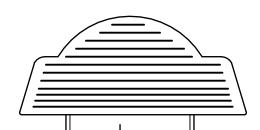


NOTICE TO CONTRACTOR
All construction must comply with current NC Building Codes
and is subject to field inspection and verification. 02/15/2021









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

ENERGY COMPLIANCE

FLOORS RI9

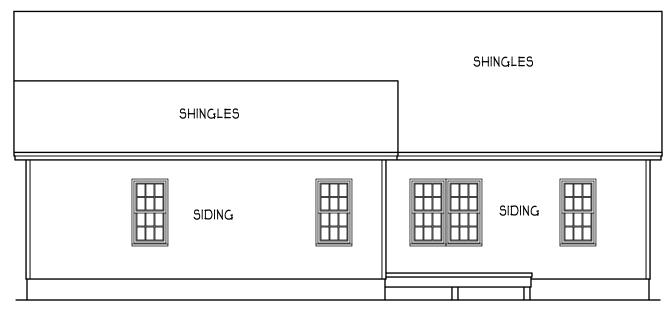
ZONE 3 = MAX. GLAZING U-FACTOR .35 R-VALUE = CEILING R38, WALLS RI5,

ZONE 4 = MAX. GLAZING U-FACTOR .35 R-VALUE = CEILING R38, WALLS RI5, FLOORS RI9

#### ATTIC VENTILATION:

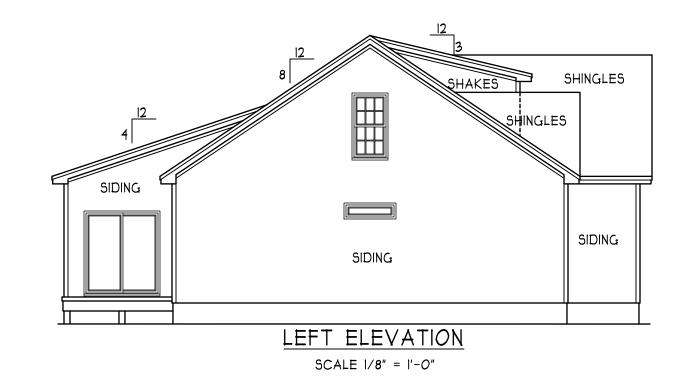
THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN I TO ISO OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE I TO 300, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE EAVE OR CORNICE VENTS WITH THE BALANCE OF THE REQUIRED VENTILATION TO BE PROVIDED BY EAVE OR CORNICE VENTS.

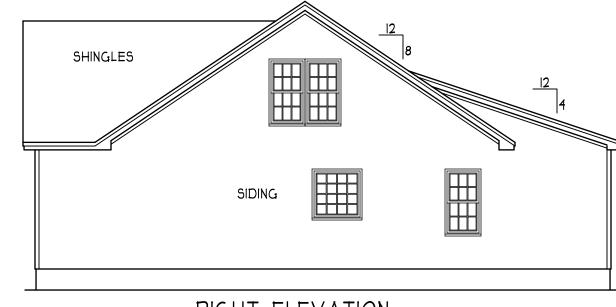
GROSS ATTIC AREA TO BE VENTILATED 2117 SQ.FT. 2117/150 = 14.1 SQ.FT. NET FREE AREA



# REAR ELEVATION

SCALE 1/8" = 1'-0"





RIGHT ELEVATION

SCALE 1/8" = 1'-0"

TARHEEL SERVICES AND CONSTRUCTION PIPER RIGHT

1540 90 487 н н н

WARE FOOTAGE:
FIRST FLOOR
FRONT PORCH
GARAGE

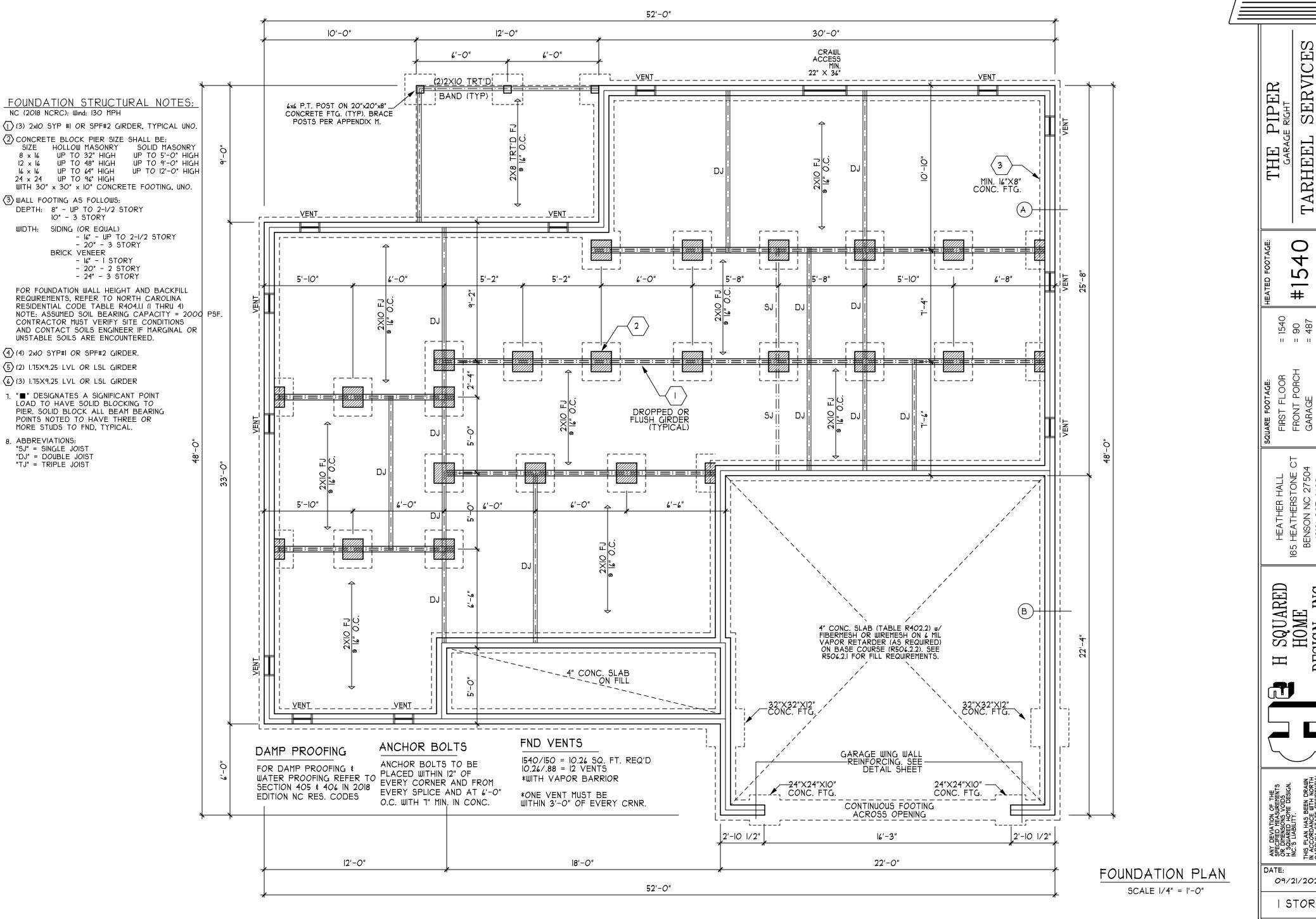
HEATHER HALL
165 HEATHERSTONE CT
BENSON NC 27504
(919) 207-1403

H SQUARED HOME DESIGN, INC.

ANY DEVIATION OF THE SPECIFIED MEASUREMENTS OR DIMENSIONS VOIDS H SQUARED HOME DESIGN, INC.'S LIABILITY.

DATE: 09/21/2020

I STORY



SERVICES TRUCTION PIPER SE RIGHT TARHEEL SAND CONST

H=H=HUARE FOOTAGE: FIRST FLOOR FRONT PORCH GARAGE

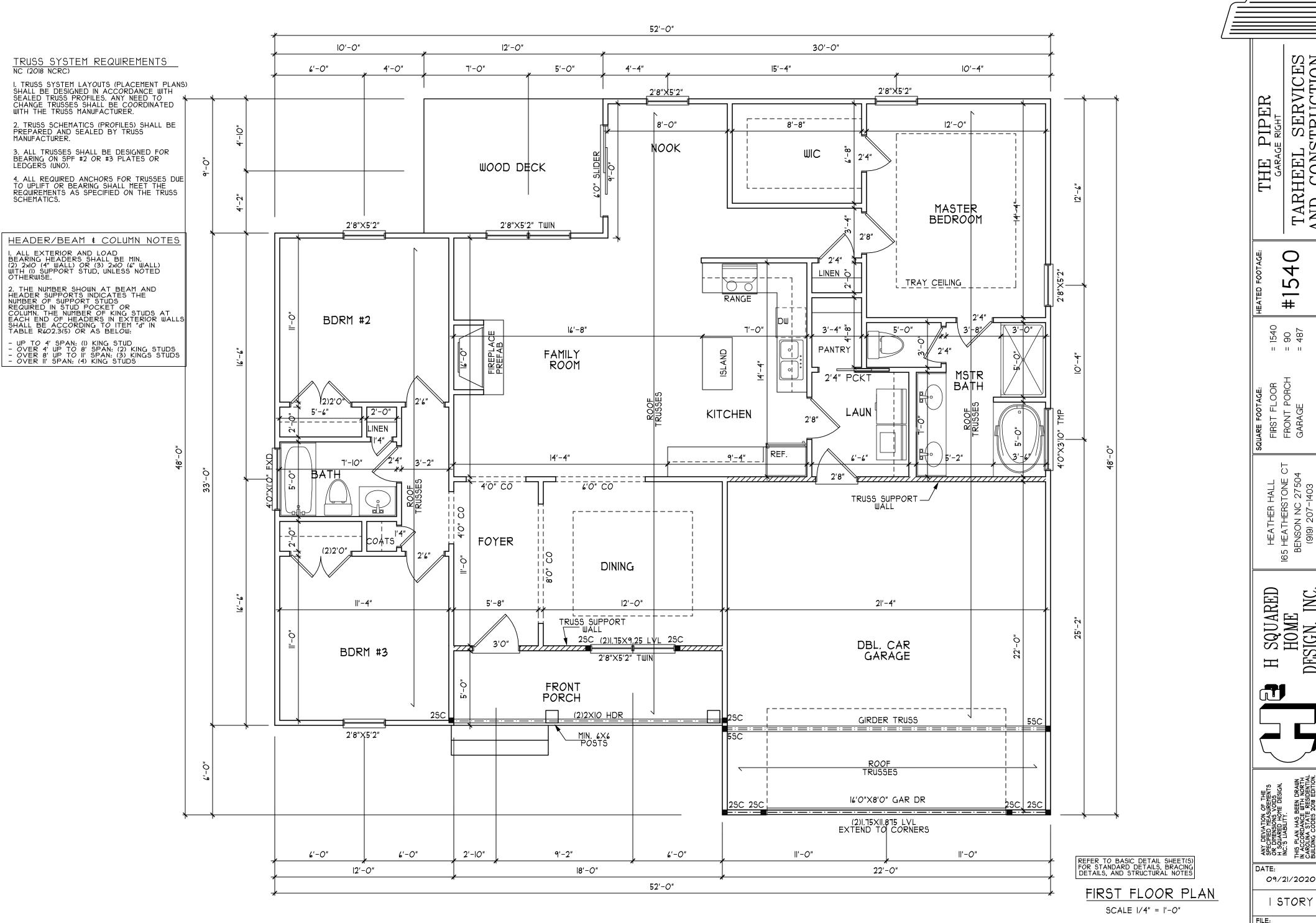
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THIS PLAN HAS BEEN DRAWN N ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

09/21/2020 I STORY





SERVICES STRUCTION TARHEEL SAND CONST

H=H=H

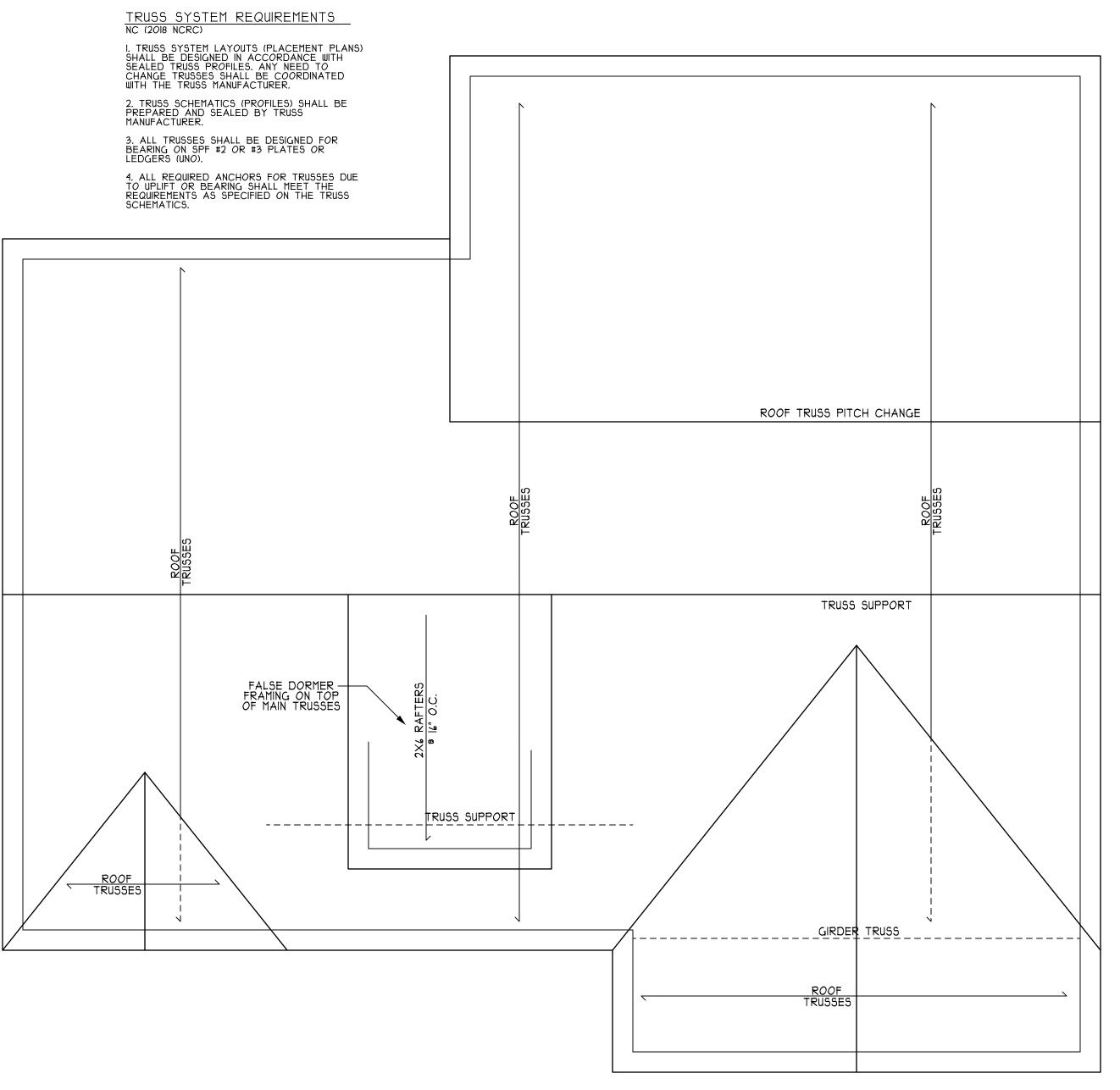
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09/21/2020



