### 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.

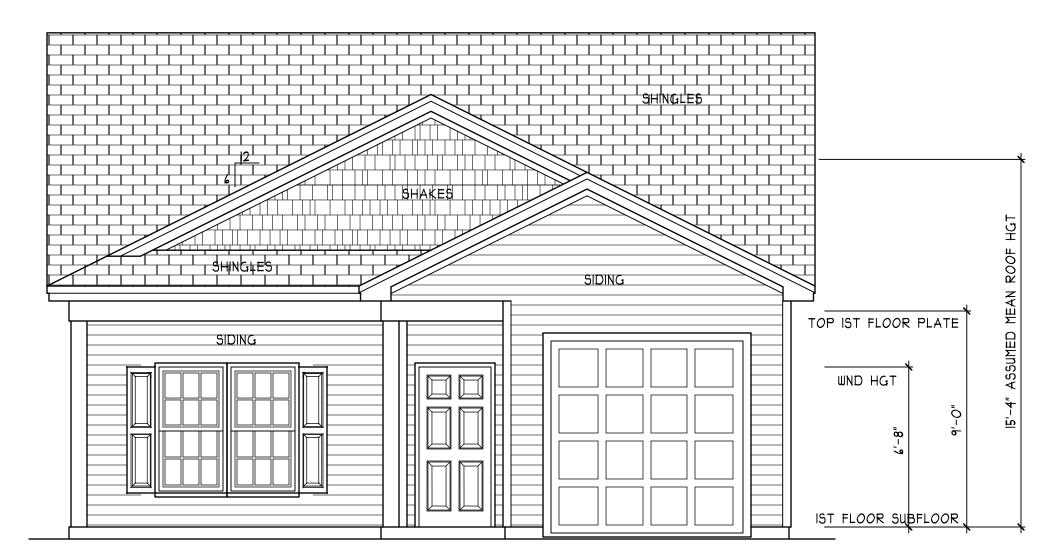
GROSS ATTIC AREA TO BE VENTILATED 1631 SQ.FT. 1631/150 = 10.8 SQ.FT. NET FREE AREA

ENERGY COMPLIANCE

ZONE 3 = MAX. GLAZING U-FACTOR .35

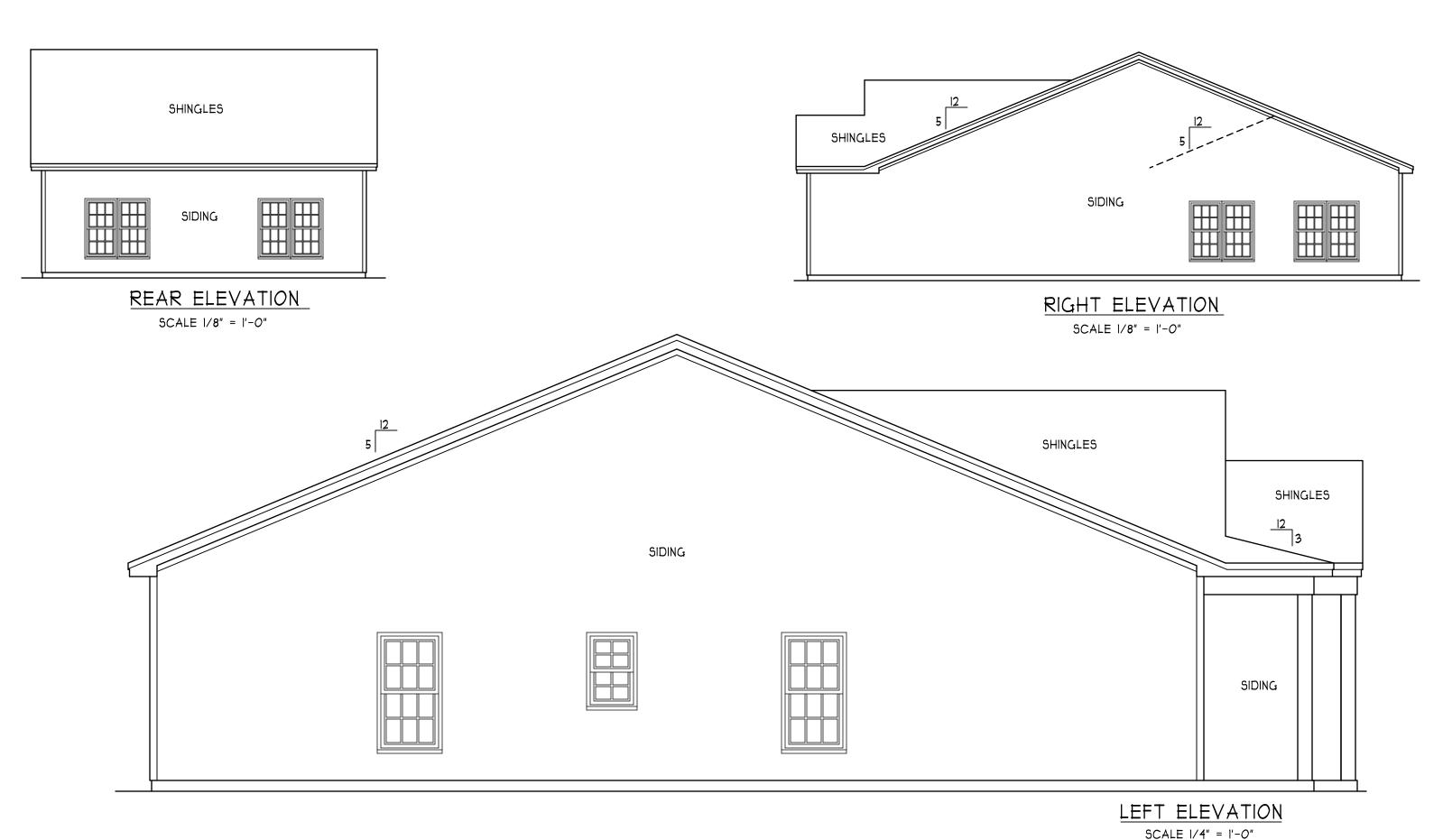
R-VALUE = CEILING R38, WALLS R15,

FLOORS R19 FOR NEW HANOVER, BURNSWICK, PENDER AND ONSLOW COUNTIES



# FRONT ELEVATION

SCALE 1/4" = 1'-0"



BLDRS HERRING

ROMAN THE

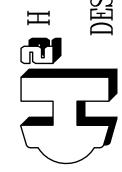
 $\overline{\zeta}$ 

1271 112 248 H H H

FIRST FLOOR PORCH GARAGE

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

H SQUARED HOME DESIGN, INC.



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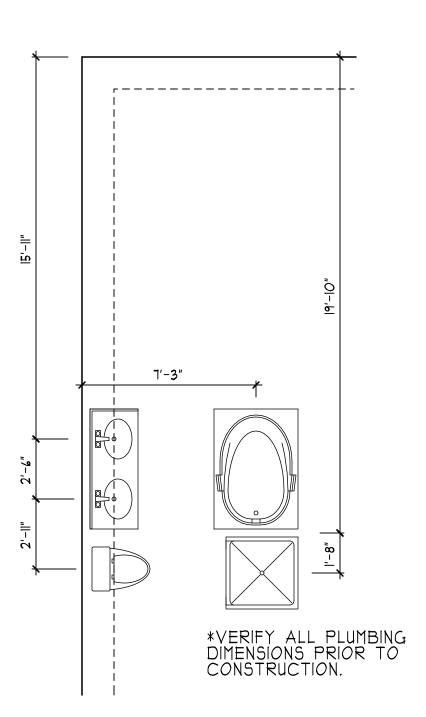
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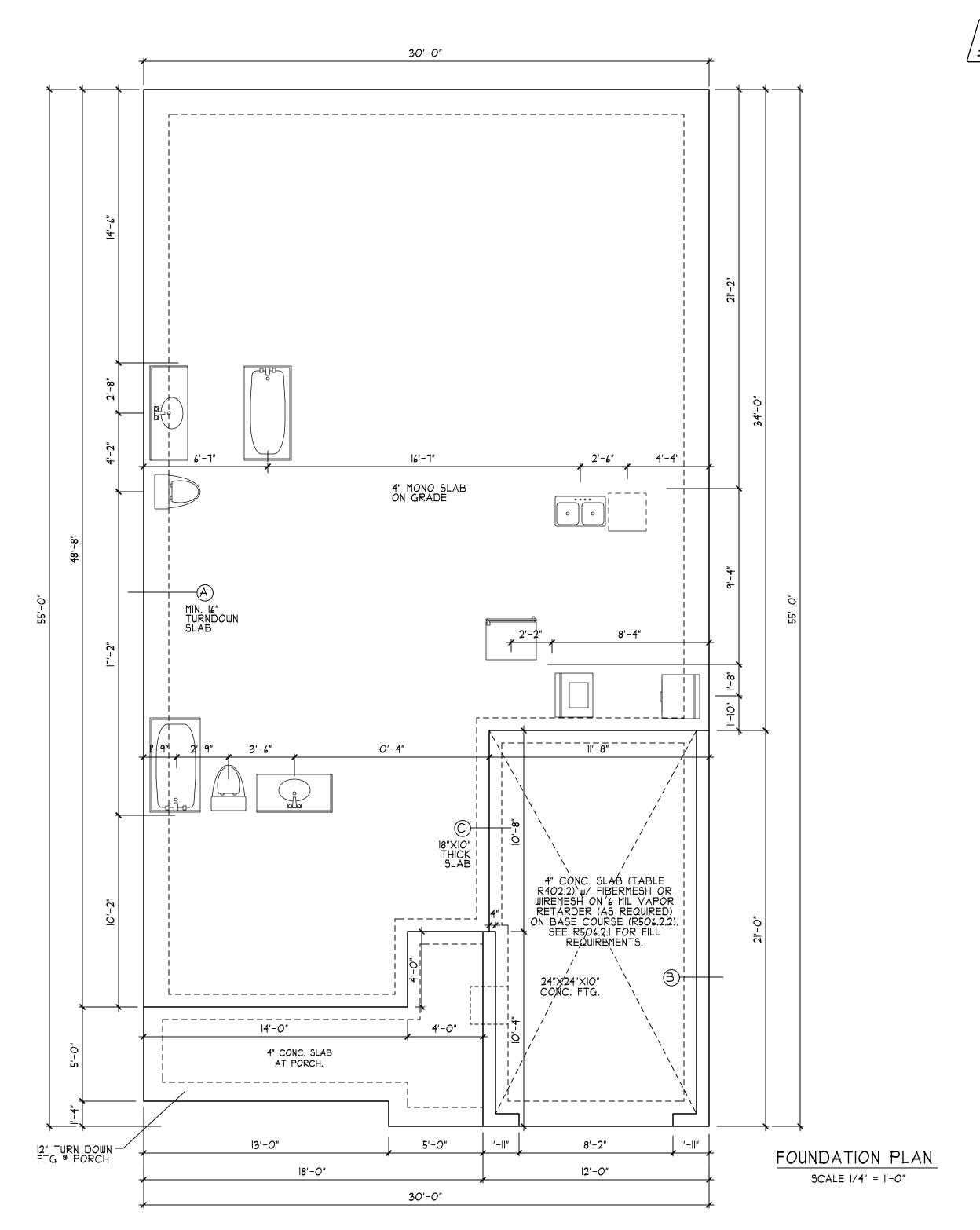
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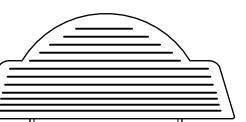
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## DAMP PROOFING

FOR DAMP PROOFING & WATER PROOFING REFER TO SECTION 405 & 406 IN 2018 EDITION NC RES. CODES





THE ROMAN RIGHT SIDE GARAGE HERRING BLDRS

0.71

#127

OR = 1271 = 112 = 248

SQUARE FOOTAGE:
FIRST FLOOR
PORCH
GARAGE

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

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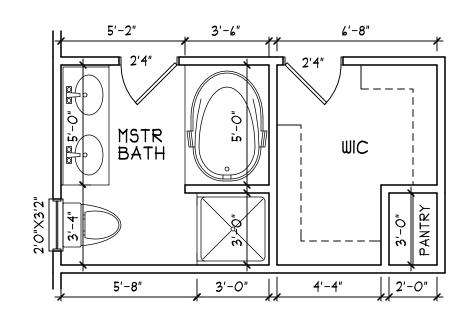
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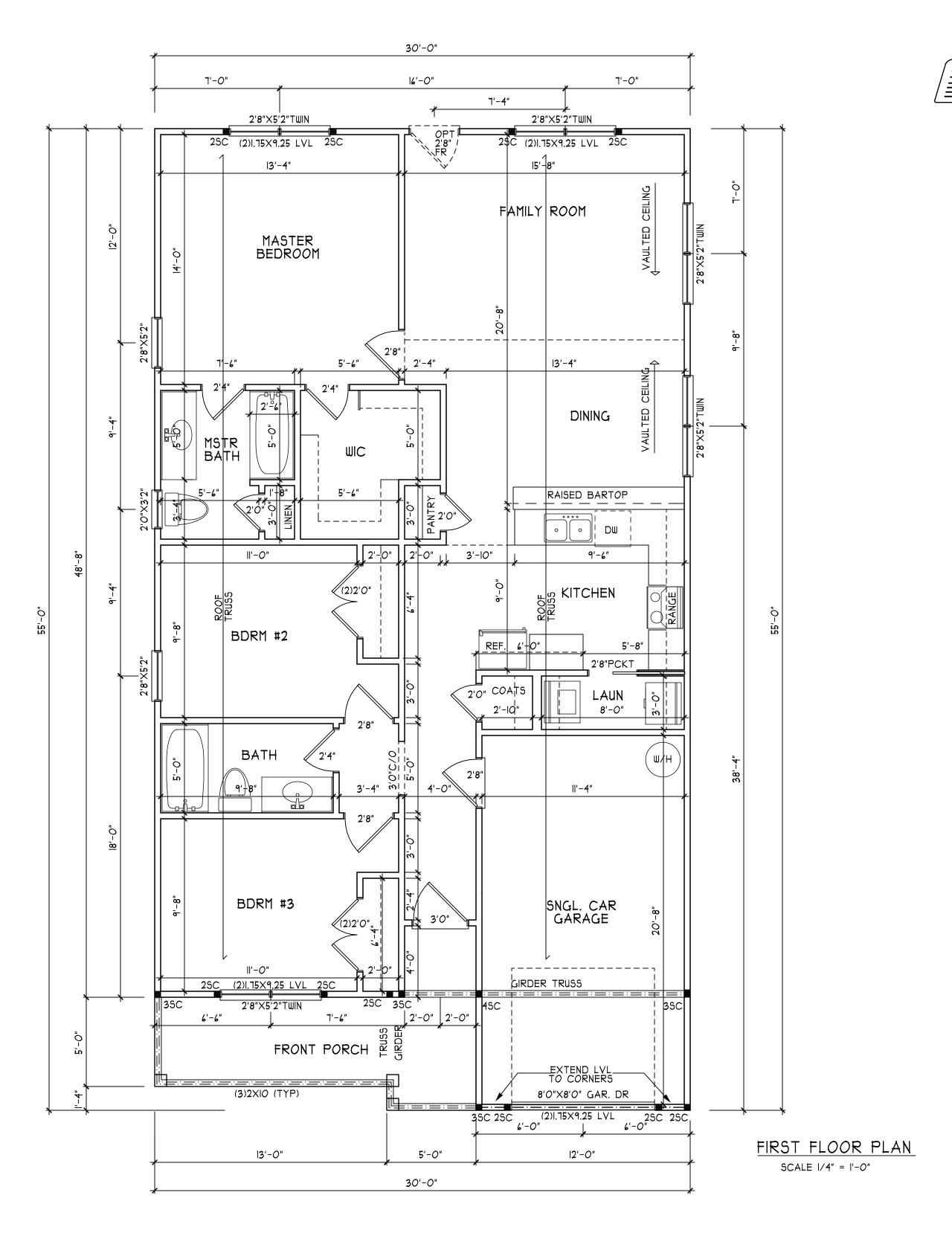
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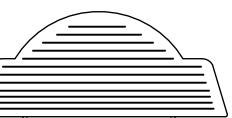
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### OPTIONAL BATH LAYOUT

- HEADER/BEAM & COLUMN NOTES
- I. 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.
- 2. 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: (I) KING STUD - OVER 4' UP TO 8' SPAN: (2) KING STUDS - OVER 8' UP TO II' SPAN: (3) KINGS STUDS - OVER II' SPAN: (4) KING STUDS
- TRUSS SYSTEM REQUIREMENTS
  NC (2018 NCRC)
- I. 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.





THE ROMAN RIGHT SIDE GARAGE HERRING BLDRS

#1271

= 1271 = 112 = 248

FIRST FLOOR PORCH GARAGE

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

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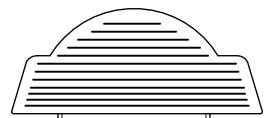
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BLDRS HERRING

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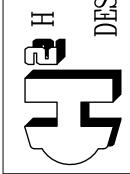
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1271 112 248

FIRST FLOOR PORCH GARAGE

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165 HEATHERSTONE CT
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ROOF PLAN

SCALE 1/4" = 1'-0"

I STORY

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TRUSS SYSTEM REQUIREMENTS NC (2018 NCRC)

I. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS)
SHALL BE DESIGNED IN ACCORDANCE WITH
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PROVIDED BY THE ROOF TRUSS
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TRUSSES SHALL BE COORDINATED WITH THE
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2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.

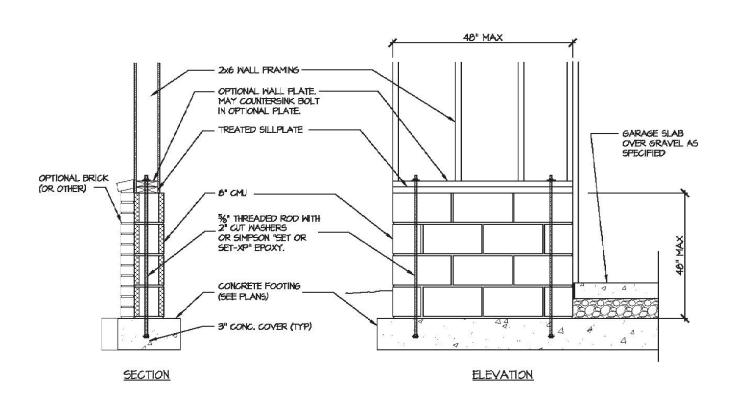
3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

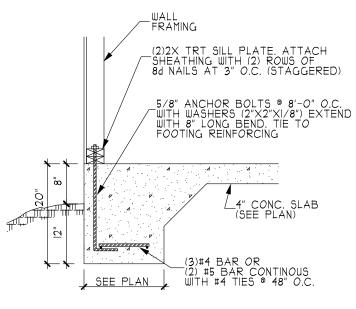
ROMAN

2)	DESIGN LOADS (R301.4)	LIVE LOAD	DEAD LOAD	DEFLECTION
-/	Bloidit 107100 (HJ0117)	(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 STAIL	R 20	10	L/360
	ATTIC WITH OUT STORAGE	10	10	L/2 <del>1</del> 0
	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		

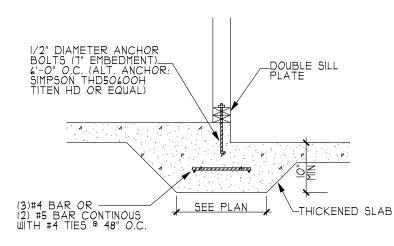
- WIND LOAD (BASED ON 140/150 MPH WIND VELOCITY)
- 3) WALL BRACING: BRACED WALL PANELS SHALL BE CONSTRUCTED ACCORDING TO SECTION R602.10.3. THE AMOUNT AND LOCATION OF BRACING SHALL COMPLY WITH TABLE R602.10.1. THE LENGTH OF BRACED PANELS SHALL BE DETERMINED BY SECTION R602.10.4. LATERAL BRACING SHALL 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(perp) = 425 PSI - MIN).
- 1) L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2400 PSI, Fv=285 PSI, E=1.9x10 PSI. P.S.L. SHALL BE PARALLEL STRAND LUMBER: Fb=2900 PSI, Fv=290 PSI, E=2.0x10 PSI. L.S.L. SHALL BE LAMINATED STRAND LUMBER: Fb=2250 PSI, Fv=400 PSI, E=1.55x10 PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- 8) 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.
- 9) 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 9 48" O.C. ALL STEEL TUBING SHALL BE ASTM A500.
- IO) REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.
- II) 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 6" FROM EACH END.
- 12) 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'-O" (UNO).
- 13) THE POSITIVE AND NEGATIVE DESIGN PRESSURE FOR DOORS AND WINDOWS FOR A MEAN ROOF HEIGHT OF 35 FEET OR LESS SHALL BE 25 PSF.
- 14) PROTECTION OF OPENINGS (R301.2.1.2) AS REQUIRED: GLAZED OPENINGS SHALL BE PROTECTED FROM WINDBORNE DEBRIS PER SECTION R301.2.1.2. NOTE: WOOD STRUCTURAL PANELS WITH MINIMUM THICKNESS OF 1/16" AND MAXIMUM SPAN OF 8'-O" MAY BE USED TO PROTECT THE OPENINGS. THE PANELS SHALL BE: CUT AND ATTACHED PER TABLE R301.2.1.2.



