



RE: 210459 Lot 141 HT MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: 210459

Lot/Block: Model:
Address: Subdivision:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE716LowRise Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 59 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	146485483	A5	6/9/2021	21	146485503	E3	6/9/2021
2	146485484	A6	6/9/2021	22	146485504	E4	6/9/2021
3	146485485	A7	6/9/2021	23	146485505	E5	6/9/2021
4	146485486	A8	6/9/2021	24	146485506	E6	6/9/2021
5	146485487	B1	6/9/2021	25	146485507	E7	6/9/2021
6	146485488	B2	6/9/2021	26	146485508	E8	6/9/2021
7	146485489	C1	6/9/2021	27	146485509	E9	6/9/2021
8	146485490	C2	6/9/2021	28	I46485510	E10	6/9/2021
9	I46485491	C3	6/9/2021	29	146485511	E11	6/9/2021
10	146485492	C4	6/9/2021	30	146485512	G1	6/9/2021
11	146485493	C5	6/9/2021	31	146485513	G2	6/9/2021
12	146485494	C6	6/9/2021	32	146485514	H1	6/9/2021
13	146485495	C7	6/9/2021	33	146485515	H2	6/9/2021
14	146485496	C8	6/9/2021	34	146485516	H3	6/9/2021
15	146485497	C9	6/9/2021	35	146485517	J4	6/9/2021
16	146485498	C10	6/9/2021	36	146485518	J5	6/9/2021
17	146485499	D1	6/9/2021	37	146485519	J6	6/9/2021
18	146485500	D2	6/9/2021	38	146485520	J7	6/9/2021
19	146485501	E1	6/9/2021	39	146485521	J8	6/9/2021
20	146485502	E2	6/9/2021	40	146485522	J9	6/9/2021

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2022.

Kansas COA: E-943

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.





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Project Name: 210459

Project Customer: Lot/Block: Address: Subdivision:

City, County: State:

No.	Seal#	Truss Name	Date
41	146485523	J10	6/9/2021
42	146485524	J11	6/9/2021
43	146485525	J12	6/9/2021
44	146485526	J13	6/9/2021
45	146485527	J16	6/9/2021
46	146485528	J17	6/9/2021
47	146485529	J18	6/9/2021
48	146485530	J19	6/9/2021
49	146485531	K1	6/9/2021
50	146485532	K2	6/9/2021
51	146485533	L1	6/9/2021
52	146485534	L2	6/9/2021
53	146485535	L3	6/9/2021
54	146485536	LAY2	6/9/2021
55	146485537	LAY3	6/9/2021
56	146485538	V1	6/9/2021
57	146485539	V2	6/9/2021
58	146485540	V3	6/9/2021
59	146485541	V4	6/9/2021



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11	146485493	C5	6/9/2021	31	I46485513	G2	6/9/2021
12	146485494	C6	6/9/2021	32	I46485514	H1	6/9/2021
13	146485495	C7	6/9/2021	33	I46485515	H2	6/9/2021
14	146485496	C8	6/9/2021	34	I46485516	H3	6/9/2021
15	146485497	C9	6/9/2021	35	146485517	J4	6/9/2021
16	146485498	C10	6/9/2021	36	I46485518	J5	6/9/2021
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19	I46485501	E1	6/9/2021	39	I46485521	J8	6/9/2021
20	146485502	E2	6/9/2021	40	146485522	J9	6/9/2021

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2022.

Missouri COA: 001193

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. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.



June 09, 2021



RE: 210459 - Lot 141 HT

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City, County: State:

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45	146485527	J16	6/9/2021
46	146485528	J17	6/9/2021
47	146485529	J18	6/9/2021
48	146485530	J19	6/9/2021
49	146485531	K1	6/9/2021
50	146485532	K2	6/9/2021
51	146485533	L1	6/9/2021
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57	146485539	V2	6/9/2021
58	146485540	V3	6/9/2021
59	146485541	V4	6/9/2021

Lot 141 HT Job Truss Truss Type Qty 146485483 210459 Α5 Hip Girder Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:21 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-fhCHsN8TR?ZObkjhDx_OKKlvuYo4fzL6p3BQXzz8Hku Wheeler Lumber. Waverly, KS - 66871,

9-0-0

4-0-0

Scale = 1:26.1

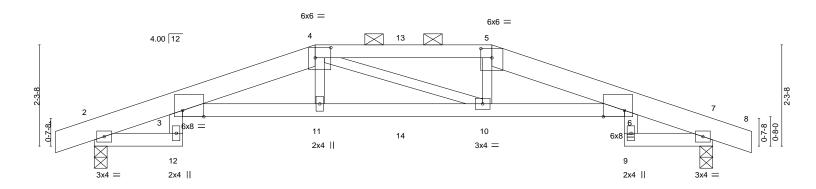
14-10-8

0-10-8

14-0-0

2-0-0

12-0-0



		2-0-0	5-0-0	1	9-0-0	1	1:	2-0-0	14-0-0	
		2-0-0	3-0-0	1	4-0-0	ı	3	3-0-0	2-0-0	1
Plate Offse	ets (X,Y)	[3:0-5-12,Edge], [4:0-4-4	,0-2-12], [5:0-3-0,0-	2-8], [6:0-5-12,Edge]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (lo	oc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.73	Vert(LL)	-0.21 10-	11 >791	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.37 10-	11 >441	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.12	Horz(CT)	0.29	7 n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix-S	Wind(LL)	0.16 10-	11 >999	240	Weight: 56 lb	FT = 10%
					. ,					

TOP CHORD

BOT CHORD

LUMBER-BRACING-

5-0-0

3-0-0

TOP CHORD 2x6 SP DSS *Except* 4-5: 2x4 SPF No.2

-0-10-8

0-10-8

2-0-0

BOT CHORD 2x4 SPF No.2 *Except* 3-6: 2x4 SPF 2100F 1.8E

2x3 SPF No.2 *Except* WEBS 3-12,6-9: 2x4 SPF No.2

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

Max Horz 2=35(LC 8)

Max Uplift 2=-238(LC 4), 7=-238(LC 5) Max Grav 2=1141(LC 1), 7=1141(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-493/113, 3-4=-3349/600, 4-5=-3293/591, 5-6=-3336/584, 6-7=-493/108 TOP CHORD

BOT CHORD 3-11=-558/3284, 10-11=-554/3305, 6-10=-523/3272

4-11=0/309, 5-10=0/335 **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 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) 2=238, 7=238,
- 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) 95 lb down and 67 lb up at 5-0-0, and 95 lb down and 67 lb up at 7-0-0, and 95 lb down and 67 lb up at 9-0-0 on top chord, and 277 lb down and 82 lb up at 5-0-0, and 277 lb down and 82 lb up at 9-0-0 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

GARCIA NUMBER -2000162101 ONALE 16952 ANSAS June 9,2021

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

2-0-0 oc purlins (2-9-8 max.): 4-5.

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

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 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, 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



June 9,2021

Job	Truss	Truss Type	Qty	Ply	Lot 141 HT
		l <u>.</u>			146485483
210459	A5	Hip Girder	1	1	
					Joh Reference (ontional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:21 2021 Page 2 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-fhCHsN8TR?ZObkjhDx_OKKIvuYo4fzL6p3BQXzz8Hku

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

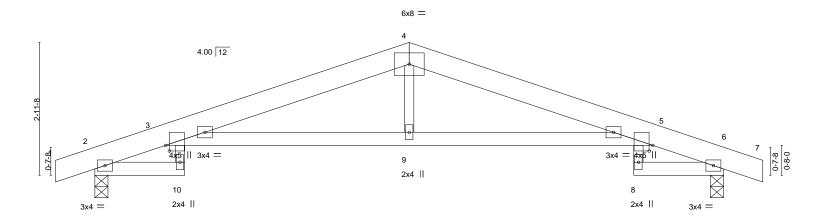
Concentrated Loads (lb)

Vert: 4=-69(F) 5=-69(F) 11=-325(F=-277) 10=-325(F=-277) 13=-69(F) 14=-48



Job Truss Type Lot 141 HT Truss Qty 146485484 210459 A6 Roof Special Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:22 2021 Page 1 Wheeler Lumber. Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-7umg3j95ClhFDultneVdsXr68y9?OQ6F2jx_4Pz8Hkt 14-10-8 12-0-0 14-0-0 -0-10-8 2-0-0 7-0-0 0-10-8 2-0-0 5-0-0 2-0-0 0-10-8

Scale = 1:25.7



	2-0-0			5-0-0					——
Plate Offsets (X,Y)	[3:0-1-8,0-1-0], [5:0-1-8,	0-1-0]							
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 YES PI2014	CSI. TC 0.64 BC 0.60 WB 0.08 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.13 3-9 -0.24 3-9 0.20 6 0.09 3-9	I/defI >999 >673 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 49 lb	GRIP 197/144 FT = 10%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=-46(LC 13)

Max Uplift 2=-130(LC 4), 6=-130(LC 5) Max Grav 2=696(LC 1), 6=696(LC 1)

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

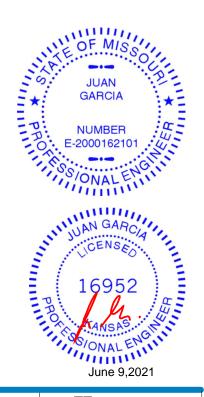
TOP CHORD 2-3=-282/71, 3-4=-1368/140, 4-5=-1368/155, 5-6=-282/62

BOT CHORD 3-9=-94/1298, 5-9=-94/1298

WEBS 4-9=0/262

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) The Fabrication Tolerance at joint 3 = 0%, joint 5 = 0%, joint 3 = 0%, joint 5 = 0%
- 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) 2=130, 6=130.
- 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 4-5-7 oc purlins.

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

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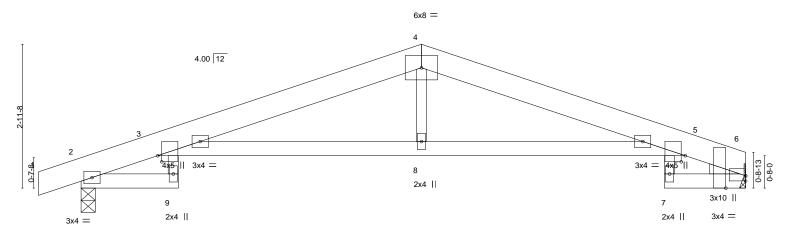
Job	Truss	Truss Type	Qty	Ply	Lot 141 HT
					146485485
210459	A7	Roof Special	1	1	
					Job Reference (optional)
Wheeler Lumber, Wa	verly, KS - 66871,		8	.430 s May	y 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:23 2021 Page 1
		ID:Lek3	CAANj_gY	bKvtCQHt	mQzKvNM-b4J2H39jzcp6r2t4KM0sPINH1MWq7tLPHNgXcrz8Hks
0-10-8	2-0-0	7-0-0	, - 0		12-0-0

5-0-0

5-0-0

Scale = 1:23.7

1-8-0



		2-0-0		7-0-0					2-0-0		13-8-0
		2-0-0		5-0-0				5	5-0-0	1	1-8-0
Plate Offse	ets (X,Y)	[3:0-1-8,0-1-0], [5:0-1-8,0)-1-0], [6:0-0-0	,0-1-4], [6:0-3-1	,Edge]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DE	FL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0	.63 Ver	rt(LL) -0.12	3-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0	.56 Ver	rt(CT) -0.23	3-8	>704	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0	.08 Hoi	rz(CT) 0.18	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-S	S Wir	nd(LL) 0.09	3-8	>999	240	Weight: 47 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

2x3 SPF No.2 WEBS

WEDGE

Right: 2x3 SPF No.2

0-10-8

2-0-0

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=47(LC 8)

Max Uplift 2=-129(LC 4), 6=-82(LC 5) Max Grav 2=688(LC 1), 6=611(LC 1)

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

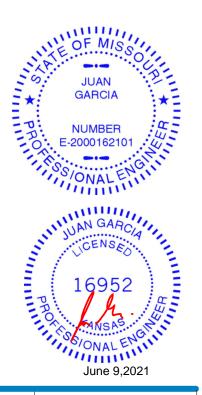
TOP CHORD 2-3=-278/69, 3-4=-1326/142, 4-5=-1329/153, 5-6=-322/62

3-8=-94/1258, 5-8=-94/1258 **BOT CHORD**

WEBS 4-8=0/260

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) The Fabrication Tolerance at joint 3 = 0%, joint 3 = 0%
- 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) 6 except (jt=lb) 2=129.
- 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.



Structural wood sheathing directly applied or 4-6-12 oc purlins.

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



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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



JOD	Truss	Truss Type	Qty	Piy	LOT 141 HT	
						146485486
210459	A8	Common	2	1		
					Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS - 66871,		8	.430 s May	y 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:23 2021	Page 1
		ID:Le	k3CAANj_	gYbKvtCC	HtmQzKvNM-b4J2H39jzcp6r2t4KM0sPINI4MYi7tKPHNgX	crz8Hks
0-10-8		7-0-0		_	13-8-0	

Scale = 1:23.7

6-8-0

13-8-0

Structural wood sheathing directly applied or 5-3-11 oc purlins,

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

except end verticals.

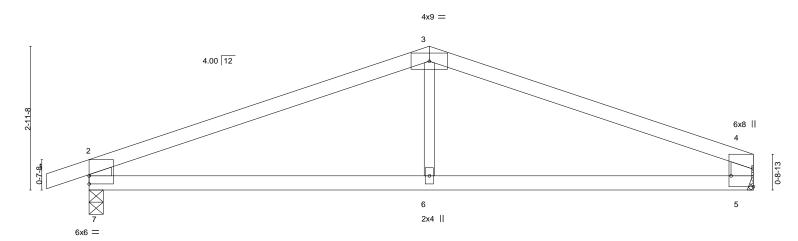


Plate Offset	7-0-0 Plate Offsets (X,Y) [4:Edge,0-5-8], [7:0-0-0,0-2-0]									6-	8-0	'
TCDL BCLL	25.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.56 0.44 0.08	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.06 -0.14 0.02	(loc) 6-7 6-7 5	l/defl >999 >999 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL	10.0	Code IRC2018/TP	12014	Matrix	(-R	Wind(LL)	0.04	6-7	>999	240	Weight: 36 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

0-10-8

3-6: 2x3 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=Mechanical

Max Horz 7=39(LC 8)

Max Uplift 7=-136(LC 4), 5=-85(LC 5) Max Grav 7=675(LC 1), 5=591(LC 1)

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

TOP CHORD 2-3=-915/120, 3-4=-909/120, 2-7=-606/179, 4-5=-510/123

BOT CHORD 6-7=-62/788, 5-6=-62/788

WEBS 3-6=0/264

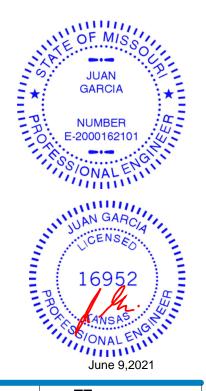
NOTES-

- 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.

7-0-0

7-0-0

- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=136.
- 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.



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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 Lot 141 HT Qty 146485487 210459 В1 Monopitch 5 Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:24 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-3GtQUPAMkwxzSCSGu3X5yywWJmvesGHYV1Q58Iz8Hkr Wheeler Lumber. Waverly, KS - 66871, -0-10-8 8-0-0 0-10-8 8-0-0 Scale = 1:19.7 5x12 M18SHS = 3

4.00 12 3-3-8 3x4 = 3x10 || 2 1-0-0 0-7-8 4x5 || 3x6 =

8-0-0

BOT CHORD

0-6-0 7-6-0 Plate Offsets (X,Y)--[2:0-1-11,Edge], [2:0-0-4,0-0-6], [4:Edge,0-3-8] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d Plate Grip DOL 197/144 **TCLL** 25.0 1.15 TC 0.34 Vert(LL) -0.062-4 >999 360 MT20 10.0 Lumber DOL 1.15 BC 0.33 240 M18SHS 197/144 TCDL Vert(CT) -0.122-4 >789 **BCLL** 0.0 Rep Stress Incr YES WB 0.36 Horz(CT) -0.01 6 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.02 2-4 >999 240 Weight: 31 lb FT = 10%

LUMBER-**BRACING-**TOP CHORD

0-6-0

TOP CHORD 2x6 SPF No.2 BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 WEBS

OTHERS 2x4 SPF No.2 WEDGE

Left: 2x3 SPF No.2

REACTIONS. (size) 2=0-3-8, 6=Mechanical

Max Horz 2=97(LC 8)

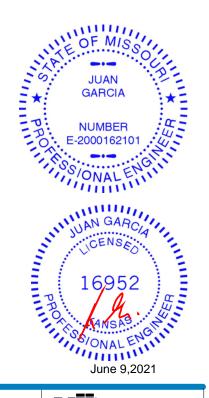
Max Uplift 2=-92(LC 4), 6=-77(LC 8) Max Grav 2=426(LC 1), 6=313(LC 1)

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

TOP CHORD 2-3=-278/6, 3-5=-305/220

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) All plates are MT20 plates unless otherwise indicated.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 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 6-0-0 oc purlins,

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

except end verticals.



Lot 141 HT Job Truss Truss Type Qty 146485488 210459 B2 Monopitch 3 Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:24 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-3GtQUPAMkwxzSCSGu3X5yywVZmyrsLuYV1Q58Iz8Hkr Wheeler Lumber. Waverly, KS - 66871, -0-10-8 6-1-8 8-0-0 0-10-8 6-1-8 Scale = 1:19.2

4x9 = 4.00 12 3 2-8-0 3x4 = 8 0-7-8 3x6 II 3x6 ||

		0-6-0				5-7-8							
Plate Offsets (X,Y) [3:0-5-8,Edge], [5:Edge,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	0.39	Vert(LL	-0.02	5-6	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(C) -0.05	5-6	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(C	· Γ) -0.00	8	n/a	n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(L	_) 0.01	5-6	>999	240	Weight: 21 lb	FT = 10%	

BOT CHORD

6-1-8

LUMBER-**BRACING-**TOP CHORD

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

2x3 SPF No.2 *Except* 2-6: 2x6 SPF No.2

OTHERS 2x4 SPF No.2

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

Max Horz 6=113(LC 5)

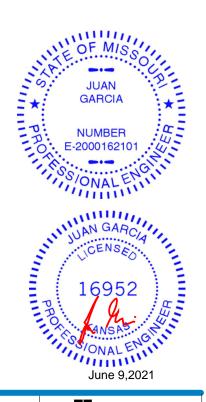
Max Uplift 6=-63(LC 4), 8=-130(LC 8) Max Grav 6=318(LC 1), 8=413(LC 1)

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

0-6-0

TOP CHORD 2-6=-278/108

- 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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=130.
- 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.

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Truss Type Job Truss Qty Lot 141 H7 146485489 210459 C₁ Roof Special Supported Gable Job Reference (optional)

Wheeler Lumber. Waverly, KS - 66871,

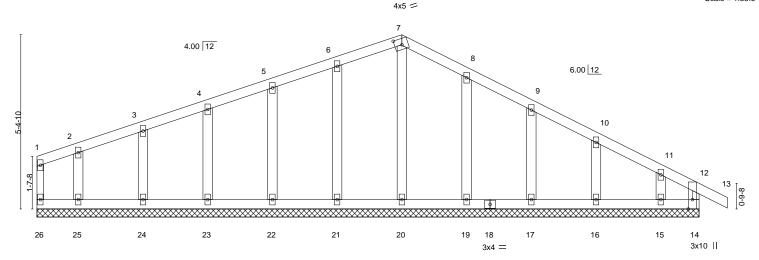
11-3-5

11-3-5

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:25 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-XTRoilB_VD3p4M1SSn3KUATIGAKOboEikh9ehkz8Hkq

20-5-8 21-4-0 0-10-8

Scale = 1:35.6



20-5-8 Plate Offsets (X,Y)--[7:0-2-11,0-2-4] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d Vert(LL) **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.07 -0.00120 197/144 13 n/r MT20 Lumber DOL BC TCDL 10.0 1.15 0.04 Vert(CT) -0.0013 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.06 Horz(CT) 0.00 14 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 83 lb FT = 10%

20-5-8

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals. 2x3 SPF No.2 WEBS **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **OTHERS** 2x4 SPF No.2

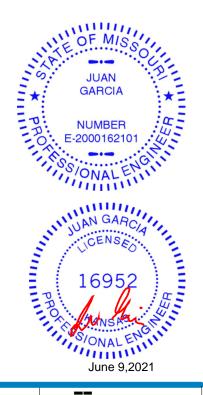
REACTIONS. All bearings 20-5-8

(lb) - Max Horz 26=84(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 26, 14, 21, 22, 23, 24, 25, 19, 17, 16, 15 Max Grav All reactions 250 lb or less at joint(s) 26, 14, 20, 21, 22, 23, 24, 25, 19, 17, 16, 15

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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 26, 14, 21, 22, 23, 24, 25, 19, 17, 16, 15,
- 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.





Truss Type Lot 141 HT Job Truss Qty 146485490 210459 C2 Roof Special Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:27 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-TrZZ6RDE0rJXJfBrZC5oZbYxazsN3cV?C?ellcz8Hko Wheeler Lumber. Waverly, KS - 66871,

11-3-5

5-5-7

16-9-15 20-5-8 21-4-0 0-10-8

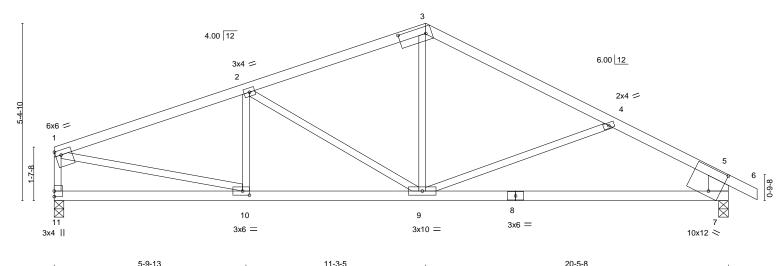
Structural wood sheathing directly applied or 4-7-1 oc purlins,

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

except end verticals.

Scale = 1:35.0





		5-9-13			5-5-7					9-2-	3		
_Plate Off	sets (X,Y)	[1:0-2-0,0-1-12], [3:0-9-13,	0-2-8], [7:0-	4-1,0-8-2], [10):0-2-8,0-1-8	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	0.72	Vert(LL)	-0.17	7-9	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.33	7-9	>721	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	7	n/a	n/a			
BCDL	10.0	Code IRC2018/TPI	2014	Matrix	x-S	Wind(LL)	0.05	9-10	>999	240	Weight: 73 lb	FT = 10%	

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 *Except*

3-6: 2x4 SPF 2100F 1.8E 2x4 SPF No.2

5-9-13 5-9-13

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

5-7: 2x8 SP DSS

REACTIONS. (size) 11=0-3-8, 7=0-3-8

Max Horz 11=86(LC 7)

Max Uplift 11=-130(LC 4), 7=-130(LC 9) Max Grav 11=900(LC 1), 7=987(LC 1)

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

TOP CHORD 1-2=-1319/196, 2-3=-1034/150, 3-4=-1083/158, 4-5=-1296/210, 1-11=-841/160,

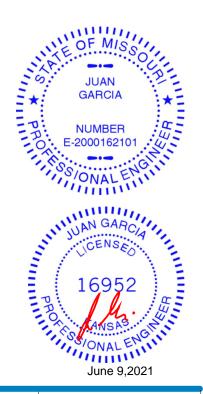
5-7=-889/178

BOT CHORD 9-10=-159/1198, 7-9=-128/1046

WEBS 2-9=-388/153, 3-9=-0/409, 1-10=-141/1142

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) except (jt=lb) 11=130 7=130
- 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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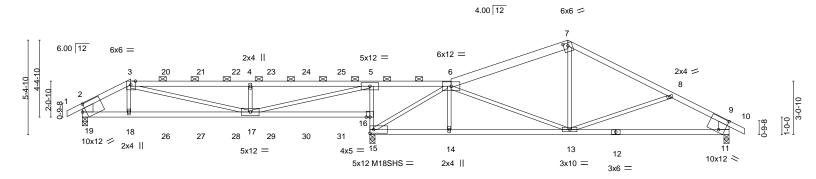
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Lot 141 HT Job Truss Truss Type Qty Ply 146485491 210459 C3 Roof Special Girder Job Reference (optional) Waverly, KS - 66871, Wheeler Lumber.

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:29 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-QEhJX6EUYSZFZzKEhc7Gf0dGEnV3XOzHfJ7sqVz8Hkm 21-0-0 27-7-13 33-5-7 36-10-0 37-8-8 0-10-8 -Q-10₇8 2-9-0 9-6-12 16-4-8 2-9-0 6-9-12 6-9-12 5-9-10 3-4-9

Scale = 1:65.6



	2-9-0	9-6-12		16-4-8	16 _⊺ 6-4	21-0-0	27-7-13	1	33-5-7	36-10-0
	2-9-0	6-9-12		6-9-12	0-1 12	4-5-12	6-7-13		5-9-10	3-4-9
Plate Offse	ets (X,Y)	[3:0-3-3,Edge], [7:0-3-0,0-	1-15], [11:0-4	-1,0-8-2], [19	9:0-2-7,0-4-14]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I	l/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.17 17-18 >	>999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.33 17-18 >	>597 240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	-0.03 15	n/a n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matrix	x-S	Wind(LL)	0.14 17-18 >	>999 240	Weight: 133 I	b FT = 10%

BRACING-

TOP CHORD

BOT CHORD

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

6-7: 2x6 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except*

16-19: 2x4 SPF 2100F 1.8E, 5-15: 2x3 SPF No.2

2x3 SPF No.2 *Except* WEBS

2-19,9-11: 2x8 SP DSS

REACTIONS. (size) 19=0-3-8, 15=0-3-8, 11=0-3-8

Max Horz 19=-90(LC 9)

Max Uplift 19=-267(LC 8), 15=-363(LC 8), 11=-153(LC 30) Max Grav 19=1130(LC 21), 15=2021(LC 1), 11=939(LC 1)

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

TOP CHORD 2-3=-1539/336, 3-4=-2338/540, 4-5=-2335/538, 5-6=-6/261, 6-7=-950/181, 7-8=-1014/170, 8-9=-1214/249, 2-19=-960/220, 9-11=-846/199

BOT CHORD 18-19=-280/1287, 17-18=-283/1276, 15-16=-1299/314, 5-16=-1187/356, 14-15=-189/903,

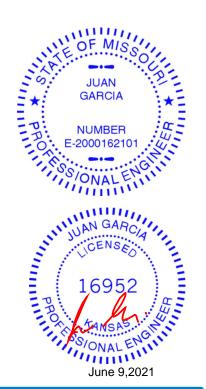
13-14=-192/898. 11-13=-163/976

WFBS 3-18=0/281, 3-17=-265/1096, 4-17=-707/334, 5-17=-552/2638, 6-15=-1340/172,

7-13=0/348

- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=267, 15=363, 11=153,
- 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) 100 lb down and 68 lb up at 4-8-2, 100 lb down and 68 lb up at 6-8-2, 100 lb down and 68 lb up at 8-8-2, 100 lb down and 68 lb up at 10-8-2, and 100 lb down and 68 lb up at 12-8-2, and 100 lb down and 68 lb up at 14-8-2 on top chord, and 217 lb down and 84 lb up at 2-9-0, 33 lb down at 4-8-2, 33 lb down at 6-8-2, 33 lb down at 8-8-2, 33 lb down at 10-8-2, and 33 lb down at 12-8-2, and 33 lb down at 14-8-2 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

CIANTIMUTE CONTROL ASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)



Structural wood sheathing directly applied or 4-9-13 oc purlins,

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

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

6-0-0 oc bracing: 16-17

3-2-4 oc bracing: 15-16.

\Lambda 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 141 HT	\neg
	00				I46485491	П
	C3	Roof Special Girder	1	1		
		I	1	1	Job Reference (ontional)	

Wheeler Lumber.

Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:29 2021 Page 2 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-QEhJX6EUYSZFZzKEhc7Gf0dGEnV3XOzHfJ7sqVz8Hkm

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, 3-6=-70, 6-7=-70, 7-9=-70, 9-10=-70, 16-19=-20, 11-15=-20

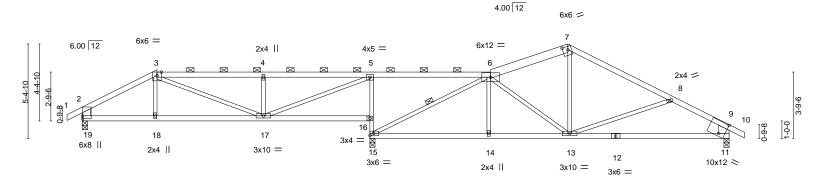
Concentrated Loads (lb)

Vert: 18=-217(B) 20=-50(B) 21=-50(B) 22=-50(B) 23=-50(B) 24=-50(B) 25=-50(B) 26=-24(B) 27=-24(B) 28=-24(B) 29=-24(B) 30=-24(B) 31=-24(B)

Job Truss Truss Type Qty Lot 141 H7 146485492 210459 C4 Roof Special Job Reference (optional) Wheeler Lumber. Waverly, KS - 66871, 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:30 2021 Page 1

				ID:Lek3CAANj_gYbKvt	CQHtmQzKvNM-uQI	EhlSF6Jmh6A7vQFKeVBDA	TaBvOGtDR	uztPMxz8Hk
-Q-10 ₇ 8	4-3-0	10-3-12	16-4-8	23-3-0	27-7-13	33-5-7	36-10-0	37-8-8
0-10-8	4-3-0	6-0-12	6-0-12	6-10-8	4-4-13	5-9-10	3-4-9	0-10-8

Scale = 1:65.6



	4-3-	0	10-3-12	1	16-4-8	16 ₁ 6-4	21-10-10	27-7-13	3	36-10-0	
	4-3-	0 '	6-0-12	ı	6-0-12	0-1 ⁻¹ 12	5-4-6	5-9-3		9-2-3	1
Plate Offse	ets (X,Y)	[7:0-3-8	3,0-2-4], [11:0-4-1,	0-8-2]							
LOADING	(psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l	/defl L/d	PLATES	GRIP
TCLL	25.0	F	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.16 11-13 >	999 360	MT20	197/144
TCDL	10.0	L	umber DOL	1.15	BC	0.56	Vert(CT)	-0.32 11-13 >	758 240		
BCLL	0.0 *		Rep Stress Incr	YES	WB	0.71	Horz(CT)	-0.04 15	n/a n/a		
BCDL	10.0	(Code IRC2018/TF	12014	Mati	rix-S	Wind(LL)	0.06 17-18 >	999 240	Weight: 132 lb	FT = 10%

LUMBER-TOP CHORD

2x4 SPF No.2 *Except* 6-7: 2x6 SPF No.2, 7-10: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

5-15: 2x3 SPF No.2

2x3 SPF No.2 *Except* WEBS

2-19: 2x6 SPF No.2, 9-11: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-13 max.): 3-6.

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

6-0-0 oc bracing: 16-17 4-0-1 oc bracing: 15-16.

WEBS 1 Row at midpt 6-15

REACTIONS. (size) 19=0-3-8, 15=0-3-8, 11=0-3-8

Max Horz 19=-90(LC 9)

Max Uplift 19=-150(LC 8), 15=-285(LC 8), 11=-144(LC 9) Max Grav 19=763(LC 21), 15=1725(LC 1), 11=944(LC 1)

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

TOP CHORD 2-3=-974/180, 3-4=-1039/223, 4-5=-1037/222, 6-7=-942/168, 7-8=-1016/139,

8-9=-1224/234, 2-19=-675/164, 9-11=-848/191

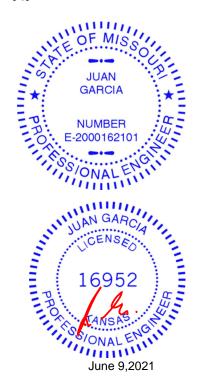
BOT CHORD 18-19=-125/792, 17-18=-128/791, 15-16=-1053/257, 5-16=-988/287, 14-15=-93/1034,

13-14=-95/1030 11-13=-151/986

WFBS 3-17=-96/267, 4-17=-455/188, 5-17=-231/1305, 6-15=-1334/153, 6-13=-302/103,

7-13=0/387

- 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) 19=150, 15=285, 11=144.
- 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.



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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

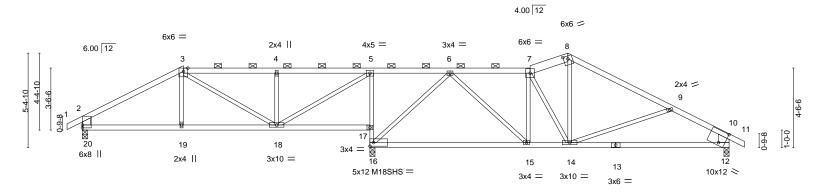


Job Truss Type Lot 141 HT Truss Qty Ply 146485493 210459 C5 Roof Special Job Reference (optional) Wheeler Lumber.

Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:31 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-Mco3yoGl43pzoHUco19kkRieFaDR?Hva6dcyuOz8Hkk 27-7-13 36-10-0 -0-10-8 0-10-8 11-0-12 16-4-8 20-11-4 25-6-0 33-5-7 37-8-8 0-10-8 5-9-0 5-3-12 5-3-12 4-6-12 4-6-12 2-1-13 5-9-10 3-4-9

Scale = 1:65.6



		5-9-0	11-0	0-12	16-4-8		25-6	-0	27-7-	13	36-10-0	
	1	5-9-0	5-3	3-12	5-3-12	0-1 ^{'-} 12	8-11-	12	1 2-1-1	13 '	9-2-3	ı.
Plate Offse	ts (X,Y)	[8:0-3-0,0-1-15]], [12:0-4-1	1,0-8-2]								
LOADING	(psf)	SPACIN	G-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Gr	ip DOL	1.15	TC	0.68	Vert(LL)	-0.19 15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber	DOL	1.15	BC	0.64	Vert(CT)	-0.39 15-16	>614	240	M18SHS	197/144
BCLL	0.0 *	Rep Stre	ess Incr	YES	WB	0.94	Horz(CT)	-0.04 16	n/a	n/a		
BCDL	10.0	Code IR	C2018/TF	PI2014	Matri	x-S	Wind(LL)	0.05 18-19	>999	240	Weight: 136 lb	FT = 10%

BOT CHORD

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

7-8: 2x6 SPF No.2, 8-11: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except* 5-16: 2x3 SPF No.2

2x3 SPF No.2 *Except* WEBS

2-20: 2x6 SPF No.2, 10-12: 2x8 SP DSS

REACTIONS. (size) 20=0-3-8, 16=0-3-8, 12=0-3-8

Max Horz 20=-90(LC 9)

Max Uplift 20=-154(LC 8), 16=-277(LC 8), 12=-147(LC 9) Max Grav 20=776(LC 21), 16=1706(LC 1), 12=953(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 2-3=-956/186, 3-4=-764/199, 4-5=-762/197, 6-7=-994/162, 7-8=-921/174, TOP CHORD

8-9=-1032/147, 9-10=-1236/239, 2-20=-699/188, 10-12=-855/194

19-20=-111/760, 18-19=-113/758, 16-17=-941/211, 5-17=-878/236, 15-16=-73/608, 14-15=-55/998, 12-14=-155/996

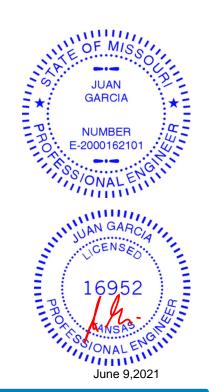
WFBS 4-18=-411/173, 5-18=-182/1016, 6-16=-1000/175, 6-15=0/532, 7-14=-365/86,

8-14=-25/415

NOTES-

BOT CHORD

- 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 20=154, 16=277, 12=147.
- 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 4-11-5 oc purlins,

except end verticals, and 2-0-0 oc purlins (5-6-14 max.): 3-7.

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

6-0-0 oc bracing: 17-18

4-4-0 oc bracing: 16-17.



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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

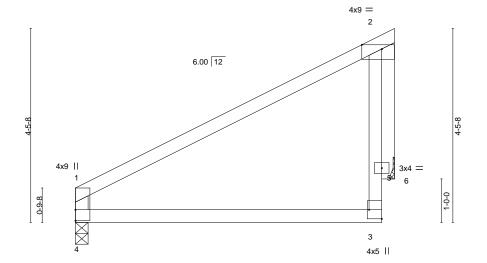


Job Truss Truss Type Lot 141 HT Qty 146485494 210459 C6 Monopitch Job Reference (optional)

Wheeler Lumber. Waverly, KS - 66871, 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:31 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-Mco3yoGl43pzoHUco19kkRigaaJm?QEa6dcyuOz8Hkk

7-4-0

Scale = 1:26.5



7-4-0 7-4-0

Plate Offsets (X,Y)	[2:0-5-8,Edge], [3:Edge,0-3-8]			
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.53 BC 0.30	DEFL. in (loc) l/defl L/d Vert(LL) -0.05 3-4 >999 360 Vert(CT) -0.10 3-4 >822 240	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.34 Matrix-R	Horz(CT) -0.01 6 n/a n/a Wind(LL) 0.04 3-4 >999 240	Weight: 26 lb FT = 10%

LUMBER-

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

OTHERS 2x4 SPF No.2 **BRACING-**

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

except end verticals.

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

REACTIONS. (size) 4=0-3-8, 6=Mechanical

Max Horz 4=113(LC 8)

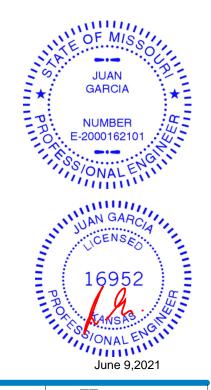
Max Uplift 4=-18(LC 8), 6=-96(LC 8) Max Grav 4=320(LC 1), 6=288(LC 1)

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

TOP CHORD

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, 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.





Truss Type Job Truss Qty Lot 141 HT 146485495 210459 C7 Roof Special Girder Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:32 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-qpMRA8GNrNyqQR3oMlhzGeFtb_cOkvbkLHMWQqz8Hkj Wheeler Lumber. Waverly, KS - 66871, -0-10-8 9-4-0 2-0-0 6-0-0 0-10-8 2-0-0 Scale = 1:21.9 2x4 || 5 6x6 = 4x5 = 6.00 12 1-7-13 1-7-13

			2-0-0 2-0-0	+		6-0-0 4-0-0			-		9-4-0 3-4-0		
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0	SPACING Plate Gri Lumber I Rep Stre	DOL DOL	2-0-0 1.15 1.15 NO	CSI. TC BC WB	0.38 0.47 0.21	,	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.19 0.01	(loc) 6-7 6-7	l/defl >999 >565 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL 10.0	-1	C2018/TPI	-	Matri		1	Wind(LL)	0.02	6-7	>999	240	Weight: 36 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

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

0-9-8

4-5: 2x6 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 *Except* WEBS

2-8: 2x4 SPF No.2

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

Max Horz 8=133(LC 5)

Max Uplift 6=-95(LC 8), 8=-129(LC 8) Max Grav 6=404(LC 1), 8=482(LC 1)

4x9

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

TOP CHORD 2-3=-560/94, 3-4=-442/103, 2-8=-434/91

BOT CHORD 7-8=-112/449, 6-7=-171/582

WEBS 4-6=-618/222

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

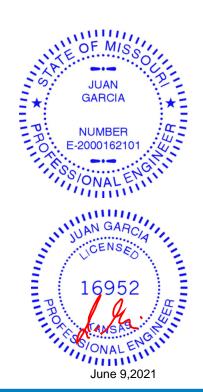
7.3x4 =

- 2) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 8=129.
- 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) 92 lb down and 95 lb up at 2-0-0 on top chord, and 7 lb down and 5 lb up at 2-0-0 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

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, 6-8=-20



6 3x6 =

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.

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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Job Truss Truss Type Qty Ply Lot 141 HT 146485495 210459 C7 Roof Special Girder Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:32 2021 Page 2 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-qpMRA8GNrNyqQR3oMlhzGeFtb_cOkvbkLHMWQqz8Hkj

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 7=3(F)



Job Truss Type Lot 141 HT Truss Qty 146485496 210459 C8 Roof Special Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:33 2021 Page 1 Wheeler Lumber. Waverly, KS - 66871, ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-I?wqNUH?ch4h1ae?wSCCpso3PO?WTOgtax53zGz8Hki -0-10-8 4-0-0 8-0-0 9-4-0 0-10-8 4-0-0 Scale = 1:21.9 2x4 || 5 6x6 = 4x5 = 6.00 12 0-9-8 6 7.3x4 =3x4 = 4x9 4-0-0 8-0-0 9-4-0 4-0-0 4-0-0 LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 I/defl L/d in (loc) TCLL 25.0 Plate Grip DOL TC Vert(LL) >999 360 MT20 197/144 1.15 0.32 -0.03 6-7

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.07

0.00

0.01

6-7

6-7

6

>999

>999

n/a

240

n/a

240

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.

Weight: 34 lb

FT = 10%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2 *Except* 4-5: 2x6 SPF No.2

10.0

10.0

0.0

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

2-8: 2x4 SPF No.2

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

Max Horz 8=133(LC 5)

Max Uplift 6=-85(LC 8), 8=-91(LC 8) Max Grav 6=405(LC 1), 8=484(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 2-3=-506/78, 3-4=-391/102, 2-8=-433/110

BOT CHORD 7-8=-63/388 WEBS 4-6=-405/130

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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

BC

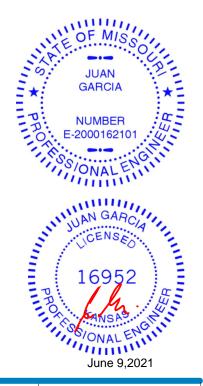
WB

Matrix-S

0.22

0.09

- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8.
- 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.





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 Type Lot 141 HT Truss Qty 146485497 210459 C9 Half Hip Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:34 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-mBUCaqldN_CYfkDBUAjRM3K6colSCmz0pbrdViz8Hkh Wheeler Lumber. Waverly, KS - 66871, -0-10-8 14-4-0 7-3-0 7-3-0 Scale = 1:28.5 6x6 =3x6 || \boxtimes \boxtimes \times ▼ 6.00 12 1-5-0 1-3-6 6 5 2x4 | 3x6 = 6x8 || 7-3-0 14-4-0 7-1-0 7-3-0 Plate Offsets (X,Y)--[4:Edge,0-2-8] LOADING (psf) SPACING-CSI. DEFL. I /d **PLATES** GRIP 2-0-0 in (loc) I/defl **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.80 Vert(LL) -0.08 5-6 >999 360 197/144 MT20 10.0 0.43 TCDL Lumber DOL 1.15 BC Vert(CT) -0.155-6 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.41 Horz(CT) 0.01 5 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.02 6-7 >999 240 Weight: 48 lb FT = 10%LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. 2x3 SPF No.2 *Except* WEBS **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 2-7: 2x6 SPF No.2 **WEBS** 1 Row at midpt REACTIONS. (size) 5=Mechanical, 7=0-3-8 Max Horz 7=174(I C 5) Max Uplift 5=-113(LC 5), 7=-101(LC 8)

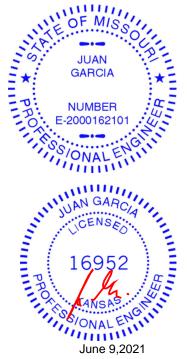
Max Grav 5=627(LC 1), 7=710(LC 1)

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

TOP CHORD 2-3=-796/72, 2-7=-646/151 **BOT CHORD** 6-7=-130/607, 5-6=-133/603 WEBS 3-6=0/314, 3-5=-663/108

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) 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) 5=113 7=101
- 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.





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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 Type Lot 141 HT Truss Qty 146485498 210459 C10 Half Hip Job Reference (optional) Waverly, KS - 66871, 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:26 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-?f?Av5CcFXBgiWcf0UaZ1N?pQZZcK3orzLvBDAz8Hkp Wheeler Lumber. 0-10-8 8-9-0 14-4-0 4-2-0 4-2-0 4-7-0 Scale: 3/8"=1 6x6 = 2x4 || 6.00 12 2x4 > 3 5-2-0 7 8 6x8 || 3x4 = 3x4 =8-9-0

		8-9-0	5-7-0					
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	BC 0.49 Vert(CT) - WB 0.81 Horz(CT)	in (loc) I/defl L/d PLATES 0.12 7-8 >999 360 MT20 0.24 7-8 >707 240 0.01 6 n/a n/a	GRIP 197/144				
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S Wind(LL)	0.02 6-7 >999 240 Weight: 53 lb	FT = 10%				

BOT CHORD

14-4-0

Structural wood sheathing directly applied or 5-4-1 oc purlins,

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

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

LUMBER-**BRACING-**TOP CHORD

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

2-8: 2x6 SPF No.2

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

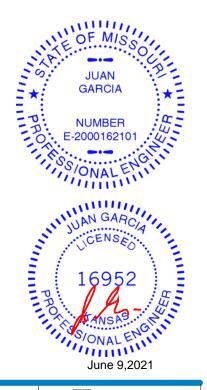
Max Horz 8=205(LC 5) Max Uplift 6=-110(LC 5), 8=-108(LC 8) Max Grav 6=627(LC 1), 8=710(LC 1)

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

TOP CHORD 2-3=-842/157, 3-4=-584/80, 2-8=-621/153

BOT CHORD 7-8=-178/670, 6-7=-107/475 WEBS 4-7=0/351, 4-6=-616/85

- 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) 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) 6=110, 8=108,
- 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.



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 Lot 141 HT Qty 146485499 210459 D1 Common Supported Gable Job Reference (optional)

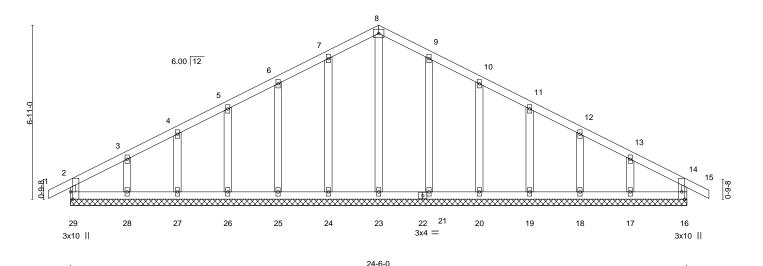
Wheeler Lumber. Waverly, KS - 66871,

0-10-8

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:35 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-FO2aoAJF8IKPHuoN1tEguHtSfCkmxltA1FaA19z8Hkg 24-6-0 25-4-8 0-10-8

4x5 =

Scale = 1:45.8



24-6-0 Plate Offsets (X,Y)-[29:0-3-8,Edge] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.08 Vert(LL) -0.0015 120 197/144 n/r MT20 10.0 Lumber DOL BC 0.04 TCDL 1.15 Vert(CT) -0.0015 n/r 120 BCLL 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.00 16 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 108 lb FT = 10%

LUMBER-**BRACING-**

12-3-0 12-3-0

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals. 2x3 SPF No.2 WEBS **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 24-6-0.

(lb) - Max Horz 29=105(LC 7)

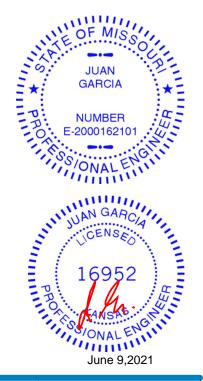
2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 29, 16, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17 Max Grav All reactions 250 lb or less at joint(s) 29, 16, 23, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17

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

OTHERS

- 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 16, 24, 25, 26, 27, 28, 21, 20, 19, 18, 17,
- 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 Lot 141 HT Qty 146485500 210459 D2 Common Job Reference (optional)

Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:36 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-jacy?WKtvcSGu2NabblvRUQTibuwgjKJGvKjZbz8Hkf 24-6-0 0-10-8 5-0-14 12-3-0 19-5-3 25-4-8 0-10-8 5-0-14 5-0-13 7-2-3

> Scale = 1:45.3 4x9 =

> > Structural wood sheathing directly applied or 3-11-15 oc purlins,

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

except end verticals.

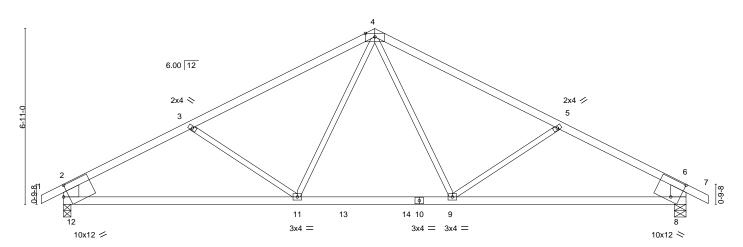


Plate Offsets (X,Y)	9-2-6 9-2-6 [8:0-4-1,0-8-2], [12:0-2-7,0-4-14]		15-3-10 6-1-3	+	24-6-0 9-2-6	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.76 BC 0.81 WB 0.23 Matrix-S	Vert(CT) -0.35 Horz(CT) 0.05			GRIP 197/144 FT = 10%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

Wheeler Lumber.

2-12,6-8: 2x8 SP DSS

REACTIONS. (size) 12=0-3-8, 8=0-5-8 Max Horz 12=109(LC 7)

Max Uplift 12=-160(LC 8), 8=-160(LC 9) Max Grav 12=1191(LC 2), 8=1191(LC 2)

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

TOP CHORD 2-3=-1665/262, 3-4=-1432/184, 4-5=-1432/184, 5-6=-1665/262, 2-12=-1050/207,

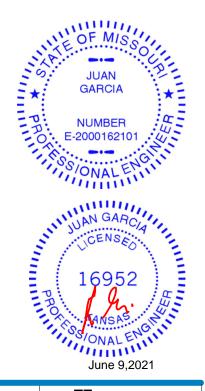
6-8=-1050/207

BOT CHORD 11-12=-258/1398, 9-11=-39/1048, 8-9=-164/1384

WEBS 4-9=-45/443, 5-9=-332/243, 4-11=-45/443, 3-11=-332/243

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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=160, 8=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.





Truss Truss Type Lot 141 HT Job Qty 146485501 210459 E1 GABLE Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber.

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:37 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-BmAKDrKVgva7WCym9IG8ziyfi?HQP7ETVY3H61z8Hke 14-9-0 21-11-8 29-4-8 7-6-9 7-6-9 7-2-8

4x9 =

Scale = 1:55.4

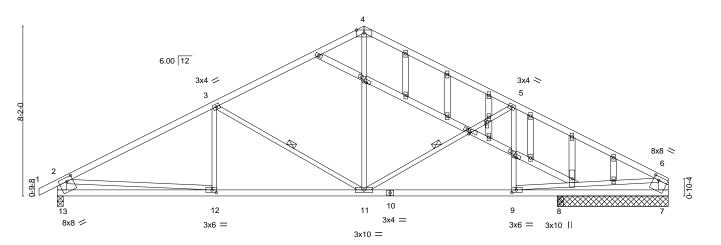
Structural wood sheathing directly applied or 3-3-7 oc purlins,

3-11, 5-11

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

except end verticals.

1 Row at midpt



_	7-6-9	14-9-0	21-11-8	24-4-0	29-4-8
	7-6-9	7-2-8	7-2-8	2-4-8	5-0-8
Plate Offsets (X,Y)	[6:0-3-0,0-2-0], [9:0-2-8,0-1-8], [12:0-	-2-8,0-1-8], [13:0-3-8,0-2-4], [15:0-1-1	0,0-0-4], [16:0-0-3,0-1-4], [17:0)-1-10,0-0-4], [25:0-	-1-12,0-0-4]
LOADING (psf)	SPACING- 2-0-0		EFL. in (loc) I/defl		PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15		ert(LL) -0.12 9-11 >999		MT20 197/144
TCDL 10.0	Lumber DOL 1.15		ert(CT) -0.26 9-11 >999		
BCLL 0.0 *	Rep Stress Incr YES	- 1	orz(CT) 0.05 7 n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S W	ind(LL) 0.08 9-11 >999	240	Weight: 140 lb FT = 10%

TOP CHORD

BOT CHORD

WEBS

LUMBER-**BRACING-**

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

2x3 SPF No.2 *Except* 2-13,6-7: 2x6 SPF No.2, 14-15,15-16,16-17,17-18: 2x4 SPF No.2

OTHERS 2x4 SPF No.2

(size) 7=5-4-0, 13=0-3-8, 8=0-3-8

Max Horz 13=129(LC 7)

Max Uplift 7=-171(LC 9), 13=-190(LC 8)

Max Grav 7=1132(LC 1), 13=1345(LC 1), 8=206(LC 3)

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

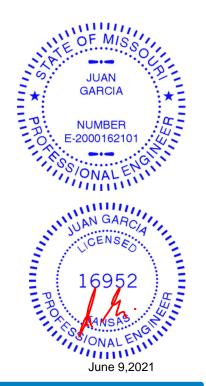
TOP CHORD 2-3=-2010/261, 3-4=-1427/238, 4-5=-1429/241, 5-6=-1828/267, 2-13=-1270/231,

6-7=-1116/206

BOT CHORD 12-13=-285/603, 11-12=-261/1695, 9-11=-165/1544, 8-9=-92/271, 7-8=-92/271 WEBS 3-11=-657/235, 4-11=-59/710, 5-11=-509/247, 2-12=-12/1095, 6-9=-79/1278

REACTIONS.

- 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 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) except (jt=lb) 7=171, 13=190.
- 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.





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





Waverly, KS - 66871, Wheeler Lumber.



4x9 =

Scale = 1:54 6

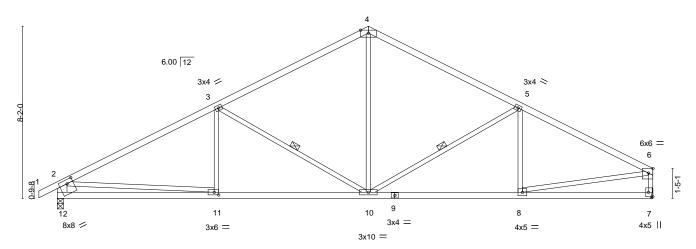
Structural wood sheathing directly applied or 3-6-13 oc purlins,

3-10, 5-10

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

except end verticals.

1 Row at midpt



	L	7-6-9	1		14-9-0	1	21.	-11-7		28-2-14	
		7-6-9	ı		7-2-8		7	-2-6		6-3-8	
Plate Offse	ets (X,Y)	[6:0-2-8,Edge], [7:Edge,0-2	-8], [11:0-2-	8,0-1-8], [12	:0-3-8,0-2-4]						
LOADING TCLL TCDL	(psf) 25.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.65 0.54	DEFL. Vert(LL) Vert(CT	in (lo -0.09 10- -0.18 10-	11 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TPI2	YES	WB Matri	0.49	Horz(C) Wind(LL	0.05	7 n/a	n/a 240	Weight: 108 lb	FT = 10%

TOP CHORD

BOT CHORD

WEBS

LUMBER-**BRACING-**

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

2-12: 2x6 SPF No.2

(size) 12=0-3-8, 7=Mechanical Max Horz 12=143(LC 7)

Max Uplift 12=-184(LC 8), 7=-150(LC 9) Max Grav 12=1335(LC 1), 7=1254(LC 1)

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

TOP CHORD 2-3=-1991/250, 3-4=-1401/220, 4-5=-1401/228, 5-6=-1765/217, 2-12=-1261/225,

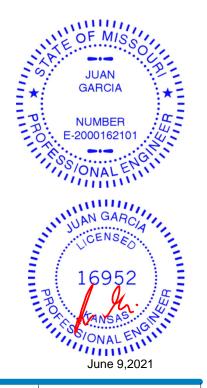
BOT CHORD 11-12=-286/599, 10-11=-252/1678, 8-10=-143/1507

WEBS 3-10=-661/235, 4-10=-47/681, 5-10=-492/207, 2-11=-0/1083, 6-8=-112/1420

NOTES-

REACTIONS.

- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=184 7=150
- 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.



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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 Type Lot 141 HT Truss Qty Ply 146485503 210459 E3 Common Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:41 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-3YPr2DN0j84Y?pFXO8L48Y7LXcfELwT2QA1UFoz8Hka Waverly, KS - 66871, Wheeler Lumber. 14-9-0 21-11-7 7-6-9 28-2-14 7-6-9 7-2-8 6-3-8 Scale = 1:52 8 4x9 = 6.00 12 3x4 / 3x4 > 2 8-2-0 6x6 = 5 8x8 / 1-5-1 0-9-8 T 8 9 11 10 7 6 3x10 = 3x4 =4x5 3x6 = 4x5 = 7-6-9 14-9-0 21-11-7 28-2-14 7-6-9 7-2-8 7 - 2 - 66-3-8 [1:0-3-8,0-2-4], [5:0-2-8,Edge], [6:Edge,0-2-8], [10:0-2-8,0-1-8] Plate Offsets (X,Y)-LOADING (psf) SPACING-2-0-0 CSI. DEFL. I /d **PLATES** GRIP in (loc) I/defl Vert(LL) **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.69 -0.099-10 >999 360 197/144 MT20 1.15 BC 0.55 240 TCDL 10.0 Lumber DOL Vert(CT) -0.199-10 >999 BCLL 0.0 Rep Stress Incr YES WB 0.49 Horz(CT) 0.04 6 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.04 9-10 >999 240 Weight: 106 lb FT = 10%LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals. 2x3 SPF No.2 *Except* **WEBS BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 1-11: 2x6 SPF No.2 **WEBS** 1 Row at midpt 2-9, 4-9 REACTIONS. (size) 11=Mechanical, 6=Mechanical Max Horz 11=113(LC 7) Max Uplift 11=-16(LC 8), 6=-11(LC 9) Max Grav 11=1256(LC 1), 6=1256(LC 1)

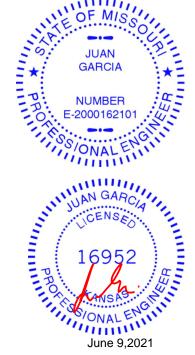
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1997/42, 2-3=-1406/69, 3-4=-1403/74, 4-5=-1768/35, 1-11=-1181/57,

BOT CHORD 10-11=-93/455, 9-10=-41/1694, 7-9=0/1510

WEBS 2-9=-676/115, 3-9=0/690, 4-9=-493/108, 1-10=0/1250, 5-7=0/1422

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); 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 6.
- 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





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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Lot 141 HT Qty 146485504 210459 E4 Common

Job Reference (optional)

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:42 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-XkzDGZOeUSCPczqjyrsJglgVw0?E4NCCeqn2nFz8HkZ Waverly, KS - 66871, 14-9-0 21-11-8 30-4-8 0-10-8 29-6-0 7-6-9 7-6-9 7-2-8 7-6-9

4x9 =

Scale = 1:55.5

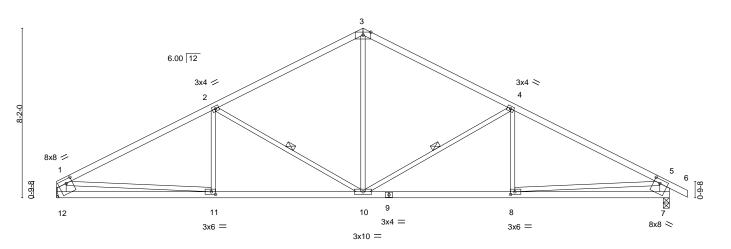
Structural wood sheathing directly applied or 2-2-0 oc purlins,

4-10, 2-10

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

except end verticals.

1 Row at midpt



	7-6-9	14-9-0	21-11-8	29-6-0	i
	7-6-9	7-2-8	7-2-7	7-6-9	
Plate Offsets (X,Y)	[1:0-3-8,0-2-4], [7:0-3-8,0-2-4], [8:0	-2-8,0-1-8], [11:0-2-8,0-1-8]			
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	TC 0.71 BC 0.56 WB 0.46	Vert(CT) -0.21 10-11 >999 Horz(CT) 0.05 7 n/a	L/d PLATES GRIF 360 MT20 197/ 240 n/a 240 Weight: 111 lb FT	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

Wheeler Lumber.

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

2x3 SPF No.2 *Except* **WEBS**

1-12,5-7: 2x6 SPF No.2

(size) 12=Mechanical, 7=0-3-8

Max Horz 12=-109(LC 4)

Max Uplift 12=-15(LC 8), 7=-27(LC 9) Max Grav 12=1305(LC 1), 7=1386(LC 1)

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

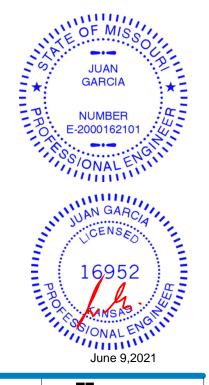
TOP CHORD 1-2=-2092/40, 2-3=-1508/71, 3-4=-1506/71, 4-5=-2089/40, 1-12=-1230/55,

BOT CHORD 11-12=-86/468, 10-11=-31/1778, 8-10=0/1766, 7-8=-73/609

WEBS 3-10=0/781, 4-10=-657/112, 2-10=-671/115, 1-11=0/1327, 5-8=0/1161

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); 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 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.





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Job Truss Type Lot 141 HT Truss Qty Ply 146485505 210459 E5 Common Job Reference (optional)

Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:42 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-XkzDGZOeUSCPczqjyrsJglgWy0?J4OdCeqn2nFz8HkZ 7-6-9 14-9-0 21-11-8 29-6-0 30-4-8 7-6-9 7-6-9 7-2-8

4x9 =

Scale = 1.56.0

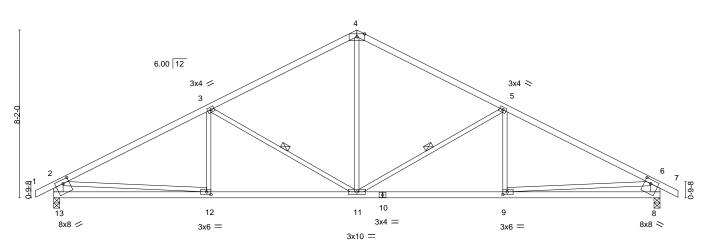
Structural wood sheathing directly applied or 3-4-9 oc purlins,

5-11, 3-11

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

except end verticals.

1 Row at midpt



7-6-9 14-9-0 21-11-8 29-6-0 7-6-9 7 - 2 - 87-2-7 7-6-9 [8:0-3-8,0-2-4], [9:0-2-8,0-1-8], [12:0-2-8,0-1-8], [13:0-3-8,0-2-4] Plate Offsets (X,Y)-LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) **PLATES** GRIP in I/defl I/d TC **TCLL** 25.0 Plate Grip DOL 1.15 0.65 Vert(LL) -0.10 11-12 >999 360 197/144 MT20 1.15 BC 0.56 -0.20 11-12 240 TCDL 10.0 Lumber DOL Vert(CT) >999 BCLL 0.0 Rep Stress Incr YES WB 0.43 Horz(CT) 0.06 8 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.06 11-12 >999 240 Weight: 112 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

Wheeler Lumber.

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

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

Max Horz 13=123(LC 7)

Max Uplift 13=-187(LC 8), 8=-187(LC 9) Max Grav 13=1384(LC 1), 8=1384(LC 1)

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

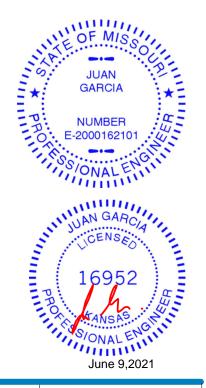
TOP CHORD 2-3=-2086/255, 3-4=-1503/235, 4-5=-1503/235, 5-6=-2086/255, 2-13=-1310/227,

6-8=-1310/227

BOT CHORD 12-13=-276/609, 11-12=-246/1763, 9-11=-128/1763, 8-9=-167/609 WEBS 4-11=-53/772, 5-11=-657/234, 3-11=-657/234, 2-12=-7/1158, 6-9=-16/1158

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) except (jt=lb) 13=187, 8=187,
- 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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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Lot 141 HT Qty Ply 146485506 210459 E6 Roof Special Job Reference (optional)

6x6 =

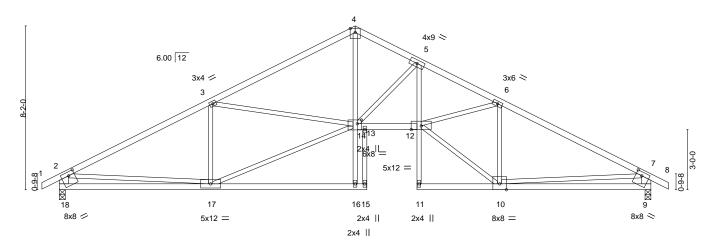
Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:43 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-0wXcTvPGFIKGE7PwVZNYDzCd4QHHpmyLtUWbJhz8HkY 21-11-7 29-6-0 -0-10-8 0-10-8 14-9-0 15-4₁0 17-10-0 30-4-8 0-10-8 7-6-9 2-6-0 7-6-9 7-2-8

Scale = 1:57.5

Structural wood sheathing directly applied, except end verticals.

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



	7-6-9	14-9-0	15-4 ₁ 0 17-10-0 ₁ 21-11-7	29-6-0	
	7-6-9	7-2-8	0-7-0 2-6-0 4-1-7	7-6-9	
Plate Offsets (X,Y)	[9:0-3-8,0-2-4], [14:0-2-8,0-2-4], [18	3:0-3-8,0-2-4]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.94	DEFL. in (loc) I/defl Vert(LL) -0.20 11 >999		GRIP 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.83 WB 0.74 Matrix-S	Vert(CT) -0.37 11 >952 Horz(CT) 0.22 9 n/a Wind(LL) 0.12 12 >999	ı n/a	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

Wheeler Lumber.

5-11: 2x3 SPF No.2 2x3 SPF No.2 *Except*

WEBS 2-18,7-9: 2x6 SPF No.2

REACTIONS. (size) 18=0-3-8, 9=0-3-8

Max Horz 18=123(LC 7)

Max Uplift 18=-187(LC 8), 9=-187(LC 9) Max Grav 18=1384(LC 1), 9=1384(LC 1)

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

TOP CHORD 2-3=-2090/254, 3-4=-2319/240, 4-5=-2255/275, 5-6=-3262/281, 6-7=-2063/246,

2-18=-1312/227, 7-9=-1308/229 **BOT CHORD** 17-18=-278/603, 13-14=-107/2836, 12-13=-108/2838, 5-12=-96/1155, 9-10=-208/690

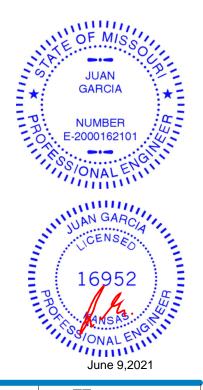
3-17=-667/195, 3-14=-37/324, 14-16=0/398, 4-14=-93/1598, 5-14=-1218/190, WEBS

10-12=-144/2168, 6-12=-39/1149, 6-10=-1295/163, 2-17=-12/1168, 7-10=-6/1047,

14-17=-269/1897

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) except (jt=lb) 18=187, 9=187
- 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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Job Truss Type Lot 141 HT Truss Qty Ply 146485507 210459 E7 Roof Special Job Reference (optional)

Wheeler Lumber. Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:44 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-U65_hFQu03S7sH_63GunmAlrMqfvY99V68G8r7z8HkX

14-9-0 29-6-0 -0-10-8 0-10-8 12-10-0 21-11-8 2-9-8 7-6-9 2-9-8 4-9-1 1-11-0 5-3-7

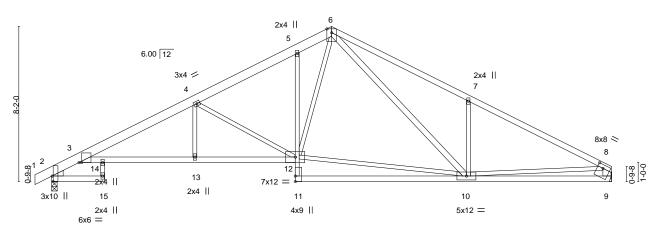
6x8 ||

Scale = 1.60.7

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

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

except end verticals.



	2-9-8 7-6- 2-9-8 4-9-		21-11-8 9-1-7	+	29-6-0 7-6-9	
Plate Offsets (X,Y)-	[2:0-3-8,Edge], [3:0-1-9,0-0)-1], [8:0-3-8,0-2-4]				
LOADING (psf) TCLL 25.0	Plate Grip DOL	2-0-0 CSI. 1.15 TC 0.	,	14 >999 360	-	GRIP 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL Rep Stress Incr Code IRC2018/TPI2	1.15 BC 0.0 YES WB 1.0 2014 Matrix-S	,	9 n/a n/a	Weight: 143 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP DSS *Except* 6-8: 2x4 SPF No.2 **BOT CHORD**

2x4 SPF No.2 *Except* 3-12: 2x4 SPF 2100F 1.8E, 5-11: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

6-10: 2x4 SPF No.2, 8-9: 2x6 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 9=Mechanical

Max Horz 2=102(LC 5)

Max Uplift 2=-26(LC 8), 9=-15(LC 9) Max Grav 2=1383(LC 1), 9=1309(LC 1)

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

2-3=-820/43, 3-4=-2772/51, 4-5=-1902/55, 5-6=-1740/97, 6-7=-2098/147, 7-8=-2113/34, TOP CHORD

8-9=-1239/52

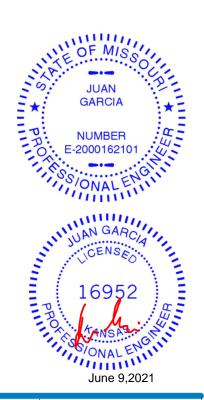
BOT CHORD 3-14=-48/2494, 13-14=-48/2494, 12-13=-48/2494, 9-10=-42/448 WFBS

4-13=0/321, 4-12=-1060/106, 10-12=0/1226, 6-12=-49/841, 6-10=-121/712,

7-10=-539/187, 8-10=0/1353

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); 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.





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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



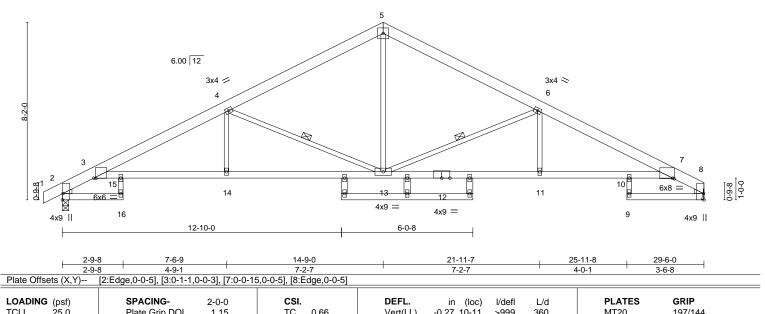
Job Truss Type Lot 141 HT Truss Qty Ply 146485508 210459 E8 Roof Special Job Reference (optional) Wheeler Lumber.

Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:45 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-yJeMubRXnNa_TQZldzQ0IOI1yE?pHhLeLo?iOaz8HkW 29-6-0 -0-10-8 0-10-8 14-9-0 21-11-7 25-11-8 2-9-8 7-6-9 2-9-8 4-9-1 3-6-8 7-2-7 4-0-1

6x6 =

Scale = 1.53.0



TC **TCLL** 25.0 Plate Grip DOL 1.15 0.66 Vert(LL) -0.27 10-11 >999 360 197/144 MT20 Lumber DOL 1.15 BC 0.70 -0.51 10-11 240 TCDL 10.0 Vert(CT) >696 BCLL 0.0 Rep Stress Incr YES WB 0.69 Horz(CT) 0.48 8 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.14 14-15 >999 240 Weight: 151 lb FT = 10%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP DSS

BOT CHORD 2x4 SPF No.2 *Except*

3-12,7-12: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

17-19,18-20,21-22: 2x4 SPF No.2

WEDGE

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

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

Max Horz 2=89(LC 5)

Max Uplift 2=-26(LC 8), 8=-16(LC 9) Max Grav 2=1391(LC 1), 8=1317(LC 1)

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

TOP CHORD 2-3=-825/58, 3-4=-2786/54, 4-5=-1761/45, 5-6=-1762/58, 6-7=-2812/27, 7-8=-780/33

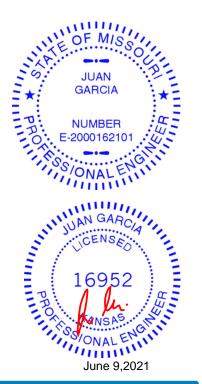
BOT CHORD 3-15=-51/2507, 14-15=-51/2507, 13-14=-51/2507, 11-13=0/2538, 10-11=0/2538,

7-10=0/2538

WEBS 4-14=0/330, 4-13=-1153/135, 5-13=0/1063, 6-13=-1187/116, 6-11=0/337

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); 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) 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.
- 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) 2, 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.



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

4-13, 6-13

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

10-0-0 oc bracing: 11-13

1 Row at midpt



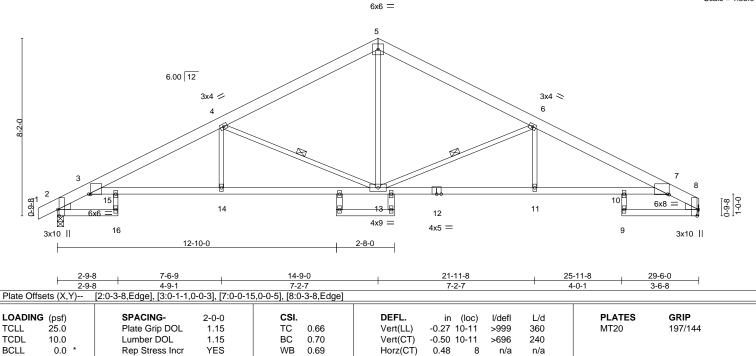
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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, erection and bracing of trusses and truss systems, see

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Job Truss Type Lot 141 HT Truss Qty Ply 146485509 210459 E9 Roof Special Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:46 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-QVCk6wR9Ygir5a8VBhxFrbqChdK208anZSIFw0z8HkV Wheeler Lumber. Waverly, KS - 66871, 21-11-8 29-6-0 -0-10-8 0-10-8 14-9-0 2-9-8 7-6-9 25-11-8 7-2-7 4-0-1 4-9-1 3-6-8 Scale = 1.53.0



Wind(LL)

BRACING-

WEBS

TOP CHORD

BOT CHORD

0.14 14-15

>999

1 Row at midpt

240

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

4-13, 6-13

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

LUMBER-

BCDL

TOP CHORD 2x6 SP DSS

10.0

BOT CHORD 2x4 SPF No.2 *Except*

3-12,7-12: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 17-19,18-20: 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2 , Right: 2x4 SPF No.2

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

Max Horz 2=89(LC 5)

Max Uplift 2=-26(LC 8), 8=-16(LC 9) Max Grav 2=1391(LC 1), 8=1317(LC 1)

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

Code IRC2018/TPI2014

TOP CHORD 2-3=-825/58, 3-4=-2786/54, 4-5=-1761/45, 5-6=-1762/58, 6-7=-2812/27, 7-8=-780/33

BOT CHORD 3-15=-51/2507, 14-15=-51/2507, 13-14=-51/2507, 11-13=0/2538, 10-11=0/2538,

7-10=0/2538

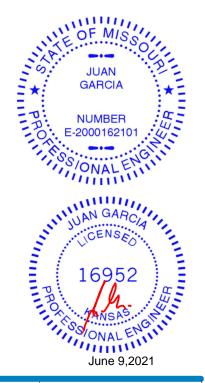
WEBS 4-14=0/330, 4-13=-1153/135, 5-13=0/1063, 6-13=-1187/116, 6-11=0/337

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-S

- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- 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) 2, 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.



Weight: 147 lb

FT = 10%

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16023 Swingley Ridge Rd Chesterfield, MO 63017

Truss Type Job Truss Qty Lot 141 HT 146485510 210459 E10 Roof Special Job Reference (optional)

6x8 ||

Waverly, KS - 66871, Wheeler Lumber.

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:38 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-fzjjQBL8RDiz8MXyj?oNWvVrGPcj8V5ckCpqeUz8Hkd 21-11-7 29-6-0 14-9-0 17-7-6 25-11-8 30-4-8 0-10-8 7-6-9 7-6-9 2-10-6 3-6-8 7-2-8 4-0-1

Scale = 1:56.9

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

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

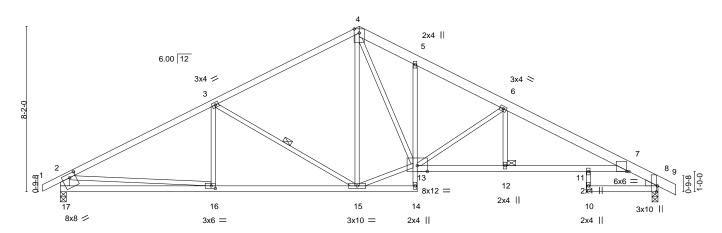
3-15

except end verticals.

1 Row at midpt

1 Brace at Jt(s): 12

10-0-0 oc bracing: 12-13, 11-12



\vdash	7-6-9 7-6-9	14-9-0 7-2-8	17-7-6 2-10-6	21-11-7 4-4-1	25-11-8 4-0-1	29-6-0 3-6-8
Plate Offsets (X,Y)	[7:0-1-5,0-0-1], [8:0-3-8,Edge], [16:0)-2-8,0-1-8], [17:0-3-8,0-2-4]				
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 0.63 BC 0.66 WB 0.72 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) I/defl -0.22 11-12 >999 -0.42 11-12 >832 0.26 8 n/a 0.16 11-12 >999	L/d 360 240 n/a 240	PLATES GRIP MT20 197/144 Weight: 140 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 4-9: 2x6 SP DSS **BOT CHORD** 2x4 SPF No.2 *Except*

5-14: 2x3 SPF No.2, 7-13: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

2-17: 2x6 SPF No.2

WEDGE

Right: 2x4 SPF No.2

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

Max Horz 17=-132(LC 9)

Max Uplift 17=-188(LC 8), 8=-186(LC 9) Max Grav 17=1388(LC 1), 8=1382(LC 1)

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

2-3=-2095/254, 3-4=-1518/236, 4-5=-1870/306, 5-6=-2007/245, 6-7=-2768/300, TOP CHORD

7-8=-807/129 2-17=-1315/227

BOT CHORD 16-17=-286/607, 15-16=-250/1771, 12-13=-161/2490, 11-12=-161/2490, 7-11=-161/2490

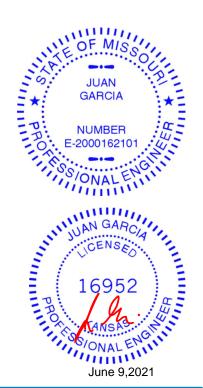
3-15=-639/225, 13-15=-50/1265, 4-13=-176/1108, 6-13=-1004/223, 6-12=0/306,

2-16=-11/1167

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 arip 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) except (jt=lb) 17=188, 8=186.
- 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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Job Truss Truss Type Qty Lot 141 H7 146485511 210459 E11 Roof Special Structural Gable Job Reference (optional)

Wheeler Lumber. Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:39 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-79H5eXMmBXqqIV59GjJc3723Vp0Tt?xmysYNAwz8Hkc 21-11-7 29-6-0 14-9-0 -0-10-8 0-10-8 14-9-0

> Scale = 1:55.2 6x8 ||

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

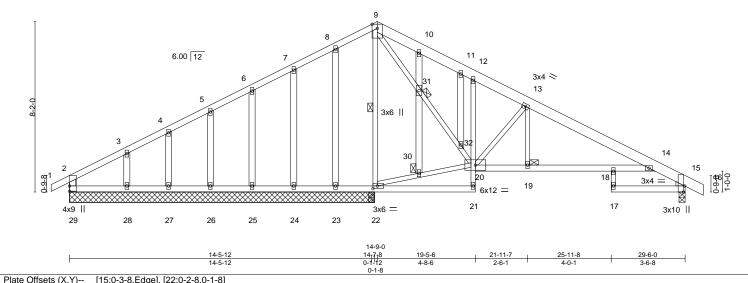
Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

except end verticals.

1 Row at midpt

10-0-0 oc bracing: 21-22,20-21,15-17.

10-0-0 oc bracing: 19-20, 18-19



1 late Oil	13013 (A, I)	[13.0-3-0,Luge], [22.0-2-0,0-1-0]			
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 0.40	Vert(LL) -0.08 18 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.18 18-19 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.08 15 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.07 18 >999 240	Weight: 154 lb FT = 10%

BOT CHORD

WEBS

JOINTS

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x4 SPF No.2 *Except* 9-16: 2x6 SPF No.2

2x4 SPF No.2 *Except* **BOT CHORD** 12-21: 2x3 SPF No.2 WEBS 2x3 SPF No.2 *Except*

2-29: 2x4 SPF No.2

OTHERS 2x4 SPF No.2 WEDGE

Right: 2x3 SPF No.2

REACTIONS. All bearings 14-7-8 except (jt=length) 15=0-3-8.

Max Horz 29=-132(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 23, 24, 25, 26, 27 except 29=-292(LC 22), 15=-104(LC 9), 22=-131(LC 9), 28=-121(LC 8) All reactions 250 lb or less at joint(s) 29, 23, 24, 25, 26, 27 except Max Grav 15=488(LC 1), 22=1238(LC 1), 22=1238(LC 1), 28=395(LC 1)

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

TOP CHORD 2-3=-145/587, 3-4=-76/529, 4-5=-37/548, 5-6=-8/544, 6-7=0/543, 7-8=0/550,

8-9=0/534, 13-14=-391/99, 2-29=-35/261

BOT CHORD 28-29=-463/243, 27-28=-463/243, 26-27=-463/243, 25-26=-463/243, 24-25=-463/243,

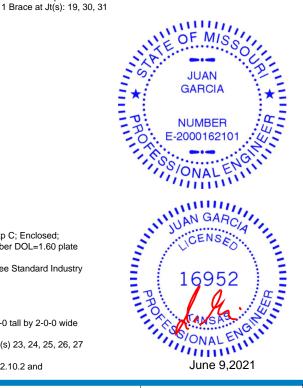
23-24=-463/243, 22-23=-463/243, 19-20=-14/321, 18-19=-14/321, 14-18=-14/321

9-31=-178/655, 31-32=-166/613, 20-32=-174/650, 22-30=-500/240, 20-30=-480/230,

13-20=-648/168, 13-19=0/256, 3-28=-268/127, 9-22=-966/106

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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 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) 23, 24, 25, 26, 27 except (jt=lb) 29=292, 15=104, 22=131, 28=121.
- 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





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Job Truss Type Lot 141 HT Truss Qty Ply 146485512 210459 G1 Roof Special Job Reference (optional)

4x5 ||

Wheeler Lumber. Waverly, KS - 66871,

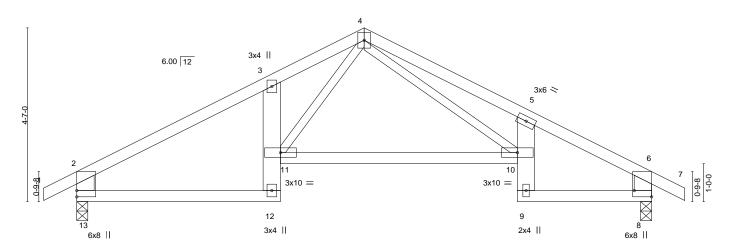
8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:47 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-uhm6JGSnJ_qijkjhkOSUNpNNi1g2lhlxo6UpSSz8HkU | -0-10-8 | 0-10-8 16-0-8 7-7-0 11-7-8 15-2-0 5-4-8 5-4-8 2-2-8 0-10-8 3-6-8

Scale = 1:30.4

15-2-0

Weight: 56 lb

FT = 10%



5-4-8 6-3-0 3-6-8 Plate Offsets (X,Y)-[8:Edge,0-5-8] LOADING (psf) SPACING-CSI. DEFL. (loc) **PLATES** GRIP 2-0-0 in I/defl I/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.11 10-11 >999 360 197/144 MT20 Lumber DOL BC 0.65 TCDL 10.0 1.15 Vert(CT) -0.25 10-11 >701 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.31 Horz(CT) 0.11 8 n/a n/a

LUMBER-

BCDL

TOP CHORD 2x4 SPF No.2

10.0

BOT CHORD 2x4 SPF No.2 *Except*

3-12,5-9: 2x6 SPF No.2

WEBS 2x6 SPF No.2 *Except*

4-11,4-10: 2x3 SPF No.2

BRACING-

Wind(LL)

11-7-8

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

240

except end verticals.

0.06 10-11

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

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

>999

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

Max Horz 13=-77(LC 6)

Max Uplift 13=-107(LC 8), 8=-107(LC 9) Max Grav 13=739(LC 1), 8=739(LC 1)

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

5-4-8

Code IRC2018/TPI2014

TOP CHORD 2-3=-883/117, 3-4=-1211/208, 4-5=-1675/258, 5-6=-845/113, 2-13=-674/141,

6-8=-667/122

BOT CHORD 12-13=-87/689, 3-11=-345/158, 10-11=-26/725, 5-10=-493/171, 8-9=-48/650

WEBS 4-11=-115/561, 4-10=-177/901

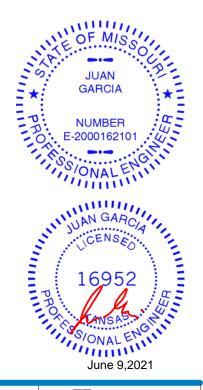
NOTES-

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

Matrix-S

- 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) except (jt=lb) 13=107 8=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.





Job Truss Type Lot 141 HT Truss Qty 146485513 210459 G2 Common Supported Gable Job Reference (optional)

4x5 =

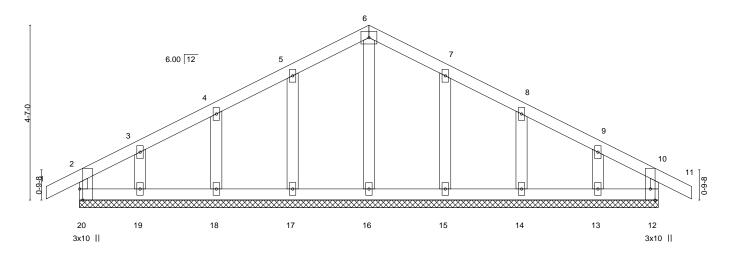
Wheeler Lumber. Waverly, KS - 66871,

-0-10-8 0-10-8

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:48 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-MuKVXcTP4lzZKuHtl6zjw0whXRA3UC941mEM?vz8HkT 16-0-8 15-2-0

Scale = 1:30.2

0-10-8



15-2-0 Plate Offsets (X,Y)-[20:0-3-8,Edge] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) -0.00120 197/144 11 n/r MT20 10.0 Lumber DOL BC TCDL 1.15 0.02 Vert(CT) -0.0011 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 12 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 58 lb FT = 10%

15-2-0

LUMBER-**BRACING-**

7-7-0

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x4 SPF No.2 except end verticals. 2x3 SPF No.2 WEBS **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 15-2-0.

(lb) - Max Horz 20=-75(LC 6)

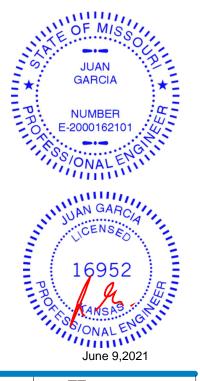
2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 20, 12, 17, 18, 19, 15, 14, 13 Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

OTHERS

- 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 12, 17, 18, 19, 15, 14, 13,
- 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.



MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017 Job Truss Truss Type Lot 141 HT Qty 146485514 210459 H1 Common Supported Gable Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:48 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-MuKVXcTP4lzZKuHtl6zjw0whXRA3UCO41mEM?vz8HkT Wheeler Lumber. Waverly, KS - 66871, 11-4-0 12-2-8 -0-10-8 5-8-0 0-10-8 5-8-0 0-10-8 Scale = 1:23.7 4x5 = 5 6.00 12 6 8 16 15 14 13 12 11 3x10 || 3x10 || 11-4-0

Plate Offsets (X,Y) [16:0-3-8,Edge]										
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 0.07 BC 0.02 WB 0.03 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.00 9 n/r 120 Vert(CT) -0.00 9 n/r 120 Horz(CT) 0.00 10 n/a n/a	PLATES GRIP MT20 197/144 Weight: 41 lb FT = 10%						

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

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

REACTIONS. All bearings 11-4-0.

(lb) - Max Horz 16=-63(LC 6)

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

OTHERS

- 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12. 11.
- 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.







Job Truss Type Lot 141 HT Truss Qty 146485515 210459 H2 Common Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:49 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-q4utkyU1rb5Qy2s4spUyTESm3rT3DdxEFQzvXLz8HkS Wheeler Lumber. Waverly, KS - 66871, 12-2-8 -0-10-8 5-8-0 11-4-0 0-10-8 5-8-0 0-10-8

4x5 =

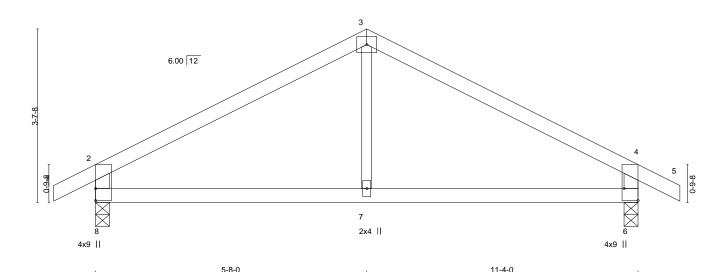


Plate Off	Plate Offsets (X,Y) [6:Edge,0-3-8]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	-0.02	`6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	0.01	7-8	>999	240	Weight: 33 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

5-8-0

except end verticals.

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

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

LUMBER-

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

3-7: 2x3 SPF No.2

REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=-63(LC 6)

Max Uplift 8=-84(LC 8), 6=-84(LC 9)

Max Grav 8=568(LC 1), 6=568(LC 1)

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

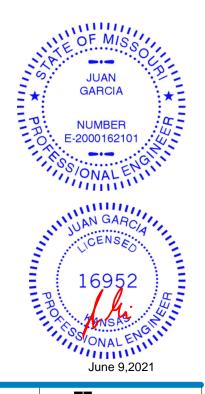
TOP CHORD 2-3=-588/85, 3-4=-588/85, 2-8=-510/123, 4-6=-510/123

BOT CHORD 7-8=-12/438, 6-7=-12/438

- 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) 8, 6.

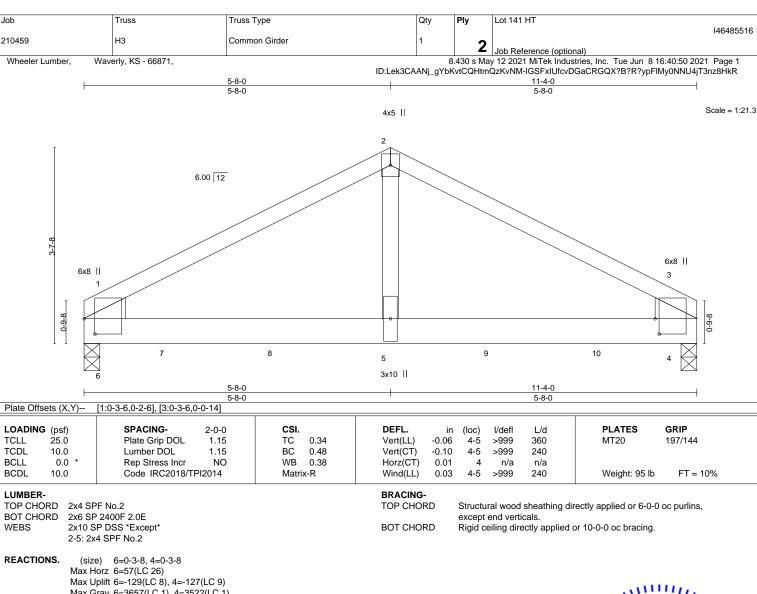
5-8-0

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: 1/2"=1





Max Grav 6=3657(LC 1), 4=3522(LC 1)

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

TOP CHORD 1-2=-3874/157, 2-3=-3874/157, 1-6=-1912/132, 3-4=-1912/132

BOT CHORD 5-6=-87/3375, 4-5=-87/3375

WEBS 2-5=-16/3104

NOTES-

- 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 0-9-0 oc, 2x10 2 rows staggered at 0-9-0 oc.
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-7-0 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) 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) 6=129, 4=127
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1285 lb down and 35 lb up at 1-6-12, 1236 lb down and 36 lb up at 3-6-12, 1236 lb down and 36 lb up at 5-6-12, and 1236 lb down and 36 lb up at 7-6-12, and 1236 lb down and 36 lb up at 9-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

🗥 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

June 9.2021

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NUMBER

E-2000162101

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Job Truss Truss Type Qty Ply Lot 141 HT I46485516 210459 НЗ Common Girder Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:50 2021 Page 2 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-IGSFxIUfcvDGaCRGQX?B?R?ypFIMy0NNU4jT3nz8HkR

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, 4-6=-20

Concentrated Loads (lb)

Vert: 5=-1236(B) 7=-1285(B) 8=-1236(B) 9=-1236(B) 10=-1236(B)

Job Truss Truss Type Qty Lot 141 HT 146485517 210459 J4 Diagonal Hip Girder Job Reference (optional)

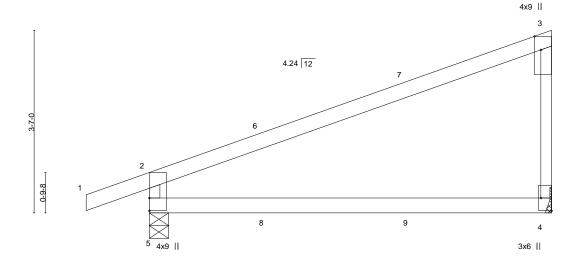
Wheeler Lumber. Waverly, KS - 66871, 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:56 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-7QpWCLZQBIzQI7vQmn6bFiFv1fmpMpoGs0AnHRz8HkL

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

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

7-10-11 -1-2-14 7-10-11 1-2-14

Scale = 1:22 6



7-10-11 7-10-11

except end verticals.

Plate Off	sets (X,Y)	[3:0-3-3,Edge], [4:Edge,0	-2-8]									
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)	-0.15	4-5	>610	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.32	4-5	>288	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)	0.06	4-5	>999	240	Weight: 23 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

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

Max Horz 5=153(LC 5) Max Uplift 5=-126(LC 4), 4=-101(LC 8) Max Grav 5=457(LC 1), 4=358(LC 1)

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

TOP CHORD 2-5=-392/186, 3-4=-252/139

REACTIONS.

- 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) except (jt=lb) 5=126, 4=101.
- 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) 68 lb down and 30 lb up at 2-3-13, 68 lb down and 30 lb up at 2-3-13, and 93 lb down and 71 lb up at 5-1-13, and 93 lb down and 71 lb up at 5-1-13 on top chord, and 3 lb down and 1 lb up at 2-3-13, 3 lb down and 1 lb up at 2-3-13, and 20 lb down at 5-1-13, and 20 lb down at 5-1-13 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).

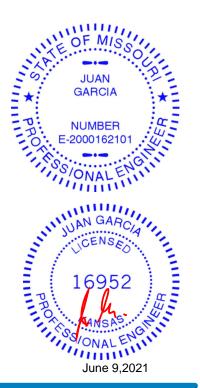
LOAD CASE(S) Standard

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=-13(F=-7, B=-7) 8=3(F=1, B=1) 9=-20(F=-10, B=-10)







Job	Truss	Truss Type	Qty	Ply	Lot 141 HT
		l <u>.</u>	_		146485518
210459	J5	Jack-Open	2	1	
			l .		Job Poference (optional)

Wheeler Lumber.

Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:57 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-bdNuPha2y35HwGTcKVdqnwnCi3Ev5G2P5gvKptz8HkK

Structural wood sheathing directly applied or 3-6-15 oc purlins,

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

except end verticals.

-0-10-8 3-6-15 0-10-8 3-6-15

Scale = 1:15.8

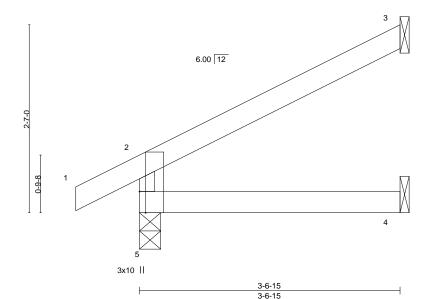


Plate Offsets (X,Y)	DADING (psf) SPACING- Plate Grip DOL 2-0-0 1.15 CSI. TC DEFL. Vert(LL) in (loc) I/defl L/d PLATES GRIP CDL 10.0 Lumber DOL 1.15 TC 0.17 Vert(LL) -0.01 4-5 >999 360 MT20 197/144 CDL 10.0 Lumber DOL 1.15 BC 0.10 Vert(CT) -0.01 4-5 >999 240			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.01 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.01 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/TPI2014	Matrix-R	Wind(LL) 0.01 4-5 >999 240	Weight: 10 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 WEBS

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

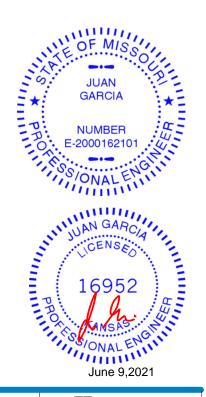
Max Horz 5=79(LC 8)

Max Uplift 5=-25(LC 8), 3=-63(LC 8)

Max Grav 5=232(LC 1), 3=106(LC 1), 4=65(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.
- 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 141 HT	٦
		l <u>.</u>			146485519	
210459	J6	Jack-Open	2	1		
			I	1	Job Poference (optional)	

Wheeler Lumber.

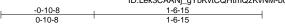
Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:57 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-bdNuPha2y35HwGTcKVdqnwnDG3FH5G2P5gvKptz8HkK

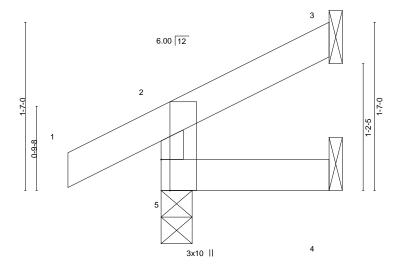
Structural wood sheathing directly applied or 1-6-15 oc purlins,

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

except end verticals.



Scale = 1:10.8



1-6-15 1-6-15

BRACING-

TOP CHORD

BOT CHORD

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	0.02	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/Ti	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 5 lb	FT = 10%

LUMBER-

REACTIONS.

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

2x3 SPF No.2

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

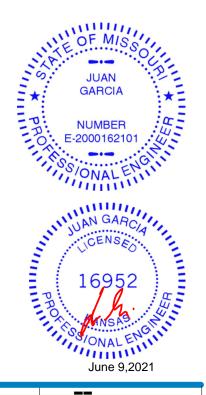
Max Horz 5=39(LC 8)

Max Uplift 5=-22(LC 8), 3=-26(LC 8)

Max Grav 5=157(LC 1), 3=31(LC 1), 4=27(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.
- 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 141 HT	1
					146485520	
210459	J7	Jack-Closed	2	1		
					Llob Reference (optional)	

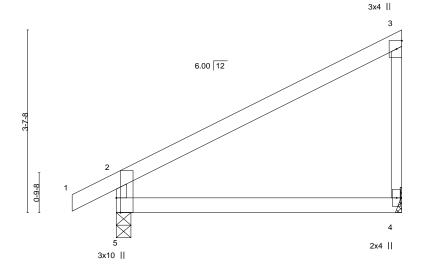
Wheeler Lumber. Waverly, KS - 66871, 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:58 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-3pxHd1bhjMD8XQ2ouC83K7KJOTWlqjlZKKfuLJz8HkJ

Structural wood sheathing directly applied or 5-8-0 oc purlins,

except end verticals.

-0-10-8 5-8-0 0-10-8 5-8-0

Scale = 1:22 9



5-8-0 5-8-0

TOP CHORD

Plate Offsets (X,Y)	[5:0-3-8,Edge]		3 0 0	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.43 BC 0.26	DEFL. in (loc) l/defl L/d Vert(LL) -0.04 4-5 >999 360 Vert(CT) -0.08 4-5 >809 240 Horz(CT) -0.00 4 n/a n/a	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) -0.00 4 n/a n/a Wind(LL) 0.02 4-5 >999 240	Weight: 18 lb FT = 10%

LUMBER-**BRACING-**

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

2x3 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

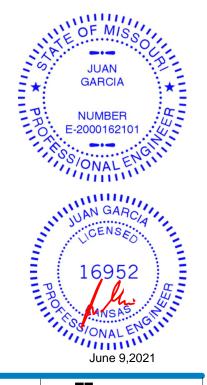
Max Horz 5=143(LC 5)

Max Uplift 5=-50(LC 8), 4=-64(LC 8) Max Grav 5=320(LC 1), 4=239(LC 1)

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

TOP CHORD 2-5=-278/94

- 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, 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.





Truss Type Lot 141 HT Job Truss Qty 146485521 210459 J8 Diagonal Hip Girder Job Reference (optional)

Wheeler Lumber. Waverly, KS - 66871,

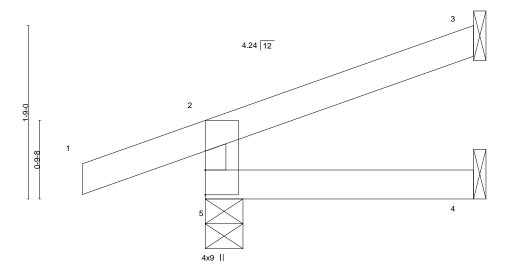
8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:59 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-Y?VfqNbJUgL?9ad?RwglsLtZrtwPZAYiZ_ORtmz8Hkl

Structural wood sheathing directly applied or 2-8-7 oc purlins,

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

-1-2-14 2-8-7 1-2-14 2-8-7

Scale = 1:11.6



			2-8-7											
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	0.12	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				
BCDI	10.0	Code IRC2018/T	PI2014	Matri	x-R	Wind(LL)	0.00	4-5	>999	240	Weight: 8 lb	FT = 10%		

BRACING-

TOP CHORD

BOT CHORD

2-8-7

except end verticals.

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No 2

(size) 5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=60(LC 7)

Max Uplift 5=-78(LC 6), 3=-68(LC 12), 4=-3(LC 19) Max Grav 5=113(LC 1), 3=40(LC 26), 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 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) 24 lb down and 9 lb up at -1-2-14, and 24 lb down and 9 lb up at -1-2-14, and 44 lb down and 33 lb up at 2-7-11 on top chord, and 10 lb down at 2-7-11 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

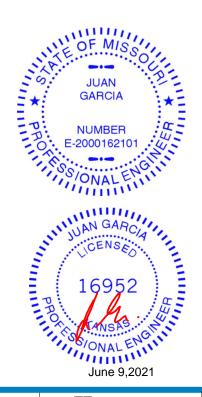
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-36(F=-18, B=-18) 4=-0(F)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-34(F=18, B=18), 2=-4(F=33, B=33)-to-3=-49(F=10, B=10), 5=-0(F=10, B=10)-to-4=-14(F=3, B=10), 5=-0(F=10, B=10)-to-4=-14(F=3, B=10)-to-4=-14 B=3)







	Job	Truss	Truss Type	Qty	Ply	Lot 141 HT	٦
						146485522	
	210459	J9	Jack-Open	1	1		
- 1				1	1	Job Poference (optional)	- 1

Wheeler Lumber.

Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:59 2021 Page 1 $ID: Lek 3CAAN j_gYbKvtCQHtmQzKvNM-Y?VfqNbJUgL?9ad?RwglsLtZltwfZAYiZ_ORtmz8HklAVfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgL?9ad?RwglsLtZltwfQNbJUgl.$

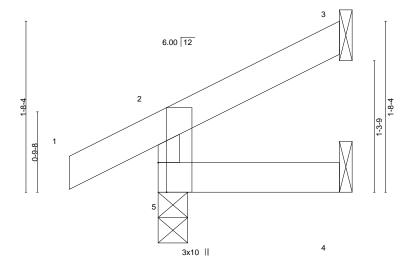
Structural wood sheathing directly applied or 1-9-7 oc purlins,

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

except end verticals.



Scale = 1:11 4



1-9-7 1-9-7

BRACING-

TOP CHORD

BOT CHORD

Plate Offs	ets (X,Y)	[5:0-3-8,Edge]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	` ź	>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/TF	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

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

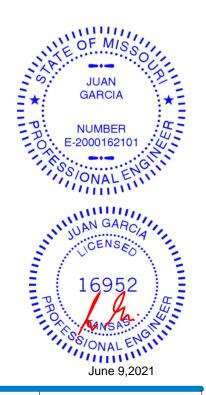
Max Horz 5=44(LC 8)

Max Uplift 5=-22(LC 8), 3=-31(LC 8)

Max Grav 5=164(LC 1), 3=41(LC 1), 4=31(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.
- 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.





Truss Type Lot 141 HT Job Truss Qty 146485523 210459 J10 Diagonal Hip Girder Job Reference (optional)

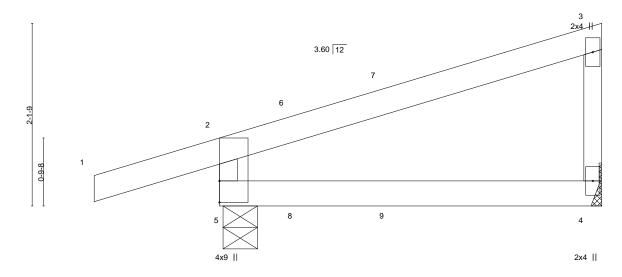
Wheeler Lumber. Waverly, KS - 66871, 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:51 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-nT0d9eVHNDL7CL0SzEWQYfY9leAhhYZXjkS0bDz8HkQ

Structural wood sheathing directly applied or 4-5-7 oc purlins,

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

-1-5-8 4-5-7 1-5-8

Scale = 1:13.4



		4-4-10										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	(loc) I/o	defl L/d	PLATES GRIP						
TCLL 25.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.01	4-5 >9	999 360	MT20 197/144						
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.03	4-5 >9	999 240							
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00	4	n/a n/a							
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00	4-5 >9	999 240	Weight: 14 lb FT = 10%						

BRACING-

TOP CHORD

BOT CHORD

4-5-7

except end verticals.

LUMBER-

REACTIONS.

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

2x3 SPF No.2 **WEBS**

(size) 5=0-4-13, 4=Mechanical

Max Horz 5=86(LC 24)

Max Uplift 5=-110(LC 4), 4=-59(LC 8) Max Grav 5=317(LC 1), 4=242(LC 1)

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

TOP CHORD 2-5=-282/136

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) 4 except (jt=lb) 5=110.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 11 lb up at 0-11-9, and 61 lb down and 17 lb up at 2-0-6, and 75 lb down and 63 lb up at 4-4-3 on top chord, and 2 lb down and 3 lb up at 0-11-9, and 3 lb down and 6 lb up at 2-0-6, and 33 lb down at 4-4-3 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).

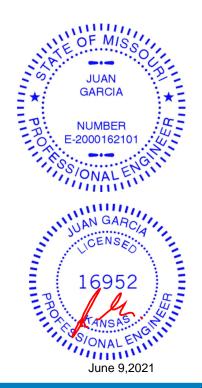
LOAD CASE(S) Standard

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: 3=-50(B) 4=-23(B) 8=3(B) 9=2(F)





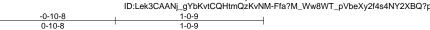
Job Truss Truss Type Lot 141 HT Qty 146485524 210459 J11 Jack-Open Job Reference (optional)

Wheeler Lumber. Waverly, KS - 66871, 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:52 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-Ffa?M_Ww8WT_pVbeXy2f4s4NY2XBQ?pgyOCZ8gz8HkP

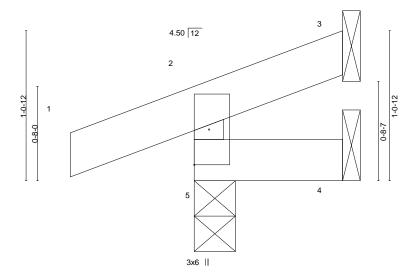
Structural wood sheathing directly applied or 1-0-9 oc purlins,

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

except end verticals.



Scale = 1:8 1



1-0-9
1-0-9

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	0.06	Vert(LL)	0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	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/TF	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 4 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 **WEBS**

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

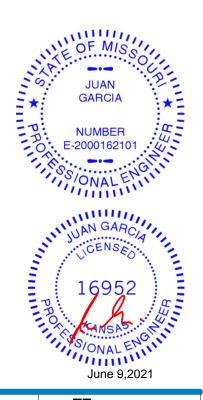
Max Horz 5=27(LC 5)

Max Uplift 5=-55(LC 4), 3=-9(LC 8)

Max Grav 5=146(LC 1), 3=3(LC 19), 4=16(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 Lot 141 HT Qty 146485525 210459 J12 Jack-Open 6 Job Reference (optional)

Wheeler Lumber. Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:52 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-Ffa?M_Ww8WT_pVbeXy2f4s4KB2VHQ?pgyOCZ8gz8HkP

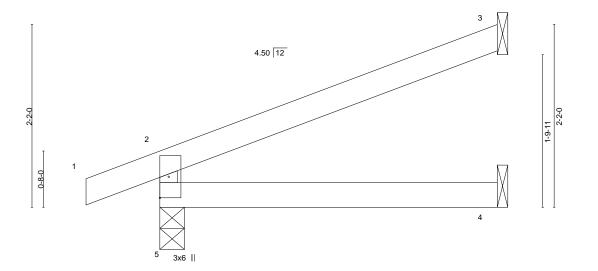
Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

except end verticals.

-0-10-8 4-0-0 0-10-8 4-0-0

Scale = 1:13.7



4-0-0 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. I/defl L/d in (loc) Plate Grip DOL TCLL 25.0 Vert(LL) >999 360 MT20 197/144 1.15 TC 0.21 -0.01 4-5 TCDL 10.0 Lumber DOL 1.15 BC 0.13 Vert(CT) -0.024-5 >999 240 WB 0.00 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.01 3 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-R Wind(LL) 0.01 4-5 >999 240 Weight: 11 lb FT = 10%

4-0-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x3 SPF No.2 **WEBS**

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

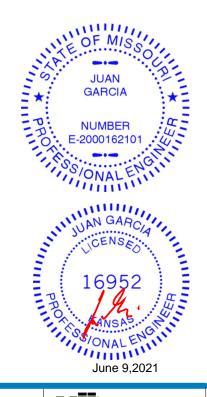
Max Horz 5=68(LC 4)

Max Uplift 5=-55(LC 4), 3=-60(LC 8)

Max Grav 5=250(LC 1), 3=120(LC 1), 4=73(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 141 HT	
					146485526	
210459	J13	Jack-Open	1	1		
					Job Reference (optional)	П

Wheeler Lumber. Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:53 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-jr7OaKXYuqbrRfAr5fZud4dXGStQ9S3pA2x7g6z8HkO

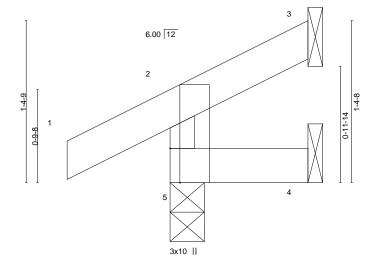
Structural wood sheathing directly applied or 1-2-1 oc purlins,

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

except end verticals.

-0-10-8 1-2-1 0-10-8 1-2-1

Scale = 1.9.8



1-2-1 1-2-1

Plate Offsets (X,Y)	Plate Offsets (X,Y) [5:0-3-8,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 0.07	Vert(LL) -0.00 5 >999 360 MT20 197/144								
TCDL 10.0	Lumber DOL 1.15	BC 0.01	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: 4 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 WEBS

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

Max Horz 5=34(LC 5)

Max Uplift 5=-23(LC 8), 3=-17(LC 8), 4=-1(LC 5)

Max Grav 5=148(LC 1), 3=11(LC 15), 4=19(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.





Job Truss Truss Type Lot 141 HT Qty 146485527 210459 J16 Jack-Open Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:53 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-jr7OaKXYuqbrRfAr5fZud4dWUSsr9S3pA2x7g6z8HkO Wheeler Lumber. Waverly, KS - 66871, -0-10-8 3-8-9 0-10-8 3-8-9 Scale = 1:13 1 4.50 12

3x6 II 3-8-9

3-8-9 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. I/defl L/d in (loc) Plate Grip DOL TCLL 25.0 Vert(LL) >999 360 MT20 197/144 1.15 TC 0.18 -0.01 4-5 TCDL 10.0 Lumber DOL 1.15 BC 0.11 Vert(CT) -0.024-5 >999 240 WB 0.00 Horz(CT) **BCLL** 0.0 Rep Stress Incr YES 0.01 3 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-R Wind(LL) 0.01 4-5 >999 240 Weight: 10 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 **WEBS**

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

Max Horz 5=63(LC 4)

0-8-0

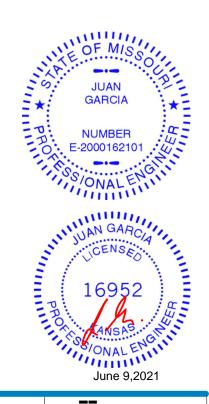
Max Uplift 5=-54(LC 4), 3=-55(LC 8)

Max Grav 5=238(LC 1), 3=110(LC 1), 4=67(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.



1-8-7

Structural wood sheathing directly applied or 3-8-9 oc purlins,

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

except end verticals.

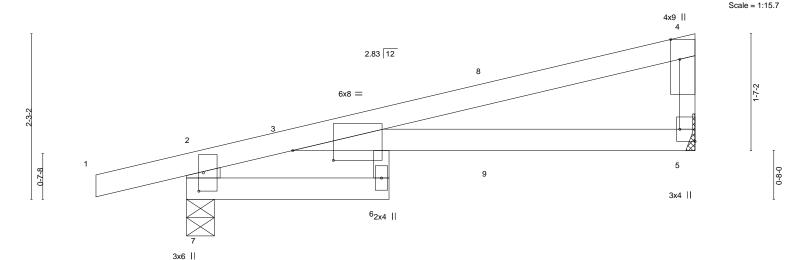






Lot 141 HT Job Truss Truss Type Qty 146485528 210459 J17 Diagonal Hip Girder Job Reference (optional) Wheeler Lumber. Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:54 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-B2hmnfXAf8ji3pl1fM479H9Z6s6euvmzPihgCYz8HkN -1-2-14 6-11-6 2-9-3 1-2-14 2-9-3



				1			6-11	-6				
		1	2-9-3						4-2	-3		1
Plate Offsets (>	<,Y) [3:0-6-11,0-1-10], [4:0-3-4	I,Edge], [5:Edç	ge,0-2-8], [7:	0-3-0,0-0-12]							
LOADING (SPACING-	0.00	CCI		DEEL		(1)	1/-141	1.74	DIATES	CDID
LOADING (psf	,		2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	0	Plate Grip DOL	1.15	TC TC	0.70	Vert(LL)	-0.17	6	>465	360	MT20	197/144
TCDL 10.0	0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.33	6	>242	240		
BCLL 0.0	0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.09	5	n/a	n/a		
BCDL 10.0	0	Code IRC2018/TF	12014	Matrix	(-R	Wind(LL)	0.15	6	>519	240	Weight: 20 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

2x3 SPF No.2 *Except* 2-7: 2x6 SPF No.2

REACTIONS. (size) 7=0-4-9, 5=Mechanical

Max Horz 7=77(LC 5)

Max Uplift 7=-108(LC 4), 5=-54(LC 8) Max Grav 7=438(LC 1), 5=305(LC 1)

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

TOP CHORD 2-7=-417/122

- 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 except (jt=lb)
- 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) 78 lb down and 40 lb up at 4-2-8, and 78 lb down and 40 lb up at 4-2-8 on top chord, and 15 lb down at 4-2-8, and 15 lb down 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).

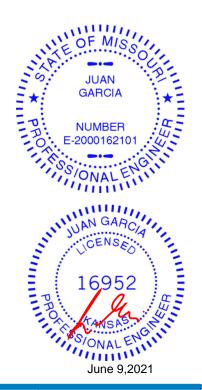
LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 9=-20(F=-10, B=-10)



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

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

except end verticals.





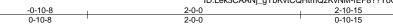
Job Truss Truss Type Lot 141 HT Qty 146485529 210459 J18 Jack-Open Job Reference (optional)

Wheeler Lumber. Waverly, KS - 66871, 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:40:55 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-fEF8??YoQRrZgzKDC4bMiVit5GYxdMH6eMQEk?z8HkM

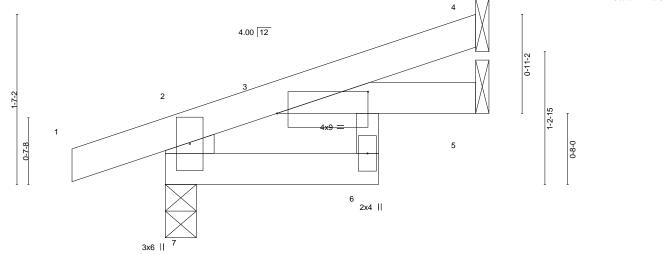
Structural wood sheathing directly applied or 2-10-15 oc purlins,

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

except end verticals.



Scale = 1:10.8



2-0-0 2-10-15 2-0-0 0-10-15

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[3:0-10-4,0-2-7]			
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 0.11	Vert(LL) -0.01 6 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.01 6 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.01 5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.01 6 >999 240	Weight: 10 lb FT = 10%

LUMBER-

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

2x6 SPF No.2 *Except* 3-6: 2x3 SPF No.2

REACTIONS.

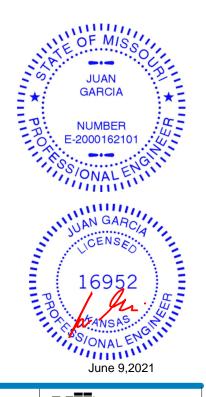
(size) 7=0-3-8, 4=Mechanical, 5=Mechanical Max Horz 7=49(LC 4)

Max Uplift 7=-61(LC 4), 4=-27(LC 8)

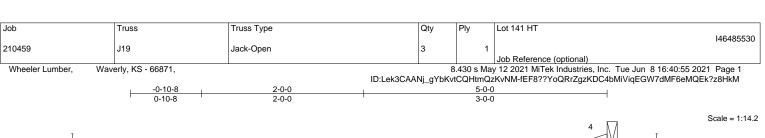
Max Grav 7=221(LC 1), 4=71(LC 1), 5=53(LC 3)

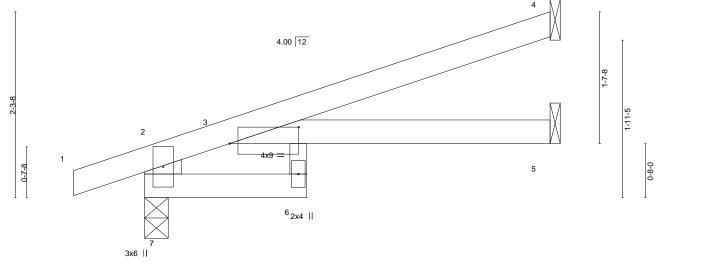
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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) 7, 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.









5-0-0

except end verticals.

Structural wood sheathing directly applied or 5-0-0 oc purlins,

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

Plate Offsets (X,Y)	[3:0-10-4,0-2-7]			
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 0.29	Vert(LL) -0.04 6 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.07 6 >763 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.03 5 n/a n/a	Weight: 15 lb FT = 10%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.04 6 >999 240	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x6 SPF No.2 *Except*

3-6: 2x3 SPF No.2

REACTIONS.

(size) 7=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 7=77(LC 4)

Max Uplift 7=-67(LC 4), 4=-58(LC 8)

Max Grav 7=311(LC 1), 4=139(LC 1), 5=89(LC 3)

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

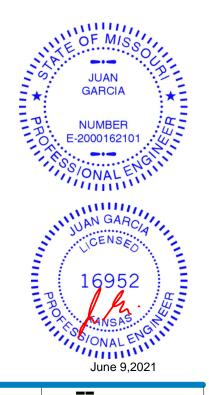
TOP CHORD

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

2-0-0

- 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, 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.



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, 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

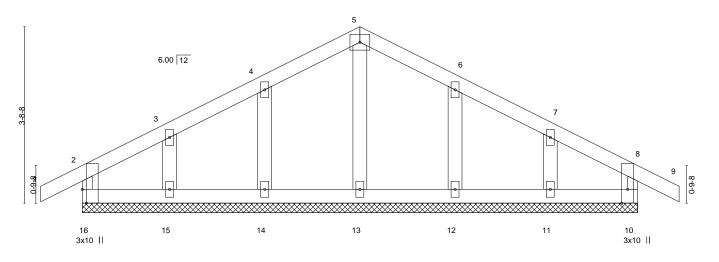
Job Truss Type Lot 141 HT Truss Qty 146485531 210459 K1 Common Supported Gable Job Reference (optional) Wheeler Lumber. Waverly, KS - 66871,

4x5 =

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:00 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-0B212jcxF_TsnkCB?dBXPYPkVHGsldMrnd8?QCz8HkH 11-8-0 12-6-8

Scale: 1/2"=1

0-10-8



11-8-0 [16:0-3-8,Edge] Plate Offsets (X,Y)-LOADING (psf) SPACING-CSI. DEFL. I /d **PLATES** GRIP 2-0-0 in (loc) I/defI **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) -0.00120 197/144 9 n/r MT20 10.0 Lumber DOL BC TCDL 1.15 0.02 Vert(CT) -0.009 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 10 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 42 lb FT = 10%

BRACING-

11-8-0

LUMBER-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 11-8-0.

-0-10-8

0-10-8

(lb) - Max Horz 16=-64(LC 6)

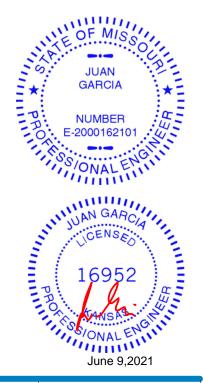
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

5-10-0

5-10-0

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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12. 11.
- 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.





Lot 141 HT Job Truss Truss Type Qty 146485532 210459 K2 Common Girder Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:01 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-UOcPF3dZ0HbjOunNZLimymyqEgUR1?8?0HtYyez8HkG Wheeler Lumber. Waverly, KS - 66871, 11-6-8 5-8-8 5-8-8 Scale = 1:21 7 4x5 || 6.00 12 6x8 || 8x8 || 3 0-10-4 7 8 10 11 3x10 || 5-8-8 11-6-8 5-8-8 5-10-0 Plate Offsets (X,Y)--[1:0-5-11,0-4-0], [3:0-3-6,0-0-14] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.07 4-5 >999 360 197/144 MT20 Lumber DOL 0.51 TCDL 10.0 1.15 BC Vert(CT) -0.124-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.38 Horz(CT) 0.01 4 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 5-6 >999 240 Weight: 97 lb FT = 10%0.03 LUMBER-BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD

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

BOT CHORD 2x6 SP 2400F 2.0E 2x10 SP DSS *Except* WEBS

2-5: 2x4 SPF No.2

REACTIONS. (size) 6=0-2-0, 4=0-3-8

Max Horz 6=-59(LC 27) Max Uplift 6=-381(LC 8), 4=-148(LC 9)

Max Grav 6=4504(LC 1), 4=3884(LC 1)

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

TOP CHORD 1-2=-3852/203, 2-3=-3849/202, 1-6=-1911/152, 3-4=-1904/156

BOT CHORD 5-6=-125/3352, 4-5=-125/3352

WEBS 2-5=-54/3081

NOTES-

- 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 0-9-0 oc, 2x10 2 rows staggered 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) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 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 at joint(s) 6.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=381, 4=148,
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1242 lb down and 162 lb up at 0-1-4, 1234 lb down and 170 lb up at 2-3-12, 1236 lb down and 31 lb up at 4-3-12, 1236 lb down and 31 lb up at 6-3-12, and 1236 lb down and 31 lb up at 8-3-12, and 1236 lb down and 31 lb up at 10-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

June 9,2021

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Job Truss Truss Type Qty Ply Lot 141 HT 146485532 210459 K2 Common Girder Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

B.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:01 2021 Page 2 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-UOcPF3dZ0HbjOunNZLimymyqEgUR1?8?0HtYyez8HkG

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, 4-6=-20

Concentrated Loads (lb)

Vert: 6=-1242(B) 7=-1234(B) 8=-1236(B) 9=-1236(B) 10=-1236(B) 11=-1236(B)



146485533 210459 L1 Common Supported Gable Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:02 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-yaAnTPeBnbja02MZ72D?UzV4?4yAmXz8Fxd5U5z8HkF Wheeler Lumber. Waverly, KS - 66871, -0-10-8 8-8-0 9-6-8 4-4-0 0-10-8 4-4-0 0-10-8 Scale = 1.20.34x5 = 6.00 12 2x4 || ₅ 2x4 || 3 6 2 12 11 10 9 8 3x10 || 2x4 || 2x4 || 2x4 || 3x10 || 8-8-0 8-8-0 Plate Offsets (X,Y)--[12:0-3-8,Edge] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defI I/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) -0.00120 197/144 n/r MT20 10.0 TCDL Lumber DOL 1.15 BC 0.03 Vert(CT) -0.00n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 8 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

Qty

Lot 141 HT

LUMBER-

BCDL

Job

Truss

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 2x3 SPF No.2

10.0

WEBS **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 8-8-0. (lb) - Max Horz 12=-54(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 11, 9 Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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

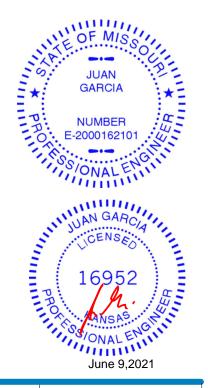
Code IRC2018/TPI2014

- 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-R

Truss Type

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 6) Gable studs spaced at 2-0-0 oc.
- 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) 12, 8, 11, 9.
- 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.



Weight: 30 lb

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

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

except end verticals.

FT = 10%



Job Lot 141 HT Truss Truss Type Qty 146485534 210459 L2 Common 3 Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:02 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-yaAnTPeBnbja02MZ72D?UzV1p4wHmXU8Fxd5U5z8HkF Wheeler Lumber. Waverly, KS - 66871, 9-6-8 -0-10-8 8-8-0 4-4-0 0-10-8 4-4-0 0-10-8 Scale = 1.20.74x5 = 3 6.00 12 0-9-8 7 2x4 || 3x10 II 3x10 II 4-4-0 8-8-0 4-4-0 4-4-0 Plate Offsets (X,Y)--[6:0-3-8,Edge], [8:0-3-8,Edge] LOADING (psf) SPACING-CSI. DEFL. **PLATES** GRIP 2-0-0 in (loc) I/defl I/d **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.27 Vert(LL) -0.01 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.15 Vert(CT) -0.027-8 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code IRC2018/TPI2014 Matrix-R Wind(LL) 0.00 7-8 >999 240 Weight: 26 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

3-7: 2x3 SPF No.2

REACTIONS. (size) 8=0-3-8, 6=0-3-8 Max Horz 8=-55(LC 6)

Max Uplift 8=-70(LC 8), 6=-70(LC 9)

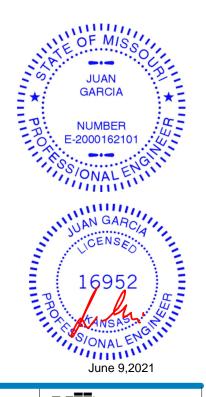
Max Grav 8=448(LC 1), 6=448(LC 1)

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

TOP CHORD 2-3=-412/64, 3-4=-412/64, 2-8=-396/99, 4-6=-396/99

BOT CHORD 7-8=-4/299, 6-7=-4/299

- 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) 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.



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

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

except end verticals.

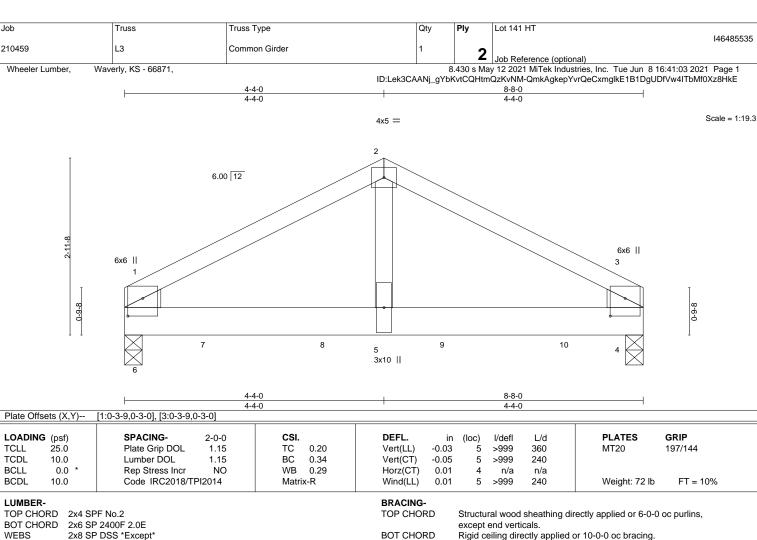
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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, 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



16023 Swingley Ridge Rd Chesterfield, MO 63017



2-5: 2x4 SPF No.2

REACTIONS. (size) 6=0-3-8, 4=0-3-8

Max Horz 6=-47(LC 25)

Max Uplift 6=-97(LC 8), 4=-100(LC 9) Max Grav 6=2879(LC 1), 4=3019(LC 1)

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

TOP CHORD 1-2=-2883/115, 2-3=-2883/114, 1-6=-1435/98, 3-4=-1435/98

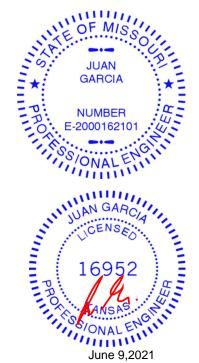
BOT CHORD 5-6=-59/2506, 4-5=-59/2506

WEBS 2-5=-10/2325

NOTES-

- 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 0-9-0 oc, 2x8 2 rows staggered at 0-9-0 oc.
- Bottom chords connected as follows: 2x6 2 rows staggered at 0-7-0 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) 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) 6 except (jt=lb) 4=100.
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1289 lb down and 35 lb up at 1-5-4, 1289 lb down and 35 lb up at 3-5-4, and 1297 lb down and 36 lb up at 5-5-4, and 1297 lb down and 36 lb up at 7-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



Continued on page 2



Job Truss Truss Type Qty Ply Lot 141 HT 146485535 210459 L3 Common Girder Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:03 2021 Page 2 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-QmkAgkepYvrQeCxmglkE1B1DgUDfVw4ITbMf0Xz8HkE

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, 4-6=-20

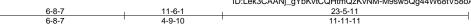
Concentrated Loads (lb)

Vert: 7=-1289(B) 8=-1289(B) 9=-1297(B) 10=-1297(B)

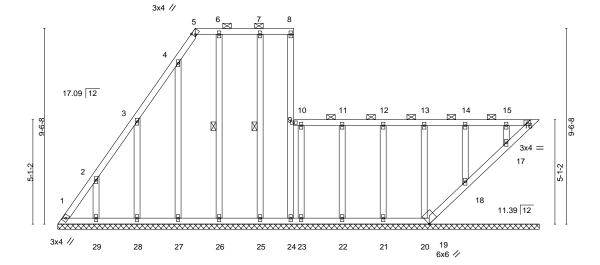
Job Truss Type Lot 141 HT Truss Qty 146485536 210459 LAY2 GABLE Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber.

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:05 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-M9sw5Qg44W68tV58oAni6c7afHzxzrRaxvrm5Pz8HkC



Scale = 1:56.2



	11-6-1	18-1-5	23-5-11
	11-6-1	6-7-5	5-4-6
[5:0 1 2 Edgo]			

Plate Of	156(2 (7, 1)	[5.0-1-2,Euge]										
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	0.10	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	0.23	Horz(CT)	-0.01	16	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 133 lb	FT = 10%

LUMBER-**BRACING-**

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

Plata Offcate (V V)

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.): 5-8, 9-24, Rigid ceiling directly applied or 10-0-0 oc bracing, Except: **BOT CHORD**

6-0-0 oc bracing: 17-18,16-17. 6-26, 7-25

WEBS 1 Row at midpt REACTIONS. All bearings 23-5-11.

(lb) - Max Horz 1=559(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 24, 19, 26, 25, 23, 22, 21, 20, 18, 17 except 1=-256(LC 6),

16=-104(LC 8), 29=-200(LC 8), 28=-190(LC 8), 27=-243(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 24, 16, 19, 29, 28, 26, 25, 23, 22, 21, 20, 18, 17 except 1=588(LC 8), 27=253(LC 15)

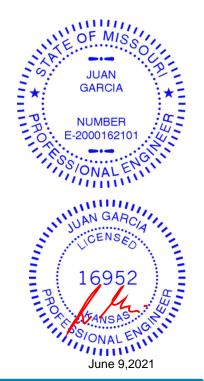
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-729/366, 2-3=-539/283, 3-4=-342/198 TOP CHORD

WEBS 4-27=-213/266

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) 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) 24, 19, 26, 25, 23, 22, 21, 20, 18, 17 except (jt=lb) 1=256, 16=104, 29=200, 28=190, 27=243.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 16, 18, 17.
- 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.







Truss Type Lot 141 HT Job Truss Qty Ply 146485537 210459 LAY3 GABLE Job Reference (optional)

Wheeler Lumber. Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:05 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-M9sw5Qg44W68tV58oAni6c7baHzrzubaxvrm5Pz8HkC

7-2-12 3-7-1 3-7-1

Scale: 1/2"=1

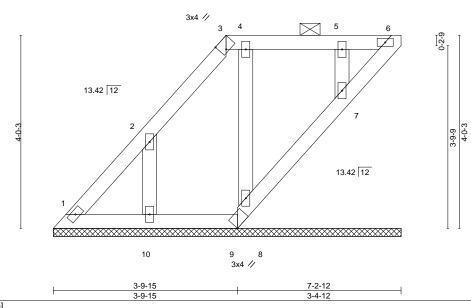


Plate Offsets (X,Y)	[3:0-1-6,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) n/a - n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 27 lb FT = 10%
				•

LUMBER-

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.): 3-6.

BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 8-9.

REACTIONS. All bearings 7-2-12.

(lb) - Max Horz 1=152(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 6, 9, 8, 7 except 10=-137(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 6, 9, 10, 8, 7

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) 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) 6, 9, 8, 7 except
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 8, 7.
- 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.



Job Truss Truss Type Lot 141 HT Qty 146485538 210459 V1 Valley Job Reference (optional)

Wheeler Lumber. Waverly, KS - 66871,

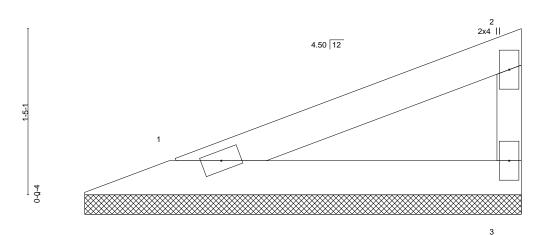
8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:06 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-qLQIImhirqE?VfgLMulxfpfkohIQiLHkAZbJdsz8HkB

Structural wood sheathing directly applied or 3-9-7 oc purlins,

except end verticals.

3-9-7 3-9-7

Scale = 1.9.8



2x4 = 2x4 ||

TOP CHORD

		1		1								
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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	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/TF	PI2014	Matri	x-P						Weight: 9 lb	FT = 10%

BRACING-LUMBER-

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

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

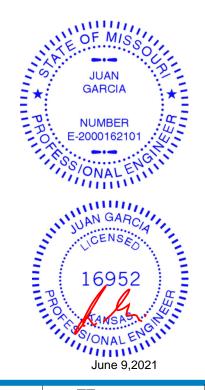
REACTIONS. (size) 1=3-8-13, 3=3-8-13

Max Horz 1=48(LC 5)

Max Uplift 1=-20(LC 8), 3=-28(LC 8) Max Grav 1=128(LC 1), 3=128(LC 1)

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) 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 Lot 141 HT Qty 146485539 210459 V2 Valley Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:07 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-JY_gW6iKb7Ms6pEXvbpAB1CvB5eeRn?tODKsAlz8HkA Wheeler Lumber. Waverly, KS - 66871, 7-4-0 3-8-0 3-8-0 3-8-0 Scale = 1:13.9 4x5 = 2 6.00 12 3 0-0-4 0-0-4 2x4 / 2x4 || 2x4 > 7-4-0 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. I/defl L/d in (loc) Plate Grip DOL TCLL 25.0 TC Vert(LL) 999 MT20 197/144 1.15 0.16 n/a n/a TCDL 10.0 Lumber DOL 1.15 BC 0.08 Vert(CT) 999 n/a n/a BCLI 0.0 WB 0.03 Horz(CT) 3 Rep Stress Incr YES 0.00 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-P Weight: 17 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 **OTHERS**

REACTIONS. (size) 1=7-3-0, 3=7-3-0, 4=7-3-0

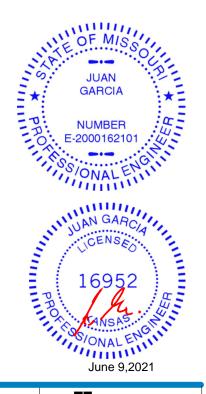
Max Horz 1=27(LC 12)

Max Uplift 1=-33(LC 8), 3=-37(LC 9), 4=-3(LC 8) Max Grav 1=143(LC 1), 3=143(LC 1), 4=261(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 arip 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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 6-0-0 oc purlins.

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



Job Truss Truss Type Lot 141 HT Qty 146485540 210459 V3 Valley Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:07 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-JY_gW6iKb7Ms6pEXvbpAB1Cwd5fHRnBt0DKsAlz8HkA Wheeler Lumber. Waverly, KS - 66871, 2-8-8 5-5-0 2-8-8 Scale = 1:11.2 4x5 = 2 6.00 12 3 0-0-4 2x4 / 2x4 || 2x4 < 5-5-0 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI. L/d in (loc) I/defl Plate Grip DOL TCLL 25.0 TC Vert(LL) MT20 197/144 1.15 0.07 n/a n/a 999 TCDL 10.0 Lumber DOL 1.15 BC 0.04 Vert(CT) 999 n/a n/a BCLI WB 0.02 Horz(CT) 3 0.0 Rep Stress Incr YES 0.00 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-P Weight: 12 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 **OTHERS**

REACTIONS. (size) 1=5-4-0, 3=5-4-0, 4=5-4-0

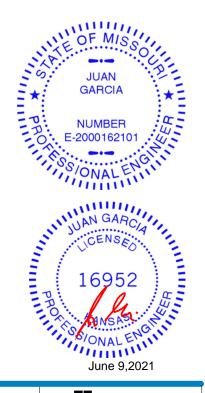
Max Horz 1=-18(LC 13)

Max Uplift 1=-22(LC 8), 3=-26(LC 9), 4=-2(LC 8) Max Grav 1=98(LC 1), 3=98(LC 1), 4=179(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 arip 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.



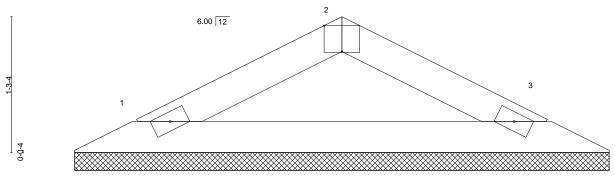
Structural wood sheathing directly applied or 5-5-0 oc purlins.

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





Job Truss Truss Type Lot 141 HT Qty 146485541 210459 V4 Valley Job Reference (optional) 8.430 s May 12 2021 MiTek Industries, Inc. Tue Jun 8 16:41:08 2021 Page 1 ID:Lek3CAANj_gYbKvtCQHtmQzKvNM-nkX2jSiyMRUjkzpjTJKPkEl6ZVziAEm1dt4Qikz8Hk9 Wheeler Lumber. Waverly, KS - 66871, 2-6-8 5-1-0 2-6-8 Scale = 1:10.8 3x4 =



2x4 🖊 2x4 >

5-0-8 5-0-8 Plate Offsets (X,Y)--[2:0-2-0,Edge] LOADING (psf) SPACING-CSI. DEFL. I /d **PLATES** GRIP 2-0-0 in (loc) I/defI **TCLL** 25.0 Plate Grip DOL 1.15 TC 0.06 Vert(LL) 999 197/144 n/a n/a MT20 10.0 Lumber DOL BC 0.15 TCDL 1.15 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

(size) 1=5-0-0, 3=5-0-0

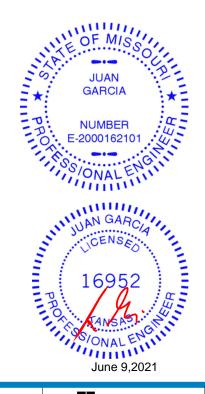
Max Horz 1=17(LC 8)

Max Uplift 1=-22(LC 8), 3=-22(LC 9) Max Grav 1=172(LC 1), 3=172(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 arip 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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 5-1-0 oc purlins.

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

7-0-0



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.

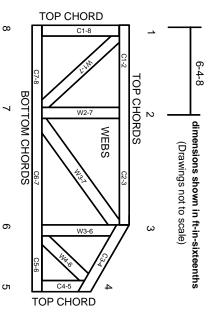
Min size shown is for crushing only

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.