

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

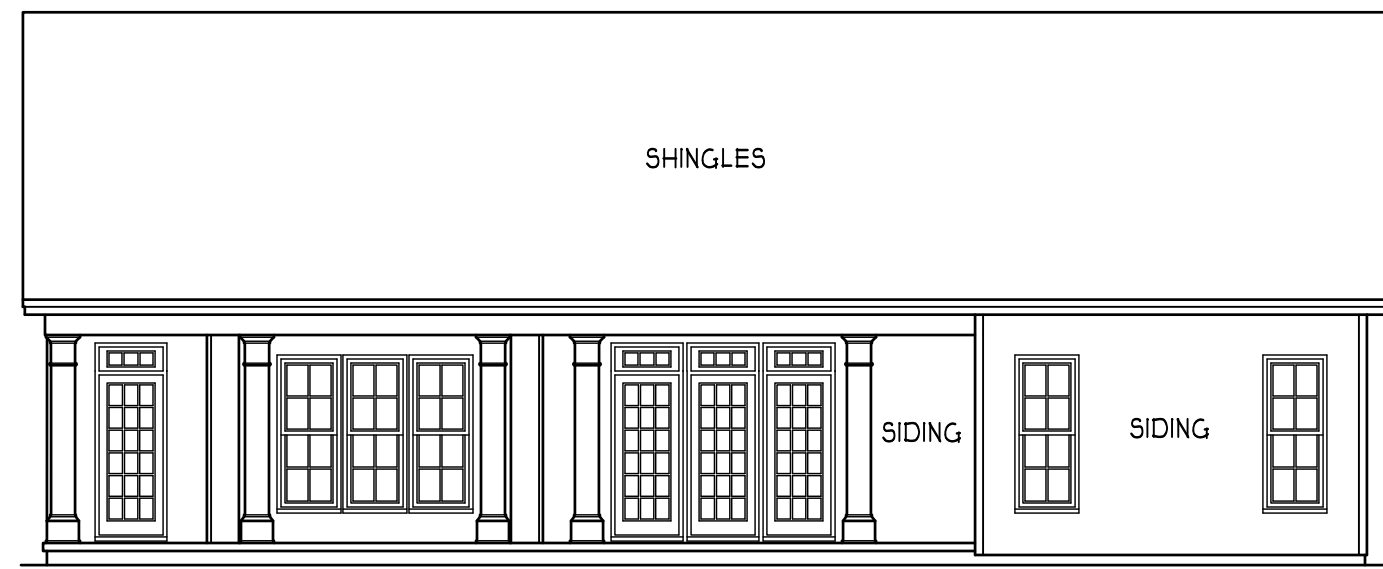
APPROVED
Limited building only review
Permit holder responsible for full compliance with the code

09/02/2020

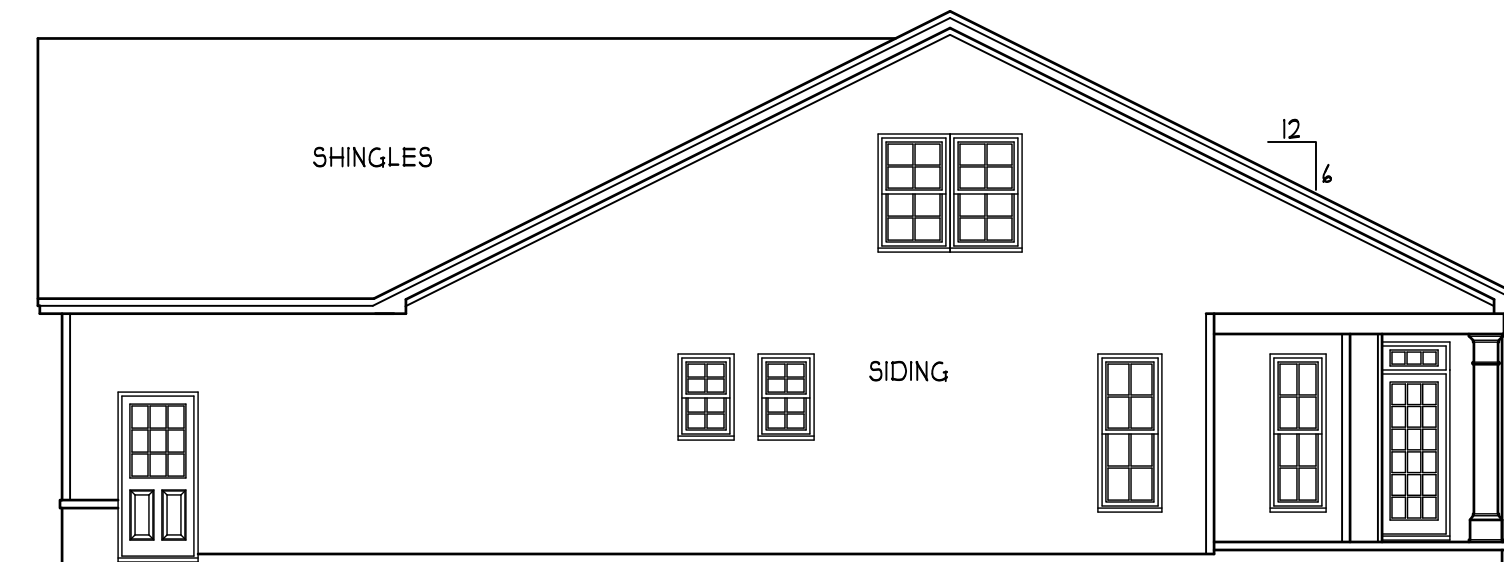
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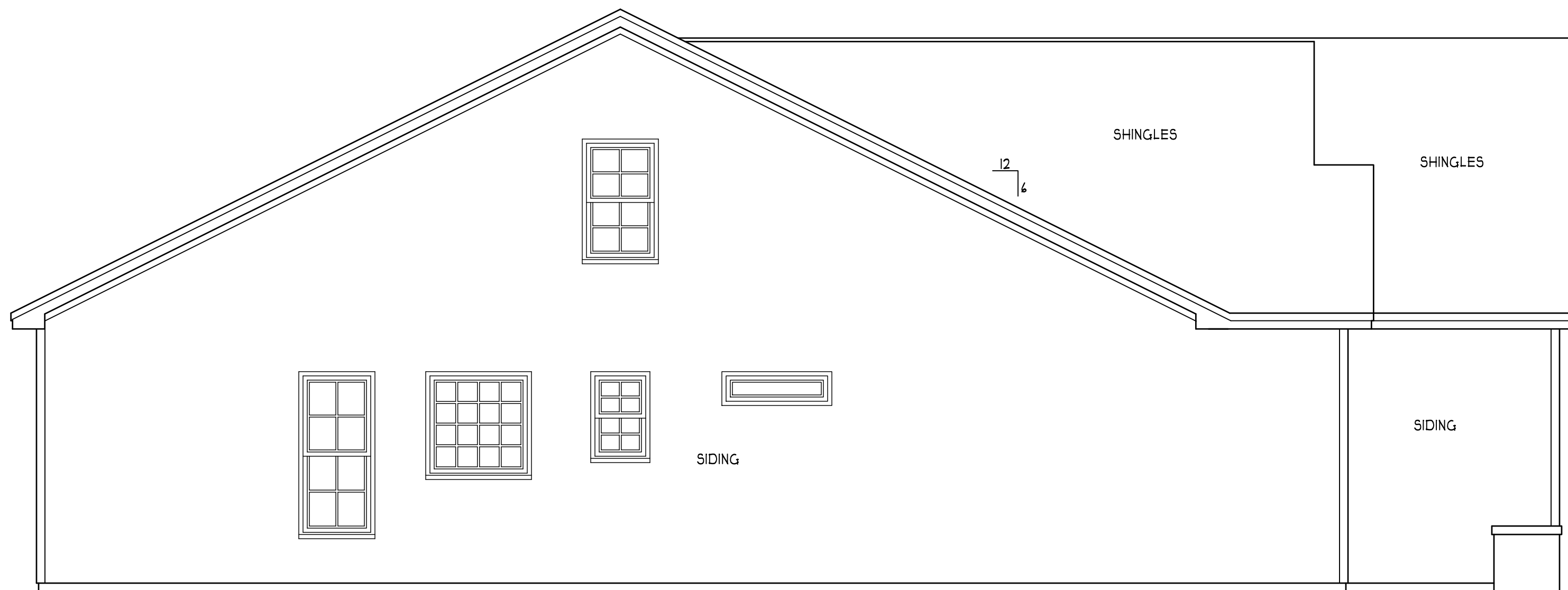
FRONT ELEVATION
SCALE 1/4" = 1'-0"



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



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



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

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 2912 SQ.FT.
2912/150 = 19.8 SQ.FT. NET FREE AREA

ENERGY COMPLIANCE

ZONE 3 = MAX. GLAZING U-FACTOR .35
R-VALUE = CEILING R38, WALLS R13, FLOORS R19
ZONE 4 = MAX. GLAZING U-FACTOR .35
R-VALUE = CEILING R38, WALLS R13, FLOORS R19

HB # 2008
HERRING BLDRS, INC.

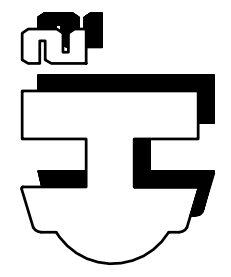
HEATED FOOTAGE:
#2008

= 2008
= 389
= 334
= 575

SQUARE FOOTAGE:
FIRST FLOOR
COV. PORCHES
UNF. REC RM
GARAGE

HEATHER HALL
165 HEATHERSTONE CT
BENSON NC 27504
(919) 207-4403

H SQUARED HOME DESIGN, INC.



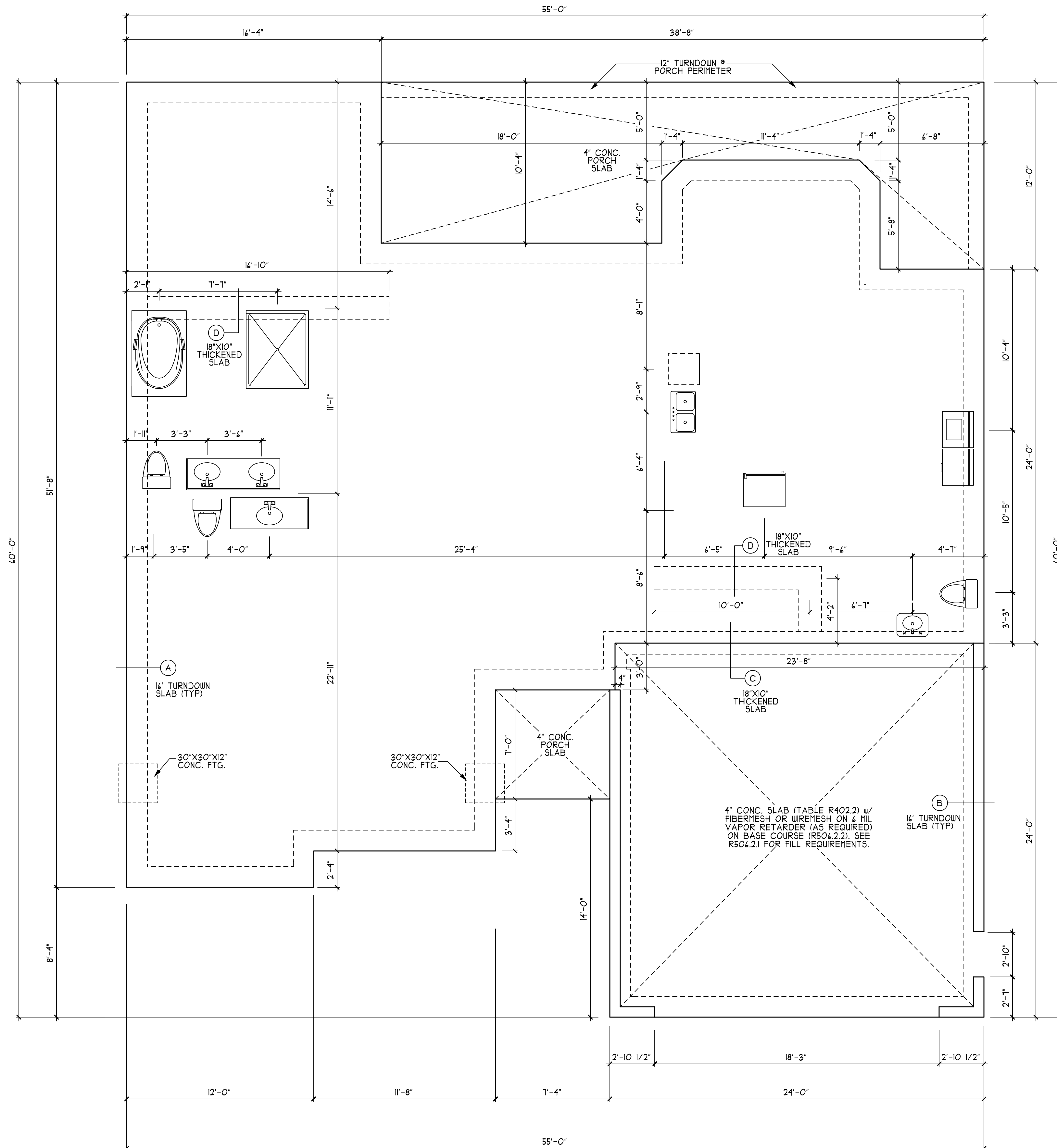
THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

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This plan is to be built by the homeowner or builder as cited in this title block only. Not released for multiple builds.

DATE:
08/18/2020

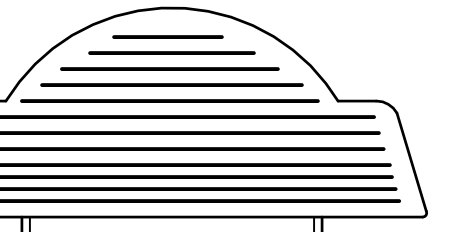
1 STORY

FILE:
071420



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

**MONOLITHIC SLAB
 FOUNDATION PLAN**
 SCALE 1/4" = 1'-0"



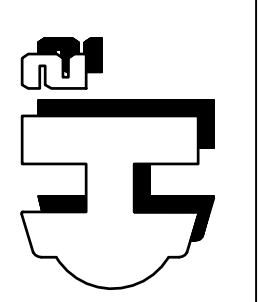
HB # 2008
 HERRING BLDRS, INC.

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#2008

SQUARE FOOTAGE:
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 = 575

HEATHER HALL
 165 HEATHERSTONE CT
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 DESIGN, INC.**



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1 STORY

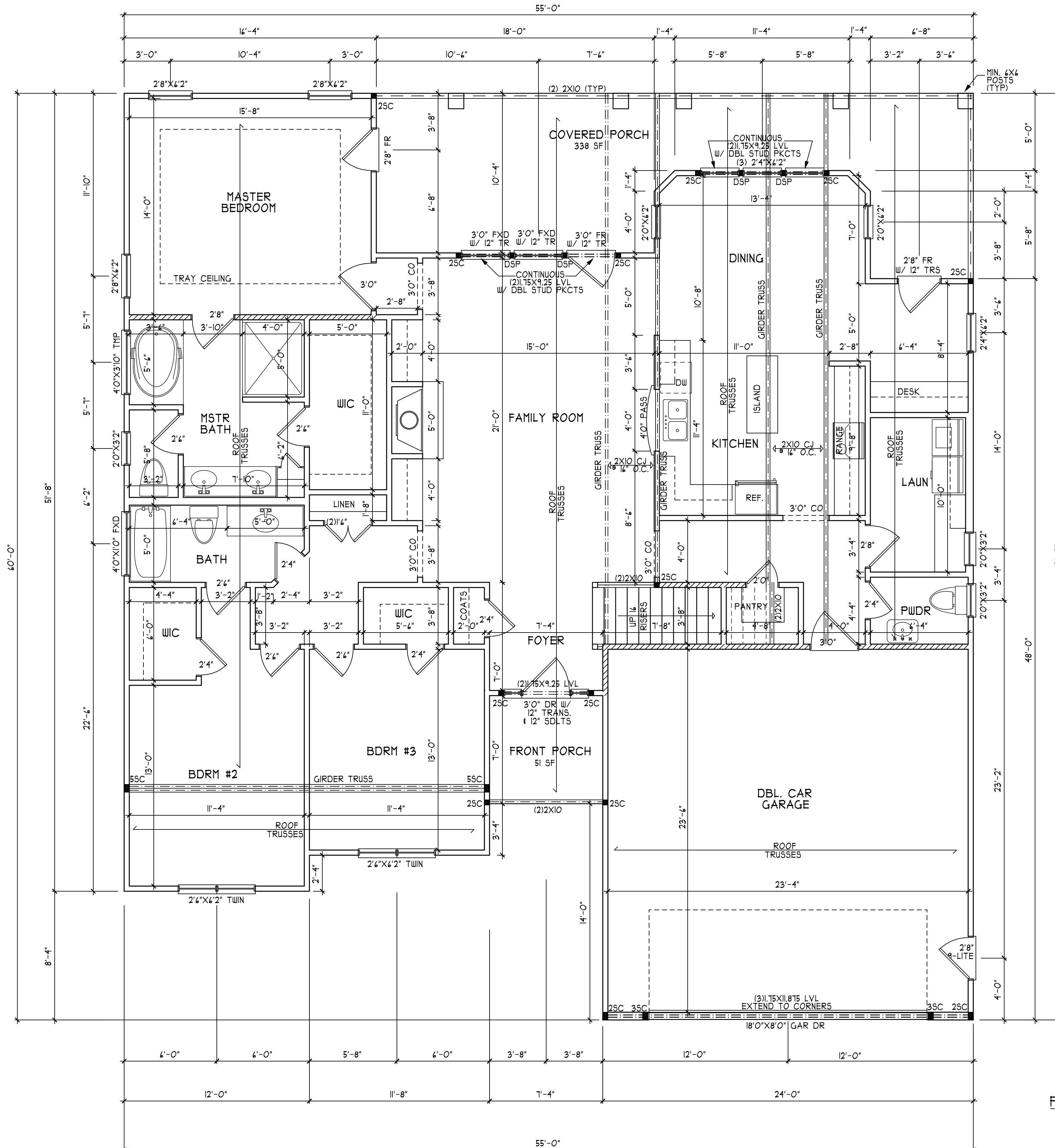
FILE:
 071420

TRUSS SYSTEM REQUIREMENTS
NC (2018 NRC)

1. 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.

HEADER/BEAM & COLUMN NOTES

1. ALL EXTERIOR AND LOAD BEARING HEADERS SHALL BE MIN. (2) 2X10 (4" WALL) OR (3) 2X10 (4" 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 2" IN TABLE R402.3(5) OR AS BELOW:
 - UP TO 4' SPAN: (1) KING STUD
 - OVER 4' UP TO 8' SPAN: (2) KING STUDS
 - OVER 8' UP TO 12' SPAN: (3) KING STUDS
 - OVER 12' SPAN: (4) KING STUDS



FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"

HB # 2008

HERRING BLDRS, INC.

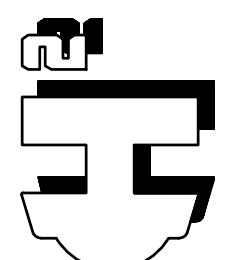
HEATED FOOTAGE:
#2008

SQUARE FOOTAGE:
= 2008
= 389
= 384
= 575

FIRST FLOOR
COV. PORCHES
UNF. REC RM
GARAGE

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165 HEATHERSTONE CT
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HOME
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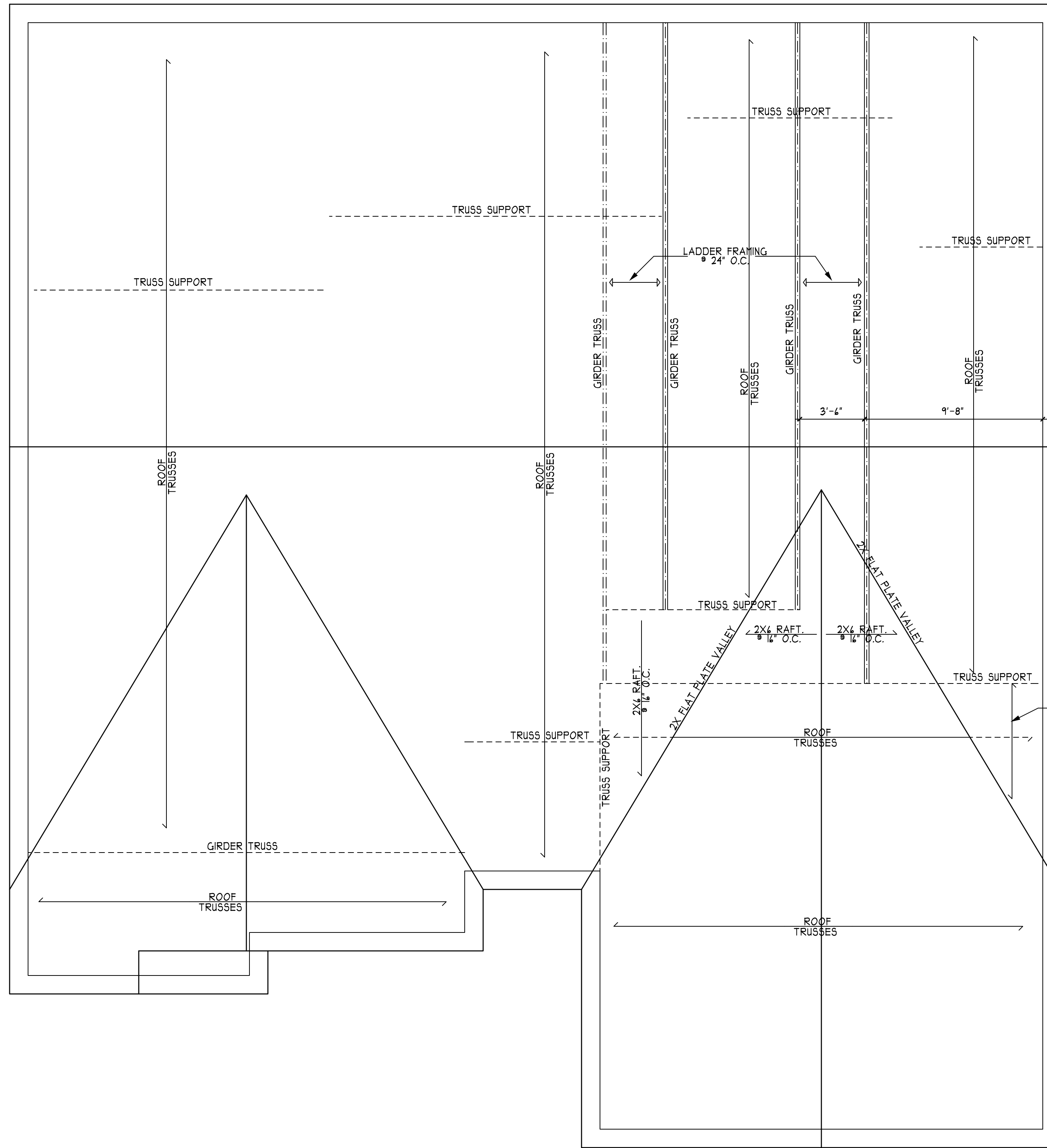
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1 STORY

FILE:
071420



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3. ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (W/O).
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"

HB # 2008
HERRING BLDRS, INC.

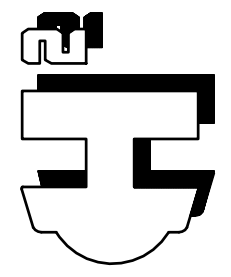
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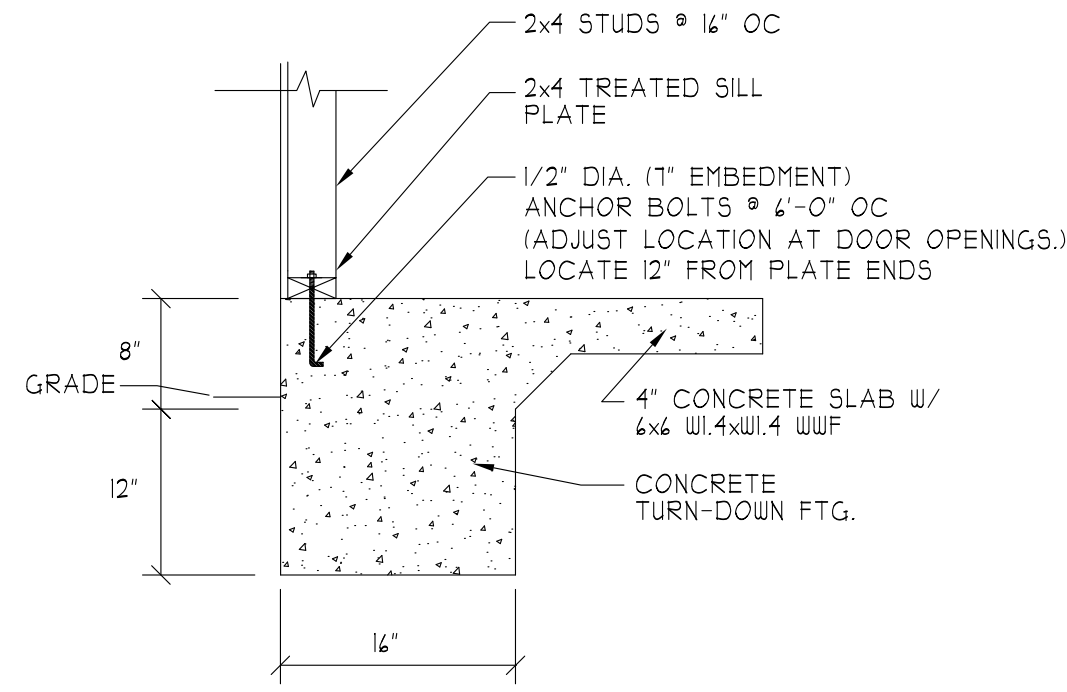
1 STORY

FILE:
071420

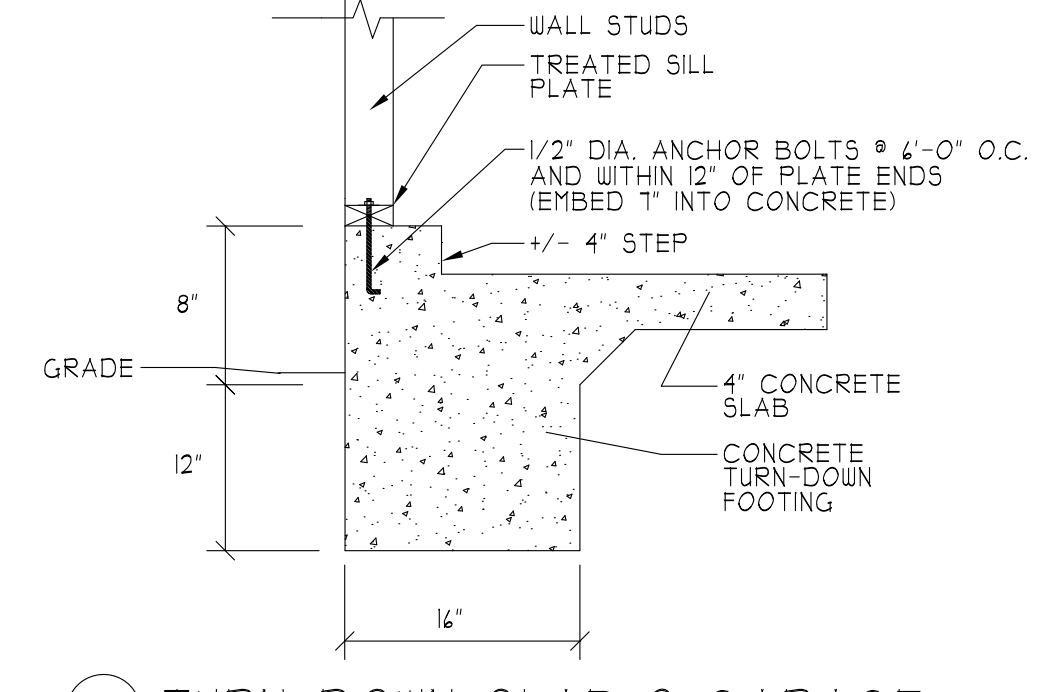
STRUCTURAL NOTES

- 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)

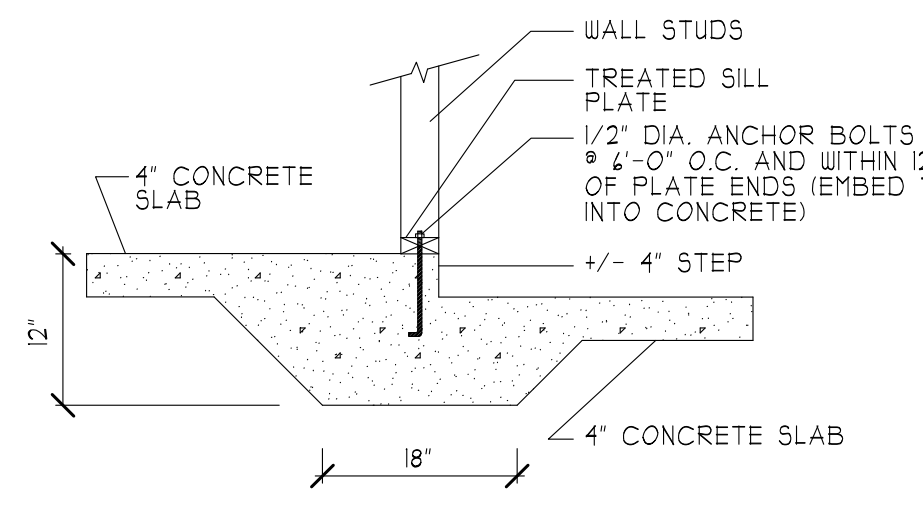
	LIVE LOAD (PSF)	DEAD LOAD (PSF)	DEFLECTION (LL)
ROOMS OTHER THAN SLEEPING ROOMS	40	10	L/360
SLEEPING ROOMS	30	10	L/360
ATTIC WITH PERMANENT STAIR	40	10	L/360
ATTIC WITH OUT PERMANENT STAIR	20	10	L/360
ATTIC WITH OUT STORAGE	10	10	L/240
STAIRS	40	--	L/360
EXTERIOR BALCONIES	40	10	L/360
DECKS	40	--	L/360
GUARDRAILS AND HANDRAILS	200	--	----
PASSENGER VEHICLE GARAGES	50	10	L/360
FIRE ESCAPES	40	10	L/360
SNOW	20	--	----
WIND LOAD (BASED ON 115/120 MPH WIND VELOCITY & EXPOSURE B)	--	--	----
- 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 BRACING 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.
- CONCRETE SHALL HAVE A MINIMUM 28 DAY STRENGTH OF 3000 PSI AND A MAXIMUM SLUMP OF 5 INCHES UNLESS NOTED OTHERWISE (UNO). AIR ENTRAINMENT 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.
- ALLOWABLE SOIL BEARING PRESSURE ASSUMED TO BE 2000 PSF. THE CONTRACTOR MUST CONTACT A GEOTECHNICAL ENGINEER AND THE STRUCTURAL 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 DRAIN SURFACE WATER AWAY FROM FOUNDATION WALLS.
- ALL FRAMING LUMBER SHALL BE SPF #2 ($F_b = 815$ PSI) UNLESS NOTED OTHERWISE (UNO). ALL TREATED LUMBER SHALL BE SYP #2 ($F_b = 915$ PSI). PLATE MATERIAL MAY BE SPF #3 OR SYP #3 ($F_c(\text{perp}) = 425$ PSI - MIN).
- ALL WOODEN BEAMS AND HEADERS SHALL HAVE THE FOLLOWING END SUPPORTS: (1) 2x4 STUD COLUMN FOR 4'-0" MAX. BEAM SPAN (UNO), (2) 2x4 STUDS FOR BEAM SPAN GREATER THAN 4'-0" (UNO).
- L.V.L. SHALL BE LAMINATED VENEER LUMBER: $F_b = 2600$ PSI, $F_v = 285$ PSI, $E = 1.9 \times 10^6$ PSI. P.S.L. SHALL BE PARALLEL STRAND LUMBER: $F_b = 2400$ PSI, $F_v = 240$ PSI, $E = 2.0 \times 10^6$ PSI. L.S.L. SHALL BE LAMINATED STRAND LUMBER: $F_b = 2250$ PSI, $F_v = 400$ PSI, $E = 1.55 \times 10^6$ PSI. INSTALL ALL CONNECTIONS PER MANUFACTURERS INSTRUCTIONS.
- 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 MANUFACTURER'S SPECIFICATIONS. ANY CHANGE IN TRUSS OR I-JOIST LAYOUT SHALL BE COORDINATED WITH DESIGNER OR ENGINEER.
- 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.
- REBAR SHALL BE DEFORMED STEEL, ASTM#45, GRADE 40.
- 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 4" FROM EACH END.
- BRICK LINTELS SHALL BE 3 1/2"x3 1/2"x1/4" STEEL ANGLE FOR UP TO 4'-0" SPAN AND 4"x4"x5/16" STEEL ANGLE WITH 4" LEG VERTICAL FOR SPANS UP TO 9'-0" (UNO).
- 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 - 2:12 PITCH OR LESS
 34.8 PSF - 2:12 TO 1:12 PITCH
 21 PSF - 1:12 TO 12:12 PITCH
 WALLS:
 24.1 PSF - WALLS



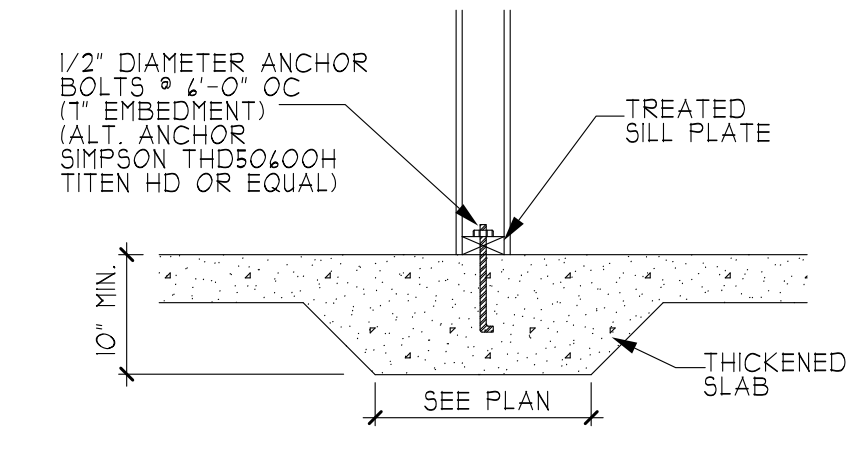
(A) TURN DOWN SLAB FOOTING NTS



(B) TURN DOWN SLAB @ GARAGE (SIDING) NTS



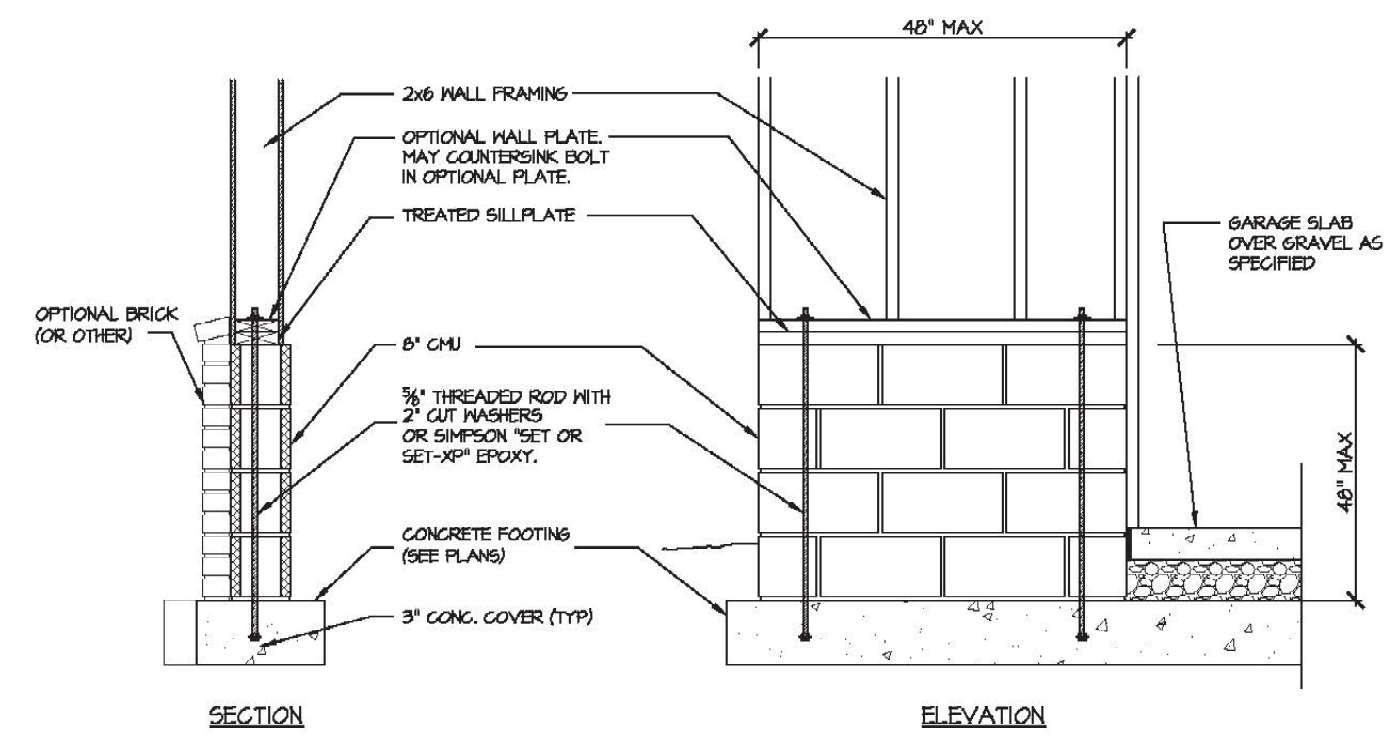
(C) THICKENED SLAB @ GARAGE NTS



(D) THICKENED SLAB (INTERIOR BEARING WALL)

HEADER/BEAM & COLUMN NOTES

- 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.
- 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) KING STUDS
 - OVER 11' SPAN: (4) KING STUDS



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

TRUSS SYSTEM REQUIREMENTS

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- TRUSS SCHEMATICS (PROFILES) SHALL BE PREPARED AND SEALED BY TRUSS MANUFACTURER.
- ALL TRUSSES SHALL BE DESIGNED FOR BEARING ON SPF #2 OR #3 PLATES OR LEDGERS (UNO).
- ALL REQUIRED ANCHORS FOR TRUSSES DUE TO UPLIFT OR BEARING SHALL MEET THE REQUIREMENTS AS SPECIFIED ON THE TRUSS SCHEMATICS.

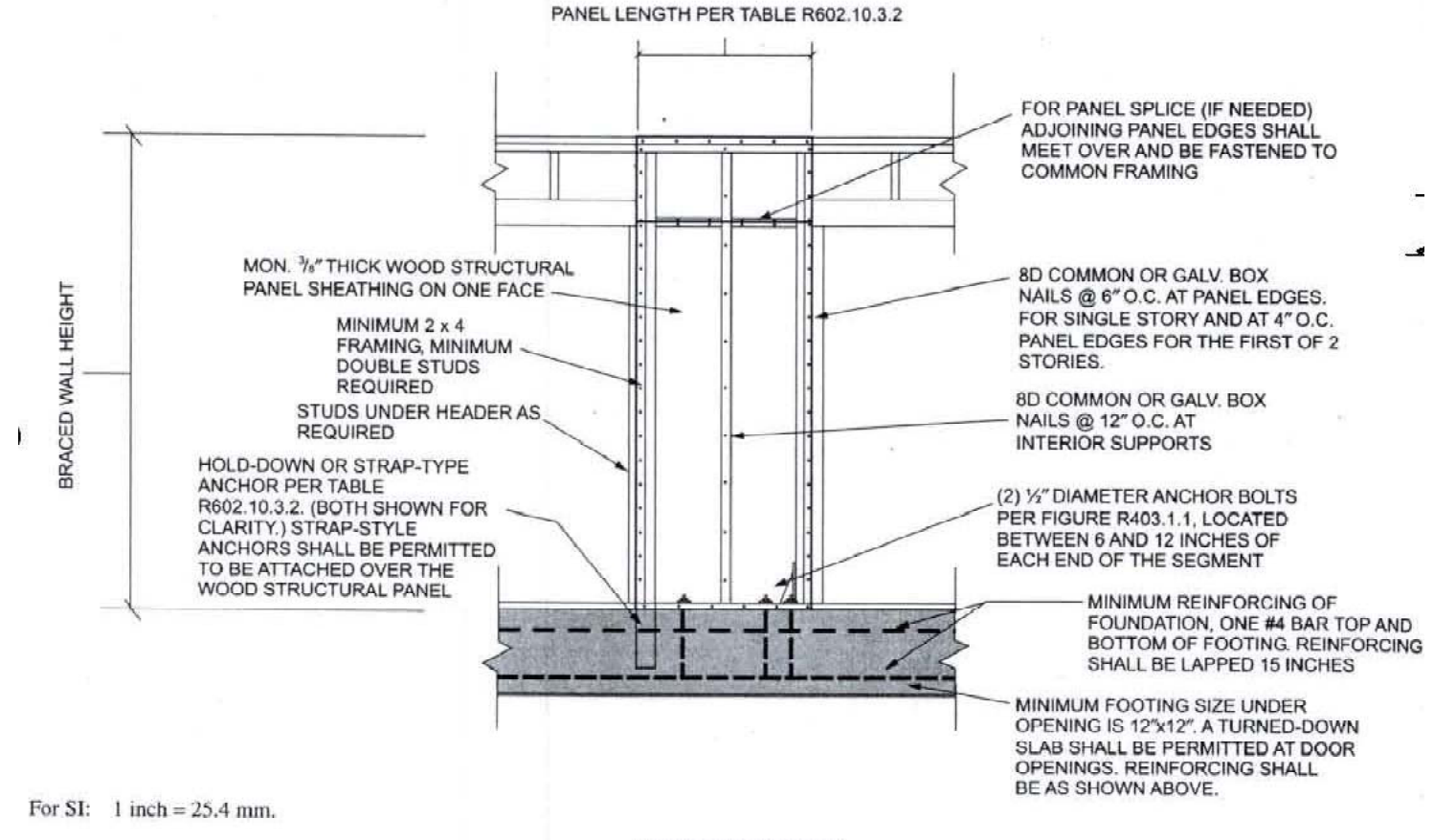


FIGURE R602.10.3.2 ALTERNATE BRACED WALL PANEL

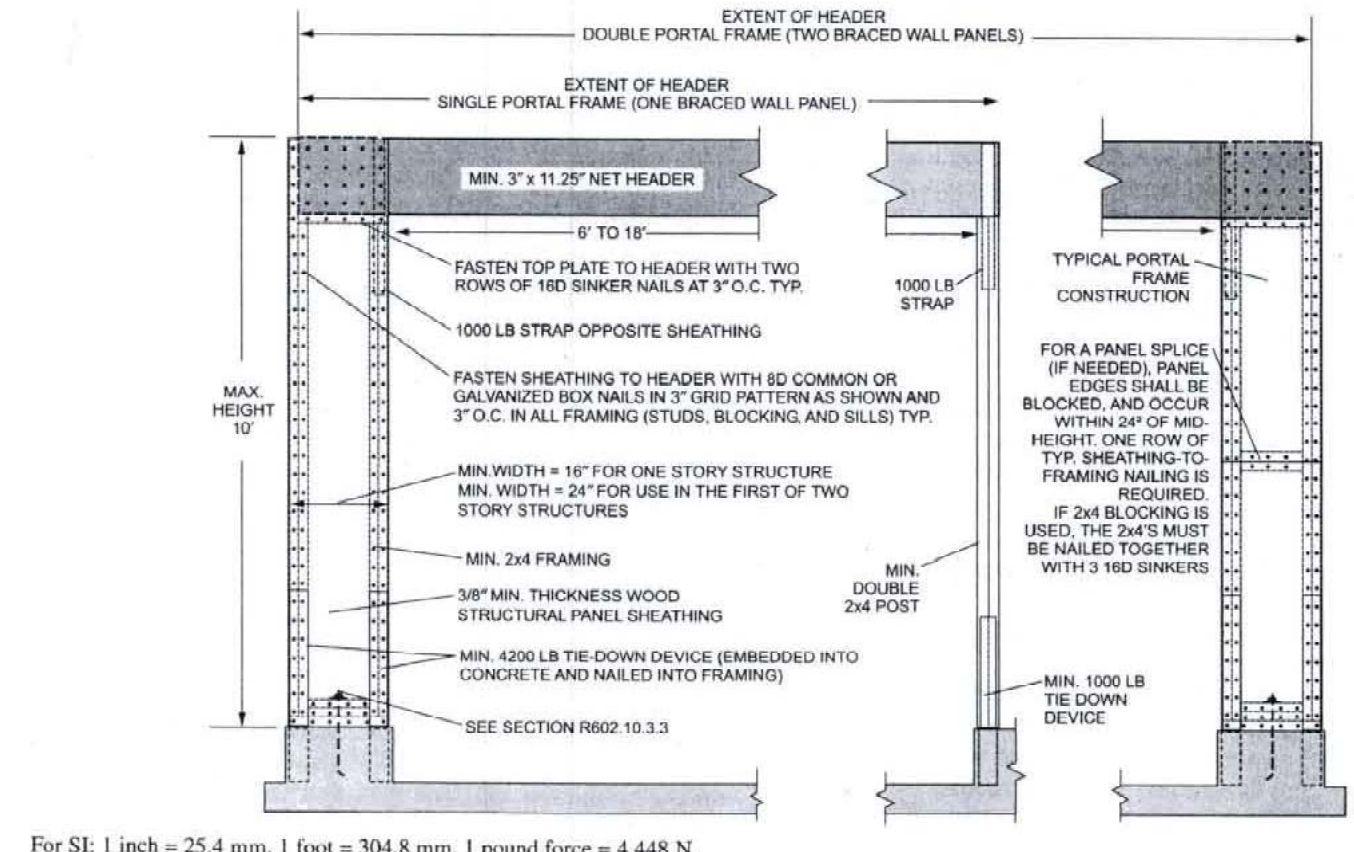


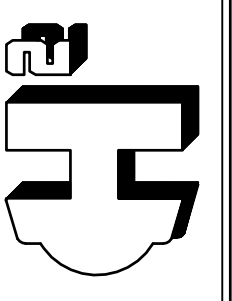
FIGURE R602.10.3.3 METHOD PFH: PORTAL FRAME WITH HOLD-DOWNS

BASIC BUILDING
 DETAIL SHEET (115-120 MPH)

*PLEASE NOTE THAT NOT ALL DETAILS APPLY TO EVERY PLAN.

