

Job	Truss	Truss Type	Qty	Ply	Crossroads Branch
CROSSROADS	T05	ROOF TRUSS	1	1	Job Reference (optional)
Glaize Components, Shelby, NC 28150			6.200 s Oct 18 2005 MiTek Industries, Inc. Mon Dec 18 17:16:10 2006 Page 1		

2-0-0	6-3-0	9-3-0	18-3-8	21-11-8	27-9-0	33-6-8	42-0-12	50-7-0	60-5-0	62-5-0
2-0-0	6-3-0	3-0-0	9-0-8	3-8-0	5-9-8	5-9-8	8-6-4	8-6-4	9-10-0	2-0-0
Scale = 1:104.8										

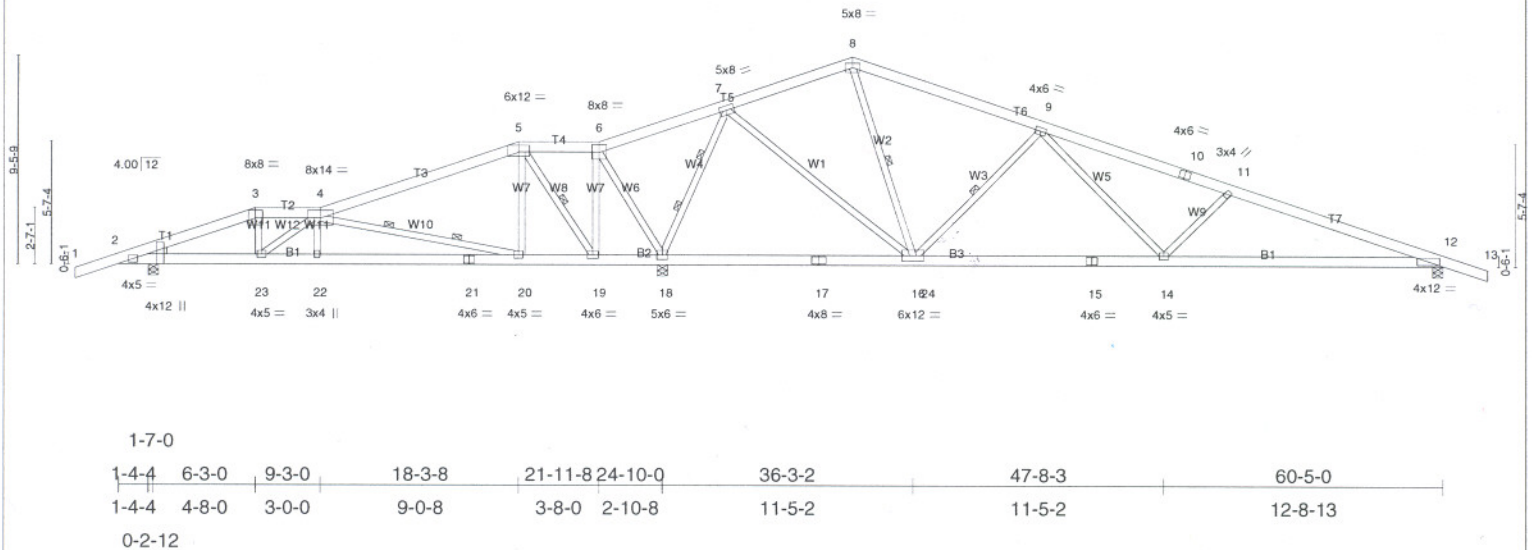


Plate Offsets (X,Y): [2:0-0-4,Edge], [2:0-5-6,0-0-10], [5:0-6-0,0-3-8]					
LOADING (psf)	SPACING	CSI	DEFL	PLATES	GRIP
TCLL 30.0	2-0-0	TC 0.81	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plates Increase 1.15	BC 0.95	Vert(LL) -0.35 12-14 >999 360	Weight: 425 lb	
BCLL 10.0	Lumber Increase 1.15	WB 0.92	Vert(TL) -0.53 12-14 >796 240		
BCDL 5.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.06 12 n/a n/a		
	Code IBC2003/TPI2002		Wind(LL) 0.08 12-14 >999 240		

LUMBER	BRACING
TOP CHORD 2 X 6 SYP No.2	TOP CHORD Structural wood sheathing directly applied or 2-11-8 oc purlins.
BOT CHORD 2 X 6 SYP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2 X 4 SYP No.3	WEBS 1 Row at midpt 5-19, 8-16, 9-16
WEDGE	2 Rows at 1/3 pts 4-20, 7-18
Left: 2 X 4 SYP No.2	

REACTIONS (lb/size)	2=768/0-5-8, 18=3981/0-5-8, 12=1484/0-5-8
Max Horz2=	105(load case 7)
Max Uplift2=	193(load case 6), 18=-452(load case 8), 12=-298(load case 7)
Max Grav2=	1144(load case 3), 18=4677(load case 2), 12=1993(load case 4)

FORCES (lb) - Maximum Compression/Maximum Tension	
TOP CHORD	1-2=0/54, 2-3=-1813/196, 3-4=-1639/205, 4-5=-44/977, 5-6=-105/1828, 6-7=-216/2509, 7-8=-1101/251, 8-9=-1285/244, 9-10=-3117/444, 10-11=-3339/419, 11-12=-3973/510, 12-13=0/54
BOT CHORD	2-23=-216/1620, 22-23=-252/1816, 21-22=-255/1805, 20-21=-255/1805, 19-20=-866/221, 18-19=-1863/270, 17-18=-1044/209, 17-24=-1044/209, 16-24=-1044/209, 15-16=-154/2145, 14-15=-154/2145, 12-14=-389/3640
WEBS	3-23=-22/275, 4-23=-223/213, 4-22=0/204, 4-20=-2238/317, 5-20=-25/850, 5-19=-1999/235, 6-19=-202/1283, 6-18=-1056/231, 7-18=-3320/333, 7-16=-197/2468, 8-16=-102/263, 9-16=-1538/291, 9-14=-122/1339, 11-14=-859/222

- NOTES**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-02; 90mph; h=25ft; TCDL=5.0psf; BCDL=3.0psf; Category II; Exp B; enclosed; MWFRS gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33.
 - 3) TCLL: ASCE 7-02; Pr=30.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Pf=21.0 psf (flat roof snow: Lumber DOL=1.00 Plate DOL=1.00); Category II; Exp B; Partially Exp.; Ct= 1
 - 4) Unbalanced snow loads have been considered for this design.
 - 5) This truss has been designed for greater of min roof live load of 20.0 psf or 1.00 times flat roof load of 21.0 psf on overhangs non-concurrent with other live loads.
 - 6) **WARNING:** The unusually long span and/or configuration of this truss requires that extreme care be used in its application. Use proper transportation, unloading and erection methods. Assure that all required web lateral bracing is communicated to the building contractor. Ensure that over-all building bracing is designed by a qualified engineer, architect, or building designer.
 - 7) Provide adequate drainage to prevent water ponding.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 193 lb uplift at joint 2, 452 lb uplift at joint 18 and 298 lb uplift at joint 12.
 - 11) This truss is designed in accordance with the 2003 International Building Code section 2306.1 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard