Magnolias Seven THE

0 EATED FOOTAGE 0 #13

> 11 11 11 FIRST FLOOR FRONT PORCH REAR PORCH

1360 240 50

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

H SQUARED HOME DESIGN, INC.

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

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

DATE: 05/26/21

FILE: 050521

I STORY

ATTIC VENTILATION:

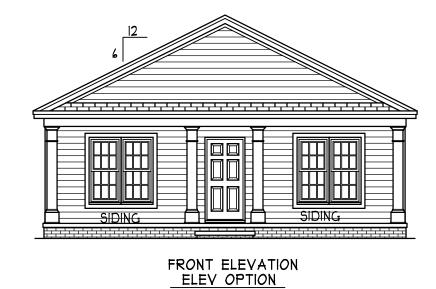
THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN I TO ISO OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE I TO 300, PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE 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 1650 SQ.FT.

1650/150 = 11.0 SQ.FT. NET FREE AREA

ENERGY COMPLIANCE
ZONE 3 = MAX. GLAZING U-FACTOR .35
R-VALUE = CEILING R38, WALLS RIS. FLOORS RIP FOR JOHNSTON, WAYNE COUNTY ZONE 4 = MAX. GLAZING U-FACTOR .35 R-VALUE = CEILING R38, WALLS RIS, FLOORS RI9 FOR WAKE, ORANGE COUNTY

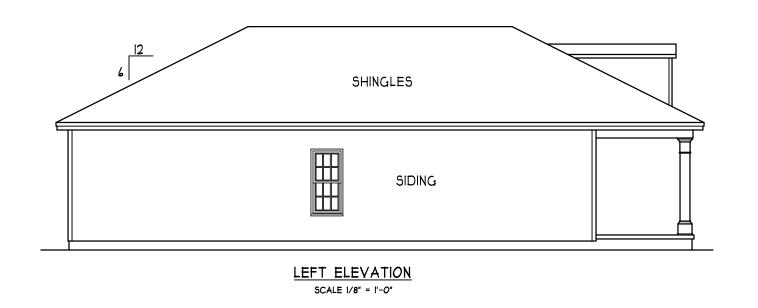


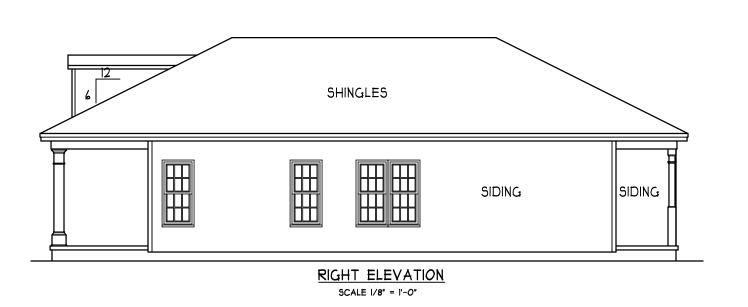


SCALE 1/8" = 1'-0"



REAR ELEVATION SCALE 1/8" = 1'-0"





E CHARLESTON (RIGHT HAND)
In Magnolias Const

THE O

| HEATED FOOTAGE

FIRST FLOOR = 1360 FRONT PORCH = 240 REAR PORCH = 50

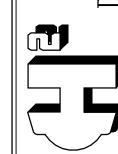
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55'-O" 5'-0" 42'-0" 8'-0" 1'-11" 4" CONC. SLAB (TABLE R402.2) w/FIBERMESH OR WIREMESH ON 6 MILVAPOR RETARDER (AS REQUIRED) ON BASE COURSE (R506.2.2). SEER506.2.1 FOR FILL REQUIREMENTS. VERIFY ALL PLUBING DIM. PRIOR TO CONSTR. 17'-10" 47'-0" 8'-0" 55'-0"

ANCHOR BOLTS

ANCHOR BOLTS TO BE
PLACED WITHIN 12" OF
EVERY CORNER AND FROM
EVERY SPLICE AND AT 6'-0"
O.C. WITH 1" MIN. IN CONC.