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

H SQUARED
 HOME
 DESIGN, INC.



ANY DEVIATION OF THE SPECIFIED REQUIREMENTS OF H SQUARED HOME DESIGN, INC.'S LIABILITY.
 THIS PLAN HAS BEEN DRAWN IN ACCORDANCE WITH NORTH CAROLINA STATE RESIDENTIAL BUILDING CODES 2018 EDITION.

DATE:

FILE:

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.

PROPOSED DESIGN-
NOT FOR
CONSTRUCTION

Job #
Q-2002149

HB 2008 V3

Date Quoted:

Designer:
Torrence Hamilton

Herring Construction

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

- Notes:
- Exterior dimensions shown are assumed to be:
 - ☐ Out-to-out of stud
 - ☒ Out-to-out of sheathing
 - 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.
 - Do not cut, drill, or otherwise damage any part of any truss without prior approval from Peak Truss.
 - Do not approve drawings if any information herein is unclear. Once ordered trusses will be fabricated as approved.
 - 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

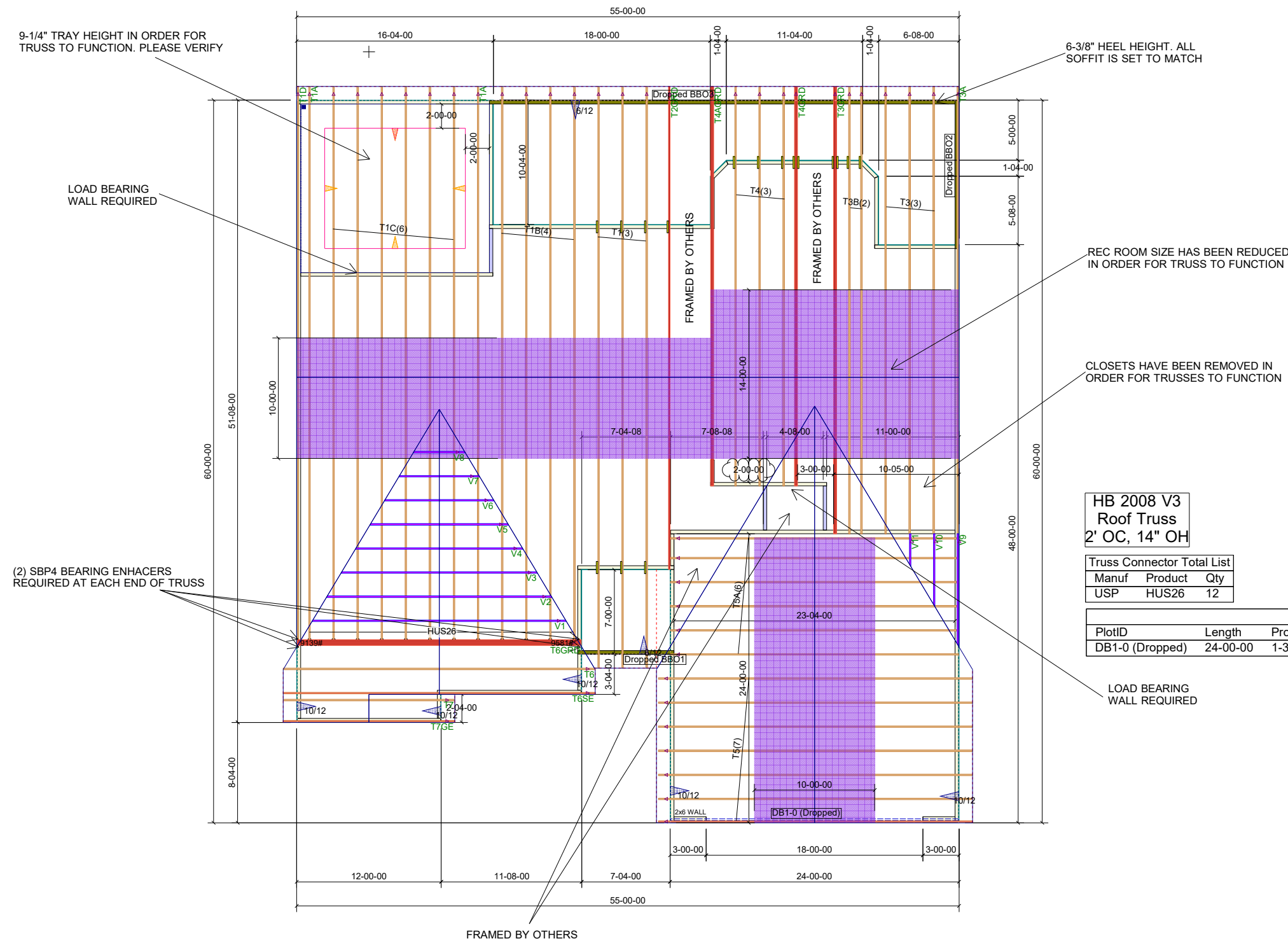
Top Chord Live Load 20# PSF
Top Chord Dead Load 10# PSF
Bottom Chord Live Load 0# PSF
Bottom Chord Dead Load 10# PSF

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



HB 2008 V3
Roof Truss
2' OC, 14" OH

Truss Connector Total List		
Manuf	Product	Qty
USP	HUS26	12

PlotID	Length	Product	Products		
			Plies	Net Qty	Fab Type
DB1-0 (Dropped)	24-00-00	1-3/4X11-7/8 LP-LVL 2900Fb-2.0E	2	2	MFD

9-1/4" TRAY HEIGHT IN ORDER FOR TRUSS TO FUNCTION. PLEASE VERIFY

LOAD BEARING WALL REQUIRED

(2) SBP4 BEARING ENHACERS REQUIRED AT EACH END OF TRUSS

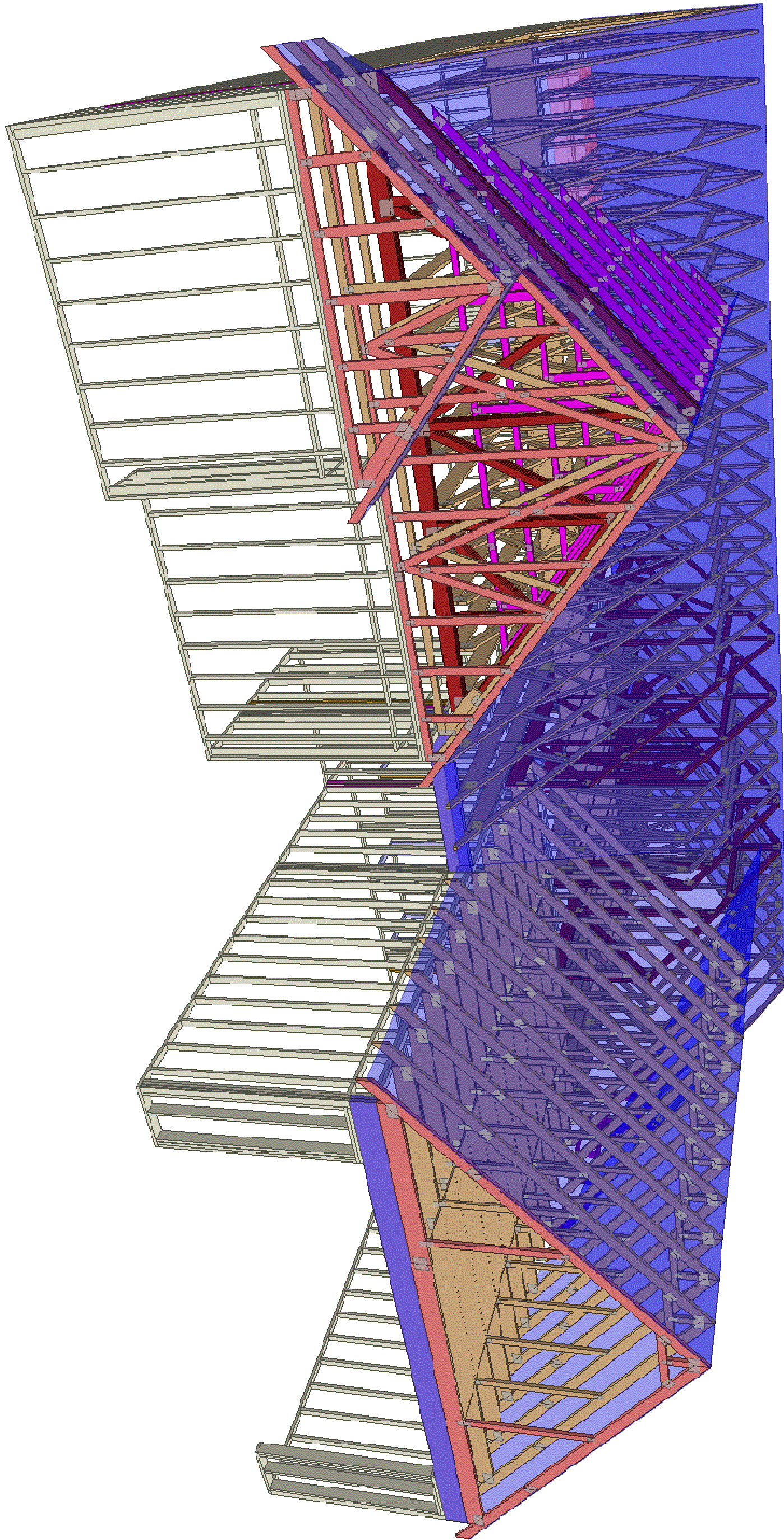
6-3/8" HEEL HEIGHT. ALL SOFFIT IS SET TO MATCH

REC ROOM SIZE HAS BEEN REDUCED IN ORDER FOR TRUSS TO FUNCTION

CLOSETS HAVE BEEN REMOVED IN ORDER FOR TRUSSES TO FUNCTION

LOAD BEARING WALL REQUIRED

FRAMED BY OTHERS



**Peak Truss
Builders, LLC**

PO Box 340, New Hill, NC 27562

Herring Construction

Date Quoted:

HB 2008 V3

Job #

Designer:
Torrance Hamilton

Q-2002149

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SUCH AS PLUMBING OR DUCT DROPS.

PROPOSED DESIGN-
NOT FOR
CONSTRUCTION

Job #
Q-2002149

HB 2008 V3

Date Quoted:
Torrance Hamilton
Designer:

Herring Construction

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

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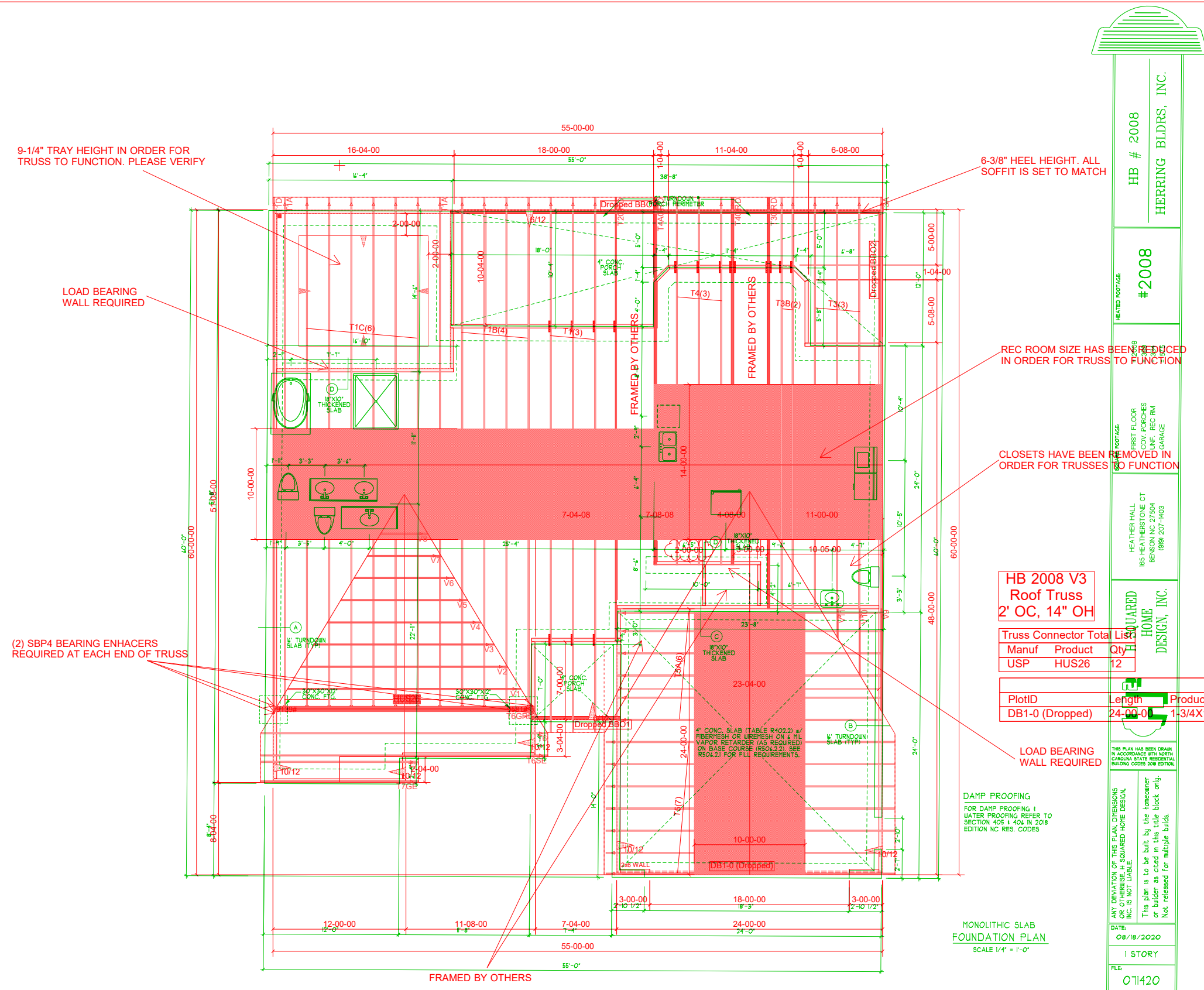
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Top Chord Dead Load	10# PSF
Bottom Chord Live Load	0# PSF
Bottom Chord Dead Load	10# PSF

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



HB # 2008
HERRING BLDERS, INC.

#2008

HEATED FOOTAGE

UNHEATED FOOTAGE

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

SQUARED HOME DESIGN, INC.

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DATE: 08/18/2020
1 STORY
FILE: 011420

HB 2008 V3
Roof Truss
2' OC, 14" OH

Truss Connector Total	List
Manuf	Product Qty
USP	HUS26 12

PlotID	Length	Product	Plies	Net Qty	Fab Type
DB1-0 (Dropped)	24'-00"	1-3/4X11-7/8 LP-LVL 2900Fb-2.0E	2	2	MFD

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

MONOLITHIC SLAB
FOUNDATION PLAN
SCALE 1/4" = 1'-0"

9-1/4" TRAY HEIGHT IN ORDER FOR TRUSS TO FUNCTION. PLEASE VERIFY

LOAD BEARING WALL REQUIRED

(2) SBP4 BEARING ENHACERS REQUIRED AT EACH END OF TRUSS

6-3/8" HEEL HEIGHT. ALL SOFFIT IS SET TO MATCH

REC ROOM SIZE HAS BEEN REDUCED IN ORDER FOR TRUSS TO FUNCTION

CLOSETS HAVE BEEN REMOVED IN ORDER FOR TRUSSES TO FUNCTION

LOAD BEARING WALL REQUIRED