

ATTIC VENTILATION:

THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN I TO 150 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.

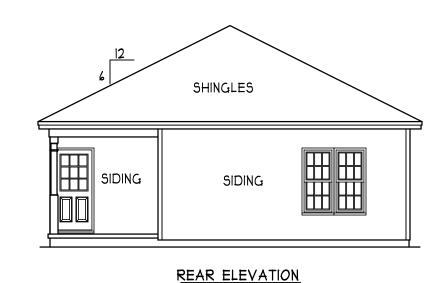
GROSS ATTIC AREA TO BE VENTILATED 1650 SQ.FT. 1650/150 = 11.0 SQ.FT. NET FREE AREA

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



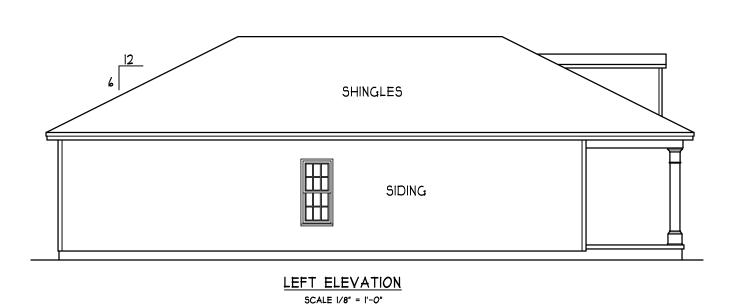
FRONT ELEVATION SCALE 1/4" = 1'-0"

SIDING

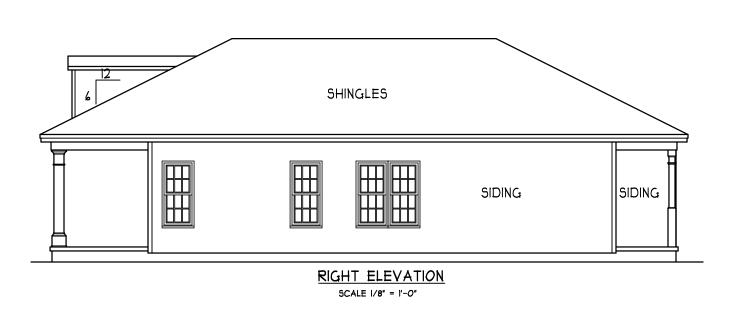


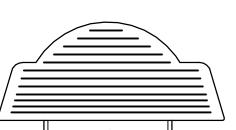
SCALE 1/8" = 1'-0"

FRONT ELEVATION _ ELEV OPTION _ SCALE 1/8" = 1'-0"



IST FLOOR SUBFLOOR





CHARLESTON Magnolias

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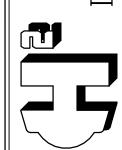
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0 EATED FOOTAGE 0 #13

> 1360 240 50 11 11 11 FIRST FLOOR FRONT PORCH REAR PORCH

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 I STORY

FILE: 050521

E CHARLESTON
(RIGHT HAND)
In Magnolias Const

неатер *гоо*таде: #1360

FIRST FLOOR FRONT PORCH REAR PORCH

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

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DATE: 05/26/21

I STORY

FILE:

050521

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'-O"

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

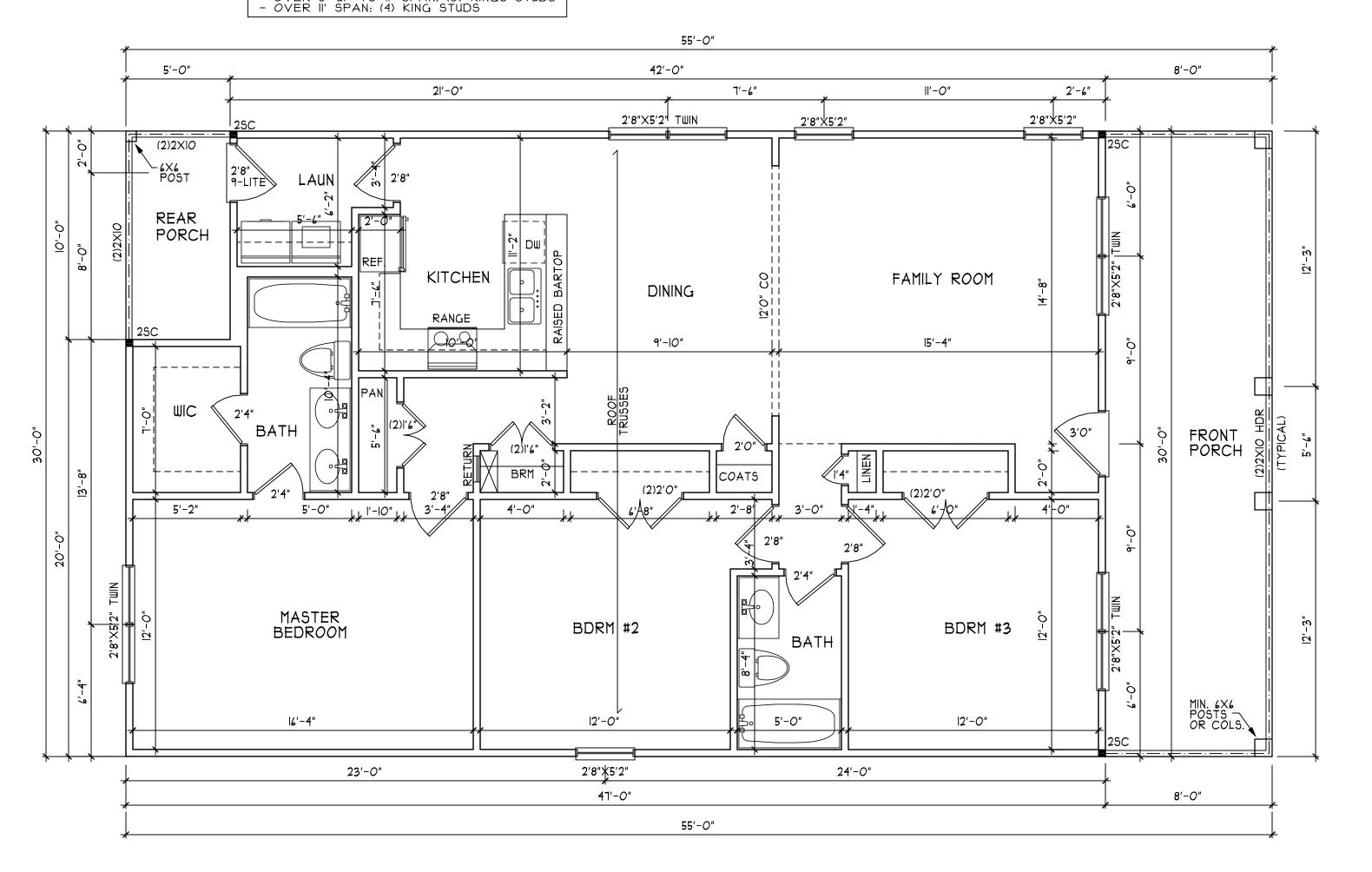
TRUSS SYSTEM REQUIREMENTS

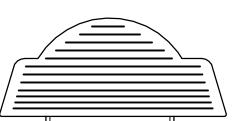
I. TRUSS SYSTEM LAYOUTS (PLACEMENT PLANS) SHALL BE DESIGNED IN ACCORDANCE WITH SEALED TRUSS PROFILES. ANY NEED TO CHANGE TRUSSES SHALL BE COORDINATED WITH THE TRUSS MANUFACTURER.

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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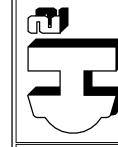
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> 11 11 11 FIRST FLOOR FRONT PORCH REAR PORCH

1360 240 50

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

H SQUARED HOME DESIGN, INC.



DATE: 05/26/21

FILE: 050521

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INC.'S LIABILITY.

THIS PLAN HAS BEEN DRAWN
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DATE: 05/26/21

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TRUSSES

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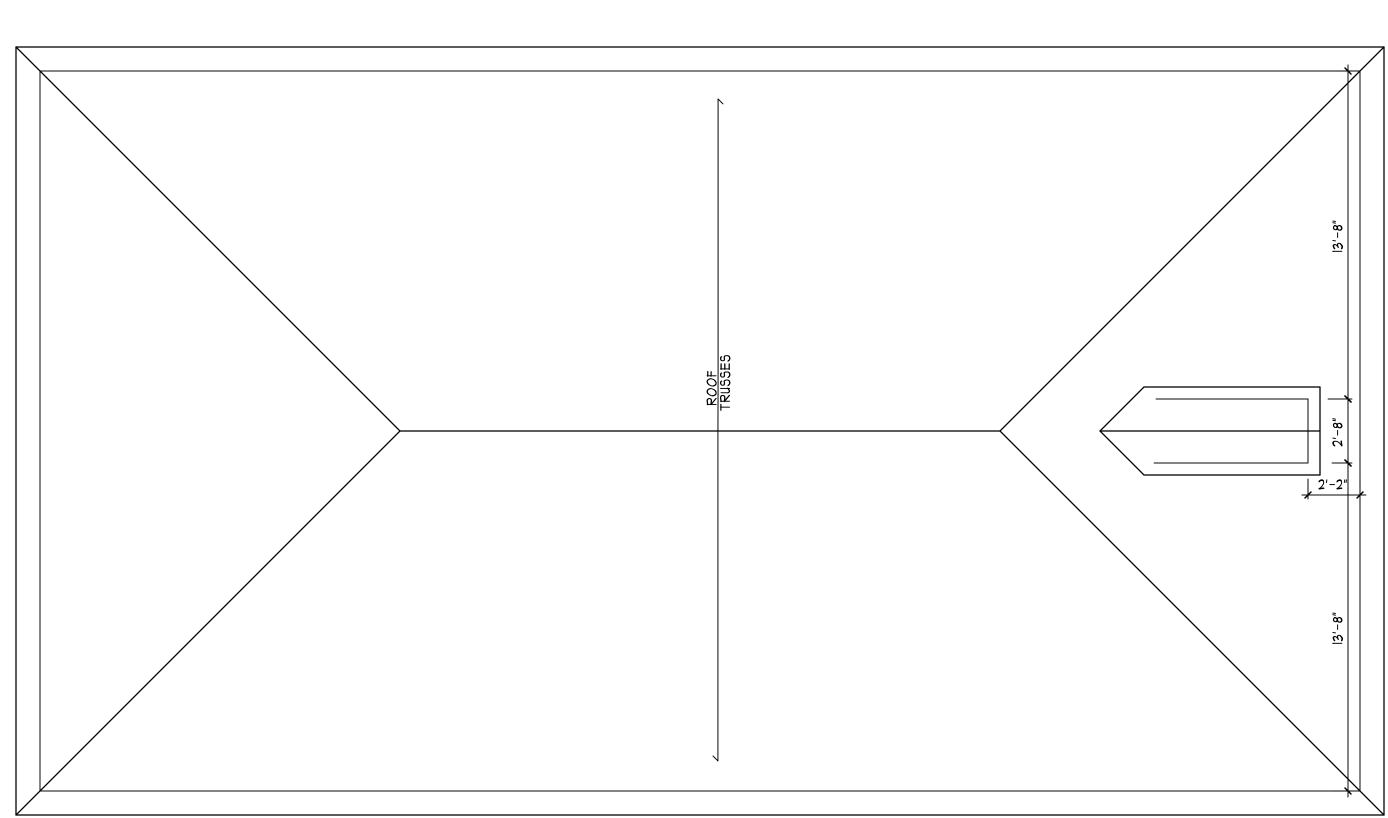
TRUSS SYSTEM REQUIREMENTS
NC (2018 NCRC)

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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.



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 LO		D LOAD DE PSF)	EFLECTION (LL)
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	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 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		io	L/360
	SNOW	20			
	WIND LOAD (BASED ON 115/120 MF	H WIND '	VELOCITY	€ EXPOSURE	E 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).

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(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

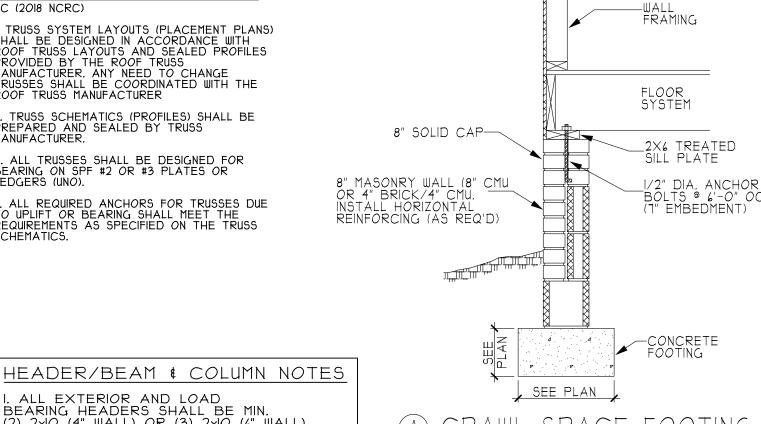
OVER II' SPAN: (4) KING STUDS

COLUMN. THE NUMBER OF KING STUDS AT

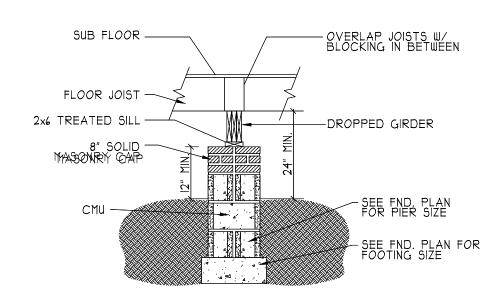
EACH END OF HEADERS IN EXTERIOR WALLS SHALL BE ACCORDING TO ITEM "d" IN TABLE R602.3(5) OR AS BELOW:

- 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

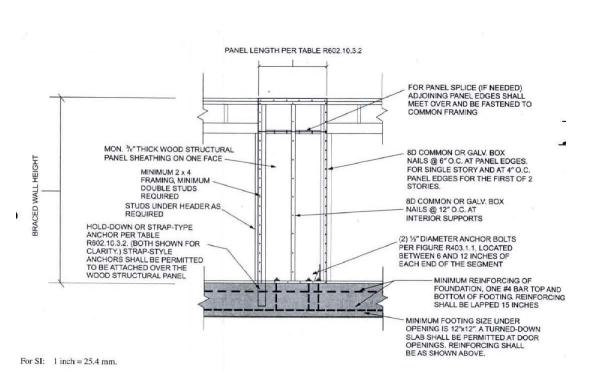


FIGURE R602 10 3 2 ALTERNATE BRACED WALL PANEL

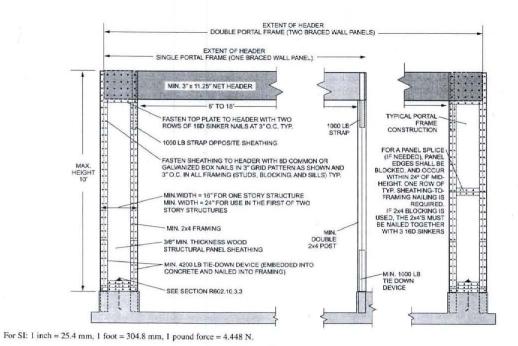
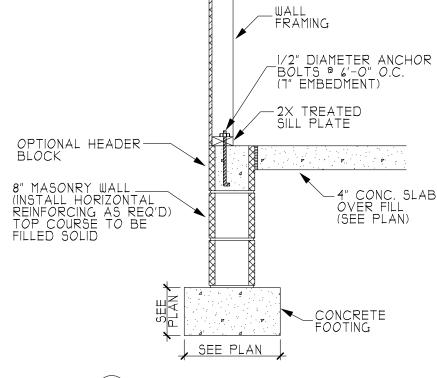
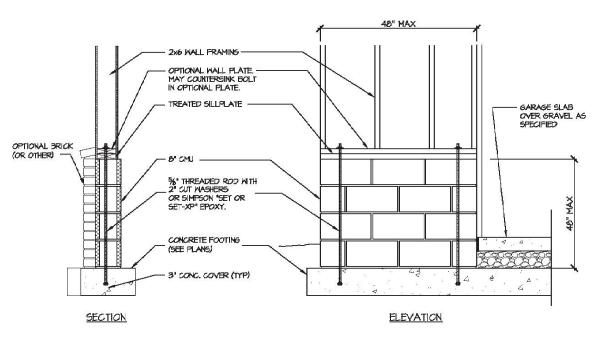


FIGURE R602.10.3.3 METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS



STEM WALL FOOTING



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

BUILDIN SHEET O MPH) SIC

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

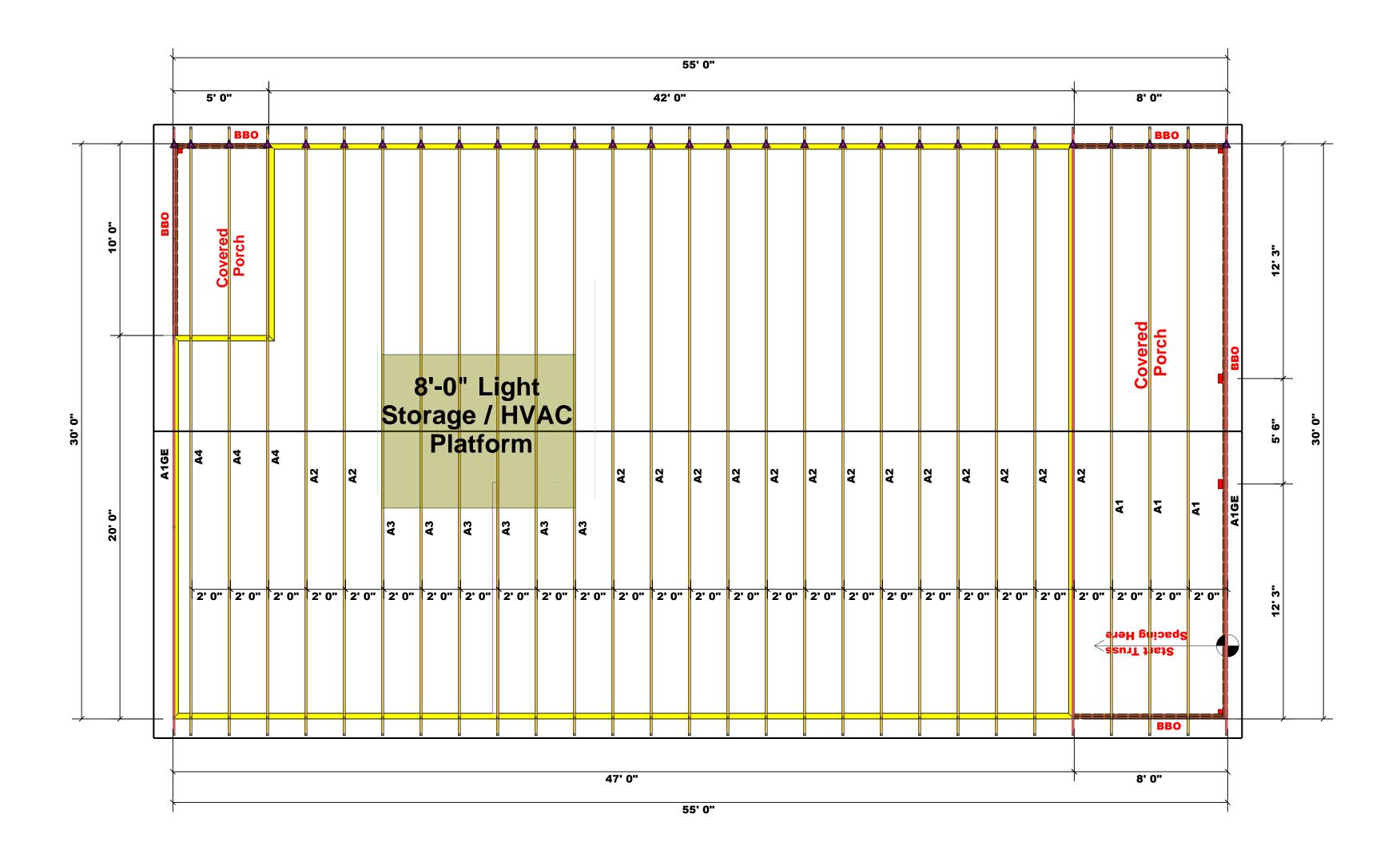
HEATHER HALL
35 HEATHERSTONE C'
BENSON NC 27504
(919) 207-1403 $\dot{\mathcal{O}}$

