

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 06/04/2021

RE: 210430 Lot 92 RR MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: 210430

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 73 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	146126268	A1	5/18/2021	21	I46126288	D3	5/18/2021
2	146126269	A2	5/18/2021	22	I46126289	D4	5/18/2021
3	I46126270	A3	5/18/2021	23	I46126290	E1	5/18/2021
4	146126271	A4	5/18/2021	24	I46126291	E2	5/18/2021
5	146126272	A5	5/18/2021	25	I46126292	E3	5/18/2021
6	146126273	B1	5/18/2021	26	I46126293	E4	5/18/2021
7	146126274	B2	5/18/2021	27	I46126294	G1	5/18/2021
8	I46126275	B3	5/18/2021	28	I46126295	G2	5/18/2021
9	I46126276	B4	5/18/2021	29	I46126296	G3	5/18/2021
10	146126277	B5	5/18/2021	30	I46126297	G4	5/18/2021
11	146126278	B6	5/18/2021	31	I46126298	G5	5/18/2021
12	146126279	B7	5/18/2021	32	I46126299	H1	5/18/2021
13	I46126280	B8	5/18/2021	33	I46126300	H2	5/18/2021
14	I46126281	B9	5/18/2021	34	I46126301	H3	5/18/2021
15	I46126282	B10	5/18/2021	35	I46126302	H4	5/18/2021
16	I46126283	C1	5/18/2021	36	I46126303	J1	5/18/2021
17	I46126284	C2	5/18/2021	37	I46126304	J2	5/18/2021
18	I46126285	C3	5/18/2021	38	I46126305	J3	5/18/2021
19	146126286	D1	5/18/2021	39	I46126306	J4	5/18/2021
20	146126287	D2	5/18/2021	40	I46126307	J5	5/18/2021

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: 210430

Project Customer: Lot/Block: Address: Subdivision:

City, County: State:

-	•		
No.	Seal#	Truss Name	Date
41	I46126308	J6	5/18/2021
42	I46126309	J7	5/18/2021
43	I46126310	J8	5/18/2021
44	I46126311	J9	5/18/2021
45	I46126312	J10	5/18/2021
46	I46126313	J11	5/18/2021
47	I46126314	J12	5/18/2021
48	I46126315	J13	5/18/2021
49	I46126316	J14	5/18/2021
50	I46126317	J15	5/18/2021
51	I46126318	J16	5/18/2021
52	I46126319	J17	5/18/2021
53	I46126320	J18	5/18/2021
54	I46126321	J19	5/18/2021
55	I46126322	J20	5/18/2021
56	I46126323	J21	5/18/2021
57	I46126324	LAY1	5/18/2021
58	I46126325	LAY2	5/18/2021
59	I46126326	LAY3	5/18/2021
60	I46126327	LAY4	5/18/2021
61	I46126328	LAY5	5/18/2021
62	I46126329	LAY6	5/18/2021
63	I46126330	V1	5/18/2021
64	I46126331	V2	5/18/2021
65	I46126332	V3	5/18/2021
66	I46126333	V4	5/18/2021
67	I46126334	V5	5/18/2021
68	I46126335	V6	5/18/2021
69	I46126336	V7	5/18/2021
70	I46126337	V8	5/18/2021
71	I46126338	V9	5/18/2021
72	I46126339	V10	5/18/2021
73	I46126340	V11	5/18/2021



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20	146126287	D2	5/18/2021	40	146126307	J5	5/18/2021

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.



May 18, 2021



RE: 210430 - Lot 92 RR

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

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City, County: State:

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48	I46126315	J13	5/18/2021
49	I46126316	J14	5/18/2021
50	I46126317	J15	5/18/2021
51	I46126318	J16	5/18/2021
52	I46126319	J17	5/18/2021
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67	I46126334	V5	5/18/2021
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70	I46126337	V8	5/18/2021
71	I46126338	V9	5/18/2021
72	I46126339	V10	5/18/2021
73	I46126340	V11	5/18/2021

Job Truss Truss Type Qty Ply Lot 92 RR 146126268 210430 A1 Half Hip Girder Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:20 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-HFitld3OrZB?3DT??VIRoSAoIDg3mC5rU2uNG6zGdWT

5-6-3

11-8-8

3-2-11

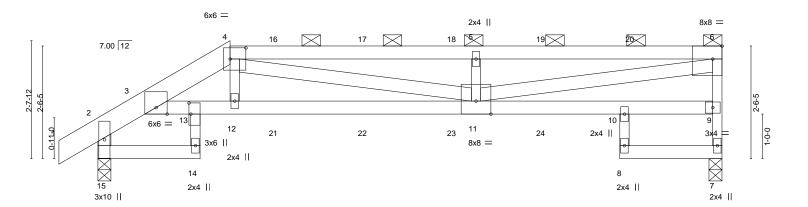
Structural wood sheathing directly applied or 4-9-4 oc purlins,

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

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

Scale = 1:25.8

2-3-8



		2-3-0	11-9	0-0-13		1	11-0-0	14-0-0	
	1	2-3-8	-8-1 ¹	5-6-3		ı	3-2-11	2-3-8	ı
Plate Offsets	s (X,Y)	[4:0-4-4,0-3-0], [6:0-2-8	3,Edge], [13:0-3	-0,0-0-8]					
LOADING ((psf)	SPACING-	2-0-0	CSI.	DEFL. i	n (loc) I/de	efl L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC 0.66	Vert(LL) -0.16	6 11-12 >99	99 360	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC 0.97	Vert(CT) -0.30) 11-12 >55	51 240		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.81	Horz(CT) 0.16	3 7 n	ı/a n/a		
BCDL 1	10.0	Code IRC2018	TPI2014	Matrix-S	Wind(LL) 0.1	5 11-12 >99	99 240	Weight: 60 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x6 SP DSS *Except* TOP CHORD 4-6: 2x4 SPF 2100F 1.8E

0-10-8

2-3-8

0-8-1

BOT CHORD 2x4 SPF No.2 *Except* 13-14,8-10: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 2-15,4-11,6-11: 2x4 SPF No.2

REACTIONS. (size) 7=0-3-8, 15=0-3-8

Max Horz 15=98(LC 5)

Max Uplift 7=-226(LC 5), 15=-249(LC 8) Max Grav 7=1121(LC 1), 15=1204(LC 1)

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

TOP CHORD 2-3=-604/130, 3-4=-2741/649, 4-5=-3439/788, 5-6=-3439/788, 7-9=-1084/240,

6-9=-995/258, 2-15=-1219/273

BOT CHORD 3-13=-604/2325, 12-13=-652/2469, 11-12=-660/2519, 9-10=-74/271 WFBS 4-11=-255/1000, 5-11=-673/273, 6-11=-782/3285, 4-12=-92/598

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=226, 15=249.
- 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) 105 lb down and 72 lb up at 4-0-0, 105 lb down and 72 lb up at 6-0-0, 105 lb down and 72 lb up at 8-0-0, and 105 lb down and 72 lb up at 10-0-0, and 110 lb down and 56 lb up at 12-0-0 on top chord, and 209 lb down and 80 lb up at 2-11-9, 72 lb down and 21 lb up at 4-0-0, 72 lb down and 21 lb up at 6-0-0, 72 lb down and 21 lb up at 8-0-0, and 72 lb down and 21 lb up at 10-0-0, and 68 lb down at 11-9-12 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

Continued on page 2





F MIS

GARCIA

NUMBER E-2000162101

ONALE

16952

May 14,2021

May 14,2021

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Job	Truss	Truss Type	Qty	Ply	Lot 92 RR
					146126268
210430	A1	Half Hip Girder	1	1	
					Job Reference (optional)

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:20 2021 Page 2 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-HFitld3OrZB?3DT??VIRoSAoIDg3mC5rU2uNG6zGdWT

LOAD CASE(S) Standard

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

Uniform Loads (plf)

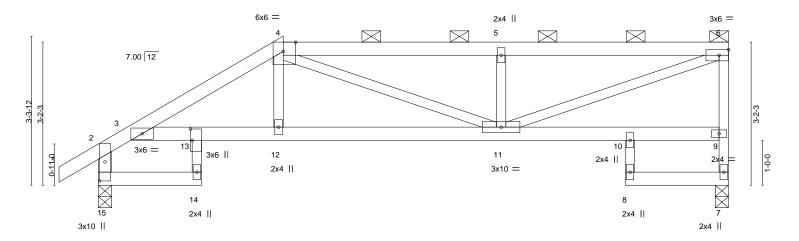
Vert: 1-2=-70, 2-4=-70, 4-6=-70, 14-15=-20, 10-13=-20, 7-8=-20

Concentrated Loads (lb)

Vert: 10=-51(B) 12=-209(B) 16=-89(B) 17=-89(B) 18=-89(B) 19=-89(B) 20=-110(B) 21=-72(B) 22=-72(B) 23=-72(B) 24=-72(B)

Job Truss Truss Type Qty Ply Lot 92 RR 146126269 210430 A2 Half Hip Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:20 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-HFitld3OrZB?3DT??VIRoSAusDogmlarU2uNG6zGdWT 11-8-8 14-0-0 2-3-8 2-3-8 0-10-8 1-9-13 4-10-2 2-9-2 2-3-8

Scale = 1:25.6



	<u> </u>	2-3-8 2-3-8	4-1-5 1-9-13	+	8-11-6 4-10-2	-		11-8-8 2-9-2	14-0- 2-3-	-
Plate Offs	ets (X,Y)	[4:0-3-5,Edge], [13:0-3-0		-2,0-1-8]						
LOADING TCLL	(psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.31	DEFL. Vert(LL)	in (loc) -0.05 11-12	l/defl >999	L/d 360	PLATES MT20	GRIP 197/144
TCDL BCLL BCDL	10.0 0.0 * 10.0	Lumber DOL Rep Stress Incr Code IRC2018/T	1.15 YES	BC 0.47 WB 0.39 Matrix-S	Vert(CT) Horz(CT) Wind(LL)	-0.09 11-12 0.08 7 0.04 12-13	>999 n/a >999	240 n/a 240	Weight: 53 lb	FT = 10%
BCDL	10.0	Code IRC2016/1	P12014	iviatrix-3	vviiid(LL)	0.04 12-13	>999	240	Weight. 55 lb	F1 = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

13-14,8-10: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 2-15: 2x4 SPF No.2

(size) 7=0-3-8, 15=0-3-8 Max Horz 15=123(LC 5)

Max Uplift 7=-117(LC 5), 15=-72(LC 8) Max Grav 7=616(LC 1), 15=693(LC 1)

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

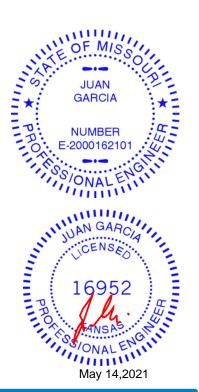
TOP CHORD 2-3=-415/38, 3-4=-1134/183, 4-5=-1119/206, 5-6=-1117/204, 7-9=-590/131,

6-9=-559/139, 2-15=-698/96

BOT CHORD 3-13=-162/827, 12-13=-225/959, 11-12=-225/949 WEBS 4-11=-146/268, 5-11=-399/168, 6-11=-222/1140

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) 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.
- * 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) 15 except (jt=lb)
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 5-1-12 oc purlins,

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

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

6-0-0 oc bracing: 7-8.

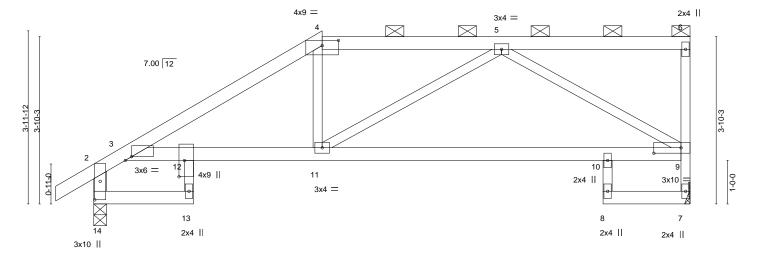




Job Truss Truss Type Qty Lot 92 RR 146126270 210430 **A3** Half Hip Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:21 2021 Page 1

ID:Hr0UloylgMOrZQ4rpild7XzssyG-IRGFyz40ctKshM1BZCpgKgi?Xc6GVkT_iidwoYzGdWS 11-8-8 13-8-8 0-10-8 2-3-8 2-11-8 4-1-8 2-4-0 2-0-0

Scale = 1:26.5



2-11-8 Plate Offsets (X,Y)--[3:0-1-12,Edge], [4:0-4-8,0-1-7], [9:0-7-8,0-1-8], [12:0-4-8,0-1-8], [14:0-5-2,0-1-8] LOADING (psf) SPACING-CSI in (loc) I/def L/d **PLATES** TCLL 25.0 Plate Grip DOL 1.15 TC 0.57 Vert(LL) -0.13 10-11 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.58 Vert(CT) -0.25 10-11 >643 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.48 Horz(CT) 0.12 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.05 11-12 >999 240 Weight: 51 lb Matrix-S

BRACING-

TOP CHORD

BOT CHORD

11-8-8

6-0-0 oc bracing: 7-8.

LUMBER-

REACTIONS.

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

12-13,8-10: 2x3 SPF No.2 WEBS 2x3 SPF No.2 *Except*

2-14: 2x4 SPF No.2

(size) 7=Mechanical, 14=0-3-8

Max Horz 14=121(LC 7)

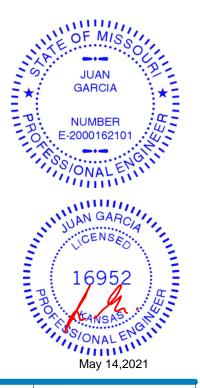
Max Uplift 7=-37(LC 5), 14=-8(LC 8) Max Grav 7=603(LC 1), 14=680(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-430/8, 3-4=-996/17, 4-5=-812/33, 7-9=-577/52, 2-14=-687/28 **BOT CHORD** 3-12=-22/661, 11-12=-74/816, 10-11=-111/698, 9-10=-102/705

WEBS 4-11=0/252, 5-9=-770/115

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) 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.
- * 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) 7, 14.
- 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 5-2-7 oc purlins,

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

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



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

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



Job Truss Truss Type Qty Lot 92 RR 146126271 210430 A4 Half Hip Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:22 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-EdqdAJ5eNBSjJWcO7wKvttF6a0RtECO8xMNUK_zGdWR -0-10-8 0-10-8 11-8-8 13-8-8 2-3-8 4-1-3 5-3-13 2-0-0 Scale = 1:29.7 6x6 =4x9 || 7.00 12 9 8 3x6 =0-11-0 4x9 || 10 2x4 || 12 7 13 6 2x4 || 2x4 || 2x4 || 3x10 || 4-1-3 Plate Offsets (X,Y)--[3:0-1-12,Edge], [4:0-3-5,Edge], [5:0-3-8,Edge], [8:0-3-8,0-1-8], [11:0-4-8,0-1-8], [13:0-5-2,0-1-8] SPACING-**PLATES** LOADING (psf) CSI. (loc) I/defl L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.80 Vert(LL) -0.10 10-11 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.69 Vert(CT) -0.18 10-11 >908 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.44 Horz(CT) 0.12 6 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.08 10-11 >999 240 Weight: 51 lb Matrix-S

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 11-12,7-9: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 2-13: 2x4 SPF No.2

REACTIONS. (size) 6=Mechanical, 13=0-3-8 Max Horz 13=143(LC 7)

Max Uplift 6=-39(LC 5), 13=-12(LC 8) Max Grav 6=603(LC 1), 13=680(LC 1)

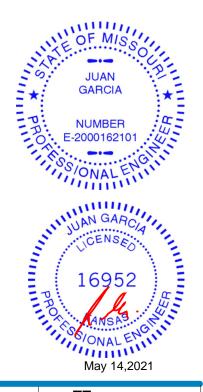
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-440/18, 3-4=-891/15, 6-8=-578/52, 2-13=-686/36 **BOT CHORD** 3-11=-22/550, 10-11=-85/717, 9-10=-88/711, 8-9=-91/720

WEBS 4-10=0/341, 4-8=-725/58

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) 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) 6, 13.
- 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 5-0-4 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, Except:

4-8

6-0-0 oc bracing: 6-7.

1 Row at midpt



Job Truss Truss Type Qty Lot 92 RR 146126272 210430 A5 Half Hip Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:23 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-iqO0Nf6G8UaawgBagdr8Q5oLyQqyzYPHA061tRzGdWQ -0-10-8 0-10-8 13-8-8 3-8-3 11-8-8

3-10-4

6x6 = 3x4 || 7.00 12 2x4 < 10 3x4 = 3x4 II 11 2x4 || 3x4 =8 13 2x4 || 2x4 II 2x4 ||

	2-3-8	7-6-7	11-8-8 _I	13-8-8
	2-3-8	5-2-15	4-2-1	2-0-0
Plate Offsets (X,Y)	[2:0-0-14,0-1-8], [5:0-3-5,Edge], [6	6:Edge,0-2-8], [9:0-3-8,0-1-8], [12:0-2-0,0-0-8]		

1-4-11

LOADIN	G (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 0.57	Vert(LL) -0.07 11-	12 >999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.16 11-	12 >999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.83	Horz(CT) 0.10	7 n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.07 11-	12 >999	240	Weight: 55 lb	FT = 10%

LUMBER-

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

12-13,8-10: 2x3 SPF No.2 2x3 SPF No.2 *Except*

WEBS 2-14: 2x4 SPF No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

2-0-0

Scale = 1:33.4

6-0-0 oc bracing: 7-8.

4-2-1

REACTIONS. (size) 7=Mechanical, 14=0-3-8

Max Horz 14=165(LC 7)

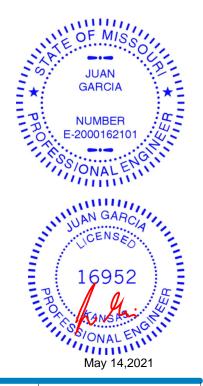
Max Uplift 7=-41(LC 5), 14=-15(LC 8) Max Grav 7=603(LC 1), 14=680(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-363/0, 3-4=-1035/60, 4-5=-724/19, 7-9=-581/53, 2-14=-674/39 **BOT CHORD** 3-12=-83/809, 11-12=-143/894, 10-11=-79/562, 9-10=-88/564

WEBS 5-11=0/378, 5-9=-641/46, 4-11=-380/108

NOTES-

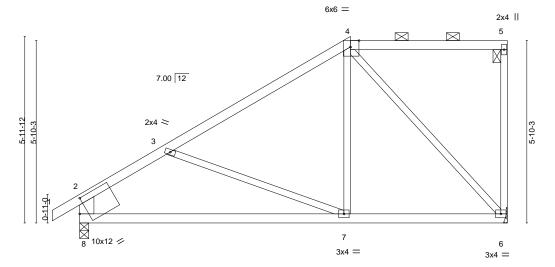
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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) 7, 14.
- 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.







Job Truss Truss Type Qty Lot 92 RR 146126273 210430 В1 Half Hip Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:23 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-iqO0Nf6G8UaawgBagdr8Q5oJRQqbzakHA061tRzGdWQ -0-10-8 0-10-8 2-10-13 5-0-6



13-8-8 Plate Offsets (X,Y)-- [4:0-3-5,Edge], [8:0-3-1,0-5-4]

LOADING (psf	f)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 25.0	0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.12	7-8	>999	360	MT20	197/144
TCDL 10.0	0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.23	7-8	>689	240		
BCLL 0.0	0 *	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.02	6-7	>999	240	Weight: 55 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-8: 2x6 SPF No.2

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

Max Horz 8=187(LC 7)

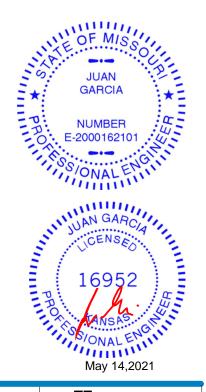
Max Uplift 6=-44(LC 5), 8=-17(LC 8) Max Grav 6=599(LC 1), 8=682(LC 1)

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

2-3=-751/69, 3-4=-529/23, 2-8=-593/63 TOP CHORD

7-8=-133/587, 6-7=-57/368 BOT CHORD **WEBS** 4-7=0/335, 4-6=-548/33

- 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) 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.
- * 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, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 5-0-8 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.

Scale = 1:36.9



Job Truss Truss Type Qty Lot 92 RR 146126274 210430 B2 Half Hip 2 Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:24 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-A0xOb?6uvoiRYqmmELNNyIKWZq8ni1GROgsbPtzGdWP 0-10-8 9-9-14 13-8-8

3-10-10

Structural wood sheathing directly applied or 5-10-8 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.

6x6 = 2x4 || 5 7.00 12 2x4 < 6x6 || 7 6 8 3x4 = 3x4 = 3x4 = 13-8-8

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 0.52 Vert(LL) -0.20 7-8 >801 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.60 Vert(CT) -0.40 7-8 >406 240 BCLL 0.0 * Rep Stress Incr YES WB 0.73 Horz(CT) 0.01 6 n/a n/a	Plate Of	Plate Offsets (X,Y) [2:0-4-1,Edge], [4:0-3-5,Edge]										
TCDL 10.0 Lumber DOL 1.15 BC 0.60 Vert(CT) -0.40 7-8 >406 240 BCLL 0.0 * Rep Stress Incr YES WB 0.73 Horz(CT) 0.01 6 n/a n/a		\(\frac{1}{2}\)			(/							
BCDL 10.0 Code IRC2018/TPI2014 Matrix-S Wind(LL) 0.01 6-7 >999 240 Weight: 56 lb FT = 10%	TCDL	10.0 0.0 *	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.40 7-8 >406 240 Horz(CT) 0.01 6 n/a n/a							

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-8: 2x6 SPF No.2

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

Max Horz 8=208(LC 7)

Max Uplift 6=-47(LC 5), 8=-17(LC 8) Max Grav 6=599(LC 1), 8=682(LC 1)

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

2-3=-722/63, 3-4=-436/30, 2-8=-583/70 TOP CHORD

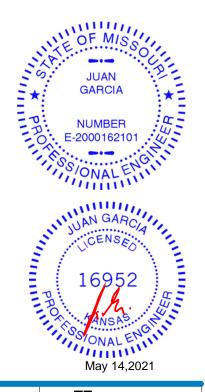
BOT CHORD 7-8=-124/561, 6-7=-53/290

WEBS 3-7=-304/131, 4-7=0/392, 4-6=-559/26

- 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

4-4-15

- 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.
- * 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, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Scale = 1:38.6



Job Truss Truss Type Qty Lot 92 RR 146126275 210430 **B**3 Half Hip 2

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:25 2021 Page 1

Structural wood sheathing directly applied or 5-10-8 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.

 $ID: Hr 0 Uloy lg MOr ZQ4 rpild 7 Xzssy G-eCV mo K7 Xg 6 ql A_Lzo 2 ucV Wtg NEV rR UWad Kb8 xJz Gd WO Mc New More Alloyd New$ 13-8-8 10-10-8 0-10-8 10-11-9 6-3-3 6-3-3 4-8-7 2-8-15

Scale = 1:42.3

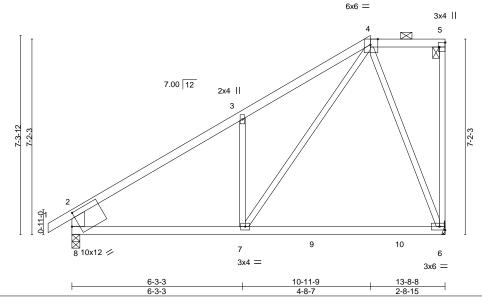


Plate Offsets (X,Y)-- [4:0-3-5,Edge], [5:Edge,0-2-8], [8:0-3-1,0-5-4]

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.17	6-7	>934	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.28	6-7	>573	240		
BCLL 0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.01	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	-0.04	6-7	>999	240	Weight: 57 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-8: 2x6 SPF No.2

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

Max Horz 8=230(LC 7)

Max Uplift 6=-50(LC 5), 8=-16(LC 8) Max Grav 6=689(LC 13), 8=734(LC 13)

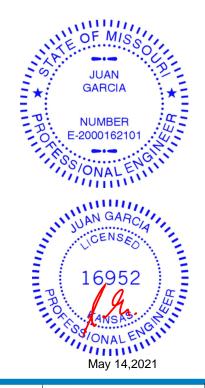
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-774/20, 3-4=-771/129, 2-8=-640/53 TOP CHORD

BOT CHORD 7-8=-85/649

WEBS 3-7=-355/168, 4-7=-107/769, 4-6=-550/85

- 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); 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) 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, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Lot 92 RR 146126276 210430 В4 Half Hip 2

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:27 2021 Page 1

Structural wood sheathing directly applied or 5-10-6 oc purlins,

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

5-6

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

1 Row at midpt

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-abdWD09nCj40PHVLvTw4axy101AKvK5t5e4F0CzGdWM 13-8-8 -0-10-8 0-10-8 6-3-2 6-3-2 5-10-2

Scale = 1:46.4

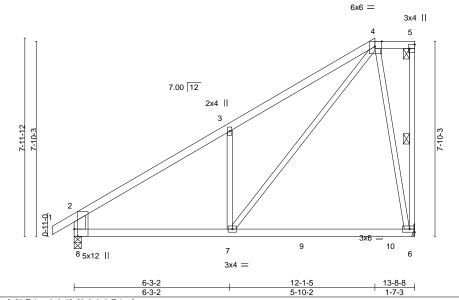


Plate Offsets (X,Y)-- [4:0-3-5,Edge], [5:Edge,0-2-8], [8:0-3-8,Edge]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	/d PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0	0.17 6-7	>918 360	60 MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0	0.29 6-7	>559 240	.0	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0	0.01 6	n/a n/a	/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) -0	0.05 6-7	>999 240	0 Weight: 59	lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2-8: 2x6 SPF No.2

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

Max Horz 8=311(LC 5)

Max Uplift 6=-131(LC 8), 8=-93(LC 8) Max Grav 6=725(LC 15), 8=734(LC 15)

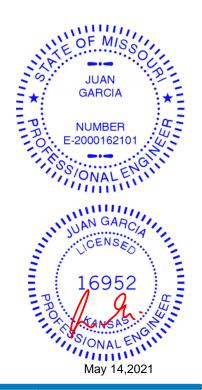
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-795/83, 3-4=-796/260, 2-8=-638/132 TOP CHORD

BOT CHORD 7-8=-139/688

WEBS 3-7=-409/286, 4-7=-266/868, 4-6=-638/166

- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) 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) 8 except (jt=lb)
- 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.





Job Truss Truss Type Qty Ply Lot 92 RR 146126277 210430 **B**5 Half Hip 2

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:27 2021 Page 1 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-abdWD09nCj40PHVLvTw4axy?F1BlvKQt5e4F0CzGdWM

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

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

3-6

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

1 Row at midpt

-0-10-8 0-10-8 6-3-2 6-3-2 13-3-0 6-11-14

> Scale = 1:49.9 6x8 =

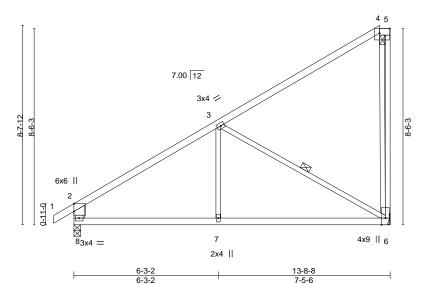


Plate Offsets (X,Y)--[2:0-4-1,Edge], [4:0-5-5,Edge] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defl L/d TCLL 25.0 Plate Grip DOL 1.15 TC 0.68 Vert(LL) -0.10 6-7 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.45 Vert(CT) -0.21 6-7 >754 240 BCLL 0.0 Rep Stress Incr YES WB 0.90 Horz(CT) 0.01 6 n/a n/a BCDL Code IRC2018/TPI2014 FT = 10% 10.0 Matrix-S Wind(LL) -0.05 6-7 >999 240 Weight: 59 lb

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

2-8: 2x6 SPF No.2

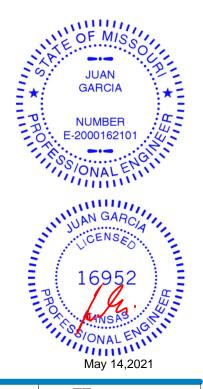
(size) 6=Mechanical, 8=0-3-8 Max Horz 8=273(LC 7) Max Uplift 6=-58(LC 8), 8=-8(LC 8) Max Grav 6=608(LC 13), 8=682(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-733/14, 5-6=-148/327, 2-8=-612/45

BOT CHORD 7-8=-96/573, 6-7=-96/573

WEBS 3-7=0/299, 3-6=-608/119, 4-6=-563/215

- 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) 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.
- * 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, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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



Job Truss Truss Type Qty Ply Lot 92 RR 146126278 210430 B6 Monopitch 2

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:29 2021 Page 1 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-W_IHeiA1jKKjebfk1uyYfM2K8ruhNMcAYyZL44zGdWK

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

4-5, 3-5

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

except end verticals.

1 Row at midpt

-0-10-8 0-10-8 6-3-2 6-3-2

Scale = 1:50.0

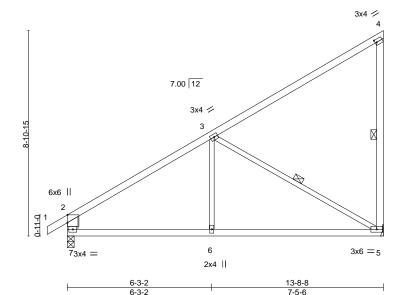


Plate Offsets (X,Y)--[2:0-4-1,Edge], [4:0-0-13,0-1-8] SPACING-CSI. **PLATES** GRIP LOADING (psf) DEFL. in (loc) I/defl L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.66 Vert(LL) -0.09 5-6 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.42 Vert(CT) -0.19 5-6 >826 240 BCLL 0.0 Rep Stress Incr YES WB 0.40 Horz(CT) 0.01 5 n/a n/a BCDL Code IRC2018/TPI2014 FT = 10% 10.0 Matrix-S Wind(LL) -0.05 >999 240 Weight: 55 lb 5-6

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x3 SPF No.2 *Except* 4-5: 2x4 SPF No.2, 2-7: 2x6 SPF No.2

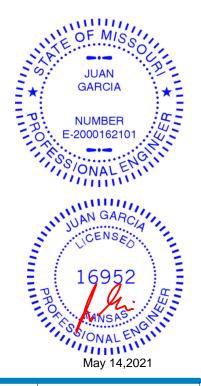
REACTIONS. (size) 5=Mechanical, 7=0-3-8

Max Horz 7=283(LC 7) Max Uplift 5=-64(LC 8), 7=-6(LC 8) Max Grav 5=616(LC 13), 7=680(LC 1)

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

2-3=-733/11, 2-7=-607/43 TOP CHORD BOT CHORD 6-7=-100/577, 5-6=-100/577 **WEBS** 3-6=0/291, 3-5=-625/123

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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, 7.
- 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 Lot 92 RR 146126279 210430 **B7** Monopitch Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:30 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

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

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

except end verticals.

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-?AJfr2BfUeSaGlEwbbTnCZaXQFGw6qaJncJvcXzGdWJ 13-8-8 -0-10-8 0-10-8 6-3-3 6-3-3 11-8-0 5-4-14 2-0-8

Scale = 1:50.2

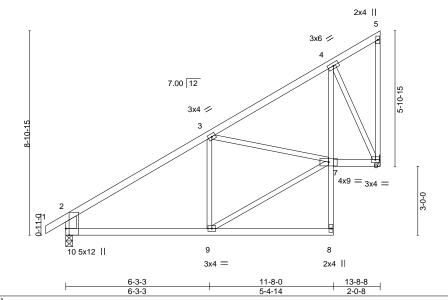


Plate Offsets (X, Y)	[10:0-3-8,Eage]

LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -	-0.03 8	-9 >999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -	-0.07	-9 >999	240		
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-S	Wind(LL) -	-0.01 8	-9 >999	240	Weight: 62 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

4-8: 2x3 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-10: 2x6 SPF No.2

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

Max Horz 10=246(LC 5)

Max Uplift 6=-69(LC 8), 10=-1(LC 8) Max Grav 6=617(LC 13), 10=682(LC 1)

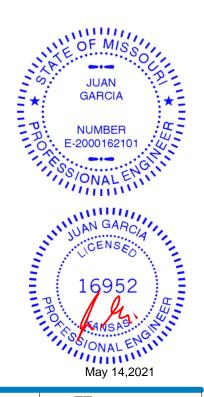
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-708/1, 3-4=-412/34, 2-10=-611/42 **BOT CHORD** 9-10=-78/534, 4-7=-35/431, 6-7=-55/286

WEBS 7-9=-93/610, 4-6=-639/104

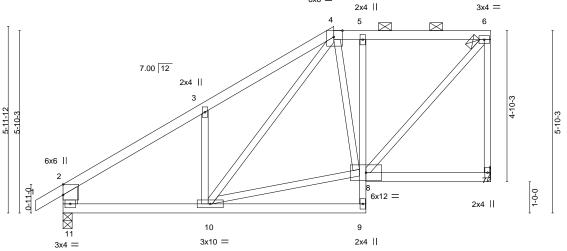
NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 10.
- 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 92 RR 146126280 210430 **B8** Half Hip Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:31 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-TMs13OCHFyaRuvo68J?0kn7ibebzrJJT?G3S9zzGdWI -0-10-8 0-10-8 8-8-2 9-8-8 13-8-8 4-6-9 4-1-9 1-0-6 4-0-0 Scale = 1:36.9 6x6 = 2x4 || 3x4 =



4-6-9 Plate Offsets (X,Y)-- [2:0-4-1,Edge], [4:0-3-5,Edge]

LOADING	G (psf)	SPACING- 2-	0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	.15	TC	0.53	Vert(LL)	-0.04	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1	.15	BC	0.37	Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr Y	'ES	WB	0.20	Horz(CT)	-0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	14	Matrix	x-S	Wind(LL)	0.02	9-10	>999	240	Weight: 63 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

5-9: 2x3 SPF No.2 2x3 SPF No.2 *Except*

2-11: 2x6 SPF No.2 REACTIONS. (size) 7=Mechanical, 11=0-3-8

Max Horz 11=175(LC 5)

Max Uplift 7=-44(LC 5), 11=-17(LC 8) Max Grav 7=599(LC 1), 11=682(LC 1)

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

TOP CHORD 2-3=-730/22, 3-4=-671/102, 4-5=-384/48, 5-6=-388/47, 6-7=-556/62, 2-11=-604/44

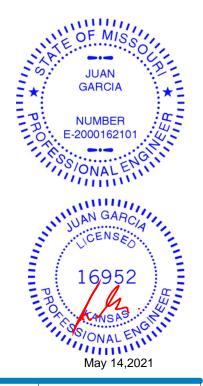
BOT CHORD 10-11=-80/539, 5-8=-250/73

8-10=-63/366, 6-8=-51/578, 4-10=-80/265 **WEBS**

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); 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.
- * 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) 7, 11.
- 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 5-11-7 oc purlins,

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

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





Job Truss Truss Type Qty Ply Lot 92 RR 146126281 210430 B9 Half Hip Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:32 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-xYQPGkDw0FilV3NJi0WFH_grW2wRamMcEwo0hPzGdWH -0-10-8 0-10-8 7-6-7 7-6-7 9-8-8 13-8-8 4-0-0 Scale = 1:32.8 6x6 = 2x4 || 3x4 = \boxtimes \boxtimes \bowtie 7.00 12 5-3-12 5-2-3 1-0-0 5x12 = 2x4 || 9 8 3x4 = 2x4 | 10x12 🗸 13-8-8 Plate Offsets (X,Y)--[3:0-3-5,Edge], [10:0-3-1,0-5-4] SPACING-L/d LOADING (psf) CSI. DEFL. in (loc) I/def **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.06 9-10 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.35 Vert(CT) -0.13 9-10 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.21 Horz(CT) 0.01 6 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.02 9 >999 240 Weight: 55 lb Matrix-S LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-10-1 oc purlins, 2x4 SPF No.2 *Except* **BOT CHORD** except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5. 4-8: 2x3 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x3 SPF No.2 *Except* 2-10: 2x6 SPF No.2 REACTIONS. (size) 6=Mechanical, 10=0-3-8 Max Horz 10=153(LC 5) Max Uplift 6=-41(LC 5), 10=-15(LC 8) Max Grav 6=599(LC 1), 10=682(LC 1) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-659/21, 3-4=-445/30, 4-5=-450/31, 5-6=-557/60, 2-10=-620/69 **BOT CHORD** 9-10=-57/448, 4-7=-264/81 **GARCIA WEBS** 7-9=-46/495, 5-7=-47/615

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) 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.
- * 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, 10.
- 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.







Job Truss Truss Type Qty Lot 92 RR 146126282 210430 B10 Half Hip Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:24 2021 Page 1 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-A0xOb?6uvoiRYqmmELNNyIKVaqDzi8hROgsbPtzGdWP -0-10-8 0-10-8 7-9-13 13-8-8 6-4-11 1-5-1 5-10-11 Scale = 1:29.9 6x6 =2x4 || 3x6 = 4 7.00 12 1-0-0 6x12 =2x4 || ∑10x12 ≠ 9 8 3x4 = 2x4 || 6-4-11 13-8-8 6-4-11 5-10-11 Plate Offsets (X,Y)--[3:0-3-5,Edge], [10:0-3-1,0-5-4] **PLATES** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.58 Vert(LL) -0.05 6-7 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.26 Vert(CT) -0.11 6-7 >999 240

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.01

0.02

6

4

n/a

>999

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.): 3-5.

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

LUMBER-

BCLL

BCDL

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

0.0

10.0

4-8: 2x3 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-10: 2x6 SPF No.2

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

Max Horz 10=131(LC 5)

Max Uplift 6=-38(LC 5), 10=-12(LC 8) Max Grav 6=599(LC 1), 10=682(LC 1)

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=-693/16, 3-4=-670/36, 4-5=-681/35, 5-6=-539/70, 2-10=-616/58

BOT CHORD 9-10=-57/489, 4-7=-450/123

WEBS 7-9=-37/598, 3-7=-58/501, 5-7=-62/747

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

WB

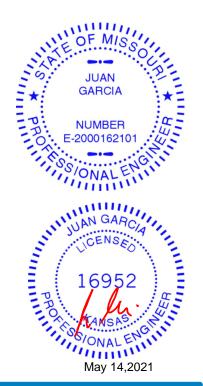
Matrix-S

0.26

- 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.

YES

- * 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, 10.
- 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.



FT = 10%

Weight: 53 lb





Job Truss Truss Type Qty Lot 92 RR 146126283 210430 C₁ Roof Special Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:33 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-PI_oU4DYnZq97CyVGk1UqCC1FSHDJBBITaYZDszGdWG -0-10-8 0-10-8 6-6-0 7-9-0 4-2-8 1-3-0 Scale = 1:29.6 4x5 || 6x6 = 4x5 = 6 7.00 12 2x4 || 2-10-5 3 3x6 / 0-11-0 8 1-0-0 5x12 = 4x9 = 2x4 || 10 6.00 12 2x4 || 7-9-0 Plate Offsets (X,Y)--[5:0-2-7,Edge] **PLATES** LOADING (psf) SPACING-2-0-0 CSI DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.58 Vert(LL) -0.05 8-9 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.32 Vert(CT) -0.11 8-9 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.37 Horz(CT) 0.04 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.03 8-9 >999 240 Weight: 53 lb Matrix-S BRACING-TOP CHORD TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins,

BOT CHORD

LUMBER-

WEBS

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

2-10: 2x4 SPF No.2 REACTIONS. (size) 7=Mechanical, 10=0-3-8

Max Horz 10=127(LC 5)

Max Uplift 7=-24(LC 9), 10=-12(LC 8) Max Grav 7=603(LC 1), 10=680(LC 1)

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

 $2 - 3 = -1344/62,\ 3 - 4 = -1370/147,\ 4 - 5 = -977/35,\ 5 - 6 = -833/13,\ 6 - 7 = -549/52,\ 2 - 10 = -667/45$ TOP CHORD **BOT CHORD**

WEBS 4-9=-137/713, 4-8=-1/594, 5-8=-765/90, 6-8=-18/862, 2-9=-30/1068

- 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) 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.
- * 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 10.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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



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

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



Job Truss Truss Type Qty Lot 92 RR 146126284 210430 C2 Roof Special 5 Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:34 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-txYAhPEAYty0IMXhqRYjMPIHosY12eMviEH6llzGdWF -0-10-8 0-10-8 13-0-0 6-6-0 10-8-8 2-3-8 4-2-8 4-2-8 2-3-8 Scale = 1:30.0 4x5 || 7.00 12 2x4 || 2x4 || 5 3x6 < 3x6 / 0-11-0 8 6x12 = 6x12 = 10 6.00 12 2x4 || 2x4 || 2-3-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) -0.20 >769 360 197/144 **TCLL** 1.15 0.28 8-9 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.60 Vert(CT) -0.42 8-9 >361 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.37 Horz(CT) 0.08 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Wind(LL) 0.05 8-9 >999 240 Weight: 49 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD BOT CHORD

2x4 SPF No.2 2x4 SPF No.2

2x3 SPF No.2 *Except* **WEBS** 2-10,6-7: 2x4 SPF No.2

REACTIONS. (size) 10=0-3-8, 7=0-3-8

Max Horz 10=135(LC 5) Max Uplift 10=-90(LC 8), 7=-66(LC 9) Max Grav 10=646(LC 1), 7=569(LC 1)

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

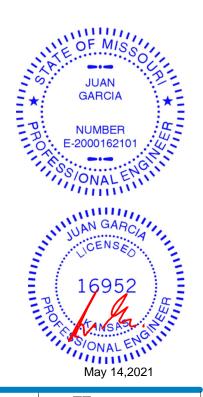
2-3=-1326/166, 3-4=-1344/288, 4-5=-1377/245, 5-6=-1349/120, 2-10=-662/111, TOP CHORD

6-7=-590/65

BOT CHORD 8-9=-34/517

WEBS 4-8=-162/810, 4-9=-194/857, 2-9=-102/1067, 6-8=-71/1080

- 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.
- * 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) Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 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.



Structural wood sheathing directly applied or 4-7-11 oc purlins,

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

except end verticals.





Job Truss Truss Type Qty Lot 92 RR 146126285 210430 C3 Roof Special Structural Gable Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:35 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-L76YulFoJA4tMW6uN83yvdlSYGuGn5c2wu1glkzGdWE -0-10-8 0-10-8 10-8-8 13-0-0 6-6-0 2-3-8 4-2-8 4-2-8 2-3-8 Scale = 1:28.4 4x5 || 4x5 || 7.00 12 3 3x6 <> 3x6 / 8 1-0-0 6x12 = 6x12 = \boxtimes 6.00 12 10 10-8-8 13-0-0 Plate Offsets (X,Y)--[4:0-0-10,0-2-0] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.20 8-9 >769 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.60 Vert(CT) -0.42 8-9 >361 240 BCLL 0.0 Rep Stress Incr YES WB 0.37 Horz(CT) 0.08 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.05 8-9 >999 240 Weight: 55 lb Matrix-S BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-10,6-7: 2x4 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. (size) 10=0-3-8, 7=0-3-8

Max Horz 10=135(LC 5)

Max Uplift 10=-90(LC 8), 7=-66(LC 9)

Max Grav 10=646(LC 1), 7=569(LC 1)

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

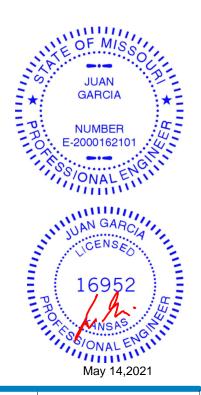
TOP CHORD 2-3=-1326/166, 3-4=-1344/288, 4-5=-1377/245, 5-6=-1349/120, 2-10=-662/111,

6-7=-590/65

8-9=-34/517 **BOT CHORD**

WEBS 4-8=-162/810, 4-9=-194/857, 2-9=-102/1067, 6-8=-71/1080

- 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) Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 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.



Structural wood sheathing directly applied or 4-7-11 oc purlins,

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

except end verticals.





Job Truss Truss Type Qty Ply Lot 92 RR 146126286 210430 D1 HIP GIRDER 2 Z Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:37 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

Structural wood sheathing directly applied or 5-2-7 oc purlins,

3-20, 6-15

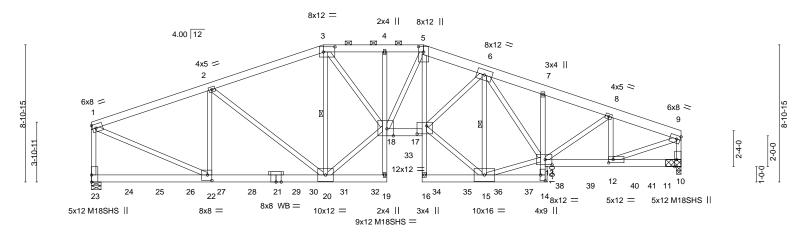
except end verticals, and 2-0-0 oc purlins (4-1-3 max.): 3-5.

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

1 Row at midpt

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-HWEIJRG2roLbcqGGVZ6Q_2NkN3ZRFrcLOBWnMdzGdWC 25-6-9 29-6-0 33-9-4 38-4-0 7-4-11 4-1-10 2-4-10 3-11-7 3-11-7 4-3-4 4-6-12

Scale = 1:74.9



		7-8-3	7-4-	11	4-1-10	2-3-8	4-0-9		3-11-7	4-3-4		4-6-12		
Plate Offs	sets (X,Y)	[3:0-9-0,0-4-0], [5:0-4-3,0	0-4-0], [9:Edge	,0-2-12], [10:	0-5-8,Edge]	, [12:0-3-8,0-2-8],	13:0-5-4	,0-4-0],	[14:Edg	e,0-3-8], [17	:0-7-8,0-6	6-4], [18:0-5-0,	Edge],	
		[22:0-3-8,0-4-4]												
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	P	LATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.34	16	>999	360	l N	1T20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.60	16	>759	240	N	118SHS	197/144	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.33	10	n/a	n/a				
BCDI	10.0	Code IRC2018/T	PI2014	Matrix	c-S	Wind(LL)	0.22	16	>999	240	l v	Veight: 634 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD 2x6 SPF No.2 *Except*

5-9: 2x8 SP DSS

2x6 SP 2400F 2.0E *Except*

BOT CHORD 4-19,5-16,7-14: 2x4 SPF No.2

WEBS 2x4 SPF No.2 *Except* 18-20,15-17,1-22,9-12: 2x4 SPF 2100F 1.8E

OTHERS 2x3 SPF No.2

(size) 23=0-7-8, 10=(0-3-8 + bearing block) (req. 0-5-7) REACTIONS.

Max Horz 23=-69(LC 17)

Max Uplift 23=-739(LC 4), 10=-677(LC 5) Max Grav 23=7471(LC 1), 10=6969(LC 1)

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

TOP CHORD 1-2=-8086/867, 2-3=-8388/978, 3-4=-12474/1421, 4-5=-12511/1424, 5-6=-14038/1581,

6-7=-10622/1187, 7-8=-10669/1153, 8-9=-9122/919, 1-23=-6211/682, 9-10=-6596/676 20-22=-767/7599, 18-19=-21/385, 17-18=-1384/13351, 16-17=-62/536, 5-17=-599/5511,

BOT CHORD 14-15=-101/963, 13-14=-19/471, 7-13=-324/78, 12-13=-866/8573

WEBS 2-22=-884/201, 2-20=-86/550, 3-20=-4238/440, 18-20=-994/9762, 3-18=-832/7915,

5-18=-1709/199, 15-17=-1186/11237, 6-17=-628/6302, 6-15=-7887/827, 13-15=-845/7984, 6-13=-232/2539, 8-13=-232/1899, 8-12=-1809/279, 1-22=-866/8225, 9-12=-905/9044

NOTES-

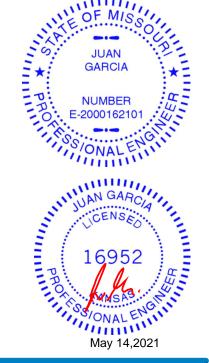
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) 2x6 SP 2400F 2.0E bearing block 12" long at it. 10 attached to each face with 3 rows of 10d (0.131"x3") nails spaced 3" o.c. 12 Total fasteners per block. Bearing is assumed to be SPF No.2.
- 4) Unbalanced roof live loads have been considered for this design.
- 5) 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
- 6) Provide adequate drainage to prevent water ponding.
- 7) All plates are MT20 plates unless otherwise indicated
- 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, with BCDL = 10.0psf.

Continued on page 2







Job	Truss	Truss Type	Qty	Ply	Lot 92 RR	
040400	D4	LUD CIDDED	_			146126286
210430	וט	HIP GIRDER	1	2	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:37 2021 Page 2 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-HWEIJRG2roLbcqGGVZ6Q_2NkN3ZRFrcLOBWnMdzGdWC

NOTES-

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 23=739, 10=677.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 591 lb down and 48 lb up at 0-1-12, 583 lb down and 59 lb up at 2-4-0, 583 lb down and 61 lb up at 4-4-0, 579 lb down and 64 lb up at 6-4-0, 579 lb down and 67 lb up at 8-4-0, 610 lb down and 70 lb up at 10-4-0, 623 lb down and 151 lb up at 12-4-0, 579 lb down and 78 lb up at 14-4-0, 577 lb down and 84 lb up at 16-4-0, 577 lb down and 84 lb up at 18-4-0, 579 lb down and 89 lb up at 20-4-0, 579 lb down and 78 lb up at 22-4-0, 623 lb down and 151 lb up at 24-4-0, 617 lb down and 70 lb up at 26-4-0, 579 lb down and 67 lb up at 28-4-0, 579 lb down and 64 Ib up at 30-4-0, 579 lb down and 61 lb up at 32-4-0, and 579 lb down and 58 lb up at 34-4-0, and 583 lb down and 44 lb up at 36-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert 1-3=-70 3-5=-70 5-9=-70 19-23=-20 17-18=-20 14-16=-20 10-13=-20

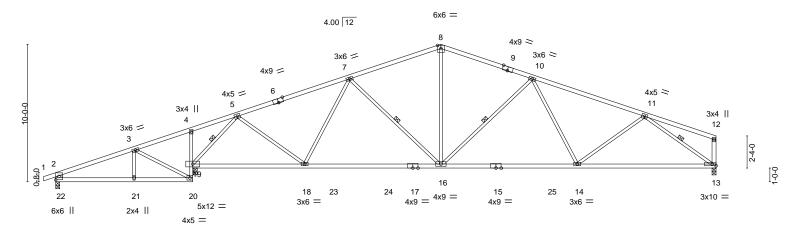
Concentrated Loads (lb)

Vert: 23=-591(F) 24=-583(F) 25=-583(F) 26=-579(F) 27=-579(F) 28=-579(F) 29=-579(F) 30=-579(F) 31=-577(F) 32=-577(F) 33=-579(F) 34=-579(F) 35=-579(F) 36=-579(F) 37=-579(F) 38=-579(F) 39=-579(F) 40=-579(F) 41=-583(F)

Job Truss Truss Type Qty Ply Lot 92 RR 146126287 210430 D2 Roof Special 3 Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:38 2021 Page 1

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-miohXnHgc5TSD_rT3HdfXFwqhTu2_lkVcrFKu3zGdWB 34-7-11 42-9-10 48-0-0 -0₋10₋8 0-10-8 5-8-6 4-3-3 3-2-14 8-1-15 6-7-11 6-7-11 8-1-15 5-2-6

Scale = 1:83.7



-	5-1-0	4-10-8 0-0-8	8-1-2		-10-14	9-10-14		10-1-2	
Plate Offse	ts (X,Y)	[6:0-4-8,Edge], [9:0-4-8,E	dge]						
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 0.86	Vert(LL)	-0.29 16-18 >999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC 0.73	Vert(CT)	-0.50 16-18 >920	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.99	Horz(CT)	0.07 13 n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-S	Wind(LL)	0.11 14-16 >999	240	Weight: 176 lb	FT = 10%

BRACING-

WEBS

TOP CHORD

BOT CHORD

37-10-14

1 Row at midpt

Structural wood sheathing directly applied, except end verticals.

5-19, 7-16, 10-16, 11-13

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

LUMBER-

2x4 SPF No.2 TOP CHORD

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

20-22: 2x4 SPF No.2, 4-20: 2x3 SPF No.2

2x3 SPF No.2 *Except* WEBS

2-22: 2x6 SPF No.2, 12-13: 2x4 SPF No.2

REACTIONS. (size) 22=0-3-8, 19=0-3-8 (req. 0-3-12), 13=0-3-8

Max Horz 22=189(LC 8)

Max Uplift 22=-94(LC 4), 19=-358(LC 4), 13=-255(LC 5) Max Grav 22=449(LC 21), 19=2371(LC 2), 13=1792(LC 2)

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

TOP CHORD 2-3=-452/61, 3-4=-76/282, 4-5=-47/321, 5-7=-2277/322, 7-8=-2185/360,

8-10=-2184/349, 10-11=-2691/385, 2-22=-400/129 21-22=-156/369, 20-21=-156/369, 19-20=-59/342, 18-19=-237/1310, 16-18=-258/2212,

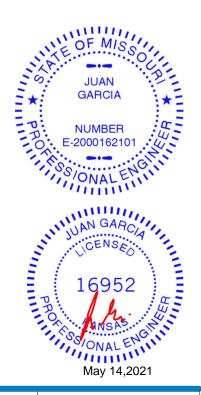
BOT CHORD 14-16=-292/2430, 13-14=-353/2103

3-20=-633/166, 5-19=-2345/372, 5-18=0/988, 7-18=-360/121, 7-16=-453/216,

WEBS 8-16=-95/1019, 10-16=-684/246, 11-14=0/490, 11-13=-2509/433

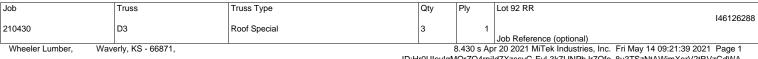
NOTES-

- 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) WARNING: Required bearing size at joint(s) 19 greater than input bearing size.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22 except (jt=lb) 19=358, 13=255.
- 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/TPL1

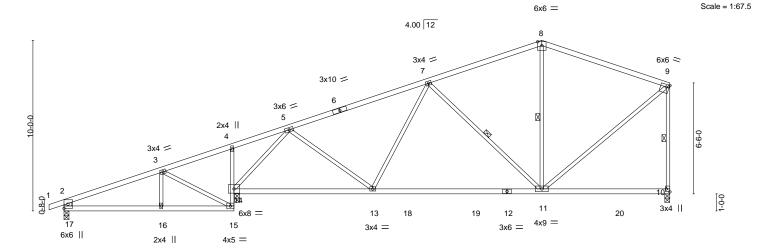








ID:Hr0UloyIgMOrZQ4rpild7XzssyG-EvL3k7IJNPbJr7Qfc_8u3TSzNtAWjmXerV?tRVzGdWA -0-10-8 0-10-8 28-0-0 5-8-6 4-3-3 3-2-13 8-2-0 6-7-11 7-6-0



	5-8-6 9-11-8 10-ρ-0	18-1-1	28-0-0	35-6-0
	5-8-6 4-3-3 0-0-8	8-1-1	9-10-15	7-6-0
Plate Offsets (X,Y)	[9:0-2-0,0-1-12], [10:Edge,0-2-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	
TCLL 25.0	Plate Grip DOL 1.15	TC 0.99	Vert(LL) -0.31 11-13 >994 360	0 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.49 11-13 >625 240)
BCLL 0.0 *	Rep Stress Incr YES	WB 0.95	Horz(CT) -0.02 10 n/a n/a	a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.04 11-13 >999 240	Weight: 134 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

4-15: 2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 2-17: 2x6 SPF No.2

(size) 17=0-3-8, 14=0-3-8, 10=0-3-8

Max Horz 17=279(LC 5)

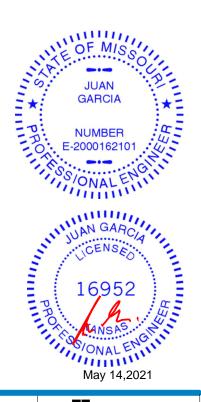
Max Uplift 17=-89(LC 4), 14=-305(LC 4), 10=-148(LC 4) Max Grav 17=468(LC 21), 14=1731(LC 2), 10=1231(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-557/24. 5-7=-1370/222. 7-8=-888/200. 8-9=-871/207. 2-17=-416/124.

9-10=-1103/186

16-17=-164/413, 15-16=-164/413, 14-15=-60/343, 13-14=-208/856, 11-13=-178/1185 **BOT CHORD** WEBS 3-15=-616/168, 5-14=-1509/301, 5-13=0/473, 7-11=-618/230, 9-11=-104/998

- 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) 17 except (jt=lb) 14=305, 10=148.
- 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, except end verticals.

7-11, 8-11, 9-10

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

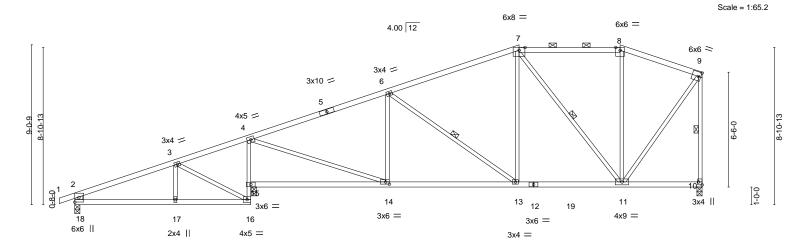
1 Row at midpt







ID:Hr0UloyIgMOrZQ4rpild7XzssyG-i5vRyTJx8jj9TH_rAif7cg?DdHbKSJpn49kRzyzGdW9 25-1-11 -0-10-8 0-10-8 30-10-5 35-6-0 5-8-6 4-3-3 7-8-13 7-5-6 5-8-10



	1	5-8-6 _I 9	9-11-8 10-ρ-	0 17-8-5	1	25-1-11	1	30-10-5	1 35-6-0	1
		5-8-6	4-3-3 0-d-8	3 7-8-5		7-5-6	'	5-8-10	4-7-11	<u> </u>
Plate Offse	ets (X,Y)	[10:Edge,0-2-8], [14:0-2	!-8,0-1-8]							
LOADING	i (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.10 14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.61	Vert(CT)	-0.20 14-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.57	Horz(CT)	-0.02 10	n/a	n/a		
BCDL	10.0	Code IRC2018/T	TPI2014	Matrix-S	Wind(LL)	0.05 13-14	>999	240	Weight: 141 lb	FT = 10%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

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

4-16: 2x3 SPF No.2 2x3 SPF No.2 *Except*

WEBS 2-18: 2x6 SPF No.2

(size) 18=0-3-8, 15=0-3-8, 10=0-3-8

Max Horz 18=292(LC 5)

Max Uplift 18=-92(LC 4), 15=-314(LC 4), 10=-173(LC 4) Max Grav 18=472(LC 21), 15=1708(LC 2), 10=1191(LC 2)

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

TOP CHORD 2-3=-565/26, 4-6=-1409/259, 6-7=-1112/252, 7-8=-595/188, 8-9=-650/184,

2-18=-421/128, 9-10=-1132/203

BOT CHORD 17-18=-150/406, 16-17=-150/406, 15-16=-42/317, 4-15=-1287/316, 13-14=-211/1272, 11-13=-165/982

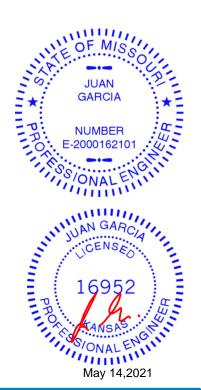
WEBS 3-16=-553/128, 4-14=-177/1397, 6-14=-263/157, 6-13=-374/163, 7-13=-15/476,

7-11=-664/138, 9-11=-137/1016

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) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18 except (jt=lb) 15=314, 10=173.
- 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/TPL1
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 4-2-9 oc purlins,

6-13, 7-11, 9-10

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

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

6-0-0 oc bracing: 14-15.

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 sand truss systems, see

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



Job Truss Truss Type Qty Lot 92 RR 146126290 Hip 210430 E1 Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:41 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-AHTp9pKZv0r04RZ1kPAM8uXKdgtqBgTxJpU_VOzGdW8

Structural wood sheathing directly applied or 2-1-10 oc purlins,

4-15, 6-14, 7-13, 9-11

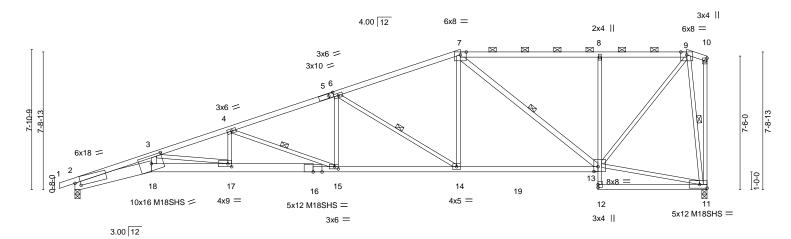
except end verticals, and 2-0-0 oc purlins (3-1-0 max.): 7-9.

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

1 Row at midpt

-0-10-8 0-10-8 29-4-8 4-4-13 5-11-14 6-11-7 7-8-13 4-11-13

Scale = 1:64.7



	4	-3-8 8-8-5	1	14-8-4	1	21-7-11	1	29-4	-8	35-3-8	<u>35</u> ₁6-0
	۱ 4	-3-8 4-4-13	1	5-11-14	1	6-11-7		7-8-1	3	5-11-0	0-2 ¹ -8
Plate Offse	ets (X,Y)	[2:0-3-11,0-2-5], [5:0-3-3,0)-1-8], [13:0-2	-12,0-3-4], [15:	0-2-8,0-1-8	8], [17:0-2-8,0-2-0], [18:0-8-0,0-5-	4]			
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0	.94	Vert(LL)	-0.49 17-18	>862	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0	.85	Vert(CT)	-0.86 17-18	>493	240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB 0	.92	Horz(CT)	0.35 11	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matrix-S	3	Wind(LL)	0.38 17-18	>999	240	Weight: 168 lb	FT = 10%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD 1-5: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

2-18: 2x8 SP DSS, 16-18: 2x6 SP DSS, 8-12: 2x3 SPF No.2 13-16: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

3-18,7-13: 2x4 SPF No.2

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

Max Horz 2=317(LC 7)

Max Uplift 2=-326(LC 4), 11=-309(LC 4) Max Grav 2=1707(LC 2), 11=1662(LC 2)

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

TOP CHORD 2-3=-7861/1443, 3-4=-5266/952, 4-6=-3615/678, 6-7=-2405/479, 7-8=-1334/330,

8-9=-1327/331

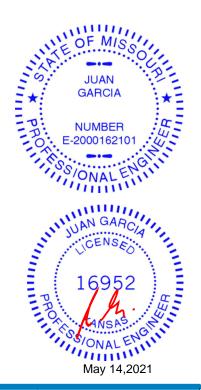
BOT CHORD 2-18=-1461/7399, 17-18=-1379/6921, 15-17=-937/4995, 14-15=-601/3381,

13-14=-340/2210, 8-13=-581/230

WEBS 3-18=-230/1532, 3-17=-1960/449, 4-17=-58/776, 4-15=-1723/360, 6-15=-39/732, 6-14=-1360/334, 7-14=-79/1063, 7-13=-1141/202, 9-13=-345/1854, 9-11=-1562/341

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=326, 11=309
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







Job Truss Truss Type Qty Lot 92 RR 146126291 210430 E2 Half Hip Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:42 2021 Page 1

6-5-5

Wheeler Lumber, Waverly, KS - 66871,

4-3-8

-0-10-8 0-10-8

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-eU1BN8KBgKztib8EI6hbh54Vh4EJw9t4XTDX2qzGdW7 23-9-1 35-6-0 5-7-6 5-7-6 6-1-8

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

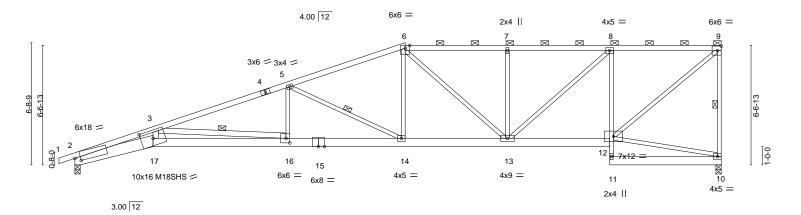
9-10, 3-16, 5-14

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

Rigid ceiling directly applied or 7-0-12 oc bracing.

1 Row at midpt

Scale = 1:63.3



	3-8		8-6	+	18-1-11		3-9-1		29-4-8	35-6-0	
Plate Offsets (X.Y)	3-8 [2·0-3-1		-14 8 0-3-01 [17:0-8	-0.0-5-41	6-5-5		5-7-6		5-7-6	6-1-8	<u> </u>
Plate Offsets (X,Y) [2:0-3-11,0-2-5], [16:0-2-8,0-3-0], [17:0-8-0,0-5-4]											
LOADING (psf)	s	PACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	P	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.54 16-17	>784	360	MT20	197/144
TCDL 10.0		umber DOL	1.15	BC	0.83	Vert(CT)	-0.98 16-17	>431	240	M18SHS	197/144
BCLL 0.0 *		Rep Stress Incr	YES	WB	0.79	Horz(CT)	0.37 10	n/a	n/a		
BCDL 10.0	C	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.45 16-17	>930	240	Weight: 174 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

6-9: 2x4 SPF No.2 **BOT CHORD** 2x6 SPF No.2 *Except*

2-17: 2x8 SP DSS, 15-17: 2x6 SP DSS, 8-11: 2x3 SPF No.2

7-4-14

WEBS 2x3 SPF No.2 *Except* 3-17,3-16: 2x4 SPF No.2

REACTIONS. (size) 10=0-3-8, 2=0-3-8

Max Horz 2=275(LC 7)

Max Uplift 10=-306(LC 4), 2=-330(LC 4) Max Grav 10=1585(LC 1), 2=1659(LC 1)

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

TOP CHORD 2-3=-7911/1520, 3-5=-4322/820, 5-6=-2905/590, 6-7=-2422/528, 7-8=-2419/526, 8-9=-1621/373, 9-10=-1522/334

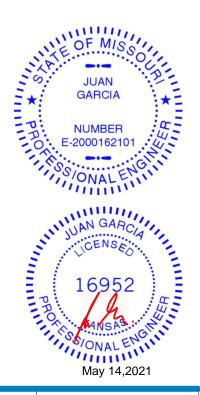
2-17=-1521/7451, 16-17=-1441/6963, 14-16=-768/4058, 13-14=-449/2670,

BOT CHORD 12-13=-337/1626, 8-12=-1172/315

WEBS 3-17=-227/1595, 3-16=-2921/677, 5-16=-7/590, 5-14=-1536/354, 6-14=-87/769,

6-13=-345/130, 7-13=-437/174, 8-13=-207/1075, 9-12=-398/2102

- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=306, 2=330.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







Job Truss Truss Type Qty Lot 92 RR 146126292 210430 E3 Half Hip 1 Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:44 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-as9ynqMRBxDbxvIcPXk3mW9p1uwpO0CN?nie6jzGdW5

6-3-10

27-3-0

6-3-10

31-3-4

4-0-4

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

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

4-15, 9-11

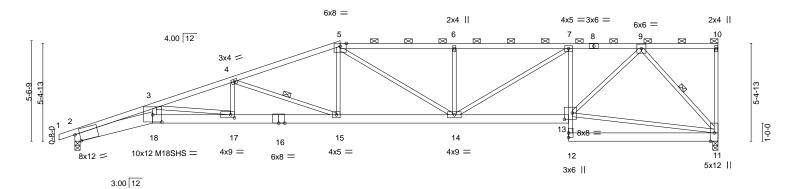
Rigid ceiling directly applied or 7-3-8 oc bracing.

1 Row at midpt

Scale: 3/16"=1

35-6-0

4-2-12



	4-3-8 8-8-6 4-3-8 4-4-14			14-7-11 20-11-5 5-11-5 6-3-10			27-3-0 6-3-10			35-6-0	—		
- DI + O''						0.000.11		0-3	5-10		8-3-0		
Plate Offs	late Offsets (X,Y) [2:0-3-3,0-4-13], [13:0-5-4,0-4-4], [17:0-2-8,0-2-0], [18:0-6-0,0-4-12]												
LOADING	G (psf)	SF	PACING- 2	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL	25.0	Pla	ate Grip DOL	1.15	TC 1.	.00	Vert(LL)	-0.47 17-18	>906	360	MT20	197/144	
TCDL	10.0	Lu	ımber DOL	1.15	BC 0.	.83	Vert(CT)	-0.84 17-18	>503	240	M18SHS	197/144	
BCLL	0.0 *	Re	ep Stress Incr	YES	WB 0.	.92	Horz(CT)	0.36 11	n/a	n/a			
BCDL	10.0	Co	ode IRC2018/TPI2	014	Matrix-S	;	Wind(LL)	0.39 17-18	>999	240	Weight: 167 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

-0-10-8 0-10-8

2x4 SPF No.2 *Except* 1-5: 2x4 SPF 2100F 1.8E

2x6 SPF No.2 *Except*

BOT CHORD 2-18: 2x8 SP DSS, 16-18: 2x6 SP DSS, 7-12: 2x3 SPF No.2

4-4-14

5-11-5

WEBS 2x3 SPF No.2

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

Max Horz 2=223(LC 7)

Max Uplift 11=-302(LC 4), 2=-333(LC 4) Max Grav 11=1585(LC 1), 2=1659(LC 1)

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

TOP CHORD 2-3=-7509/1423, 3-4=-5089/974, 4-5=-3594/705, 5-6=-3424/702, 6-7=-3421/700,

7-9=-2613/547

2-18=-1402/7046, 17-18=-1336/6685, 15-17=-921/4822, 14-15=-585/3339, **BOT CHORD**

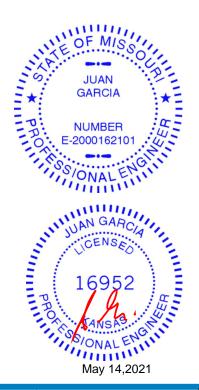
13-14=-508/2638, 7-13=-855/245

WEBS 3-18=-215/1383, 3-17=-1893/421, 4-17=-39/601, 4-15=-1565/357, 5-15=-55/673,

5-14=-65/374, 6-14=-521/207, 7-14=-177/929, 11-13=-299/1182, 9-13=-313/1839,

9-11=-2024/423

- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=302, 2=333. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







Job Truss Truss Type Qty Ply Lot 92 RR 146126293 210430 E4 Half Hip Girder 2 | **Z** | Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:46 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

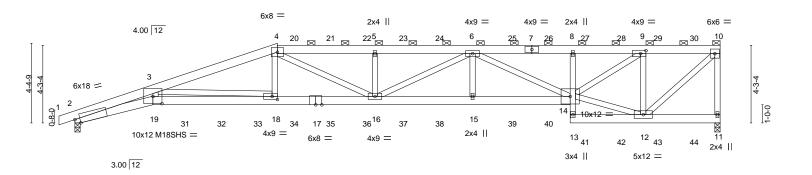
Structural wood sheathing directly applied or 3-5-2 oc purlins,

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

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

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-XFGiCWNijZTJBCS?XymXrxFCahbmsyZgS5BlBbzGdW3 -0-10-8 0-10-8 21-10-9 27-3-0 31-3-4 35-6-0 4-3-8 6-10-3 5-4-7 5-4-7 4-0-4 4-2-12

Scale: 3/16"=1



4-3-8 11-1-11		16-6-2 21-10-9		1	27-3-0		31-3-4 35-6		-0		
4-3-8	3 6	-10-3	5-4-	7	5-4-7	'	5-4-7	<u>'</u>	4-0-4	4-2-1	12 '
Plate Offsets (X,Y) [2:0-3-5,Edge], [9:0-3-8,0-2-0], [18:0-3-8,0-2-0], [19:0-6-0,0-4-12]											
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (oc) I/defl	L/d	PLA	TES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.54 18	-19 >777	360	MT2	0	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.96 18	-19 >438	240	M18	SHS	197/144
BCLL 0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.38	11 n/a	n/a			
BCDL 10.0	Code IRC2018	/TPI2014	Matrix	-S	Wind(LL)	0.38 18	-19 >999	240	Wei	ght: 423 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

TOP CHORD 2x6 SPF No.2 *Except* 1-4: 2x6 SPF 1650F 1.4E

BOT CHORD 2x6 SP 2400F 2.0E *Except* 8-13: 2x4 SPF No.2

WEBS 2x4 SPF No.2 REACTIONS. (size) 11=0-3-8, 2=0-3-8

Max Horz 2=129(LC 24) Max Uplift 11=-357(LC 4), 2=-393(LC 4) Max Grav 11=3044(LC 1), 2=3052(LC 1)

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

TOP CHORD 2-3=-15708/2020, 3-4=-9377/1163, 4-5=-9634/1188, 5-6=-9632/1187, 6-8=-6758/834,

8-9=-6661/825, 9-10=-2936/379, 10-11=-2936/389

BOT CHORD 2-19=-1922/14801, 18-19=-1771/13637, 16-18=-1072/8847, 15-16=-1105/9262,

14-15=-1105/9262, 8-14=-564/196, 12-13=-74/466

WEBS 3-19=-455/3670, 3-18=-4730/709, 4-18=-128/1646, 4-16=-92/1148, 5-16=-689/239,

6-16=-73/417, 6-15=0/490, 6-14=-2810/333, 12-14=-296/2551, 9-14=-559/4603,

9-12=-3245/516, 10-12=-466/3975

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continuere one player 2 dard 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



ANSA-MOS/ONALEY

GARCIA

NUMBER

-2000162101

ONALE

16952

May 14,2021

May 14,2021

Job	Truss	Truss Type	Qty	Ply	Lot 92 RR	
210430	E4	Half Hip Girder	1	2	Joh Reference (ontional)	146126293

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:46 2021 Page 2 ID:Hr0UloylgMOrZQ4rpild7XzssyG-XFGiCWNijZTJBCS?XymXrxFCahbmsyZgS5BlBbzGdW3

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

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 119 lb down and 83 lb up at 12-0-0, 119 lb down and 83 lb up at 14-0-0, 119 lb down and 83 lb up at 16-0-0, 119 lb down and 83 lb up at 22-0-0, 119 lb down and 83 lb up at 22-0-0, 119 lb down and 83 lb up at 23-0-0, 119 lb down and 83 lb up at 24-0-0, 119 lb down and 83 lb up at 24-0-0, 119 lb down and 83 lb up at 24-0-0, 119 lb down and 83 lb up at 24-0-0, 119 lb down and 84 lb up at 28-0-0, 120 lb down and 84 lb up at 30-0-0, and 120 lb down and 84 lb up at 32-0-0, and 120 lb down and 84 lb up at 34-0-0 on top chord, and 442 lb down and 129 lb up at 6-0-0, 230 lb down and 44 lb up at 8-0-0, 230 lb down and 49 lb up at 10-0-0, 70 lb down at 28-0-0, 70 lb down at 30-0-0, and 70 lb down at 32-0-0, and 70 lb down at 34-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-70, 4-10=-70, 2-19=-20, 14-19=-20, 11-13=-20

Concentrated Loads (lb)

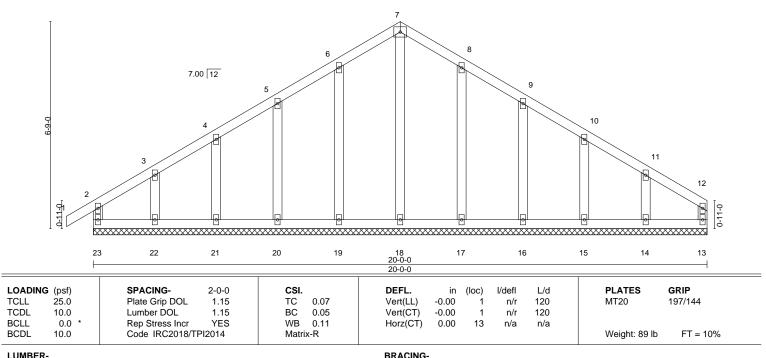
Vert: 15=-51 6=-111(B) 20=-111(B) 21=-111(B) 22=-111(B) 23=-111(B) 24=-111(B) 25=-111(B) 26=-111(B) 27=-115(B) 28=-115(B) 29=-115(B) 30=-115(B)

31=-442(B) 32=-230(B) 33=-230(B) 34=-51 35=-51 36=-51 37=-51 38=-51 40=-51 41=-50(B) 42=-50(B) 43=-50(B) 44=-50(B)

Job Truss Truss Type Qty Lot 92 RR 146126294 210430 G1 Common Supported Gable Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:47 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-?Rq4QsOKUsbApM1B4gHmO9nYj57fbaiphlxlj2zGdW2 0-10-8 0-10-8 20-0-0 10-0-0 10-0-0

> Scale = 1:37.5 4x5 =



LUMBER-

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

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

TOP CHORD

BOT CHORD

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

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

REACTIONS. All bearings 20-0-0.

Max Horz 23=187(LC 5) (lb) -

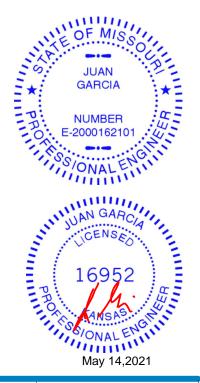
Max Uplift All uplift 100 lb or less at joint(s) 23, 13, 19, 20, 21, 17, 16, 15 except 22=-107(LC 8),

14=-101(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 23, 13, 18, 19, 20, 21, 22, 17, 16, 15, 14

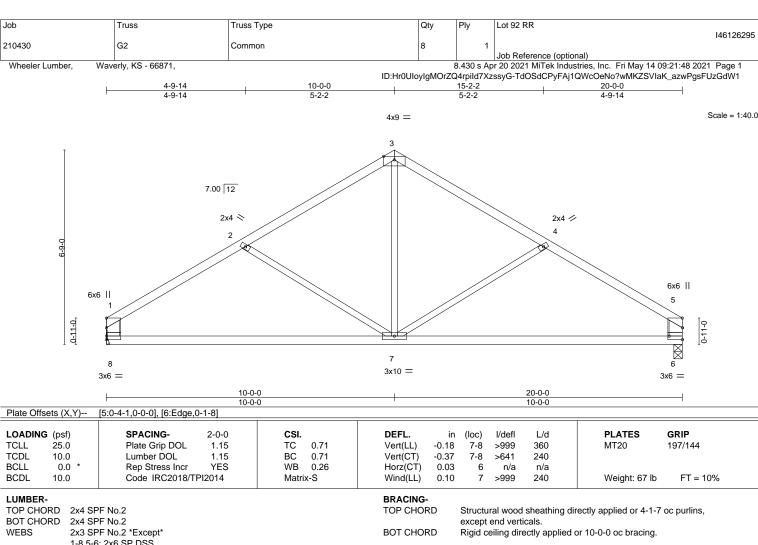
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 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.
- * 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) 23, 13, 19, 20, 21, 17, 16, 15 except (jt=lb) 22=107, 14=101.
- 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.









