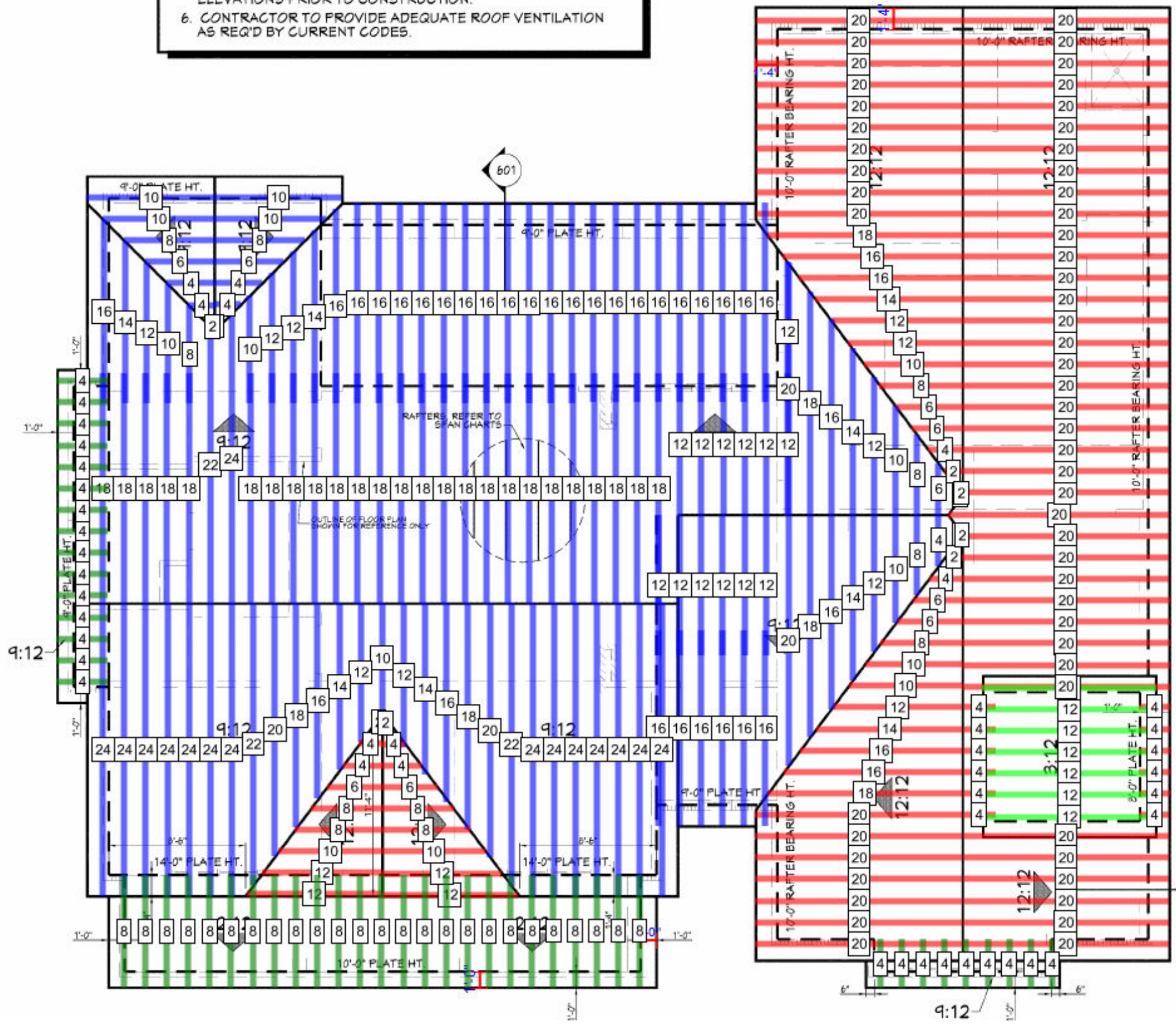


3. ALL RAFTERS TO BE SIZED AS PER SPAN CHART.
4. CONTRACTOR TO WATERPROOF ALL ROOF INTERSECTIONS AS PER CODE.
5. CONTRACTOR TO VERIFY ALL ROOF PITCHES WITH EXTERIOR ELEVATIONS PRIOR TO CONSTRUCTION.
6. CONTRACTOR TO PROVIDE ADEQUATE ROOF VENTILATION AS REQ'D BY CURRENT CODES.



HIP/VALLEY CONVERSION

IF COMMON RAFTER ROOF PITCH IS...		THEN HIP/VALLEY RAFTER ROOF PITCH BECOMES...	
RISE/RLN	SLOPE	RISE/RLN	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	30°	7/11	32°
8/12	34°	8/11	36°
9/12	37°	9/11	39°
10/12	40°	10/11	43°
11/12	42°	11/11	45°
12/12	45°	12/11	48°

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

RAFTER LENGTH CHART

ROOF PITCH	FACTOR
3/12	1.08
4/12	1.01
5/12	1.10
6/12	1.14
7/12	1.11
8/12	1.20
9/12	1.28
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.

2x6 1530 FT (7 / 12.00) (5 / 10.00) (6 / 8.00) (6 / 6.00) (18 / 4.00) (6 / 2.00) (55 / 20.00) (2 / 14.00) (4 / 16.00) (2 / 18.00)	2x6 2040 FT (32 / 16.00) (29 / 18.00) (4 / 20.00) (6 / 14.00) (20 / 12.00) (9 / 10.00) (5 / 8.00) (5 / 4.00) (4 / 2.00) (3 / 6.00) (3 / 22.00)	2x6 296 FT (24 / 4.00) (25 / 8.00) 2x6 84 FT (7 / 12.00)
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RAFTER

RAFTER SPANS FOR 50 psf LIVE LOAD = 30psf, L₁₀ = 180'

SIZE	SPACING (INCHES)
2 x 6	12.0
	16.0
	19.2
	24.0
2 x 8	12.0
	16.0
	19.2
	24.0
2 x 10	12.0
	16.0
	19.2
	24.0
2 x 12	12.0
	16.0
	19.2
	24.0

NOTES:
The above tables are based on the

CEILING JOIST

CEILING JOIST SPANS FOR UNINHABITABLE ATTICS WITH LIVE LOAD = 20psf, L₁₀ = 240'

***IF HABITABLE ATTIC SPANS REFER TO THE INTERNATIONAL RES.

SIZE	SPACING (INCHES)
2 x 4	12.0
	16.0
	19.2
	24.0
2 x 6	12.0
	16.0
	19.2
	24.0
2 x 8	12.0
	16.0
	19.2
	24.0
2 x 10	12.0
	16.0
	19.2
	24.0

NOTES:
The above tables are based on the