DAMP PROOFING

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

STEM WALL SLAB FOUNDATION PLAN SCALE 1/4" = 1'-0" I. ALL EXTERIOR AND LOAD
BEARING HEADERS SHALL BE MIN.
(2) 2xIO (4" WALL) OR (3) 2xIO (6" WALL)
WITH (1) SUPPORT STUD, UNLESS NOTED

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

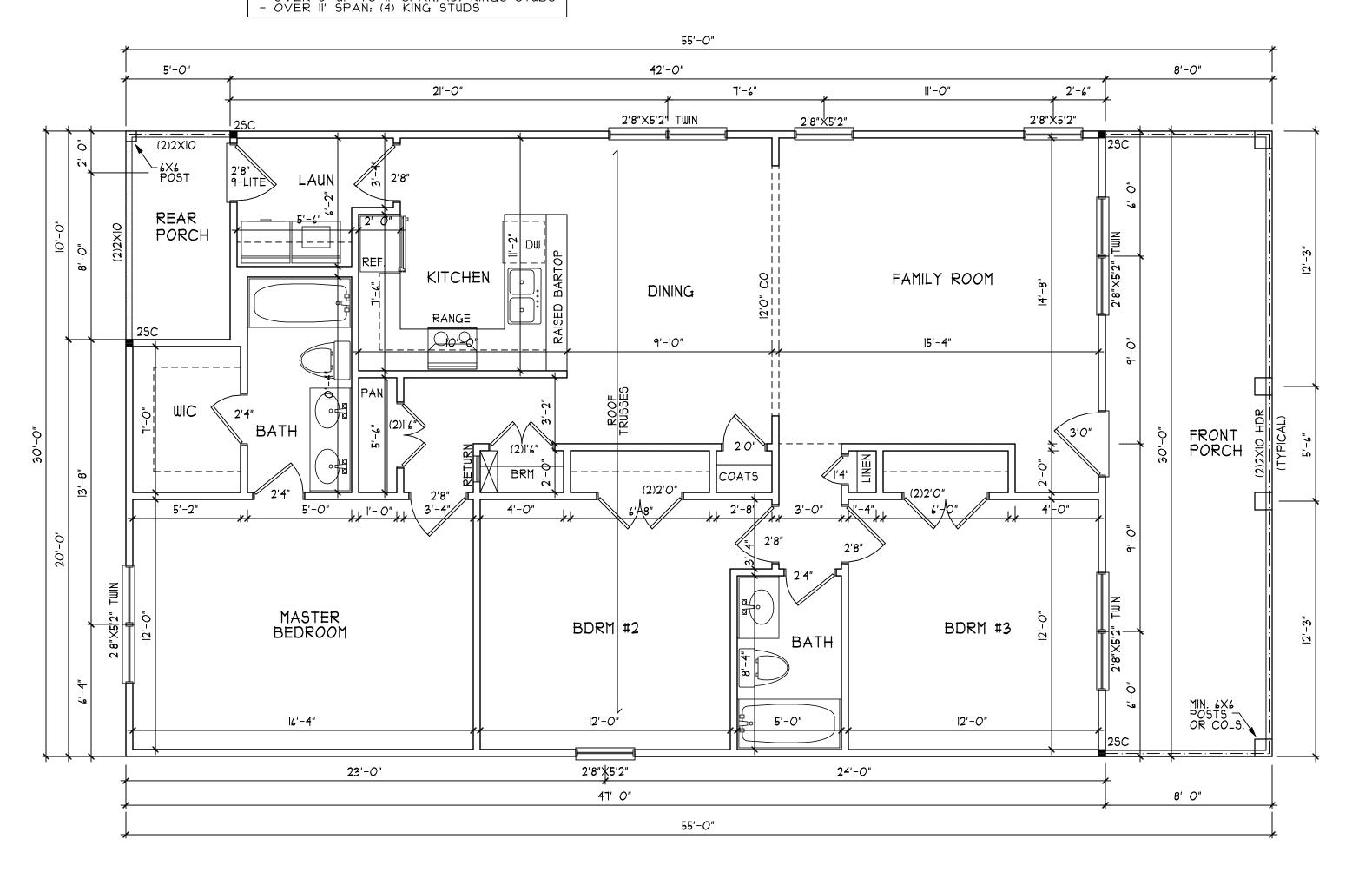
TRUSS SYSTEM REQUIREMENTS

I. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED TRUSS PROFILES. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH THE 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.



CHARLESTO Magnolias

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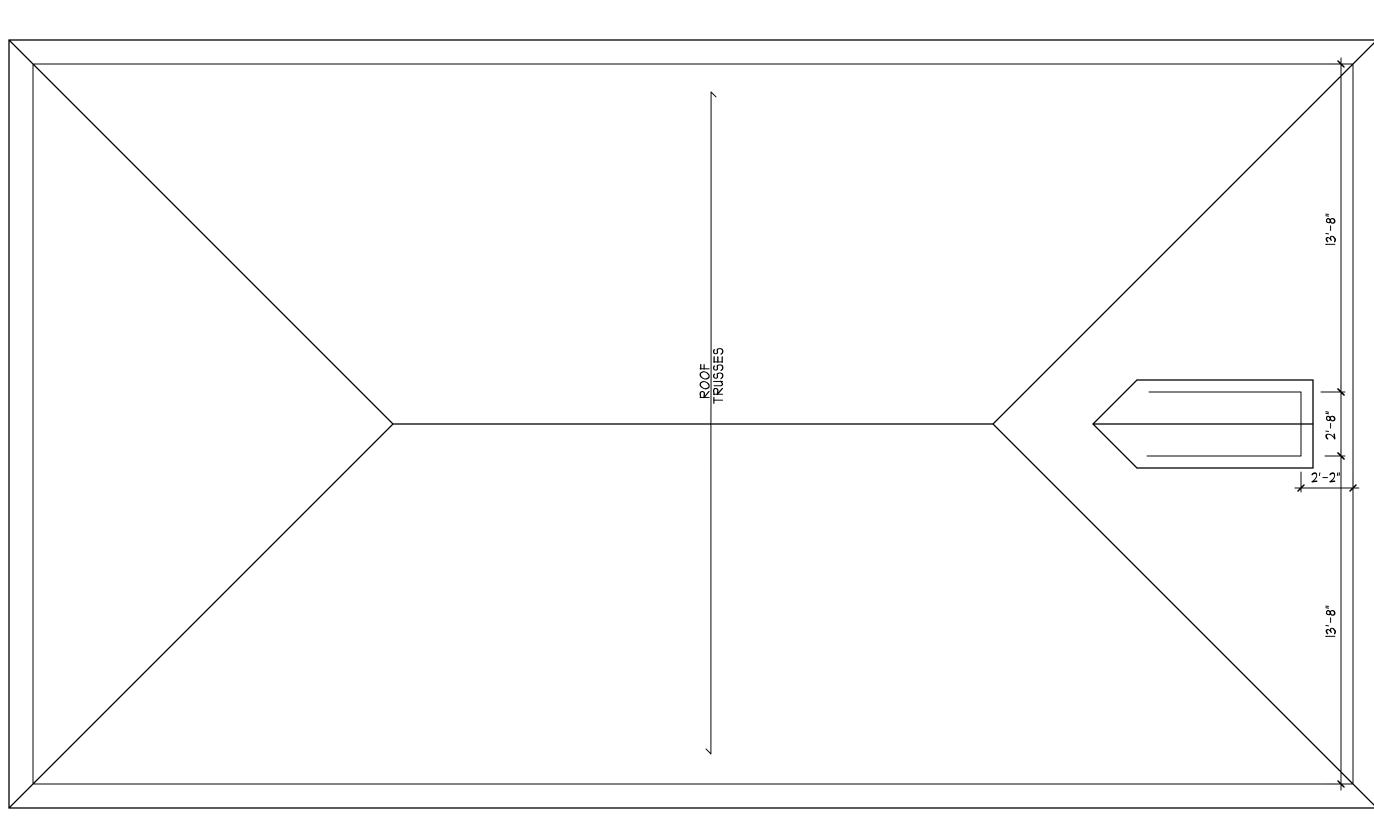
TRUSS SYSTEM REQUIREMENTS
NC (2018 NCRC)

I. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS)
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GABLE OPT.

HIP ROOF

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

CHARLESTON
(RIGHT HAND)
Magnolias Cons

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HEATED FOOTAGE

#1360

= 1360 = 240 = 50

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DATE: 05/26/21

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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.

DESIGN LOADS (R301.4)	LIVE LOAD	DEAD LOAD	DEFLECTION (LL)
ROOMS OTHER THAN SLEEPING RO	•	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/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	io	L/360
SNOW	20		
	ROOMS OTHER THAN SLEEPING ROSLEEPING ROOMS ATTIC WITH PERMANENT STAIR ATTIC WITH OUT PERMANENT STAI ATTIC WITH OUT STORAGE STAIRS EXTERIOR BALCONIES DECKS GUARDRAILS AND HANDRAILS PASSENGER VEHICLE GARAGES FIRE ESCAPES	ROOMS OTHER THAN SLEEPING ROOMS 40 SLEEPING ROOMS 30 ATTIC WITH PERMANENT STAIR 40 ATTIC WITH OUT PERMANENT STAIR 20 ATTIC WITH OUT STORAGE 10 STAIRS 40 EXTERIOR BALCONIES 40 DECKS 40 GUARDRAILS AND HANDRAILS 200 PASSENGER VEHICLE GARAGES 50 FIRE ESCAPES 40	ROOMS OTHER THAN SLEEPING ROOMS 40 IO SLEEPING ROOMS 30 IO ATTIC WITH PERMANENT STAIR 40 IO ATTIC WITH OUT PERMANENT STAIR 20 IO ATTIC WITH OUT STORAGE IO IO STAIRS 40 EXTERIOR BALCONIES 40 IO DECKS 40 IO GUARDRAILS AND HANDRAILS 200 PASSENGER VEHICLE GARAGES 50 IO FIRE ESCAPES 40 IO

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 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) ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (I) 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=2600 PSI, Fv=285 P\$I, E=I.9x10 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 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.
- 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 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.
- 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 - 7:12 TO 12:12 PITCH WALLS:

24.1 PSF - WALLS

TRUSS SYSTEM REQUIREMENTS

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

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

I. ALL EXTERIOR AND LOAD
BEARING HEADERS SHALL BE MIN.
(2) 2xIO (4" WALL) OR (3) 2xIO (6" WALL)
WITH (1) SUPPORT STUD, UNLESS NOTED

2. THE NUMBER SHOWN AT BEAM AND HEADER SUPPORTS INDICATES THE NUMBER OF SUPPORT STUDS REQUIRED IN STUD POCKET OR

TO 4' SPAN: (I) KING STUD

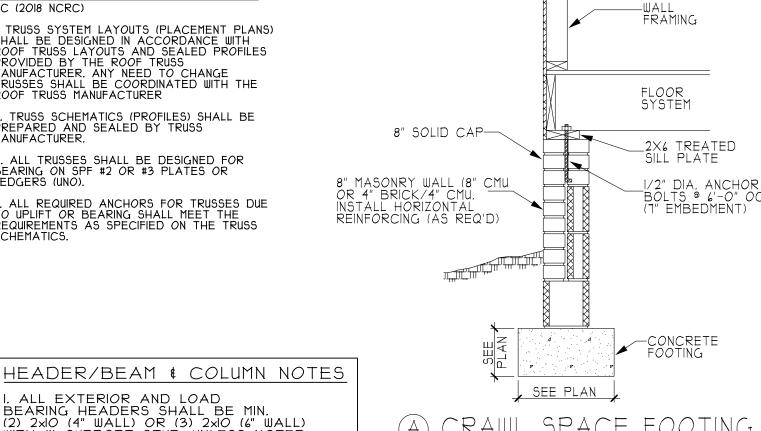
OVER II' SPAN: (4) KING STUDS

COLUMN. THE NUMBER OF KING STUDS AT

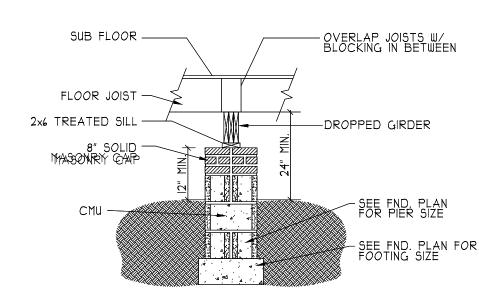
EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW:

- OVER 4' UP TO 8' SPAN: (2) KING STUDS - OVER 8' UP TO II' SPAN: (3) KINGS STUDS

OTHERWISE.



(SIDING W/ BRICK SKIRT)



(B) DROPPED GIRDER

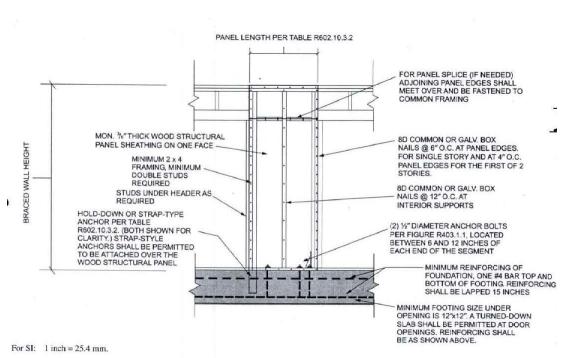


FIGURE R602 10 3 2 ALTERNATE BRACED WALL PANEL

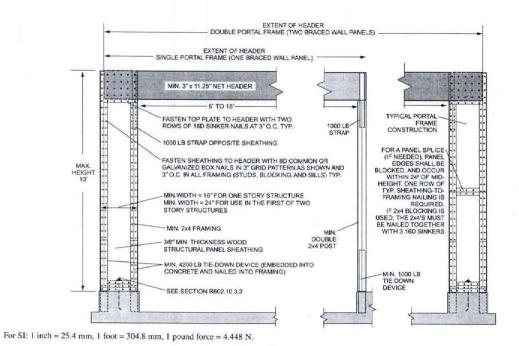
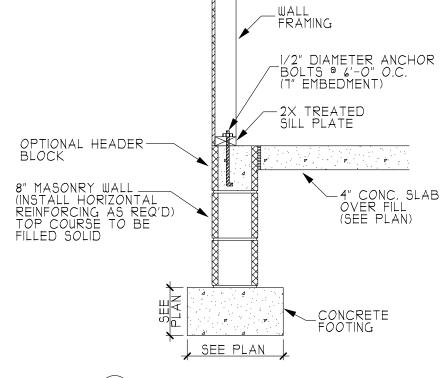
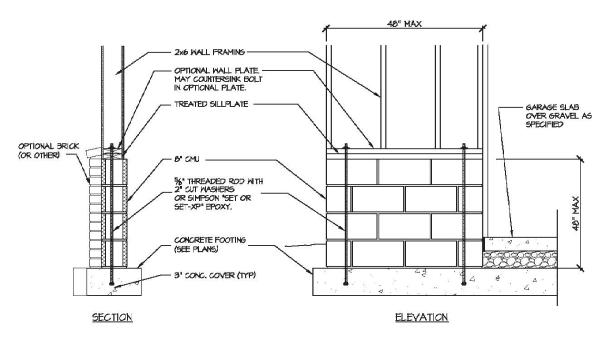


FIGURE R602.10.3.3 METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS



STEM WALL FOOTING



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

BUILDIN SHEET O MPH) SIC

0 'AIL -120 ET. 15. \triangleleft m

> 92 NOTE AILS / PLAN. ASE DET PLE/ ALL EVE

HEATHER HALL
35 HEATHERSTONE C'
BENSON NC 27504
(919) 207-1403 $\dot{\mathcal{O}}$

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DATE:

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