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

DATE:

FILE:



	Estir	mation	
Name	Selection	Formula	Calculation
Roof Area	1st Floor	Roof Area	2030.35
Roof Decking	1st Floor	Roof Decking	70

Truss Placement Plan SCALE: 1/4" = 1'-0" ▲= Denotes Left End of Truss (Reference Engineered Truss Drawing)

All Truss Reactions are Less than 3,000 lbs. Unless Noted Otherwise.

-- Denotes Reaction Greater than 3,000 lbs.

Reaction / # of Studs

ĺ	соттесн
	ROOF & FLOOR
l٦	RUSSES & BEAMS

Reilly Road Industrial Park Fayetteville, N.C. 28309 Phone: (910) 864-8787 Fax: (910) 864-4444

deemed to comply with the prescriptive Code requirements. The contractor shall refer to the attached Tables (derived from the prescriptive Code requirements) to determine the minimum foundation size and number of wood studs required to support reactions greater than 3000# but not greater than 15000#. A registered design professional shall be retained to design the support system for any reaction that exceeds those specified in the attached Tables. A registered design professional shall be retained to design the support system for all reactions that exceed 15000#.

ture Lenny Norris

Lenny Norris

LOAD CHART FOR JACK STUDS
(BASED ON TABLES R502.5(1) & (b))

	(B	ASED O	IN IMPLES	S KUUZ.	.υ(1) α (I	וונ	
NU	MBER C		STUDS R			A END OF	=
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	REO'D STUDS FOR
700	1		2550	1		3400	
3400	2		5100	2		6800	- 7
5100	3		7650	3		10200	
800	4		10200	4		13600	
3500	5		12750	5		17000	
0200	6		15300	6			
1900	7						
3600	8						
5300	9						

uction	CITY / CO.	CITY / CO. Coats / Harnett
	ADDRESS	649 South Lincoln St.
	WODEL	Roof
	DATE REV. //	//
	DRAWN BY	DRAWN BY Lenny Norris
	SALES REP.	SALES REP. Lenny Norris

