Job	Truss	Truss Type	Qty	Ply	Alpine House
ML30882	R1001	ROOF SPECIAL	1	1	Job Reference (optional)

Delta Building Center, Delta. Co 81416

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ID:x7ESDb7L4eOhZf626RfOP1yHdpe-9NyVoQxkAydhTKMfe4uc9oWNrHkLZhU5hAhjAQzmFKX

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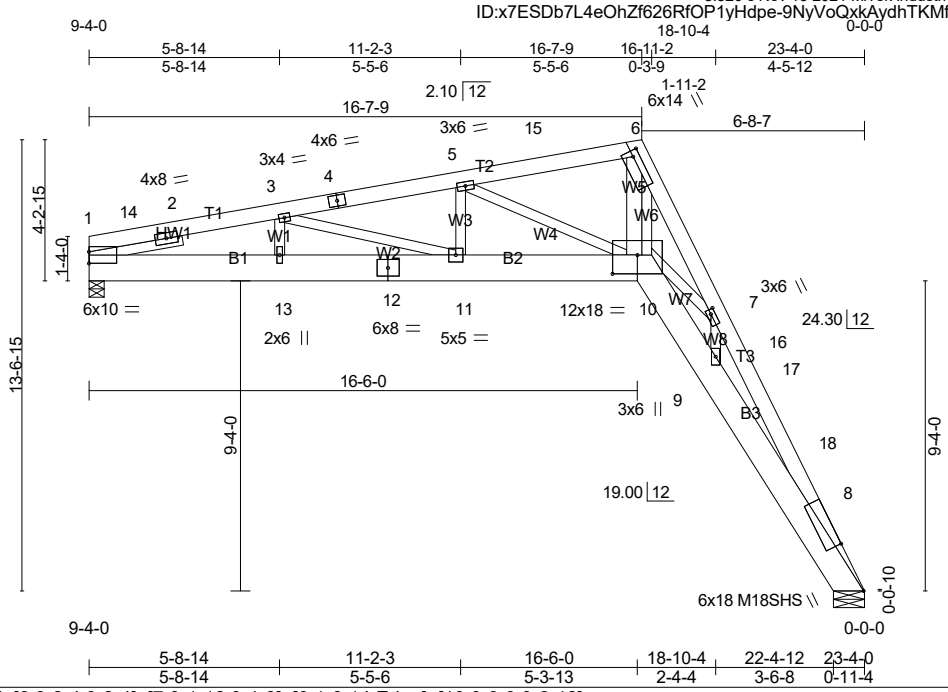

Plate Offsets (X,Y)-- [1:Edge,0-4-3], [6:0-2-4,0-2-4], [7:0-1-12,0-1-8], [8:1-6-14,Edge], [10:0-9-0,0-6-12]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	85.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.36	11-13	>772	240	MT20	197/144
(Roof Snow=85.0)		Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.43	11-13	>636	180	M18SHS	197/144
TCDL	10.0	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.62	8	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							Weight: 192 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x6 SPF 2100F 1.8E
BOT CHORD 2x10 DF-N 1950F 1.7E
WEBS 2x4 SPF 1650F 1.5E *Except*
W5: 2x6 SPF 1650F 1.5E
SLIDER Left 2x4 SPF 1650F 1.5E 2-10-4

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-4-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

REACTIONS. (lb/size) 8=1601/0-11-4 (min. 0-1-8), 1=1601/0-5-8 (min. 0-2-0)
Max Horz 1=-288(LC 15)
Max Uplift8=-138(LC 15), 1=-76(LC 14)
Max Grav 8=1601(LC 1), 1=1874(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-4827/341, 2-14=-4668/342, 2-3=-4703/355, 3-4=-4483/230, 4-5=-4344/237, 5-15=-2089/25, 6-15=-1992/31, 6-7=-5006/0, 7-16=-4237/292, 16-17=-4282/285, 17-18=-4361/277, 8-18=-4626/276
BOT CHORD 1-13=-51/4562, 12-13=-51/4562, 11-12=-51/4562, 10-11=0/4345, 9-10=-8/3686, 8-9=0/3268
WEBS 3-13=-384/61, 5-11=-1/539, 5-10=-2649/274, 7-9=-520/50, 6-10=0/4397, 7-10=-228/666

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 16-5-12, Exterior(2R) 16-5-12 to 19-5-12, Interior(1) 19-5-12 to 22-10-6 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.00 plate grip DOL=1.00
2) TCLL: ASCE 7-16; Pf=85.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) All plates are MT20 plates unless otherwise indicated.
5) Plates checked for a plus or minus 5 degree rotation about its center.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 8 and 76 lb uplift at joint 1.
10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard