

These plans conforms to:  
 NC Residential Code  
 2012 Edition

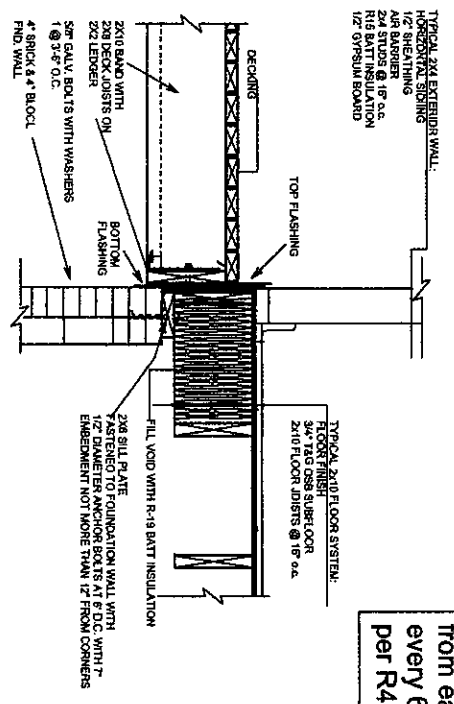
Owner: Randy and Joyce Rambeau  
 105 Harvey Lane  
 Coats, NC

Builder: Marshall Johnson Construction, Inc.  
 283 Banner Elk Rd.  
 Benson, NC 27504 License # 55274

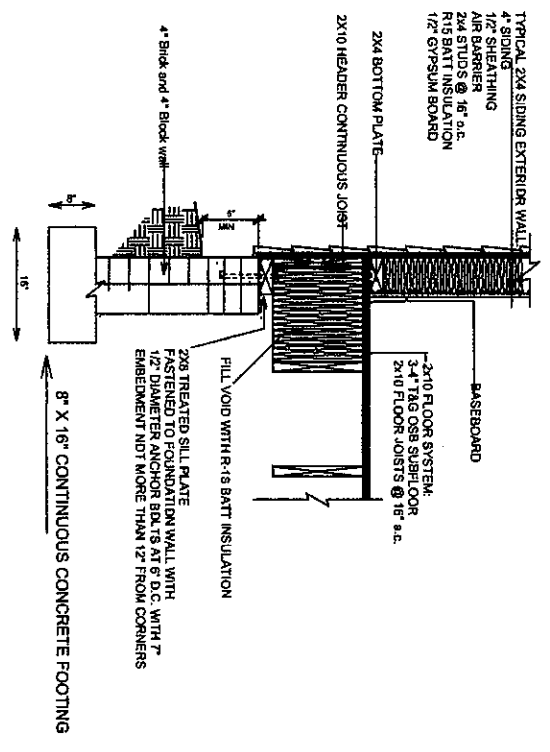
SCALE 1/8" = 1'-0"  
 DRAWN BY MLJ  
 APPROVED

DATE 3-9-2022  
 REVISED  
 DRAWING# Ranch House

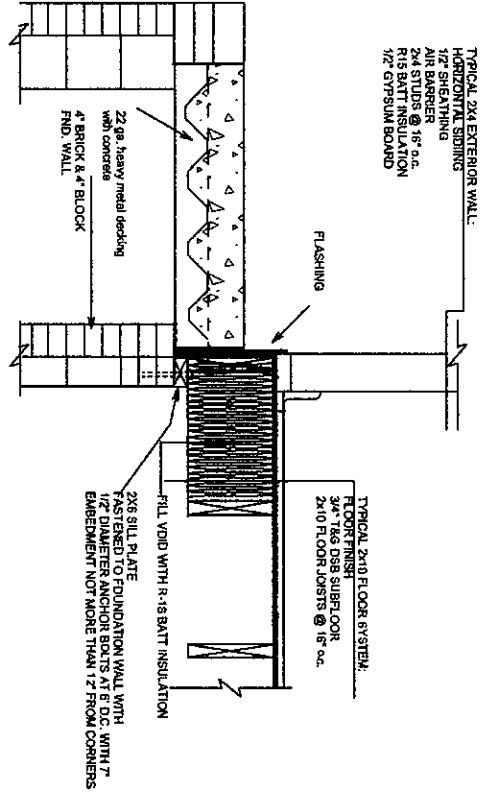
Anchor bolts must be 12" from each corner and every 6' with 7" embedment per R403.1.6



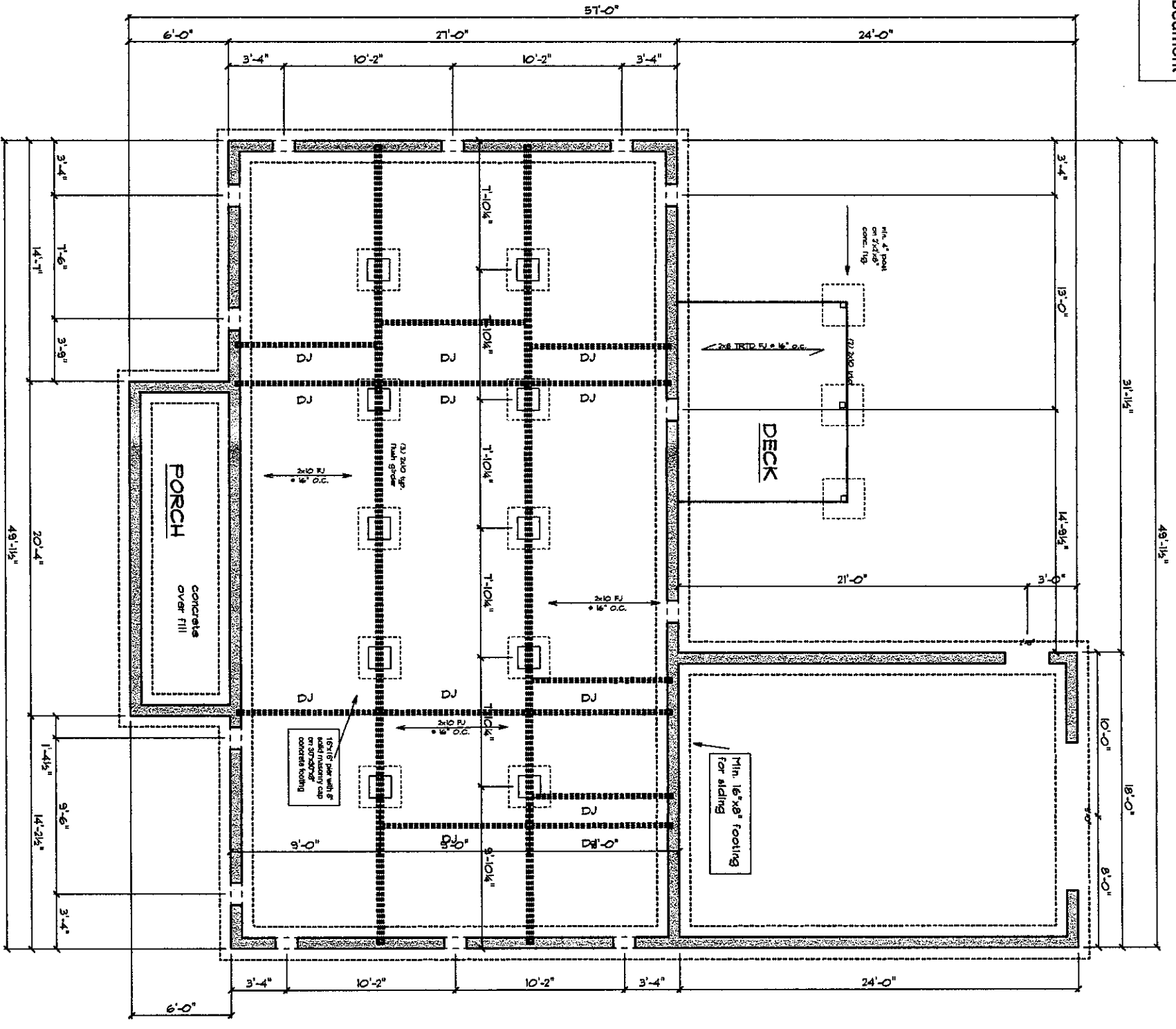
DECK AT EXTERIOR WALL



SIDING WALL AT FOUNDATION



CONCRETE PORCH AT FOUNDATION



FOUNDATION PLAN

SCALE: 3/8\"/>

FINISH: VENEER  
 1304/60 = 4.8 sq. ft. req.  
 8.8/41 = 1/8 veneer  
 18/2 = 10 veneer barrier  
 18/2 = 10 veneer  
 with 1/2\"/>

1,324 Heated sq. ft.  
 120 Front Porch  
 120 Covered back deck  
 432 Garage

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**ENERGY DETAILS**

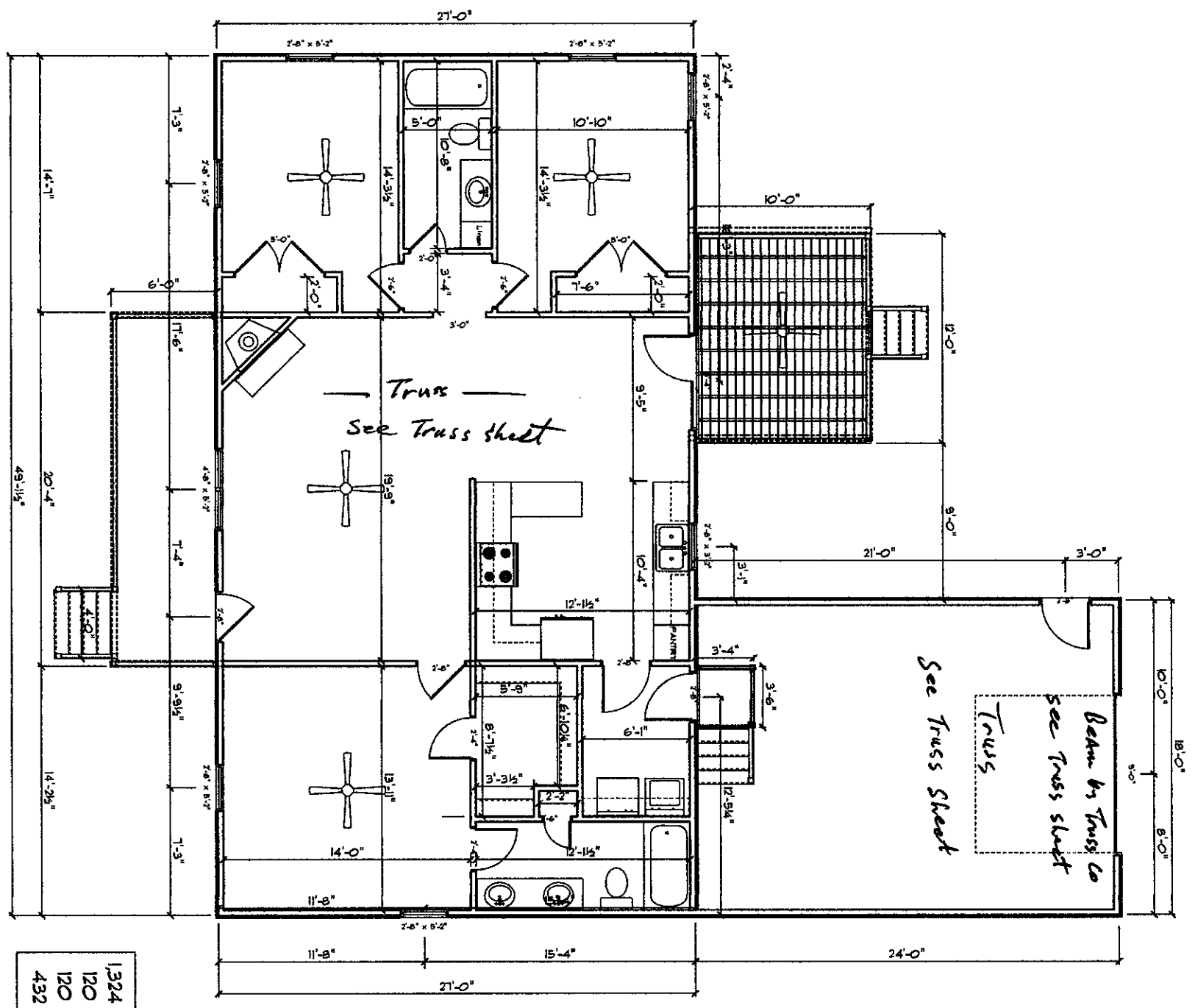
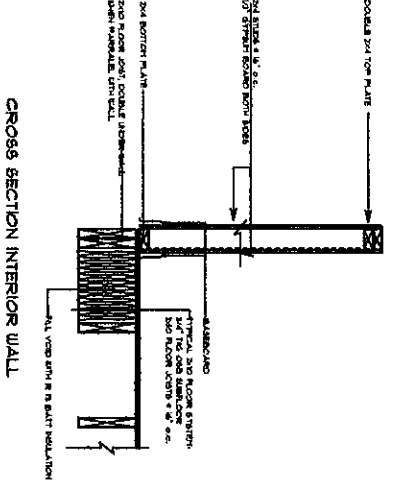
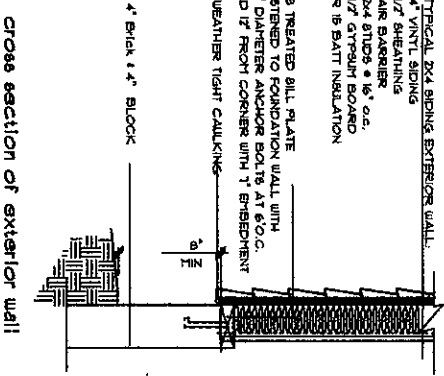
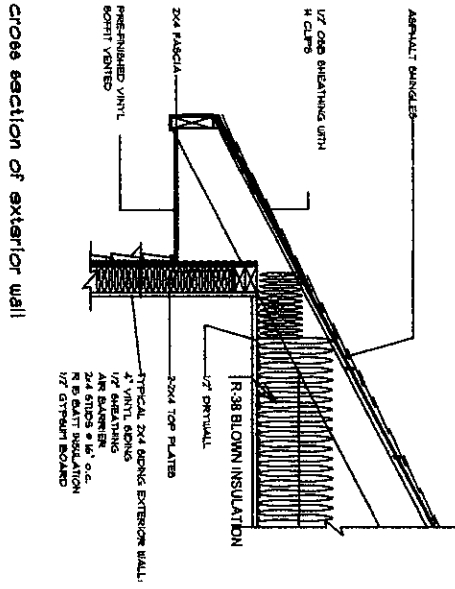
Energy Compliance: (Per Chapter 11)  
 For Climate zone 3A  
 (6) Windows @ 137 sq.ft. = 109.8 sq.ft.  
 (1) Window @ 844 sq.ft. = 844 sq.ft.  
 (1) Window @ 74 sq.ft. = 74 sq.ft.  
 (2) Doors @ 20 sq.ft. = 40 sq.ft.  
 Total 165.4 sq.ft.  
 Wall area = 1368 sq.ft.  
 165.4/1368 = 12% of wall area

Floors R-19 batts  
 Walls R-15 batts  
 Ceilings R-36 blown  
 U-factor .34 SHGC .23 DP rating .50  
 Windows .34 SHGC .23 DP rating .50

R-values  
 Walls R-15  
 Ceiling R-38  
 Floors R-19

All load bearing exterior window headers with a maximum span of 5'-6" should be a (2) 2x10 w/ (1) 2x4 king stud and (1) 2x4 jack stud nailed together w/ (2) 10d @ 8" O.C.