REFER TO BASIC DETAIL SHEET(S) FOR STANDARD DETAILS, BRACING DETAILS, AND STRUCTURAL NOTES

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

THE PIPER
GARAGE RIGHT
TARHEEL SERVICES
AND CONSTRUCTION

#1540

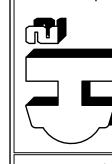
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NUARE FOOTAGE:
FIRST FLOOR
FRONT PORCH
GARAGE

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DATE: 09/21/2020 | STORY

## 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	DEAD LOAD	DEFLECTION
		(PSF)	(PSF)	(LL)
	ROOMS OTHER THAN SLEEPING RO	OMS 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	60	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 1115/120 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

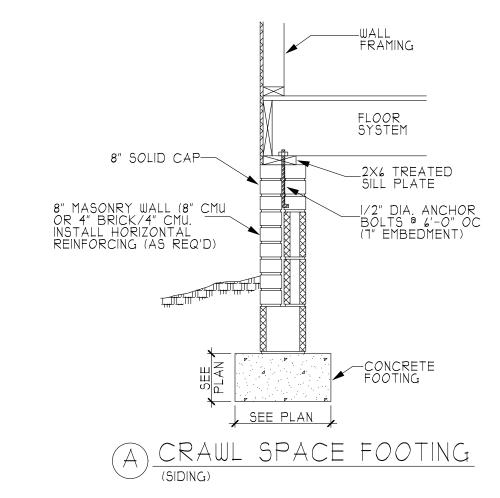
  SHEATHING WALLS WITH STRUCTURAL SHEATHING PER SECTION R602.10.3.

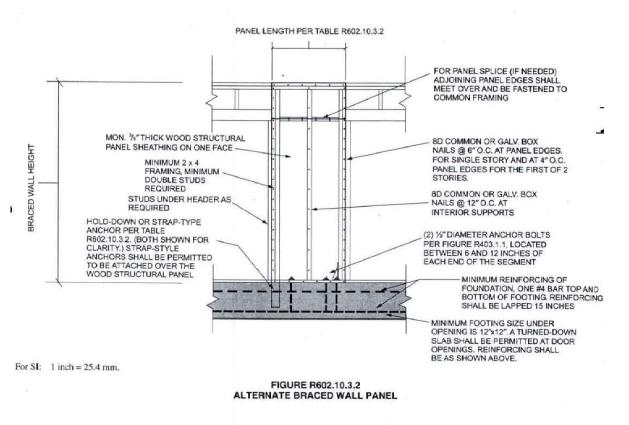
  NOTE THAT ANY SPECIFIC BRACED WALL DETAIL SHALL BE INSTALLED AS SPECIFIED.
- 4) CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR ENTRAINED PER TABLE 402.2. ALL CONCRETE SHALL BE PROPORTIONED, MIXED, HANDLED, SAMPLED, TESTED, AND 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 DRAINSURFACE 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 (Fc(berb) = 425 PSI MIN).
- 1) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (1) 2x4 STUD COLUMN FOR 6'-O" MAX. BEAM SPAN (UNO), (2) 2X4 STUDS FOR BEAM SPAN GREATER THAN 6'-O" (UNO).
- 8) L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2400 PSI, Fv=285 PSI, E=1.9×10 PSI. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0×10 PSI. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55×10 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.
- IO) 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 × 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 9 48" O.C. . ALL STEEL TUBING SHALL BE ASTM A500.
- II) REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.
- 12) FLITCH BEAMS SHALL BE BOLTED TOGETHER USING (2) ROWS OF 1/2" DIAMETER BOLTS (ASTM A301) 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 4" FROM EACH END.
- 13) BRICK LINTELS SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-O" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-O". SEE PLANS FOR SPANS OVER 9'-O". SEE ALSO SECTION R103.1.3 LINTELS
- 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





