Job	Truss	Truss Type	Qty	Ply	
67131	P1268101	FINK	1	1	West Chester 212 7 GARAGE 24' 15 3/4 OH Designer:SM (PA 18921)

Universal Forest Products Inc., Grand Rapids, MI 49525, Steve Minahan — 7.350 e Sep 27 2012 MiTek Industries, Inc. Tue Mar 19 10:13:37 2013 Page 1 of 1

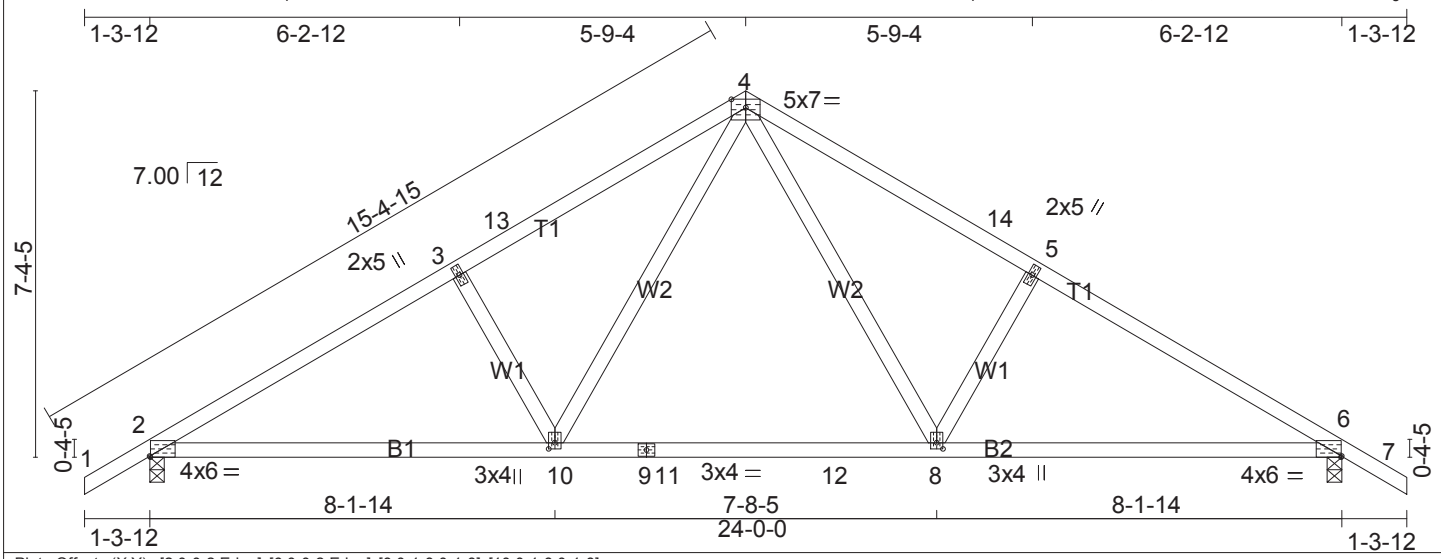

Plate Offsets (X,Y): [2:0-0-2,Edge], [6:0-0-2,Edge], [8:0-1-8,0-1-8], [10:0-1-8,0-1-8]

SPACING: 2-0-0		SPACING: 1-4-0		SPACING: 1-0-0		SPACING	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
LOADING (psf)		LOADING (psf)		LOADING (psf)		Plates Increase	1.15	TC	0.94	Vert(LL)	-0.20	8-10	>999	240	MT20	197/144
TCLL	42.3	TCLL	63.5	TCLL	84.7	Lumber Increase	1.15	BC	0.92	Vert(TL)	-0.34	6-8	>838	180		
(Ground Snow=55.0)		(Ground Snow=82.5)		(Ground Snow=110.0)		Rep Stress Incr	YES	WB	0.62	Horz(TL)	0.08	6	n/a	n/a		
TCDL	10.0	TCDL	15.0	TCDL	20.0	Code	IBC2009/TPI2007	(Matrix)							Weight: 89 lb	
BCLL	0.0 *	BCLL	0.0 *	BCLL	0.0 *										FT = 0%	
BCDL	10.0	BCDL	15.0	BCDL	20.0											

LUMBER
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF Stud

BRACING
TOP CHORD Structural wood sheathing directly applied. [P]
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS (lb/size) 2=1399/0-3-8 (min. 0-2-14), 6=1399/0-3-8 (min. 0-2-14)
Max Horz 2=414(LC 8)
Max Uplift 2=-828(LC 9), 6=-828(LC 10)
Max Grav 2=1824(LC 19), 6=1824(LC 20)

FORCES (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/122, 2-3=-2444/1083, 3-13=-2034/1101, 4-13=-1871/1117, 4-14=-1871/1117, 5-14=-2034/1101, 5-6=-2444/1083, 6-7=0/122
BOT CHORD 2-10=-840/1917, 9-10=-375/1264, 9-11=-375/1264, 11-12=-375/1264, 8-12=-375/1264, 6-8=-711/1917
WEBS 3-10=-801/507, 4-10=-463/1039, 4-8=-463/1039, 5-8=-801/507

NOTES (12)
1) Wind: ASCE 7-05; 120mph (3-second gust) @24in o.c.; TCDL=3.0psf; BCDL=3.0psf; (Alt. 147mph @16in o.c.; TCDL=4.5psf; BCDL=4.5psf); (Alt. 150mph @12in o.c.; TCDL=6.0psf; BCDL=6.0psf); h=30ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-05; Pg=55.0 psf (ground snow); Ps=42.3 psf (roof snow); Category II; Exp C; Partially Exp.; Ct=1.1
3) Roof design snow load has been reduced to account for slope.
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 17.0 psf or 2.00 times flat roof load of 42.3 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for basic load combinations, which include cases with reductions for multiple concurrent live loads.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 828 lb uplift at joint 2 and 828 lb uplift at joint 6.
10) This truss has been designed in accordance with the 2009 IBC Section 2303.4.6, 2009 IRC Section 802.10.2.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) This truss has been designed to meet the 2003 IBC Section 2308.10.7.1; 2003 IRC R802.10.2

E-signed by Kevin Freeman

3/19/2013

The professional engineering seal indicates that a licensed professional has reviewed the design under the standards referenced within this document, not necessarily the current state building code. The engineering seal is not an approval to use in a specific state. The final determination on whether a truss design is acceptable under the locally adopted building code rest with the building official or designated appointee.