Job	Truss	Truss Type	Qty	Ply	Kilpin
R-8578-15	C2	Common	3	1	Job Reference (optional)

Accurate Housing Systems Inc., East Troy, WI, Brian Risley

Run: 7.610 s Jan 29 2015 Print: 7.610 s Jan 29 2015 MiTek Industries, Inc. Fri Sep 11 08:45:29 2015 Page 1
ID:fSWGDnVzGmXtXiUp214htwytCVc-uIeW9I77VaMDko1O4YQPoDBxcHQ4rN3RRPDmCOyeli4

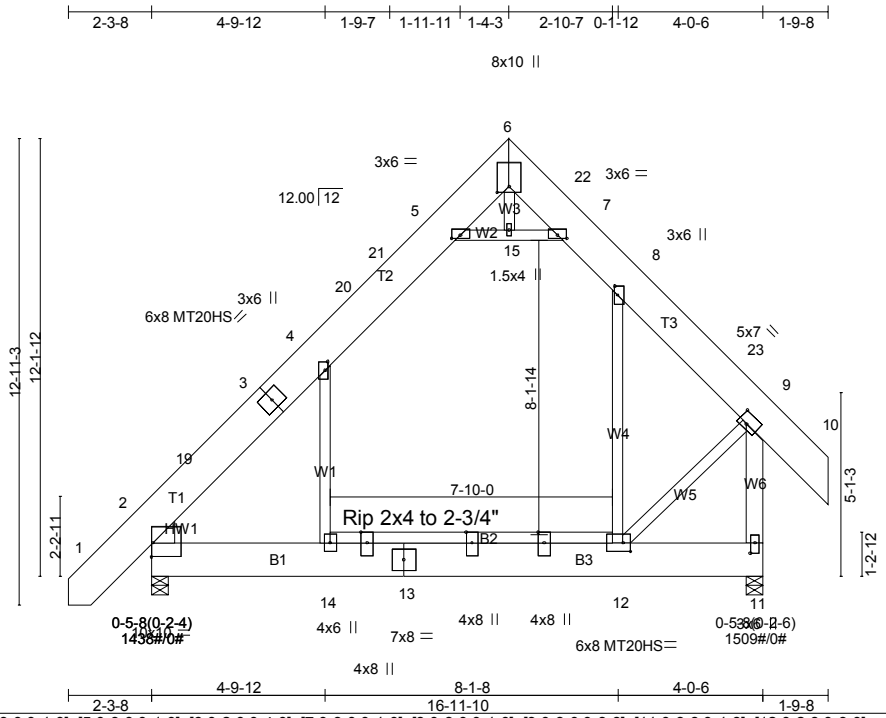

Plate Offsets (X,Y)– [2:Edge,0-4-12], [4:0-3-0,0-1-0], [5:0-3-0,0-1-0], [6:0-2-0,0-4-0], [7:0-3-0,0-1-0], [8:0-3-0,0-1-0], [9:0-3-0,0-3-8], [11:0-3-8,0-1-8], [12:0-2-8,0-3-0]

LOADING (psf)		SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	30.0	Plate Grip DOL 1.15	TC	0.25	Vert(LL)	-0.04	12-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC	0.35	Vert(TL)	-0.07	12-14	>999	180	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr YES	WB	0.23	Horz(TL)	0.01	2	n/a	n/a		
BCDL	10.0	Code IRC2006/TPI2002	(Matrix-M)		Wind(LL)	0.02	14	>999	240	Weight: 217 lb	FT = 10%

LUMBER-
TOP CHORD 2x12 SPF No.2
BOT CHORD 2x12 SPF No.2 *Except*
B2: 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
W6: 2x6 SPF No.2
WEDGE
Left: 2x8 SPF No.2

BRACING-
TOP CHORD Sheathed or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
This truss requires both edges of the bottom chord be sheathed in the room area.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1438/0-5-8 (min. 0-2-4), 11=1509/0-5-8 (min. 0-2-6)
Max Horz 2=291(LC 5)

FORCES. (lb) - Maximum Compression/Maximum Tension
TOP CHORD 1-2=0/112, 2-19=-1191/37, 3-19=-1170/0, 3-4=-988/0, 4-20=-771/43, 20-21=-684/68, 5-21=-573/83, 5-6=-87/89, 6-22=-71/69, 7-22=-115/40, 7-8=-666/76, 8-23=-890/60, 9-23=-1035/35, 9-10=0/114, 9-11=-1683/0
BOT CHORD 2-14=-188/626, 13-14=0/634, 12-13=0/634, 11-12=-26/63
WEBS 4-14=-34/427, 5-15=-730/116, 7-15=-730/116, 8-12=-78/356, 6-15=-10/175, 9-12=0/926

NOTES-
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -1-11-14 to 1-0-2, Interior(1) 1-0-2 to 6-11-1, Exterior(2) 6-11-1 to 9-11-1, Interior(1) 13-1-8 to 15-9-2 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) All plates are MT20 plates unless otherwise indicated.
4) Plates checked for a plus or minus 5 degree rotation about its center.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * 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.
7) Ceiling dead load (5.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).4-14, 8-12
8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (5.0 psf) applied only to room. 12-14
9) This truss is designed in accordance with the 2006 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard