

Roof 171 FT  
 (12/ 6.00)  
 (1 / 13.00)  
 (1 / 11.00)  
 (1 / 9.00)  
 (1 / 7.00)  
 (1 / 5.00)  
 (1 / 3.00)  
 (1 / 1.00)  
 (1 / 2.00)  
 (1 / 4.00)  
 (1 / 8.00)  
 (1 / 10.00)  
 (1 / 12.00)  
 (1 / 14.00)

**ROOF PLAN NOTES:**

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES
2. ALL RIDGE BEAMS, HIP RAFTERS, & VALLEY RAFTERS TO BE 2" X 10", No.2 S.Y.F. OR AS REQ'D BY ENGINEER.
3. ALL RAFTERS TO BE SIZED AS PER SPAN CHART.
4. CONTRACTOR TO WATERPROOF ALL ROOF INTERSECTIONS AS PER CODE.
5. CONTRACTOR TO VERIFY ALL ROOF PITCHES WITH EXTERIOR ELEVATIONS PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION AS PER CODE.

MAXIMUM HEADER SPANS		
HEADER SPANS FOR EXTERIOR BEARING WALLS SOUTHERN PINE 42 OR BETTER LIVE LOAD=30psf DEAD LOAD = 10psf		
ALL SPANS ARE ASSUMING A MAXIMUM OF 24 FEET OF SUPPORTED ROOF FRAMING		
SUPPORTING ROOF AND CEILING ONLY		
SIZE NUMBER OF PILES IN ( )	MAXIMUM SPAN (FEET AND INCHES)	JACK STUDS
(2) 2x6	4-7	1
(2) 2x8	5-4	1
(2) 2x10	6-10	2
(2) 2x12	8-1	2
(3) 2x8	7-3	1
(3) 2x10	6-7	2
(3) 2x12	10-1	2
SUPPORTING ROOF, CEILING AND ONE CENTER BEARING FLOOR		
SIZE NUMBER OF PILES IN ( )	MAXIMUM SPAN (FEET AND INCHES)	JACK STUDS
(2) 2x10	5-8	2
(2) 2x12	6-8	2
(3) 2x10	7-2	2
(3) 2x12	6-5	2

NOTES:  
 1. THE ABOVE INFORMATION IS FROM THE 2018 IRC TABLE R602.7(1).  
 2. PLEASE REFER TO THE IRC 2018 FOR ADDITIONAL LUMBER SPECIES AND HEADER OPTIONS.  
 3. ALL HEADER SIZES SHALL BE DESIGNED/VERIFIED BY A LOCAL PROFESSIONAL.

HIP/VALLEY CONVERSION			
IF COMMON RAFTER ROOF PITCH IS:		THEN HIP/VALLEY RAFTER ROOF PITCH BECOMES:	
RISE:RUN	SLOPE	RISE:RUN	SLOPE
1/12	5"	1/11	5"
2/12	10"	2/11	11"
3/12	14"	3/11	15"
4/12	18"	4/11	19"
5/12	23"	5/11	24"
6/12	27"	6/11	29"
7/12	32"	7/11	34"
8/12	36"	8/11	39"
9/12	41"	9/11	44"
10/12	46"	10/11	49"
11/12	51"	11/11	54"
12/12	56"	12/11	59"

CONVERSION CHART FOR SIMPLE ROOFS ONLY. CHART DOES NOT APPLY FOR DUAL PITCH ROOFS.

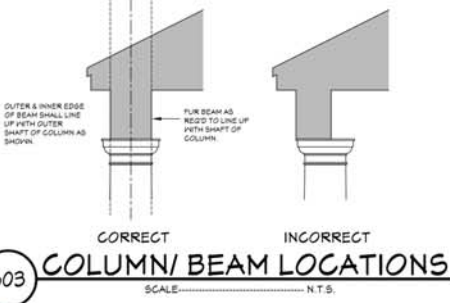
RAFTER LENGTH CHART		
ROOF PITCH	FACTOR	
3/12	1.05	
4/12	1.07	
5/12	1.10	
6/12	1.14	
7/12	1.17	
8/12	1.20	
9/12	1.25	
10/12	1.30	
11/12	1.35	
12/12	1.40	
14/12	1.54	
16/12	1.70	

MULTIPLY HORIZONTAL SPAN OF MEMBER BY FACTOR. CHOOSE APPROPRIATE FACTOR BY ROOF PITCH.

**CEILING JOIST SPANS**

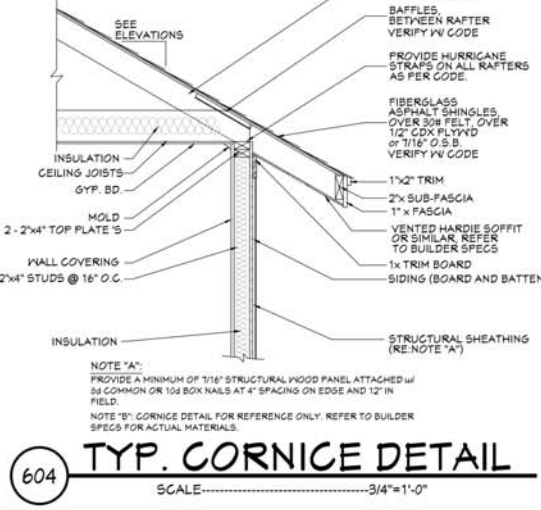
CEILING JOIST SPANS FOR SOUTHERN PINE SPECIES (UNINHABITABLE ATTICS WITH LIMITED STORAGE, LIVE LOAD = 20psf, L <sub>10</sub> =240' DEAD LOAD = 10psf)		
REFER TO THE INTERNATIONAL RESIDENTIAL CODE, SPAN TABLES ***		
***IF HABITABLE ATTIC SPACE IS DESIRED, VISUALLY GRADED #2 SOUTHERN PINE (MAXIMUM CEILING JOIST SPANS) (FT. - IN.)		
SIZE	SPACING (INCHES)	MAXIMUM CEILING JOIST SPANS (FT. - IN.)
2x4	12.0	4-3
	16.0	3-0
	19.2	2-4
	24.0	6-7
2x6	12.0	13-11
	16.0	12-0
	19.2	11-0
	24.0	9-10
2x8	12.0	17-1
	16.0	15-3
	19.2	13-11
	24.0	12-8
2x10	12.0	20-11
	16.0	18-1
	19.2	16-6
	24.0	14-4

NOTES:  
 The above tables are based on the IRC 2018 TABLE R602.5.1(2)



RAFTER SPANS		
RAFTER SPANS FOR SOUTHERN PINE SPECIES LIVE LOAD=30psf, L <sub>10</sub> =180' DEAD LOAD = 10psf		
SIZE	SPACING (INCHES)	SPANS (MAXIMUM RAFTER SPANS BETWEEN BRACING) (FT. - IN.)
2x6	12.0	12-11
	16.0	11-2
	19.2	10-2
	24.0	9-2
2x8	12.0	16-4
	16.0	14-2
	19.2	12-11
	24.0	11-7
2x10	12.0	19-5
	16.0	16-10
	19.2	15-4
	24.0	13-4
2x12	12.0	22-10
	16.0	18-10
	19.2	16-1
	24.0	16-2

NOTES:  
 The above tables are based on the IRC 2018 TABLE R602.4.1(3)



- 2"x6" Rafters@24" O.C
- Roof
- 12:12 Roof 2X6 Rafters @24O.C
- 10' PLATE HT
- 14'-8" PLATE HT
- shingles roof
- Roof
- 12:12 roof Area
- Metal Roof Area
- 2X10 Ridge Beam
- purlines 2x6
- Valley Rafter
- 1/2 Plywood

- 1932.6 SQ FT
- 976.3 FT
- 239.8 SQ FT
- 230.0 FT
- 31.1 FT
- 1746.2 SQ FT
- 114.4 FT
- 147.8 SQ FT
- 277.6 SQ FT
- 62.2 FT
- 184.6 FT
- 35.4 FT
- 278.5 SQ FT

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**N.C.B.D.C.**  
 NATIONAL COUNCIL OF  
 HOME BUILDERS  
 JONATHAN L. BOONE  
 CERTIFICATION NO. 25-137

Pre-Drawn Plan ID:  
**1263**

Date: 05.10.22  
 Drawn By: R.B.W.

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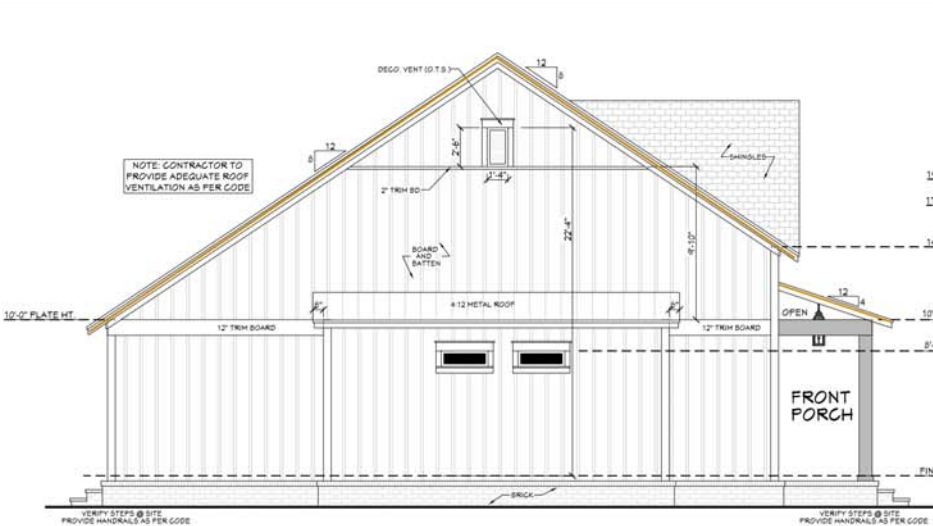


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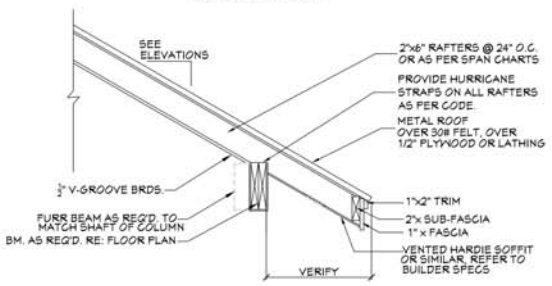
**402 LEFT VIEW**  
 SCALE: 1/4" = 1'-0"



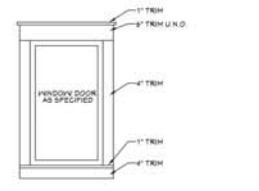
**401 FRONT VIEW**  
 SCALE: 1/4" = 1'-0"

**EXTERIOR ELEVATION NOTES:**

- CONTRACTOR TO VERIFY ALL WINDOW AND DOOR STYLES AND SIZES WITH OWNER PRIOR TO CONSTRUCTION.
- PROVIDE STEPS AND GUARD RAILS AS PER CODE BASED ON SITE CONDITIONS.
- GROUND LINES SHOWN FOR REFERENCE ONLY AND VARY DEPENDING ON SITE CONDITIONS.
- ALL FINISH MATERIALS TO BE VERIFIED WITH OWNER PRIOR TO CONSTRUCTION.
- REFER TO TYPICAL WALL DETAIL FOR FRAMING METHODS AND OTHER MISC. INFORMATION.
- CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION AS REQ'D BY CURRENT CODES.



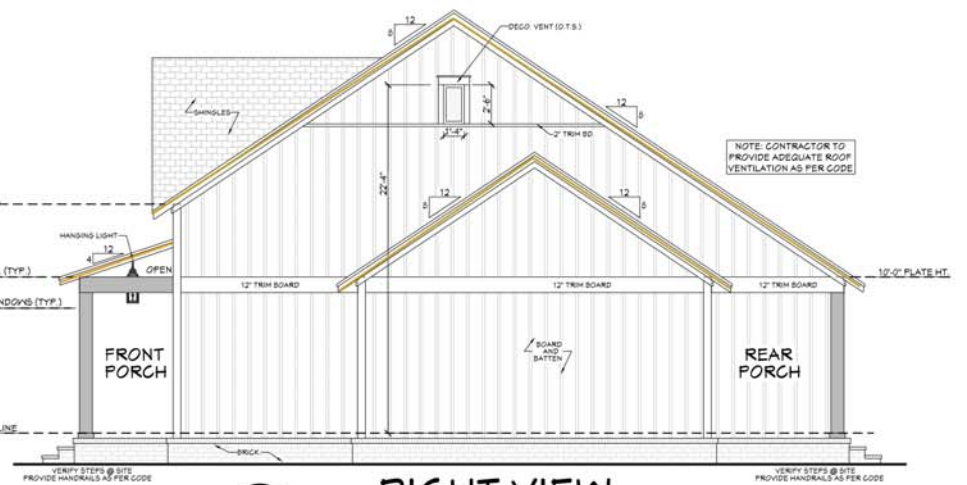
**405 SLOPED PORCH DETAIL**  
 SCALE: 3/4" = 1'-0"



**406 TYPICAL TRIM DETAIL**  
 SCALE: 1/2" = 1'-0"



	Rakes	166.9 FT
	2" Sub-Fascia	381.0 FT
	1"x2" Trim	298.6 FT



**403 RIGHT VIEW**  
 SCALE: 1/4" = 1'-0"

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