

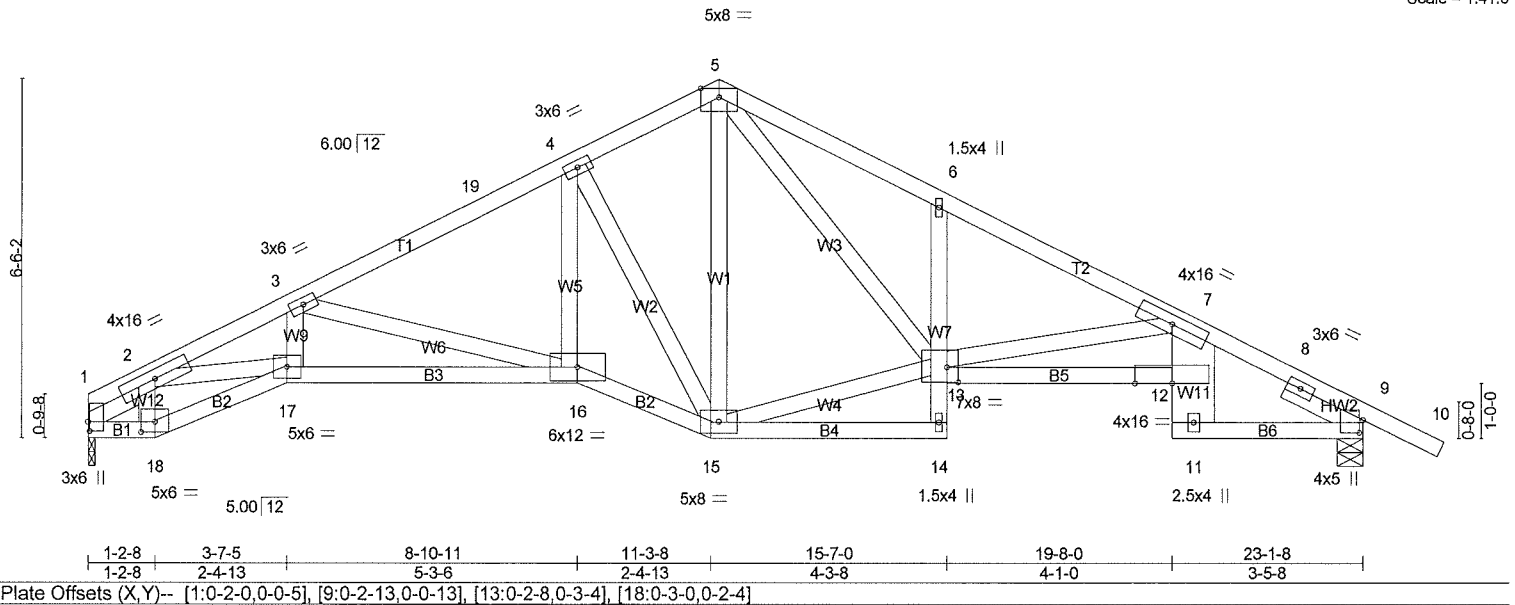
Job 1119R	Truss S12	Truss Type SPECIAL	Qty 1	Ply 1	Job Reference (optional)
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TRUSS SYSTEMS INC., BISMARCK, ND 58504

7.800 s Oct 3 2014 MiTek Industries, Inc. Mon Mar 23 09:09:49 2015 Page 1
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Scale = 1:41.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 24.3 (Ground Snow=35.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.34 BC 0.52 WB 0.77 (Matrix)	in (loc) l/defl L/d Vert(LL) -0.13 13 >999 360 Vert(TL) -0.31 16-17 >887 240 Horz(TL) 0.22 9 n/a n/a	MT20	197/144
TCDL 10.0	Rep Stress Incr YES				
BCLL 0.0	Code IRC2009/TPI2007				
BCDL 10.0					Weight: 116 lb FT = 12%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 4-3-2 oc purlins.
BOT CHORD 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud *Except*	
W11: 2x10 DF 1950F 1.7E	
SLIDER Left 2x4 SPF Stud 1-1-4, Right 2x4 SPF Stud 1-6-6	

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

REACTIONS. (lb/size) 1=1020/Mechanical, 9=1120/0-5-8 (min. 0-1-12)
Max Horz 1=-98(LC 8)
Max Uplift 1=-156(LC 7), 9=-226(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1453/223, 2-3=-2768/458, 3-19=-1703/260, 4-19=-1597/274, 4-5=-1136/248,
5-6=-1954/394, 6-7=-1916/276, 7-8=-1627/261, 8-9=-1672/245
BOT CHORD 1-18=-208/1042, 17-18=-212/1076, 16-17=-410/2395, 15-16=-175/1628, 12-13=-316/2915,
9-11=-149/1376
WEBS 6-13=-429/201, 2-18=-358/91, 2-17=-218/1455, 3-17=-24/473, 3-16=-967/265,
4-16=-86/950, 4-15=-1201/237, 5-15=-96/347, 13-15=-44/928, 5-13=-236/1196,
7-13=-1258/228

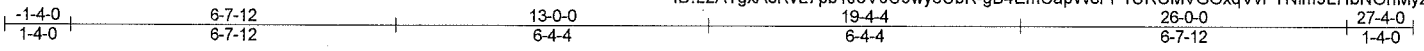
- NOTES-**
- 1) Wind: ASCE 7-05; 90mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 35.0 psf (ground snow); Pf=24.3 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 24.3 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 156 lb uplift at joint 1 and 226 lb uplift at joint 9.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1119R	S03	SCISSOR	5	1	

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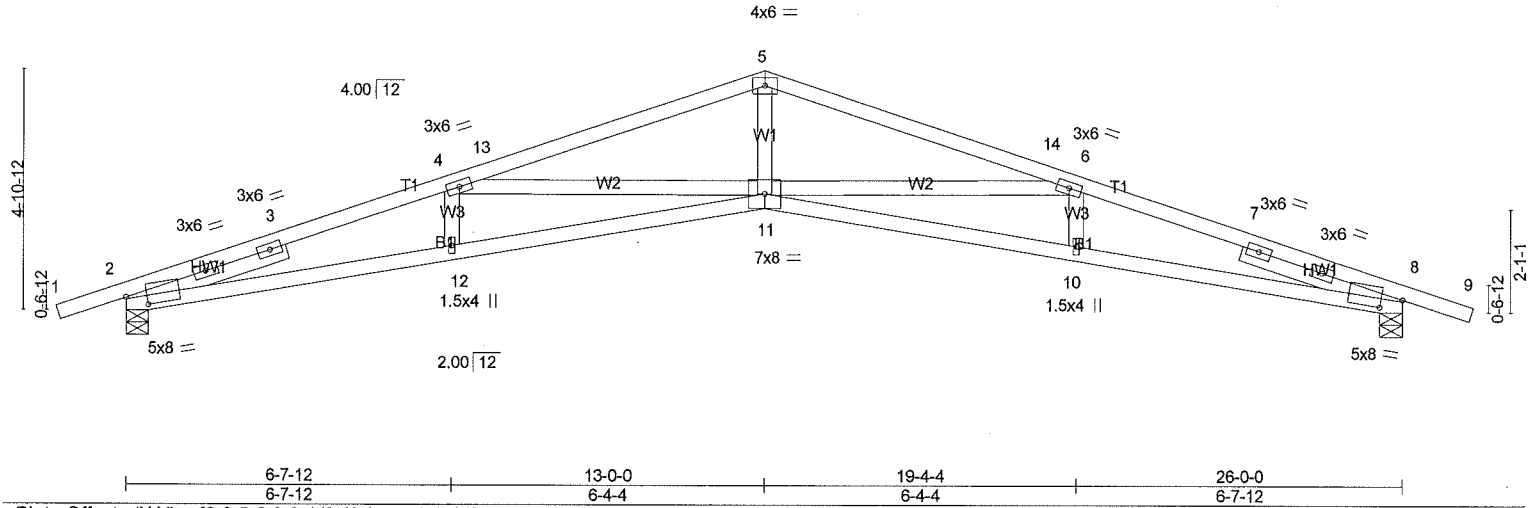


Plate Offsets (X,Y)-- [2:0-5-2,0-2-11], [8:0-5-2,0-2-11]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 24.3 (Ground Snow=35.0)	2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2009/TPI2007	TC 0.69 BC 0.74 WB 0.84 (Matrix)	in (loc) /defl L/d Vert(LL) -0.37 11-12 >839 360 Vert(TL) -0.89 11-12 >351 240 Horz(TL) 0.46 8 n/a n/a	MT20	197/144
TCDL 10.0				Weight: 92 lb	FT = 12%
BCLL 0.0					
BCDL 10.0					

LUMBER-
 TOP CHORD 2x4 SPF 2400F 2.0E
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 SPF Stud
 SLIDER Left 2x4 SPF Stud 3-5-4, Right 2x4 SPF Stud 3-5-4

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-4-12 oc bracing.

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

REACTIONS. (lb/size) 2=1244/0-5-8 (min. 0-1-15), 8=1244/0-5-8 (min. 0-1-15)
 Max Horz 2=-66(LC 6)
 Max Uplift 2=-250(LC 7), 8=-250(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-4162/601, 3-4=-4079/619, 4-13=-3247/386, 5-13=-3204/408, 5-14=-3204/420,
 6-14=-3247/398, 6-7=-4079/572, 7-8=-4162/555
 BOT CHORD 2-12=-577/3864, 11-12=-580/3871, 10-11=-471/3871, 8-10=-469/3864
 WEBS 5-11=-110/1514, 6-11=-990/299, 6-10=0/257, 4-11=-990/287, 4-12=0/257

- NOTES-**
- 1) Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 35.0 psf (ground snow); Pf=24.3 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 24.3 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 250 lb uplift at joint 2 and 250 lb uplift at joint 8.
 - 8) This truss is designed in accordance with the 2009 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.

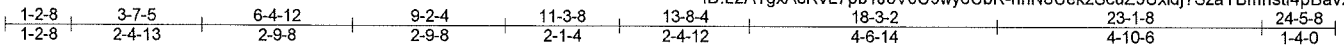
LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Job Reference (optional)
1119R	H03	SPECIAL	1	1	

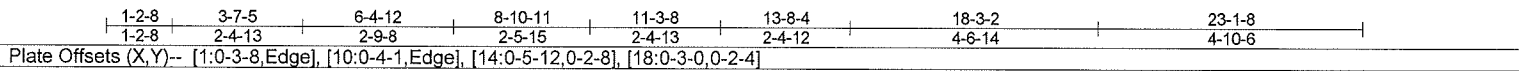
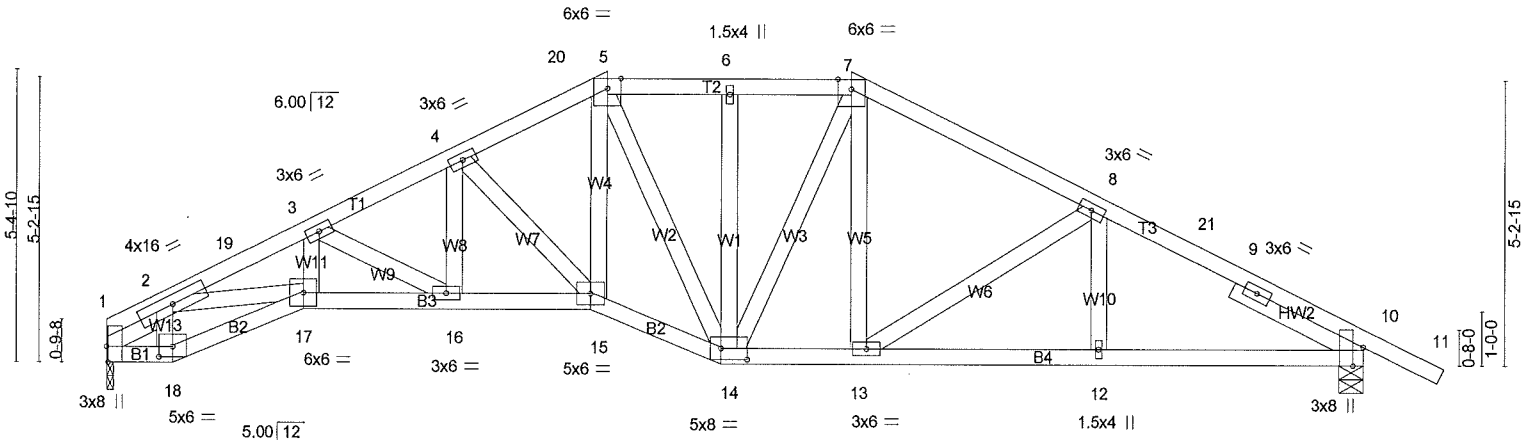
TRUSS SYSTEMS INC., BISMARCK, ND 58504

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Scale = 1:42.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 24.3 (Ground Snow=35.0)	2-0-0	TC 0.39	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.14 15-16 >999 360		
BCLL 0.0	Lumber DOL 1.15	WB 0.76	Vert(TL) -0.25 15-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	(Matrix)	Horz(TL) 0.15 10 n/a n/a		
	Code IRC2009/TPI2007			Weight: 112 lb	FT = 12%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E	TOP CHORD Structural wood sheathing directly applied or 3-6-15 oc purlins, except 2-0-0 oc purlins (5-9-8 max.); 5-7.
BOT CHORD 2x4 SPF 1650F 1.5E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF Stud	
SLIDER Left 2x4 SPF Stud 1-1-4, Right 2x4 SPF Stud 2-7-15	

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

REACTIONS. (lb/size) 1=1020/Mechanical, 10=1122/0-5-8 (min. 0-2-7)
 Max Horz 1=-83(LC 8)
 Max Uplift 1=-144(LC 7), 10=-213(LC 8)
 Max Grav 1=1390(LC 17), 10=1567(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2024/214, 2-19=-3617/383, 3-19=-3533/391, 3-4=-2614/290, 4-20=-2012/237,
 5-20=-1904/244, 5-6=-1447/210, 6-7=-1446/210, 7-8=-1719/211, 8-21=-2051/229,
 9-21=-2159/217, 9-10=-2306/213
 BOT CHORD 1-18=-196/1468, 17-18=-202/1511, 16-17=-323/3096, 15-16=-185/2303, 14-15=-93/1831,
 13-14=-40/1428, 12-13=-105/1875, 10-12=-105/1875
 WEBS 2-18=-510/97, 2-17=-145/1765, 3-17=-43/594, 3-16=-893/154, 4-16=-39/524,
 4-15=-801/144, 5-15=-103/1239, 5-14=-619/60, 6-14=-335/77, 7-13=-29/350,
 8-13=-517/133

- NOTES-**
- 1) Wind: ASCE 7-05; 90mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-05; Pg= 35.0 psf (ground snow); Pf=24.3 psf (flat roof snow); Category II; Exp C; Fully Exp.; Ct=1.1, Lu=50-0-0
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 16.0 psf or 1.00 times flat roof load of 24.3 psf on overhangs non-concurrent with other live loads.
 - 5) Provide adequate drainage to prevent water ponding.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) Refer to girder(s) for truss to truss connections.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 144 lb uplift at joint 1 and 213 lb uplift at joint 10.
 - 9) This truss is designed in accordance with the 2009 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard