Job	Truss	Truss Type	Qty	Ply	SANYAL BOATS/MOD B	0015
SA06	H01	ROOF TRUSS	4	2	Job Reference (optional)	

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

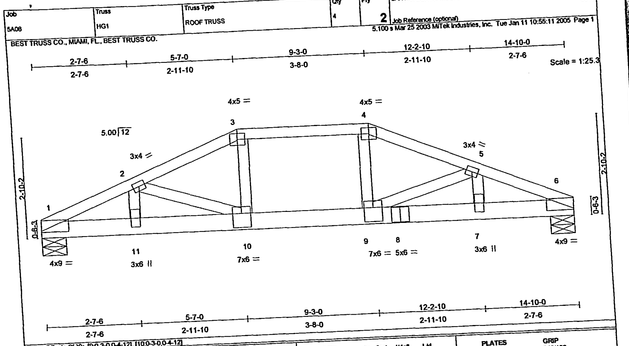

Plate Offsets (X,Y): [9:0-3-0,0-4-0],[10:0-3-0,0-4-0]

LOADING (psf)		SPACING	2-0-0	CSI		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plates Increase	1.33	TC	0.72	Vert(LL)	0.17	9-10	>984	360	MI20	249/190
TCDL	15.0	Lumber Increase	1.33	BC	0.61	Vert(TL)	-0.23	9-10	>754	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.60	Horz(TL)	0.06	6	n/a	n/a		
BCDL	10.0	Code FBC2001/ANSI/95		(Matrix)							Weight: 152 lb	

LUMBER
TOP CHORD 2 X 4 SYP No.2
BOT CHORD 2 X 6 SYP SS
WEBS 2 X 4 SYP No.3

BRACING
TOP CHORD Sheathed or 3-3-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-1-14 oc bracing.

REACTIONS (lb/size) 1=7478/0-8-0, 6=7478/0-8-0
Max Uplift1=-4054(load case 2), 6=-4054(load case 2)

FORCES (lb) - First Load Case Only
TOP CHORD 1-2=-12988, 2-3=-11611, 3-4=-10542, 4-5=-11511, 5-6=-12988
BOT CHORD 1-11=11405, 10-11=11405, 9-10=10942, 8-9=11405, 7-8=11405, 6-7=11405
WEBS 2-11=1785, 2-10=-750, 3-10=3072, 4-9=-3072, 5-9=-750, 5-7=1785

NOTES
1) 2 ply truss to be connected together with 10d Common(.148"x3") Nails as follows:
Top chords connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2 X 6 - 2 rows at 0-9-0 oc.
Webs connected as follows: 2 X 4 - 1 row at 0-9-0 oc.
2) Unbalanced roof live loads have been considered for this design.
3) Wind: ASCE 7-98; 140mph; h=20ft; TCDL=6.0psf; BCDL=5.0psf; Category II; Exp C; enclosed;C-C Interior zone;Lumber DOL=1.33 plate grip DOL=1.33.
4) Provide adequate drainage to prevent water ponding.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4054 lb uplift at joint 1 and 4054 lb uplift at joint 6.
6) This truss design conforms with Florida Building Code 2001, based on parameters indicated.
7) Girder carries tie-in span(s): 34-2-0 from 0-0-0 to 14-10-0
8) Girder carries hip end with 5-7-0 and attached.
9) Special hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 418.0lb down and 274.7lb up at 9-3-0, and 418.0lb down and 274.7lb up at 5-7-0 on bottom chord. The design/selection of such special connection device(s) is the responsibility of others.

LOAD CASE(S)
1) Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-90.0, 3-4=-155.8, 4-6=-90.0, 1-10=-886.3, 9-10=-903.8, 6-9=-886.3
Concentrated Loads (lb)
Vert: 10=-418.0 9=-418.0
2) C.C.Wind: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=72.8, 3-4=136.5, 4-6=72.9, 1-10=446.0, 9-10=436.7, 6-9=446.0
Horz: 1-3=-82.9, 4-6=82.9
Concentrated Loads (lb)
Vert: 10=274.7 9=274.7
3) 1st unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-90.0, 3-4=-155.8, 4-6=-30.0, 1-10=-886.3, 9-10=-903.8, 6-9=-886.3
Concentrated Loads (lb)
Vert: 10=-418.0 9=-418.0
4) 2nd unbalanced Regular: Lumber Increase=1.33, Plate Increase=1.33
Uniform Loads (plf)
Vert: 1-3=-30.0, 3-4=-155.8, 4-6=-90.0, 1-10=-886.3, 9-10=-903.8, 6-9=-886.3

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