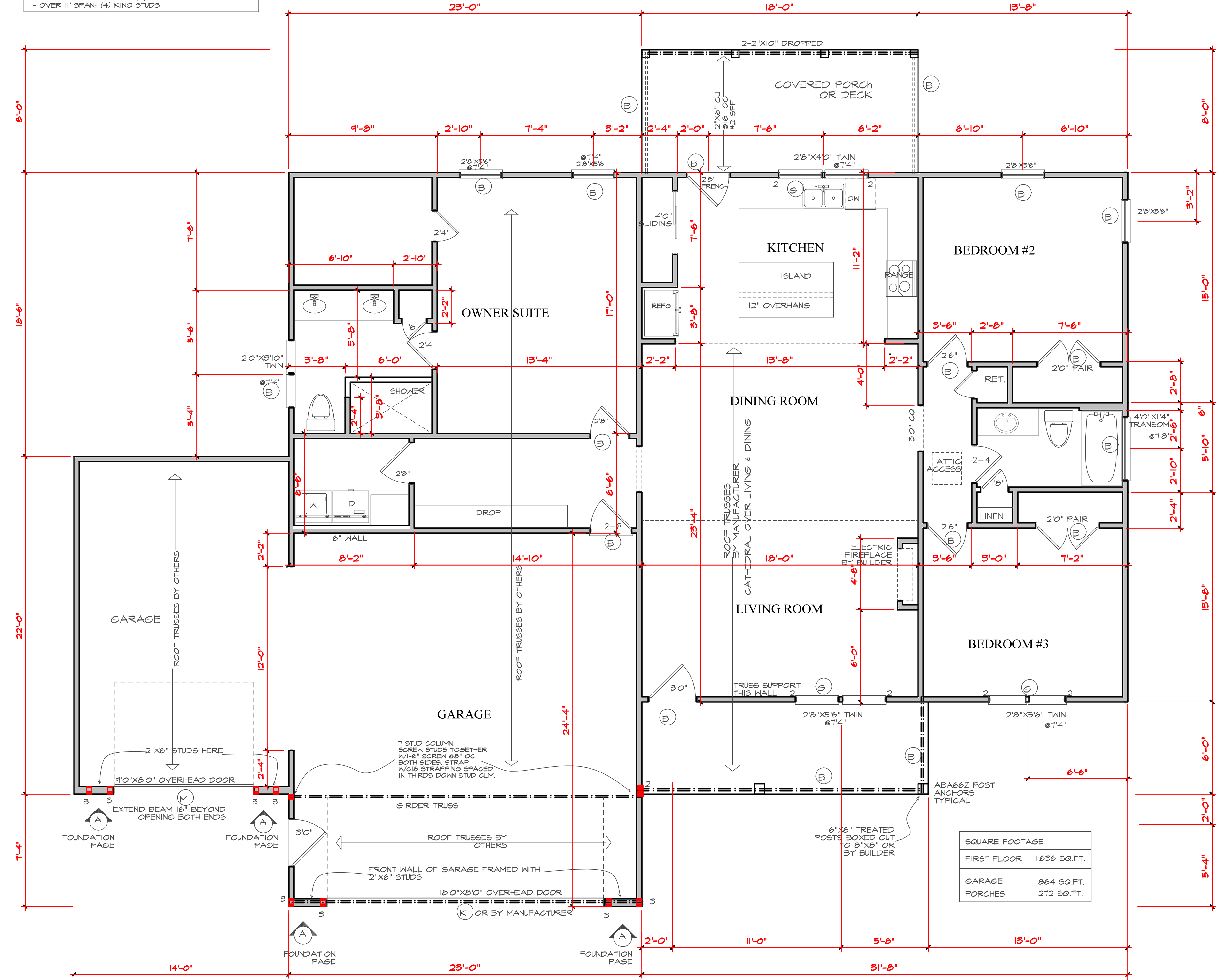
HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2x10 (4" WALL) OR (3) 2x10 (6" WALL) WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE.
- THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR COLUMN. THE NUMBER OF KING STUDS AT EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW:
 - UP TO 4' SPAN, (1) KING STUD
 - OVER 4' UP TO 8' SPAN, (2) KING STUDS
 - OVER 8' UP TO 11' SPAN, (3) KING STUDS
 - OVER 11' SPAN, (4) KING STUDS

- BEAM SCHEDULE**
- (A) 2-2"x10" FLUSH
 - (B) 2-2"x10" DROPPED
 - (C) 2-2"x8" FLUSH
 - (D) 2-2"x8" DROPPED
 - (E) 2-1.75"x9.25" LVL FLUSH
 - (F) 2-1.75"x9.25" DROPPED
 - (G) 2-2"x12" DROPPED
 - (H) 2-1.75"x14" LVL FLUSH
 - (J) 2-1.75"x14" LVL DROPPED
 - (K) 3-1.75"x14" LVL DROPPED
 - (L) 3-1.75"x18" LVL DROPPED
 - (M) 3-1.75"x11 7/8" LVL DROPPED

- STRUCTURAL NOTES:**
- Framing lumber shall be #2 SPF (modulus of elasticity 1,100,000 psi, E=1,600,000, treat lumber to be #2 SYP, E=1,600,000, R=1100 min. Studs min #2 or stud grade.
 - Use hangers for all beam to beam connections. Structural fastening as per R602.3(1). Adequate connections is the sole responsibility of the general contractor and his subs.
 - Structural members fastening to conform to Table R602.3(1) and (2).
 - Roof Framing Notes:
 a. DnHips may be spliced with a min. 6'-0" overlap at center. No valley splices.
 b. Use 2x10 or 1x12 down rafters for vaulted areas.
 c. Attach vaulted rafters with hurricane connectors: Simpson H-2.5, H-5 or approved equal.
 - All construction shall conform to the latest requirements of the NC State Residential Building Code - 2018 Edition, plus all local codes & regulations 3/2018 IBC.
 - Structural Engineer is not responsible for any work not under control of construction means, methods, techniques, sequences or procedures, or for safety precautions and programs in connection with the construction work.
 - Structural Engineer is not responsible for the contractor's failure to carry out the proposed construction work in accordance with the contract document.