BUILDER Seven Magnolias Constru

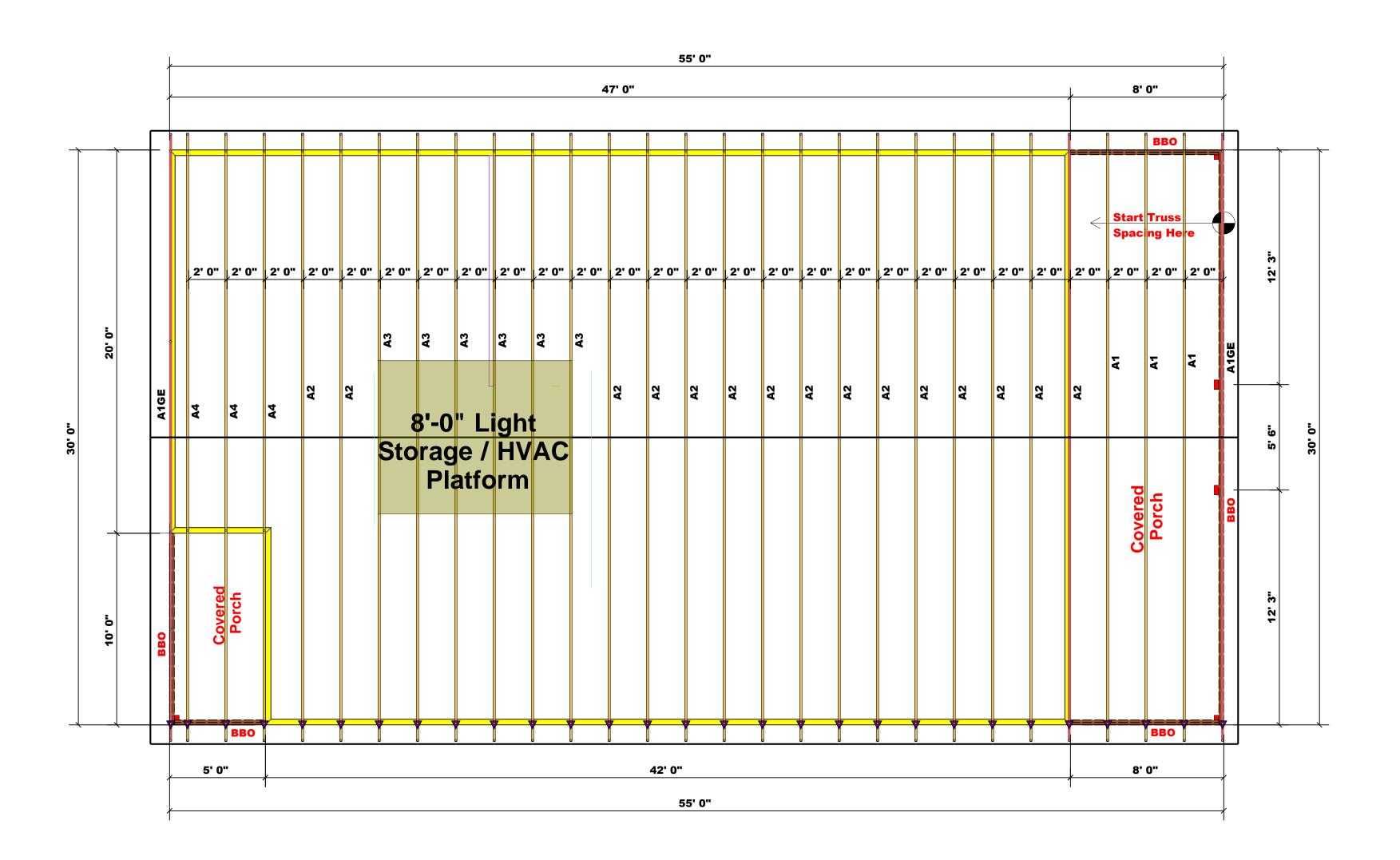
JOB NAME 649 South Lincoln St.

PLAN The Charleston / Right

SEAL DATE Seal Date

QUOTE # J0423-1817

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 BCSI-B1 and BCSI-B3 provided with the truss delivery package or online @ sbcindustry.com



	Estir	mation	
Name	Selection	Formula	Calculation
Roof Area	1st Floor	Roof Area	2030.35
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ROOF & FLOOR
I HOOF WILCOM

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Lenny Norris

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(BASED ON TABLES R502.5(1) & (b))

	(B	ASED O	N TABLE:	5 R502.	5(1) & (l	o))	
NUM	MBER C		STUDS F			A END	OF
END REACTION (UP TO)	REQ'D STUDS FOR (2) PLY HEADER		END REACTION (UP TO)	REQ'D STUDS FOR (3) PLY HEADER		END REACTION (UP TO)	4 C C C C C C C C C C C C C C C C C C C
1700	1		2550	1		3400)
3400	2		5100	2		6800)
5100	3		7650	3		1020	0
6800	4		10200	4		1360	0
8500	5		12750	5		1700	0
10200	6		15300	6			
11900	7						
13600	8						
15300	9						

uction	CITY / CO.	CITY / CO. Coats / Harnett	15300
	ADDRESS	649 South Lincoln St.	9
	MODEL	Roof	
	DATE REV. //	//	
	DRAWN BY	DRAWN BY Lenny Norris	
	SALES REP.	SALES REP. Lenny Norris	

JOB NAME 649 South Lincoln St.

PLAN The Charleston / Right
SEAL DATE Seal Date
QUOTE # J0423-1817

Seven Magnolias Constr

BUILDER

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