

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 05/14/2021

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

RE: 210401 Lot 129 H4

Site Information:

Customer: Project Name: 210401

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

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	145381980	A1	4/21/2021	21	145382000	C4	4/21/2021
2	I45381981	A2	4/21/2021	22	I45382001	C5	4/21/2021
3	I45381982	A3	4/21/2021	23	145382002	D1	4/21/2021
4	I45381983	A4	4/21/2021	24	145382003	D2	4/21/2021
5	I45381984	B1	4/21/2021	25	145382004	D3	4/21/2021
6	I45381985	B2	4/21/2021	26	145382005	D4	4/21/2021
7	I45381986	B3	4/21/2021	27	145382006	D5	4/21/2021
8	145381987	B4	4/21/2021	28	145382007	D6	4/21/2021
9	I45381988	B6	4/21/2021	29	145382008	D7	4/21/2021
10	I45381989	B7	4/21/2021	30	145382009	D8	4/21/2021
11	I45381990	B8	4/21/2021	31	I45382010	D9	4/21/2021
12	I45381991	B9	4/21/2021	32	I45382011	D10	4/21/2021
13	I45381992	B10	4/21/2021	33	I45382012	D11	4/21/2021
14	I45381993	B11	4/21/2021	34	I45382013	D12	4/21/2021
15	I45381994	B12	4/21/2021	35	I45382014	D13	4/21/2021
16	I45381995	B13	4/21/2021	36	I45382015	E1	4/21/2021
17	I45381996	B14	4/21/2021	37	I45382016	E2	4/21/2021
18	145381997	C1	4/21/2021	38	I45382017	E3	4/21/2021
19	145381998	C2	4/21/2021	39	I45382018	J1	4/21/2021
20	I45381999	C3	4/21/2021	40	I45382019	J2	4/21/2021

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.





RE: 210401 - Lot 129 H4

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

Site Information:

Project Name: 210401

Project Customer: Lot/Block: Address: Subdivision:

City, County: State:

No.	Seal#	Truss Name	Date
41	145382020	J3	4/21/2021
42	145382021	J4	4/21/2021
43	145382022	J5	4/21/2021
44	145382023	J6	4/21/2021
45	145382024	J7	4/21/2021
46	145382025	J8	4/21/2021
47	145382026	J9	4/21/2021
48	145382027	J10	4/21/2021
49	145382028	J10A	4/21/2021
50	145382029	J11	4/21/2021
51	145382030	J12	4/21/2021
52	145382031	J13	4/21/2021
53	145382032	J14	4/21/2021
54	145382033	J15	4/21/2021
55	145382034	J16	4/21/2021
56	145382035	J17	4/21/2021
57	145382036	J18	4/21/2021
58	145382037	J19	4/21/2021
59	145382038	J20	4/21/2021
60	145382039	J21	4/21/2021
61	145382040	LAY1	4/21/2021
62	145382041	LAY2	4/21/2021
63	145382042	LAY3	4/21/2021
64	145382043	LAY4	4/21/2021
65	145382044	V1	4/21/2021
66	145382045	V2	4/21/2021



RE: 210401 Lot 129 H4 MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: 210401

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

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	145381980	A1	4/21/2021	21	145382000	C4	4/21/2021
2	I45381981	A2	4/21/2021	22	145382001	C5	4/21/2021
3	145381982	A3	4/21/2021	23	145382002	D1	4/21/2021
4	145381983	A4	4/21/2021	24	145382003	D2	4/21/2021
5	145381984	B1	4/21/2021	25	145382004	D3	4/21/2021
6	145381985	B2	4/21/2021	26	145382005	D4	4/21/2021
7	145381986	B3	4/21/2021	27	145382006	D5	4/21/2021
8	145381987	B4	4/21/2021	28	145382007	D6	4/21/2021
9	145381988	B6	4/21/2021	29	145382008	D7	4/21/2021
10	145381989	B7	4/21/2021	30	145382009	D8	4/21/2021
11	145381990	B8	4/21/2021	31	145382010	D9	4/21/2021
12	145381991	B9	4/21/2021	32	145382011	D10	4/21/2021
13	145381992	B10	4/21/2021	33	145382012	D11	4/21/2021
14	145381993	B11	4/21/2021	34	145382013	D12	4/21/2021
15	145381994	B12	4/21/2021	35	145382014	D13	4/21/2021
16	145381995	B13	4/21/2021	36	145382015	E1	4/21/2021
17	145381996	B14	4/21/2021	37	145382016	E2	4/21/2021
18	145381997	C1	4/21/2021	38	145382017	E3	4/21/2021
19	I45381998	C2	4/21/2021	39	145382018	J1	4/21/2021
20	145381999	C3	4/21/2021	40	145382019	J2	4/21/2021

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.



April 21, 2021



RE: 210401 - Lot 129 H4

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

Site Information:

Project Name: 210401

Project Customer: Lot/Block: Address: Subdivision:

City, County: State:

No.	Seal#	Truss Name	Date
41	145382020	J3	4/21/2021
42	145382021	J4	4/21/2021
43	145382022	J5	4/21/2021
44	145382023	J6	4/21/2021
45	145382024	J7	4/21/2021
46	145382025	J8	4/21/2021
47	145382026	J9	4/21/2021
48	145382027	J10	4/21/2021
49	145382028	J10A	4/21/2021
50	145382029	J11	4/21/2021
51	145382030	J12	4/21/2021
52	145382031	J13	4/21/2021
53	145382032	J14	4/21/2021
54	145382033	J15	4/21/2021
55	145382034	J16	4/21/2021
56	145382035	J17	4/21/2021
57	145382036	J18	4/21/2021
58	145382037	J19	4/21/2021
59	145382038	J20	4/21/2021
60	145382039	J21	4/21/2021
61	145382040	LAY1	4/21/2021
62	145382041	LAY2	4/21/2021
63	145382042	LAY3	4/21/2021
64	145382043	LAY4	4/21/2021
65	145382044	V1	4/21/2021
66	145382045	V2	4/21/2021

Job Truss Truss Type Qty Ply Lot 129 H4 145381980 210401 A1 Hip Girder Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:07 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:pq50?Ycap6WpLXoTu4wfY2za1nE-qjdAScIADYzh_RA4?GHgaHhd8L8W6YbEUNj2DWzX3ec

3-1-8

10-1-8

3-1-8

12-0-0

1-10-8

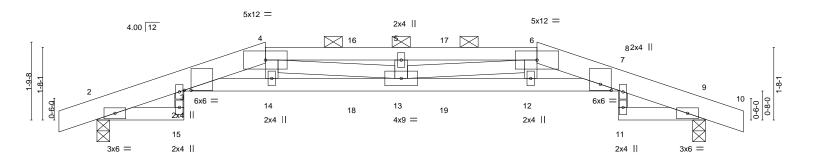
14-0-0

2-0-0

Scale = 1:26.5

14-10-8

0-10-8



<u> </u>	2-0-0 2-0-0	3-10-8 1-10-8	7-0-0 3-1-8	-	10-1-8 3-1-8		12-0-0	14-0-0	—
Plate Offsets (X,Y)	[3:0-1-15,0-0-0],							200	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING Plate Grip Lumber I Rep Stres Code IRG	DOL 1.15 DOL 1.15	CSI. TC 0.86 BC 0.73 WB 0.09 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (l -0.20 -0.35 0.19 0.17	13 >8 13 >4	.67 240 n/a n/a	PLATES MT20 Weight: 100 lb	GRIP 197/144 FT = 10%

LUMBER-BRACING-

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except 4-6: 2x4 SPF No.2 2-0-0 oc purlins (5-7-2 max.): 4-6. **BOT CHORD** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing

WEBS 2x4 SPF No.2 *Except* 3-15,8-11: 2x3 SPF No.2

Max Horz 2=27(LC 29) Max Uplift 2=-256(LC 4), 9=-253(LC 5)

(size) 2=0-3-8, 9=0-3-8

Max Grav 2=1010(LC 1), 9=1015(LC 1)

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

TOP CHORD 2-3=-425/117, 3-4=-3965/896, 4-5=-4633/1031, 5-6=-4633/1031, 6-7=-3987/872,

7-8=-76/441, 8-9=-384/108

3-14=-894/4091, 13-14=-874/4032, 12-13=-827/4022, 7-12=-818/3953 **BOT CHORD**

WEBS 4-13=-155/696, 5-13=-264/118, 6-13=-166/708, 6-12=-43/347

REACTIONS.

0-10-8

2-0-0

1-10-8

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

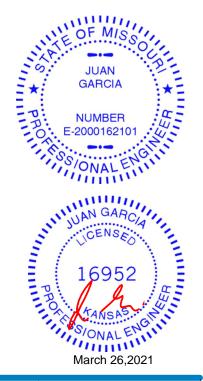
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.

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

Webs connected as follows: 2x3 - 1 row at 0-9-0 oc, 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
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=256, 9=253,
- 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) 97 lb down and 60 lb up at 3-10-8, 97 lb down and 60 lb up at 5-11-4, and 97 lb down and 60 lb up at 8-0-12, and 97 lb down and 60 lb up at 10-1-8 on top chord, and 195 lb down and 68 lb up at 3-10-8, 12 lb down at 5-11-4, and 12 lb down at 8-0-12, and 195 lb down and 68 lb up at

Contifued throughetom chord. The design/selection of such connection device(s) is the responsibility of others.





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

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



Job Truss Truss Type Qty Ply Lot 129 H4 145381980 210401 Α1 Hip Girder **Z** Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:07 2021 Page 2

Wheeler Lumber,

Waverly, KS - 66871,

ID:pq50?Ycap6WpLXoTu4wfY2za1nE-qjdAScIADYzh_RA4?GHgaHhd8L8W6YbEUNj2DWzX3ec

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-6=-70, 6-10=-70, 2-15=-20, 3-7=-20, 9-11=-20

Concentrated Loads (lb)

Vert: 4=-65(F) 6=-65(F) 14=-195(F) 12=-195(F) 16=-65(F) 17=-65(F) 18=-4(F) 19=-4(F)



Job Truss Truss Type Qty Ply Lot 129 H4 145381981 210401 A2 Hip Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:08 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:pq50?Ycap6WpLXoTu4wfY2za1nE-IvBYfxJo_s5YcbkGZ_ov7VDqnlWfr0QOj0TclyzX3eb 14-10-0 11-11-8 13-11-8

3-10-8

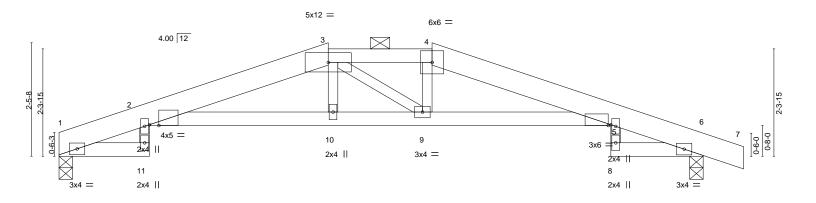
2-3-0

Scale = 1:25.0

0-10-8

2-0-0

Structural wood sheathing directly applied or 3-8-6 oc purlins, except



1-11-8 1-11-8	5-10-0 3-10-8		-1-0 -3-0	<u>11-11-8</u> 3-10-8		13-11-8 2-0-0	—
Plate Offsets (X,Y) [2:0-2-7,Edge], [5:0-0-11,Edge]						
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.74 BC 0.61 WB 0.05 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) I/defl -0.16 5-9 >999 -0.29 5-9 >570 0.21 6 n/a 0.12 2-10 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 47 lb	GRIP 197/144 FT = 10%

LUMBER-BRACING-

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

3-10-8

3-4: 2x4 SPF No.2 2-0-0 oc purlins (4-7-14 max.): 3-4. **BOT CHORD** 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

2x3 SPF No.2 REACTIONS. (size) 1=0-3-8, 6=0-3-8

1-11-8

Max Horz 1=-42(LC 13)

Max Uplift 1=-97(LC 4), 6=-142(LC 5) Max Grav 1=612(LC 1), 6=689(LC 1)

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

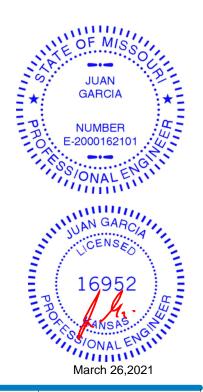
1-2=-251/70, 2-3=-1587/227, 3-4=-1534/215, 4-5=-1586/203 TOP CHORD

2-10=-184/1531, 9-10=-182/1536, 5-9=-146/1529 BOT CHORD

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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) 1 except (jt=lb) 6=142.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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

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



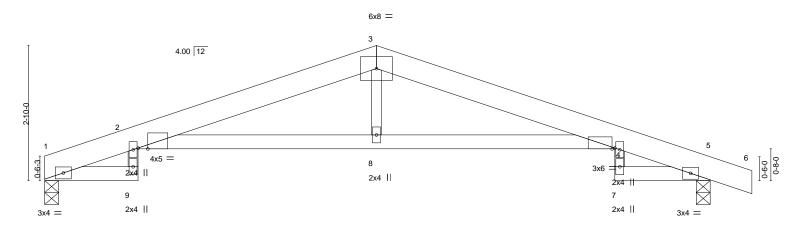
Job Truss Truss Type Qty Ply Lot 129 H4 145381982 210401 **A3** Roof Special 1 Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:09 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:pq50?Ycap6WpLXoTu4wfY2za1nE-n6lwtHKQlADPDlJT6hJ8gim?B8r0aRDXxgC9lPzX3ea 14-10-0 11-11-8 13-11-8

5-0-0

Scale: 1/2"=1

0-10-8

2-0-0



<u> </u>	1-11-8 1-11-8		6-11-8 5-0-0			+		11-11-0 5-0-0			13-11-8	
Plate Offs	sets (X,Y)	[2:0-2-7,Edge], [4:0-0-11						3-0-0			2-0-0	
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	0.76	Vert(LL)	-0.17	2-8	>964	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.32	4-8	>520	240		
3CLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.22	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	(-S	Wind(LL)	0.13	2-8	>999	240	Weight: 46 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

5-0-0

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

1-11-8

REACTIONS. (size) 1=0-3-8, 5=0-3-8

Max Horz 1=-49(LC 13) Max Uplift 1=-89(LC 4), 5=-135(LC 5) Max Grav 1=612(LC 1), 5=689(LC 1)

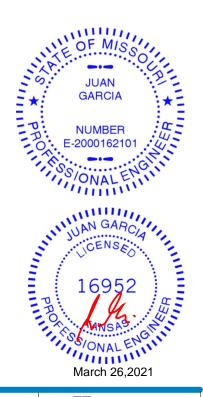
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-251/71, 2-3=-1458/159, 3-4=-1458/174

BOT CHORD 2-8=-114/1394, 4-8=-114/1394

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 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.



Structural wood sheathing directly applied or 3-6-3 oc purlins.

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



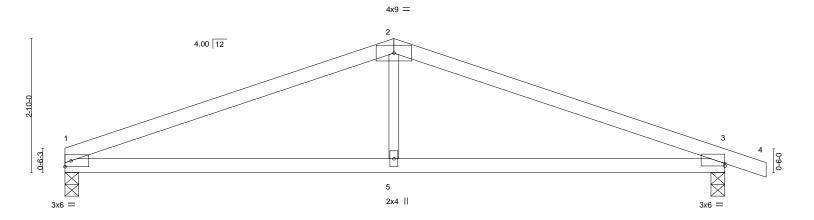
Job Truss Truss Type Qty Ply Lot 129 H4 145381983 210401 A4 Common Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:09 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:pq50?Ycap6WpLXoTu4wfY2za1nE-n6lwtHKQlADPDlJT6hJ8gim_c8tXaRpXxgC9lPzX3ea 14-10-0 13-11-8 7-0-0 0-10-8

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

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

Scale = 1:24.4



		,	J-11-U							13-11-0		
		6	6-11-8			1				7-0-0		
Plate Offse	ets (X,Y)	[3:0-0-0,0-0-10]										
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	0.80	Vert(LL)	-0.06	3-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.14	3-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	(-S	Wind(LL)	0.05	3-5	>999	240	Weight: 36 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 1=0-3-8, 3=0-3-8

Max Horz 1=-48(LC 13) Max Uplift 1=-89(LC 4), 3=-135(LC 5)

Max Grav 1=612(LC 1), 3=689(LC 1)

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

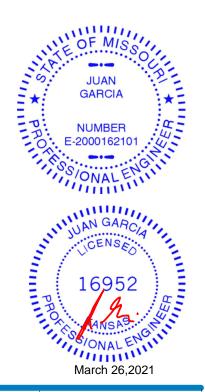
6-11-8

1-2=-1096/130, 2-3=-1097/134 TOP CHORD **BOT CHORD** 1-5=-76/955, 3-5=-76/955

WFBS 2-5=0/332

NOTES-

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



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 129 H4 145381984 210401 **B1** Monopitch Supported Gable

Wheeler Lumber, Waverly, KS - 66871,

0-10-8

Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:10 2021 Page 1 ID:pq50?Ycap6WpLXoTu4wfY2za1nE-FIJI4dL2WTLGruufgOqNCwJKmYKxJvLgAKyjqrzX3eZ

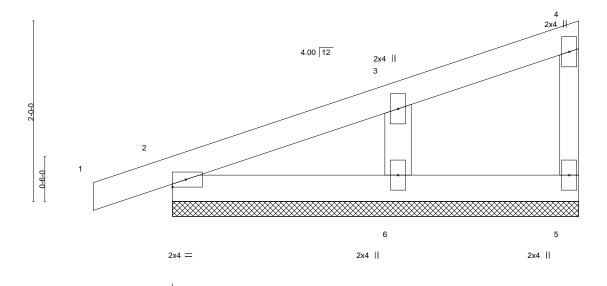
Structural wood sheathing directly applied or 4-6-0 oc purlins,

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

except end verticals.

4-6-0 4-6-0

Scale = 1:12.8



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.07	DEFL. in (loc) l/defl Vert(LL) 0.00 1 n/r	L/d 120	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.04 WB 0.02 Matrix-P	Vert(CT) 0.00 1 n/r Horz(CT) -0.00 5 n/a	120 n/a	Weight: 14 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2 **OTHERS** 2x4 SPF No.2

(size) 5=4-6-0, 2=4-6-0, 6=4-6-0

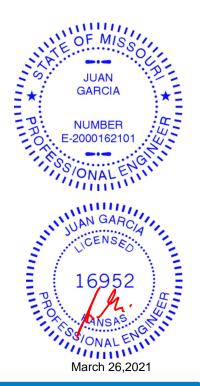
Max Horz 2=76(LC 5)

Max Uplift 5=-9(LC 5), 2=-49(LC 4), 6=-58(LC 8) Max Grav 5=59(LC 1), 2=165(LC 1), 6=233(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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) 5, 2, 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.



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 129 H4 145381985 210401 B2 Monopitch Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:15 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:pq50?Ycap6WpLXoTu4wfY2za1nE-bF6B7LOBK?_YxgncTyQYvz07wZ0u_AwQKcfTV2zX3eU 0-10-8 4-6-0 Scale = 1:12.8 2x4 4 4.00 12 0-9-0 2x4 = 2x4 || 4-6-0 4-6-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 25.0 Plate Grip DOL 1.15 Vert(LL) -0.02 360 197/144 **TCLL** TC 0.30 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.18 Vert(CT) -0.04 2-4 >999 240

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.00

0.00

n/a ****

except end verticals.

n/a

240

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

Structural wood sheathing directly applied or 4-6-0 oc purlins,

Weight: 13 lb

FT = 10%

LUMBER-

REACTIONS.

BCLL

BCDL

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

WEBS 2x3 SPF No.2

0.0

10.0

4=Mechanical, 2=0-3-8 (size) Max Horz 2=76(LC 5) Max Uplift 4=-40(LC 8), 2=-78(LC 4) Max Grav 4=183(LC 1), 2=271(LC 1)

Rep Stress Incr

Code IRC2018/TPI2014

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

WB

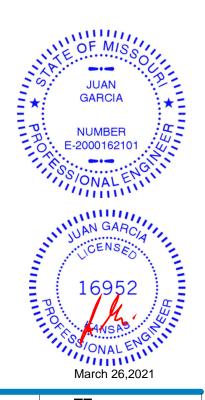
Matrix-P

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) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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





ID:yQVeL3JaMLDqBo68G2v5nvznYPw-3SgZLgPp5J6PZpMp1fxnSAZJszKNjbRZYGP12VzX3eT 5-0-0 5-0-0 0-10-8

Scale = 1:13.6 3 4x9 =4.00 12 2

⁴3x4 ||

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

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

except end verticals.

4-9-0

BOT CHORD

Plate Offs	sets (X,Y)	[2:0-1-5,0-7-1], [2:0-0-0,0-	-0-14], [3:Edg	e,0-1-14], [4:	Edge,0-2-8]							
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.01	2-4	>999	240	Weight: 15 lb	FT = 10%

LUMBER-BRACING-TOP CHORD

3x4 =

3x6 |

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

0-9-0

OTHERS 2x4 SPF No.2 WEDGE

Left: 2x3 SPF No.2

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

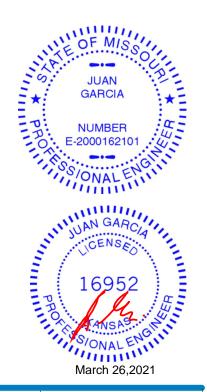
Max Horz 2=65(LC 5)

Max Uplift 2=-77(LC 4), 6=-44(LC 8) Max Grav 2=294(LC 1), 6=179(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
- 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) 2, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 129 H4 145381987 210401 В4 Monopitch Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:17 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-YeEyY0QRsdEGBzw?aNS0_O5UzNhPS3Dinw8aaxzX3eS 4-0-0

Scale: 1"=1 3x6 = 4.00 12 0-10-0 1-10-0 1-10-0 2 0-9-0 3x6 || 4 2x4 || 2x4 =

4-0-0

0.00

2-4

>999

except end verticals.

240

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

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

4-0-0

Plate Off	sets (X,Y)	[2:0-0-0,0-0-6], [2:0-1-5,0	0-7-1], [5:0-1-12	2,0-0-0]									
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	0.20	Vert(LL)	-0.00	2-4	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.01	2-4	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	6	n/a	n/a			

Wind(LL)

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

0-3-0

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

3-4: 2x3 SPF No.2

WEDGE Left: 2x3 SPF No.2

10.0

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

Max Horz 2=55(LC 5)

Max Uplift 2=-72(LC 4), 6=-32(LC 8) Max Grav 2=250(LC 1), 6=132(LC 1)

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

Code IRC2018/TPI2014

0-10-8

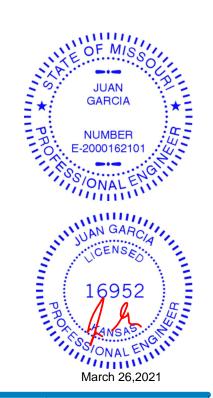
NOTES-

BCDL

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

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) 2, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



FT = 10%

Weight: 12 lb



Job Truss Truss Type Qty Lot 129 H4 145381988 210401 B6 Roof Special Girder Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:18 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-0qoKmMR3dwM7o7VB84zFXbee5n1QBT2s0au86NzX3eR

6-9-12

3-6-0

Scale = 1:16.3

7-6-0

0-8-4

7-6-0

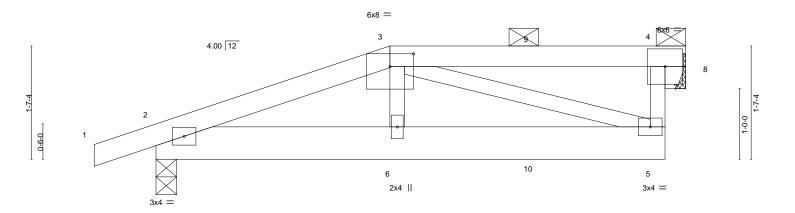


Plate Offsets ((,Y) [3:0-4-0	,0-2-3]	3-3-1					3-	-6-0		0-8-4	1
LOADING (ps	,	SPACING-	2-0-0	CSI.	2.24	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25. TCDL 10.		Plate Grip DOL umber DOL	1.15 1.15	TC BC	0.31 0.13	Vert(LL) Vert(CT)	-0.01 -0.02	6 6	>999 >999	360 240	MT20	197/144
BCLL 0. BCDL 10.		Rep Stress Incr Code IRC2018/TP	NO I2014	WB Matri	0.30 x-P	Horz(CT) Wind(LL)	0.01 0.01	8 6	n/a >999	n/a 240	Weight: 28 lb	FT = 10%

LUMBER-BRACING-

3-3-12

2x4 SPF No.2 TOP CHORD TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except BOT CHORD 2x6 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 3-4. WEBS 2x3 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

2x4 SPF No.2

0-10-8

Max Horz 2=60(LC 4)

Max Uplift 2=-125(LC 4), 8=-76(LC 4) Max Grav 2=402(LC 1), 8=293(LC 1)

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

TOP CHORD 2-3=-508/117

BOT CHORD 2-6=-125/433 5-6=-120/437 **WEBS** 3-5=-376/109, 4-8=-363/94

OTHERS

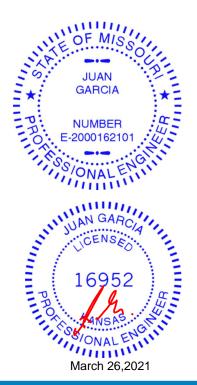
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 8 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.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 123 lb down and 129 lb up at 3-3-12, and 57 lb down and 39 lb up at 5-4-8 on top chord, and 14 lb down and 6 lb up at 3-3-12, and 8 lb down at 5-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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





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 129 H4 145381988 210401 В6 Roof Special Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:18 2021 Page 2

Wheeler Lumber,

Waverly, KS - 66871,

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-0qoKmMR3dwM7o7VB84zFXbee5n1QBT2s0au86NzX3eR

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 6=6(B) 10=-3(B)

Job Truss Truss Type Qty Lot 129 H4 145381989 210401 **B7** Half Hip Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:19 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-U1MiziShOEU_QH4OinVU3pBiDAHCw_8?FEdheqzX3eQ 7-6-0 6-3-12 0-10-8 Scale = 1:17.3 6x6 = 6x6 || 3 4.00 12 3x4 = 1-0-0 0-9-0 5 3x4 = 2x4 = Plate Offsets (X,Y)--[3:0-3-0,0-2-8] SPACING-**PLATES** GRIP LOADING (psf) CSI DEFL. in (loc) I/defI L/d 25.0 TCLL Plate Grip DOL 1.15 TC 0.73 Vert(LL) -0.14 2-5 >620 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.54 Vert(CT) -0.28 2-5 >310 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Matrix-F Wind(LL) 5 >999 240 Weight: 23 lb 0.00 LUMBER-**BRACING-**

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

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=81(LC 4)

Max Uplift 2=-94(LC 4), 7=-67(LC 4) Max Grav 2=404(LC 1), 7=294(LC 1)

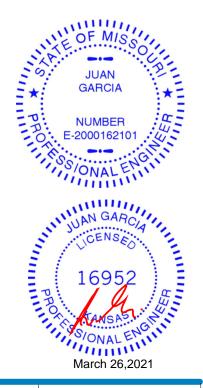
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 5-6=-52/285, 4-6=-52/285

WFBS 4-7=-301/69

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



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

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 129 H4 145381990 2 210401 **B8** Monopitch Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:19 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:pq50?Ycap6WpLXoTu4wfY2za1nE-U1MiziShOEU_QH4OinVU3pBloAKBwvO?FEdheqzX3eQ 7-6-0 7-6-0 0-10-8 Scale = 1:18.2 5x12 M18SHS = 4.00 12 3x4 = 0-0-I 0-9-0 4x5 || Plate Offsets (X,Y)--[2:0-0-0,0-0-10], [3:0-8-8,Edge], [4:Edge,0-3-8] SPACING-DEFL. **PLATES** GRIP LOADING (psf) in (loc) I/defI L/d 25.0 Plate Grip DOL 197/144 TCLL 1.15 TC 0.56 Vert(LL) -0.05 2-4 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.35 Vert(CT) -0.12 2-4 >726 240 M18SHS 197/144 **BCLL** 0.0 Rep Stress Incr YES WB 0.35 Horz(CT) -0.01 6 n/a n/a BCDL Code IRC2018/TPI2014 Wind(LL) 240 FT = 10% 10.0 Matrix-R 0.04 2-4 >999 Weight: 23 lb

LUMBER-

WEBS

OTHERS

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

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

TOP CHORD

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

except end verticals.

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

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

Max Horz 2=91(LC 4)

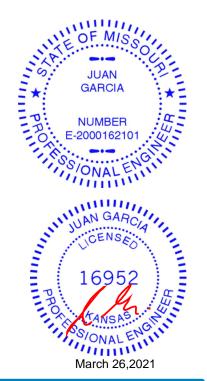
Max Uplift 2=-90(LC 4), 6=-71(LC 8) Max Grav 2=404(LC 1), 6=290(LC 1)

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

TOP CHORD 2-3=-315/23, 3-5=-285/223

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) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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 129 H4 145381991 5 210401 **B9** Monopitch Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:20 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:pq50?Ycap6WpLXoTu4wfY2za1nE-yDw4A2SK9Ycr2RfaGV0jc0jy9aiyfOG9TuNEBGzX3eP 0-10-8 6-6-0 Scale = 1:16.6 4x9 = 3 4.00 12 1-0-0 0-9-0 4x5 | 3x4 = Plate Offsets (X,Y)--[3:Edge,0-1-14], [4:Edge,0-3-8] SPACING-DEFL. **PLATES** GRIP LOADING (psf) CSI. in (loc) I/defI L/d 25.0 Plate Grip DOL 0.40 TCLL 1.15 TC Vert(LL) -0.03 2-4 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.25 Vert(CT) -0.06 2-4 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.25 Horz(CT) -0.00 6 n/a n/a BCDL Code IRC2018/TPI2014 FT = 10% 10.0 Wind(LL) 0.02 2-4 >999 240 Weight: 20 lb Matrix-R

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SPF No.2 REACTIONS. (size) 2=0-3-8, 6=Mechanical

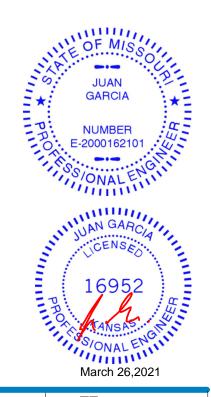
Max Horz 2=78(LC 5)

Max Uplift 2=-85(LC 4), 6=-60(LC 8) Max Grav 2=359(LC 1), 6=245(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-271/20

NOTES-

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



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

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

except end verticals.



Job Truss Truss Type Qty Lot 129 H4 145381992 210401 B10 Roof Special Girder Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:11 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-jUtgHzLgHnT7T2TrE6Lcl7rTHyeb2LuqP_hGMHzX3eY

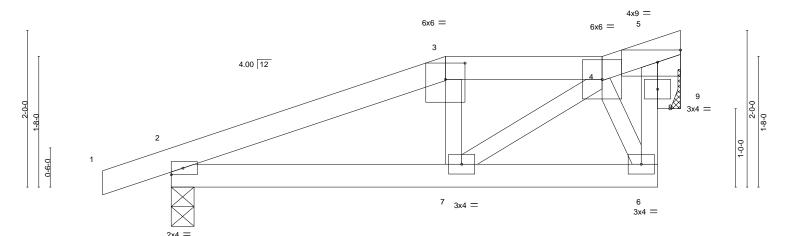
3-6-0

6-6-0

1-0-0

2-0-0

Scale = 1:14.7



				3-6-0			1		5-6-0		6-6-0	1
		I		3-6-0			ı		2-0-0		1-0-0	1
Plate Offs	sets (X,Y)	[3:0-3-0,0-2-8], [5:Edge,0	-1-14]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	-0.01	2-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.01	2-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.07	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	12014	Matri	x-P	Wind(LL)	0.00	7	>999	240	Weight: 21 lb	FT = 10%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD BOT CHORD 2x4 SPF No.2 WEBS 2x3 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, and 2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Max Horz 2=60(LC 5)

0-10-8

Max Uplift 2=-101(LC 4), 9=-62(LC 8) Max Grav 2=357(LC 1), 9=246(LC 1)

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

2-3=-384/62, 3-4=-307/73, 6-8=-62/280, 5-8=-62/280 TOP CHORD

BOT CHORD 2-7=-71/311

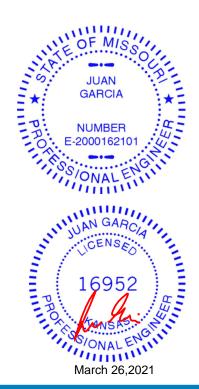
WEBS 4-6=-284/77, 5-9=-265/69

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 9 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.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 78 lb up at 3-6-0 on top chord, and 7 lb down and 5 lb up at 3-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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



Continued on page 2

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses 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 129 H4 145381992 B10 210401 Roof Special Girder

Wheeler Lumber,

Waverly, KS - 66871,

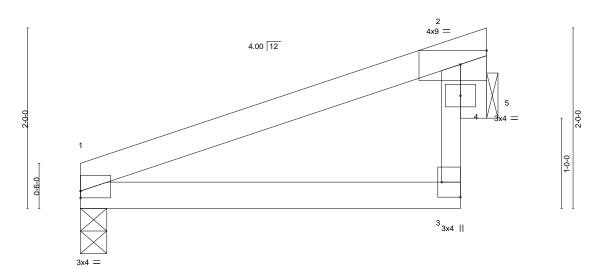
| Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:11 2021 Page 2 ID:yQVeL3JaMLDqBo68G2v5nvznYPw-jUtgHzLgHnT7T2TrE6Lcl7rTHyeb2LuqP_hGMHzX3eY

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 7=5(F) Job Truss Truss Type Qty Lot 129 H4 145381993 210401 B11 Monopitch

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:12 2021 Page 1

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-BhR3VJMI25b_4C21optrHLOe?M_0nn?zeeRpvkzX3eX 4-6-0

Scale = 1:12.8



4-6-0 4-6-0

Plate Of	rsets (X,Y)	[1:0-0-0,0-0-14], [2:Edge,0-	-1-14], [3:Eag	ge,0-2-8j								
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	0.22	Vert(LL)	-0.01	1-3	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.02	1-3	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matri	x-R	Wind(LL)	0.00	1-3	>999	240	Weight: 12 lb	FT = 10%

LUMBER-

OTHERS

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

TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins,

except end verticals.

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

REACTIONS. (size) 1=0-3-8, 5=Mechanical

2x4 SPF No.2

Max Horz 1=58(LC 5)

Max Uplift 1=-26(LC 4), 5=-41(LC 8) Max Grav 1=192(LC 1), 5=164(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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) 1, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

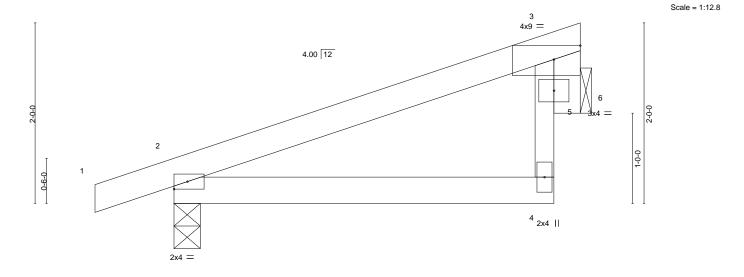




Job Truss Truss Type Qty Lot 129 H4 145381994 210401 B12 Monopitch Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:13 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-ft_RifNxpOjriMdELXO4qYxpwmLbWFR7sIANRAzX3eW

4-6-0 4-6-0



4-6-0

Plate Offsets (X,Y)--[3:Edge,0-1-14] SPACING-DEFL. **PLATES** GRIP LOADING (psf) 2-0-0 CSI. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.20 Vert(LL) -0.01 2-4 >999 360 197/144 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.11 Vert(CT) -0.01 2-4 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 6 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.00 2-4 >999 240 Weight: 13 lb Matrix-R

LUMBER-**BRACING-**

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, 2x4 SPF No.2 **BOT CHORD** except end verticals. WEBS 2x3 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

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

2x4 SPF No.2

Max Horz 2=60(LC 5)

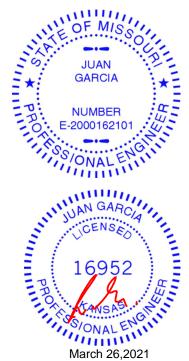
Max Uplift 2=-74(LC 4), 6=-38(LC 8) Max Grav 2=272(LC 1), 6=156(LC 1)

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

0-10-8

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 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) 2, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 129 H4 145381995 2 210401 B13 Monopitch Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:14 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-73Ypw?OZZiriKWCQvEvJMmTwk9fcFeEG5ywwzczX3eV 0-10-8 6-6-0 Scale = 1:16.6 3x12 MT18HS = 4.00 12

1-0-0 0-9-0 3x6 II 3x4 = 6-6-0

Plate Off	sets (X,Y)	[3:0-8-8,Edge], [4:Edge,0-	-2-8]										
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	0.39	Vert(LL)	-0.03	2-4	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.08	2-4	>990	240	MT18HS	197/144	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	-0.01	6	n/a	n/a			
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.02	2-4	>999	240	Weight: 19 lb	FT = 10%	

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

OTHERS 2x4 SPF No.2 REACTIONS. (size) 2=0-3-8, 6=Mechanical

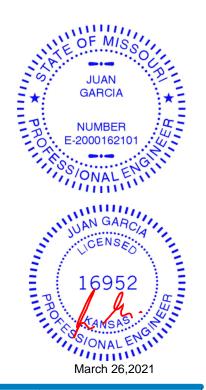
Max Horz 2=78(LC 5) Max Uplift 2=-85(LC 4), 6=-61(LC 8) Max Grav 2=360(LC 1), 6=248(LC 1)

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

TOP CHORD 2-3=-258/20, 3-5=-273/175

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) All plates are MT20 plates unless otherwise indicated.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.



Job Truss Truss Type Qty Lot 129 H4 145381996 210401 B14 Half Hip Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:15 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-bF6B7LOBK?_YxgncTyQYvz08XZ0U_7?QKcfTV2zX3eU

3-6-0

Scale = 1:14.5

6-6-0

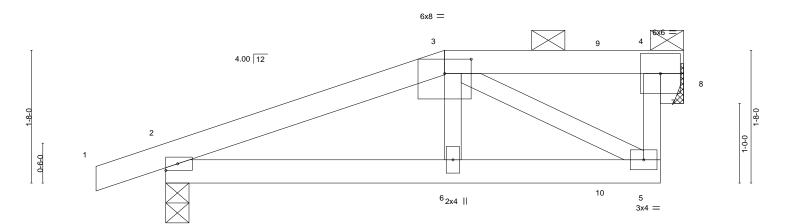


Plate Offs	sets (X,Y)	[3:0-4-0.0-2-3]		3-6-0		+				3-0-0		1
LOADING	G (psf)	SPACING-	2-0-0	CSI.	0.00	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	25.0 10.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.20 0.15	Vert(LL) Vert(CT)	-0.01 -0.01	2-6 2-6	>999 >999	360 240	MT20	197/144
CLL CDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TF	NO 12014	WB Matri	0.25 x-P	Horz(CT) Wind(LL)	0.01 0.01	8 6	n/a >999	n/a 240	Weight: 20 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x4 SPF No.2

REACTIONS. (size) 2=0-3-8, 8=Mechanical Max Horz 2=61(LC 4)

0-10-8

Max Uplift 2=-104(LC 4), 8=-70(LC 4) Max Grav 2=357(LC 1), 8=245(LC 1)

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

TOP CHORD 2-3=-383/76

BOT CHORD 2-6=-89/309. 5-6=-86/314 **WEBS** 3-5=-288/80, 4-8=-291/83

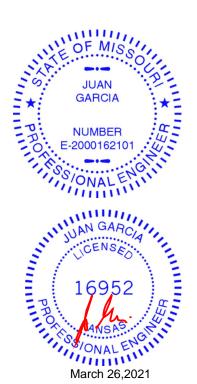
OTHERS

- 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 and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 8 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.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 115 lb up at 3-6-0, and 47 lb down and 35 lb up at 5-6-12 on top chord, and 15 lb down and 5 lb up at 3-6-0, and 8 lb down and 0 lb up at 5-6-12 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

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

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



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

2-0-0 oc purlins (6-0-0 max.): 3-4.

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

Continued on page 2

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

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 129 H4 145381996 B14 210401 Half Hip Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:15 2021 Page 2

Wheeler Lumber,

Waverly, KS - 66871,

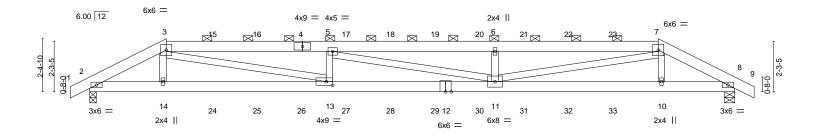
ID:yQVeL3JaMLDqBo68G2v5nvznYPw-bF6B7LOBK?_YxgncTyQYvz08XZ0U_7?QKcfTV2zX3eU

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 6=5(F) 10=0(F)



Job	Truss	Truss Type	Qty	Ply	Lot 129 H4		
		l <u>.</u>					I45381997
210401	C1	Hip Girder	1	2			
				_	Job Reference (optional)		
Wheeler Lumber, Wav	erly, KS - 66871,			8.430 s M	ar 4 2021 MiTek Industries, Inc. Fri M	lar 26 12:16:23 202	21 Page 1
			ID:yQVeL3JaMLDqB	o68G2v5n	vznYPw-MobDp4VCST_QvuO9xdZQE	:fLU8obbsiNbAsbv	nbzX3eM
-0-10-8 3-5-4	4 10-	9-5	18-2-11	1	25-6-12	29-0-0	29-10-8
0-10-8 3-5-	4 7-4	l-1	7-5-5		7-4-1	3-5-4	ტ-10-8

Scale = 1:51.8



		3-5-4 3-5-4	10-9-5 7-4-1		-	18-2-11 7-5-5	-		25-6-12 7-4-1		29-0-0 3-5-4
Plate Offset	s (X,Y)	[13:0-3-8,0-2-0]									
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	0.35	Vert(LL)	-0.24 11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.45 11-13	>764	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.05 8	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	k-S	Wind(LL)	0.23 11-13	>999	240	Weight: 282 lb	FT = 10%

LUMBER-BRACING-

2x6 SPF No.2 TOP CHORD TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins, except **BOT CHORD** 2x6 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 3-7.

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

REACTIONS. (size) 2=0-3-8, 8=0-5-8 Max Horz 2=-37(LC 30)

Max Uplift 2=-362(LC 5), 8=-364(LC 4) Max Grav 2=1694(LC 1), 8=1702(LC 1)

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

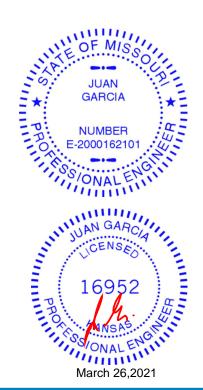
2-3=-3286/751, 3-5=-6097/1509, 5-6=-6074/1503, 6-7=-6074/1503, 7-8=-3241/742 TOP CHORD BOT CHORD 2-14=-655/2850, 13-14=-662/2831, 11-13=-1481/6097, 10-11=-631/2775, 8-10=-623/2795

WFBS 3-14=0/373, 3-13=-859/3379, 5-13=-631/334, 6-11=-634/334, 7-11=-864/3410,

7-10=0/374

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. 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.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mpn, TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=362 8=364
- 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.



Continued on page 2



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

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



Job	Truss	Truss Type	Qty	Ply	Lot 129 H4	
210401	C1	Hip Girder	1	2	Job Reference (optional)	145381997

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:23 2021 Page 2 ID:yQVeL3JaMLDqBo68G2v5nvznYPw-MobDp4VCST_QvuO9xdZQEfLU8obbsiNbAsbvnbzX3eM

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 162 lb down and 138 lb up at 3-5-4, 78 lb down and 65 lb up at 5-6-0, 78 lb down and 65 lb up at 7-6-0, 78 lb down and 65 lb up at 9-6-0, 78 lb down and 65 lb up at 11-6-0, 78 lb down and 65 lb up at 15-6-0, 78 lb down and 65 lb up at 17-6-0, 78 lb down and 65 lb up at 23-6-0, and 78 lb down and 65 lb up at 23-6-0, and 162 lb down and 138 lb up at 25-6-12 on top chord, and 55 lb down at 3-5-4, 23 lb down at 5-6-0, 23 lb down at 9-6-0, 23 lb down at 11-6-0, 24 lb down at 11-6-0, 25 lb down at 11-6-0, 26 lb down at 11-6-0, 27 lb down at 11-6-0, 28 at 13-6-0, 23 lb down at 15-6-0, 23 lb down at 17-6-0, 23 lb down at 19-6-0, 23 lb down at 21-6-0, and 23 lb down at 23-6-0, and 55 lb down at 25-6-0 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)

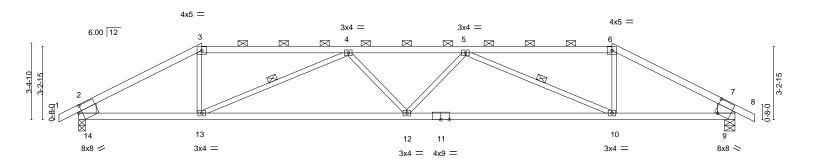
Vert: 1-3=-70, 3-7=-70, 7-9=-70, 2-8=-20

Concentrated Loads (lb)

Vert: 3=-64(F) 4=-30(F) 14=-37(F) 7=-64(F) 10=-37(F) 15=-30(F) 16=-30(F) 17=-30(F) 18=-30(F) 19=-30(F) 20=-30(F) 21=-30(F) 22=-30(F) 23=-30(F) 24=-17(F) 25=-17(F) 26=-17(F) 27=-17(F) 28=-17(F) 29=-17(F) 30=-17(F) 31=-17(F) 32=-17(F) 33=-17(F)

Job Truss Truss Type Qty Ply Lot 129 H4 145381998 210401 C2 Hip Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:24 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-q_9b0QVqDm6HX2zLVL4fmsuXZBycb4lkOWLSK1zX3eL 29-10-8 0-10-8 -0-10-8 0-10-8 11-10-15 23-6-12 29-0-0 5-5-4 5-5-4 6-5-11 5-2-2 6-5-11 5-5-4

Scale = 1:50.9



	<u> </u>	5-5-4 5-5-4		14-6-0 9-0-12		 23-6 9-0-			29-0-0	
Plate Offset	s (X,Y)	[9:0-1-8,0-7-10], [14:0)-1-13,0-3-8]				· <u>-</u>			
TCDL BCLL	(psf) 25.0 10.0 0.0 *	SPACING- Plate Grip DOI Lumber DOL Rep Stress Ind Code IRC201	1.15 r YES	CSI. TC 0.88 BC 0.66 WB 0.73 Matrix-S	Hor	in (loc) -0.26 10-12 -0.56 10-12 0.09 9 0.20 10-12	I/defI >999 >601 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 96 lb	GRIP 197/144 FT = 10%

LUMBER-BRACING-

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

3-6: 2x4 SPF No.2 2x4 SPF 2100F 1.8E 2x3 SPF No.2 *Except* 2-14,7-9: 2x10 SP DSS

BOT CHORD

TOP CHORD

Structural wood sheathing directly applied or 3-3-12 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 3-6. Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt **WEBS** 4-13, 5-10

REACTIONS. (size) 14=0-3-8, 9=0-5-8

Max Horz 14=61(LC 7)

Max Uplift 14=-158(LC 5), 9=-158(LC 4) Max Grav 14=1359(LC 1), 9=1359(LC 1)

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

TOP CHORD 2-3=-2065/282, 3-4=-1719/267, 4-5=-3073/461, 5-6=-1719/267, 6-7=-2065/282,

2-14=-1237/167, 7-9=-1237/167

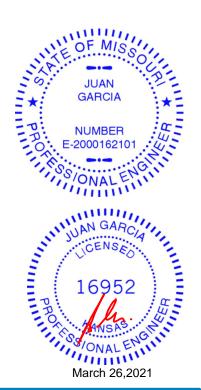
13-14=-231/1737, 12-13=-483/2974, 10-12=-470/2974, 9-10=-183/1737 **BOT CHORD**

WEBS 3-13=-23/635, 4-13=-1437/321, 4-12=0/274, 5-12=0/274, 5-10=-1437/321, 6-10=-23/635

BOT CHORD

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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) except (jt=lb) 14=158, 9=158.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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

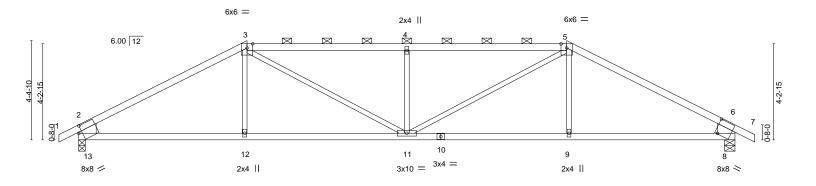
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 129 H4 145381999 210401 C3 Hip Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:25 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-JBjzEIWS_4E88CYX22buJ4QhobGFKdFudA4?sTzX3eK 29-0-0 29-10-8 0-10-8 -0-10-8 0-10-8 21-6-12 7-0-12 7-0-12 7-5-4

