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

APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

02/19/2021

Harnett COUNTY NORTH CAROLINA

## ATTIC VENTILATION:

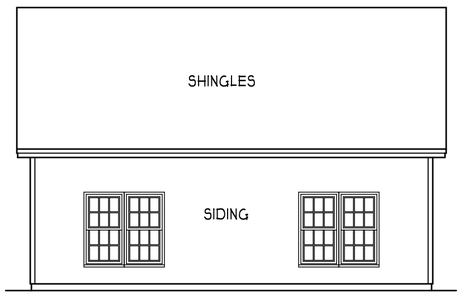
THE NET FREE VENTILATING AREA SHALL BE NOT LESS THAN 1 TO 150 OF THE AREA OF THE SPACE VENTILATED EXCEPT THAT THE AREA MAY BE 1 TO 300 , PROVIDED AT LEAST 50 PERCENT OF THE REQUIRED VENTILATING AREA IS PROVIDED BY VENTILATORS LOCATED IN THE UPPER PORTION OF THE SPACE TO BE VENTILATED AT LEAST 3 FEET ABOVE 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.

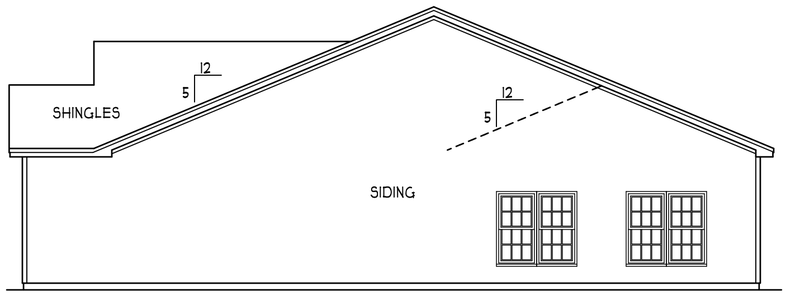
1631/150 = 10.8 SQ.FT. NET FREE AREA

**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

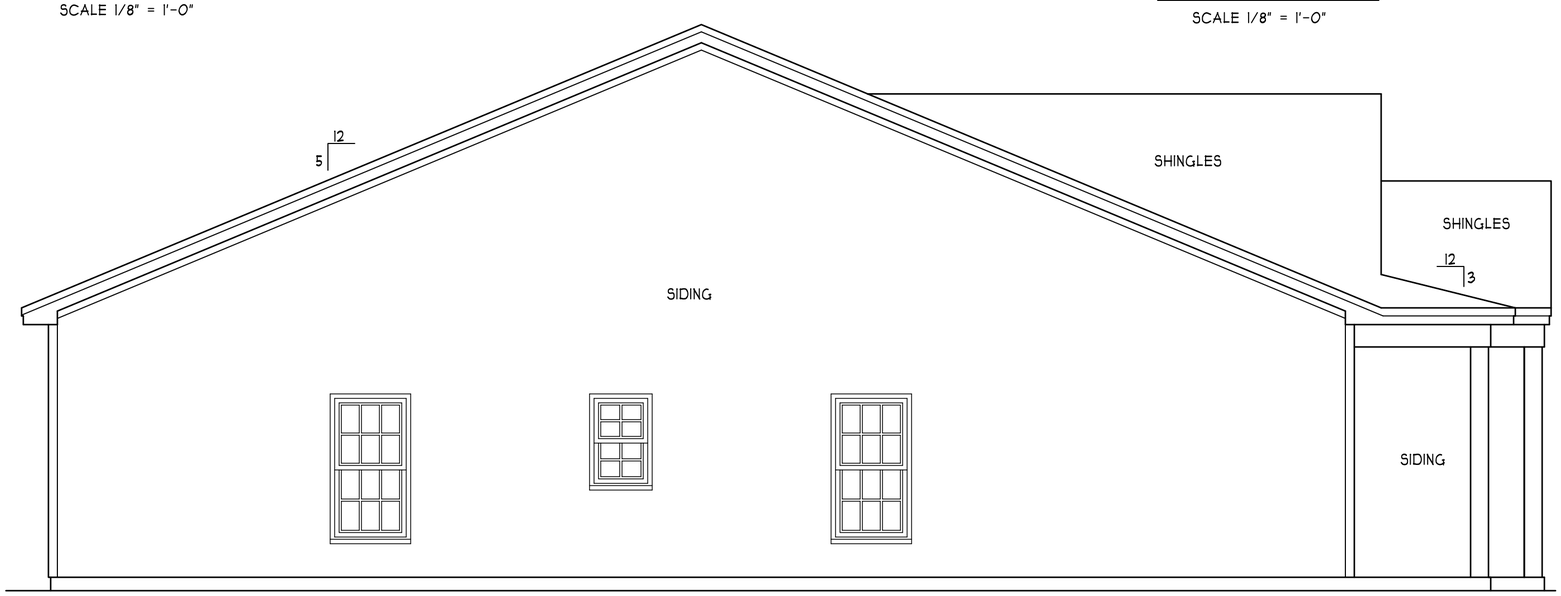

FRONT ELEVATION
SCALE 1/4" = 1'-0"




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




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




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

THE ROMAN
RIGHT SIDE GARAGE
HERRING BLDRS

HEATED FOOTAGE: #1271

SQUARE FOOTAGE:
FIRST FLOOR = 1271
PORCH = 112
GARAGE = 248


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.

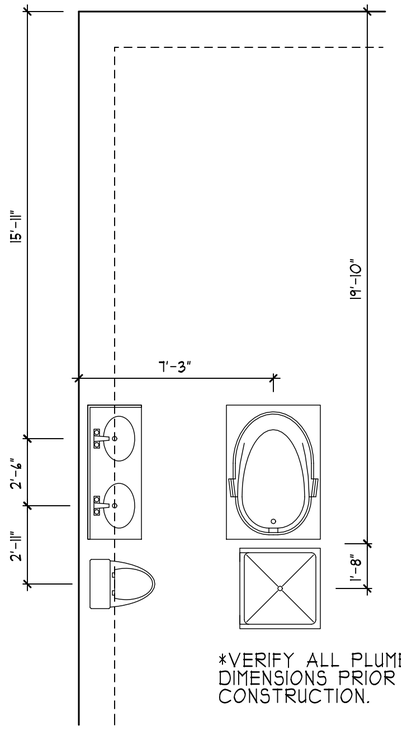
THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

THIS PLAN IS TO ONLY BE BUILT BY THE ABOVE CITED BUILDER OR HOMEOWNER. NOT FOR MULTIPLE BUILDS UNLESS APPROVED BY H SQUARED.

DATE: 08/07/2020

1 STORY

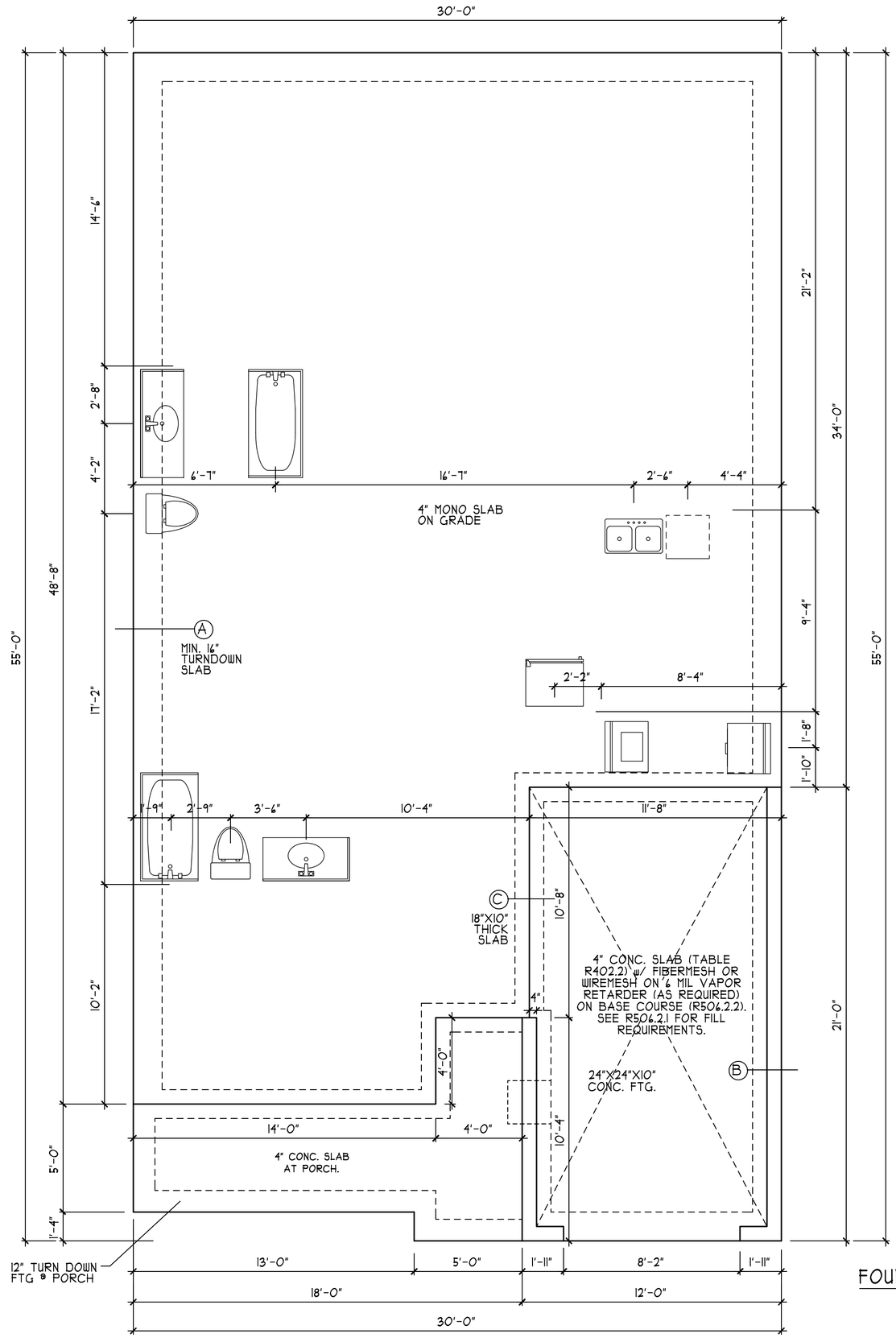
FILE: 071820RT




*VERIFY ALL PLUMBING DIMENSIONS PRIOR TO CONSTRUCTION.

## DAMP PROOFING

FOR DAMP PROOFING & WATER PROOFING REFER TO SECTION 405 & 404 IN 2018 EDITION NC RES. CODES




## FOUNDATION PLAN

SCALE 1/4" = 1'-0"

THE ROMAN
RIGHT SIDE GARAGE
HERRING BLDRS

HEATED FOOTAGE: #1271

SQUARE FOOTAGE:

| | |
|---|---|
| FIRST FLOOR | = 1271 |
| PORCH | = 112 |
| GARAGE | = 248 |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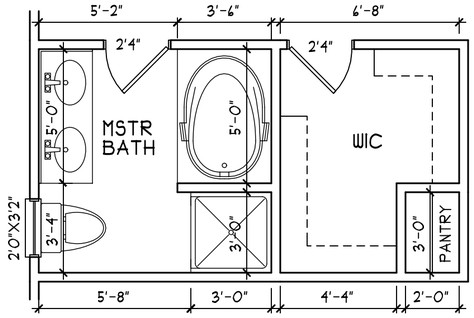
DATE: 08/07/2020

1 STORY

FILE: 071820RT




OPTIONAL BATH LAYOUT

## HEADER/BEAM & COLUMN NOTES

1. 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: (1) KING STUD
- OVER 4' UP TO 8' SPAN: (2) KING STUDS
- OVER 8' UP TO 11' SPAN: (3) KINGS STUDS
- OVER 11' SPAN: (4) KING STUDS

## TRUSS SYSTEM REQUIREMENTS

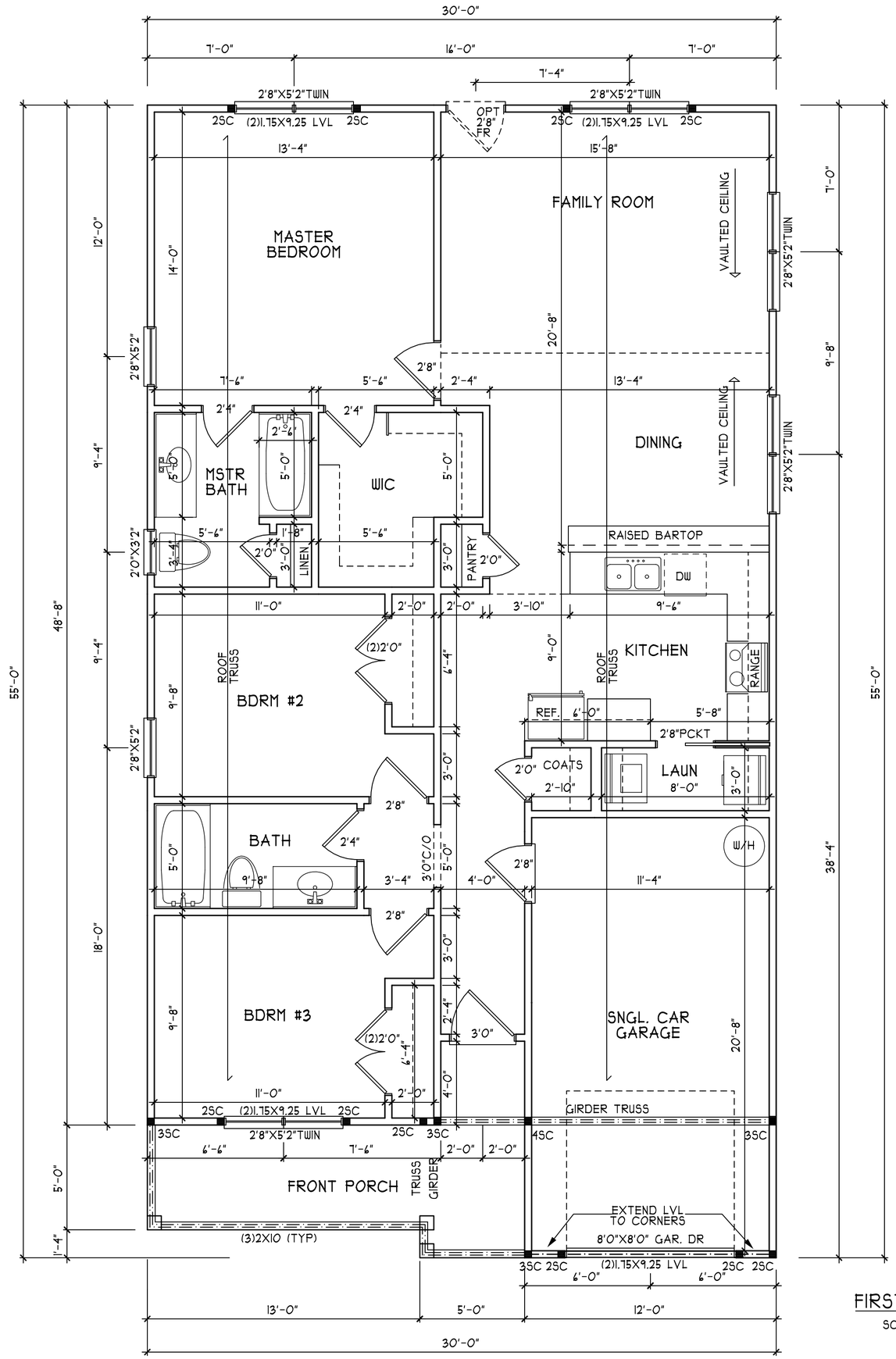
NC (2018 NCRC)

1. 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.




## FIRST FLOOR PLAN

SCALE 1/4" = 1'-0"

THE ROMAN
RIGHT SIDE GARAGE
HERRING BLDRS

HEATED FOOTAGE: #1271

SQUARE FOOTAGE:

| | |
|---|---|
| FIRST FLOOR | = 1271 |
| PORCH | = 112 |
| GARAGE | = 248 |

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DATE: 08/07/2020

1 STORY

FILE: 071820RT

## TRUSS SYSTEM REQUIREMENTS

NC (2018 NCRC)

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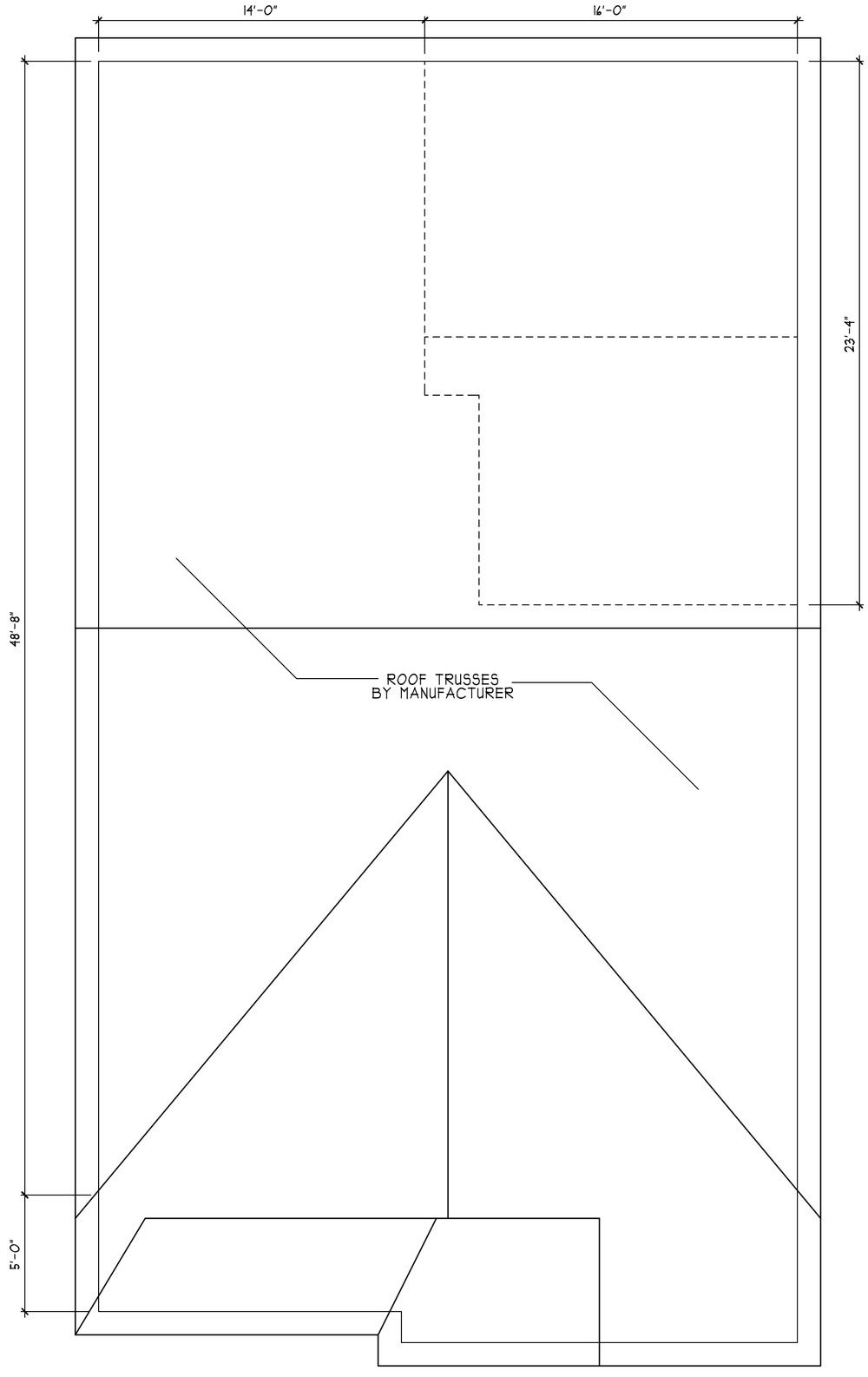
2. TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.

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.




ROOF PLAN

SCALE 1/4" = 1'-0"

THE ROMAN

RIGHT SIDE GARAGE

HERRING BLDRS

HEATED FOOTAGE: #1271

SQUARE FOOTAGE:

| | |
|---|---|
| FIRST FLOOR | = 1271 |
| PORCH | = 112 |
| GARAGE | = 248 |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DATE: 08/07/2020

1 STORY

FILE: 071820RT

# 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 (PSF) | DEAD LOAD (PSF) | DEFLECTION (LL) |
|---|---|---|---|
| ROOMS OTHER THAN SLEEPING ROOMS | 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 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).

7) L.V.L. SHALL BE LAMINATED VENEER LUMBER: Fb=2600 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 @ 48" O.C. .
ALL STEEL TUBING SHALL BE ASTM A500.

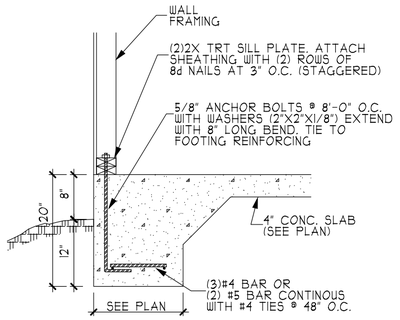
10) REBAR SHALL BE DEFORMED STEEL, ASTM615, GRADE 60.

11) 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.

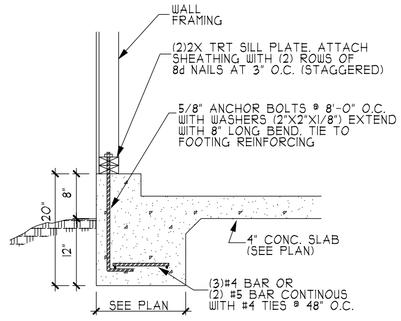
12) BRICK LINTELS SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 6'-0" SPAN AND 6"x4"x5/16" STEEL ANGLE WITH 6" LEG VERTICAL FOR SPANS UP TO 9'-0" (UNO).

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.

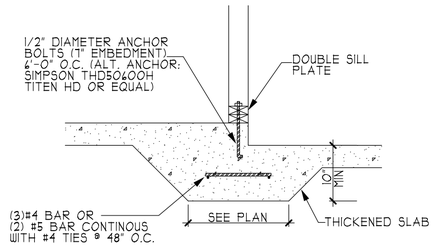
14) PROTECTION OF OPENINGS (R301.2.1.2) AS REQUIRED: GLAZED OPENINGS SHALL BE PROTECTED FROM WINDBORNE DEBRIS PER SECTION R301.2.1.2. NOTE: WOOD STRUCTURAL PANELS WITH MINIMUM THICKNESS OF 7/16" AND MAXIMUM SPAN OF 8'-0" MAY BE USED TO PROTECT THE OPENINGS. THE PANELS SHALL BE CUT AND ATTACHED PER TABLE R301.2.1.2.



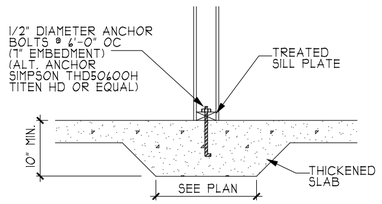

A MONOLITHIC SLAB
(SIDING OR EQUAL)



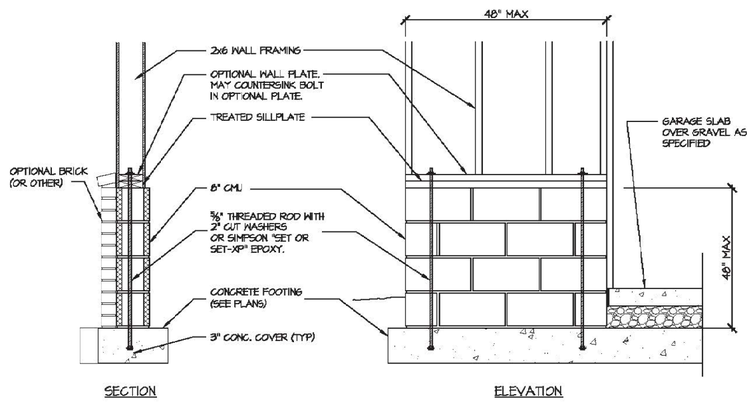

B MONOLITHIC SLAB @ GARAGE
(SIDING OR EQUAL)




C THICKENED SLAB @ GARAGE
(INTERIOR GARAGE WALL)




D THICKENED SLAB
(INTERIOR BEARING WALL)




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

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

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## HEADER/BEAM & COLUMN NOTES

1. 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:

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- OVER 4' UP TO 8' SPAN: (2) KING STUDS
- OVER 8' UP TO 11' SPAN: (3) KINGS STUDS
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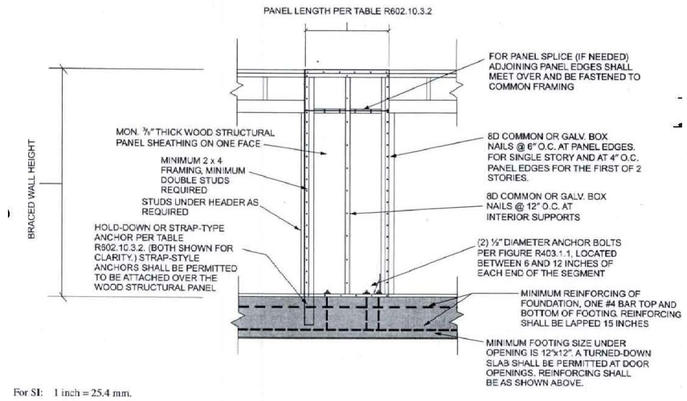
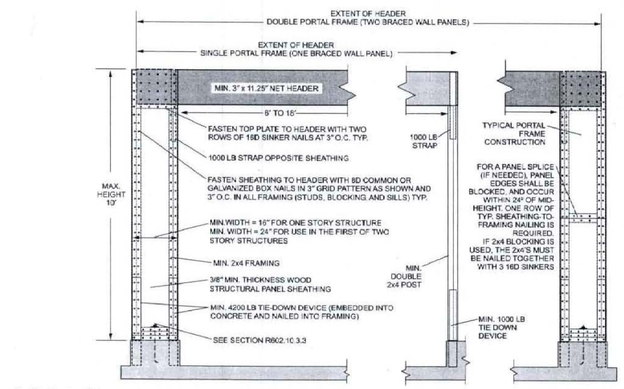



For SI: 1 inch = 25.4 mm.

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




For SI: 1 inch = 25.4 mm, 1 foot = 304.8 mm, 1 pound force = 4.448 N.

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

BASIC BUILDING DETAIL
SHEET FOR 140/150 MPH

*PLEASE NOTE THAT NOT ALL DETAILS APPLY TO EVERY PLAN.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BENSON NC 27504
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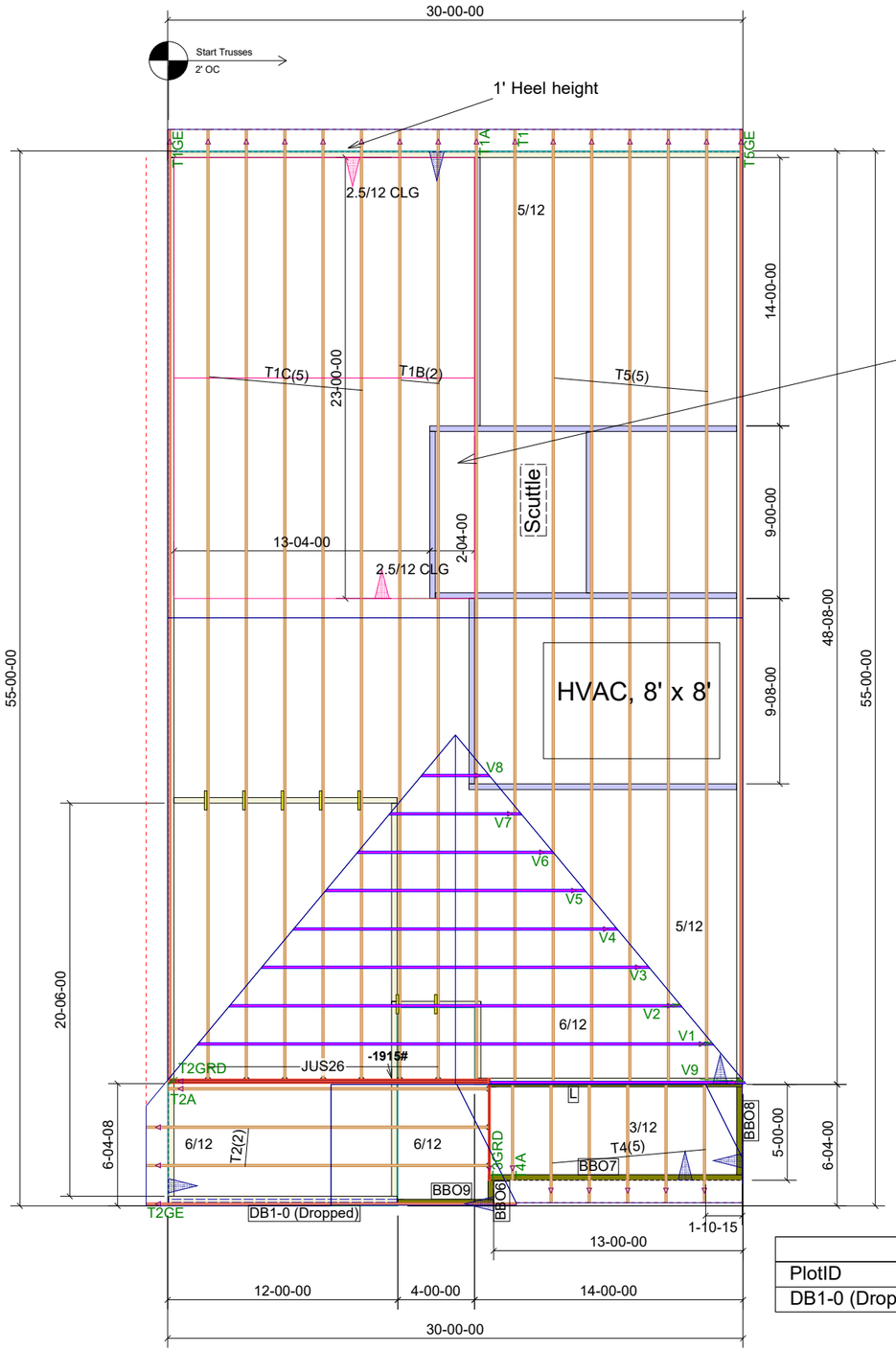
# THIS LAYOUT IS TO BE USED AS A TRUSS PLACEMENT GUIDE ONLY. PLEASE REFER TO BUILDING PLANS FOR BUILDING CONSTRUCTION AND DETAILS, SUCH AS PLUMBING OR DUCT DROPS.

CONSTRUCTION COPY- FOR FIELD USE




Notes:
1. 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. Do not install trusses that are damaged, are not properly fabricated, or do not have adequate bearing.
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.com

Roof Truss Loading per 2018 NC Residential Code

| | |
|---|---|
| Top Chord Live Load | 20# PSF |
| Top Chord Dead Load | 10# PSF |
| Bottom Chord Live Load | 0# PSF |
| Bottom Chord Dead Load | 10# PSF |

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

△ - This symbol denotes left end of truss as shown on truss drawings

● - Approximate location of toilet drop. Builder please confirm.

Truss connections by others:

Ⓝ -Nailed

Ⓛ -Ledger

305 Cypress Avenue
Roman with Gragage Header
Roof Trusses
2' OC, 14" Overhang

| Truss Connector Total List | | |
|---|---|---|
| Manuf | Product | Qty |
| USP | JUS26 | 7 |

| Products | | | | | |
|---|---|---|---|---|---|
| PlotID | Length | Product | Plies | Net Qty | Fab Type |
| DB1-0 (Dropped) | 12-00-00 | 1-3/4X11-7/8 LP-LVL 2900Fb-2.0E | 2 | 2 | MFD |

Job # Q-2002203

Roman w/ Garage Header
305 Cypress Avenue
Holly Ridge NC

Date Quoted:

Designer: **Aron Meeks**

Herring Construction

,


**Peak Truss Builders, LLC**
PO Box 340, New Hill, NC 27562