TOP CHORD **BOT CHORD**

1-8,5-6: 2x6 SP DSS

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

Max Horz 8=177(LC 5)

Max Uplift 8=-103(LC 8), 6=-103(LC 9) Max Grav 8=879(LC 1), 6=879(LC 1)

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

1-2=-1156/181, 2-3=-875/142, 3-4=-875/141, 4-5=-1156/181, 1-8=-763/149, TOP CHORD

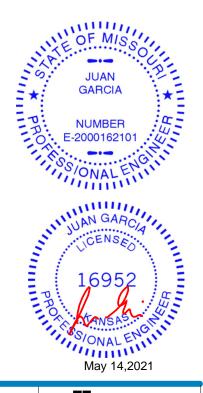
5-6=-763/149

BOT CHORD 7-8=-177/903, 6-7=-102/894

WEBS 3-7=-9/459, 4-7=-269/210, 2-7=-269/210

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.
- * 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) 8=103, 6=103
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job Truss Truss Type Qty Lot 92 RR 146126296 210430 G3 Roof Special Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:49 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-xqyrrYQa0Uru2gAaC5JETatmLvIG3Pb683QPnwzGdW0 11-3-14 1-3-14 20-0-0 15-6-11 6-8-2 2-0-0 1-3-14 4-2-13 Scale = 1:42.6 6x6 = 8x8 =4x9 = 8x8 = 2x4 || 4x5 = 6 7.00 12 6x6 / 2-1-0 11 10 9 12 8 3x10 =4x9 =4x9 =3x4 || 2x4 || 10-0-0 15-6-11 20-0-0 Plate Offsets (X,Y)-- [1:Edge,0-1-12], [2:0-4-8,0-1-7], [3:0-4-0,0-2-9], [5:0-4-0,0-2-9]

LOADING	(psf)	SPACING- 2-0-)	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5	TC 0.64	4	Vert(LL)	-0.05	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5	BC 0.30	0	Vert(CT)	-0.11	11-12	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	3	WB 0.40	0	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.02	9-10	>999	240	Weight: 99 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD

3-4,4-5: 2x6 SPF No.2 2x4 SPF No.2

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

1-12: 2x4 SPF No.2

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

Max Horz 12=193(LC 5)

Max Uplift 8=-35(LC 9), 12=-8(LC 8) Max Grav 8=889(LC 1), 12=889(LC 1)

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

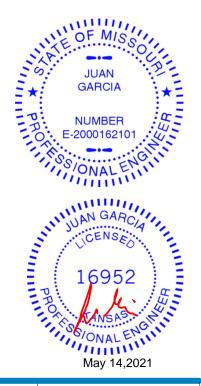
TOP CHORD 1-2=-949/31, 2-3=-722/64, 3-4=-781/51, 4-5=-806/60, 5-6=-573/30, 6-7=-573/30,

7-8=-853/50, 1-12=-825/43 10-11=-58/766, 9-10=-56/775

BOT CHORD

WEBS 4-10=-20/506, 5-10=-280/47, 5-9=-333/29, 6-9=-356/89, 7-9=-32/925, 1-11=0/644

- 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) 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) 8, 12.
- 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 4-2-2 oc purlins,

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

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





Job Truss Truss Type Qty Lot 92 RR 146126297 210430 G4 Half Hip Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:49 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-xqyrrYQa0Uru2gAaC5JETatgBvif3OM683QPnwzGdW0 20-0-0 13-9-11 7-9-14 5-11-13 6-2-5 Scale = 1:41.1 6x6 = 2x4 || 3x6 =3 \times 7.00 12 6-7-12 6-6-3 X 6x8 = 2-1-0 10 6 8 3x4 = 4x9 = 3x4 II 2x4 II 13-9-11 20-0-0 7-9-14 Plate Offsets (X,Y)--[1:Edge,0-2-0], [2:0-3-5,Edge] SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 CSI. in (loc) I/def L/d 25.0 TCLL Plate Grip DOL 1.15 TC 0.97 Vert(LL) -0.09 7-8 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.47 Vert(CT) -0.18 7-8 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.48 Horz(CT) 0.01 5 n/a n/a Code IRC2018/TPI2014 240 FT = 10% **BCDL** 10.0 Wind(LL) 0.02 6-7 >999 Weight: 83 lb Matrix-S LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals, and **BOT CHORD** 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 2-4. WEBS 2x3 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 1-8: 2x4 SPF No.2 **WEBS** 1 Row at midpt 4-5, 2-6 REACTIONS. (size) 5=0-3-8, 8=Mechanical Max Horz 8=197(LC 7) Max Uplift 5=-62(LC 5) Max Grav 5=963(LC 2), 8=935(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-988/12, 2-3=-694/30, 3-4=-692/28, 4-5=-843/88, 1-8=-816/36

BOT CHORD 7-8=-187/252 6-7=-106/775

WEBS 3-6=-503/119, 4-6=-72/976, 1-7=-8/639

- 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) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) 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) 5.
- 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.

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

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



Job Truss Truss Type Qty Lot 92 RR 146126298 210430 G5 Half Hip Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:50 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-P0WD2uRCnnzlgqlmmoqT0nPyWJ0sonNGNj9zKMzGdW? 20-0-0 4-3-7 4-8-2 5-4-15 Scale = 1:42.5 6x6 = 2x4 || 4x5 = $\stackrel{5}{\boxtimes}$ \boxtimes \boxtimes \boxtimes \boxtimes 7.00 12 3x4 // 2 7-3-12 2x4 II 2-1-0 X 10 11 8 7 93x10 = 3x4 = 4x9 = 2x4 | 20-0-0 5-4-15 Plate Offsets (X,Y)--[3:0-3-5,Edge] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.55 Vert(LL) -0.16 8-9 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.60 Vert(CT) -0.32 8-9 >750 240 BCLL 0.0 Rep Stress Incr YES WB 0.75 Horz(CT) 0.02 6 n/a n/a Code IRC2018/TPI2014 Wind(LL) 240 FT = 10% **BCDL** 10.0 Matrix-S 0.02 7-8 >999 Weight: 89 lb LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, **BOT CHORD** 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5. WEBS 2x3 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. 1-9: 2x4 SPF No.2 **WEBS** 1 Row at midpt 5-6, 3-7 REACTIONS. (size) 6=0-3-8, 9=Mechanical Max Horz 9=219(LC 7) Max Uplift 6=-65(LC 5) Max Grav 6=967(LC 2), 9=943(LC 13) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-890/38, 3-4=-590/45, 4-5=-589/44, 5-6=-853/88 TOP CHORD

BOT CHORD 8-9=-158/780 7-8=-101/732

WEBS 3-8=0/349, 3-7=-256/19, 4-7=-459/114, 5-7=-74/928, 2-9=-900/28

- 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) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) 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.
- 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.

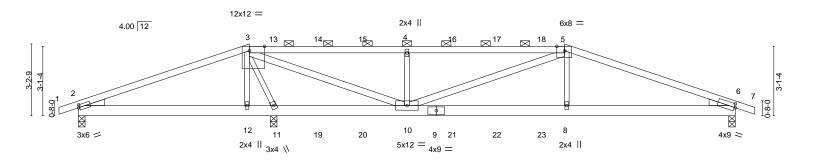
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

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



Job Truss Truss Type Qty Ply Lot 92 RR 146126299 210430 H1 Hip Girder Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:52 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-LPezTZSSJPESv7v9tDtx5CVBJ6gEGgoYq1e3NFzGdVz -0-10-8 0-10-8 21-8-13 7-0-9 7-0-9 7-7-11

Scale = 1:51.5



	7-7-11	₁ 8-7-0 ₁	14-8-4		21-8-13			29-4-8		
ı	7-7-11	ბ-11-5	6-1-4	1	7-0-9		1	7-7-11	<u> </u>	
Plate Offsets (X,Y)	Plate Offsets (X,Y) [2:0-0-8,0-1-8], [3:0-8-2,Edge], [5:0-4-2,Edge], [6:0-0-11,0-2-0]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.98	Vert(LL)	-0.12 8-10	>999	360	MT20	197/144	
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.23 8-10	>999	240			
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.82	Horz(CT)	0.02	n/a	n/a			
BCDL 10.0	Code IRC2018/T	PI2014	Matrix-S	Wind(LL)	0.10 8-10	>999	240	Weight: 117 lb	FT = 10%	
LUMBER-				BRACING-						

TOP CHORD

BOT CHORD

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

3-5: 2x4 SPF No.2

BOT CHORD 2x6 SPF No.2 2x3 SPF No.2 *Except*

WEBS 3-10,5-10: 2x4 SPF No.2

WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 11=0-3-8 (reg. 0-3-14), 6=0-3-8

Max Horz 2=-49(LC 34)

Max Uplift 2=-195(LC 25), 11=-548(LC 4), 6=-287(LC 5) Max Grav 2=205(LC 18), 11=2476(LC 1), 6=1182(LC 22)

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

TOP CHORD 2-3=-109/695, 3-4=-1455/347, 4-5=-1458/349, 5-6=-2439/539

BOT CHORD 2-12=-624/162, 11-12=-629/162, 10-11=-1460/366, 8-10=-429/2177, 6-8=-431/2198 3-12=-48/256, 3-10=-646/3112, 4-10=-745/304, 5-10=-799/216, 5-8=-45/574, WFBS

3-11=-2270/556

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.
- * 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) WARNING: Required bearing size at joint(s) 11 greater than input bearing size.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=195. 11=548. 6=287.
- 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) 101 lb down and 84 lb up at 8-8-4, 96 lb down and 55 lb up at 10-8-4, 96 lb down and 55 lb up at 12-8-4, 96 lb down and 55 lb up at 14-8-4, 96 lb down and 55 lb up at 16-8-4, and 96 lb down and 55 lb up at 18-8-4, and 96 lb down and 55 lb up at 20-8-4 on top chord, and 305 lb down and 147 lb up at 7-7-11, 32 lb down at 10-8-4, 32 lb down at 12-8-4, 32 lb down at 14-8-4, 32 lb down at 16-8-4, 32 lb down at 18-8-4, and 32 lb down at 20-8-4, and 305 lb down and 147 lb up at 21-8-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Odnitimulae სიმოდ SE(S) section, loads applied to the face of the truss are noted as front (F) or back (B)



GARCIA

NUMBER

ONAL

16952

PROMALENGE

May 14,2021

May 14,2021

-2000162101

Structural wood sheathing directly applied or 3-9-5 oc purlins, except

2-0-0 oc purlins (3-1-9 max.): 3-5.

Rigid ceiling directly applied or 5-7-3 oc bracing.

Job	Truss	Truss Type	Qty	Ply	Lot 92 RR	٦
210430	⊔1	Hip Girder	1	1	146126299	1
210430	H1	Trip Girder	'	'	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:52 2021 Page 2 ID:Hr0UloylgMOrZQ4rpild7XzssyG-LPezTZSSJPESv7v9tDtx5CVBJ6gEGgoYq1e3NFzGdVz

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

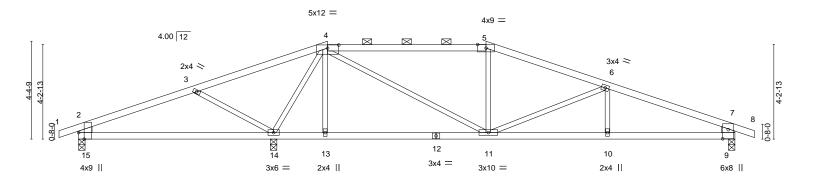
Concentrated Loads (lb)

Vert: 12=-305(B) 10=-24(B) 4=-44(B) 8=-305(B) 13=-45(B) 14=-44(B) 15=-44(B) 15=-44(B) 17=-44(B) 18=-44(B) 19=-24(B) 20=-24(B) 21=-24(B) 22=-24(B) 21=-24(B) 21=-24(B)

23=-24(B)

Job Truss Truss Type Qty Lot 92 RR 146126300 Hip 210430 H2 Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:53 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-qbCLgvT54iMJXHULRwOAdQ1NpW02?8Ri3hOdvhzGdVy -0-10-8 0-10-8 30-3-0 0-10-8 5-3-7 5-3-7 5-10-5 5-5-4 5-8-7

Scale = 1:51.6



	8-8-12	11-1-11	18-2-13	23-8-1	29-4-8	
	8-8-12	2-4-15	7-1-2	5-5-4	5-8-7	
Plate Offsets (X,Y)						
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 0.93	Vert(LL) -0.13 1	(/	MT20 197/144	
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.25 1	4-15 >398 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.73	Horz(CT) 0.02	9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.09 1	0-11 >999 240	Weight: 98 lb FT = 10%	,

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

2-15,7-9: 2x8 SP DSS

(size) 15=0-3-8, 14=0-3-8, 9=0-3-8

Max Horz 15=54(LC 8)

Max Uplift 15=-73(LC 4), 14=-268(LC 4), 9=-199(LC 5) Max Grav 15=291(LC 21), 14=1631(LC 1), 9=918(LC 22)

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

2-3=-59/296, 3-4=-131/715, 4-5=-1004/240, 5-6=-1101/222, 6-7=-1543/282, TOP CHORD

7-9=-814/222

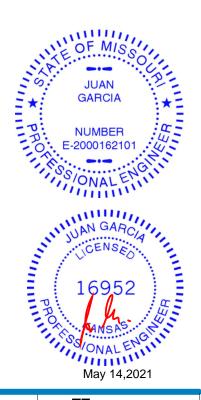
BOT CHORD 14-15=-254/103, 10-11=-204/1383, 9-10=-204/1383

WEBS 3-14=-581/249, 4-14=-1372/265, 4-11=-190/997, 6-11=-428/170

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) 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) 15 except (jt=lb) 14=268, 9=199.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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

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

6-0-0 oc bracing: 14-15.



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



Job Truss Truss Type Qty Ply Lot 92 RR 146126301 210430 **H3** Common Girder Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:54 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-lnlkuFUjr0UA8R3X?evPAdabHwKckglrIL7AS8zGdVx

5-11-8

11-9-1

29-4-8 20-8-2 30-3-0 0-10-8 5-11-14 8-8-6

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

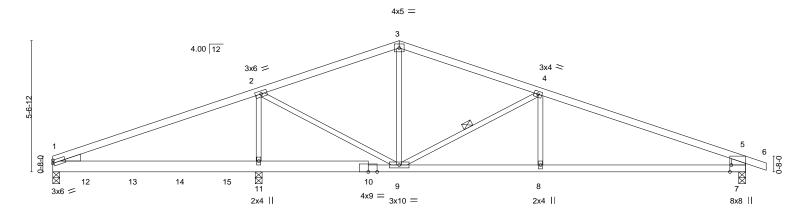
4-9

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

except end verticals.

1 Row at midpt

Scale = 1:48.8



⊢		8-8-12		5-11-8		5-11-14	-		8-8-6	
Plate Off	sets (X,Y)	[7:0-3-8,Edge]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.21 1-11	>498	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.38 1-11	>274	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.41	Horz(CT)	0.02 7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matrix-S	Wind(LL)	0.04 8	>999	240	Weight: 100 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF 2100F 1.8E **BOT CHORD** 2x6 SPF 1650F 1.4E *Except*

7-10: 2x4 SPF No.2

8-8-12

2x3 SPF No.2 *Except* WEBS 5-7: 2x8 SP DSS

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 1=0-3-8, 11=0-3-8, 7=0-3-8

Max Horz 1=85(LC 12)

Max Uplift 11=-44(LC 4), 7=-222(LC 26)

Max Grav 1=641(LC 21), 11=2186(LC 1), 7=875(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-0/524, 2-3=-501/251, 3-4=-491/241, 4-5=-1341/324, 5-7=-792/270

BOT CHORD 1-11=-377/69, 9-11=-377/71, 8-9=-226/1177, 7-8=-226/1177 WFBS 2-11=-1322/304, 2-9=-126/876, 4-9=-908/217, 4-8=0/325

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.
- * 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) 11 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) 236 lb down at 1-4-8, 236 lb down at 3-4-8, and 236 lb down at 5-4-8, and 236 lb down at 7-4-8 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: 1-3=-70, 3-5=-70, 5-6=-70, 1-7=-20

GARCIA NUMBER -2000162101 ONAL 16952 May 14,2021 May 14,2021

Continued on page 2



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Job Truss Truss Type Qty Ply Lot 92 RR 146126301 210430 Н3 Common Girder

Wheeler Lumber,

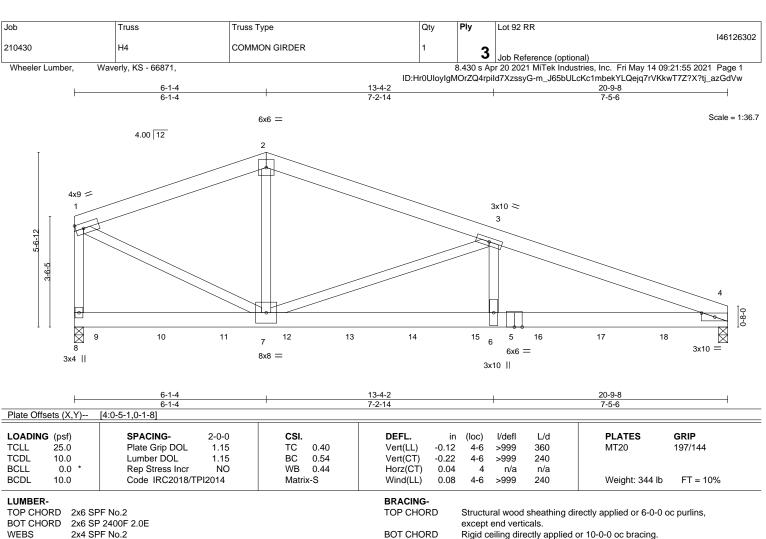
Waverly, KS - 66871,

Job Reference (optional)

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:54 2021 Page 2
ID:Hr0UloylgMOrZQ4rpild7XzssyG-InlkuFUjr0UA8R3X?evPAdabHwKckglrlL7AS8zGdVx

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 12=-236(F) 13=-236(F) 14=-236(F) 15=-236(F)



REACTIONS.

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

Max Horz 8=-112(LC 6) Max Uplift 4=-617(LC 5), 8=-24(LC 5) Max Grav 4=4970(LC 1), 8=5500(LC 1)

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

1-2=-5161/467, 2-3=-5177/454, 3-4=-10810/1310, 1-8=-4272/387

BOT CHORD 6-7=-1167/10104, 4-6=-1167/10104

WFBS 2-7=-139/2823, 3-7=-5640/975, 3-6=-405/3470, 1-7=-441/5327

NOTES-

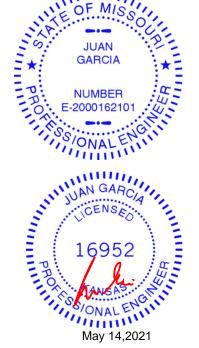
- 1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-8-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 8 except (jt=lb) 4=617.
- 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) 918 lb down at 0-9-8, 915 lb down at 2-9-8, 869 lb down and 28 lb up at 4-9-8, 859 lb down and 123 lb up at 6-9-8, 859 lb down and 123 lb up at 8-9-8, 859 lb down and 123 lb up at 10-9-8, 859 lb down and 123 lb up at 12-9-8, 859 lb down and 123 lb up at 14-9-8, and 859 lb down and 123 lb up at 16-9-8, and 859 lb down and 123 lb up at 18-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2

MARNING - 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





Truss Type Job Truss Qty Ply Lot 92 RR 146126302 **COMMON GIRDER** 210430 H4

Wheeler Lumber,

Waverly, KS - 66871,

3 | Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:55 2021 Page 2 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-m_J65bULcKc1mbekYLQejq7rVKkwT7Z?X?tj_azGdVw

LOAD CASE(S) Standard

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

Concentrated Loads (lb)

Vert: 9=-872(F) 10=-869(F) 11=-869(F) 12=-859(F) 13=-859(F) 14=-859(F) 15=-859(F) 16=-859(F) 17=-859(F) 18=-859(F) 18=-85



Job Truss Truss Type Qty Lot 92 RR 146126303 210430 J1 Diagonal Hip Girder Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:57 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, $ID: Hr 0 Uloy lg MOrZQ4 rpild 7 XzssyG-iMRsWHWb7xsl?uo6gmS6oFCCf7SBx7rl_JMq2SzGdVu$ 5-9-15 1-9-3 4-4-13 1-5-2 Scale = 1:17.2 2x4 || 2x4 || 3.47 12 3 3x4 || 5 3x4 =9 0-11-0 2x4 || 10 2x4 || 2x4 || 0-0₋10 0-0-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.02 360 197/144 **TCLL** TC 0.36 >999 MT20

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.04

0.01

0.02

>999

>999

except end verticals.

n/a

5

240

n/a

240

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

Structural wood sheathing directly applied or 5-9-15 oc purlins,

Weight: 18 lb

FT = 10%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SPF No.2

10.0

0.0

10.0

2x4 SPF No.2 *Except* **BOT CHORD** 3-7: 2x3 SPF No.2 WEBS 2x4 SPF No.2 *Except*

4-5: 2x3 SPF No.2

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

Max Horz 8=91(LC 5)

Max Uplift 8=-135(LC 4), 5=-57(LC 8) Max Grav 8=410(LC 1), 5=232(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD 2-8=-366/161

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

ВС

WB

Matrix-R

0.42

0.00

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

1.15

NO

- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=135
- 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 36 lb up at 3-7-3, and 110 lb down and 70 lb up at 3-9-12 on top chord, and 7 lb down and 11 lb up at 3-7-3, and 16 lb down at 3-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

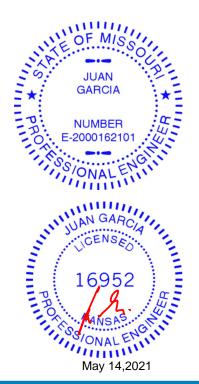
LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20

Concentrated Loads (lb) Vert: 10=-6(F=2, B=-7)





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

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



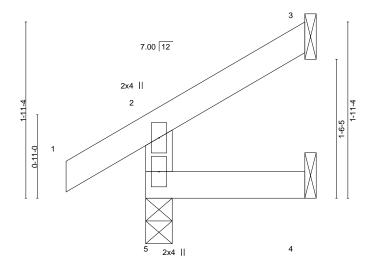
Job	Truss	Truss Type	Qty	Ply	Lot 92 RR
040400	10				I46126304
210430	J2	Jack-Open	1	1	Job Reference (optional)

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:04 2021 Page 1

ID:Hr0UloylgMOrZQ4rpild7XzssyG-?iMW_gb_U5kmLzqSak5lak_SQyw34HaJbuYioZzGdVn 1-9-0 0-10-8 1-9-0

Scale = 1:12.7



1-9-0 1-9-0

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	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-

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

BOT CHORD WEBS 2x4 SPF No.2 BRACING-

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 1-9-0 oc purlins, except end verticals.

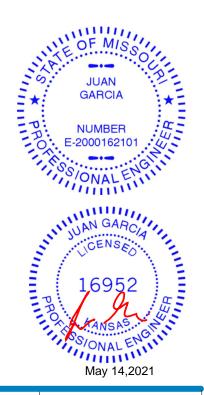
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=49(LC 8) Max Uplift 5=-14(LC 8), 3=-34(LC 8), 4=-2(LC 8) Max Grav 5=166(LC 1), 3=44(LC 15), 4=29(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.
- * 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 Qty Lot 92 RR 146126305 210430 J3 Jack-Open 3 Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:05 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-TvwuB0ccFOscz7Pf8Sc_7xXb4MFjpkqTqYIFL?zGdVm 4-0-3 0-10-8 4-0-3 Scale = 1:12.8 4.00 12 1-7-14 0-8-0 3x6 || 4-0-3 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.01 360 197/144 **TCLL** TC 0.21 4-5 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.13 Vert(CT) -0.02 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 3 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.01

4-5

>999

except end verticals.

240

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

Structural wood sheathing directly applied or 4-0-3 oc purlins,

Weight: 11 lb

FT = 10%

LUMBER-

REACTIONS.

BCDL

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

BOT CHORD WEBS 2x4 SPF No.2

10.0

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=63(LC 4) Max Uplift 5=-66(LC 4), 3=-55(LC 8)

Code IRC2018/TPI2014

Max Grav 5=252(LC 1), 3=117(LC 1), 4=71(LC 3)

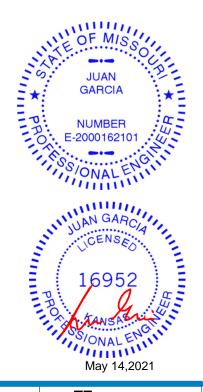
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

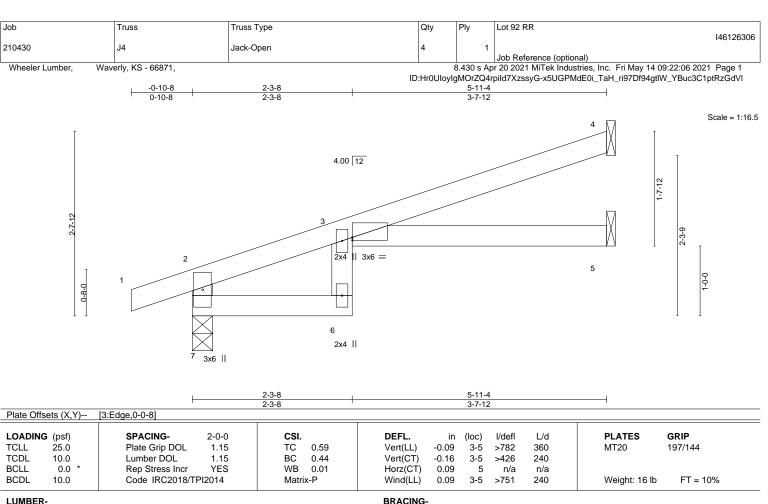
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-R

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







TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

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

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

Max Horz 7=89(LC 4)

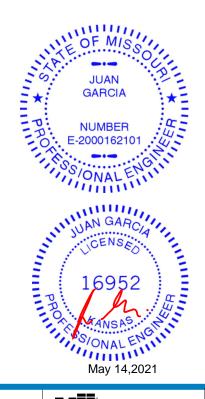
Max Uplift 7=-76(LC 4), 4=-64(LC 8), 5=-1(LC 8) Max Grav 7=336(LC 1), 4=159(LC 1), 5=100(LC 3)

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

TOP CHORD 2-7=-344/106

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.
- * 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, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Lot 92 RR 146126307 210430 J5 Jack-Open Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:07 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-PH2ecietn06KCRZ1FteSCMcsg9uJHeKmHsnMPtzGdVk 0-10-8 5-11-4 Scale = 1:16.5 4.00 12 0-8-0 3x6 || 5-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 4-5 25.0 Plate Grip DOL TC Vert(LL) -0.05 >999 360 197/144 **TCLL** 1.15 0.52 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.31 Vert(CT) -0.11 4-5 >620 240

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.03

0.03

3

4-5

n/a

>999

except end verticals.

n/a

240

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

Structural wood sheathing directly applied or 5-11-4 oc purlins,

Weight: 15 lb

FT = 10%

LUMBER-

REACTIONS.

BCLL

BCDL

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

0.0

10.0

WEBS 2x4 SPF No.2

> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=63(LC 4)

Rep Stress Incr

Code IRC2018/TPI2014

Max Uplift 5=-32(LC 4), 3=-47(LC 8)

Max Grav 5=336(LC 1), 3=180(LC 1), 4=108(LC 3)

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

TOP CHORD 2-5=-292/78

NOTES-

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

WB

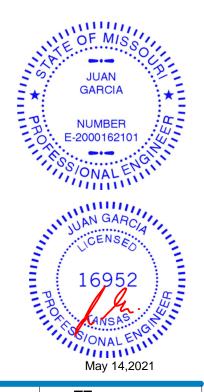
Matrix-R

0.00

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

YES

- * 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.





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Job Truss Truss Type Qty Lot 92 RR 146126308 210430 J6 Jack-Closed

Wheeler Lumber,

Waverly, KS - 66871,

0-10-8

Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:07 2021 Page 1 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-PH2ecietn06KCRZ1FteSCMcu_9u_HeKmHsnMPtzGdVk

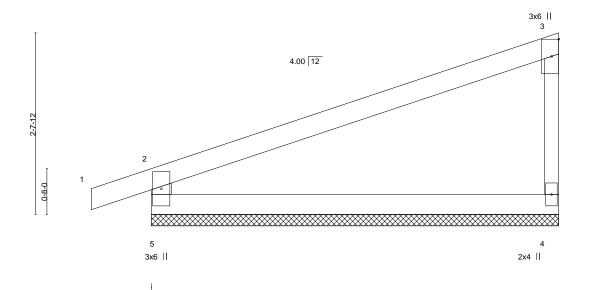
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.

5-11-4 5-11-4

Scale = 1:16.8



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.01	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	0.01	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R						Weight: 17 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

3-4: 2x3 SPF No.2

(size) 5=5-11-4, 4=5-11-4

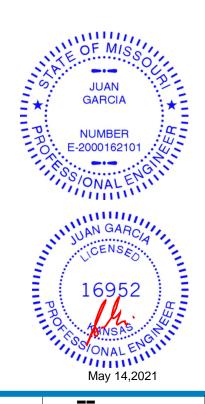
Max Horz 5=108(LC 5)

Max Uplift 5=-86(LC 4), 4=-55(LC 8) Max Grav 5=334(LC 1), 4=250(LC 1)

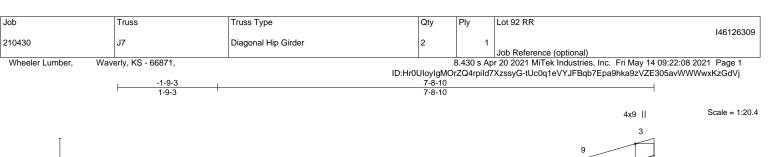
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

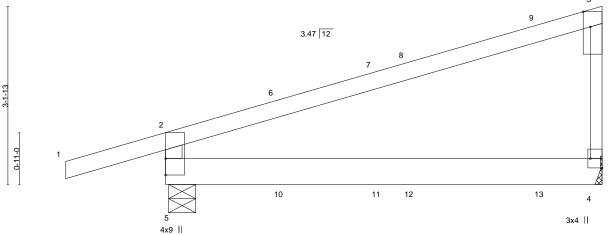
TOP CHORD 2-5=-293/129

- 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) 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.









TOP CHORD

BOT CHORD

Plate Offsets (X,Y)				
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 0.77	Vert(LL) -0.04 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.09 4-5 >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) 0.03 4-5 >999 240	Weight: 27 lb FT = 10%

LUMBER-BRACING-

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

3-4: 2x3 SPF No.2

(size) 5=0-5-12, 4=Mechanical

Max Horz 5=128(LC 5)

Max Uplift 5=-173(LC 4), 4=-107(LC 8) Max Grav 5=477(LC 1), 4=346(LC 1)

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

TOP CHORD 2-5=-421/222

NOTES-

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
- 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.
- 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=173, 4=107,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 50 lb down and 84 lb up at 2-1-1, 111 lb down and 70 lb up at 3-9-12, and 72 lb down and 45 lb up at 4-4-11, and 90 lb down and 68 lb up at 6-8-5 on top chord, and 9 lb down and 11 lb up at 2-1-1, 16 lb down at 3-9-12, and 11 lb down and 12 lb up at 4-4-11, and 25 lb down at 6-8-5 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).

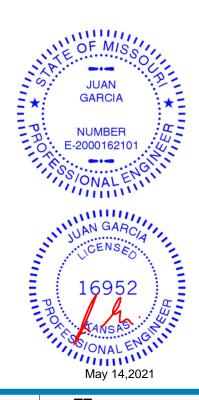
LOAD CASE(S) Standard

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: 6=23(B) 9=-20(B) 11=-7(F) 12=0(B) 13=-13(B)



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



Job	Truss	Truss Type	Qty	Ply	Lot 92 RR	٦
		l .			I46126310	ו
210430	J8	Jack-Open	2	1		
					Job Reference (optional)	

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:09 2021 Page 1 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-Mg9P1Nf7JdN2RkiQNHgwHniJKzdNIYg3IAGTUmzGdVi

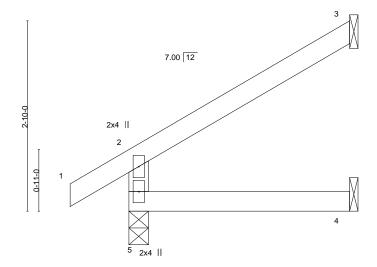
Structural wood sheathing directly applied or 3-3-7 oc purlins,

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

except end verticals.

3-3-7 3-3-7 -0-10-8 0-10-8

Scale = 1:17.1



3-3-7													
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	0.13	Vert(LL)	-0.00	`4-Ś	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.08	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/T	PI2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 10 lb	FT = 10%	

3-3-7

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

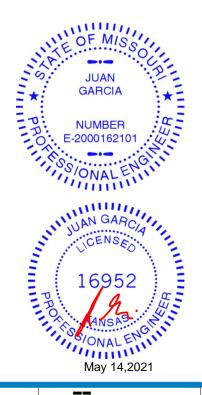
Max Horz 5=84(LC 8)

Max Uplift 5=-14(LC 8), 3=-63(LC 8)

Max Grav 5=222(LC 1), 3=99(LC 15), 4=58(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 92 RR 146126311 210430 J9 Jack-Open

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:09 2021 Page 1 ID:Hr0UloylgMOrZQ4rpild7XzssyG-Mg9P1Nf7JdN2RkiQNHgwHniHBzdelYq3lAGTUmzGdVi

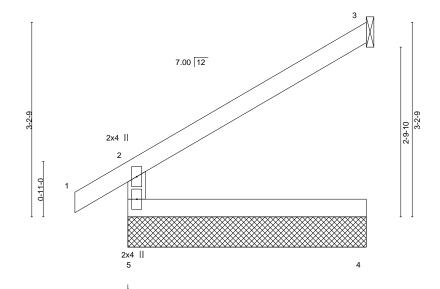
Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.

-0-10-8 0-10-8 3-11-4

Scale = 1:19.0



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	0.20	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 12 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

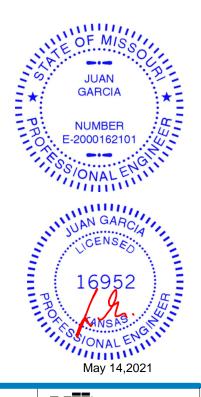
All bearings 3-11-4 except (jt=length) 3=Mechanical, 3=Mechanical.

Max Horz 5=100(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 5, 3 Max Grav All reactions 250 lb or less at joint(s) 5, 3, 3, 4

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.
- * 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 Lot 92 RR 146126312 210430 J10 Jack-Open 6

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:57 2021 Page 1 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-iMRsWHWb7xsl?uo6gmS6oFCEC7Xux7rl_JMq2SzGdVu

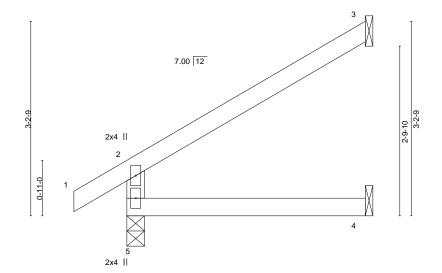
Structural wood sheathing directly applied or 3-11-4 oc purlins,

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

except end verticals.

0-10-8 3-11-4

Scale = 1:19.0



3-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.01 360 197/144 **TCLL** TC 0.20 4-5 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) -0.02 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.01 4-5 >999 240 Weight: 12 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

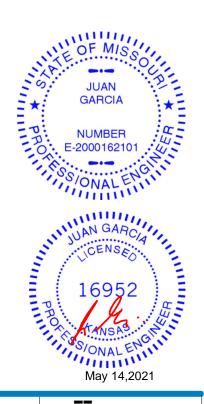
WEBS 2x4 SPF No.2

> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=70(LC 8) Max Uplift 3=-46(LC 8)

Max Grav 5=249(LC 1), 3=118(LC 13), 4=70(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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job	Truss	Truss Type	Qty	Ply	Lot 92 RR	٦
		l .			146126313	3
210430	J11	Jack-Open	2	1		
					Job Reference (optional)	

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:58 2021 Page 1

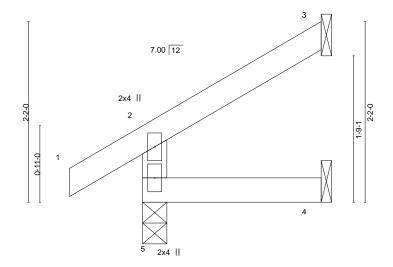
Structural wood sheathing directly applied or 2-1-11 oc purlins,

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

except end verticals.

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-AZ?EjdXDuF_cd2NJEU_LKTIRxXtWga5RDz5ObvzGdVt 2-1-11 0-10-8

Scale = 1:13.8



BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.07 BC 0.03	DEFL. Vert(LL) -0.0 Vert(CT) -0.0	l/defl L/d >999 360 >999 240	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.0 Wind(LL) 0.0	n/a n/a >999 240	Weight: 7 lb FT = 10%

LUMBER-

REACTIONS.

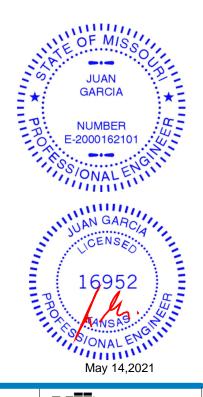
TOP CHORD 2x4 SPF No.2 2x4 SPF No.2 BOT CHORD

WEBS 2x4 SPF No.2

> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=57(LC 8) Max Uplift 5=-14(LC 8), 3=-41(LC 8), 4=-1(LC 8) Max Grav 5=177(LC 1), 3=58(LC 15), 4=35(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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	Qty	Ply	Lot 92 RR	
210430	J12	Jack-Open	2	1	146126314	
210430	312	Jack-Open	_	'	Job Reference (optional)	

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:58 2021 Page 1 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-AZ?EjdXDuF_cd2NJEU_LKTIRxXtpga5RDz5ObvzGdVt

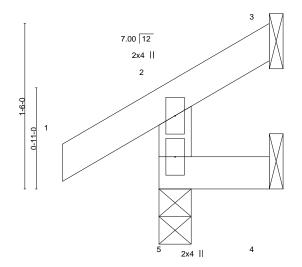
Structural wood sheathing directly applied or 1-0-0 oc purlins,

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

except end verticals.



Scale = 1:10.4



	1-0-0	
-	1-0-0	

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	0.07	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/TP	I2014	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 WEBS

2x4 SPF No.2

5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=36(LC 5) Max Uplift 5=-17(LC 8), 3=-15(LC 8), 4=-7(LC 5) Max Grav 5=153(LC 1), 3=10(LC 6), 4=14(LC 6)

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.
- * 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 Qty Lot 92 RR 146126315 210430 J13 Jack-Open Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:59 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-elZdxyYrfY6TFCxVnBVatgHU5x8FP1LaRcrx7LzGdVs

5-10-3 Scale = 1:25.9

7.00 12 3-11-10 3x4 || 0-11-10 4 3 3x4 ||

5-10-3 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL TC Vert(LL) -0.05 360 197/144 **TCLL** 1.15 0.56 3-4 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.32 Vert(CT) -0.12 3-4 >592 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.06 2 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.04 3-4 >999 240 Weight: 15 lb FT = 10%

5-10-3

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

> 4=Mechanical, 2=Mechanical, 3=Mechanical (size)

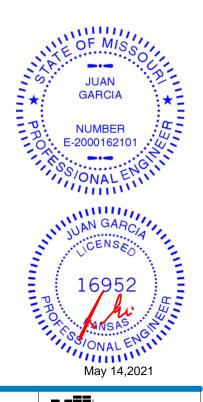
Max Horz 4=89(LC 8) Max Uplift 2=-70(LC 8)

Max Grav 4=256(LC 1), 2=188(LC 13), 3=110(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); 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) 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.
- 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 5-10-3 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Lot 92 RR 146126316 210430 J14 Jack-Open 8

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:21:59 2021 Page 1 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-elZdxyYrfY6TFCxVnBVatgHUWx9kP1LaRcrx7LzGdVs

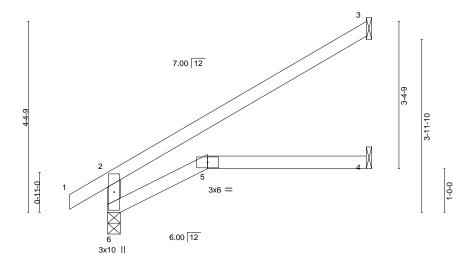
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.

-0-10-8 0-10-8 2-3-8 2-3-8 3-7-12

Scale = 1:26.5



	2-3-8 2-3-8	5-11-4 3-7-12	
LOADING (psf) SPACING- 2-0-0 TCLL 25.0 Plate Grip DOL 1.15 TCDL 10.0 Lumber DOL 1.15 BCLL 0.0 * Rep Stress Incr YES BCDL 10.0 Code IRC2018/TPI2014	CSI. TC 0.53 BC 0.29 WB 0.00 Matrix-R	DEFL. in (loc) l/defl L/d Vert(LL) -0.05 4-5 >999 360 Vert(CT) -0.12 4-5 >593 240 Horz(CT) 0.06 3 n/a n/a Wind(LL) 0.05 5 >999 240	PLATES GRIP MT20 197/144 Weight: 17 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

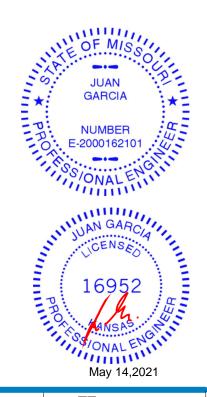
Max Horz 6=103(LC 8) Max Uplift 3=-69(LC 8)

Max Grav 6=336(LC 1), 3=184(LC 13), 4=109(LC 3)

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

TOP CHORD 2-6=-292/36

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 92 RR 146126317 210430 J15 Diagonal Hip Girder Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:00 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-6x7?8IYUQsEKsMWhLu0pQuqi1LWQ8UEkgGaUfnzGdVr 5-9-15 1-9-3 4-4-13 1-5-2 Scale = 1:17.4 3x6 || 2x4 || 3.47 12 3x4 || 6 6x6 = 0-11-0 3x4 II 2.98 12

4-4-13	5-9-15
4-4-13	1-5-2

TOP CHORD

BOT CHORD

Plate Offsets	(A,Y)	[5:Euge,0-2-8]										
LOADING (p:	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.03	6-7	>999	360	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.06	6-7	>999	240		
BCLL C	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TP	PI2014	Matri	x-R	Wind(LL)	0.03	6-7	>999	240	Weight: 18 lb	FT = 10%

LUMBER-BRACING-

2x4 II

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

2-7: 2x4 SPF No.2

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

Max Horz 7=92(LC 22) Max Uplift 7=-135(LC 4), 5=-58(LC 8) Max Grav 7=410(LC 1), 5=232(LC 1)

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

TOP CHORD 2-7=-375/160

NOTES-

REACTIONS.

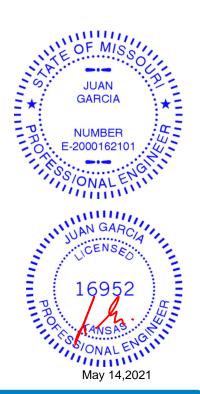
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for 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.
- Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 7=135.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 37 lb up at 3-7-3, and 110 lb down and 70 lb up at 3-9-12 on top chord, and 7 lb down and 11 lb up at 3-7-3, and 16 lb down at 3-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-4=-70, 6-7=-20, 5-6=-20 Concentrated Loads (lb)

Vert: 9=-6(F=-7, B=2)



Structural wood sheathing directly applied or 5-9-15 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

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



Job Truss Truss Type Qty Lot 92 RR 146126318 210430 J16 Jack-Closed

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:01 2021 Page 1 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-b8gNMeZ6BAMBUW5tvcX2y5NurksKtwRtvwK2CEzGdVq

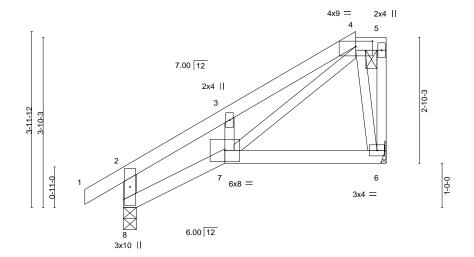
Structural wood sheathing directly applied or 5-11-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 4-5.

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

-0-10-8 0-10-8 2-3-8 2-3-8 2-11-8 0-8-4

Scale = 1:26.0



1	2-3-8	5-3-0	5-11-4	
	2-3-8	2-11-8	0-8-4	

BRACING-

TOP CHORD

BOT CHORD

Plate Offs	Plate Offsets (X,Y) [4:0-4-8,0-1-7]											
LOADING	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	0.29	Vert(LL)	-0.02	7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.04	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-S	Wind(LL)	0.01	7	>999	240	Weight: 24 lb	FT = 10%

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-8: 2x4 SPF No.2

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

Max Horz 8=111(LC 5)

Max Uplift 8=-8(LC 8), 6=-29(LC 5) Max Grav 8=334(LC 1), 6=250(LC 1)

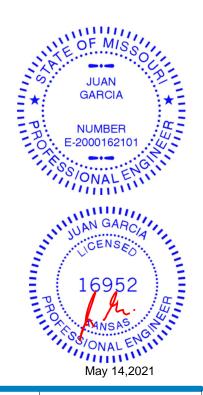
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-8=-385/42, 2-3=-380/35, 3-4=-336/92 TOP CHORD

BOT CHORD 7-8=-99/314

WEBS 4-7=-86/304, 4-6=-258/60

- 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) 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.
- * 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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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



Job Truss Truss Type Qty Ply Lot 92 RR 146126319 210430 J17 Jack-Closed

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:02 2021 Page 1 ID:Hr0UloyIgMOrZQ4rpild7XzssyG-3KEIZ_akyTU26gg4TJ2HVJv3i8CwcON18a3bkgzGdVp

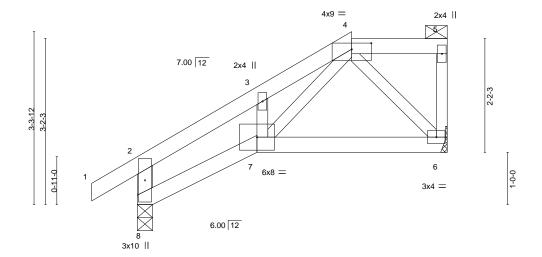
Structural wood sheathing directly applied or 5-11-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 4-5.

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



Scale = 1:22.1



2.3.8 3.7.12	2-3-8	5-11-4
2-3-0 3-1-12	2-3-8	3-7-12

Plate Of	fsets (X,Y)	[4:0-4-8,0-1-7]										
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	0.28	Vert(LL)	-0.02	` Ź	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.03	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.01	7	>999	240	Weight: 22 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-8: 2x4 SPF No.2

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

Max Horz 8=89(LC 5)

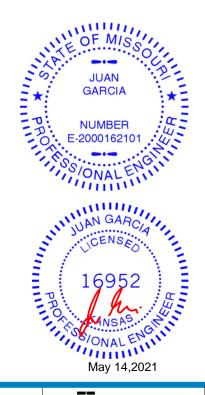
Max Uplift 8=-10(LC 8), 6=-24(LC 5) Max Grav 8=334(LC 1), 6=250(LC 1)

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

2-8=-385/40, 2-3=-364/30, 3-4=-278/74 TOP CHORD

BOT CHORD 7-8=-81/284

- 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) 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) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty Lot 92 RR 146126320 210430 J18 Jack-Closed Girder

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:03 2021 Page 1

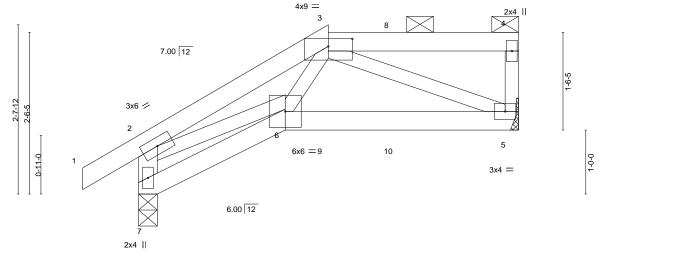
Structural wood sheathing directly applied or 5-11-4 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-XWo7nKbMjncvjpFG01ZW1WSDnYUiLneAMEp9G6zGdVo 0-10-8 2-11-9 2-11-11

Scale = 1:18.0



3-7-12

Plate Offsets (X, Y)	[3:0-4-8,0-1-7]			
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 0.32	Vert(LL) -0.02 5-6 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.06 5-6 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.24	Horz(CT) 0.01 5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.02 5-6 >999 240	Weight: 22 lb FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

2-7: 2x4 SPF No.2

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

Max Horz 7=82(LC 5)

Max Uplift 7=-102(LC 8), 5=-109(LC 5) Max Grav 7=491(LC 1), 5=462(LC 1)

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

2-7=-470/142, 2-3=-838/189 TOP CHORD

BOT CHORD 5-6=-160/497

WEBS 2-6=-122/689, 3-6=-75/397, 3-5=-545/164

- 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.
- * 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=102, 5=109.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 111 lb down and 91 lb up at 4-0-0 on top chord, and 209 lb down and 81 lb up at 2-11-9, and 68 lb down at 4-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) 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



Continued on page 2

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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



Truss Type Job Truss Qty Ply Lot 92 RR 146126320 210430 J18 Jack-Closed Girder

Wheeler Lumber,

Waverly, KS - 66871,

Job Reference (optional) 8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:03 2021 Page 2 ID:Hr0UloylgMOrZQ4rpild7XzssyG-XWo7nKbMjncvjpFG01ZW1WSDnYUiLneAMEp9G6zGdVo

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, 6-7=-20, 5-6=-20

Concentrated Loads (lb)

Vert: 8=-111(F) 9=-209(F) 10=-51(F)



Job	Truss	Truss Type	Qty	Ply	Lot 92 RR	
210430	J19	Jack-Open	4	_	146126321	
210430	1319	Јаск-Ореп	1	1	Job Reference (optional)	

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:03 2021 Page 1

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

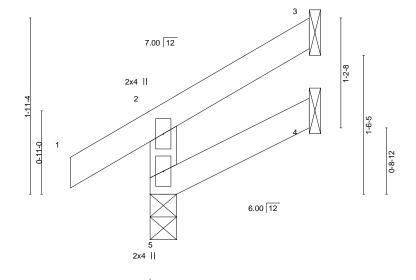
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

ID:Hr0UloylgMOrZQ4rpild7XzssyG-XWo7nKbMjncvjpFG01ZW1WSHhYbpLqKAMEp9G6zGdVo 1-9-0



Scale = 1:12.7



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 0.07	Vert(LL) -0.00 5 >999 240	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	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		Weight: 7 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

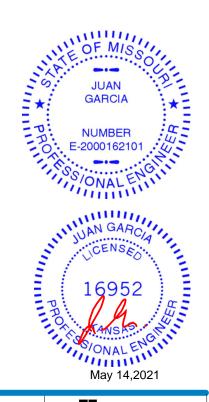
> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=48(LC 8)

> Max Uplift 5=-12(LC 8), 3=-35(LC 8), 4=-3(LC 8) Max Grav 5=166(LC 1), 3=44(LC 15), 4=29(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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 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.



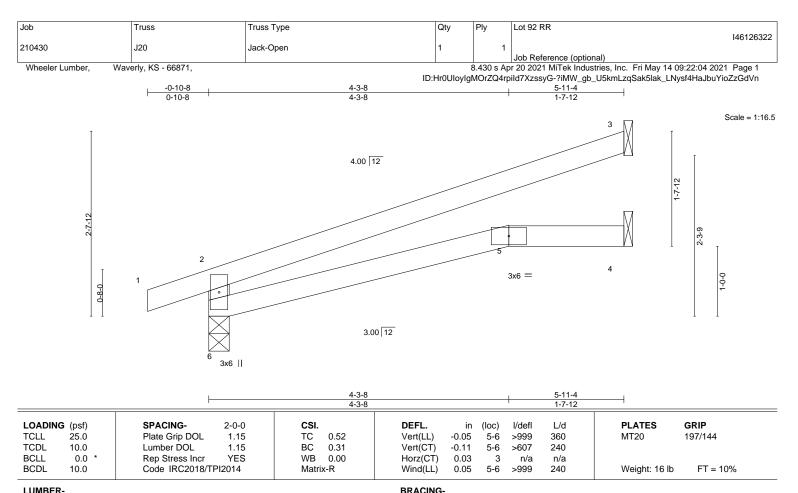


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TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

Max Horz 6=89(LC 4)

Max Uplift 6=-76(LC 4), 3=-83(LC 8)

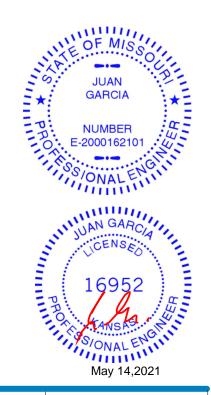
Max Grav 6=336(LC 1), 3=181(LC 1), 4=108(LC 3)

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

TOP CHORD 2-6=-292/126

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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

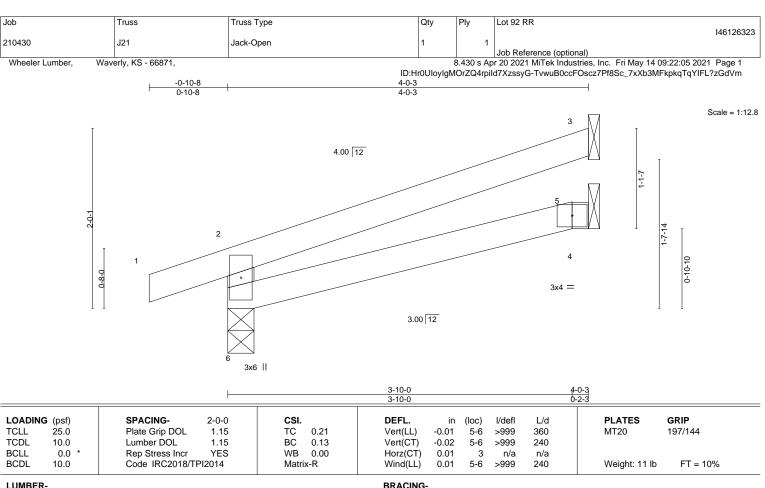


Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

except end verticals.





TOP CHORD

BOT CHORD

TOP CHORD

REACTIONS.

2x4 SPF No.2 2x4 SPF No.2

BOT CHORD WEBS 2x4 SPF No.2

> (size) 6=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 6=63(LC 4)

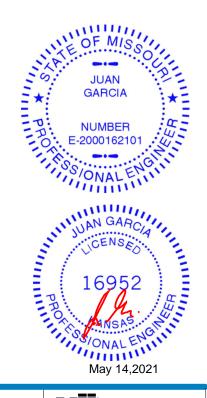
Max Uplift 6=-65(LC 4), 3=-56(LC 8)

Max Grav 6=252(LC 1), 3=117(LC 1), 4=71(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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-0-3 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Ply Lot 92 RR 146126324 210430 LAY1 **GABLE** Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:10 2021 Page 1

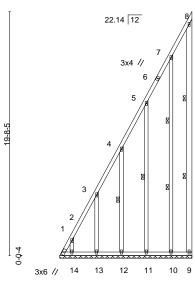
Wheeler Lumber,

Waverly, KS - 66871,

ID:Hr0UloyIgMOrZQ4rpild7XzssyG-qsjnFjgl4xVv3uHcx?B9q?ETZN_VUz7Czq?00CzGdVh

10-8-2

Scale = 1:93.0



10-8-2

BRACING-

		0-0-2	10-0-0				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL)	n/a	-	n/a	999
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999
BCLL 0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT)	-0.00	9	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S					

0-0-2

PLATES GRIP 197/144 MT20

Weight: 120 lb FT = 10%

LUMBER-

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

2x4 SPF No.2 **WEBS**

TOP CHORD Structural wood sheathing directly applied or 4-8-5 oc purlins, except end verticals.

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

1 Row at midpt 4-12, 5-11 2 Rows at 1/3 pts 8-9, 7-10

REACTIONS. All bearings 10-8-0.

Max Horz 1=768(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 9=-103(LC 8), 1=-680(LC 6), 14=-259(LC 8), 13=-320(LC 8),

12=-307(LC 8), 11=-324(LC 8), 10=-267(LC 8)

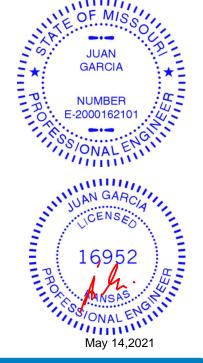
Max Grav All reactions 250 lb or less at joint(s) 9, 14 except 1=1409(LC 8), 13=294(LC 15), 12=281(LC 15),

11=295(LC 15), 10=253(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-1584/778, 2-3=-1352/667, 3-4=-1026/508, 4-5=-714/358, 5-7=-388/198 TOP CHORD **WEBS** 2-14=-196/255, 3-13=-253/347, 4-12=-242/331, 5-11=-254/347, 7-10=-219/297

OTHERS

- 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 exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 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 103 lb uplift at joint 9, 680 lb uplift at joint 1, 259 lb uplift at joint 14, 320 lb uplift at joint 13, 307 lb uplift at joint 12, 324 lb uplift at joint 11 and 267 lb uplift at joint 10.
- 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.





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

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



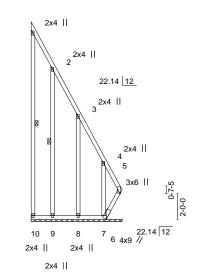
Job Truss Truss Type Qty Ply Lot 92 RR 146126325 210430 LAY2 **GABLE** Job Reference (optional)

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:10 2021 Page 1 ID: Hr 0 Uloy Ig MOr ZQ4 rpild 7 Xzssy G-qsjn Fjgl 4 x Vv 3 u Hcx ? B 9q? ET? Nyt Ux QCzq? 00 Cz GdVh And Cycle for the control of the cont

Scale = 1:90.3





5-10-11 7	7-1-11
5-10-11	1-3-0

Plate Offsets (X,Y)				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	(5:0-0-9,0-0-4	CSI. TC 0.13 BC 0.19 WB 0.30	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/144 Vert(CT) n/a - n/a 999 Horz(CT) 0.01 5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Weight: 71 lb FT = 10%	

LUMBER-

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

Structural wood sheathing directly applied or 5-3-3 oc purlins, except end verticals.

1-10, 2-9

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

7-9-13 oc bracing: 5-6. WFBS 1 Row at midpt

REACTIONS. All bearings 7-1-11.

Max Horz 10=-527(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 10 except 5=-1049(LC 7), 6=-1074(LC 9), 9=-293(LC 9),

8=-333(LC 9), 7=-532(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 10 except 5=2213(LC 9), 6=496(LC 7), 9=272(LC 16), 8=301(LC

16), 7=367(LC 7)

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

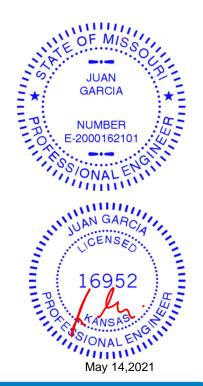
TOP CHORD 2-3=-404/207, 3-4=-739/371, 4-5=-1258/621

BOT CHORD 9-10=-255/527, 8-9=-255/527, 7-8=-255/527, 6-7=-255/527, 5-6=-580/1190

WEBS 2-9=-233/317, 3-8=-260/357, 4-7=-316/562

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 right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 5=1049, 6=1074, 9=293, 8=333, 7=532.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5.
- 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) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.





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146126326 210430 LAY3 **GABLE** Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:11 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-I3H9S3hNqEdmh2soUijOMCngomJWDSnLCUlaYfzGdVg 6-10-12 6-10-12 Scale = 1:27.6 4x5 = 7.94 12 3 2 11 10 3x4 // 3x4 <> 13-9-8 13-9-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 0.06 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S Weight: 47 lb FT = 10% **BRACING-**

TOP CHORD

BOT CHORD

Qty

Lot 92 RR

LUMBER-

Job

Truss

Truss Type

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

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

REACTIONS. All bearings 13-9-8. Max Horz 1=-111(LC 4)

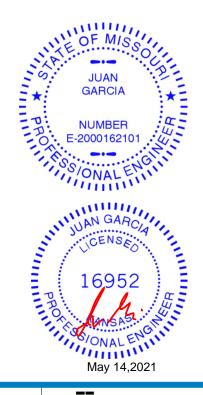
Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 12, 9, 8

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 12, 9, 8

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

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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 12, 9, 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 6-0-0 oc purlins.

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



Job Truss Truss Type Qty Lot 92 RR 146126327 210430 LAY4 **GABLE** Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:12 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-mFrXfPi?bYldICR?2QEdvQKqBAfPyvmVR8U745zGdVf 10-8-3 2-6-7 Scale = 1:27.8 4x5 \\ 6 0 22.14 12 4-9-0 x12 || 2-6-5 9 22.14 12 18 17 16 15 ¹³4x5 // 10 4x5 \\ 3x4 \\ 13-2-10 9-11-12 1-4-7 1-10-7 1-4-7 Plate Offsets (X,Y)--[7:0-1-15,Edge] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defl L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.09 Vert(LL) 999 197/144 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.01 9 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Weight: 65 lb Matrix-S LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x4 SPF No.2 except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-7. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

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

REACTIONS. All bearings 13-2-10.

Max Horz 18=-175(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 18, 17, 16, 15, 14 except 9=-164(LC 7), 13=-249(LC 9),

12=-303(LC 7), 11=-241(LC 9), 10=-246(LC 9)

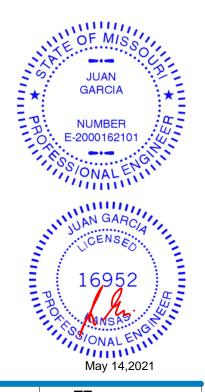
Max Grav All reactions 250 lb or less at joint(s) 18, 9, 13, 11, 17, 16, 15, 14, 10 except 12=502(LC 9)

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

TOP CHORD 8-9=-265/218

BOT CHORD 12-13=-241/301, 11-12=-242/301

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 17, 16, 15, 14 except (jt=lb) 9=164, 13=249, 12=303, 11=241, 10=246.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 12.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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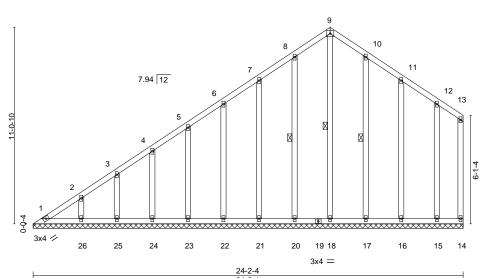
Job Truss Truss Type Qty Lot 92 RR 146126328 210430 LAY5 **GABLE** Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:14 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-iezl45jG79?LYWbNArG5_rP9a_KnQnJouSzE9zzGdVd

16-8-8 7-5-12

4x5 =

Scale = 1:64.8



LOADIN	VI /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(C1) -0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 147 lb	FT = 10%

LUMBER-

2x4 SPF No 2 TOP CHORD

BOT CHORD 2x4 SPF No.2 2x4 SPF No.2 WEBS **OTHERS** 2x4 SPF No.2 BRACING-

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

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **WEBS** 9-18, 8-20, 10-17 1 Row at midpt

REACTIONS. All bearings 24-2-4.

(lb) -Max Horz 1=361(LC 5)

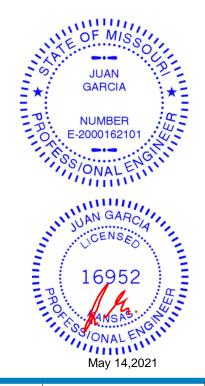
Max Uplift All uplift 100 lb or less at joint(s) 14, 20, 21, 22, 23, 24, 25, 26, 17, 16, 15 except 1=-111(LC 4),

18=-109(LC 7)

Max Grav All reactions 250 lb or less at joint(s) 1, 14, 18, 20, 21, 22, 23, 24, 25, 26, 17, 16, 15

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-361/292, 2-3=-319/260, 3-4=-294/241, 4-5=-276/237, 5-6=-258/232

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 14, 20, 21, 22, 23, 24, 25, 26, 17, 16, 15 except (jt=lb) 1=111, 18=109.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job	Truss	Truss Type	Qty	Ply	Lot 92 RR	
040400	1.43/0	CARLE	_	_	146126329	
210430	LAY6	GABLE	1	1	Job Reference (optional)	

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:14 2021 Page 1 ID:Hr0UloylgMOrZQ4rpild7XzssyG-iezl45jG79?LYWbNArG5_rP9Y_LVQpFouSzE9zzGdVd

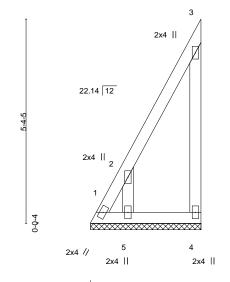
Structural wood sheathing directly applied or 2-10-14 oc purlins,

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

except end verticals.

2-10-14

Scale = 1:30.2



LOADING (p	osf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25	5.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10	0.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL (0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10	0.0	Code IRC2018/TF	PI2014	Matri	x-P						Weight: 16 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

OTHERS 2x4 SPF No.2

REACTIONS. (size) 1=2-10-12, 4=2-10-12, 5=2-10-12

Max Horz 1=182(LC 5)

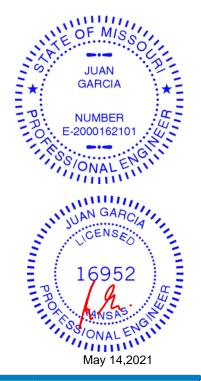
Max Uplift 1=-211(LC 6), 4=-127(LC 7), 5=-275(LC 8) Max Grav 1=265(LC 5), 4=135(LC 15), 5=256(LC 15)

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

1-2=-300/253 TOP CHORD WEBS 2-5=-220/296

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=211, 4=127, 5=275,
- 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 Lot 92 RR 146126330 210430 V1 Valley Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:15 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-AqXglRkuuT7CAfAajYnKW2yJgOgu9GJx76jnhQzGdVc

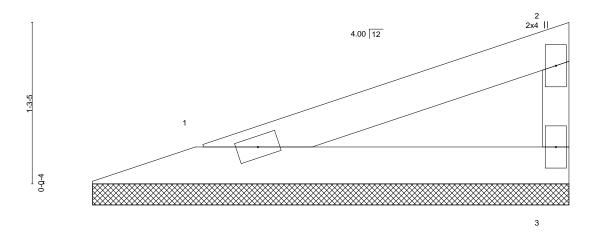
Structural wood sheathing directly applied or 3-9-15 oc purlins,

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

except end verticals.

3-9-15

Scale = 1:9.1



2x4 = 2x4 ||

BRACING-

TOP CHORD

BOT CHORD

				1								
LOADIN	G (psf)	SPACING- 2-0	-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YE	S	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	1	Matri	x-P	, ,					Weight: 8 lb	FT = 10%

LUMBER-

REACTIONS.

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

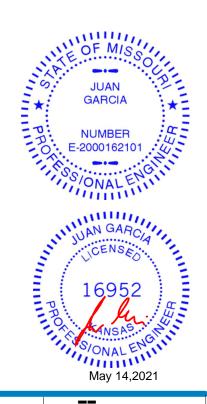
WEBS 2x3 SPF No.2

> 1=3-9-3, 3=3-9-3 (size) Max Horz 1=42(LC 5) Max Uplift 1=-20(LC 4), 3=-27(LC 8) Max Grav 1=125(LC 1), 3=125(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 92 RR 146126331 210430 V2 Valley Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:17 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-7DeQj6l8Q4NvPzJyrzpocT1VzBGpdAoEaQCumlzGdVa 7-3-15 7-3-15 Scale = 1:15.6 2x4 || 2 4.00 12 0-0-4 3 2x4 = 2x4 ||

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc)	l/defl	L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.79	Vert(LL) n/a	ı -	n/a	999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.43	Vert(CT) n/a	ı -	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: 17 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

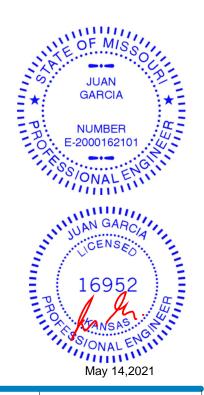
REACTIONS. 1=7-3-3, 3=7-3-3 (size)

Max Horz 1=94(LC 5) Max Uplift 1=-46(LC 4), 3=-60(LC 8) Max Grav 1=283(LC 1), 3=283(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

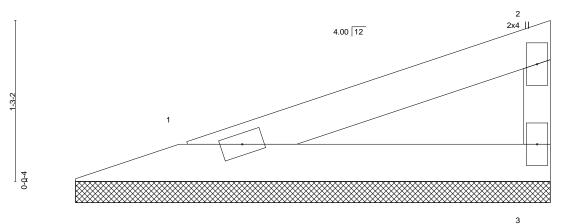


Structural wood sheathing directly applied or 7-3-15 oc purlins,

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



Job Truss Truss Type Qty Lot 92 RR 146126332 210430 V3 Valley Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:17 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-7DeQj6l8Q4NvPzJyrzpocT1fDBLOdAoEaQCumIzGdVa 3-9-7 Scale = 1:9.0



2x4 = 2x4 II

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.13 BC 0.07	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0.00 3 n/a n/a	Weight: 8 lb FT = 10%

LUMBER-

REACTIONS.

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

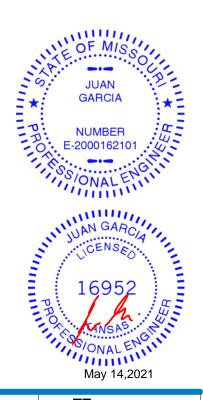
2x3 SPF No.2

1=3-8-11, 3=3-8-11 (size) Max Horz 1=41(LC 5) Max Uplift 1=-20(LC 4), 3=-26(LC 8) Max Grav 1=123(LC 1), 3=123(LC 1)

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

NOTES-

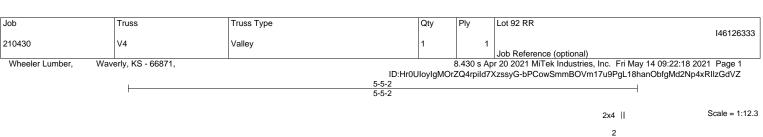
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

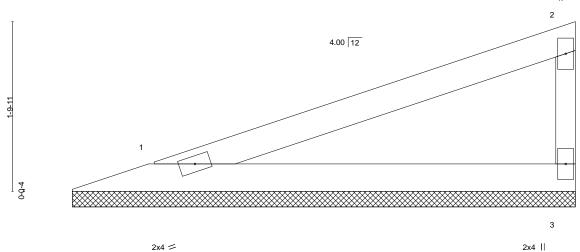


Structural wood sheathing directly applied or 3-9-7 oc purlins,

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







LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.36 BC 0.20 WB 0.00	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) -0.00	a -	l/defl n/a n/a	L/d 999 999	PLATES MT20	GRIP 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	H012(C1) -0.00) s	n/a	n/a	Weight: 13 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-BOT CHORD

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

WEBS 2x3 SPF No.2

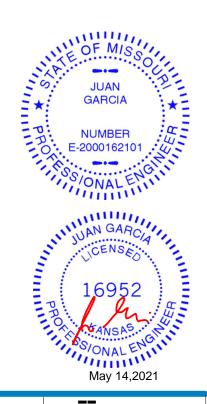
REACTIONS. 1=5-4-6, 3=5-4-6 (size) Max Horz 1=66(LC 5)

Max Uplift 1=-32(LC 4), 3=-42(LC 8) Max Grav 1=197(LC 1), 3=197(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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



Job Truss Truss Type Qty Lot 92 RR 146126334 210430 V5 Valley Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:18 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-bPCowSmmBOVm17u9PgL18hakLbe0McXNp4xRllzGdVZ 11-6-15 Scale = 1:23.5 2x4 || 4.00 12 2x4 || 2

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 0.55	Vert(LL) n	/a -	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) n	/a -	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) -0.0	00 4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S					Weight: 30 lb	FT = 10%

BOT CHORD

2x4 ||

LUMBER-BRACING-TOP CHORD

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

OTHERS 2x3 SPF No.2

REACTIONS. (size) 1=11-6-3, 4=11-6-3, 5=11-6-3

3x4 =

Max Horz 1=157(LC 5)

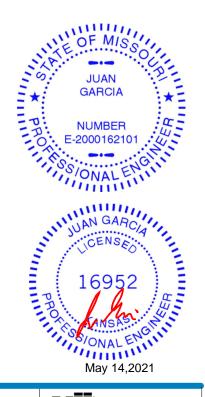
Max Uplift 1=-22(LC 4), 4=-16(LC 5), 5=-149(LC 8) Max Grav 1=242(LC 1), 4=79(LC 1), 5=628(LC 1)

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

2-5=-472/215 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=149
- 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.



⁴ 2x4 ||

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

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



Job Truss Truss Type Qty Lot 92 RR 146126335 210430 V6 Valley Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:19 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-3bmB7onOyiddeHTLyOsGhu6_a?1I54RX2kh?qBzGdVY 8-0-15 Scale = 1:16.9 2x4 || 4.00 12 2x4 | 0-0-4 5

LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.20 BC 0.11	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.06 Matrix-P	Horz(CT) -0.00 4 n/a n/a	Weight: 20 lb FT = 10%

BOT CHORD

2x4 |

LUMBER-BRACING-TOP CHORD

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

2x3 SPF No.2

(size) 1=8-0-3, 4=8-0-3, 5=8-0-3 Max Horz 1=105(LC 5) Max Uplift 4=-25(LC 8), 5=-95(LC 8)

Max Grav 1=95(LC 1), 4=138(LC 1), 5=399(LC 1)

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

2x4 =

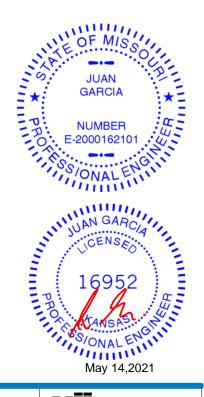
2-5=-310/148 WEBS

NOTES-

OTHERS

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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

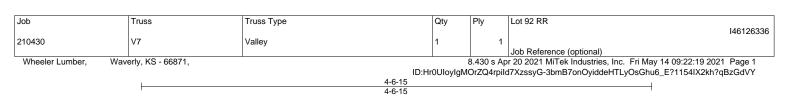


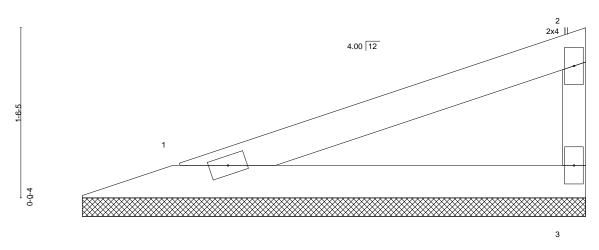
2x4 ||

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

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







2x4 = 2x4 ||

BRACING-

TOP CHORD

BOT CHORD

						T						
LOADING	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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	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: 10 lb	FT = 10%

LUMBER-

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

WEBS 2x3 SPF No.2

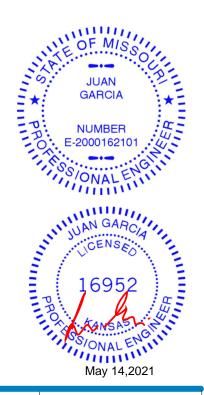
REACTIONS. 1=4-6-3, 3=4-6-3 (size) Max Horz 1=53(LC 5)

Max Uplift 1=-26(LC 4), 3=-34(LC 8) Max Grav 1=159(LC 1), 3=159(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-6-15 oc purlins,

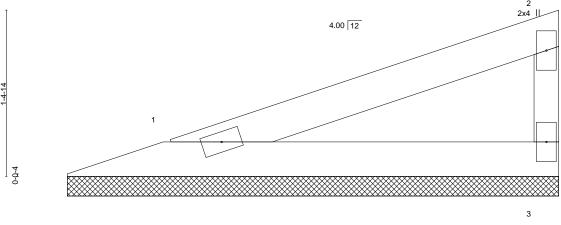
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Scale = 1:10.3



Job Truss Truss Type Qty Lot 92 RR 146126337 210430 V8 Valley Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:20 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-XnKZL8o0j?IUGR2XW5NVD6fAiPNgqXYgHOQYMdzGdVX 4-2-11 Scale = 1:9.8 2x4 ||



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 0.18 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.10 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 Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 9 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

> 1=4-1-15, 3=4-1-15 (size) Max Horz 1=48(LC 5) Max Uplift 1=-23(LC 4), 3=-30(LC 8) Max Grav 1=143(LC 1), 3=143(LC 1)

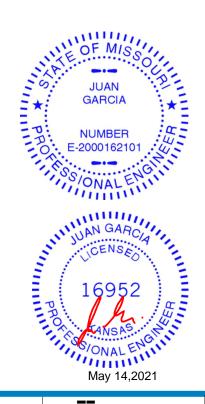
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

2x4 =

- 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.



2x4 ||

Structural wood sheathing directly applied or 4-2-11 oc purlins,

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



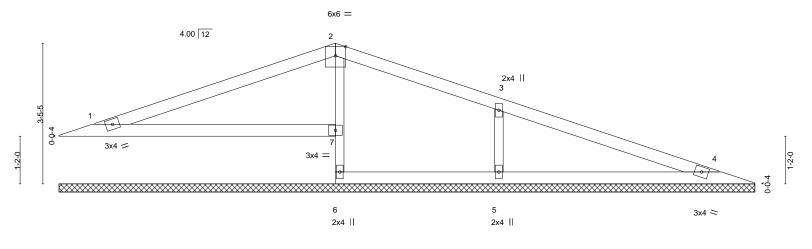
Job Truss Truss Type Qty Lot 92 RR 146126338 210430 V9 Valley Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:21 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-?_uxYUpfUJtLuadj4pukmJCGcog3ZydqV2A6v3zGdVW

10-3-15

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

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

Scale = 1:28.2



0-0-12	6-9-3		10-3-15					
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 0.49 V BC 0.28 V	DEFL. in (loc) l/defl L/d /ert(LL) n/a - n/a 999 /ert(CT) n/a - n/a 999 Horz(CT) 0.00 6 n/a n/a	PLATES GRIP MT20 197/144 Weight: 41 lb FT = 10%				

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

2-6: 2x3 SPF No.2 2x3 SPF No.2

REACTIONS. All bearings 17-0-6. (lb) -Max Horz 1=-82(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 4, 7 except 5=-122(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 4, 6 except 1=251(LC 21), 7=405(LC 1), 5=525(LC 22)

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

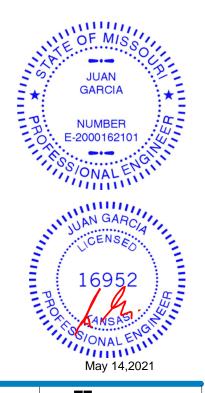
6-9-15

2-7=-329/71 BOT CHORD WEBS 3-5=-395/182

NOTES-

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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4, 7 except
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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



Job Truss Truss Type Qty Lot 92 RR 146126339 Valley 210430 V10 Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:15 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloylgMOrZQ4rpild7XzssyG-AqXglRkuuT7CAfAajYnKW2yELOdY9GJx76jnhQzGdVc 3-3-15 6-9-15 Scale = 1:16.6 6x6 = 4.00 12 2 2x4 = 1-2-0 3x4 II 3x4 > 10-1-14 6-9-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 0.48 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.29 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Weight: 23 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SPF No.2

2x4 SPF No.2 *Except* BOT CHORD

2-4: 2x3 SPF No.2

REACTIONS. All bearings 10-0-6. Max Horz 1=-62(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 3, 5

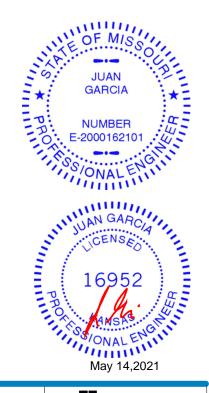
Max Grav All reactions 250 lb or less at joint(s) 1, 3, 4 except 5=348(LC 1)

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

2-5=-318/98

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
- Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 5.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

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 sand truss systems, see

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



Job Truss Truss Type Qty Ply Lot 92 RR 146126340 210430 V11 Valley Job Reference (optional)
8.430 s Apr 20 2021 MiTek Industries, Inc. Fri May 14 09:22:16 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:Hr0UloyIgMOrZQ4rpild7XzssyG-e052VnlWfnF3nplmHFIZ3GUUan0iujY5MmSLDszGdVb 4-6-15 1-3-9 3-3-6 Scale = 1:8.7 3x4 = 2 4.00 12 3 9-0-4 2x4 || 2x4 > Plate Offsets (X,Y)--[2:0-2-0,0-2-13]

DEFL.

TOP CHORD

BOT CHORD

in (loc) I/defl

TCLL 25.0 Plate Grip DOL 1.15 TC 0.19 Vert(LL) n/a n/a TCDL 10.0 Lumber DOL 1.15 ВС 0.10 Vert(CT) n/a **BCLL**

2-0-0

n/a 999 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 **BCDL** 10.0 Matrix-R LUMBER-**BRACING-**

CSI

Structural wood sheathing directly applied or 4-6-15 oc purlins,

PLATES

Weight: 10 lb

MT20

GRIP

197/144

FT = 10%

except end verticals, and 2-0-0 oc purlins: 1-2. Rigid ceiling directly applied or 10-0-0 oc bracing.

L/d

999

WEBS 2x3 SPF No.2 REACTIONS. (size) 4=4-6-3, 3=4-6-3

2x4 SPF No.2

TOP CHORD 2x4 SPF No.2

Max Horz 4=-36(LC 4) Max Uplift 4=-31(LC 5), 3=-28(LC 5) Max Grav 4=159(LC 1), 3=159(LC 1)

SPACING-

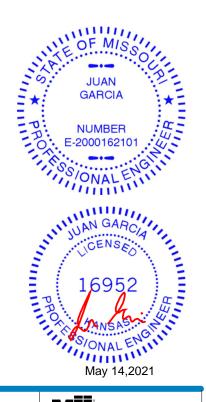
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

LOADING (psf)

BOT CHORD

- 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) 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) 4, 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



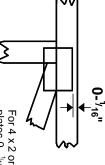


Symbols

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



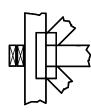
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

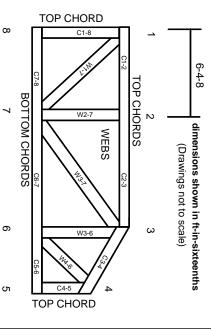
Industry Standards:

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
- 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.