

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Re: HT145 Lot 145 HT

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Pages or sheets covered by this seal: I48989396 thru I48989480

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193



November 30,2021

Sevier, Scott

,Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	Lot 145 HT		
				'			148989396
HT145	A3	Roof Special	1		Job Reference (optio	nal)	
Wheeler Lumber, V	Vaverly, KS - 66871,			8.430 s Aug 1	6 2021 MiTek Industr	ries, Inc. Mon Nov 29 12:02:0	
0-10-8	2-0-0	7-0-0	ID:SeH2eHnJU9RS	12-0-0	9y3vvgO-dO1nQR55y	/WBr8qK12f7V2Pov85I?Tzex 14-0-0 , 14-1	
0-10-8	2-0-0	5-0-0		5-0-0		14-0-0 14-1 2-0-0 0-10	0-8
			4x8 =				Scale = 1:28.5
Ī			4				
	6.00 12						
	0.00 1.2						
84							
4-3-8							
	3					5	
	<u> </u>					6	
1 2	12		11		1	0 3x10 =	7 0
88	2x4		2x4			212	7 8-6-0
	3x10		2.7. 11				√ °
	13					9	
1	4 2x4					2x4 8	
3x10	II					3x10	
	2-0-0	7-0-0		12-0-0		14-0-0	
	2-0-0	5-0-0		5-0-0		2-0-0	
Plate Offsets (X,Y)	3:0-8-12,0-0-3], [5:0-8-12,0-0-	3], [8:0-3-8,Edge], [14:0-3-8,Edge]					
LOADING (psf)	SPACING- 2-0-		DEFL.		I/defl L/d	PLATES GR	
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.1 Lumber DOL 1.1				>999 360 >601 240	MT20 197	/144
BCLL 10.0 *	Rep Stress Incr YE			27 10-11 : 33 8	>601 240 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014				>999 240	Weight: 43 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except* 3-5: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

2-14,6-8: 2x4 SPF No.2

REACTIONS. (size) 14=0-3-8, 8=0-3-8

Max Horz 14=72(LC 7)

Max Uplift 14=-99(LC 8), 8=-99(LC 9) Max Grav 14=688(LC 1), 8=688(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

 $2 - 3 = -280/85, \ 3 - 4 = -1004/97, \ 4 - 5 = -1004/121, \ 5 - 6 = -280/55, \ 2 - 14 = -717/128, \ 6 - 8 = -717/118$ TOP CHORD

BOT CHORD 3-12=-30/852, 11-12=-30/852, 10-11=-30/852, 5-10=-30/852**WEBS**

4-11=0/381

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 14 and 99 lb uplift at joint 8.
- 6) 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

except end verticals.

10-0-0 oc bracing: 10-11

November 30,2021







Job Truss Truss Type Qty Ply Lot 145 HT 148989397 HT145 2 A4 Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:02 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-5ab4en6jjpKim_vEcMekbdL0BUbECPI40N0JnhyEKRZ 11-0-0 10-1-8 2-0-0 0-10-8 Scale = 1:26.7 4x8 = 6.00 12 3x4 / 1-8-12 8 4x5 9 Ш 3x4 =2x4 || 7 2x4 || 3-1-8 8-1-8 10-1-8 2-0-0 Plate Offsets (X,Y)-- [3:0-3-3,0-1-9]

LOADIN	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	1.15	TC	0.66	Vert(LL)	-0.15	8-9	>819	360	MT20	197/144
TCDL	10.0	Lumber DOL 1	1.15	BC	0.80	Vert(CT)	-0.28	8-9	>432	240		
BCLL	0.0 *	Rep Stress Incr Y	YES	WB	0.16	Horz(CT)	0.16	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20)14	Matri	x-S	Wind(LL)	0.12	8-9	>970	240	Weight: 33 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No 2 **BOT CHORD** 2x4 SPF No 2

2x3 SPF No 2 WFBS

REACTIONS. (size) 10=0-3-8, 6=0-3-8

Max Horz 10=-113(LC 4)

Max Uplift 10=-44(LC 9), 6=-92(LC 9) Max Grav 10=443(LC 1), 6=518(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-477/89, 2-3=-519/58, 1-10=-468/63, 4-6=-527/109

BOT CHORD 8-9=0/411, 3-8=0/411

WFBS 1-9=-56/462

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 10 and 92 lb uplift at joint 6.
- 6) 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.



Structural wood sheathing directly applied or 5-6-9 oc purlins,

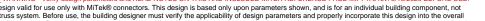
Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

except end verticals.

10-0-0 oc bracing: 8-9

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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989398 HT145 Hip Girder A5 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:03 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-Zn8Sr77LU7SZN8TQ939z8qu90uv1xsNEF1mtK7yEKRY -0-10-8 0-10-8 5-0-0 3-0-0 12-0-0 14-0-0 14-10-8 3-0-0 2-0-0 0-10-8

Scale = 1:26.1

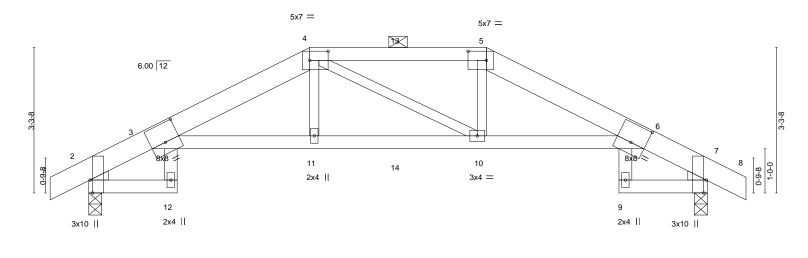


Plate Offsets (X,Y)	ate Offsets (X,Y) [2:0-3-8,Edge], [3:0-4-0,0-5-0], [4:0-5-0,0-2-8], [5:0-5-0,0-2-8], [6:0-4-0,0-5-0], [7:0-3-8,Edge]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP						
TCLL 25.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.14 11 >999 360	MT20 197/144						
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.26 10-11 >635 240							
BCLL 0.0 *	Rep Stress Incr NO	WB 0.17	Horz(CT) 0.35 7 n/a n/a							
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.12 12 >999 240	Weight: 54 lb FT = 10%						

BRACING-

TOP CHORD

BOT CHORD

except

9-0-0

4-0-0

12-0-0

3-0-0

2-0-0 oc purlins (3-7-7 max.): 4-5.

Rigid ceiling directly applied or 6-0-0 oc bracing.

14-0-0

2-0-0

Structural wood sheathing directly applied or 3-11-6 oc purlins,

LUMBER-

2x6 SPF 1650F 1.4E *Except*

2-0-0

2-0-0

TOP CHORD 4-5: 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

3-12,6-9: 2x4 SPF No.2

WEDGE

Left: 2x3 SPF No.2, Right: 2x3 SPF No.2

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=53(LC 8)

Max Uplift 2=-244(LC 8), 7=-244(LC 9) Max Grav 2=1172(LC 1), 7=1172(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD

 $2\text{-}3\text{--}724/180,\ 3\text{-}4\text{--}2437/521,\ 4\text{-}5\text{--}2270/494,\ 5\text{-}6\text{--}2439/502,\ 6\text{-}7\text{--}724/171}$ **BOT CHORD** 3-11=-453/2243, 10-11=-455/2267, 6-10=-414/2245

WEBS 4-11=-36/463, 5-10=-50/492

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

5-0-0

3-0-0

- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint 2 and 244 lb uplift at joint 7.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 82 lb up at 5-0-0, and 102 lb down and 82 lb up at 7-0-0, and 96 lb down and 82 lb up at 9-0-0 on top chord, and 338 lb down and 108 lb up at 5-0-0, and 53 lb down at 7-0-0, and 338 lb down and 108 lb up at 8-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989398
HT145	A5	Hip Girder	1	1	
					Job Reference (optional)

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:04 2021 Page 2 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-2ziq3T8_ERaQ?l2cjngCg1QKlIFGgJdNThVQsZyEKRX

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-4=-70, 4-5=-70, 5-8=-70, 2-12=-20, 3-6=-20, 7-9=-20

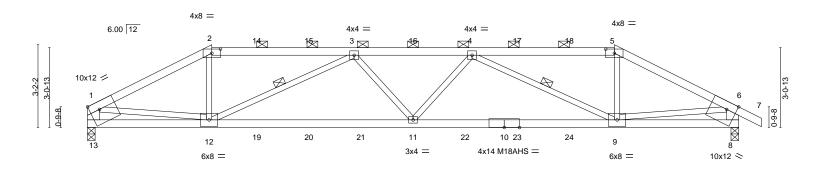
Concentrated Loads (lb)

Vert: 4=-73(F) 5=-73(F) 11=-338(F) 10=-338(F) 13=-73(F) 14=-52(F)



Job Truss Truss Type Qty Ply Lot 145 HT 148989399 HT145 В1 Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:05 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-W9GCGp8c?kiGdSdoHUBRDFzYiifVPciWiLF_O0yEKRW 10-2-13 14-9-3 20-2-12 25-0-0 25-10-8 0-10-8 4-9-4 5-5-9 4-6-5 5-5-9 4-9-4

Scale = 1:44.2



		4-9-4		12-0-0	1	20-2-	12	1	25-0-0	<u>'</u>
		4-9-4		7-8-12		7-8-1	2		4-9-4	1
Plate Offsets	(X,Y)	[1:Edge,0-3-8], [2:0-4-0),0-1-15], [5:0-4-	0,0-1-15], [8:0-4-6,Edge]						
LOADING (p	osf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	P	LATES	GRIP
TCLL 2	5.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.21 11	>999 360	N	/IT20	197/144
TCDL 1	0.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.43 11-12	>688 240	N	/18AHS	142/136
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.82	Horz(CT)	0.09 8	n/a n/a			
BCDL 1	0.0	Code IRC2018/	TPI2014	Matrix-S	Wind(LL)	0.19 11	>999 240	V	Veight: 87 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

20-2-12

1 Row at midpt

LUMBER-

2x4 SPF No.2 *Except*

1-0-1

TOP CHORD 2-5: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Except* **WEBS**

1-13,6-8: 2x6 SPF No.2

REACTIONS. (size) 13=0-3-8, 8=0-3-8

Max Horz 13=-62(LC 4)

Max Uplift 13=-394(LC 5), 8=-417(LC 9) Max Grav 13=1850(LC 1), 8=1931(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-3086/703, 2-3=-2678/647, 3-4=-4282/991, 4-5=-2664/646, 5-6=-3081/704,

1-13=-1806/398, 6-8=-1888/423

BOT CHORD 12-13=-124/341, 11-12=-1034/4153, 9-11=-1024/4152, 8-9=-139/412 **WEBS**

 $2-12 = -104/895, \ 3-12 = -1702/502, \ 3-11 = 0/349, \ 4-11 = 0/349, \ 4-9 = -1710/502, \ 5-9 = -105/906, \ 3-12 = -104/895,$

1-12=-541/2388, 6-9=-541/2314

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

12-6-0

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 394 lb uplift at joint 13 and 417 lb uplift at joint 8.
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 99 lb down and 92 lb up at 4-9-4, 100 lb down and 92 lb up at 6-6-0, 100 lb down and 92 lb up at 8-6-0, 100 lb down and 92 lb up at 10-6-0, 100 lb down and 92 lb up at 12-6-0, 100 lb down and 92 lb up at 14-6-0, 100 lb down and 92 lb up at 16-6-0, and 100 lb down and 92 lb up at 18-6-0, and 99 lb down and 92 lb up at 20-2-12 on top chord, and 287 lb down and 87 lb up at 4-9-4, 48 lb down at 6-6-0, 48 lb down at 8-6-0, 48 lb down at 10-6-0, 48 lb down at 12-6-0, 48 lb down at 14-6-0, 48 lb down at 16-6-0, and 48 lb down at 18-6-0 , and 287 lb down and 87 lb up at 20-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



25-0-0

Structural wood sheathing directly applied or 2-10-12 oc purlins,

3-12, 4-9

except end verticals, and 2-0-0 oc purlins (3-6-6 max.): 2-5.

Rigid ceiling directly applied or 7-8-2 oc bracing.

November 30,2021

CONTRUGAR RINB 396-127 design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE



Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989399
HT145	B1	Hip Girder	1	1	
					Job Reference (optional)

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:05 2021 Page 2 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-W9GCGp8c?kiGdSdoHUBRDFzYiifVPciWiLF_O0yEKRW

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

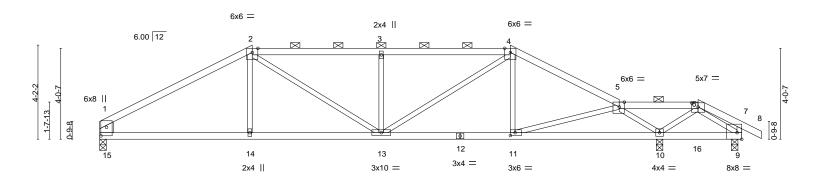
Vert: 1-2=-70, 2-5=-70, 5-6=-70, 6-7=-70, 8-13=-20

Concentrated Loads (lb)

Vert: 2=-76(F) 5=-76(F) 12=-287(F) 3=-76(F) 11=-34(F) 4=-76(F) 9=-287(F) 14=-76(F) 15=-76(F) 15=-76(F) 17=-76(F) 18=-76(F) 19=-34(F) 20=-34(F) 21=-34(F)

Job Truss Truss Type Qty Ply Lot 145 HT 148989400 HT145 B2 Roof Special Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:07 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-SYOzhVAsXMy_slnBOvDvlg2rMVK2tcnpAfk4TuyEKRU

Scale = 1:51.1



		6-9-4	12-6-0	18-2-12	23-0-12	24-10-4 26-6-12 28-4-028 ₁ 6-0
		6-9-4	5-8-12	5-8-12	4-10-0	1-9-8 1-8-8 1-9-4 0-2-0
Plate Offs	sets (X,Y)	[1:0-4-9,0-3-0], [5:0-2-11,Edge]	, [6:0-3-8,0-2-3], [9:Edge,0-3-8],	[11:0-2-8,0-1-8]		
LOADING	G (psf)	SPACING- 2-0-	O CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.1	5 TC 0.82	Vert(LL) -0.16 13-14	>999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.1	5 BC 0.76	Vert(CT) -0.30 13-14	>967 240	
BCLL	0.0 *	Rep Stress Incr No	O WB 0.40	Horz(CT) 0.03 10) n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.12 13-14	>999 240	Weight: 98 lb FT = 10%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD

2x4 SPF No.2 *Except* **BOT CHORD**

12-15: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

1-15: 2x8 SP DSS

REACTIONS. (size) 15=0-3-8, 10=0-3-8, 9=0-3-8

Max Horz 15=-75(LC 4)

Max Uplift 15=-87(LC 29), 10=-182(LC 4), 9=-385(LC 21) Max Grav 15=1018(LC 1), 10=1940(LC 1), 9=87(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $1\hbox{-}2\hbox{--}1495/175, 2\hbox{-}3\hbox{--}1612/251, 3\hbox{-}4\hbox{--}1612/251, 4\hbox{-}5\hbox{--}1221/146, 5\hbox{-}6\hbox{--}163/1504,}$

1-15=-881/131

BOT CHORD 14-15=-135/1233, 13-14=-138/1233, 11-13=-81/1032, 9-10=-678/141

WEBS 2-13=-141/556, 3-13=-500/198, 4-13=-153/757, 5-11=-83/1112, 5-10=-1859/219,

6-10=-1051/182, 6-9=-139/709

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 87 lb uplift at joint 15, 182 lb uplift at joint 10 and 385 lb uplift at joint 9. 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 102 lb up at 26-6-12 on top chord, and 11 lb down and 4 lb up at 26-6-0 on bottom chord. The design/selection of such connection device(s) is
- the responsibility of others. 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 3-8-8 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals, and 2-0-0 oc purlins (4-1-14 max.): 2-4, 5-6.

November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989400
HT145	B2	Roof Special Girder	1	1	
					Job Reference (optional)

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:07 2021 Page 2 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-SYOzhVAsXMy_slnBOvDvlg2rMVK2tcnpAfk4TuyEKRU

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 9-15=-20 Concentrated Loads (lb) Vert: 16=2(F)

Job Truss Truss Type Qty Ply Lot 145 HT 148989401 HT145 ВЗ Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:08 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-wkyLurBUIf4rUvMNydl8qtb3_vhMcz1zOITe?LyEKRT 16-2-12 21-0-12 24-6-12 28-6-0

4-10-0

4-10-0

6-0-0 oc bracing: 9-10.

1 Row at midpt

3-6-0

3-6-0

Structural wood sheathing directly applied or 4-7-1 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals, and 2-0-0 oc purlins (5-6-11 max.): 3-4, 5-6.

3-4-0

7-5-8

Scale = 1:51.4

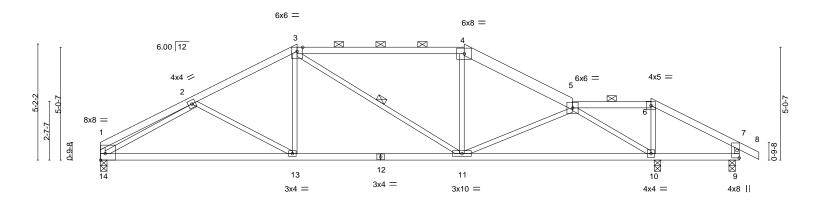


Plate Offsets (Plate Offsets (X,Y) [1:Edge,0-3-8]										
LOADING (ps	f) SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP		
TCLL 25.	0 Plate Grip D0	OL 1.15	TC 0.58	Vert(LL)	-0.14 13-14	>999	360	MT20	197/144		
TCDL 10.	0 Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.30 13-14	>997	240				
BCLL 0.	0 * Rep Stress II	nor YES	WB 0.78	Horz(CT)	0.05 10	n/a	n/a				
BCDL 10.	0 Code IRC20	18/TPI2014	Matrix-S	Wind(LL)	0.04 11-13	>999	240	Weight: 105 lb	FT = 10%		

BRACING-

TOP CHORD

BOT CHORD

WEBS

7-5-8

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

3-4: 2x4 SPF 2100F 1.8E, 4-5: 2x6 SPF No.2

8-9-4

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

REACTIONS. (size) 10=0-3-8, 14=0-3-8, 9=0-3-8

Max Horz 14=-86(LC 4)

Max Uplift 10=-95(LC 9), 14=-112(LC 8), 9=-90(LC 9) Max Grav 10=1495(LC 1), 14=1075(LC 1), 9=69(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-388/19, 2-3=-1504/141, 3-4=-1250/168, 4-5=-1436/144, 6-7=-26/331,

1-14=-282/49

BOT CHORD 13-14=-200/1411, 11-13=-92/1288, 10-11=-153/1159

WEBS 3-13=0/331, 4-11=0/267, 5-11=0/256, 5-10=-1641/176, 6-10=-420/84, 2-14=-1325/203

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 10, 112 lb uplift at joint 14 and 90 lb uplift at joint 9.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989402 HT145 C1 Roof Special Girder 2 Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

-0₁10₁8 2-8-5 5-11-4 0-10-8 2-8-5 3-2-15

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:11 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-KJdTXsDNbaSQLN5ydllrSWDYW7jPpJEP4GilcfyEKRQ 39-8-12 44-6-12 48-0-12 50-4-4 54-0-0 54-10-8 3-5-8 4-10-0 3-6-0 2-3-8 3-7-12 0-10-8

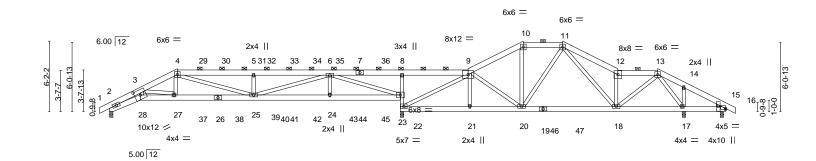
Structural wood sheathing directly applied or 5-8-3 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-9, 10-11, 12-13.

6-0-0 oc bracing: 22-23,15-17.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

Scale = 1:101.0



											54-0-0
	2-8	3-5 5-11-4 12-7-8	1	19-3-12	25-6-0	25-7 ₁ -12 31-5-4	J 36-3	4 39-8-	12 44-6-12	50-4-4	53-10-0 _{II}
	2-8	3-5 3-2-15 6-8-4	ı	6-8-4	6-2-4	0-1 ^{<u> </u>12 5-9-8}	4-10	0 3-5-	8 4-10-0	5-9-8	3-5-12 0-2-0
Plate Offsets	s (X,Y)	[15:0-0-0,0-0-15], [28:0-6	-0,0-5-5]								
LOADING (p	psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	oc) I/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.16	25 >999	360	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.30	25 >999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.08	17 n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matrix	x-S	Wind(LL)	0.13	25 >999	240	Weight: 641 lb	FT = 10%
						` ′				•	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SPF No 2 **BOT CHORD**

2x6 SP 2400F 2.0E *Except* 8-22: 2x4 SPF 2100F 1.8E

2x4 SPF No.2

WEBS

WEDGE

Right: 2x3 SPF No.2

REACTIONS. All bearings 0-3-8.

Max Horz 2=102(LC 29) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 2=-351(LC 8), 22=-492(LC 8),

17=-345(LC 30), 15=-248(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 15 except 2=1979(LC 21),

22=3562(LC 1), 17=1682(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-6587/1220, 3-4=-4915/857, 4-5=-5668/894, 5-6=-5666/892, 6-8=-183/1421,

8-9=-148/1246, 9-10=-993/352, 10-11=-828/325, 11-12=-1122/346, 12-13=-994/261,

13-14=-75/714, 14-15=-172/813

BOT CHORD 2-28=-1131/5720, 27-28=-987/5007, 25-27=-775/4419, 24-25=-478/3482,

23-24=-478/3482, 22-23=-2645/443, 8-23=-727/246, 21-22=-448/893, 20-21=-444/901,

18-20=-124/822. 15-17=-638/183

WEBS 3-28=-345/1801, 3-27=-548/211, 4-27=-107/991, 4-25=-206/1314, 5-25=-890/325,

6-25=-401/2310, 6-24=0/438, 6-23=-5159/734, 9-22=-1953/188, 9-20=-107/427, $11-18=-90/366,\ 12-18=-731/275,\ 13-18=-198/1098,\ 13-17=-1402/275,\ 14-17=-351/155$

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60

5) Provide adequate drainage to prevent water ponding.

6) All plates are 4x8 MT20 unless otherwise indicated.

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

OF MISS SCOTT M. SEVIER MUMBER OFFESSIONAL STATES PE-2001018807

November 30,2021

Continued on page 2 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 145 HT	
HT145	C1	Roof Special Girder	1	2	Job Reference (optional)	148989402

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:11 2021 Page 2 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-KJdTXsDNbaSQLN5ydllrSWDYW7jPpJEP4GilcfyEKRQ

NOTES-

- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 351 lb uplift at joint 2, 492 lb uplift at joint 22, 345 lb uplift at joint 17 and 248 lb uplift at joint 15.
- 11) 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.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 153 lb down and 69 lb up at 5-11-4, 153 lb down and 69 lb up at 8-0-0, 153 lb down and 69 lb up at 10-0-0, 165 lb down and 71 lb up at 12-0-0, 165 lb down and 71 lb up at 14-0-0, 165 lb down and 71 lb up at 16-0-0, 165 lb down and 71 lb u 71 lb up at 18-0-0, 165 lb down and 71 lb up at 20-0-0, and 165 lb down and 71 lb up at 22-0-0, and 165 lb down and 71 lb up at 24-0-0 on top chord, and 401 lb down and 126 lb up at 5-11-4, 68 lb down at 8-0-0, 68 lb down at 10-0-0, 70 lb down at 12-0-0, 70 lb down at 14-0-0, 70 lb down at 16-0-0, 70 lb down at 18-0-0, 70 lb down at 18-0-0 at 20-0-0, and 70 lb down at 22-0-0, and 70 lb down at 24-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4--70, 4-9--70, 9-10--70, 10-11--70, 11-12--70, 12-13--70, 13-16--70, 2-28--20, 23-28--20, 15-22--20

Concentrated Loads (lb)

Vert: 4=-103(F) 7=-115(F) 27=-401(F) 29=-103(F) 30=-103(F) 31=-115(F) 32=-115(F) 33=-115(F) 34=-115(F) 35=-115(F) 36=-115(F) 37=-43(F) 38=-43(F) 39=-49(F) 40=-49(F) 41=-49(F) 42=-49(F) 43=-49(F) 44=-49(F) 45=-49(F)

Job Truss Truss Type Qty Ply Lot 145 HT 148989403 HT145 C2 Roof Special Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:14 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-luJc9uFFuVq?CqpXJtsY48r3rKg70gernEwyD_yEKRN 46-0-12 3-6-0

Scale = 1:99.2

54-0-0

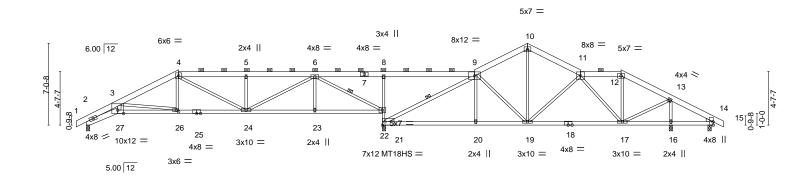
Structural wood sheathing directly applied or 3-4-8 oc purlins, except

6-22, 9-21

2-0-0 oc purlins (4-10-10 max.): 4-9, 11-12.

1 Row at midpt

Rigid ceiling directly applied or 2-8-1 oc bracing.



2-8-5 2-8-5	7-11-4 13-9-1 5-2-15 5-9-13		25-7-12 33-5-4 0-1-12 7-9-8	38-0-0 46-0-12 4-6-12 8-0-12	50-4-4 53-10-0 4 4-3-8 3-5-12 0-2-0
Plate Offsets (X,Y)	[14:Edge,0-0-5], [26:0-2-8,0-1-8]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.74 BC 0.86 WB 0.77 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) I/defl L/d -0.15 26-27 >999 360 -0.28 26-27 >999 240 0.11 16 n/a n/a 0.13 26-27 >999 240	PLATES GRIP MT20 197/144 MT18HS 197/144 Weight: 244 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-27: 2x6 SP DSS, 8-21: 2x3 SPF No.2

18-21,22-25: 2x4 SPF 2100F 1.8E

7-11-4 5-2-15

WEBS 2x3 SPF No.2 *Except*

3-27,9-21: 2x4 SPF No.2

WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 0-3-8.

Max Horz 2=118(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14 except 2=-216(LC 8), 21=-392(LC

8), 16=-219(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 14 except 2=1163(LC 21),

21=2343(LC 1), 16=1481(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3791/782, 3-4=-2044/397, 4-5=-2063/433, 5-6=-2061/431, 6-8=-24/314,

8-9=-12/290, 9-10=-1069/239, 10-11=-1063/217, 11-12=-708/183, 12-13=-867/171,

BOT CHORD 2-27=-771/3288, 26-27=-672/2814, 24-26=-345/1811, 23-24=-210/1308, 22-23=-210/1308.

21-22=-1532/362, 8-22=-603/229, 20-21=-69/1126, 19-20=-68/1129, 17-19=-82/1123,

16-17=-300/60, 14-16=-300/60

WEBS $3-27=-234/1282,\ 3-26=-1007/331,\ 4-26=0/340,\ 4-24=-178/288,\ 5-24=-443/188,$

6-24=-188/868, 6-22=-1778/332, 9-21=-1551/159, 9-20=0/269, 9-19=-363/102,

10-19=-101/574, 11-19=-369/172, 11-17=-646/119, 13-17=-74/1143, 13-16=-1405/248

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb)

MiTek

ROLL STONAL

OF MISS

SCOTT M.

SEVIER

NITME

PE-2001018807

November 30,2021

Continued on page 2
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989403
HT145	C2	Roof Special	1	1	
					Job Reference (optional)

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:14 2021 Page 2 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-luJc9uFFuVq?CqpXJtsY48r3rKg70gernEwyD_yEKRN

NOTES-

- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job Truss Truss Type Qty Ply Lot 145 HT 148989404 HT145 C3 Roof Special Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

-0-10-8 2-8-5

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:16 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-hHRMaaHVQ74jR8zwQlu09ZwPp8LVUan8EYP3HtyEKRL 38-0-0 40-6-12 44-0-12 2-6-12 2-6-12 3-6-0

Scale = 1:99.2

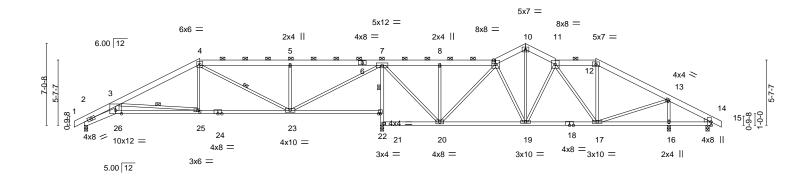


Plate Offsets (X,Y)	9-11-4 7-2-15 [14:Edge,0-0-5], [25:0-	17-8-10 7-9-6		-6-0 25-7-12 9-6 0-1 12	30-7-6 4-11-10	38-0-0 7-4-10	+	44-0-12 6-0-12		54-0-0 53-10-0 3-5-12 0-2-0
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0 TCDL 10.0 BCLL 0.0 *	Plate Grip DOL Lumber DOL Rep Stress Incr	1.15 1.15 YES	TC 0.1 BC 0.1 WB 0.1	93	Vert(LL) Vert(CT) Horz(CT)	-0.19 25-26 -0.38 25-26 0.12 16	>999 >806 n/a	360 240 n/a	MT20	197/144
BCDL 10.0	Code IRC2018/	TPI2014	Matrix-S		Wind(LL)	0.17 25-26	>999	240	Weight: 250 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-26: 2x6 SP 2400F 2.0E 2x3 SPF No.2 *Except*

WEBS

3-26: 2x4 SPF No.2 WEDGE

Right: 2x4 SPF No.2

REACTIONS. All bearings 0-3-8.

Max Horz 2=-118(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 14 except 2=-220(LC 8), 16=-223(LC

9), 21=-386(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 14 except 2=1139(LC 21),

16=1337(LC 1), 21=2414(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-3859/852, 3-4=-1744/356, 4-5=-1233/324, 5-7=-1231/323, 7-8=-511/241, 8-9=-513/242, 9-10=-993/271, 10-11=-976/257, 11-12=-827/242, 12-13=-1030/220

BOT CHORD 2-26=-841/3370, 25-26=-740/2881, 23-25=-280/1507, 22-23=-395/70, 21-22=-2394/411,

7-22=-2309/451, 20-21=-348/57, 19-20=-60/945, 17-19=-49/1006

WEBS 3-26=-238/1331, 3-25=-1375/464, 4-25=0/415, 4-23=-354/63, 5-23=-556/251,

7-23=-335/1819, 7-20=-117/1250, 9-20=-645/55, 10-19=-170/652, 11-19=-384/157,

11-17=-318/67, 13-17=-62/972, 13-16=-1218/287, 8-20=-276/133

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Bearing at joint(s) 2, 21 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 100 lb uplift at joint(s) 14 except (jt=lb) 2=220, 16=223, 21=386
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 3-5-8 oc purlins, except

Rigid ceiling directly applied or 2-2-0 oc bracing. Except:

7-22

3-25, 4-23

2-0-0 oc purlins (6-0-0 max.): 4-9, 11-12.

1 Row at midpt

1 Row at midpt

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Job Truss Truss Type Qty Ply Lot 145 HT 148989405 HT145 C4 Half Hip Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:17 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-9T?InvI7BQCa3IY6_0PFinTYoXitD0WHTC9cpJyEKRK

26-7-6

33-10-1

41-6-0

7-8-0

Structural wood sheathing directly applied or 2-0-2 oc purlins,

except end verticals, and 2-0-0 oc purlins (2-7-13 max.): 4-9.

8-10

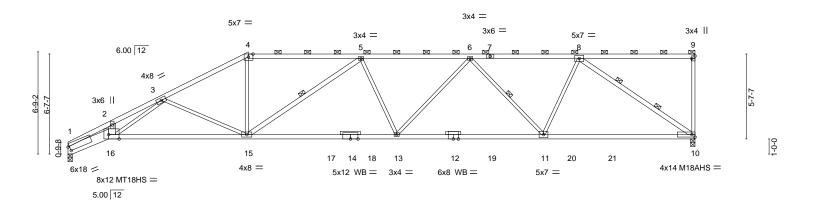
5-15, 6-11

Rigid ceiling directly applied or 9-3-2 oc bracing.

1 Row at midpt

2 Rows at 1/3 pts

Scale = 1:76.3



2-8-5	9-2-15	9-9-13	9-8-10	10-0-5
Plate Offsets (X,Y)	[1:0-1-4,0-3-9], [4:0-3-10,Edge], [9:Edg	e,0-2-8], [16:0-8-4,Edge]		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.89 BC 0.85 WB 0.89	DEFL. in (loc) l/defl L/d Vert(LL) -0.47 13-15 >999 360 Vert(CT) -0.82 13-15 >604 240 Horz(CT) 0.35 10 n/a n/a	PLATES GRIP MT20 197/144 M18AHS 142/136 MT18HS 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.26 15-16 >999 240	Weight: 164 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E *Except*

7-9: 2x4 SPF No.2 **BOT CHORD**

2x4 SPF 2100F 1.8E *Except* 1-16: 2x8 SP DSS

WEBS 2x3 SPF No.2 *Except*

2-16: 2x6 SPF No.2, 5-15,8-10: 2x4 SPF No.2

OTHERS 2x3 SPF No.2

2-8-5

REACTIONS. (size) 1=0-3-8, 10=0-3-8

Max Horz 1=243(LC 5)

Max Uplift 1=-167(LC 5), 10=-339(LC 5) Max Grav 1=1950(LC 2), 10=1983(LC 2)

11-11-4

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

11-11-4

5-7-12

19-4-12

21-9-1

7-5-7

TOP CHORD 1-2=-7417/928, 2-3=-6388/858, 3-4=-3609/477, 4-5=-3149/448, 5-6=-3871/574,

6-8=-2877/423

BOT CHORD 1-16=-1047/6534, 15-16=-706/4002, 13-15=-712/3860, 11-13=-667/3553,

10-11=-469/2358

WEBS 2-16=-127/1330, 3-16=-297/2144, 3-15=-939/311, 4-15=-73/1231, 5-15=-988/296,

6-13=0/471, 6-11=-1023/257, 8-11=-60/1283, 8-10=-2853/517

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=167, 10=339.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job Truss Truss Type Qty Ply Lot 145 HT 148989406 HT145 C5 Hip Job Reference (optional)

6-3-6

Wheeler Lumber, Waverly, KS - 66871,

13-11-4

5-7-8

20-2-10

6-3-6

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:18 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-dfY7?FImxkLQgS7IYjwUE_?jyx0NyRRRhsuAMmyEKRJ 26-6-0 40-0-12

6-9-6

40-2-8

Structural wood sheathing directly applied or 2-9-6 oc purlins,

3-19, 10-11, 9-13

except end verticals, and 2-0-0 oc purlins (2-6-3 max.): 4-9.

Rigid ceiling directly applied or 2-2-0 oc bracing.

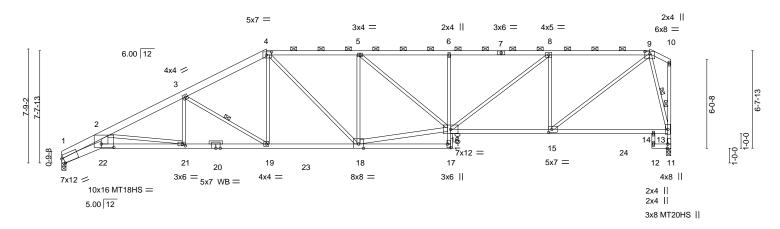
41-6-0

6-9-6

33-3-6

1 Row at midpt

Scale = 1:78.5



26-6-0

BRACING-

TOP CHORD

BOT CHORD

WEBS

2-8-5	5-7-8	5-7-8	6-3-6	6-3-6	6-9-6	6-11-2	1-3-8
Plate Offsets (X,Y)	[1:0-1-7,Edge], [4:0	-4-4,0-2-8], [9:0-4-0,0	0-1-15], [11:0-3-8,Edge]	, [15:0-2-8,0-2-8], [17:E	dge,0-2-8], [21:0-2-8,0-1	I-8], [22:0-10-4,0-2-12]	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl L	/d PLATE	S GRIP

20-2-10

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.35	18-19	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.61	18-19	>815	240	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.43	11	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-S	Wind(LL)	0.24	18	>999	240	Weight: 197 lb	FT = 10%

LUMBER-TOP CHORD 2x4 SPF No.2 *Except*

13-11-4

1-4: 2x6 SP DSS **BOT CHORD** 2x4 SPF No.2 *Except*

2-8-5

1-22: 2x6 SP DSS, 20-22,17-20: 2x4 SPF 2100F 1.8E

6-17: 2x3 SPF No.2 2x3 SPF No.2 *Except* **WEBS**

2-22: 2x6 SPF No.2, 16-18: 2x4 SPF No.2

8-3-12

<u>8-3-12</u>

5-7-8

OTHERS 2x3 SPF No.2

REACTIONS. (size) 1=0-3-8, 11=0-3-8

Max Horz 1=273(LC 5)

Max Uplift 1=-172(LC 8), 11=-297(LC 5) Max Grav 1=1933(LC 2), 11=1968(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $1\hbox{-}2\hbox{--}7050/870, 2\hbox{-}3\hbox{--}4118/455, 3\hbox{-}4\hbox{--}3254/436, 4\hbox{-}5\hbox{--}3195/489, 5\hbox{-}6\hbox{--}3469/563,}$

6-8=-3479/565, 8-9=-2445/381, 11-13=-1934/303

BOT CHORD 1-22=-1025/6171, 21-22=-861/5055, 19-21=-602/3704, 18-19=-500/2844, 6-16=-438/181,

15-16=-470/2444, 14-15=-153/471, 13-14=-153/471

WEBS 2-22=-333/2474, 2-21=-1368/321, 3-21=0/417, 3-19=-1026/268, 4-19=-71/772,

4-18=-198/660, 5-18=-761/265, 16-18=-565/3113, 5-16=-112/451, 8-16=-234/1313, 8-15=-1321/361, 9-15=-406/2524, 9-13=-1850/417

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=172, 11=297.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job Truss Truss Type Qty Ply Lot 145 HT 148989407 HT145 C6 Hip Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

15-11-4

6-4-11

6-10-5

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:19 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-5s6VCbJOi2THIbiV5QRjnCYueLMghuoawWejuCyEKRI 21-2-10 26-6-0 32-3-6 38-0-12 40-2-8 41-6-0 2-1-12 1-3-8 5-3-6 5-9-6

Scale = 1:78.1

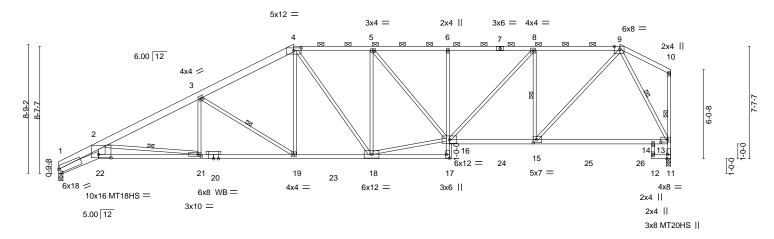


Plate Of	fsets (X,Y)	[1:0-1-5,0-3-4], [4:0-6-0,0)-2-3], [9:0-4- ⁻	10,Edge], [11:	0-3-8,Edge], [13:0-5-8,0-2-0], [15:0-2-8,0-2-8],	, [17:Edge	e,0-2-8], [2	1:0-2-8,0-1-8], [22:0-10-4	l,0-2-12]
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.35 21-22	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.62 21-22	>800	240	MT20HS	148/108
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.47 11	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-S	Wind(LL)	0.22 21-22	>999	240	Weight: 204 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x6 SP DSS

BOT CHORD 2x4 SPF No.2 *Except*

2-8-5 2-8-5

1-22: 2x6 SP DSS, 20-22,13-16: 2x4 SPF 2100F 1.8E

6-10-5

6-17: 2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 2-22: 2x6 SPF No.2 **OTHERS** 2x3 SPF No.2

REACTIONS. (size) 1=0-3-8, 11=0-3-8

Max Horz 1=286(LC 5)

Max Uplift 1=-191(LC 8), 11=-234(LC 5) Max Grav 1=1943(LC 2), 11=2014(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $1\hbox{-}2\hbox{--}7164/883, 2\hbox{-}3\hbox{--}3968/389, 3\hbox{-}4\hbox{--}3034/375, 4\hbox{-}5\hbox{--}2796/401, 5\hbox{-}6\hbox{--}2977/450,}$

6-8=-2983/451, 8-9=-2305/327, 11-13=-1979/241

BOT CHORD 1-22=-968/6280, 21-22=-819/5135, 19-21=-535/3549, 18-19=-435/2633, 6-16=-372/153,

15-16=-405/2303, 14-15=-214/933, 13-14=-214/933

WEBS 2-22=-302/2543, 2-21=-1598/403, 3-21=0/456, 3-19=-1102/297, 4-19=-92/816,

4-18=-171/455, 5-18=-677/233, 16-18=-473/2697, 5-16=-94/365, 8-16=-184/1004,

8-15=-1203/324, 9-15=-284/2052, 9-13=-1943/350

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=191, 11=234.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



40-2-8 41-6-0 2-1-12 1-3-8

2-21, 3-19, 8-15, 9-13, 10-11

Structural wood sheathing directly applied or 2-9-3 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-1-3 max.): 4-9.

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

November 30,2021





Job Truss Truss Type Qty Ply Lot 145 HT 148989408 HT145 C7 Hip Job Reference (optional)

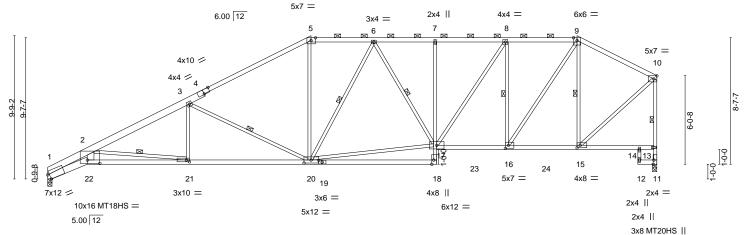
Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:20 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-a2gtQxK0TLb8wlHhf8yyKP52NlkhQLlk9ANGQeyEKRH

Structural wood sheathing directly applied, except end verticals, and

17-11-4 22-2-10 26-6-0 31-3-6 36-0-12 40-2-8 4-1-12 6-10-4 8-4-11 4-3-6 4-9-6

Scale = 1:78.5



2-8-5 9-6-9 17-11-4 31-3-6 2-8-5 6-10-4 8-4-11 8-6-12 4-9-6 4-9-6 4-1-12 1-3-8

Plate Offsets (X,Y)-[1:0-1-7,Edge], [4:0-5-0,Edge], [5:0-3-10,Edge], [11:0-3-8,Edge], [15:0-2-8,0-2-0], [16:0-2-8,0-2-8], [18:0-3-8,Edge], [19:0-2-13,0-1-8], [20:0-5-12,0-2-8], [21:0-2-8,0-1-8], [22:0-10-4,0-2-12]

LOADIN TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.87	DEFL. in (loc) I/defl L/d Vert(LL) -0.35 18-20 >999 360	PLATES GRIP MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.66 18-20 >748 240	MT20HS 148/108
BCLL	0.0 *	Rep Stress Incr YES	WB 0.99	Horz(CT) 0.37 11 n/a n/a	MT18HS 197/144
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.22 21-22 >999 240	Weight: 204 lb FT = 10%

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD TOP CHORD

4-5: 2x4 SPF 2100F 1.8E, 1-4: 2x6 SP DSS 2-0-0 oc purlins (3-6-1 max.): 5-9.

BOT CHORD 2x4 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

1-22: 2x6 SP DSS, 19-22: 2x4 SPF 2100F 1.8E, 7-18: 2x3 SPF No.2 8-7-12 oc bracing: 1-22 2x3 SPF No.2 *Except* 8-7-7 oc bracing: 21-22.

WEBS

2-22: 2x6 SPF No.2 1 Row at midpt 2-21, 3-20, 6-20, 6-17, 9-15, 10-11, 8-16

REACTIONS. (size) 1=0-3-8, 11=0-3-8

Max Horz 1=298(LC 5)

Max Unlift 1=-208(LC 8) 11=-172(LC 5) Max Grav 1=1923(LC 2), 11=1979(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-7090/932, 2-3=-3913/459, 3-5=-2801/302, 5-6=-2372/315, 6-7=-2540/353 7-8=-2546/354, 8-9=-2077/282, 9-10=-1453/187, 11-13=-1952/176, 10-13=-1881/193

BOT CHORD 1-22=-993/6215, 21-22=-837/5084, 20-21=-498/3500, 7-17=-318/127, 16-17=-348/2075,

15-16=-211/1262

WEBS 2-22=-314/2513, 2-21=-1596/354, 3-21=0/472, 3-20=-1251/387, 5-20=-26/896,

6-20=-517/201, 17-20=-424/2337, 8-17=-133/861, 9-16=-251/1524, 9-15=-958/210,

10-15=-202/1668, 8-16=-1103/267

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=208, 11=172.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989409 HT145 C8 Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:22 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-WRoeqdLG?zrs93Q4nZ?QPqAO8YN7uHE1cUsNVXyEKRF

Scale = 1:70.9 5x7 = 6x6 = 2x4 || 6x6 =5x7 = 6 10 4x4 / 5x7 = 6.00 12 10-4-2 10-9-2 3 3x4 / 5x7 🖊 1-9-8 9 17 16 3x4 = 2312 20 22 4x8 = 4x4 = 6x8 = 3x6 = 8x8 = 19 4x5 = 4x4 5.00 12

	2-8-5	3-0-15	2-0-0	5-9-5	6-4-11	5-6-12	5-6-12	0 ¹ -10-0	3-4-12
Plate Offsets (X,Y)	[1:0-2-0,0-	1-8], [3:0-5-0	0,0-2-8], [10:0-2-4,Edge], [11:Edg	ge,0-1-8]				

LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL. in (le	oc) I/def	L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.22 16-	17 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.41 16-	17 >999	240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.86	Horz(CT) 0.15	11 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.13	16 >999	240	Weight: 185 lb FT = 10%

BOT CHORD

WEBS

19-11-4

25-6-0

9-10

31-0-12

Rigid ceiling directly applied or 2-2-0 oc bracing.

Structural wood sheathing directly applied or 3-1-5 oc purlins.

except end verticals, and 2-0-0 oc purlins (3-8-10 max.): 3-4, 6-8,

31_T10-12 35-3-8

5-15, 6-13, 7-13, 8-12, 9-12, 10-11

LUMBER-BRACING-TOP CHORD

7-9-4

13-6-9

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No 2

2x3 SPF No.2 *Except* WFBS

6-13,8-13,10-11: 2x4 SPF No.2

REACTIONS. (size) 19=0-3-8, 11=0-3-8

Max Horz 19=404(LC 5)

Max Uplift 19=-206(LC 8), 11=-246(LC 5)

5-9-4

2-8-5 5-9-4 7-9-4 2-8-5 3-0-15 2-0-0

Max Grav 19=1670(LC 2), 11=1711(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-2478/417, 2-3=-2721/390, 3-4=-2441/373, 4-5=-2629/352, 5-6=-1871/282,

6-7=-1321/216, 7-8=-1323/217, 8-9=-642/137, 9-10=-585/127, 1-19=-1617/287,

10-11=-1685/229

BOT CHORD 18-19=-425/131, 17-18=-587/2204, 16-17=-509/2977, 15-16=-368/2313, 13-15=-299/1589,

12-13=-172/662

WEBS 2-18=-436/40, 2-17=-27/318, 3-17=-115/1057, 4-17=-1095/159, 4-16=-769/232,

5-16=-28/676, 5-15=-1007/285, 6-15=-136/946, 6-13=-556/150, 7-13=-479/190,

8-13=-191/1295, 8-12=-1004/226, 9-12=-372/78, 10-12=-221/1690, 1-18=-357/2200

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Bearing at joint(s) 19 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 100 lb uplift at joint(s) except (jt=lb) 19=206, 11=246. 8) 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. 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

OF MISS SCOTT M. SEVIER PE-2001018807 SIONAL

November 30,2021



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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989410 HT145 C9 Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:23 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-_dM02zMumGzjnD?GKGWfx2jeGymOdl?Ar8cx1zyEKRE 7-9-4 9-9-4 2-0-0 13-6-10 19-11-4 25-6-0 31-0-12 5-0-15 3-9-6 6-4-10 5-6-12 5-6-12 4-2-12 Scale = 1:68.8 6x6 = 2x4 || 6x6 = 6 6x6 < 4x4 / 5 5x7 = 5x7 = 6.00 12 3 10-7-7 3x4 / 5-8-2 5x7 / 1-9-8 9 ¹⁴ 13 16 3x4 || 15 12 11 19 20 5x7 = 3x10 = 4x4 = 4x8 = 5x7 = 3x6 = 18 4x5 = 3x4 5.00 12 9-9-4 13-6-10 25-6-0 31-0-12 35-3-8 2-0-0 6-4-10 2-8-5 5-0-15 3-9-6 5-6-12 5-6-12 Plate Offsets (X,Y)--[1:0-2-0,0-1-8], [3:0-5-0,0-2-8], [11:0-2-8,0-2-8] LOADING (psf) SPACING-2-0-0 DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.57 Vert(LL) -0.20 14-15 >999 360 MT20 197/144 TCDL Vert(CT) 10.0 Lumber DOL 1.15 BC 0.78 -0.34 14-15 >999 240 WB **BCLL** 0.0 Rep Stress Incr YES 0.83 Horz(CT) 0.14 10 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

0.12

>999

15

1 Row at midpt

240

Rigid ceiling directly applied or 8-1-8 oc bracing.

Structural wood sheathing directly applied or 3-1-4 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-8-11 max.): 3-4, 6-8.

Weight: 177 lb

5-14, 6-12, 7-12, 8-11, 9-10

FT = 10%

LUMBER-

10.0

BCDL

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No 2

2x3 SPF No.2 *Except* WFBS

6-12,8-12,9-10: 2x4 SPF No.2

REACTIONS. (size) 18=0-3-8, 10=0-3-8 Max Horz 18=355(LC 5)

Max Uplift 18=-207(LC 8), 10=-143(LC 5) Max Grav 18=1669(LC 2), 10=1708(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

Code IRC2018/TPI2014

TOP CHORD 1-2=-2526/426, 2-3=-2679/380, 3-4=-2359/377, 4-5=-2579/364, 5-6=-1870/282,

 $6\text{-}7\text{=-}1315/220,\ 7\text{-}8\text{=-}1316/220,\ 8\text{-}9\text{=-}786/153,\ 1\text{-}18\text{=-}1628/280,\ 9\text{-}10\text{=-}1657/149}$

BOT CHORD 17-18=-369/146, 16-17=-529/2255, 15-16=-415/2686, 14-15=-329/2296, 12-14=-262/1591, 11-12=-144/676

WEBS 2-17=-361/69, 3-16=-48/925, 4-16=-823/68, 4-15=-597/170, 5-15=-55/689, 5-14=-981/283, 6-14=-128/951, 6-12=-570/147, 7-12=-464/191, 8-12=-185/1265,

8-11=-1016/226, 1-17=-375/2264, 9-11=-169/1392

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Bearing at joint(s) 18 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 100 lb uplift at joint(s) except (jt=lb) 18=207, 10=143,
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021





Job Truss Truss Type Qty Ply Lot 145 HT 148989411 HT145 C10 Roof Special 1 Job Reference (optional)

19-11-4

6-2-0

Wheeler Lumber, Waverly, KS - 66871,

4-8-5

2-4-13

11-9-4

7-0-15

13-9-4

2-0-0

13-9-4

2-0-0

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:13 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-HilEyYEd7Ci8agELIAKJXxlwxwOOHAGiYaBPgYyEKRO 23-11-0 3-11-12 29-5-14 35-0-12 37-3-8 5-6-14 5-6-14 2-2-12

37-3-8

7-9-10

3-19, 8-12, 10-11, 9-11

Structural wood sheathing directly applied or 3-5-10 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals, and 2-0-0 oc purlins (3-4-1 max.): 4-5, 6-9.

Scale = 1:70.5

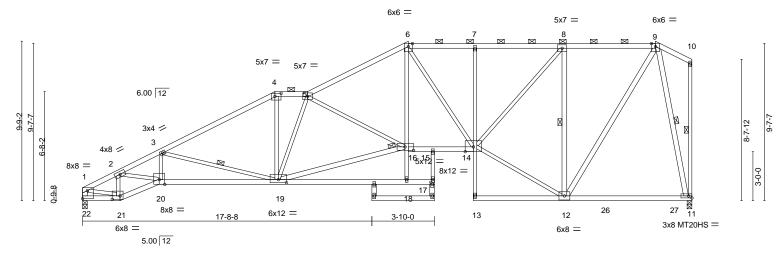


Plate Offsets (X,Y)	[1:Edge,0-5-13], [4:0-4-8,0-2-4], [1:Edge,0-5-13], [4:0-4-8,0-2-4], [16:0-6-4,0-2-8], [17:0-1-8,0-1-0], [19:0-6-0,0-2-4], [21:0-5-12,0-2-8]									
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.63	DEFL. in (loc) I/defl L/d Vert(LL) -0.28 18-19 >999 360	PLATES GRIP MT20 197/144							

21-6-8 23-11-0

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

2-4-8

5-6-14

1 Row at midpt

1 Brace at Jt(s): 16

TCDL MT20HS 10.0 Lumber DOL 1.15 BC 0.70 Vert(CT) -0.51 18-19 >875 240 148/108 **BCLL** 0.0 Rep Stress Incr YES WB 0.98 Horz(CT) 0.28 11 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.18 18-19 >999 240 Weight: 204 lb FT = 10%

19-11-4

6-2-0

LUMBER-TOP CHORD 2x4 SPF No.2 *Except*

1-4,5-6: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

17-20: 2x4 SPF 2100F 1.8E, 15-17,7-13: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

2-3-8

2-4-13

8-12,9-12,1-22,9-11,16-19,23-25,17-24: 2x4 SPF No.2

REACTIONS. (size) 22=0-3-8, 11=0-3-8

Max Horz 22=329(LC 8)

Max Uplift 22=-198(LC 8), 11=-194(LC 5) Max Grav 22=1729(LC 2), 11=1784(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-2406/269, 2-3=-4322/703, 3-4=-3020/375, 4-5=-2659/387, 5-6=-2897/353, TOP CHORD

7-0-15

6-7=-2360/307, 7-8=-2356/305, 8-9=-1195/163, 1-22=-1658/212

BOT CHORD 21-22=-353/271, 20-21=-572/2201, 19-20=-913/3839, 15-16=-331/2492, 14-15=-341/2538,

7-14=-363/146, 11-12=-54/364 **WEBS**

2-21=-1280/285, 2-20=-399/1906, 3-20=-67/576, 3-19=-1262/442, 4-19=-31/1023, 5-19=-1216/162, 5-16=-579/223, 16-18=0/262, 6-16=-154/1253, 6-14=-386/147,

12-14=-173/1351, 8-14=-252/1781, 8-12=-1759/349, 9-12=-194/1631, 1-21=-200/1886,

9-11=-1633/250. 16-19=-547/3069

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 198 lb uplift at joint 22 and 194 lb uplift at joint 11.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021



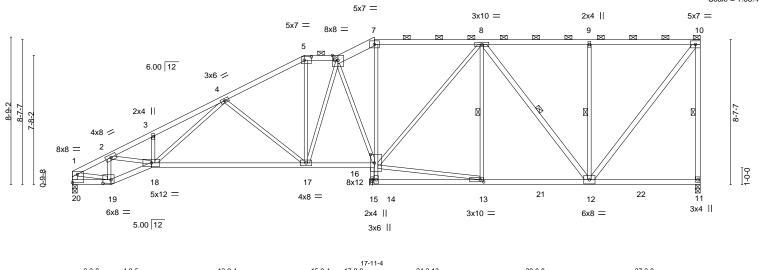
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Job Truss Truss Type Qty Ply Lot 145 HT 148989412 HT145 D1 Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:24 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-SpwOFJNWXa5aPNaSu_1uUFFnSM9GMBNJ4oLUZPyEKRD 2-3-8 4-8-5 Scale = 1:68.4



T late on	3013 (71, 1)	[1.Lugc,0 0 10], [0.0 0 0,0 2 0], [10.0 2	0,0 1 0], [10.0 0 0,0 2 1	-j, [13.0 5 12,0 2 0]	
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.32 17-18 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.61 17-18 >724 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.17 11 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.15 17-18 >999 240	Weight: 186 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

6-7: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 16-18,11-15: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

10-11,8-12,10-12,1-20: 2x4 SPF No.2

REACTIONS. (size) 11=0-3-8, 20=0-3-8

Max Horz 20=345(LC 5)

Max Uplift 11=-280(LC 5), 20=-203(LC 8) Max Grav 11=1799(LC 2), 20=1731(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-2430/294, 2-3=-4246/547, 3-4=-4245/626, 4-5=-2740/335, 5-6=-2406/332, TOP CHORD

6-7=-2437/310, 7-8=-2214/301, 8-9=-1177/211, 9-10=-1177/211, 10-11=-1666/302,

1-20=-1654/215

BOT CHORD 19-20=-326/282, 18-19=-421/2235, 17-18=-493/2909, 16-17=-409/2486, 12-13=-342/1815

Plate Offsets (X Y)-- [1:Edge 0-5-13] [5:0-5-0 0-2-8] [13:0-2-8 0-1-8] [16:0-6-0 0-2-12] [19:0-5-12 0-2-8]

WEBS 15-16=-600/0, 2-19=-1304/219, 2-18=-203/1764, 4-18=-220/1185, 4-17=-706/264, 5-17=-54/1008, 6-17=-359/151, 6-16=-835/200, 13-16=-364/1669, 8-16=-135/608,

8-12=-1048/149, 9-12=-485/210, 10-12=-292/1904, 1-19=-230/1960, 14-16=0/722,

7-16=-57/725

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=280, 20=203.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 2-5-15 oc purlins,

Rigid ceiling directly applied or 9-0-2 oc bracing.

1 Row at midpt

except end verticals, and 2-0-0 oc purlins (3-4-9 max.): 5-6, 7-10.

10-11, 8-13, 8-12, 9-12

November 30,2021





Job Truss Truss Type Qty Ply Lot 145 HT 148989413 HT145 D2 Half Hip Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:25 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-w0UmTfO9luDR0W9eShY71ToukmRa5fCTIS515syEKRC -0-10-8 0-10-8 21-7-7 29-4-13 13-11-4

7-9-7

7-8-3

6-4-11

Scale = 1:65.2

7-10-11

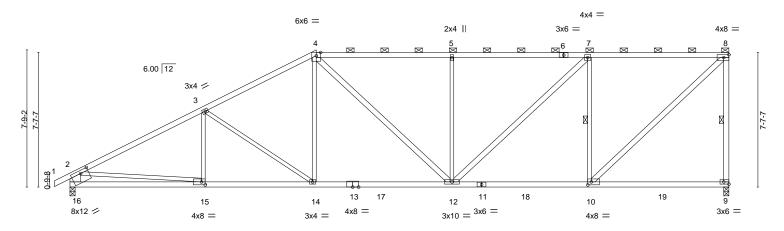
Structural wood sheathing directly applied or 2-6-5 oc purlins,

8-9, 7-10

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-8.

Rigid ceiling directly applied or 8-11-13 oc bracing.

1 Row at midpt



i	7-6-9	13-11-4	21-7-7	29-4-13	1 37-3-8	1						
	7-6-9	6-4-11	7-8-3	7-9-7	7-10-11	7						
Plate Offset	Plate Offsets (X,Y) [9:Edge,0-1-8], [10:0-2-8,0-2-0], [15:0-2-8,0-2-0], [16:0-5-4,0-2-0]											

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.96	Vert(LL)	-0.23 12-14	>999 360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.87	Vert(CT)	-0.41 12-14	>999 240)	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.79	Horz(CT)	0.08 9	n/a n/a	a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.10 12	>999 240	Weight: 165 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 4-6: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

8-9,4-12,7-12,8-10: 2x4 SPF No.2, 2-16: 2x8 SP DSS

REACTIONS. (size) 9=0-3-8, 16=0-3-8

Max Horz 16=313(LC 7)

Max Uplift 9=-300(LC 5), 16=-193(LC 8) Max Grav 9=1820(LC 2), 16=1822(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2871/259, 3-4=-2441/277, 4-5=-2256/312, 5-7=-2254/311, 7-8=-1576/265,

8-9=-1663/333, 2-16=-1691/234

BOT CHORD 15-16=-361/694, 14-15=-427/2477, 12-14=-391/2107, 10-12=-321/1576 **WEBS** $3-14=-475/210,\ 4-14=-36/561,\ 4-12=-161/381,\ 5-12=-591/243,\ 7-12=-153/932,$

7-10=-1188/351, 8-10=-353/2137, 2-15=-66/1812

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=300, 16=193.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021





Job Truss Truss Type Qty Ply Lot 145 HT 148989414 HT145 D3 Half Hip Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

7-11-1

5-7-9

11-11-4

4-0-3

14-3-0

2-3-12

-0-10-8 2-3-8 0-10-8 2-3-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:29 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-pnjHl0RfM6jtV8TQhXd3BJzdkNn71Ro2D43FFdyEKR8 21-9-15 29-6-1 37-3-8 7-6-15 7-8-3

Structural wood sheathing directly applied or 3-4-2 oc purlins,

except end verticals, and 2-0-0 oc purlins (2-7-2 max.): 5-10.

10-11, 7-12

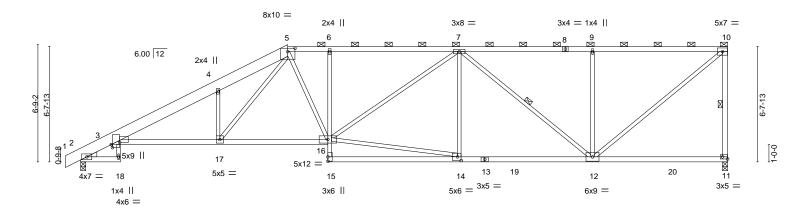
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 2-18

1 Row at midpt

2-2-0 oc bracing: 12-14.

Scale = 1:66.4



2-3-8	7-1-6	14-3-0		21-9-15		29-6-1		37-3-8	
2-3-8	4-9-14	7-1-10	ı ı	7-6-15	1	7-8-3	'	7-9-7	<u>'</u>
Plate Offsets (X,Y)	[3:0-5-12,0-1-8], [3:0-2	2-2,0-0-12], [5:0-5	5-0,0-2-5], [11:Edge	e,0-1-8], [14:0-2-8,0-2-8]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.29 16-17	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.95	Vert(CT)	-0.55 14-15	>808	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.31 11	n/a	n/a		
BCDL 10.0	Code IRC2018	/TPI2014	Matrix-S	Wind(LL)	0.20 16-17	>999	240	Weight: 181 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x8 SP DSS *Except*

5-8: 2x4 SPF No.2, 8-10: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

3-16: 2x4 SPF 2100F 1.8E, 6-15: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

10-11: 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 11=0-3-8, 2=0-3-8

Max Horz 2=267(LC 5)

Max Uplift 11=-303(LC 5), 2=-165(LC 8) Max Grav 11=1785(LC 2), 2=1809(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1073/86, 3-4=-3761/432, 4-5=-4019/556, 5-6=-2877/446, 6-7=-2871/448,

7-9=-1760/308, 9-10=-1760/308, 10-11=-1632/338

BOT CHORD 3-17=-605/3477, 16-17=-497/2586, 6-16=-433/182, 12-14=-485/2553

WEBS 4-17=-995/315, 5-17=-283/1468, 5-16=-192/788, 14-16=-476/2420, 7-16=-89/410,

7-12=-1030/168, 9-12=-585/247, 10-12=-390/2255

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=303, 2=165,
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989415 HT145 D4 Half Hip Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:30 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-HzHfWMSH7Qrj7l2cFE8lkWVm9n7cmvCCSkoon3yEKR7 -0-10₇8 2-3-8 0-10-8 2-3-8 9-11-4 28-11-8 33-0-4 37-3-8 16-3-5

6-4-1

28-11-8

1 Row at midpt

4-0-12

37-3-8

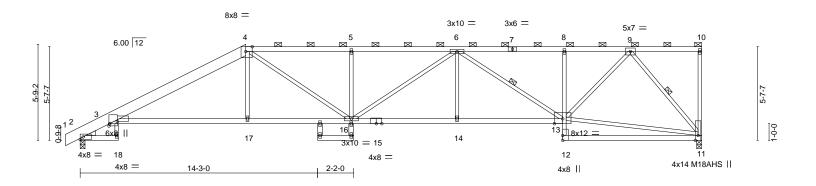
Structural wood sheathing directly applied or 3-1-7 oc purlins,

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-10.

6-13, 9-11

Rigid ceiling directly applied or 2-2-0 oc bracing.

Scale = 1:69.1



2-3-8	7-7-12	6-4-1	6-4-1	6-4-1	8-4-0	
Plate Offsets (X,Y)	[3:0-5-8,0-1-8], [3:0-1-10,0-0-8], [4:0-4-	·10,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL)	-0.35 14-16 >999	360 MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT)	-0.64 14-16 >693	240 M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr YES	WB 0.86	Horz(CT)	0.43 11 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.28 14-16 >999	240 Weight: 170 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

22-7-7

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 1-4: 2x8 SP DSS

BOT CHORD

2-3-8

2x4 SPF No.2 *Except*

3-15: 2x4 SPF 2100F 1.8E, 8-12: 2x3 SPF No.2

9-11-4

WEBS 2x3 SPF No.2 *Except*

19-21,16-20: 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 11=0-3-8, 2=0-3-8

Max Horz 2=225(LC 5)

Max Uplift 11=-306(LC 5), 2=-162(LC 5) Max Grav 11=1666(LC 1), 2=1750(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-990/102, 3-4=-3216/453, 4-5=-3559/610, 5-6=-3558/611, 6-8=-2484/436,

8-9=-2464/434

BOT CHORD 3-17=-549/2875, 16-17=-546/2878, 14-16=-685/3475, 13-14=-685/3475, 8-13=-370/155

WEBS 4-17=0/320, 4-16=-260/822, 5-16=-425/190, 6-14=0/286, 6-13=-1194/207,

11-13=-324/1137, 9-13=-295/1781, 9-11=-2032/439

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

16-3-5

- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=306, 2=162.
- 8) 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. 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

SEVIER NUMBER OFFISSIONAL STONAL PE-2001018807

OF MISS

SCOTT M.

November 30,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989416 HT145 D5 Half Hip Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:31 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-l9r1jiSvujzakRcooyfXGk2zjBZWVLkLhNYMJVyEKR6

28-11-8

6-10-13

28-11-8

1 Row at midpt

33-0-4

4-0-12

37-3-8

37-3-8

Structural wood sheathing directly applied or 3-5-10 oc purlins,

except end verticals, and 2-0-0 oc purlins (2-5-12 max.): 4-10.

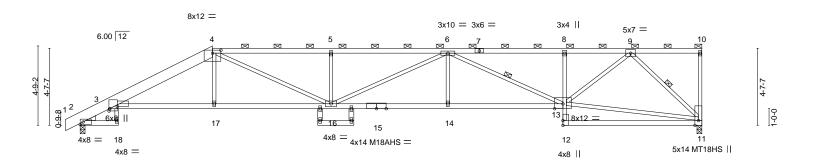
6-13, 9-11

Rigid ceiling directly applied or 6-0-0 oc bracing.

22-0-11

7-0-2

Scale = 1:69.1



2-3-8	5-7-12 ' 7-1-5	' 7	7-0-2	6-10-13	'	8-4-0	<u> </u>
Plate Offsets (X,Y)	[3:0-5-8,0-1-8], [3:0-1-10,0-0-8], [4:0-6-	0,0-2-3]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.73	Vert(LL)	-0.43 14-16 >999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT)	-0.80 14-16 >557	240	M18AHS	142/136
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Horz(CT)	0.42 11 n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.35 14-16 >999	240	Weight: 161 lb	FT = 10%
						_	

BRACING-

TOP CHORD

BOT CHORD

WEBS

22-0-11

LUMBER-

-0-10₇8 2-3-8 0-10-8 2-3-8

7-11-4

5-7-12

TOP CHORD 2x8 SP DSS *Except*

4-7: 2x4 SPF 2100F 1.8E, 7-10: 2x4 SPF No.2

7-11-4

BOT CHORD 2x4 SPF No.2 *Except*

2-3-8

3-15,13-15: 2x4 SPF 2100F 1.8E, 8-12: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

19-21,20-22: 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 11=0-3-8, 2=0-3-8

Max Horz 2=183(LC 5)

Max Uplift 11=-308(LC 5), 2=-191(LC 5) Max Grav 11=1666(LC 1), 2=1750(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-990/120, 3-4=-3514/543, 4-5=-4549/808, 5-6=-4548/809, 6-8=-3238/580,

BOT CHORD 3-17=-614/3206, 16-17=-610/3209, 14-16=-890/4587, 13-14=-890/4587, 8-13=-394/164

15-0-9

WEBS 4-17=0/273, 4-16=-362/1476, 5-16=-481/209, 6-14=0/307, 6-13=-1494/264,

11-13=-373/1427, 9-13=-359/2106, 9-11=-2267/488

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=308, 2=191.
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



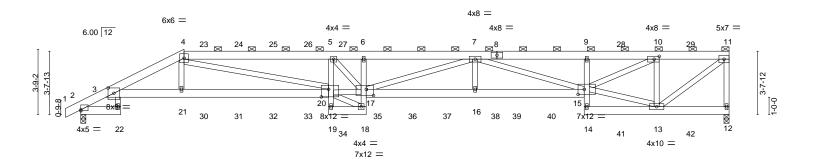
November 30,2021



Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:33 2021 Page 1

ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-hYyo8OUAPLDI_lmBwNh?L97KJ_GCzKde8h1SOOyEKR4 5-11-4 16-5-0 22-8-4 33-1-8 3-7-12 6-2-12 4-3-0 6-3-4 6-6-0

Scale = 1:66.3



2-3-8	5-11-4 3-7-12	12-2-0 6-2-12	14-3-0	16-5-0 2-2-0	22-8-4 6-3-4		-7-8 1-4	28-11-8 2-4-0	33-1-8 4-2-0	37-3-8 4-2-0
Plate Offsets (X,Y)	[2:0-0-0,0-0-11], [3:0-4-0	,0-3-10], [10:0	-3-8,0-2-0], [15:0-4-4,0-3	3-8], [17:0-5-0,0-4-4], [20:0-5-0,0	-5-4]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 NO PI2014	CSI. TC BC WB Matri	0.66 0.43 0.56 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc -0.45 16-17 -0.80 16-17 0.28 1 0.30 16-17	/ / >977 / >555 2 n/a		PLAT MT20 Weigh	

BRACING-

TOP CHORD

BOT CHORD

6-0-0 oc bracing: 2-22.

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-11.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

LUMBER-TOP CHORD

2x6 SPF No.2 *Except*

1-4: 2x6 SP DSS **BOT CHORD** 2x6 SP 2400F 2.0E

WEBS 2x4 SPF No.2 *Except*

17-20: 2x4 SPF 2100F 1.8E

REACTIONS. (size) 12=0-3-8, 2=0-3-8 Max Horz 2=107(LC 5)

Max Uplift 12=-411(LC 5), 2=-307(LC 5)

Max Grav 12=3520(LC 1), 2=3417(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2086/206, 3-4=-9385/955, 4-5=-13959/1638, 5-6=-14384/1687, 6-7=-14472/1699,

7-9=-10099/1249, 9-10=-9983/1238, 10-11=-3879/477, 11-12=-3367/456

BOT CHORD 2-22=-256/21, 3-21=-949/8653, 20-21=-953/8570, 16-17=-1779/14156,

15-16=-1779/14156, 13-14=-37/322

WEBS 3-22=-34/424, 5-20=-1166/306, 9-15=-373/100, 4-21=0/1256, 4-20=-801/5669,

7-17=-7/335, 7-16=-78/813, 7-15=-4297/519, 13-15=-457/3657, 10-15=-900/6896,

10-13=-3759/592, 11-13=-581/4894, 5-17=-59/576, 17-20=-1672/13798

NOTES-

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Unbalanced roof live loads have been considered for this design.

4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

5) Provide adequate drainage to prevent water ponding.

6) All plates are 2x4 MT20 unless otherwise indicated.

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.

9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=411, 2=307.

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.

11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



OF MISS

SCOTT M.

SEVIER

PE-2001018807

Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989417
HT145	D6	Half Hip Girder	1	3	
					Job Reference (optional)

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:34 2021 Page 2 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-9kWAMjVoAeM9bvLNU4CEuMgU3OcRintoNLm0wqyEKR3

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 127 lb down and 65 lb up at 5-11-4, 104 lb down and 65 lb up at 7-0-0, 104 lb down and 65 lb up at 9-0-0, 104 lb down and 65 lb up at 11-0-0, 104 lb down and 65 lb up at 13-0-0, 114 lb down and 75 lb up at 15-0-0, 114 lb down and 75 lb up at 31-0-0, 114 lb down and 75 lb up at 33-0-0, and 114 lb down and 75 lb up at 35-0-0, and 142 lb down and 70 lb up at 37-1-12 on top chord, and 447 lb down and 99 lb up at 5-11-4, 73 lb down at 7-0-0, 73 lb down at 9-0-0, 73 lb down at 11-0-0, 73 lb down at 13-0-0, 70 lb down at 15-0-0, 206 lb down and 55 lb up at 17-0-0, 206 lb down and 55 lb up at 19-0-0, 206 lb down and 55 lb up at 21-0-0, 206 lb down and 55 lb up at 23-0-0, 206 lb down and 55 lb up at 25-0-0, 206 lb down and 25-0-0, 206 lb up at 27-0-0, 206 lb down and 55 lb up at 29-1-4, 70 lb down at 31-0-0, 70 lb down at 33-0-0, and 70 lb down at 35-0-0, and 86 lb down at 37-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-70, 4-11=-70, 2-22=-20, 3-20=-20, 18-19=-20, 15-17=-20, 12-14=-20

Concentrated Loads (lb)

Vert: 4=-103(B) 11=-142(B) 12=-58(B) 21=-447(B) 15=-206(B) 10=-114(B) 13=-50(B) 23=-103(B) 24=-103(B) 25=-103(B) 26=-103(B) 27=-114(B) 28=-114(B) 29=-114(B) 30=-66(B) 31=-66(B) 32=-66(B) 33=-66(B) 34=-50(B) 35=-206(B) 36=-206(B) 37=-206(B) 38=-206(B) 39=-206(B) 40=-206(B) 41=-50(B) 42=-50(B) Job Truss Truss Type Qty Ply Lot 145 HT 148989418 HT145 E1 Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:34 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-9kWAMjVoAeM9bvLNU4CEuMgZqOfGivEoNLm0wqyEKR3

5-11-4 3-10-8

Scale = 1:18.3

8-10-8

0-10-8

8-0-0

2-0-12

7-10-0

1-10-12

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.

Rigid ceiling directly applied or 10-0-0 oc bracing.

8-0-0 0-2-0

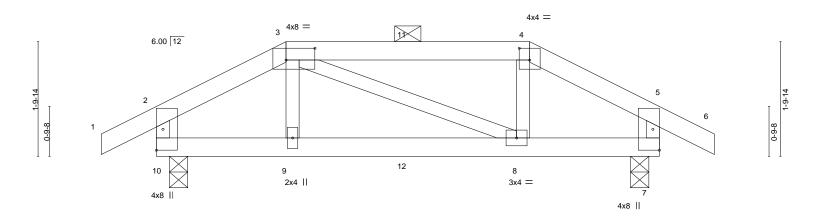


Plate Off	sets (X,Y)	[3:0-5-8,0-2-4], [4:0-2-0,0	0-2-4]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.02	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.04	8-9	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-S	Wind(LL)	0.02	8-9	>999	240	Weight: 27 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

3-10-8

LUMBER-TOP CHORD

2x4 SPF No 2 2x4 SPF No 2

-0-10-8

0-10-8

2-0-12 2-0-12

BOT CHORD 2x3 SPF No 2 WFBS

REACTIONS. 10=0-3-8, 7=0-3-8 (size) Max Horz 10=39(LC 7)

Max Uplift 10=-115(LC 8), 7=-115(LC 9)

0-2-8

Max Grav 10=417(LC 1), 7=417(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-412/130, 3-4=-320/116, 4-5=-412/129, 2-10=-350/111, 5-7=-350/111 TOP CHORD

2-0-12

1-10-4

BOT CHORD 9-10=-104/322, 8-9=-101/323, 7-8=-95/320

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=115, 7=115.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 93 lb down and 112 lb up at 2-0-12, and 56 lb down and 37 lb up at 4-0-0, and 93 lb down and 112 lb up at 5-11-4 on top chord, and 13 lb down and 4 lb up at 2-0-12, and 9 lb down and 0 lb up at 4-0-0, and 13 lb down and 4 lb up at 5-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-10=-20

Concentrated Loads (lb)

Vert: 9=2(B) 8=2(B) 12=0(B)



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148989419 HT145 E2 Common Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:35 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-dx4YZ3WQxyU0D3wZ1okTRaCkwo01RMDxc?WZSGyEKR2 -0-10-8 4-0-0 8-0-0 8-10-8 0-10-8 0-10-8 4-0-0 4-0-0 Scale = 1:19.8 4x4 = 3 6.00 12

Qty

Ply

Lot 145 HT

4x8 ||

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

4-0-0 7-9-8 3-10-0 3-9-8

2x4 ||

SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. (loc) I/defI L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.34 Vert(LL) -0.01 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.15 Vert(CT) -0.02 >999 240 WB 0.05 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.00 6 n/a n/a Code IRC2018/TPI2014 Wind(LL) Weight: 24 lb BCDL 10.0 Matrix-R 0.00 >999 240 FT = 10%

BRACING-

LUMBER-

Job

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WFBS

TOP CHORD

Truss Type

2x3 SPF No.2 **BOT CHORD**

REACTIONS. (size) 8=0-3-8, 6=0-3-8

Max Horz 8=-52(LC 6)

Truss

Max Uplift 8=-65(LC 8), 6=-65(LC 9) Max Grav 8=419(LC 1), 6=419(LC 1)

4x8 ||

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-375/59, 3-4=-375/58, 2-8=-365/91, 4-6=-365/91 TOP CHORD

BOT CHORD 7-8=-3/271, 6-7=-3/271

NOTES-

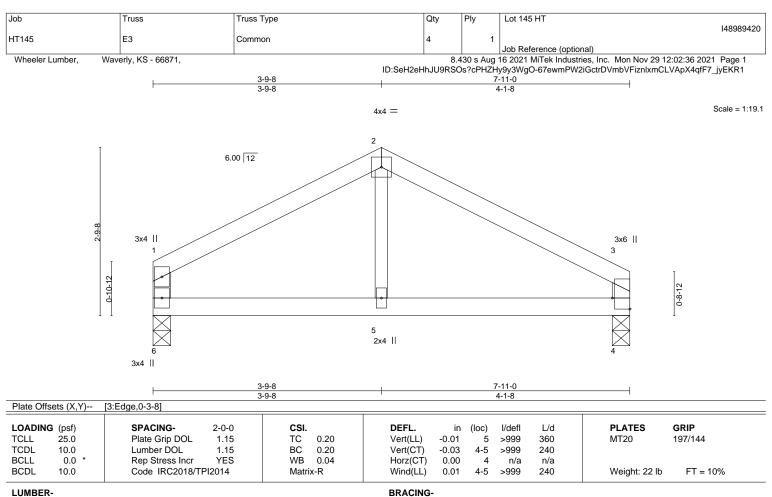
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 6) 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.



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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No 2

2x4 SPF No.2 *Except* **WEBS**

2-5: 2x3 SPF No.2

REACTIONS.

(size) 6=0-3-8, 4=0-3-8 Max Horz 6=-49(LC 6)

Max Uplift 6=-40(LC 8), 4=-42(LC 9) Max Grav 6=343(LC 1), 4=343(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-366/60, 2-3=-369/55, 1-6=-280/63, 3-4=-286/68 TOP CHORD

BOT CHORD 5-6=-8/269. 4-5=-8/269

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 6) 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.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

November 30,2021

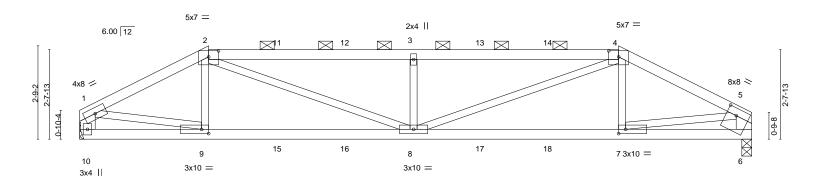






Job Truss Truss Type Qty Ply Lot 145 HT 148989421 HT145 G1 Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:37 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-aJCI_IXgTZkkSN4y9CmxW?I1cbaov8fE3J?gX9yEKR0 9-10-8 15-11-4 19-10-8 3-9-12 6-0-12 6-0-12 3-11-4

Scale = 1:34.1



	3-9-12		9-10-6	1		13-	1-4		19-11	0-0
	3-9-12		6-0-12 6-0-12					3-11	-4	
Plate Offsets (X,Y)	[2:0-3-8,0-2-3], [4:0-3	-8,0-2-3], [5:0-3-8	3,0-2-8], [7:0-2-8,0-1-8], [9:	0-2-8,0-1-8]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DO	L 1.15	TC 0.52	Vert(LL)	-0.12	8	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.23	7-8	>999	240		
BCLL 0.0 *	Rep Stress Inc	r NO	WB 0.56	Horz(CT)	0.04	6	n/a	n/a		
BCDL 10.0	Code IRC201	8/TPI2014	Matrix-S	Wind(LL)	0.11	8	>999	240	Weight: 69 lb	FT = 10%

BOT CHORD

15-11-4

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x4 SPF No.2 *Except* 2-4: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 **WEBS** 2x3 SPF No.2 *Except*

1-10,5-6: 2x6 SPF No.2

REACTIONS. (size) 10=Mechanical, 6=0-3-8

3-0-12

Max Horz 10=-48(LC 27)

Max Uplift 10=-282(LC 5), 6=-278(LC 4) Max Grav 10=1319(LC 1), 6=1313(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $1-2=-2026/475,\ 2-3=-2921/739,\ 3-4=-2921/739,\ 4-5=-2078/486,\ 1-10=-1288/289,$

5-6=-1279/286

BOT CHORD 8-9=-436/1774, 7-8=-415/1816

WEBS 2-8=-344/1272, 3-8=-693/354, 4-8=-336/1231, 1-9=-388/1638, 5-7=-391/1637

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60

0_10_8

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=282, 6=278,
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 78 lb up at 3-9-12, 87 lb down and 78 lb up at 5-10-8, 87 lb down and 78 lb up at 7-10-8, 87 lb down and 78 lb up at 9-10-8, 87 lb down and 78 lb up at 11-10-8, and 87 lb down and 78 lb up at 13-10-8, and 79 lb down and 78 lb up at 15-11-4 on top chord, and 218 lb down and 77 lb up at 3-9-12, 32 lb down at 5-10-8, 32 lb down at 7-10-8, 32 lb down at 9-10-8, 32 lb down at 11-10-8, and 32 lb down at 13-10-8, and 218 lb down and 77 lb up at 15-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



10_10_8

Structural wood sheathing directly applied or 3-11-12 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-0-11 max.): 2-4.

Rigid ceiling directly applied or 8-10-5 oc bracing.

November 30,2021



Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
	04	l <u>.</u>			148989421
HT145	G1	Hip Girder	1	1	
					Job Reference (optional)

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:37 2021 Page 2 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-aJCI_IXgTZkkSN4y9CmxW?I1cbaov8fE3J?gX9yEKR0

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 6-10=-20

Concentrated Loads (lb)

Vert: 2=-48(B) 4=-48(B) 9=-218(B) 8=-23(B) 3=-48(B) 7=-218(B) 11=-48(B) 12=-48(B) 13=-48(B) 15=-23(B) 16=-23(B) 17=-23(B) 18=-23(B)

Job Truss Truss Type Qty Ply Lot 145 HT 148989422 HT145 G2 Roof Special Girder 2 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:39 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-WiK3PRZx?B_SigELGdoPbQNMiPFHNz4XXdUnb2yEKR_

20-0-0

4-0-12

20-0-0

24-0-12

4-0-12

24-0-12

30-0-0

Structural wood sheathing directly applied or 5-3-4 oc purlins,

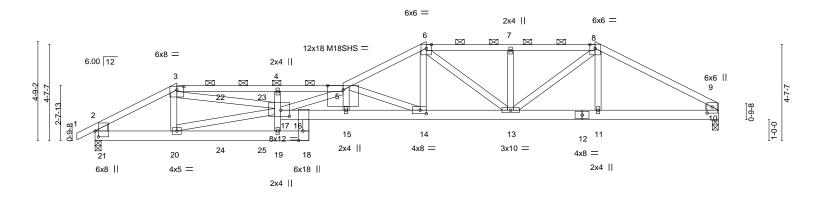
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals, and 2-0-0 oc purlins (4-6-11 max.): 3-5, 6-8.

15-11-4

4-0-0

Scale = 1:55.4



		3-11-4 ¹ 4-	10-4	1-6-0 1-7-1	2 4-0	-0	4-0-12	4-0	-12	5-11-4	
Plate Offsets	s (X,Y)	[3:0-4-0,0-1-15], [5:0-9-0	,0-2-8], [9:0-3-	9,0-3-0], [14	0-3-8,0-2-0],	[17:0-5-0,0-3-8], [18:0-5-8,Edge]	, [21:0-3-6	6,0-1-14]		
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.44 15-16	>808	360	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.76 15-16	>462	240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.14 10	n/a	n/a		
BCDL 1	10.0	Code IRC2018/T	PI2014	Matri	x-S	Wind(LL)	0.32 15-16	>999	240	Weight: 318 lb	FT = 10%
										•	

BOT CHORD

15-11-4

LUMBER-BRACING-TOP CHORD

8-9-8

8-9-8

4-10-4

10-3-8 11-11-4

. 10-3-8 . 11-11-4 .

1-7-12

1-6-0

TOP CHORD 2x4 SPF No.2 *Except* 3-5: 2x4 SPF 2100F 1.8E

3-11-4

BOT CHORD 2x6 SP DSS

-0-10-8 0-10-8

3-11-4

WEBS 2x4 SPF No.2 *Except*

2-21,9-10: 2x8 SP 2400F 2.0E

REACTIONS. (size) 21=0-3-8, 10=0-3-8

Max Horz 21=93(LC 5)

Max Uplift 21=-453(LC 8), 10=-185(LC 4)

Max Grav 21=2323(LC 1), 10=1674(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $2\text{-}3\text{=-}3625/689,\ 3\text{-}4\text{=-}10218/1829,\ 4\text{-}5\text{=-}10700/1905,\ 5\text{-}6\text{=-}5123/744,\ 6\text{-}7\text{=-}3724/545,\ 6\text{-}980/998,\ 3\text{-}980/998,\ 3\text{-}980/9$

7-8=-3724/545, 8-9=-2667/348, 2-21=-1837/388, 9-10=-1364/189

BOT CHORD 20-21=-649/3180, 19-20=-98/612, 16-17=-1856/11270, 15-16=-1856/11270, 14-15=-1857/11295, 13-14=-606/4441, 11-13=-256/2313, 10-11=-251/2301

16-18=-270/1351, 3-20=-559/182, 17-20=-574/2653, 3-17=-1213/7225, 5-17=-690/288, 5-14=-7124/1303, 6-14=-405/2596, 6-13=-967/253, 7-13=-420/149, 8-13=-302/1876,

8-11=-257/107, 17-19=-369/164, 4-17=-409/210, 5-15=-81/276

NOTES-

WEBS

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-7-0 oc, 2x8 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 21=453, 10=185.
- 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.

Continued on page 2 WARNING Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



SSIONAL

16023 Swingley Ridge Rd Chesterfield, MO 63017

OF MISSO

SCOTT M.

SEVIER

PE-2001018807

November 30,2021

	Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
						148989422
	HT145	G2	Roof Special Girder	1	2	Job Reference (optional)
L					_	Job Reference (optional)

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:39 2021 Page 2 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-WiK3PRZx?B_SigELGdoPbQNMiPFHNz4XXdUnb2yEKR_

NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb down and 78 lb up at 3-11-4, and 98 lb down and 78 lb up at 6-0-0, and 98 lb down and 78 lb up at 8-0-0 on top chord, and 218 lb down and 77 lb up at 3-11-4, 32 lb down at 6-0-0, and 32 lb down at 8-0-0, and 862 lb down and 172 lb up at 10-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-8=-70, 8-9=-70, 18-21=-20, 10-16=-20

Concentrated Loads (lb)

Vert: 3=-48(B) 18=-862(B) 20=-218(B) 22=-48(B) 23=-48(B) 24=-23(B) 25=-23(B)

Job Truss Truss Type Qty Ply Lot 145 HT 148989423 HT145 G3 Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:40 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-_uuRcnZZmU6JJqpXqLJe8dwWPpcb6SOglHDK6UyEKQz -0-10-8 0-10-8 5-11-4 5-11-4 10-3-8 <u>13-11-4</u> 17-11-4

4-0-0

4-1-8

22-0-12

1 Row at midpt

30-0-0

Structural wood sheathing directly applied or 3-5-10 oc purlins,

5-11

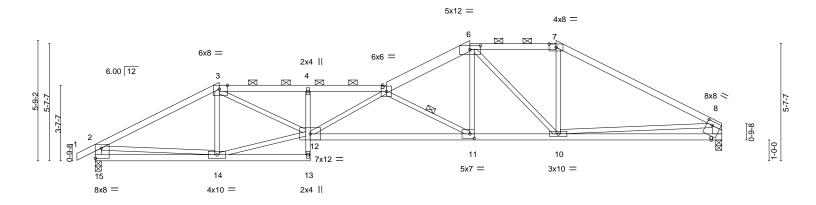
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals, and 2-0-0 oc purlins (2-7-6 max.): 3-5, 6-7.

3-7-12

13-11-7

Scale = 1:55.2



		J-11- 4	10-3-0	10-11-4	17-11-4	22-0-12		30-0-0	
		5-11-4	4-4-4	3-7-12	4-0-0	4-1-8	1	7-11-4	<u> </u>
Plate Offsets (X,Y)	[3:0-4-10,Edge], [6:0-6-	0,0-2-3], [7:0-4-0	0,0-1-15], [8:0-3-4,0-2-4],	[11:0-2-8,0-2-8], [15	:Edge,0-5-13]			
LOADING (ps	f)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 25.	0	Plate Grip DOL	1.15	TC 0.67	Vert(LL) -	0.27 11-12 >999	360	MT20	197/144
TCDL 10.	0	Lumber DOL	1.15	BC 0.58	Vert(CT) -	0.56 11-12 >634	240		
BCLL 0.	0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT)	0.12 9 n/a	n/a		
BCDL 10.	0	Code IRC2018/7	ΓPI2014	Matrix-S	Wind(LL)	0.20 11-12 >999	240	Weight: 118 lb	FT = 10%
								_	

17-11-4

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x4 SPF No 2 *Except*

10-3-8

5-6: 2x6 SPF No.2, 7-8: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

5-11-4

4-13: 2x3 SPF No.2, 9-12: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

2-15: 2x4 SPF No.2, 8-9: 2x6 SPF No.2

REACTIONS. (size) 15=0-3-8, 9=0-3-8

Max Horz 15=107(LC 5)

Max Uplift 15=-222(LC 8), 9=-99(LC 9) Max Grav 15=1406(LC 1), 9=1332(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-2166/315, 3-4=-3783/577, 4-5=-3824/574, 5-6=-2479/295, 6-7=-1767/211, TOP CHORD

7-8=-2106/209, 2-15=-1342/253, 8-9=-1250/145

BOT CHORD $14 - 15 = -259/533,\ 4 - 12 = -366/140,\ 11 - 12 = -581/4133,\ 10 - 11 = -201/2208,\ 9 - 10 = -149/617$ **WEBS** 3-14=-441/139, 12-14=-274/1797, 3-12=-288/2197, 5-12=-365/80, 5-11=-2252/441, 6-11=-144/1253, 6-10=-741/128, 7-10=-16/544, 2-14=-103/1326, 8-10=-73/1173

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 15=222.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type		Qty	Ply	Lot 145 HT		140000404
HT145	G4	Roof Special		1	1			148989424
		· ·				Job Reference (optiona	l)	
Wheeler Lumber, Wave	erly, KS - 66871,			8.4	30 s Aug	16 2021 MiTek Industries	s, Inc. Mon Nov 29 12:02:41	2021 Page 1
			ID:S	eH2eHhJU9RS	Os?cPH2	ZHy9y3WgO-S5Rpq7aBX	(oEAx_NjO2rtgrSetDwzruAp_	xzufwyEKQy
-0-10-8	8-0-0	10-3-8	16-0-0	20-0-0	1	24-10-12	30-0-0	
0-10-8	8-0-0	2-3-8	5-8-8	4-0-0		4-10-12	5-1-4	

Scale = 1:54.4

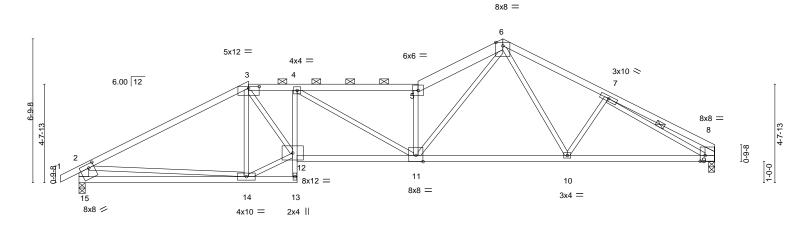
Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (2-3-5 max.): 3-5.

1 Row at midpt

Rigid ceiling directly applied or 6-0-0 oc bracing.

7-9



<u> </u>	8-0-0 8-0-0	10-3-8 2-3-8	16-0-0 5-8-8	23-0-8 7-0-7	+	30-0-0 6-11-8	——
Plate Offsets (X,Y)	[3:0-6-0,0-0-15], [8:0-2-12,0-3-4]	, [15:0-3-0,0-2-4]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	TC BC	0.88 Ve 0.76 Ve 0.78 Ho	ert(LL) -0.22 11-12 > ert(CT) -0.41 11-12 > orz(CT) 0.12 9	/defl L/d .999 360 .868 240 n/a n/a .999 240	PLATES MT20 Weight: 120 lb	GRIP 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

WEBS

TOP CHORD 2x4 SPF No.2 *Except*

5-6: 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

4-13: 2x3 SPF No.2

2x3 SPF No.2 *Except* 2-15,8-9: 2x6 SPF No.2

REACTIONS. (size) 15=0-3-8, 9=0-3-8

Max Horz 15=125(LC 8)

Max Uplift 15=-233(LC 8), 9=-121(LC 9) Max Grav 15=1408(LC 1), 9=1328(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD $2-3 = -2104/323, \ 3-4 = -2791/502, \ 4-5 = -2923/445, \ 5-6 = -3412/575, \ 6-7 = -2023/278, \ 6-7 = -2023$

7-8=-461/90, 2-15=-1333/278, 8-9=-340/94

BOT CHORD 14-15=-404/829, 4-12=-441/141, 11-12=-470/2820, 10-11=-164/1604, 9-10=-173/1817 **WEBS** 3-14=-846/225, 12-14=-312/1951, 3-12=-278/1791, 5-11=-1846/398, 6-11=-421/2283,

6-10=-69/358, 2-14=-51/937, 7-9=-1736/201

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=233, 9=121.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021



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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989425 HT145 G5 Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:42 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-wH?B1Tbpl6M0Z8ywymM6D2?pYcHkaLczDbiRBMyEKQx

20-0-0

2-0-12

23-0-7

1 Row at midpt

24-10-12

4-10-12

17-11-4

8-0-0

Scale = 1:54.4 6x8 ||

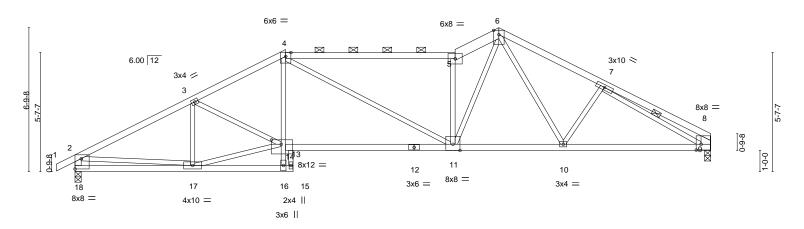
30-0-0

Structural wood sheathing directly applied or 3-6-10 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-5.

7-9

Rigid ceiling directly applied or 6-0-0 oc bracing.

30-0-0



		5-6-9	4-4-11	0-4-4	7-7-	-12	5-	1-3		6-11-9	<u> </u>
Plate Off	sets (X,Y)	[8:0-2-12,0-3-4], [13:0-	5-8,0-2-8], [18:	Edge,0-5-13]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.16 11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.36 11-13	>992	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.10 9	n/a	n/a		
BCDL	10.0	Code IRC2018/	TPI2014	Matri	x-S	Wind(LL)	0.12 11-13	>999	240	Weight: 121 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

17-11-4

LUMBER-TOP CHORD 2x4 SPF No.2 *Except*

9-11-4

10-3-8

9-11-4 4-4-11

4-5: 2x4 SPF 2100F 1.8E, 5-6: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

5-6-9

13-15: 2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except*

-0-10-8 0-10-8

2-18: 2x4 SPF No.2, 8-9: 2x6 SPF No.2

REACTIONS. (size) 18=0-3-8, 9=0-3-8 Max Horz 18=126(LC 8)

Max Uplift 18=-232(LC 8), 9=-121(LC 9) Max Grav 18=1406(LC 1), 9=1332(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2138/340, 3-4=-2322/402, 4-5=-2243/364, 5-6=-2638/469, 6-7=-2020/284,

7-8=-477/84, 2-18=-1338/261, 8-9=-347/92

BOT CHORD 17-18=-236/476, 13-15=-438/0, 13-14=-255/2043, 11-13=-314/2040, 10-11=-160/1621,

WEBS 4-11=-83/265, 5-11=-1629/394, 6-11=-359/1782, 6-10=-88/320, 7-9=-1717/214, 14-16=0/557, 4-14=-15/473, 3-17=-482/146, 14-17=-311/1820, 2-17=-116/1358

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=232, 9=121.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

November 30,2021





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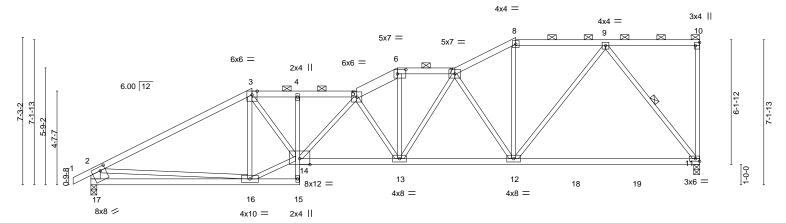


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply Lot 145 HT 148989426 HT145 G6 Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:43 2021 Page 1

ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-OTZaEocR3PUtAIX6VTtLIGY_e0fwJnY6RFS_jpyEKQw 7-11-4 10-3-8 17-11-4 <u>20-1</u>1-4 4-7-10 7-11-4 2-9-12 2-0-0 2-10-0 3-0-0

Scale = 1:56.8



⊢	7-11-4 7-11-4		17-11-4 20-1	30-0-0 9-0-12	
Plate Offsets (X,Y)	[6:0-5-0,0-2-8], [10:Edge,0-2-8], [17	:0-3-0,0-2-4]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.87 BC 0.54 WB 0.86 Matrix-S	DEFL. in (loc) Vert(LL) -0.28 11-12 Vert(CT) -0.49 11-12 Horz(CT) 0.09 11 Wind(LL) 0.12 13-14		GRIP 197/144

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x4 SPF No.2 *Except* 5-6: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

4-15: 2x3 SPF No.2, 11-14: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

2-17: 2x6 SPF No.2

REACTIONS. (size) 11=0-3-8, 17=0-3-8

Max Horz 17=276(LC 5)

Max Uplift 11=-161(LC 5), 17=-234(LC 8) Max Grav 11=1409(LC 2), 17=1444(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-2173/326, 3-4=-2726/473, 4-5=-2743/475, 5-6=-2633/428, 6-7=-2341/399, TOP CHORD

7-8=-1747/260, 8-9=-1544/256, 2-17=-1338/279

BOT CHORD 16-17=-421/814, 13-14=-488/2980, 12-13=-302/2224, 11-12=-170/899 **WEBS**

3-16=-683/208, 14-16=-326/1974, 3-14=-226/1559, 5-14=-367/53, 5-13=-1248/281,

6-13=-120/1014, 7-12=-1234/298, 8-12=-44/554, 9-12=-131/1051, 9-11=-1446/203,

2-16=-71/1069

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=161, 17=234.
- 7) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (3-4-6 max.): 3-5, 6-7, 8-10.

1 Row at midpt

Rigid ceiling directly applied or 6-0-0 oc bracing.

November 30,2021



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16023 Swingley Ridge Rd Chesterfield, MO 63017



Wheeler Lumber, Waverly, KS - 66871,

ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-LshKfUdhb1kbQbhUduvpqhdMgqK7nf4PvZx5ohyEKQu

22-11-4

1 Row at midpt

30-0-0

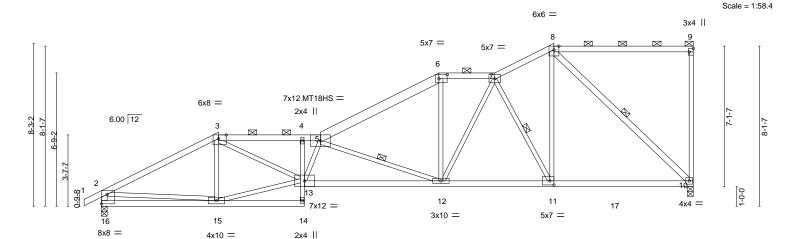
Structural wood sheathing directly applied or 3-5-8 oc purlins,

Rigid ceiling directly applied or 9-1-6 oc bracing.

except end verticals, and 2-0-0 oc purlins (2-6-7 max.): 3-5, 6-7, 8-9.

5-12, 7-11, 8-10

10-3-8 19-11-4 22-11-4 30-0-0 7-0-12 5-11-4 6-0-0 2-10-0 3-0-0



	I	0 11 7	1000		1 7	10 11 4	22 11 7		00 0 0	
	Г	5-11-4	4-4-4	6-9)-12	2-10-0	3-0-0	1	7-0-12	
Plate Off	sets (X,Y)	[3:0-4-10,Edge], [6:0-5-0,0)-2-8], [9:Edge,0-2-8]	J, [11:0-2-8,0-2-8],	[16:Edge,0-5-13]					
LOADIN	O (===f)	OD A OINO	0.00	001	DEEL	: (1)	1/-1-41	1.74	DI ATEO	ODID
LOADIN	G (psr)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.77	Vert(LL)	-0.30 12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.54 12-13	>660	240	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.98	Horz(CT)	0.12 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matrix-S	Wind(LL)	0.20 12-13	>999	240	Weight: 136 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

17-1-4

LUMBER-2x4 SPF No.2 *Except*

TOP CHORD 5-6: 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

4-14: 2x3 SPF No.2, 10-13: 2x4 SPF 2100F 1.8E

5-11-4

WEBS 2x3 SPF No.2 *Except* 8-10,2-16: 2x4 SPF No.2

REACTIONS. (size) 10=0-3-8, 16=0-3-8

Max Horz 16=316(LC 5)

Max Uplift 10=-163(LC 8), 16=-237(LC 8) Max Grav 10=1413(LC 2), 16=1444(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2244/344, 3-4=-3933/665, 4-5=-3972/662, 5-6=-2190/349, 6-7=-1915/361,

7-8=-1283/236, 2-16=-1347/268

BOT CHORD $15\text{-}16\text{=-}332/552,\ 4\text{-}13\text{=-}321/126,\ 12\text{-}13\text{=-}744/4056,\ 11\text{-}12\text{=-}235/1697,\ 10\text{-}11\text{=-}150/1133}$ **WEBS** 3-15=-441/163, 13-15=-368/1878, 3-13=-358/2272, 5-13=-271/92, 5-12=-2308/495,

6-12=-5/633, 7-12=-106/483, 7-11=-1163/287, 8-11=-179/1306, 8-10=-1576/233,

10-3-8

2-15=-74/1423

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=163, 16=237,
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989428 HT145 G8 Roof Special Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:46 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-p2FitqeKLKsS1IGhBbQ2NuAWVEc8WChZ8DheK8yEKQt

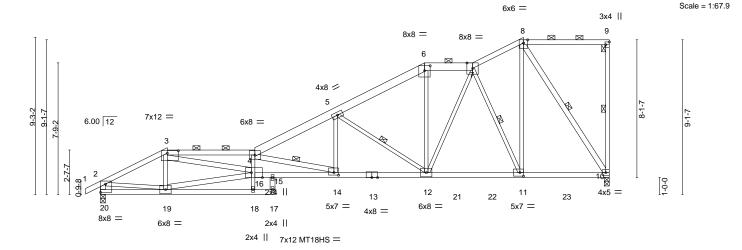
Structural wood sheathing directly applied or 3-8-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

7-3-14 oc bracing: 14-15

except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-4, 6-7, 8-9.

13-10-7 19-1-4 <u>21-11-4</u> 24-11-4 30-0-0 5-0-12 5-2-0 5-2-13 2-10-0 3-6-15 3-0-0



		3-11-4	5-2-0	1-2-4	3-6-15	5-2-13		2-10-0	3-	0-0	5-0-12	
Plate Off	sets (X,Y)	[3:0-7-12,0-1-12], [6:0-4-	0,0-3-8], [9:Ed	ge,0-2-8], [1	1:0-2-8,0-2-8	3], [14:0-3-4,0-1-12], [16:0-7	7-12,Ec	lge], [20:	Edge,0-5-1	3]	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.45	17	>789	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.78	17	>455	240	MT18HS	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(CT)	0.18	10	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-S	Wind(LL)	0.33	15	>999	240	Weight: 153 lb	FT = 10%

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SPF No.2 *Except* 3-4: 2x4 SPF 2100F 1.8E, 4-6,6-7: 2x6 SPF No.2

BOT CHORD **BOT CHORD** 2x4 SPF No.2 *Except*

13-16: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

8-2-5 oc bracing: 12-14. 15-17,8-10,2-20,4-14: 2x4 SPF No.2, 3-16,16-19: 2x4 SPF 2100F 1.8E **WEBS** 1 Row at midpt 9-10, 5-12, 7-11, 8-10, 4-14

10-3-8

REACTIONS. (size) 10=0-3-8, 20=0-3-8

Max Horz 20=358(LC 5)

Max Uplift 10=-197(LC 8), 20=-239(LC 8) Max Grav 10=1436(LC 2), 20=1459(LC 2)

3-11-4

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-2310/352, 3-4=-6342/1044, 4-5=-3213/520, 5-6=-1797/318, 6-7=-1550/322, TOP CHORD

7-8=-900/204, 2-20=-1406/257

BOT CHORD 19-20=-332/311, 15-16=-1172/6442, 14-15=-1172/6442, 12-14=-521/2843,

11-12=-174/1285, 10-11=-124/776

WEBS 3-19=-476/167, 5-12=-1591/361, 6-12=-17/498, 7-12=-131/673, 7-11=-1195/305,

8-11=-224/1344, 8-10=-1450/232, 2-19=-217/1802, 4-16=-657/166, 3-16=-713/4416,

16-19=-457/1964, 5-14=-130/1227, 4-14=-3740/677

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=197, 20=239.
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021



Design Valid to its 90 mly with win New Commercials. This design is based only upon parameters shown, and is 10 at an individual outlining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

 Job
 Truss
 Truss Type
 Qty
 Ply
 Lot 145 HT
 I48989429

 HT145
 G9
 Roof Special Girder
 1
 1
 1
 Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:48 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-IRMTIWgaty6AH3Q3I0TWSJSFIC1Le_3urbXAIO0yEKQr 21:1-4 30-0-0

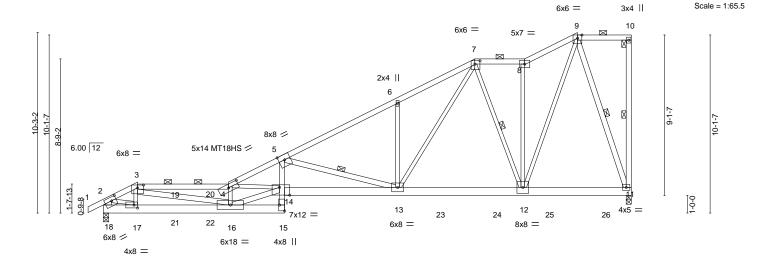
Structural wood sheathing directly applied or 1-11-14 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals, and 2-0-0 oc purlins (2-10-14 max.): 3-4, 7-8,

10-11, 5-13, 7-12, 9-11

-0-10-8 1-11-4 7-1-4 10-3-8 16-8-9 21-1-4 23-11-4 26-11-4 30-0-0 0-10-8 1-11-4 5-2-0 3-2-4 6-5-1 44-11 2-10-0 3-0-0 3-0-12



	1-11-4	7-1-4	10-3-8	16-8-9	1 21-1-4	23-11-4	26-11-4	30-0-0	- 1
	1-11-4	5-2-0	3-2-4	6-5-1	4-4-11	2-10-0	3-0-0	3-0-12	7
Plate Offsets (X,Y)	[3:0-4-0,0-1-15],	[4:0-7-0,0-2-5], [7	':0-3-8,0-2-4], [14	:0-7-0,0-5-4], [15:Edge,0-3-	-8], [17:0-2-8,0-2-0], [18:0-3-4,0-2	2-8]		

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -0.43 14 >824 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.75 13-14 >474 240	MT18HS 197/144
BCLL 0.0 *	Rep Stress Incr NO	WB 0.79	Horz(CT) 0.10 11 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.33 15 >999 240	Weight: 183 lb FT = 10%

BOT CHORD

WEBS

9-10

LUMBERTOP CHORD 2x4 SPF No 2 *Fxcent*

TOP CHORD

TOP CHORD 2x4 SPF No.2 *Except* 3-4: 2x4 SPF 2100F 1.8E

BOT CHORD 2x6 SP 2400F 2.0E *Except*

5-15: 2x4 SPF 2100F 1.8E WEBS 2x3 SPF No.2 *Except*

10-11,3-16,5-13,9-11: 2x4 SPF No.2, 14-16: 2x4 SPF 2100F 1.8E

2-18: 2x6 SPF No.2

REACTIONS. (size) 11=0-3-8, 18=0-3-8

Max Horz 18=397(LC 5)

Max Uplift 11=-235(LC 8), 18=-258(LC 8) Max Grav 11=1445(LC 2), 18=1453(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2249/345, 3-4=-5159/779, 4-5=-5613/943, 5-6=-2393/384, 6-7=-2382/513,

7-8=-956/219, 8-9=-1087/286, 2-18=-1535/257

BOT CHORD 17-18=-359/436, 16-17=-515/2054, 15-16=-142/640, 14-15=-40/337, 5-14=-306/2120,

13-14=-1033/5142, 12-13=-172/1186, 11-12=-116/433

WEBS 3-16=-448/3193, 4-16=-2720/532, 14-16=-821/4607, 4-14=-280/187, 5-13=-3199/692,

 $6\text{-}13\text{=-}428/237, \, 7\text{-}13\text{=-}380/1720, \, 7\text{-}12\text{=-}692/204, \, 8\text{-}12\text{=-}595/201, \, 9\text{-}12\text{=-}342/1618, \, 9\text{-}12$

9-11=-1332/253. 2-17=-274/1749

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=235, 18=258.
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 102 lb up at 1-11-4, and 55 lb down and 35 lb up at 4-0-0, and 55 lb down and 35 lb up at 6-0-0 on top chord, and 11 lb down and 4 lb up at 1-11-4, and 8 lb down and 0 lb up at 4-0-0, and 8 lb down and 0 lb up at 6-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

SCOTT M. SEVIER

NOMBER PE-2001018807

PESSIONAL EXCEPTION

November 30,2021

CONTINUED ON THE REPORT OF THE

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989429
HT145	G9	Roof Special Girder	1	1	
					Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:48 2021 Page 2 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-IRMTIWgaty6AH3Q3I0TWSJFtC1Le_3urbXAlO0yEKQr

NOTES-

11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-7=-70, 7-8=-70, 8-9=-70, 9-10=-70, 15-18=-20, 11-14=-20

Concentrated Loads (lb)

Vert: 17=2(F) 21=0(F) 22=0(F)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply Lot 145 HT 148989430 HT145 J4 Diagonal Hip Girder 3 Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

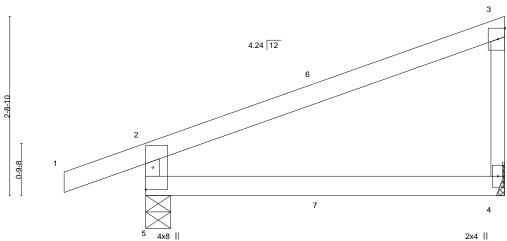
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:01 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-txfN0yqkpxlKL3vZZFBZU3HAFHtdX7Nma2pxMmyEKQe

Structural wood sheathing directly applied or 5-5-5 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Scale = 1:17.5 3x4 || 3



BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.06	4-5	>969	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 16 lb	FT = 10%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WFBS

2x3 SPF No.2

(size) 5=0-4-9, 4=Mechanical Max Horz 5=114(LC 5)

Max Uplift 5=-98(LC 4), 4=-51(LC 8)

Max Grav 5=341(LC 1), 4=223(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-299/136

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 4.
- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 37 lb up at 2-8-7, and 69 lb down and 37 lb up at 2-8-7 on top chord, and 3 lb down and 1 lb up at 2-8-7, and 3 lb down and 1 lb up at 2-8-7 bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb)

Vert: 7=1(F=1, B=1)

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

November 30,2021





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
UT4.45	IE	lack Open	10	_	148989431
HT145	Jo	Jack-Open	10	'	Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:01 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-txfN0yqkpxlKL3vZZFBZU3HDLHuVX7Nma2pxMmyEKQe

-0-10-8 0-10-8

Scale = 1:16.7

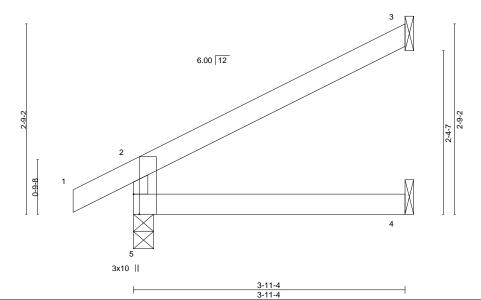


Plate Off	Plate Offsets (X,Y) [5:0-3-8,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	I2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER-**BOT CHORD**

TOP CHORD 2x4 SPF No.2 2x4 SPF No 2

2x3 SPF No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=87(LC 8)

Max Uplift 5=-26(LC 8), 3=-69(LC 8)

Max Grav 5=247(LC 1), 3=118(LC 1), 4=72(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) 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.







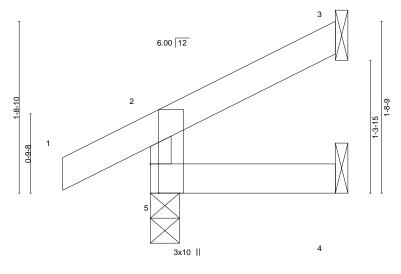
Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989432
HT145	J6	Jack-Open	8	1	
					Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:02 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-L7DIEIqMaFtByCUm7yjo1GqQLgGOGadvpiZVuCyEKQd

-0-10-8 0-10-8

Scale = 1:11.5



1-10-3

Plate Offsets (X,Y) [5:0	0-3-8,Edge]
--------------------------	-------------

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -(0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -(0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -(0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

LUMBER-**BOT CHORD**

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2

2x3 SPF No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=45(LC 8)

Max Uplift 5=-22(LC 8), 3=-32(LC 8)

Max Grav 5=166(LC 1), 3=43(LC 1), 4=32(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) 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.







Job Truss Truss Type Qty Ply Lot 145 HT 148989433 HT145 J7 Jack-Closed Girder Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:03 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-pJm8Rer_LZ?2aM3yggE1ZUNZ84Z9?0y32MI2QfyEKQc

Structural wood sheathing directly applied or 3-10-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing. Except:

except end verticals.

6-0-0 oc bracing: 3-6

3-10-8 1-11-4 1-11-4

Scale = 1:16.7

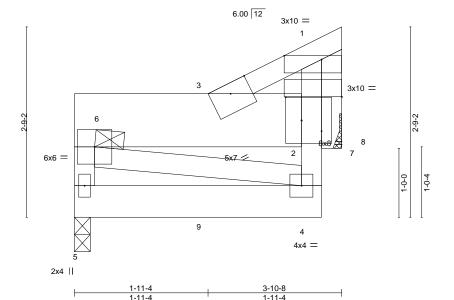


Plate Offsets (X,Y)-- [1:0-6-8,Edge], [2:0-2-12,0-4-0], [7:0-3-8,0-6-0]

LOADING	· ·	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	10 0.23	\ /	0.01 4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.25		0.01 3	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.12	Horz(CT)	0.00	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL)	0.01 3	>999	240	Weight: 30 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x10 SP DSS *Except*

4-5: 2x6 SPF No.2

WFBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 5=0-2-12, 8=Mechanical

Max Horz 5=85(LC 5)

Max Uplift 5=-119(LC 4), 8=-152(LC 5) Max Grav 5=1074(LC 1), 8=882(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 5-6=-860/141. 1-2=-137/882

WEBS 1-8=-914/157

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=119. 8=152.
- 7) 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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1214 lb down and 321 lb up at 1-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 3-6=-140, 1-3=-70, 5-9=-140, 4-9=-90

Concentrated Loads (lb)

Vert: 3=-1214(B)



November 30,2021



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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989434 HT145 J8 2 Diagonal Hip Girder Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:03 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-pJm8Rer_LZ?2aM3yggE1ZUNSq4Wx?1t32MI2QfyEKQc

3x4 ||

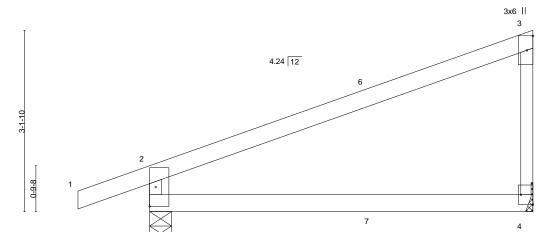
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Scale = 1:19.9

1-2-14



BRACING-TOP CHORD

BOT CHORD

Plate Off	Plate Offsets (X,Y) [4:Edge,0-2-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.07	`4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.15	4-5	>525	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	κ-R	Wind(LL)	0.03	4-5	>999	240	Weight: 19 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No 2

2x3 SPF No.2 WFBS

REACTIONS. (size) 5=0-4-9, 4=Mechanical

Max Horz 5=132(LC 24)

Max Uplift 5=-107(LC 4), 4=-66(LC 8) Max Grav 5=394(LC 1), 4=281(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-343/155

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=107.
- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 55 lb up at 3-10-9, and 79 lb down and 55 lb up at 3-10-9 on top chord, and 10 lb down at 3-10-9, and 10 lb down at 3-10-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 4-5=-20 Concentrated Loads (lb) Vert: 7=-4(F=-2, B=-2)



November 30,2021



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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989435 HT145 J9 9 Jack-Open Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:04 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-HWKWf_sc6s7vCWe8ENIG6hvihUv6kU7CG02bz5yEKQb 0-10-8 Scale = 1:18.7 6.00 12 2-9-7 3x10 ||

Plate Offs	Plate Offsets (X,Y) [5:0-3-8,Edge]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.02	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-R	Wind(LL)	0.02	4-5	>999	240	Weight: 13 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-4 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=104(LC 8)

Max Uplift 5=-28(LC 8), 3=-83(LC 8)

Max Grav 5=283(LC 1), 3=146(LC 1), 4=88(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) 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.







Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
. _					148989436
HT145	J10	Jack-Open	4	1	
					Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:48 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-IRMTIWgaty6AH3Q3I0TWSJF1i1Ue_F9rbXAlO0yEKQr

-0-10-8 0-10-8

Scale = 1:13.6

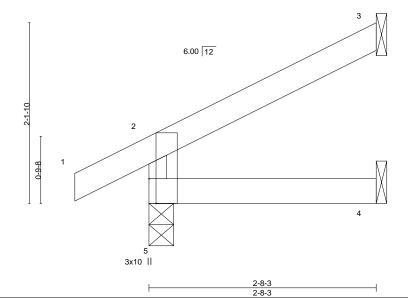


Plate Off	sets (X,Y)	[5:0-3-8,Edge]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No 2

2x3 SPF No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-8-3 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=61(LC 8)

Max Uplift 5=-23(LC 8), 3=-47(LC 8)

Max Grav 5=195(LC 1), 3=74(LC 1), 4=48(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) 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.







Job Truss Truss Type Qty Ply Lot 145 HT 148989437 HT145 J11 Diagonal Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:49 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-DdwrVsgCeFE1uD?Gsk_I?Xo3JRiUjbE?qBvJxTyEKQq -1-2-14 1-2-14 3-8-3 Scale = 1:21.8 3x4 || 4 4.24 12 3x4 = 3 2 5 6x8 = 11 0-9-8 4x4 = 3.54 12 6x8 3-8-3 3-8-3 4-7-1 SPACING-GRIP LOADING (psf) 2-0-0 CSI. DEFL. (loc) I/defl L/d PLATES **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.66 Vert(LL) -0.08 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.53 Vert(CT) -0.15 >646 240 WB **BCLL** 0.0 Rep Stress Incr NO 0.40 Horz(CT) 0.05 5 n/a n/a Code IRC2018/TPI2014 Wind(LL) BCDL 10.0 Matrix-S 0.08 6 >999 Weight: 31 lb FT = 10%LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 5-3-4 oc purlins,

BOT CHORD

except end verticals

Rigid ceiling directly applied or 10-0-0 oc bracing.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x6 SPF No.2 *Except*

6-7: 2x4 SPF No.2 WFBS 2x3 SPF No.2 *Except*

2-7: 2x6 SPF No.2

REACTIONS. (size) 7=0-3-7, 5=Mechanical

Max Horz 7=142(LC 22)

Max Uplift 7=-135(LC 4), 5=-111(LC 8) Max Grav 7=488(LC 1), 5=387(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-7=-587/198, 2-3=-849/238 **BOT CHORD** 6-7=-284/746, 5-6=-271/756 WEBS 3-6=0/252, 3-5=-721/264

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=135, 5=111.
- 7) 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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 38 lb up at 2-8-7, 70 lb down and 38 lb up at 2-8-7, and 98 lb down and 76 lb up at 5-6-6, and 98 lb down and 76 lb up at 5-6-6 on top chord, and 3 lb down and 1 lb up at 2-8-7, 3 lb down and 1 lb up at 2-8-7, and 23 lb down at 5-6-6, and 23 lb down at 5-6-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20

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November 30,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989437
HT145	J11	Diagonal Hip Girder	1	1	I-b Defenses (astional)
					Job Reference (optional)
Wheeler Lumber, Wave	erly, KS - 66871,		8.4	30 s Aug	16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:49 2021 Page 2

8.430 s Aug 16 2021 MTek Industries, Inc. Mon Nov 29 12:02:49 2021 Page 2 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-DdwrVsgCeFE1uD?Gsk_!?Xo3JRiUjbE?qBvJxTyEKQq

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 9=-33(F=-16, B=-16) 10=1(F=1, B=1) 11=-26(F=-13, B=-13)

Job Truss Truss Type Qty Ply Lot 145 HT 148989438 HT145 J12 2 Jack-Open Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:50 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-hpUDjChqPZNuWMZSQRV_XkKKGr97S8f82rfsTvyEKQp

2-8-5

Scale = 1:16.5 6.00 12 6-8-3x4 =1-0-0 5.00 12

3-10-3

3-10-3

1-1-14

except end verticals.

Structural wood sheathing directly applied or 3-10-3 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

LOADING TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.20	DEFL. Vert(LL)	in -0.01	(loc) 5-6	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.12	Vert(CT)	-0.02	5-6	>999	240	111120	1077111
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01	5-6	>999	240	Weight: 11 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

2-8-5

2-8-5

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD

2x4 SPF No.2 2x3 SPF No.2 WFBS

(size) 6=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 6=84(LC 8)

Max Uplift 6=-24(LC 8), 3=-69(LC 8)

Max Grav 6=243(LC 1), 3=115(LC 1), 4=70(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

3x6 ||

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

-0-10-8

0-10-8

- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 7) 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.



November 30,2021





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

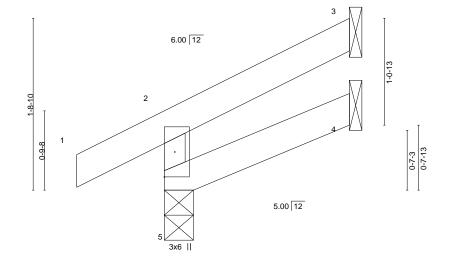
Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
1174.45	140				148989439
HT145	J13	Jack-Open	2	1	lab Defenses (autional)
					Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:50 2021 Page 1

ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-hpUDjChqPZNuWMZSQRV_XkKMMrAaS8f82rfsTvyEKQp -0-10-8 0-10-8

Scale = 1:11.5



LOADING	(psf)	SPACING- 2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC (0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC (0.02	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB (0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-I	R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

BRACING-

LUMBER-

WFBS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

TOP CHORD 2x3 SPF No.2

except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

Structural wood sheathing directly applied or 1-10-3 oc purlins,

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=44(LC 8)

Max Uplift 5=-20(LC 8), 3=-33(LC 8)

Max Grav 5=166(LC 1), 3=43(LC 1), 4=32(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 7) 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.





Job Truss Truss Type Qty Ply Lot 145 HT 148989440 HT145 J14 3 Jack-Open Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:51 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-902bwYiSAtVl8W8ez90D4ytRXFSlBbvlHVOP?LyEKQo -1-10-8 2-8-5 2-8-5 <u>5-1</u>1-4 1-10-8 Scale = 1:22.6 6.00 12 2-9-2 0-9-8

3-2-15

BRACING-TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.49	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.12	4-5	>594	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.05	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.03	5	>999	240	Weight: 18 lb	FT = 10%

5.00 12

LUMBER-

REACTIONS.

WFBS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2

(size) 6=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 6=100(LC 8)

Max Uplift 6=-8(LC 8), 3=-60(LC 8)

Max Grav 6=422(LC 1), 3=173(LC 1), 4=108(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-6=-369/55

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; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

4x8 ||

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 7) 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.



Structural wood sheathing directly applied or 5-11-4 oc purlins,

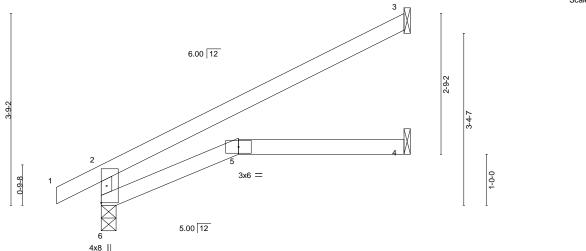
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.





Job Truss Truss Type Qty Ply Lot 145 HT 148989441 HT145 J15 Jack-Open Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:51 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-902bwYiSAtVl8W8ez90D4ytQVFSbBbvIHVOP?LyEKQo -0-10-8 0-10-8 2-8-5 2-8-5 Scale = 1:22.6



5-11-4

3-2-15

except end verticals.

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.55 BC 0.29	Vert(LL) -0.05 Vert(CT) -0.12	(loc) 4-5 4-5	l/defl L/d >999 360 >568 240	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) 0.05 Wind(LL) 0.04	5	n/a n/a >999 240	Weight: 16 lb FT = 10%

BRACING-TOP CHORD

BOT CHORD

2-8-5

2-8-5

LUMBER-

REACTIONS.

WFBS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2

(size) 6=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 6=89(LC 8) Max Uplift 3=-62(LC 8)

Max Grav 6=334(LC 1), 3=185(LC 1), 4=110(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-6=-288/43

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; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 7) 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.



November 30,2021

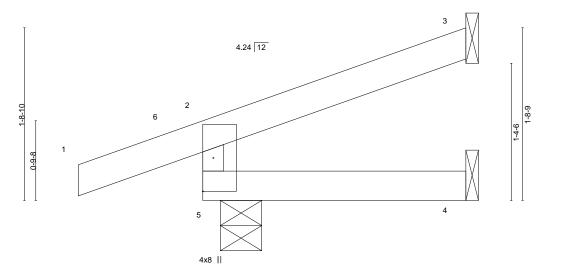




Structural wood sheathing directly applied or 5-11-4 oc purlins,

Rigid ceiling directly applied or 6-0-0 oc bracing.

Job Truss Truss Type Qty Ply Lot 145 HT 148989442 HT145 J16 Diagonal Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:52 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-eCcz7tj4xAdclgjrXsXSd9PiYerrw28RW98zYnyEKQn -1-2-14 1-2-14



LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.04	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

0-2-1

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WFBS

2x3 SPF No.2 (size) 5=0-4-15, 3=Mechanical, 4=Mechanical

Max Horz 5=61(LC 7) Max Uplift 5=-100(LC 6), 3=-44(LC 12), 4=-2(LC 19)

Max Grav 5=85(LC 1), 3=29(LC 1), 4=34(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 17 lb down and 6 lb up at -1-2-14, and 17 lb down and 6 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-26(F=-13, B=-13)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-6=-18(F=26, B=26), 6=0(F=35, B=35)-to-2=-6(F=32, B=32), 2=-6(F=32, B=32)-to-3=-49(F=10, B=32)) B=10), 5=-2(F=9, B=9)-to-4=-14(F=3, B=3)



Structural wood sheathing directly applied or 2-7-6 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Scale = 1:11.5







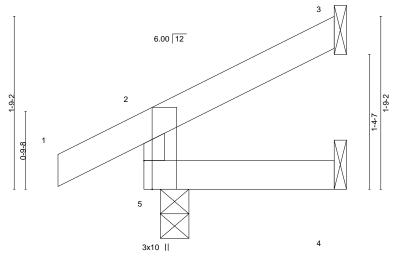
Jo	bb	Truss	Truss Type	Qty	Ply	Lot 145 HT
١		117				148989443
ΙН	T145	J17	Jack-Open	1	1	
						Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:53 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-6OAMLDjjiUITNqI15Z2h9Nytc2BFfVOblptW4EyEKQm



Scale = 1:11.7



1-9-4

Plate Off	sets (X,Y)	[5:0-3-8,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2

BOT CHORD 2x3 SPF No 2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-4 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=47(LC 8)

Max Uplift 5=-22(LC 8), 3=-34(LC 8)

Max Grav 5=169(LC 1), 3=47(LC 1), 4=34(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) 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.







Job Truss Truss Type Qty Ply Lot 145 HT 148989444 HT145 J18 2 Diagonal Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:53 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-6OAMLDjjiUITNqI15Z2h9Nyt12B0fVOblptW4EyEKQm -1-2-14 1-2-14 Scale = 1:11.8 4.24 12

0-2-1

LOADING	G (psf)	SPACING- 2-0-0	CSI	•	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC	0.10	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC	0.04	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr NC	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Mat	rix-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

4x8 ||

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-9-8 oc purlins,

except end verticals

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-4-15, 3=Mechanical, 4=Mechanical

Max Horz 5=63(LC 7)

Max Uplift 5=-94(LC 6), 3=-50(LC 12), 4=-3(LC 19) Max Grav 5=95(LC 1), 3=30(LC 1), 4=35(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 20 lb down and 7 lb up at -1-2-14, and 20 lb down and 7 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-31(F=-15, B=-15)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-23(F=23, B=23), 2=-3(F=34, B=34)-to-3=-50(F=10, B=10), 5=-0(F=10, B=10)-to-4=-14(F=3, B=34)-to-3=-50(F=10, B=10), 5=-0(F=10, B=10)-to-4=-14(F=3, B=34)-to-3=-50(F=10, B=10), 5=-0(F=10, B=10)-to-4=-14(F=3, B=34)-to-3=-50(F=10, B=10), 5=-0(F=10, B=10)-to-4=-14(F=3, B=34)-to-3=-50(F=10, B=10)-to-4=-14(F=10, B=10)-to-4









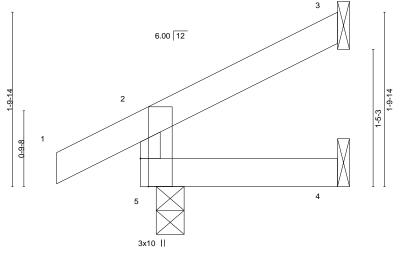
Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989445
HT145	J19	Jack-Open	3	1	
					Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:54 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-abkkYZkLTotK?_tDfHZwiaV2MSXROyekzTd4cgyEKQl

-0-10-8 0-10-8

Scale: 1"=1'



		Q-2-Q	2-0-12	1
		0-2-0	1-10-12	
Plate Offsets (X Y)	[5:0-3-8 Edge]			

T late Oil	13013 (7, 1)	[0.0 0 0,Eugc]										
LOADIN	G (psf)	SPACING- 2-0-)	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5	TC	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5	BC	0.03	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr YE	3	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix	:-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No 2

2x3 SPF No 2 WFBS

BRACING-TOP CHORD

Structural wood sheathing directly applied or 2-0-12 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=48(LC 8)

Max Uplift 5=-22(LC 8), 3=-35(LC 8)

Max Grav 5=172(LC 1), 3=50(LC 1), 4=36(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) 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.





Job Truss Truss Type Qty Ply Lot 145 HT 148989446 HT145 J22 Diagonal Hip Girder Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:54 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-abkkYZkLTotK?_tDfHZwiaV22SXJOyekzTd4cgyEKQl

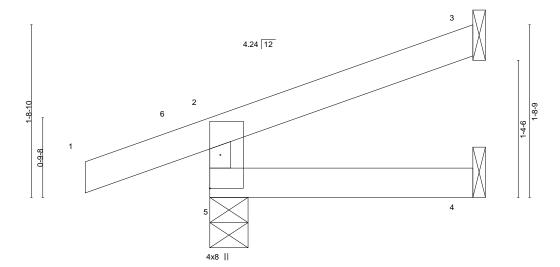
Structural wood sheathing directly applied or 2-7-6 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

-1-2-14 1-2-14

Scale = 1:11.5



2-7-6

LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL)	-0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.04	Vert(CT)	-0.00	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WFBS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2

REACTIONS. (size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=61(LC 7)

Max Uplift 5=-100(LC 6), 3=-44(LC 12), 4=-2(LC 19) Max Grav 5=85(LC 1), 3=29(LC 1), 4=34(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 17 lb down and 6 lb up at -1-2-14, and 17 lb down and 6 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-26(F=-13, B=-13)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-6=-18(F=26, B=26), 6=0(F=35, B=35)-to-2=-6(F=32, B=32), 2=-6(F=32, B=32)-to-3=-49(F=10, B=32)) B=10), 5=-2(F=9, B=9)-to-4=-14(F=3, B=3)









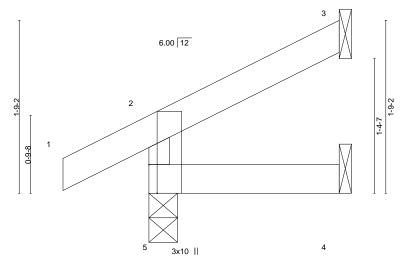
Job	Truss	Truss Type	Qty	Ply	Lot 145 HT	
						148989447
HT145	J23	Jack-Open	3	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:55 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-2nl6mvlzE5?Ad8SPC_59Eo1D6stj7PutC6Md86yEKQk

-0-10-8 0-10-8

Scale = 1:11.7



1-11-4

Plate Offsets (X,Y) [5:0-	-3-8,Edge]
---------------------------	------------

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.07 BC 0.03	DEFL. in (low Vert(LL) -0.00 Vert(CT) -0.00 4	5 >999 360	PLATES GRIP MT20 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3 n/a n/a	Weight: 6 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	5 >999 240	

LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No 2

BOT CHORD 2x3 SPF No 2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-4 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=47(LC 8)

Max Uplift 5=-22(LC 8), 3=-34(LC 8)

Max Grav 5=169(LC 1), 3=47(LC 1), 4=34(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) 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.







Job Truss Truss Type Qty Ply Lot 145 HT 148989448 HT145 J25 5 Jack-Open Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:55 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-2nl6mvlzE5?Ad8SPC_59Eo16bso17PutC6Md86yEKQk

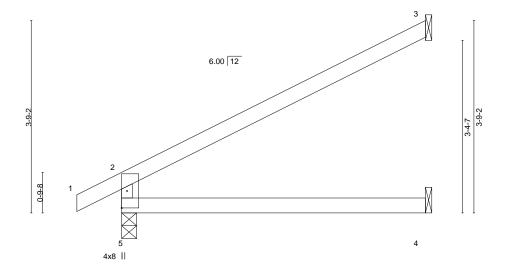
Structural wood sheathing directly applied or 5-11-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

-0-10-8 0-10-8

Scale = 1:22.5



5-11-4

LOADING	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.12	4-5	>582	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-R	Wind(LL)	0.04	4-5	>999	240	Weight: 16 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 WFBS

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical

Max Horz 5=89(LC 8) Max Uplift 3=-61(LC 8)

Max Grav 5=334(LC 1), 3=184(LC 1), 4=110(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-289/43

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; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) 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.





Job Truss Truss Type Qty Ply Lot 145 HT 148989449 HT145 J26 5 Jack-Open Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:56 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-WzrUzFmb?P71EH1cmicOn?alVG7Cssv1Rm6AhZyEKQj -0-10-8 0-10-8 Scale = 1:22.5 6.00 12 2x4 II 1-0-0 0-9-8 7 2x4 || 3x10 || 2-3-8 3-7-12 Plate Offsets (X,Y)-- [8:0-3-8,Edge]

LOADING	i (psf)	SPACING- 2-0-	-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5	TC	0.47	Vert(LL)	-0.07	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5	BC	0.39	Vert(CT)	-0.14	5-6	>480	240		
BCLL	0.0 *	Rep Stress Incr YE	S	WB	0.02	Horz(CT)	0.09	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	1	Matri	x-S	Wind(LL)	0.06	5-6	>999	240	Weight: 18 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No 2

2x3 SPF No.2 WFBS

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 8=89(LC 8) Max Uplift 4=-51(LC 8)

Max Grav 8=351(LC 1), 4=173(LC 1), 5=113(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-8=-344/13

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; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.
- 6) 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.



November 30,2021



Structural wood sheathing directly applied or 5-11-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Job Truss Truss Type Qty Ply Lot 145 HT 148989450 HT145 J27 Diagonal Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:57 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-_APsBbnDmjFusRcoKP7dKD7PRfTibFUAfQrkD?yEKQi 1-2-14 3-11-8 Scale = 1:22.9 2x4 || 5 4.24 12 4x4 = 10 3x6 = 14

BRACING-

TOP CHORD

BOT CHORD

Pla	ate Offs	ets (X,Y)	[3:0-8-15,0-1-10], [3:0-1-	8,0-1-4]										
LO	ADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TC		25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.06	7	>999	360	MT20	197/144	
TC	DL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.14	6-7	>702	240			
BC	LL	0.0 *	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.08	6	n/a	n/a			
BC	DL	10.0	Code IRC2018/T	PI2014	Matri	x-S	Wind(LL)	0.06	8	>999	240	Weight: 33 lb	FT = 10%	

12

2x4 ||

LUMBER-

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* **BOT CHORD** 3-6: 2x6 SPF No.2

WFBS 2x3 SPF No.2

REACTIONS.

(size) 9=0-4-9, 6=Mechanical

4x8 II

Max Horz 9=141(LC 5)

Max Uplift 9=-117(LC 4), 6=-87(LC 8)

Max Grav 9=490(LC 1), 6=409(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-9=-472/145, 3-4=-789/261

BOT CHORD 3-7=-287/759, 6-7=-287/759

WEBS 4-6=-741/305

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 9 = 117
- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 37 lb up at 2-8-7, 69 lb down and 37 lb up at 2-8-7, and 97 lb down and 63 lb up at 5-6-6, and 97 lb down and 63 lb up at 5-6-6 on top chord, and 3 lb down and 1 lb up at 2-8-7, 3 lb down and 1 lb up at 2-8-7, and 32 lb down at 5-6-6, and 32 lb down at 5-6-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-5=-70, 8-9=-20, 6-7=-20

Vert: 11=-19(F=-9, B=-9) 12=1(F=1, B=1) 14=-62(F=-31, B=-31)



4x4 =

Structural wood sheathing directly applied or 5-10-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

November 30,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989451 HT145 J28 2 Jack-Open Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:57 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-_APsBbnDmjFusRcoKP7dKD7Y4fXNbJAAfQrkD?yEKQi -0-10-8 2-3-8 2-3-8 3-10-3 0-10-8 1-6-11 Scale = 1:16.5 6.00 12 6 2x4 || 3x10 || 2-3-8 3-10-3

1 late Olls		[0.0 0 0,Eugc]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	-0.01	6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	3-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	x-S	Wind(LL)	0.02	3-6	>999	240	Weight: 13 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No 2

Plate Offsets (X Y)-- [8:0-3-8 Edge]

2x3 SPF No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-10-3 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 8=85(LC 8)

Max Uplift 8=-18(LC 8), 4=-54(LC 8)

Max Grav 8=256(LC 1), 4=107(LC 1), 5=79(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4.
- 6) 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.







Job Truss Truss Type Qty Ply Lot 145 HT 148989452 HT145 J29 Jack-Closed Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:58 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-SMzFOxnrX0NlUbB_u7essQfhU3sgKi9Ku4bHlRyEKQh

3x10 =

3x4 II

except end verticals.

Structural wood sheathing directly applied or 5-11-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:23.1

-0-10-8 0-10-8

3 6.00 12 3x4 =

> 5-11-4 5-11-4

> > **BRACING-**TOP CHORD

> > BOT CHORD

Plate Offsets (X,Y)-- [3:0-6-8,Edge], [4:Edge,0-2-8], [5:0-3-8,Edge]

LOADING	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.05	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 21 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

2x3 SPF No.2 WFBS **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 5=0-3-8, 7=Mechanical

Max Horz 5=83(LC 5) Max Uplift 7=-35(LC 8)

Max Grav 5=332(LC 1), 7=226(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-291/41

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; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.

3x10 ||

6) 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.







Job Truss Truss Type Qty Ply Lot 145 HT 148989453 HT145 J30 2 Diagonal Hip Girder Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:59 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-xYXdbHoUIKVc5llBRq95PeCm?T6M3DbT7kKrHtyEKQg -1-2-14 6-11-6 1-2-14 Scale = 1:20.5 3x6 || 4 4.24 12 Ш 5 10 3x4 || 2x4 || 4x8 || 2-9-3 6-11-6 Plate Offsets (X,Y)--[3:0-5-2,0-0-2], [5:Edge,0-2-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 25.0 Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.13 5-6 >643 360 MT20 197/144

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.23

0.12

0.14

5-6

5-6

5

>345

>577

except end verticals.

n/a

240

n/a

240

Rigid ceiling directly applied or 10-0-0 oc bracing.

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Weight: 22 lb

FT = 10%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No 2

10.0

0.0

10.0

2x3 SPF No 2 WFBS

REACTIONS. (size) 8=0-4-9, 5=Mechanical

Max Horz 8=121(LC 5)

Max Uplift 8=-120(LC 4), 5=-90(LC 8) Max Grav 8=419(LC 1), 5=314(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-8=-408/147

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-R

0.56

0.02

2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

NO

- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=120.
- 6) 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.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 82 lb down and 50 lb up at 4-2-8, and 82 lb down and 50 lb up at 4-2-8 on top chord, and 21 lb down and 21 lb up at 4-2-8, and 21 lb down and 21 lb up at 4-2-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 10=-32(F=-16, B=-16)



November 30,2021





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989454 HT145 J31 Jack-Open Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:02:59 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-xYXdbHoUIKVc5llBRq95PeCvfTD03DiT7kKrHtyEKQg -0-10-8 2-10-15 2-0-0 0-10-8 0-10-15 Scale = 1:14.2

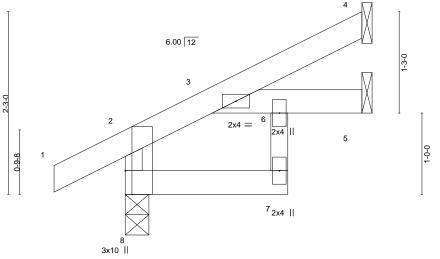


Plate Off	sets (X,Y)	[8:0-3-8,Edge]											
LOADING	G (nsf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC.	0.09	Vert(LL)	-0.00	3	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	-0.01	3	>999	240	-		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.01	Horz(CT)	-0.01	5	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-S	Wind(LL)	0.01	3	>999	240	Weight: 10 lb	FT = 10%	

2-0-0

2-0-0

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-15 oc purlins,

except end verticals.

2-10-15

0-10-15

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 8=66(LC 8)

Max Uplift 8=-19(LC 8), 4=-39(LC 8), 5=-2(LC 8) Max Grav 8=213(LC 1), 4=75(LC 1), 5=60(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
- 6) 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.







Job Truss Truss Type Qty Ply Lot 145 HT 148989455 HT145 J32 3 Jack-Open Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:00 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-Pl5?pcp62edTjvKN?YgKxrl12tW6ogwcMO4OqKyEKQf -0-10-8 0-10-8 2-0-0 2-0-0 Scale = 1:19.3

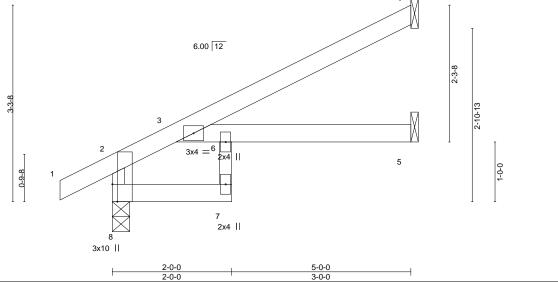


Plate Offsets (X,	[8:0-3-8,Eage]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0	0.03 6	>999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) -0	0.07 5-6	>809 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.01	Horz(CT) (0.05 5	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.05 6	>999 240	Weight: 15 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No 2

2x3 SPF No.2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 8=108(LC 8)

Max Uplift 8=-22(LC 8), 4=-73(LC 8)

Max Grav 8=305(LC 1), 4=143(LC 1), 5=93(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-8=-296/53

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4.
- 6) 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.







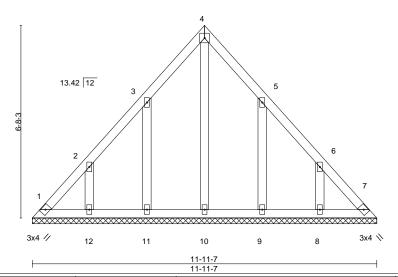
Job Truss Truss Type Qty Ply Lot 145 HT 148989456 HT145 LAY1 Lav-In Gable Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:05 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-liuusKtEtAGmpgDKo5GVevSynuHxTw7MVgn9VXyEKQa

11-11-7 5-11-12

> Scale = 1:40.0 4x4 =



LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	oc) I/o	defl L/d	PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL)	n/a	-	n/a 999	MT20 197/144	
TCDL	10.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a 999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT)	0.00	7	n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 53 lb FT = 1	0%

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

BRACING-

TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-11-7.

Max Horz 1=170(LC 7) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-142(LC 8), 12=-137(LC 8), 9=-141(LC 9),

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=142, 12=137, 9=141, 8=138.
- 8) 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.







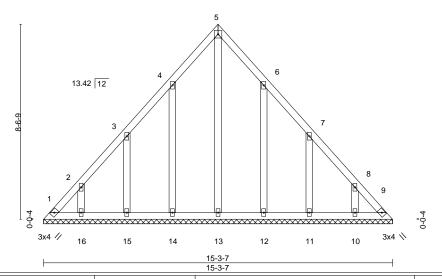
Job Truss Truss Type Qty Ply Lot 145 HT 148989457 HT145 LAY2 Lav-In Gable Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:07 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-i50eH0uVPnWT3_NjvWlzkKXHEhzKxopez_GGZQyEKQY

7-7-12

Scale = 1:50.5 4x4 =



LOADING (psf) SPACING- 2-0-0 CSI. TCLL 25.0 Plate Grip DOL 1.15 TC 0.06 TCDL 10.0 Lumber DOL 1.15 BC 0.04 BCLL 0.0 * Rep Stress Incr YES WB 0.20 BCDL 10.0 Code IRC2018/TPI2014 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999 Horz(CT) 0.00 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 76 lb FT = 10%
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LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-3-7.

Max Horz 1=-221(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 9 except 1=-111(LC 6), 14=-138(LC 8), 15=-140(LC 8),

16=-124(LC 8), 12=-136(LC 9), 11=-140(LC 9), 10=-124(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-307/193, 8-9=-276/146

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 1=111, 14=138, 15=140, 16=124, 12=136, 11=140, 10=124.
- 8) 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.



November 30,2021







Job Truss Truss Type Qty Ply Lot 145 HT 148989458 HT145 LAY3 **GABLE** Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:08 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-AHa1UMv7A5eKg7yvTDqCGX4Sv5JfgFnoBe0p6syEKQX 7-11-1 31-11-8 7-11-1 24-0-6 Scale = 1:54.9 5x7 = 6x6 // 1-5-6 18 13.42 12 19 X X X X Ø M X M 7-4-15 20 13.42 12 40-0 3x4 // 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 3x4 =3x4 // 0-0<u>-4</u> 0-0-4 25-3-15 25-3-12 6-7-8 Plate Offsets (X,Y)--[5:0-2-10,Edge], [13:0-3-8,0-3-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) n/a n/a 999 MT20 197/144 TCDL Lumber DOL Vert(CT) 10.0 1.15 BC 0.03 n/a n/a 999 WB **BCLL** 0.0 Rep Stress Incr YES 0.15 Horz(CT) -0.00 18 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 199 lb FT = 10%

LUMBER-TOP CHORD

2x4 SPF No.2 2x4 SPF No 2

BOT CHORD 2x4 SPF No 2 WFBS

OTHERS 2x4 SPF No.2 **BRACING-**

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-17.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS**

1 Row at midpt 5-32, 6-30, 7-29, 8-28, 9-27, 10-26, 11-25,

12-24, 13-23

REACTIONS. All bearings 31-11-4.

(lb) -Max Horz 1=324(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 18, 22, 32, 30, 29, 28, 27, 26, 25, 24, 23, 21, 20, 19 except

35=-138(LC 8), 34=-134(LC 8), 33=-144(LC 8)

All reactions 250 lb or less at joint(s) 18, 22, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 21, Max Grav

20, 19 except 1=314(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-437/193, 2-3=-307/142

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 18, 22, 32, 30, 29, 28, 27, 26, 25, 24, 23, 21, 20, 19 except (jt=lb) 35=138, 34=134, 33=144.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18, 21, 20, 19.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021



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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989459 HT145 LAY4 Lav-In Gable Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:10 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-6ginv1xNiiu2wR5IbesgLy9oOv?y89I5fyVwAlyEKQV 6-11-13 15-11-10 17-4-10 20-4-10 25-11-7 6-11-13 8-11-13 1-5-0 3-0-0 5-6-13 Scale: 1/4"=1 6x6 📏 3x4 // 6 8 9⊠ 10 \bowtie \boxtimes × 3x4 \\ 12 13 \bowtie 13.42 12 15 3 7-9-12 6-2-11 16 3x4 // 3x4 \\ 28 26 25 23 22 20 18 5x7 = 25-11-7 25-11-7 [5:0-1-6,Edge], [10:0-2-10,Edge], [14:0-1-6,Edge], [22:0-3-8,0-3-0] Plate Offsets (X,Y)--

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	17	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 140 lb	FT = 10%

TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No 2

2x4 SPF No 2 OTHERS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 5-10, 11-14.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 25-11-7

(lb) -Max Horz 1=-203(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 17, 23, 24, 25, 26, 27, 20 except 28=-150(LC 8), 29=-134(LC 8), 21=-103(LC 9), 19=-133(LC 9), 18=-139(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 17, 22, 23, 24, 25, 26, 27, 28, 29, 21, 20, 19, 18

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-304/191, 16-17=-268/136

NOTES-

LUMBER-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 17, 23, 24, 25, 26, 27, 20 except (jt=lb) 28=150, 29=134, 21=103, 19=133, 18=139.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 30,2021



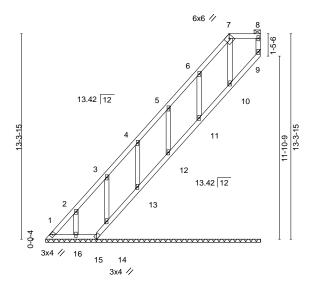


Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
		0.151.5			148989460
HT145	LAY5	GABLE	1	1	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:11 2021 Page 1

ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-asF97Nx?T00vXbgU8LNvuAiyzJKMteLEtcETjByEKQU 13-11-8 11-11-1 2-0-6

Scale = 1:74.8



0-0-4 3-3-15 0-0-4 3-3-12 13-11-8 10-7-8

Plate Offsets (X,Y) [7:0-2-10,Edge]												
LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	9	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 66 lb	FT = 10%

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No 2 2x4 SPF No 2 WFBS **OTHERS** 2x4 SPF No.2 TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-11-4.

(lb) -Max Horz 1=507(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 9, 15, 10 except 1=-170(LC 6), 16=-140(LC 8), 14=-144(LC 8),

13=-136(LC 8), 12=-133(LC 8), 11=-151(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 9, 15, 16, 14, 13, 12, 11, 10 except 1=497(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-681/288, 2-3=-552/237, 3-4=-414/184, 4-5=-277/131

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 15, 10 except (jt=lb) 1=170, 16=140, 14=144, 13=136, 12=133, 11=151.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 14, 13, 12, 11, 10.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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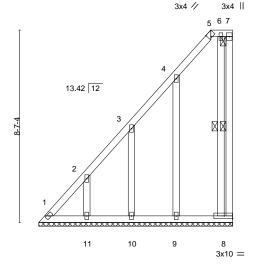


Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
LUT4 45	1.43/0				I48989461
HT145	LAY6	Lay-In Gable	1	1	Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:11 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-asF97Nx?T00vXbgU8LNvuAiuzJlptcjEtcETjByEKQU

7-8-5 7-8-5

Scale = 1:51.5



8-8-0 8-8-0

Plate Off	Plate Offsets (X,Y) [5:0-1-6,Edge]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	n/a	-	n/a	999	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	8	n/a	n/a			
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-S						Weight: 56 lb	FT = 10%	

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No 2 2x4 SPF No 2 WERS

OTHERS 2x4 SPF No.2 TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEBS 1 Row at midpt 7-8, 6-8

REACTIONS. All bearings 8-8-0.

(lb) -Max Horz 1=330(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-132(LC 6), 8=-127(LC 7), 11=-145(LC 8), 10=-133(LC 8),

9=-141(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 8, 11, 10, 9 except 1=263(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-356/244, 2-3=-278/188 TOP CHORD

WEBS 6-8=-210/289

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 1, 127 lb uplift at joint 8, 145 lb uplift at joint 11, 133 lb uplift at joint 10 and 141 lb uplift at joint 9.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.









Job Truss Truss Type Qty Ply Lot 145 HT 148989462 HT145 LAY7 **GABLE** Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:12 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-22pXKjydEK8m9lFhi3u8RNE82igVc4aO6G_1FdyEKQT 5-11-13 5-11-13 Scale = 1:37.6 6x6 // ⊠å 3x4 // 13.42 12 3

13.42 12 10 3x4 // 14 13 12 11 6x8 //

Plate Offsets (X,Y)-- [4:0-2-10,Edge], [8:0-0-11,0-1-8]

LOADIN TCLL	VI /	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.05	DEFL. Vert(LL)	in	(loc)	l/defl	L/d 999	PLATES GR MT20 197	I IP 7/144
TCDL	25.0 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.05 BC 0.04	Vert(CT)	n/a n/a	-	n/a n/a	999	W1120 197	/144
BCLL	0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S						Weight: 63 lb	FT = 10%

LUMBER-TOP CHORD

2x4 SPF No 2 2x4 SPF No 2

BOT CHORD 2x4 SPF No 2 OTHERS

BRACING-

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 4-8.

13-9-12 5-11-13

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-9-8.

(lb) -Max Horz 1=261(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 11, 12, 10, 9 except 14=-135(LC 8), 13=-148(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 8, 11, 14, 13, 12, 10, 9

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-273/114

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8, 11, 12, 10, 9 except (jt=lb) 14=135, 13=148.
- 8) N/A
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





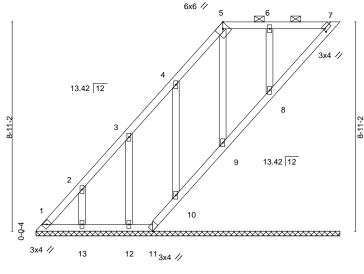
Job Truss Truss Type Qty Ply Lot 145 HT 148989463 HT145 LAY8 **GABLE** Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:13 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-WFNvX3zG_dGdnvqtGmPNzbnlF60YLX7XLwjan3yEKQS

7-11-13 12-11-12 7-11-13 4-11-15

Scale = 1:49.1



0-0-4 0-0-4 4-11-12 Plate Offsets (X,Y)-- [5:0-2-10,Edge], [7:0-0-11,0-1-8]

7-11-13

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-S						Weight: 59 lb	FT = 10%

LUMBER-

2x4 SPF No 2 2x4 SPF No 2

TOP CHORD **BOT CHORD** 2x4 SPF No 2 OTHERS

BRACING-

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 5-7.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.

REACTIONS. All bearings 12-11-8.

(lb) -Max Horz 1=352(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 11, 8 except 13=-138(LC 8), 12=-135(LC 8), 10=-155(LC 8) Max Grav All reactions 250 lb or less at joint(s) 7, 11, 13, 12, 10, 9 except 1=267(LC 8), 8=259(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-374/154

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 11, 8 except (jt=lb) 13=138, 12=135, 10=155.
- 8) N/A
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



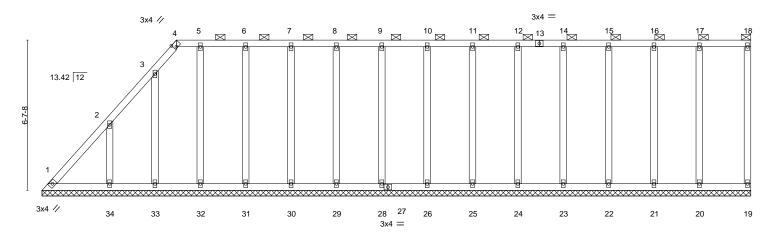




Job Truss Truss Type Qty Ply Lot 145 HT 148989464 HT145 LAY9 Lav-In Gable Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:14 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-_RxIIP_ulxOUO2P3qUwcWoKSTWLP4_rgaaT7JWyEKQR

31-3-0

Scale = 1:50.8



31-3-0 31-3-0 Plate Offsets (X Y)--[4:0-1-6 Edge]

_ riale Olisels (A, I)	[4.0-1-0,Euge]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.18	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.07 WB 0.11	Vert(CT) n/a - n/a 999 Horz(CT) -0.00 19 n/a n/a	25
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	, ,	Weight: 173 lb FT = 10%

LUMBER-BRACING-

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No 2 2x4 SPF No.2 WFBS **OTHERS** 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-18. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 31-3-0.

(lb) -Max Horz 1=251(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 1, 19, 33, 32, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20 except

34=-199(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 19, 33, 32, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20

except 34=287(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-260/186

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 19, 33, 32, 31, 30, 29, 28, 26, 25, 24, 23, 22, 21, 20 except (jt=lb) 34=199.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job Truss Truss Type Qty Ply Lot 145 HT 148989465 HT145 LAY10 Lav-In Gable Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:06 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-DuSG3guteUOdRqoXMonkB6?5SId?CMzVkKXi1zyEKQZ

2-10-11 2-10-11 4-10-11 10-11-13 19-11-10 2-0-0 6-1-2 8-11-13

Scale = 1:58.4

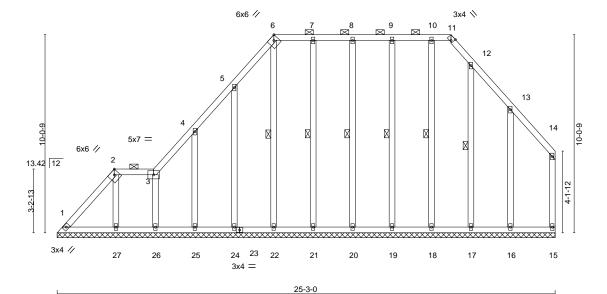


Plate Offsets (X,Y)-- [2:0-2-10,Edge], [6:0-2-10,Edge], [11:0-1-6,Edge]

LOADIN TCLL	G (psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.12	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999	WIIZO	137/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TF	YES PI2014	WB Matri	0.17 x-S	Horz(CT)	-0.00	15	n/a	n/a	Weight: 161 lb	FT = 10%

LUMBER-TOP CHORD 2x4 SPF No 2

BOT CHORD 2x4 SPF No 2 2x4 SPF No 2 WERS **OTHERS** 2x4 SPF No.2

BRACING-TOP CHORD **BOT CHORD**

WEBS

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3, 6-11. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 6-22, 7-21, 8-20, 9-19, 10-18, 12-17

REACTIONS. All bearings 25-3-0.

(lb) -Max Horz 1=314(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 15, 21, 20, 19, 18 except 1=-196(LC 4), 27=-271(LC 5),

26=-204(LC 4), 25=-149(LC 8), 24=-140(LC 8), 22=-125(LC 7), 16=-196(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 15, 25, 24, 22, 21, 20, 19, 18, 17 except 1=301(LC 7), 27=365(LC 15), 26=296(LC 16), 16=264(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-375/330, 3-4=-323/296, 4-5=-288/286, 5-6=-249/280

2-27=-297/295, 3-26=-263/223 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 21, 20, 19, 18 except (jt=lb) 1=196, 27=271, 26=204, 25=149, 24=140, 22=125, 16=196.
- 9) 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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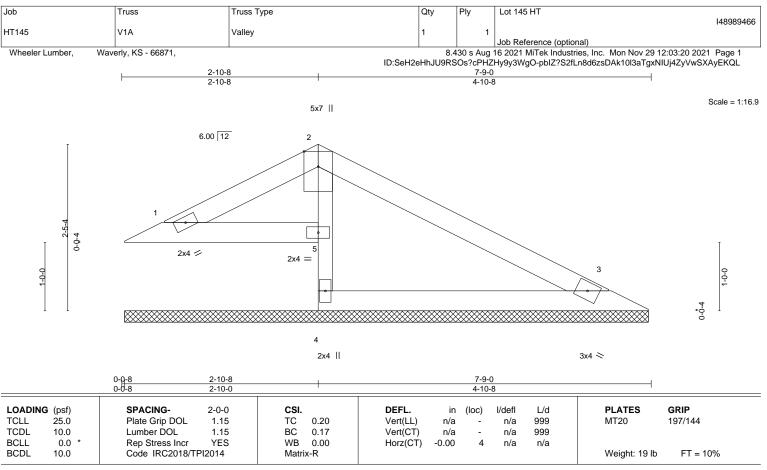


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





LUMBER-

TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 *Except* BOT CHORD 2-4: 2x3 SPF No.2

BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 7-8-0.

Max Horz 1=-61(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 3, 5

Max Grav All reactions 250 lb or less at joint(s) 1, 3, 4 except 5=264(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * 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.
- 6) Bearing at joint(s) 5 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 100 lb uplift at joint(s) 1, 3, 5.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 9) 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.



November 30,2021





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Lot 145 HT 148989467 HT145 V2A Valley Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:21 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-HnsxDo3H65HUk7RPkSYFIH6gMLIYDAKiB9f?3cyEKQK 2-10-8 2-10-8 Scale = 1:10.0 2x4 || 6.00 | 12 2 0-0-4 2x4 || 2x4 >

SPACING-CSI. DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 in (loc) I/defI L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) n/a n/a 999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.04 Vert(CT) n/a n/a 999 YES WB 0.00 **BCLL** 0.0 Rep Stress Incr Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 7 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WFBS

2x3 SPF No.2

(size) 3=2-10-0, 2=2-10-0

Max Horz 3=-45(LC 4)

Max Uplift 3=-24(LC 9), 2=-12(LC 9) Max Grav 3=96(LC 1), 2=96(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 6) 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.



Structural wood sheathing directly applied or 2-10-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals



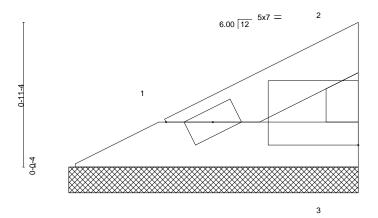




Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989468
HT145	V3	Valley	1	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:22 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-lzQJQ84vtOPLMH0cl94UqUfr0k5GydasPpPYb2yEKQJ

Scale = 1:7.5



2x4 /

Matrix-P

Plate Offsets (X,Y)--[2:Edge,0-1-13] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 25.0 Plate Grip DOL 1.15 TC 0.02 Vert(LL) n/a n/a 999 MT20 197/144 TCDL Lumber DOL вс Vert(CT) 10.0 1.15 0.01 n/a n/a 999 WB 0.00 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) -0.00 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No 2 WFBS

10.0

REACTIONS. (size) 1=1-10-8, 3=1-10-8

Max Horz 1=24(LC 5)

Max Uplift 1=-7(LC 8), 3=-13(LC 8) Max Grav 1=51(LC 1), 3=51(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

Code IRC2018/TPI2014

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.



Weight: 4 lb

Structural wood sheathing directly applied or 1-10-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

FT = 10%





Job Truss Truss Type Qty Ply Lot 145 HT 148989469 HT145 V4 Valley Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:22 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-IzQJQ84vtOPLMH0cl94UqUfmWk2Lyc6sPpPYb2yEKQJ

Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

10-0-8

Scale = 1:28.9

		2x4 3	
·	6.00 12		
	2x4		
	2		
5-0-4			
и,			
			
	14	******	
	3x4 🛩 5	4	
	2x4	2x4	Ш

GRIP SPACING-DEFL. LOADING (psf) 2-0-0 CSI. in (loc) I/defI L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.37 Vert(LL) n/a n/a 999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.20 Vert(CT) n/a n/a 999 WB 0.09 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) -0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 29 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No 2 WFBS OTHERS 2x3 SPF No.2

REACTIONS. (size) 1=10-0-8, 4=10-0-8, 5=10-0-8

Max Horz 1=194(LC 5)

Max Uplift 4=-28(LC 5), 5=-160(LC 8)

Max Grav 1=196(LC 1), 4=110(LC 1), 5=532(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-5=-401/212

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=160.
- 6) 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.







Job Truss Truss Type Qty Ply Lot 145 HT 148989470 HT145 V5 Valley Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:23 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-EA_heU5XeiXC_RbortbjNiCzd8Qvh4u?eT868UyEKQI

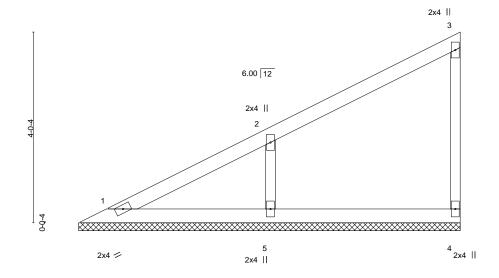
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

8-0-8

Scale = 1:24.3



GRIP SPACING-CSI. DEFL. LOADING (psf) 2-0-0 in (loc) I/defI L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.22 Vert(LL) n/a n/a 999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.11 Vert(CT) n/a n/a 999 WB 0.06 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) -0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 23 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No 2 WFBS 2x3 SPF No 2 OTHERS

REACTIONS. (size) 1=8-0-8, 4=8-0-8, 5=8-0-8

Max Horz 1=152(LC 5)

Max Uplift 4=-26(LC 5), 5=-124(LC 8)

Max Grav 1=117(LC 16), 4=136(LC 1), 5=412(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

WEBS 2-5=-320/179

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=124.
- 6) 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.



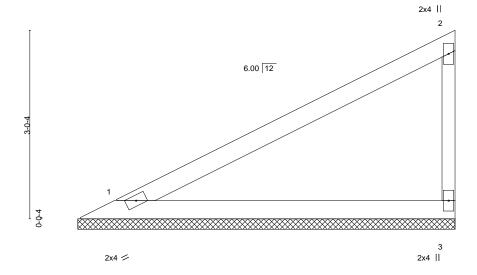
November 30,2021







Job Truss Truss Type Qty Ply Lot 145 HT 148989471 HT145 V6 Valley Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:24 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-iMY4rq59P0f3bbA_Pa6ywvk3CYiFQX39t7ufgxyEKQH 6-0-8



SPACING-CSI. DEFL. GRIP LOADING (psf) 2-0-0 in (loc) I/defI L/d **PLATES TCLL** 25.0 Plate Grip DOL 1.15 TC 0.55 Vert(LL) n/a n/a 999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.30 Vert(CT) n/a n/a 999 YES WB 0.00 **BCLL** 0.0 Rep Stress Incr Horz(CT) -0.00 n/a n/a Code IRC2018/TPI2014 Weight: 16 lb BCDL 10.0 Matrix-P FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WFBS

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2

(size) 1=6-0-8, 3=6-0-8

Max Horz 1=111(LC 5) Max Uplift 1=-31(LC 8), 3=-59(LC 8)

Max Grav 1=239(LC 1), 3=239(LC 1)

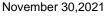
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.



Scale = 1:18.5





Structural wood sheathing directly applied or 6-0-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Job Truss Truss Type Qty Ply Lot 145 HT 148989472 HT145 V7 Valley Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:24 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-iMY4rq59P0f3bbA_Pa6ywvk8jYlEQX39t7ufgxyEKQH

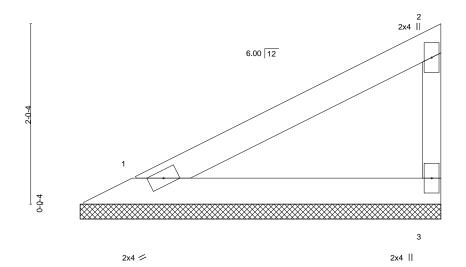
Structural wood sheathing directly applied or 4-0-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

4-0-8

Scale = 1:12.9



LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	oc) l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL)	n/a	- n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.11	Vert(CT)	n/a	- n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P					Weight: 10 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WFBS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2

REACTIONS. (size) 1=4-0-8, 3=4-0-8

Max Horz 1=69(LC 5) Max Uplift 1=-19(LC 8), 3=-36(LC 8)

Max Grav 1=149(LC 1), 3=149(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.

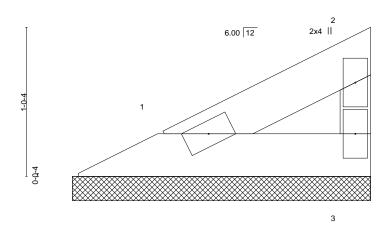






Job Truss Truss Type Qty Ply Lot 145 HT 148989473 HT145 V8 Valley Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:25 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-AY6S3A6nAJnwDllAzldBS7HM8y6v9_Jl5ndDCNyEKQG

Scale = 1:7.9



2x4 || 2x4 /

LOADING	(psf)	SPACING- 2-0)-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.	15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.	15	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YE	ES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	4	Matri	x-P						Weight: 4 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WFBS

REACTIONS. (size) 1=2-0-8, 3=2-0-8

> Max Uplift 1=-8(LC 8), 3=-14(LC 8) Max Grav 1=59(LC 1), 3=59(LC 1)

Max Horz 1=27(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.



Structural wood sheathing directly applied or 2-0-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

November 30,2021





Job Truss Truss Type Qty Ply Lot 145 HT 148989474 HT145 V9 Valley Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:26 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-elfqGV7PxdvnruKNX?8Q?KqTZMPKuQZRKRNmkpyEKQF 0-6-12 Scale = 1:19.2 5x7 = 2x4 || 3 6.00 12 5 4 2x4 || 2x4 || 4x4 🖊 Plate Offsets (X,Y)-- [2:0-3-10,Edge]

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R						Weight: 18 lb	FT = 10%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WFBS

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No 2

2x3 SPF No 2

(size) 1=6-5-4, 4=6-5-4, 5=6-5-4

Max Horz 1=103(LC 5)

Max Uplift 1=-20(LC 8), 4=-344(LC 1), 5=-159(LC 8) Max Grav 1=192(LC 1), 4=91(LC 8), 5=667(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-5=-463/196

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=344, 5=159.
- 8) 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 2-5, 2-3.

Rigid ceiling directly applied or 10-0-0 oc bracing.

November 30,2021



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989475
HT145	V10	Valley	1	1	
					Job Reference (optional)

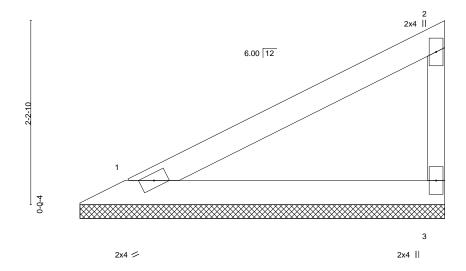
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:15 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-TdVgyl?WWFWL0C_FNBSr20sc8wgfpSrqoEChsyyEKQQ

Structural wood sheathing directly applied or 4-5-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Scale = 1:13.9



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 11 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WFBS 2x3 SPF No.2

(size) 1=4-4-12, 3=4-4-12

Max Horz 1=77(LC 5)

Max Uplift 1=-21(LC 8), 3=-41(LC 8) Max Grav 1=167(LC 1), 3=167(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.



November 30,2021





Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
					148989476
HT145	V11	Valley	1	1	
					Job Reference (optional)

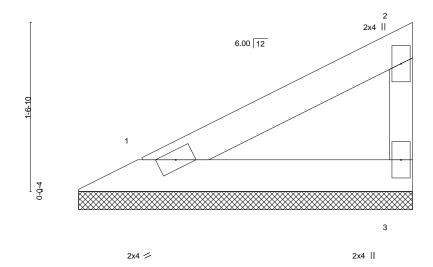
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:16 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-xq32A5?8HYeCeMZSxvz4bDPpKK2DYv5z1uyEOOyEKQP

Structural wood sheathing directly applied or 3-1-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Scale = 1:10.6



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 7 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2

WFBS 2x3 SPF No.2

(size) 1=3-0-12, 3=3-0-12

Max Horz 1=50(LC 5)

Max Uplift 1=-14(LC 8), 3=-26(LC 8) Max Grav 1=107(LC 1), 3=107(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.







Job Truss Truss Type Qty Ply Lot 145 HT 148989477 HT145 V12 Valley Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:17 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-P0dQNQ0m2sm3FW8eVcUJ7RywwjLCHML7GYhnwryEKQO

2x4 ||

except end verticals.

Structural wood sheathing directly applied or 5-1-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale: 3/4"=1"

2x4 || 2 6.00 12 9-0-0 3

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 13 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WFBS

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2

(size) 1=5-0-12, 3=5-0-12

Max Horz 1=91(LC 5)

Max Uplift 1=-25(LC 8), 3=-48(LC 8) Max Grav 1=197(LC 1), 3=197(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

2x4 🖊

6) 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.







Job Truss Truss Type Qty Ply Lot 145 HT 148989478 HT145 V13 Valley Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

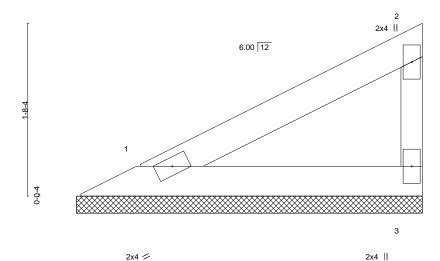
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:18 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-tCAobm1OpAuwtgiq3J?YgeU9Q7iT0paGUBRLSHyEKQN

Structural wood sheathing directly applied or 3-4-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

Scale = 1:11.2



SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 CSI. in (loc) I/defl L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.12 Vert(LL) n/a n/a 999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.07 Vert(CT) n/a n/a 999 YES WB 0.00 **BCLL** 0.0 Rep Stress Incr Horz(CT) -0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 8 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WFBS

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2

REACTIONS. (size) 1=3-4-8, 3=3-4-8

Max Horz 1=55(LC 5)

Max Uplift 1=-15(LC 8), 3=-29(LC 8) Max Grav 1=119(LC 1), 3=119(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

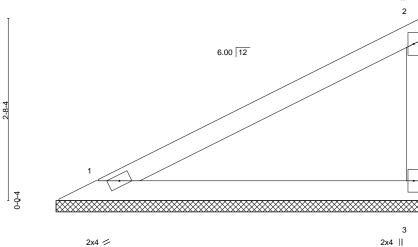
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.







Job Truss Truss Type Qty Ply Lot 145 HT 148989479 HT145 V14 Valley Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:18 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-tCAobm1OpAuwtgiq3J?YgeU4u7g00paGUBRLSHyEKQN Scale = 1:17.0 2x4 ||



SPACING-CSI. DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 in (loc) I/defI L/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.41 Vert(LL) n/a n/a 999 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 вс 0.22 Vert(CT) n/a n/a 999 YES WB 0.00 **BCLL** 0.0 Rep Stress Incr Horz(CT) -0.00 n/a n/a Code IRC2018/TPI2014 Weight: 14 lb BCDL 10.0 Matrix-P FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

WFBS

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2

2x3 SPF No.2 REACTIONS. (size) 1=5-4-8, 3=5-4-8

Max Horz 1=97(LC 5) Max Uplift 1=-27(LC 8), 3=-51(LC 8) Max Grav 1=209(LC 1), 3=209(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.



Structural wood sheathing directly applied or 5-4-8 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals





Job	Truss	Truss Type	Qty	Ply	Lot 145 HT
		l.,	l.		148989480
HT145	V15	Valley	1	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Nov 29 12:03:20 2021 Page 1 ID:SeH2eHhJU9RSOs?cPHZHy9y3WgO-pbIZ?S2fLn8d6zsDAk10l3aUlxObUj4ZyVwSXAyEKQL

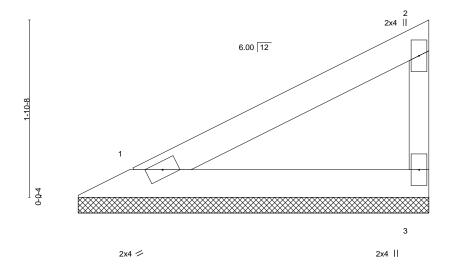
Structural wood sheathing directly applied or 3-9-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals

3-9-0

Scale = 1:12.2



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 9 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WFBS 2x3 SPF No.2

REACTIONS. (size) 1=3-8-8, 3=3-8-8

Max Horz 1=63(LC 7) Max Uplift 1=-17(LC 8), 3=-33(LC 8)

Max Grav 1=136(LC 1), 3=136(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) 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.







Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

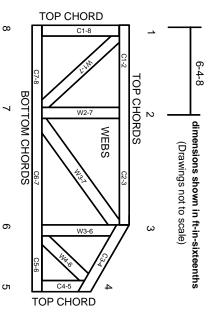
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.