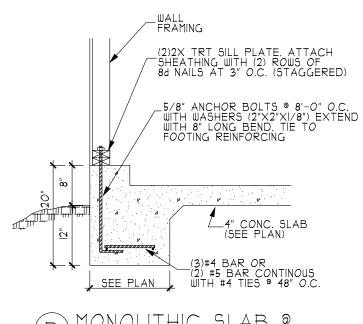
GARAGE 'WING WALL' REINFORCING PER IRC FIGURE R602.10.4.3



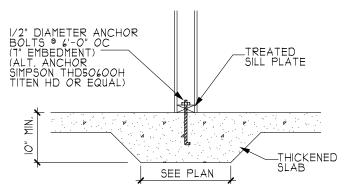




THICKENED SLAB @ GARAGE (INTERIOR GARAGE WALL)



(SIDING OR EQUAL)



<u>thickened slab</u> (INTERIOR BEARING WALL)

#### TRUSS SYSTEM REQUIREMENTS NC (2018 NCRC)

. 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.

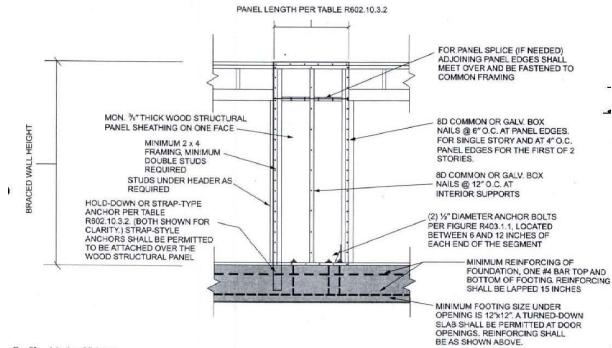
3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR

4. ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS

SCHEMATICS.

#### HEADER/BEAM & COLUMN NOTES

- ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN.
  (2) 2xO (4" WALL) OR (3) 2xIO (6" WALL)
  WITH (1) SUPPORT STUD, UNLESS NOTED OTHERWISE
- 2. 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: (I) KING STUD OVER 4' UP TO 8' SPAN: (2) KING STUDS OVER 8' UP TO II' SPAN: (3) KINGS STUDS OVER II' SPAN: (4) KING STUDS



For SI: 1 inch = 25.4 mm.

#### FIGURE R602.10.3.2 ALTERNATE BRACED WALL PANEL

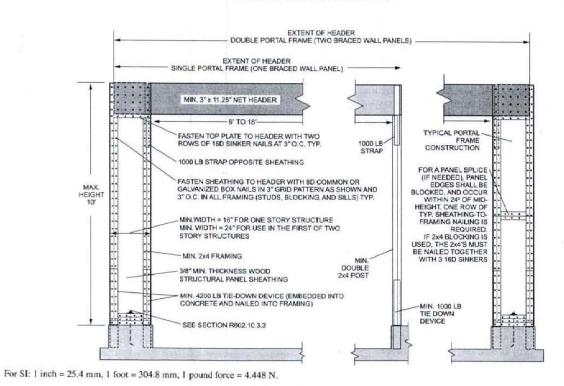


FIGURE R602.10.3.3 METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS

MPH 田 0 5 40

FOR M SHEET  $\Omega$ M

Ш o. ∀ N. X. O Ш PLE/ ALL EVE

00

HEATHER HALL
S5 HEATHERSTONE C
BENSON NC 27504
(919) 207-1403  $\dot{\mathbf{C}}$ 165

SQUARED HOME SIGN, INC. K