Job	Truss	Truss Type	Qty	Ply	SANIVAL BOATS/MOD: B	0008
5A08	H4	ROOF TRUSS	9	1	Job Reference (optional)	

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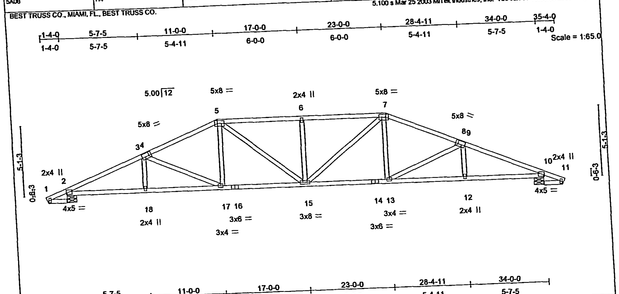
BEST TRUSS CO., MIAMI, FL., BEST TRUSS CO.



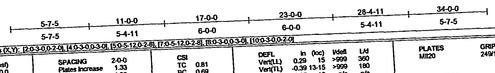


Plate Offsets (X,Y): [2:0-3-0,0-2-4], [4:0-3-0,0-3-0], [5:0-5-12,0-2-8], [7:0-5-12,0-2-8], [8:0-3-0,0-3-0], [10:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.81	Vert(LL)	0.20	15	>999	360	MI20	249/190
TCDL	15.0	Lumber Increase	1.33	BC	0.69	Vert(TL)	-0.39	13-15	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(TL)	0.13	10	n/a	n/a	Weight: 178 lb	
BCDL	10.0	Code FBC2001/ANSI/95		(Simplified)								

LUMBER
TOP CHORD 2 X 4 SYP No.2 *Except*
5-7 2 X 4 SYP SS
BOT CHORD 2 X 4 SYP No.2
WEBS 2 X 4 SYP No.3
OTHERS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 2-10-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-8-15 oc bracing.

REACTIONS (lb/size) 2=1994/0-8-0, 10=1994/0-8-0
Max Uplift2=-1300(load case 2), 10=-1300(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=17, 2-3=-3547, 3-4=-2993, 4-5=-2993, 5-6=-3178, 6-7=-3178, 7-8=-2993, 8-9=-2993, 9-10=-3547, 10-11=17
BOT CHORD 1-3=3154, 17-18=0/194, 16-17=2772, 15-16=2772, 14-15=2772, 13-14=2772, 12-13=3194, 10-12=3194
WEBS 3-18=108, 3-17=-478, 5-17=313, 5-15=521, 6-15=-334, 7-15=521, 7-13=313, 9-13=-478, 9-12=108

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 140mph; h=20ft; TCDL=5.0psf; BCDL=5.0psf; Category II; Exp C; enclosed;C-C interior zone;Lumber DOL=1.33 plate grip DOL=1.33.
3) Provide adequate drainage to prevent water ponding.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1300 lb uplift at joint 2 and 1300 lb uplift at joint 10.
5) This truss design conforms with Florida Building Code 2001, based on parameters indicated.

LOAD CASE(S)
1) Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-90.0, 5-7=-90.0, 7-11=-90.0, 2-10=-20.0
2) C-C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=173.8, 2-5=-71.8, 5-7=80.1, 7-10=71.8, 10-11=173.8, 2-10=-10.0
Horz: 1-2=183.8, 2-5=-81.8, 7-10=81.8, 10-11=183.8
Drag: 5-8=-0.1, 8-7=0.1
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-90.0, 5-7=-90.0, 7-11=-30.0, 2-10=-20.0
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-5=-30.0, 5-7=-90.0, 7-11=-90.0, 2-10=-20.0

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