- FRAMING NOTES:**
- Design Loads (R301.5) Live Loads Dead (PSF) (PSF):
 Rooms not for sleeping 40 10
 Sleeping Rooms 30 10
 Attic w/Permanent Stairs 40 10
 Attic w/o Permanent Stairs 20 10
 Attic w/o Storage 10 10
 Stairs 40 -
 Exterior Balconies 60 10
 Decks 40 10
 Guardsails & Handrails 200 -
 Passenger Vehicle Garages 50 10
 Fire Escapes 40 10
 Snow 20 -
 - Wind Load: (Refer to Table R301.2.4) Verify Zone before Construction
 Wake County 115 mph
 - Wall Bracing: Braced wall panels shall be constructed according to section R602.10.3. The wall structural paneling shall comply with Table R602.10.3. The length of braced panels shall be determined by section R602.10.4. Lateral bracing shall be satisfied per method 9 by continuously sheathing walls with structural sheathing per Table 601.3. Note that any specific brace wall detail shall be detailed as specified.
 - All framing lumber shall be SPF#2 (F=975 psi) unless otherwise noted (LNO). All treated lumber shall be SYP#2 (F=975 psi). Plate material may be SPF#3 or SYP#3 (FC (comp.) = 425 psi min.).
 - All interior bearing headers to be (2)2x10 u.n.o. w/ dbt. jacks for all openings >5'-0".
 - All interior bearing headers to be (2)2x10 u.n.o. w/ dbt. jacks for all openings >3'-0" u.n.o.
 - All interior non-bearing headers to be min. (2)2x4 flr. u.n.o.
 - Fireblock to conform with R602.8



SQUARE FOOTAGE	
FIRST FLOOR	1636 SQ.FT.
GARAGE	864 SQ.FT.
PORCHES	272 SQ.FT.

FIRST FLOOR PLAN
 SCALE 1/4" = 1'-0"

NRH 1656-1 3-CAR GARAGE
 GARAGE LEFT

THIS PLAN DESIGNED UNDER NORTH CAROLINA
 RESIDENTIAL CODE 2018 EDITION (2021 IRC)
NO. 2026 NCS&I, REV. 11/15/2020, IF IN UNAPPLICABLE ZONE FOLLOW ALL APPLICABLE CODES

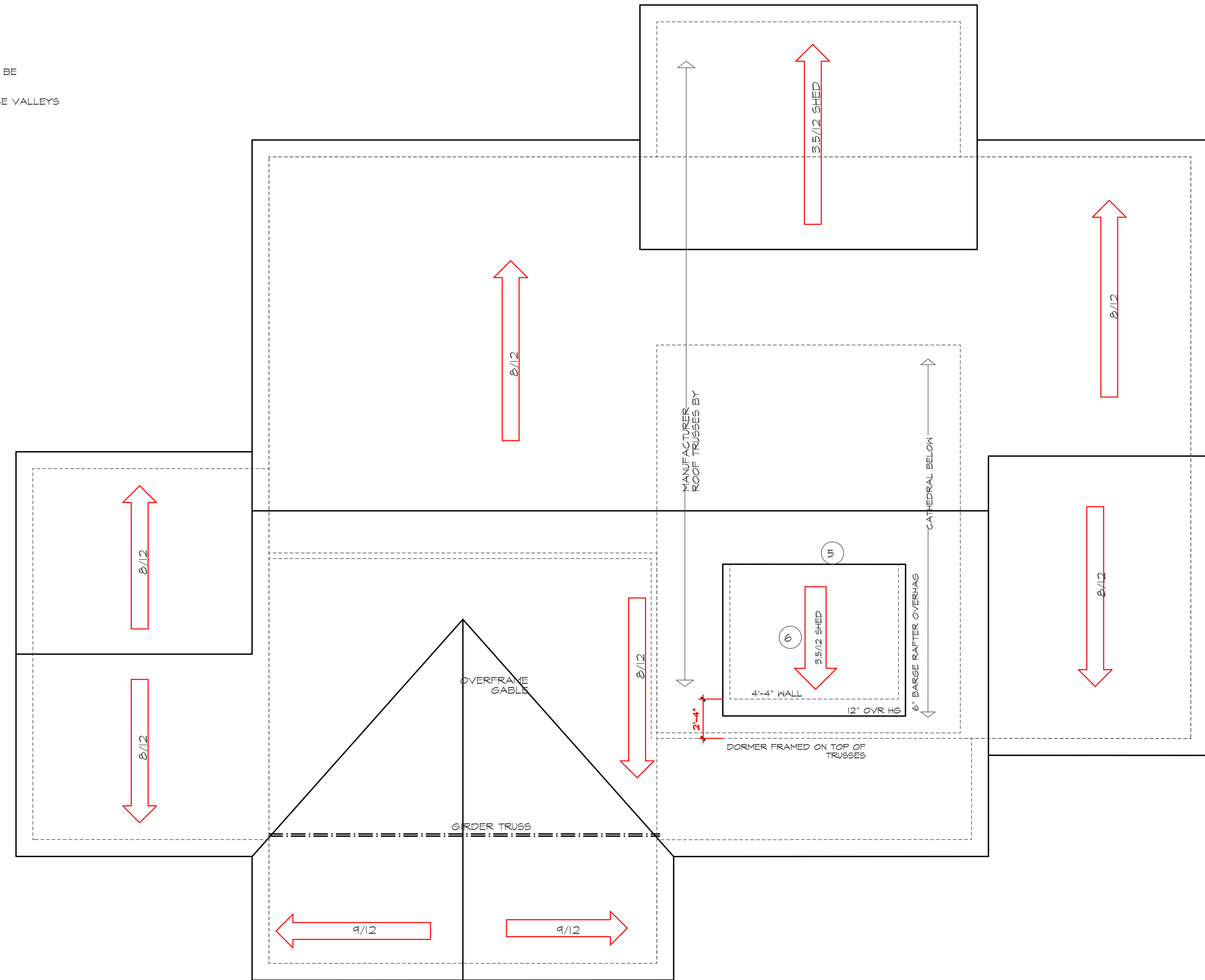
ROOF FRAMING NOTES:

(115-120) MPH WIND ZONE
(130 MPH SEE CODE)

1. ALL RAFTERS TO BE 2x8 @ 16" O.C. WITH 2 X 12 RIDGE, UNO.
2. (2)2x10 OR (1) 1.75" X 11 7/8" LVL HIP, (2)2x10 HIP MAY BE SPLICED WITH A MINIMUM 6'-0" OVERLAP AT CENTER.
3. (2)2x10 OR (1) 1.75" X 9.25" LVL VALLEY, DO NOT SPLICE VALLEYS
4. 1-1.75x11 7/8" LVL VALLEY
5. FALSE FRAME VALLEY ON 2x10 FLAT PLATE
6. 2"x6" RAFTERS @16" O.C. W/ 2x8 RIDGE
7. 2"x10" RAFTERS @16" O.C. W/ 2x12 RIDGE
 - "SR" = SINGLE RAFTER
 - "DR" = DOUBLE RAFTER
 - "TR" = TRIPLE RAFTER
 - "RS" = ROOF SUPPORT FOR RAFTER SPLICE
 - "■" = (3) STUD OR 4x4 POST FOR ROOF SUPPORT
 - FIR DOWN 2x8 RAFTERS OR USE 2x10 AT CATHEDRAL CEILINGS
 - ATTACH VAULTED RAFTERS WITH HURRICANE CLIPS, SIMPSON "H-5" OR EQUIVALENT
 - 2"x6" COLLAR TIES @32" TYPICAL

ROOF / FLOOR TRUSS REQUIREMENTS

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



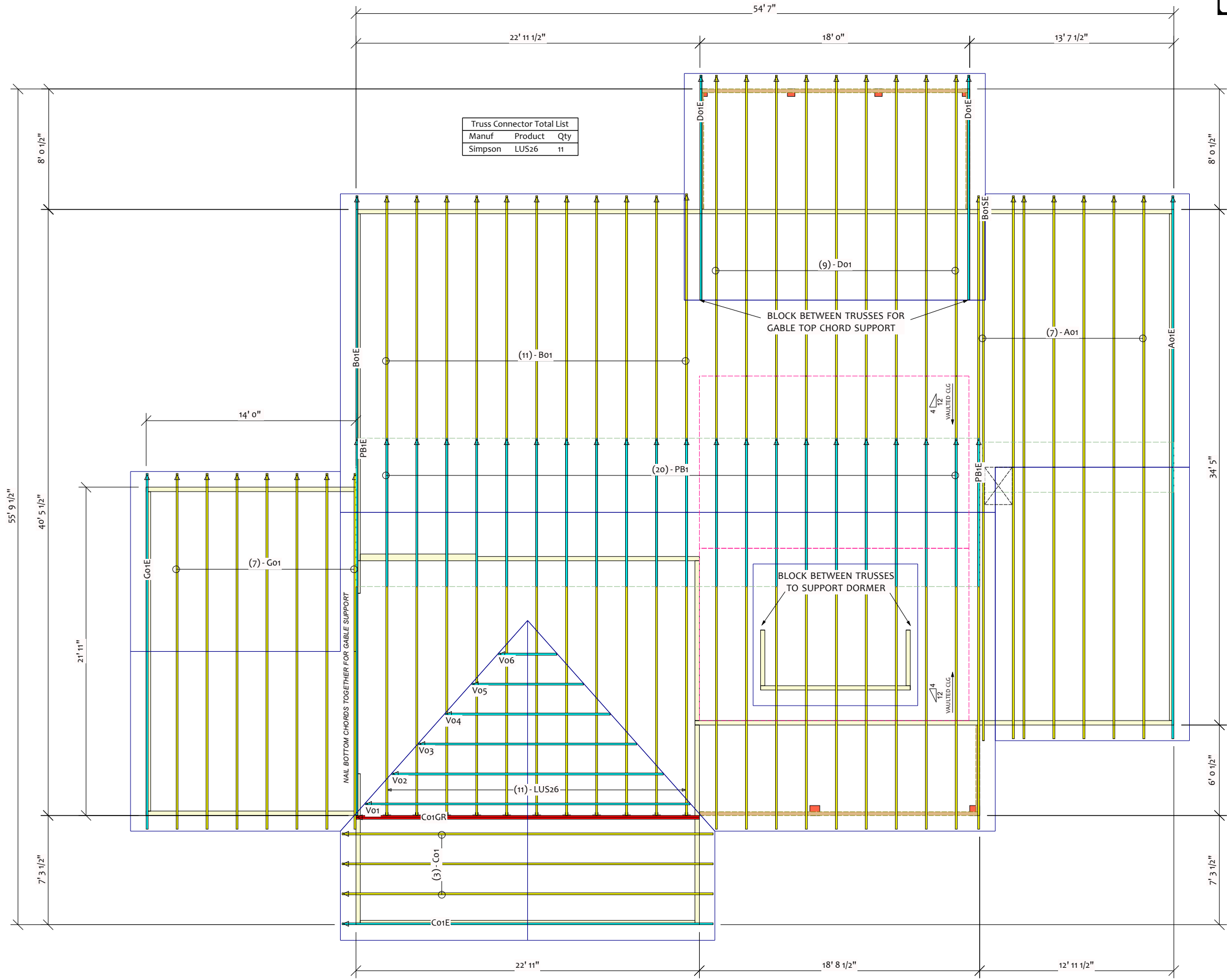
NOTE!
TRUSSES DESIGNED BY
TRUSS MANUFACTURER

ROOF PLAN
SCALE 1/4" = 1'-0"

NRH 1656-1 3-CAR GARAGE
GARAGE LEFT

THIS PLAN DESIGNED UNDER NORTH CAROLINA
RESIDENTIAL CODE 2018 EDITION (2021 IRC)
NO 2020 NCEC / 1904.18 - 120 mph IF IN 150 MPH ZONE FOLLOW ALL
APPLICABLE CODES

U.N.O. ALL SPANS ARE OUT TO OUT OF STUD WALLS



THIS IS A TRUSS PLACEMENT DIAGRAM ONLY

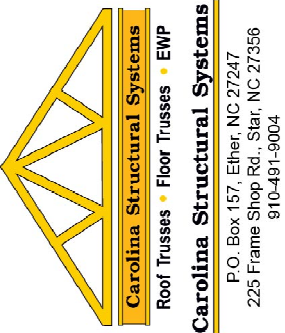
These trusses are designed as individual building components to be incorporated into the building design at the specification of the building designer. See individual design sheets for each truss design identified on the placement drawing. The building designer is responsible for temporary and permanent bracing of the roof and floor system and for the overall structure. The design of the truss support 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'Onofrio Drive, Madison, WI 53179.

SHOP DRAWING APPROVAL

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: _____

Job #: 231650RT1	Plan: NRH1656-GL LOT 2 AVERY LANDING
Customer: NEUSE RIVER HOMES	Date: 12/14/2023
Site Address: LOT 22 AVERY LANDING	Sales Rep: SLAIL
City, ST, ZIP: SMITHFIELD, NC 27577	Designer: SFARR
	ROOF DATA
	Roof Area: 3697.39 SF



Roof area = 3697.39
Floor area = 0

△ = LEFT END OF TRUSS - COORDINATE WITH SHOP DRAWINGS

STRUCTURAL NOTES

1) ALL CONSTRUCTION SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NORTH CAROLINA STATE RESIDENTIAL CODE - 2018 EDITION (2018 IRC), PLUS ALL LOCAL CODES AND REGULATIONS.
ALL MEMBERS SHALL BE FRAMED, ANCHORED, TIED AND BRACED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE AND THE BUILDING CODE.

2) DESIGN LOADS SEE TABLE R301.5

WIND SPEED: (REFER TO TABLE R301.2.4)
VERIFY ZONE BEFORE CONSTRUCTION.

3) WALL BRACING: WALLS SHALL BE BRACED ALONG BRACED WALL LINES ACCORDING TO SECTION R602.10. THE AMOUNT, LOCATION AND CONSTRUCTION OF BRACING SHALL COMPLY WITH R602.10. NOTE THAT THE BRACING SHOWN ON THE PLANS IS BASED ON THE PRESCRIPTIVE BRACING REQUIREMENTS OF THE CODE AND SHALL BE VERIFIED AND/OR APPROVED BY THE CODE OFFICIAL.

4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (NO). AIR ENTRAINMENT 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 STRUCTURAL 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 (NO). ALL TREATED LUMBER SHALL BE SYP #2 (FB=475 PSI). PLATE MATERIAL MAY BE SPF #3 OR SYP #3 (FC/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 (NO), (2) 2X4 STUDS FOR BEAM SPAN GREATER THAN 6'-0" (NO).

8) L.V.L SHALL BE LAMINATED VENEER LUMBER, FB=2600 PSI, FV=285 PSI, E=1,900,000 PSI. P.S.L SHALL BE PARALLEL STRAND LUMBER, FB=2400 PSI, FV=280 PSI, E=2,000,000 PSI. L.S.L SHALL BE LAMINATED STRAND LUMBER, FB=2250 PSI, FV=400 PSI, E=1,950,000 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURER'S INSTRUCTIONS.

9) ALL ROOF TRUSS AND I-JOIST LAYOUTS SHALL BE PREPARED IN ACCORDANCE WITH THE SEALED STRUCTURAL DRAWINGS. TRUSSES AND I-JOISTS SHALL BE INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

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, ASTM615, 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 4'-0" (NO).

14) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS SEE R301.2(6).

DWELLING / GARAGE SEPARATION

REFER TO SECTIONS R302.3, R302.6, AND R302.7

WALLS. A minimum 1/2" gypsum board must be installed on all walls supporting floor/ceiling assemblies used for separation required by this section.
STAIRS. A minimum of 1/2" gypsum board must be installed on the underside and exposed sides of all stairways.

CEILING. A minimum of 1/2" gypsum must be installed on the garage ceiling if there are no habitable room above the garage. If there are habitable room above the garage a minimum of 5/8" type X gypsum board must be installed on the garage ceiling.

OPENING PENETRATIONS. Openings between the garage and residence shall be equipped with solid wood doors not less than 1 3/8 inches (35 mm) in thickness, solid or honeycomb core steel doors not less than 1 3/8 inches (35 mm) thick, or 20-minute fire-rated doors.

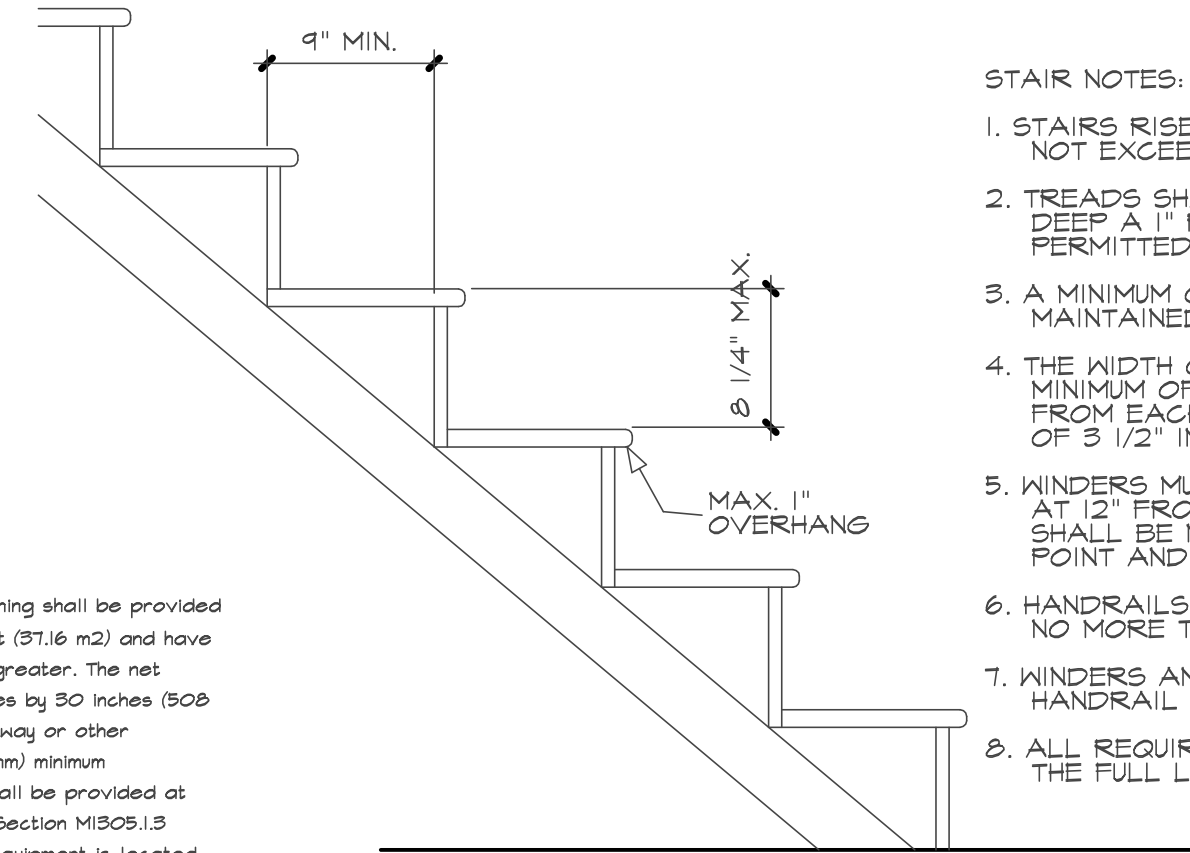
DUCT PENETRATIONS. Ducts in the garage and ducts penetrating the walls or ceilings separating the dwelling from the garage shall be constructed of a minimum No. 26 gage (0.48 mm) sheet steel or other approved material and shall have no openings into the garage.

OTHER PENETRATIONS. Penetrations through the separation required in Section R302.6 shall be protected as required by Section R302.11, Item 4.

ATTIC ACCESS

SECTION R307
R307.1 Attic access. An attic access opening shall be provided to attic areas that exceed 400 square feet (37.16 m²) and have a vertical height of 60 inches (1524 mm) or greater. The net clear opening shall not be less than 20 inches by 30 inches (508 mm by 762 mm) and shall be located in a hallway or other readily accessible location. A 30-inch (762 mm) minimum unobstructed headroom in the attic space shall be provided at some point above the access opening. See Section M305.1.3 for access requirements where mechanical equipment is located in attics.

Exceptions:
1. Concealed areas not located over the main structure including porches, areas behind knee walls, dormers, bay windows, etc., are not required to have access.
2. Pull down stair treads, stringers, handrails, and hardware may protrude into the net clear opening.

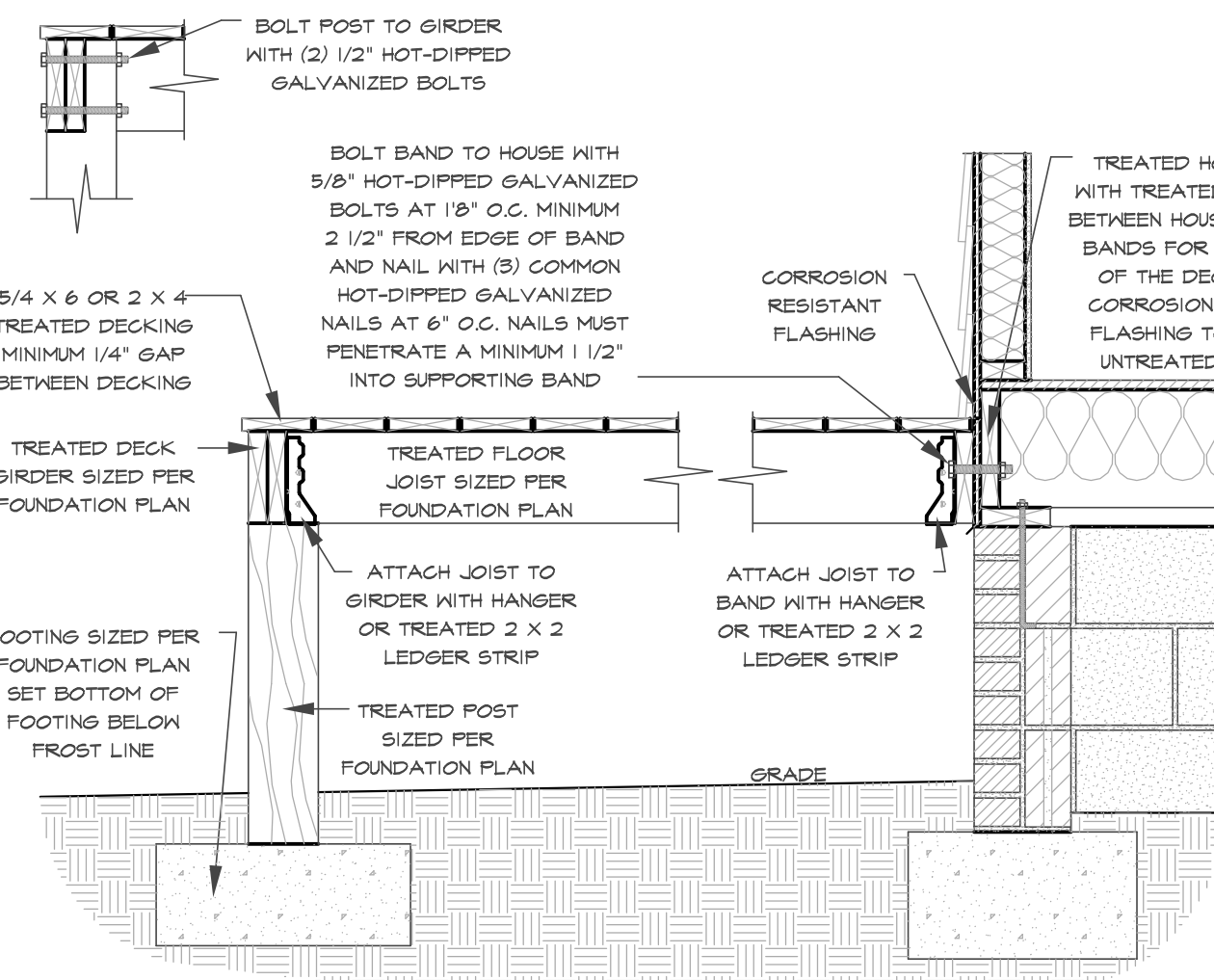


STAIR NOTES:

1. STAIRS RISERS MUST BE UNIFORM AND NOT EXCEED 8 1/4".
2. TREADS SHALL NOT BE LESS THAN 10" DEEP A 1" PROJECTION OVER RISER IS PERMITTED.
3. A MINIMUM OF 6'8" HEADROOM MUST BE MAINTAINED AT ALL PLACES ON STAIR.
4. THE WIDTH OF THE STAIR SHALL BE A MINIMUM OF 3'0". HANDRAIL MAY PROJECT FROM EACH SIDE OF STAIR A DISTANCE OF 3 1/2" INTO THE REQUIRED WIDTH.
5. WINDERS MUST BE A MINIMUM OF 4" IN WIDTH AT 12" FROM THE NARROWEST SIDE. TREAD SHALL BE NO NARROWER THAN 4" AT ANY POINT AND AVERAGE NO LESS THAN 9 INCHES.
6. HANDRAILS SHALL BE NO LESS THAN 34" AND NO MORE THAN 38" ABOVE TREAD NOSING.
7. WINDERS AND SPIRAL STAIRS SHALL HAVE THE HANDRAIL LOCATED ON THE OUTSIDE RADIUS.
8. ALL REQUIRED HANDRAILS SHALL BE CONTINUOUS THE FULL LENGTH OF THE STAIRS.

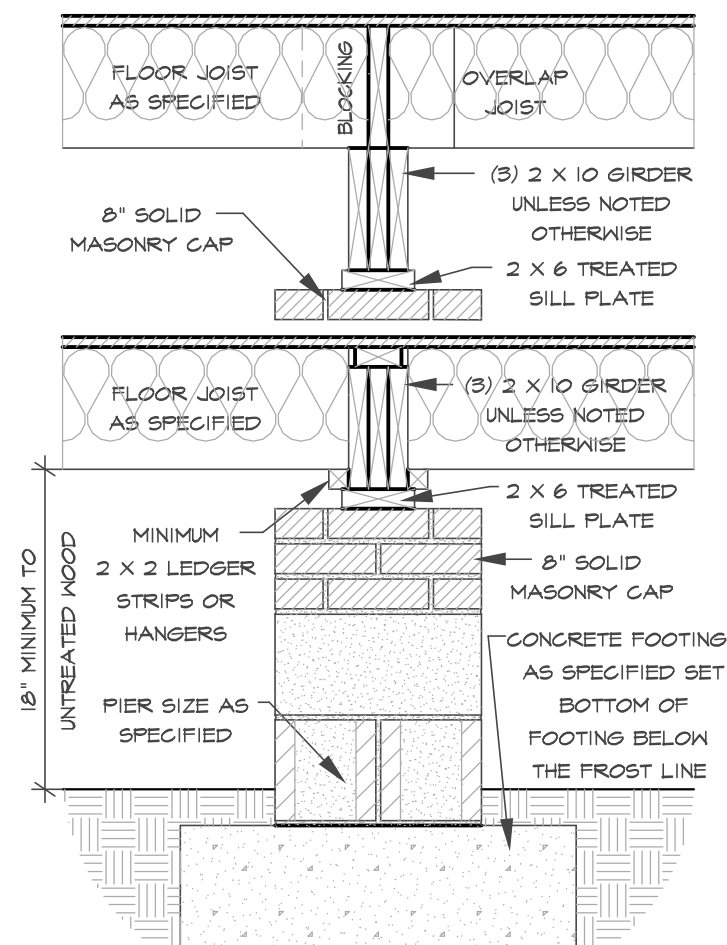
STAIR DETAIL

NO SCALE



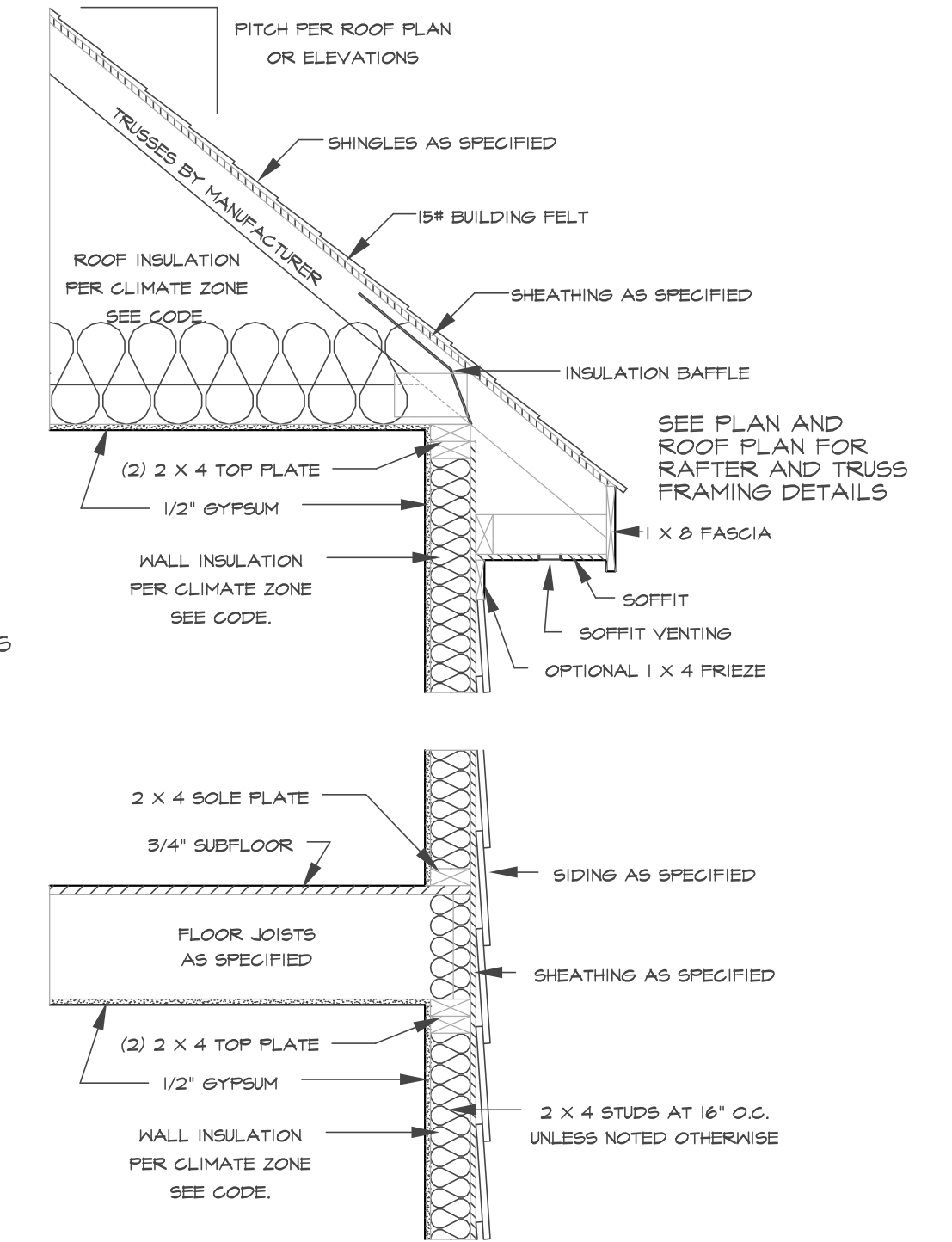
DECK ATTACHMENT DETAIL TO FRAMED WALL

SCALE 3/4" = 1'-0"



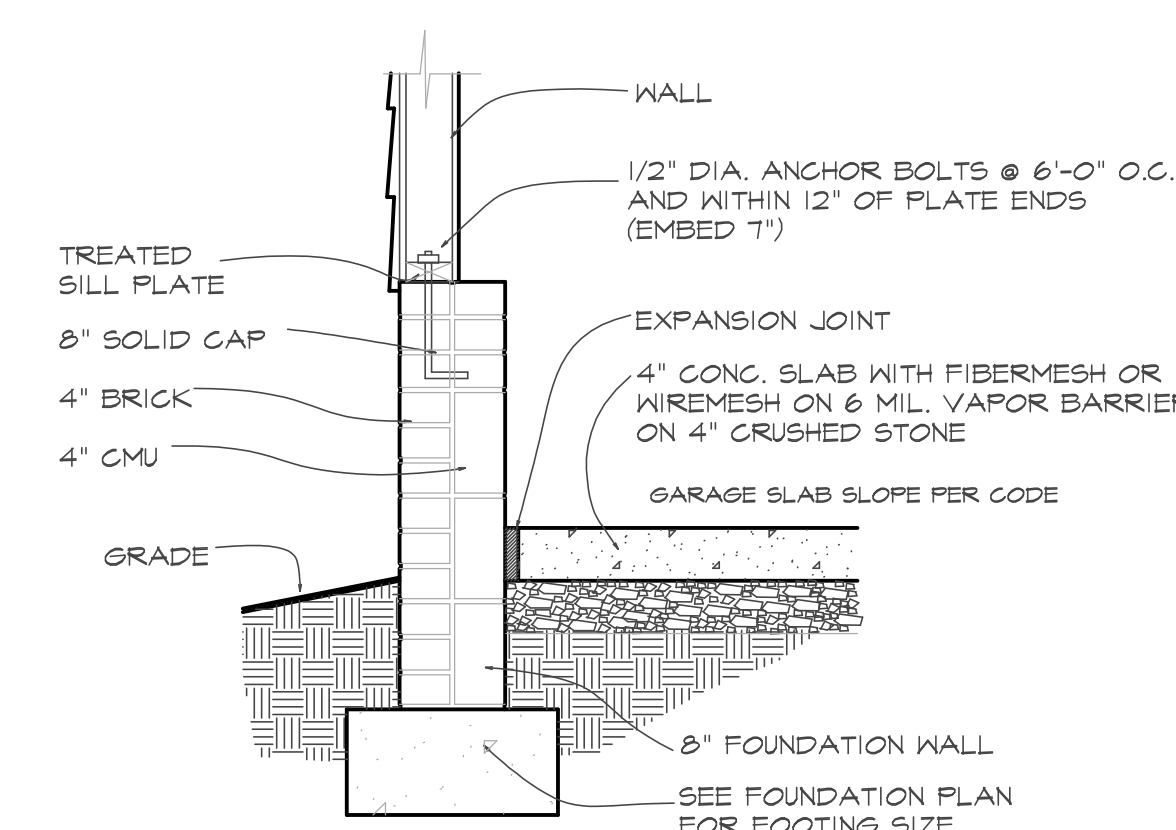
DROPPED/ FLUSH PIER

SCALE 3/4" = 1'-0"

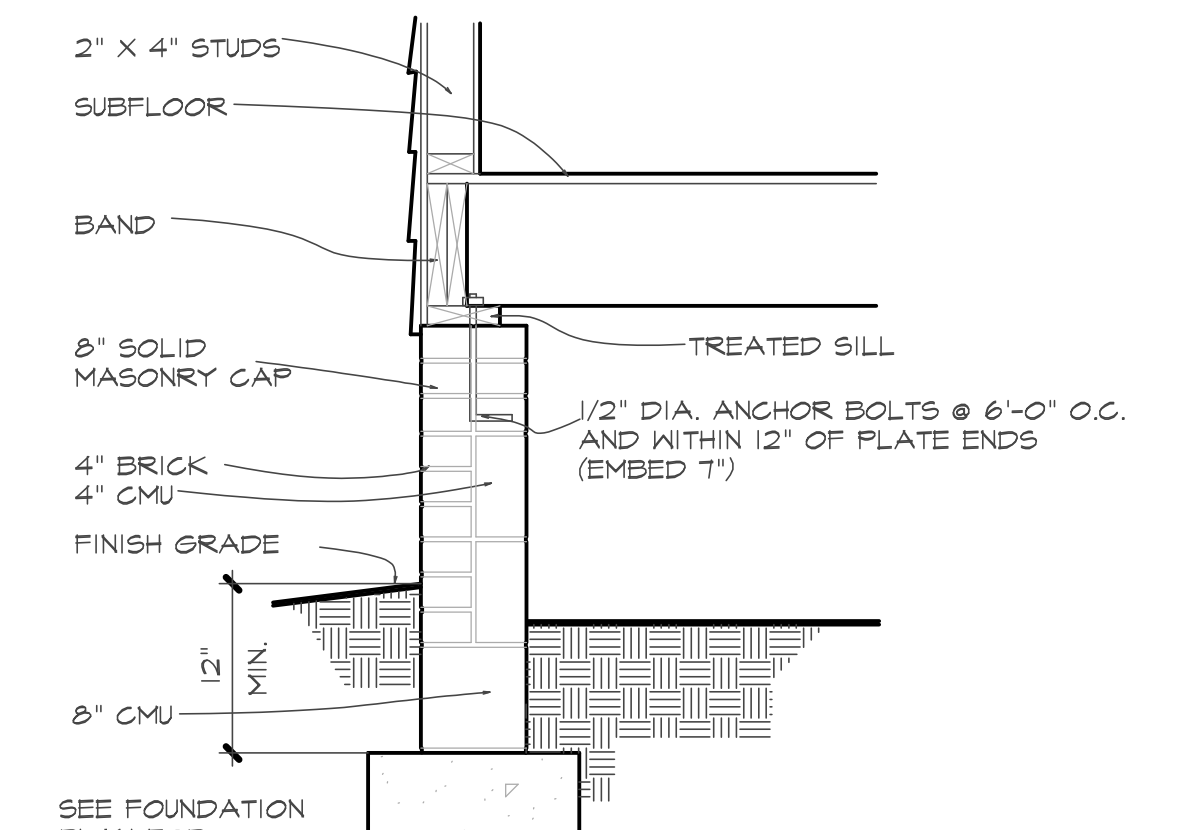


TYPICAL WALL SECTION

SCALE 3/4" = 1'-0"



SECTION AT GARAGE SLAB



SECTION AT CRAWL

TABLE R602.1.2 INSULATION AND PENETRATION REQUIREMENTS BY COMPONENT^a

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT U-FACTOR ^b	CEILING U-FACTOR ^b	CEILING PENETRATION U-FACTOR ^b	FRAME WALL U-FACTOR ^b	WALL U-FACTOR ^b	FLOOR U-FACTOR ^b	BASEMENT WALL U-FACTOR ^b	SLAB U-FACTOR ^b	CRAWL SPACE WALL U-FACTOR ^b
3	0.35	0.55	0.30	38 or 30 ^c	15 or 15-25 ^d	5/13 or 5/10 ^e	19	5/19	0	5/13
4	0.35	0.55	0.30	38 or 30 ^c	15 or 15-25 ^d	5/13 or 5/10 ^e	19	10/15	10	10/12
5	0.35	0.55	NR	38 or 30 ^c	12 ^f or 13-15 ^d	13/17 or 13/12.5 ^e	30 ^g	10/12	10	10/19

TABLE R602.1.4 EQUIVALENT U-FACTORS^a

CLIMATE ZONE	FENESTRATION U-FACTOR ^b	SKYLIGHT U-FACTOR ^b	CEILING U-FACTOR ^b	FRAME WALL U-FACTOR ^b	WALL U-FACTOR ^b	FLOOR U-FACTOR ^b	BASEMENT WALL U-FACTOR ^b	CRAWL SPACE WALL U-FACTOR ^b
3	0.35	0.55	0.030	0.027	0.141	0.047	0.097	0.136
4	0.35	0.55	0.030	0.027	0.141	0.047	0.095	0.085
5	0.35	0.55	0.030	0.061	0.482	0.033	0.055	0.085

^a Nonresidential U-factors shall be obtained from measurement, calculation or an approved source.
^b Where more than half the transmission is on the interior, the mean wall U-factor shall be a maximum of 0.027 in Climate Zone 3, 0.021 in Climate Zone 4 and 0.028 in Climate Zone 5.
^c Basement wall U-factor of 0.040 in warm humid locations as defined by Figures R301.1 and Table R301.1.
^d A maximum of 2% glass fenestration product assemblies, having a U-factor no greater than 0.25 and a SHGC no greater than 0.20 shall be permitted to be substituted for minimum code comparison fenestration product assemblies without penalty. When applying this rule, use the REScheck "3A Trade-off" conditions instead to allow continued use of the software. The applicable fenestration product shall be modeled as meeting the U-factor of 0.25 and the SHGC of 0.20, as applicable, per the fenestration product actual U-factor and actual SHGC shall be used in the common section of the software for documentation of application of this rule to the applicable product. Compliance for these substitution products shall be verified compared to the above substantial maximum U-value requirement and maximum SHGC requirement, as applicable.