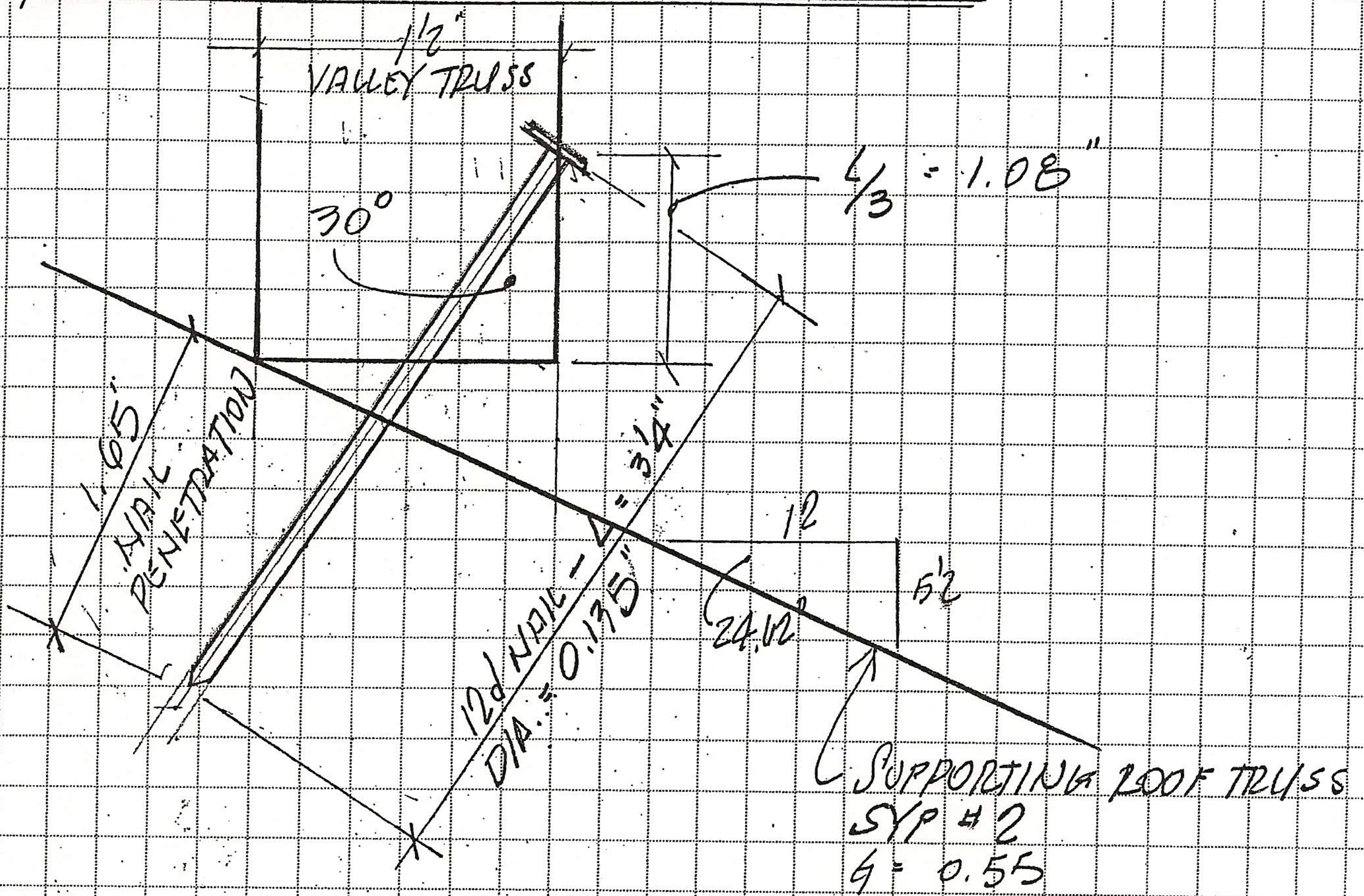


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2

JOB SUN CITY WIND UPLIFT CALCS.
 SHEET NO. 1 OF _____
 CALCULATED BY _____ DATE 2-12-07
 CHECKED BY _____ DATE _____
 SCALE _____

VALLEY SET NAILING TO SUPPORTING TRUSSES



NAIL WITHDRAWAL VALUE = $42^{\#}$ / IN. OF PENETRATION

EA. NAIL IN CONNECTION: $1.6 (0.67) (42) (1.65) = 74.29^{\#}$
 FOR TWO NAILS: $P = 74.29 (2) = 148.58^{\#}$ / CONN.

1.6 = WIND LOAD FACTOR
 0.67 = TOE NAIL FACTOR

NOTE:
 WIND EXPOSURE "B"
 MEAN ROOF HEIGHT < 30'

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JOB _____

SHEET NO. 2

OF _____

CALCULATED BY _____

DATE 2-12-07

CHECKED BY _____

DATE _____

SCALE _____

ROOF SLOPE $> 10^\circ$ TO 30°
130 MPH WIND

6:12 PITCH = 26.56° ($\cos = 0.8945$)

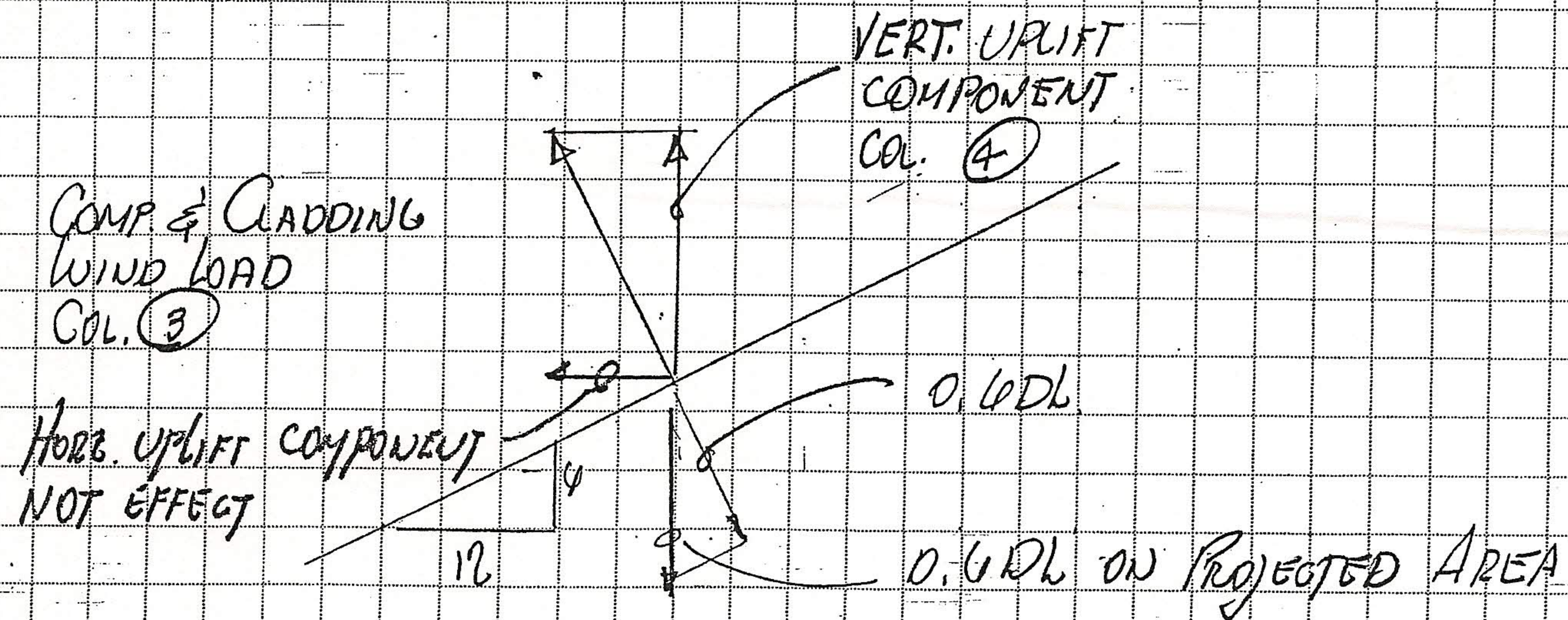
ZONE	AREA	UPLIFT #/FT ²	VERT UPLIFT #/FT ²	O.L.D.L.	NET UPLIFT #/FT ²
1	10	-27.8	24.86	5.36	-19.50
1	20	-27.0	24.15	5.36	-18.79
1	50	-20.0	23.26	5.36	-17.90
1	100	-25.2	22.54	5.36	-17.16
2	10 <u>58.7</u>	56.7	52.51	5.36	-47.15
2	20	53.3	47.66	5.36	-42.32
2	50	40.1	41.24	5.36	-35.66
2	100	40.1	36.40	5.36	-31.04
3	SAME AS 2				

① ② ③ ④ ⑤ ⑥

DEAD LOAD (#/FT²)
SHINGLES - 3.0
PLYWOOD 2.5
TRUSSES 2.5
Σ 8.0

DEAD LOAD ON PROJECTED AREA = $\frac{8.0}{0.8945} = 8.94 \text{ #/FT}^2$

O.L.D.L. = 5.36 #/FT^2



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JOB _____ OF _____
 SHEET NO. 3
 CALCULATED BY _____ DATE 2.12.07
 CHECKED BY _____ DATE _____

Roof Slope @ 32.67% (7.5/12) Case = 0.8418
 130 MPH WIND

ZONE	AREA	UPLIFT	VEPT. UPLIFT #/ft ²	O.6DL	VEPT. UPLIFT #/ft ²
1	10	-30.4	-25.59	5.70	-19.89
1	20	-28.9	-24.34	5.70	-18.42
1	50	-25.8	-21.72	5.70	-16.02
1	100	-25.2	-21.11	5.70	-15.51
2	10	-35.6	-29.97	5.70	-24.27
2	20	-34.0	-28.42	5.70	-22.92
2	50	-32.0	-26.99	5.70	-21.24
2	100	-30.4	-25.59	5.70	-19.89
3	10	5.44			
3	20	4.5			
3	50	4.5			
3	100	4.5			

DEAD LOAD ON PROJECTED AREA = $0.0 \frac{\#}{ft^2}$ \cdot $9.50 \frac{\#}{ft^2}$
 O.6DL = 5.70

SEE PG. 2 FOR DIAG. OF REACTION COMPONENTS

SCALE