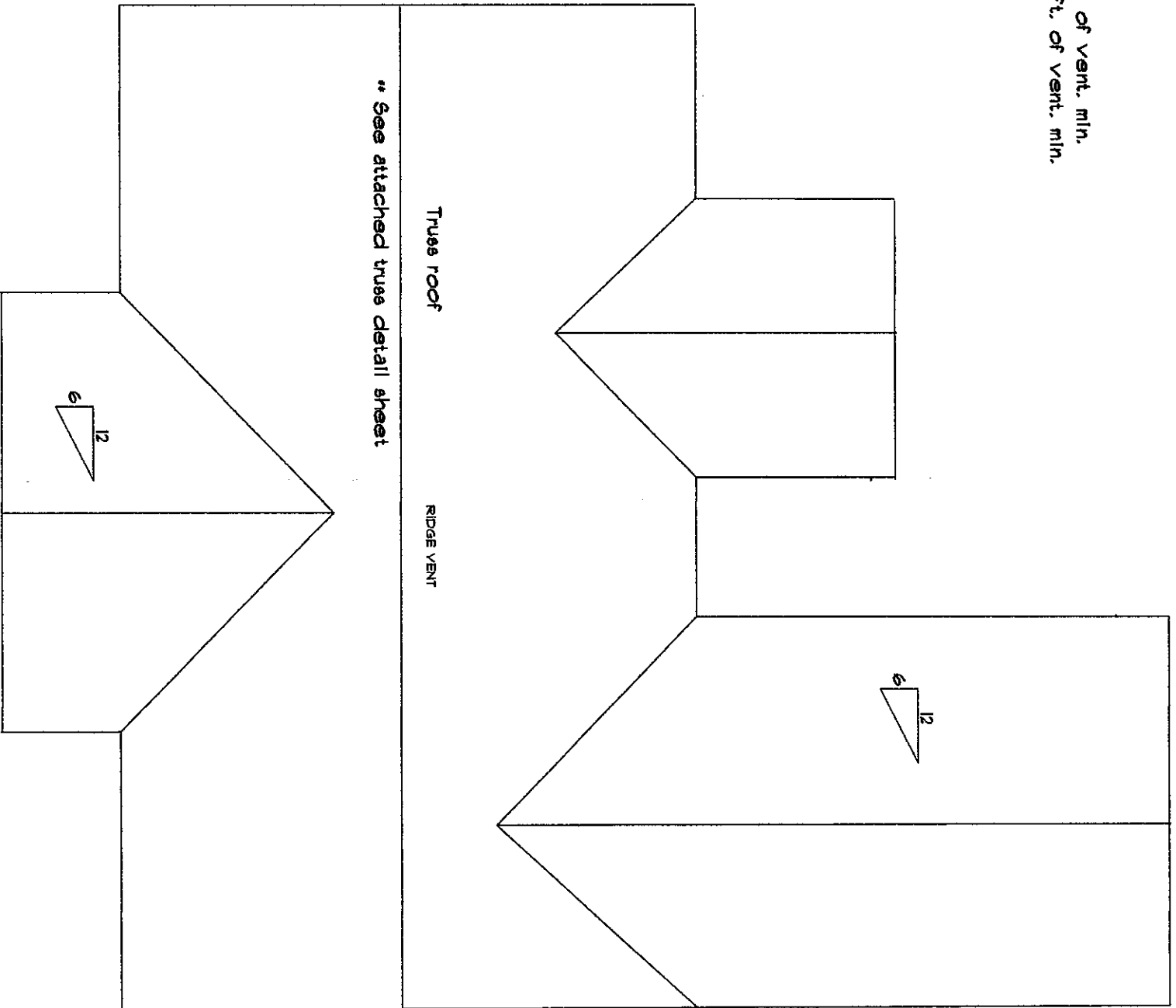
All exterior walls shall have continuous wood structural panel sheathing 7/16" thick and nailed with 8d @ 6" along edges and 12" at intermediate supports to 2x4 studs @ 16" O.C. per Table R602.3(3)



**1ST FLOOR PLAN**  
 SCALE 1/8" = 1'-0"

1,324 Heated sq. ft.  
 120 Front Porch  
 120 Covered back deck  
 432 Garage

Attic Ventilation:  
 1992 sq.ft./300 = 6.64 sq.ft. inlet and outlet  
 Inlet: .125 sq.ft. per 40 ln.ft. of 3" soffit vent = 1.0 sq.ft. of vent. min.  
 Outlet: .125 sq.ft. per ln.ft. ridge vent x 40 ln.ft. = 1.0 sq.ft. of vent. min.



**ROOF PLAN**

SCALE 3/8" = 1'-0"

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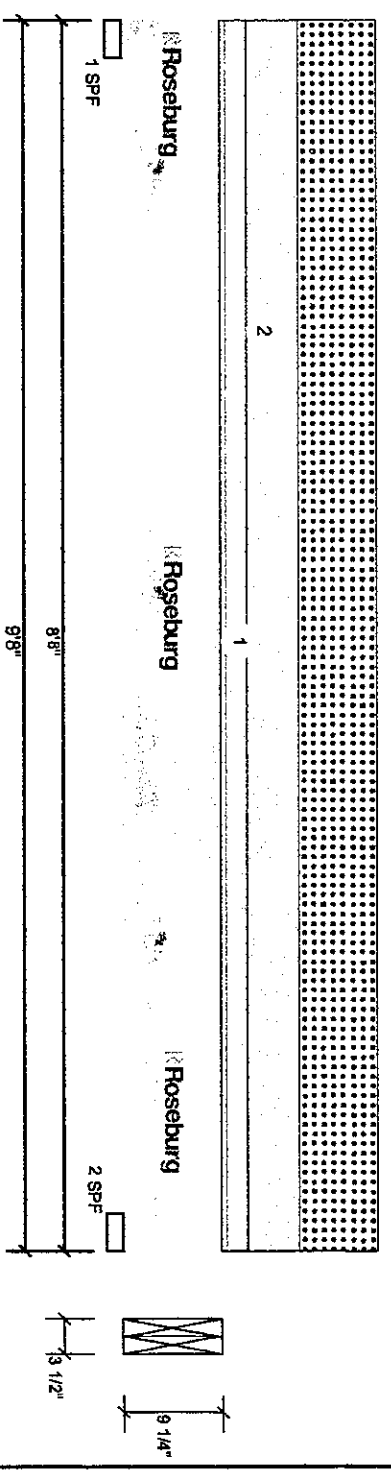
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Client: PBS MORRISVILLE  
 Project:   
 Address:   
 Date: 3/10/2022

Input by: MARSHALL JOHNSON 22-1667  
 Job Name: MARSHALL JOHNSON 22-1667  
 Project #:   
 Level: Level

**BM1 2.0E Rigidlam LVL 1.750" X 9.250" 2-PLY - PASSED**



**Member Information**

Type:	Girder	Application:	Floor
Piles:	2	Design Method:	ASD
Moisture Condition:	Dry	Building Code:	IBC/IRC 2015
Deflection LL:	480	Load Sharing:	No
Deflection TL:	240	Deck:	Not Checked
Importance:	Normal - II		
Temperature:	Temp <= 100°F		

**Reactions UNPATTERNED lb (Uplift)**

Brig	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	193	573	725	0	0
2	Vertical	193	573	725	0	0

**Bearings**

Bearing Length	Dir.	Cap.	React D/L lb	Total Ld.	Case	Ld. Comb.
1 - SPF 3.500"	Vert	25%	573 / 725	1298	L	D+S
2 - SPF 3.500"	Vert	25%	573 / 725	1298	L	D+S

**Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2846 ft-lb	4'10"	15318 ft-lb	0.186	(19%) D+S	L
Unbraced	2846 ft-lb	4'10"	7971 ft-lb	0.357	(36%) D+S	L
Shear	1019 lb	1'3/4"	7198 lb	0.142	(14%) D+S	L
LL Defl Inch	0.053 (L/2102)	4'10"	0.230 (L/480)	0.228	(23%) S	L
TL Defl Inch	0.094 (L/1174)	4'10"	0.460 (L/240)	0.204	(20%) D+S	L

**Design Notes**

1. Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
2. Girders are designed to be supported on the bottom edge only.
3. Multiple plies must be fastened together as per manufacturer's details.
4. Top loads must be supported equally by all plies.
5. Top must be laterally braced at end bearings.
6. Bottom must be laterally braced at end bearings.
7. Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Thb Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const 1.25	Comments
1	Uniform	1-0-0	Top	Top	10 PSF	40 PSF	0 PSF	0 PSF	0 PSF	
2	Uniform	Top	Top	Top	100 PLF	0 PLF	150 PLF	0 PLF	0 PLF	105GE
	Self Weight									9 PLF

**Notes**

- Calculated Staircase Design is responsible only of the structure adequacy of the component based on the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.
- Lumber**
1. Dry service conditions, unless noted otherwise.
  2. LVL not to be treated with fire retardant or preservative.

**Handling & Installation**

1. LVL beams must not be cut or drilled.
2. Refer to manufacturer's product information for handling, storage, and installation details, beam strength values, and code approvals.
3. Damaged beams must not be used.
4. Design beams top edge is laterally supported.
5. Design beams bottom edge is laterally supported.
6. Lateral displacement and rotation.

**Manufacturer Info**

Roseburg Forest Products  
 4500 Riddle By-Pass Rd  
 Riddle, OR 97148  
 (541) 784-4005  
 www.roseburg.com  
 APA - PR-L289 PR-L270 ICC-ES:  
 ESR-1210

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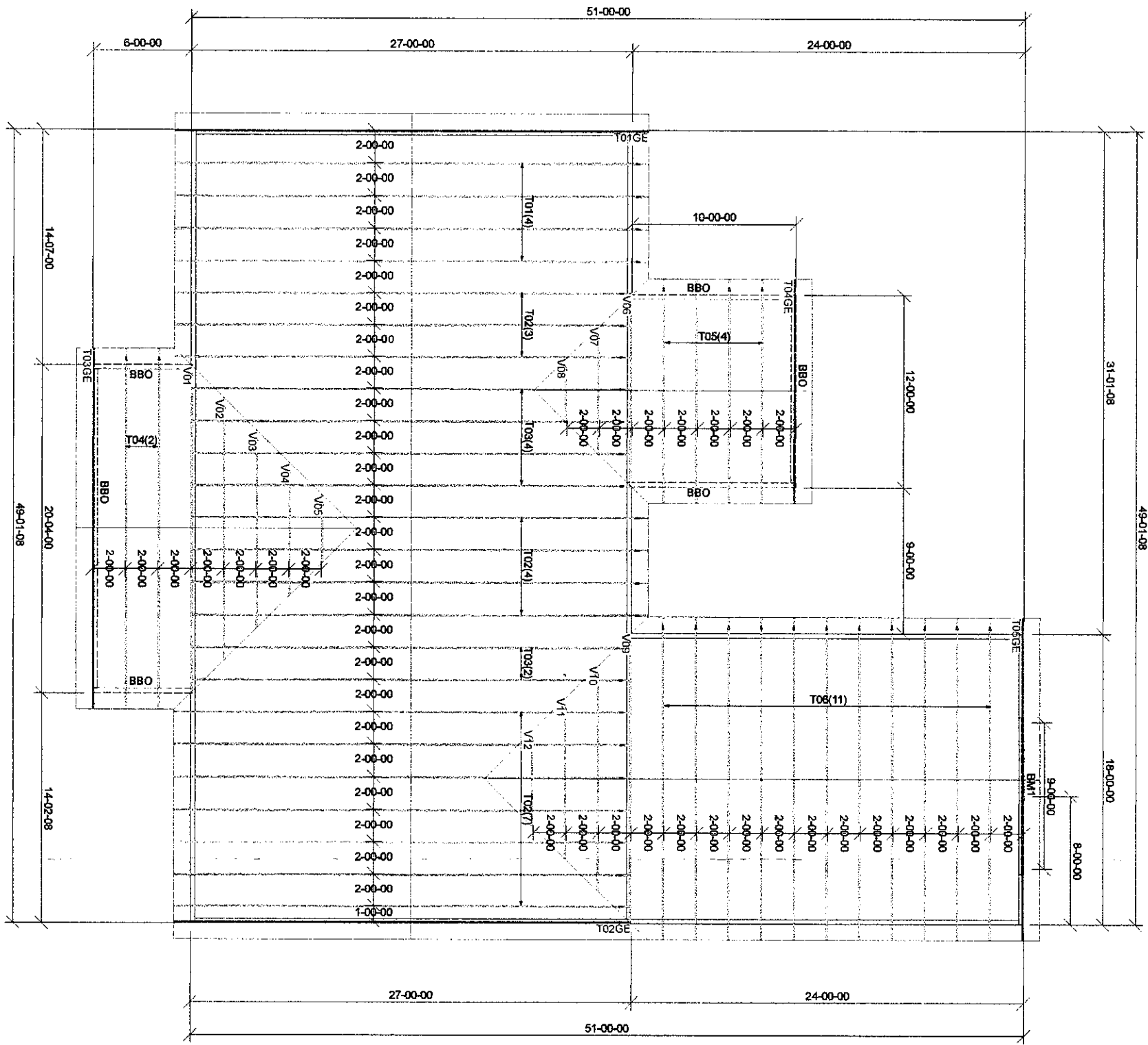
6. For full rules provide proper design to prevent  
 pending



1. All bracing, blocking, beams, purlins @ 2'0" o.c., ledger, etc. provided by others.
2. Roof truss to roof truss connections provided by Riverside Roof Truss.
3. Truss to building connections provided by others.

Refer to Sealed drawings for connection detail of multiple ply trusses.

NOT ALL TRUSSES ARE SYMMETRICAL AND MAY NOT PERFORM CORRECTLY IF INSTALLED BACKWARDS. PLEASE REFER TO SEALS WHILE SETTING TRUSSES TO ENSURE TRUSSES ARE ORIENTED CORRECTLY.



PLEASE VERIFY  
ROOF PITCH OF REAR PORCH


THIS SYMBOL INDICATES THE LEFT END OF TRUSS - REFER TO SEALED TRUSS DRAWINGS TO AVOID SETTING TRUSSES BACKWARDS!



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, columns, and sufficient blocking in floor cavity under point loads is the responsibility of the building designer. For general guidance regarding bracing, consult "Bracing of Wood Trusses" available from the Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53179.

THIS LAYOUT IS THE SOLE SOURCE FOR FABRICATION OF TRUSSES AND VOIDS ALL PREVIOUS ARCHITECTURAL OR OTHER TRUSS LAYOUTS. REVIEW AND APPROVAL OF THIS LAYOUT MUST BE RECEIVED BEFORE ANY TRUSSES WILL BE BUILT. VERIFY ALL CONDITIONS TO INSURE AGAINST CHANGES THAT WILL RESULT IN EXTRA CHARGES TO YOU.

REVIEWED BY: \_\_\_\_\_ APPROVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

 <b>RIVERSIDE ROOF TRUSS, LLC</b>	<b>733 RIVER PARK DRIVE DANVILLE, VA 24540 (434) 793-0217 FAX: (434) 799-8767</b>	<b>Hanger Conversion Chart</b>		<b>Client: PROFESSIONAL BUILDERS SUPPLY</b> <b>Job Name: MORRESEMILL/JOHNSON-RAMBEAU ROOF</b>			
		USP JUS26 THD26 THD26-2 HJC26 MSH422	Simpson LUS26 HUS26 HHUS26-2 THJA26 THA422	Model: Lot #: Order #: <b>22-1667-A</b>	Sales Rep: <b>C Walden</b>	Designer: <b>P K</b>	Date: <b>3/10/2022</b>
Roof Surface Area: 2501 ft <sup>2</sup> Sq. Ft. Floor Surface Area: 0 ft <sup>2</sup> Sq. Ft.							