

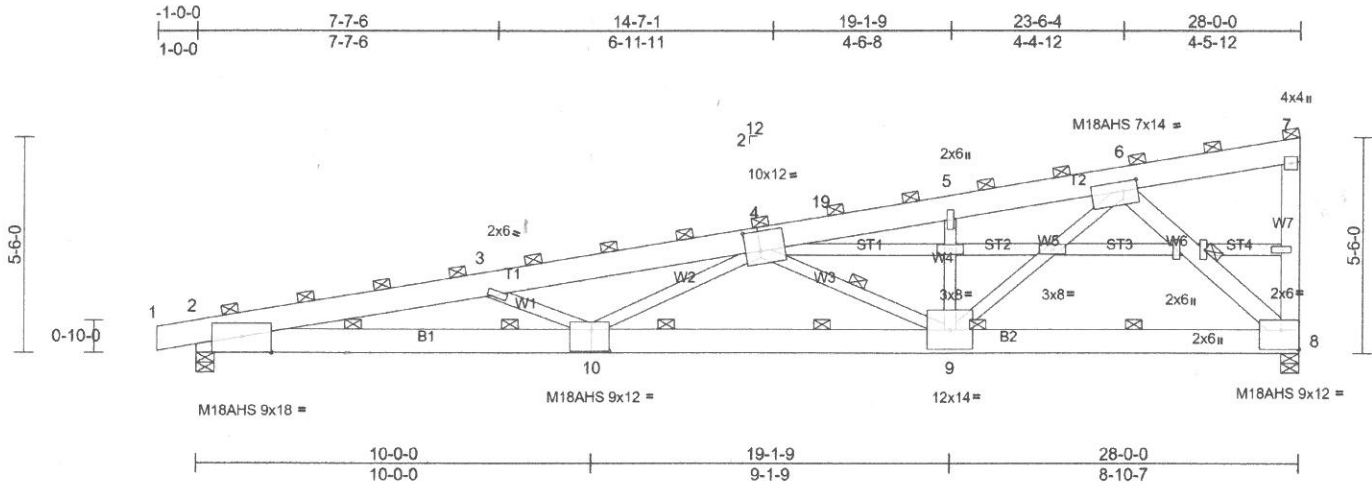
Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
QTREC0850583	PM1SE	MONO	2	1	

Midwest Manufacturing, Eau Claire, WI

Run: 8.72 S Sep 6 2023 Print: 8.720 S Sep 6 2023 MiTek Industries, Inc. Tue May 28 08:28:32

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Scale = 1:52.2

Plate Offsets (X, Y): [2:0-9-0,Edge], [4:0-4-8,0-6-0], [6:0-4-4,0-2-12], [8:Edge,0-6-0], [10:0-5-8,0-6-12]

Loading	(psf)	Spacing	9-0-0	CSI	DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	1.00	Vert(LL)	-0.58	9-10	>576	240	M18AHS	186/179
Snow (Ps/Pg)	18.1/30.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.96	9-10	>347	180	MT20	197/144
TCDL	4.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.16	8	n/a	n/a		
BCLL	0.0	Code	IBC2015/TPI2014	Matrix-MS								
BCDL	10.0											Weight: 222 lb FT = 15%

**LUMBER**

TOP CHORD 2x8 SPF No.2 \*Except\* T1:2x8 SP 2400F 2.0E  
 BOT CHORD 2x8 SP 2400F 2.0E  
 WEBS 2x6 SPF No.2 \*Except\* W4,W1:2x4 SPF Stud, W5:2x4 SPF 1650F  
 1.5E, W2,W3:2x4 SPF No.2  
 OTHERS 2x4 SPF Stud

**BRACING**

TOP CHORD 2-0-0 oc purlins (2-0-1 max.), except end verticals.  
 BOT CHORD 4-6-0 oc bracing.  
 WEBS 1 Row at midpt 6-8, 4-9

**REACTIONS**

(lb/size) 2=4220/0-5-8, (min. 0-3-12), 8=4013/0-5-8, (min. 0-4-4)  
 Max Horiz 2=754 (LC 11)  
 Max Uplift 2=-1905 (LC 8), 8=-1782 (LC 12)  
 Max Grav 2=4521 (LC 19), 8=5125 (LC 19)

**FORCES**

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-15638/6193, 3-4=-14489/5371, 4-19=-8929/3116, 5-19=-8808/3132, 5-6=-8875/3231, 6-7=-325/174, 7-8=-524/216  
 BOT CHORD 2-10=-6314/15309, 9-10=-4746/12278, 8-9=-1459/4426  
 WEBS 5-9=-1167/506, 6-8=-6092/2270, 6-9=-2087/5858, 3-10=-1517/1067, 4-10=-731/2835, 4-9=-4174/2003

**NOTES**

- 1) Wind: ASCE 7-10; Vult=105mph (3-second gust) Vasd=83mph; TCDL=2.4psf; BCDL=0.6psf; h=25ft; Cat. I; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) TCLL: ASCE 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (ground snow); Ps=18.1 psf (roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category I; Exp C; Fully Exp.; Ct=1.20; Unobstructed slippery surface
- 4) Roof design snow load has been reduced to account for slope.
- 5) Unbalanced snow loads have been considered for this design.
- 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 18.1 psf on overhangs non-concurrent with other live loads.
- 7) Dead loads shown include weight of truss. Top chord dead load of 5.0 psf (or less) is not adequate for a shingle roof. Architect to verify adequacy of top chord dead load.
- 8) All plates are MT20 plates unless otherwise indicated.
- 9) Horizontal gable studs spaced at 2-0-0 oc.
- 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1905 lb uplift at joint 2 and 1782 lb uplift at joint 8.

**LOAD CASE(S)** Standard