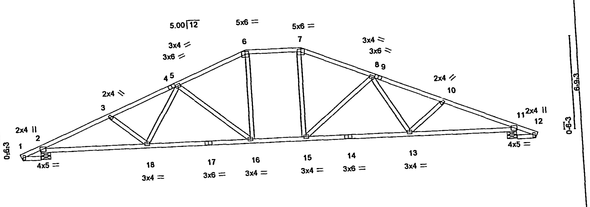
Job	Truss	Truss Type	Qty	Ply	SANYAL BOATS/ MOD. B	0011
5A08	H6	ROOF TRUSS	4	1	Job Reference (optional) 5.100 s Mar 25 2003 MiTek Industries, Inc. Tue Jan 11 10:55:06 2005 Page 1	

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

1-4-0 | 5-1-12 | 10-0-14 | 15-0-0 | 19-0-0 | 23-11-2 | 28-10-4 | 34-0-0 | 35-4-0

1-4-0 | 5-1-12 | 4-11-2 | 4-11-2 | 4-0-0 | 4-11-2 | 4-11-2 | 5-1-12 | 1-4-0

Scale = 1:65.0



7-7-5 | 15-0-0 | 19-0-0 | 26-4-11 | 34-0-0

7-7-5 | 7-4-11 | 4-0-0 | 7-4-11 | 7-7-5

Plate Offsets (X,Y): [2:0-3-0,0-2-4], [6:0-3-0,0-2-4], [7:0-3-0,0-2-4], [11:0-3-0,0-2-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/def	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.80	Vert(LL)	-0.37	13-15	>999	360	MI20	249/190
TCDL	15.0	Lumber Increase	1.33	BC	0.77	Vert(TL)	-0.56	13-15	>712	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(TL)	0.14	11	n/a	n/a	Weight: 175 lb	
BCDL	10.0	Code FBC2001/ANSI95		(Matrix)								

LUMBER
TOP CHORD 2 X 4 SYP No.2
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 3-1-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-10-15 oc bracing.

REACTIONS (lb/size) 2=10904/0-8-0, 11=10904/0-8-0
Max Uplift2=-1356(load case 2), 11=-1356(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=0, 2-3=-3638, 3-4=-3368, 4-5=-3181, 5-6=-2809, 6-7=-2339, 7-8=-2809, 8-9=-3181, 9-10=-3368, 10-11=-3638, 11-12=35
BOT CHORD 3-18=3182, 17-18=2865, 16-17=2865, 15-16=2339, 14-15=2865, 13-14=2865, 11-13=3182
WEBS 3-18=-205, 5-18=337, 5-16=-715, 6-16=579, 7-15=579, 8-15=-715, 8-13=337, 10-13=-205

NOTES
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-98; 145mph; 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 1356 lb uplift at joint 2 and 1356 lb uplift at joint 11.
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: 1-2=-90.0, 6-7=-90.0, 7-12=-90.0, 2-11=-20.0
2) C-C Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-2=173.8, 2-6=71.8, 6-7=90.1, 7-11=71.8, 11-12=173.0, 2-11=-10.0
Horz: 1-2=-183.8, 2-6=-81.8, 7-11=-81.8, 11-12=183.8
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-90.0, 6-7=-90.0, 7-12=-30.0, 2-11=-20.0
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-6=-30.0, 6-7=-90.0, 7-12=-90.0, 2-11=-20.0

4