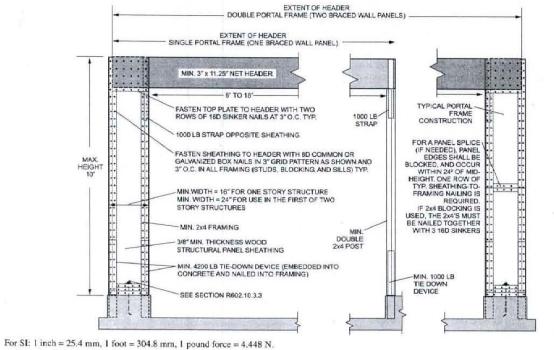
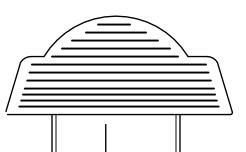
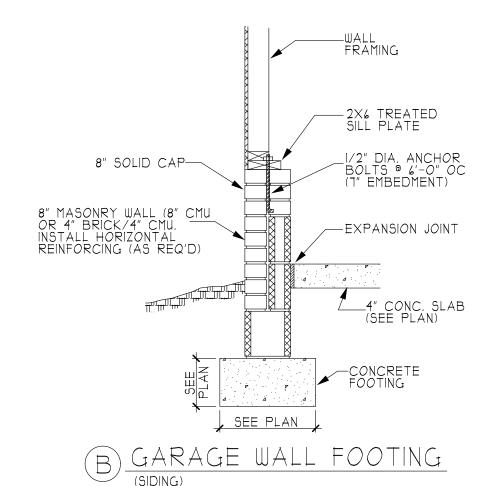
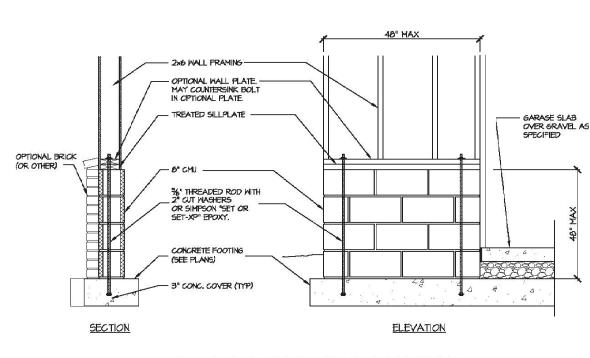


FIGURE R602.10.3.3 METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS







GARAGE 'WING WALL' REINFORCING PER IRC FIGURE R602.10.43

BASIC BUILDING
DETAIL SHEET
(115/120 MPH)

PLEASE NOTE THAT NOT ALL DETAILS APPLY TO EVERY PLAN.

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DEVIATION OF THE
THE MEASUREMENTS
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MITHED HOME DESIGN,
LIABILITY.

PLAN HAS BEEN DRAWN
CORDANCE WITH NORTH
CORDANCE WITH NORTH
NG CODES 2018 EDITION.

DATE:

## THIS LAYOUT IS TO BE USED AS A TRUSS PLACEMENT GUIDE ONLY. PLEASE REFER TO BUILDING PLANS FOR BUILDING CONSTRUCTION AND DETAILS, SUCH AS PLUMBING OR DUCT DROPS.







- Exterior dimensions shown are assumed to be:
   Out-to-out of stud
   Out-to-out of sheathing
- 2. Adjust truss locations as needed for plumbing and mechanical clearance. Unless otherwise noted, trusses may be shifted as long as O.C. spacing
- shown is not exceeded.

  3. Do not cut, drill, or otherwise damage any part of any truss without prior approval from Peak Truss.
  4. Do not approve drawings if any
- information herein is unclear. Once ordered trusses will be fabricated as approved.

  5. Please contact Peak Truss
- Builders with any questions. We are available to help any way we can. We can be reached at 919-545-5555 or sales@peaktruss.con

Roof Truss Loading per 2018 NC Residential Code

Top Chord Live Load Top Chord Dead Load Bottom Chord Live Load Bottom Chord Dead Load

Trusses are designed for additional storage load wherever a 42"x24" box will fit between the webs.

20# PSF 10# PSF

∴ This symbol denotes left end of truss as shown on truss drawings
 → Approximate location of toilet drop. Builder please confirm.

N -Nailed

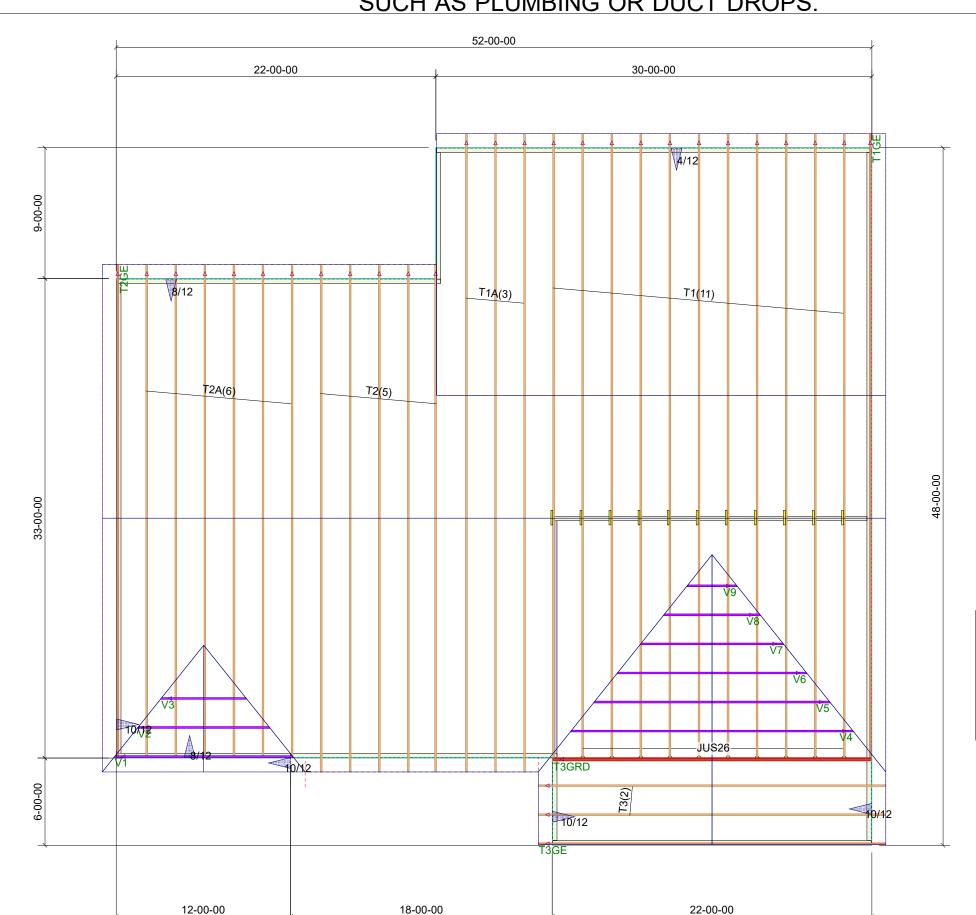
L -Ledger

Nate Donaldson Designer: Date

Q-2100273

Piper 1967 Hwy 96 S Four Oaks NC 27254

Guy C Lee - Clayton 151 Hwy 42 E Clayton,NC 27520



Piper Roof Trusses 2' OC, 1' OH

Truss Connector Total List						
Manuf	Product	Qty				
USP	JUS26	10				