Scale = 1:50.9



	-	7-5-4		-6-0	1		6-12			29-0-0	
Plate Offsets	s (X Y)	7-5-4 [8:0-1-8,0-7-10], [13:0-1-13,0-)-12		7-0)-12			7-5-4	<u> </u>
1 1010 0110011	3 (74, 1)	[0.0 1 0,0 1 10], [10.0 1 10,0									
LOADING (psf)	SPACING- 2-0)-0 CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
	25.0	Plate Grip DOL 1.	15 TC	0.92	Vert(LL)	-0.21	9-11	>999	360	MT20	197/144
	10.0		15 BC	0.82	Vert(CT)		9-11	>819	240		
BCLL	0.0 *		ES WB	0.33	Horz(CT)	0.08	8	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TPI201	4 Matri	x-S	Wind(LL)	0.16	9-11	>999	240	Weight: 96 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x3 SPF No.2 *Except*

2-13,6-8: 2x10 SP DSS

REACTIONS. (size) 13=0-3-8, 8=0-5-8

Max Horz 13=-74(LC 6)

Max Uplift 13=-122(LC 8), 8=-122(LC 9) Max Grav 13=1359(LC 1), 8=1359(LC 1)

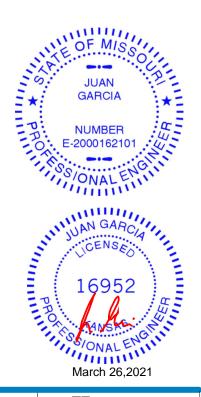
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-3=-2022/233, 3-4=-2379/346, 4-5=-2379/346, 5-6=-2022/233, 2-13=-1255/170, TOP CHORD 6-8=-1255/170

BOT CHORD 12-13=-184/1679, 11-12=-186/1677, 9-11=-125/1677, 8-9=-123/1679 3-12=0/255, 3-11=-201/915, 4-11=-635/245, 5-11=-201/915, 5-9=0/255 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=122, 8=122.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-5-13 max.): 3-5.

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	Ply	Lot 129 H4	1
					145382000	
210401	C4	Hip	1	1		
					Job Reference (optional)	
Wheeler Lumber, Wave	erly, KS - 66871,			8.430 s M	lar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:26 2021 Page 1	
		ID:yQVeL	3JaMLDqE	668G2v5r	nvznYPw-nNHLR5X4IOM?mM6kcl77sHzrK?eX36h1sqqZOwzX3eJ	

5-0-12

19-6-12

5-9-10

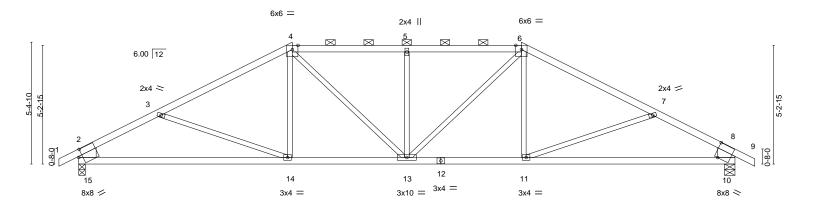
Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-1-5 max.): 4-6.

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

5-0-12

29-10-8 0-10-8 Scale = 1:50.9



-	9-5-4 9-5-4	5-0-12	19-6-12 5-0-12		9-5-4	
Plate Offsets (X,Y)	[10:0-1-12,0-7-14], [15:0-2-1,0-	3-12]				
LOADING (psf)	SPACING- 2-0-	o CSI.	DEFL. in (loc) l	/defl L/d	PLATES GRI	Р
TCLL 25.0	Plate Grip DOL 1.1	5 TC 0.99	Vert(LL) -0.17 10-11 >	999 360	MT20 197	144
TCDL 10.0	Lumber DOL 1.1	5 BC 0.69	Vert(CT) -0.35 10-11 >	968 240		
BCLL 0.0 *	Rep Stress Incr YE	S WB 0.25	Horz(CT) 0.07 10	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.09 13-14 >	999 240	Weight: 107 lb F7	T = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

5-9-9

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

4-6: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-15,8-10: 2x10 SP DSS

-0-10-8 0-10-8

REACTIONS. (size) 15=0-3-8, 10=0-5-8

Max Horz 15=-87(LC 6)

Max Uplift 15=-144(LC 8), 10=-144(LC 9) Max Grav 15=1359(LC 1), 10=1359(LC 1)

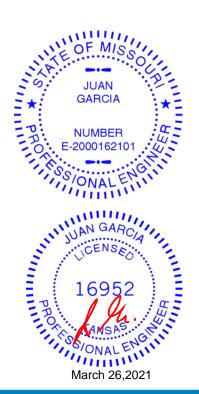
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1961/238, 3-4=-1831/162, 4-5=-1834/213, 5-6=-1834/213, 6-7=-1831/163,

7-8=-1961/238, 2-15=-1256/191, 8-10=-1256/191

14-15=-223/1609, 13-14=-110/1586, 11-13=-58/1586, 10-11=-153/1609 **BOT CHORD** WEBS 4-14=0/293, 4-13=-134/456, 5-13=-414/169, 6-13=-134/456, 6-11=0/293

- 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) except (jt=lb) 15=144, 10=144.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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 129 H4 145382001 210401 C5 Hip Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:27 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-FZrkeRYjWhUsOWhwATeMOVW47P?loXOB4UZ6wMzX3el

17-6-12

6-1-8

Scale = 1:50.9

29-10-8 0-10-8

29-0-0

5-9-0

29-0-0

Structural wood sheathing directly applied or 3-5-6 oc purlins,

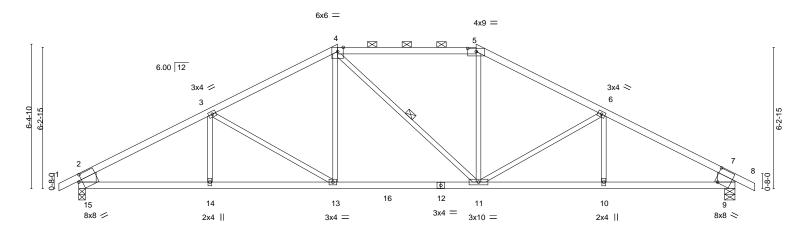
except end verticals, and 2-0-0 oc purlins (3-10-7 max.): 4-5.

4-11

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

1 Row at midpt

5-7-11



		5-9-9	5-7-	-11	1	6-1-8	ı	5-7-	11	5-9-9	1
Plate Offs	ets (X,Y)	[5:0-4-8,0-1-11], [9:0-1	-8,0-7-10], [15:0	-1-13,0-3-8]							
LOADING	(nof)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
	· /				0.70		(/				
TCLL	25.0	Plate Grip DOL	1.15		0.73	Vert(LL)	-0.17 13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.30 13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.06 9	n/a	n/a		
BCDL	10.0	Code IRC2018/	TPI2014	Matrix-	S	Wind(LL)	0.09 13-14	>999	240	Weight: 106 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

17-6-12

LUMBER-

-0-10-8 0-10-8

5-9-9

5-7-11

11-5-4

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

4-5: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except* 2-15,7-9: 2x10 SP DSS

REACTIONS. (size) 15=0-3-8, 9=0-5-8

Max Horz 15=-99(LC 6)

Max Uplift 15=-163(LC 8), 9=-163(LC 9) Max Grav 15=1398(LC 2), 9=1393(LC 2)

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

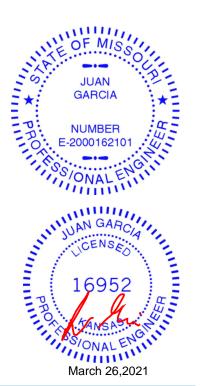
TOP CHORD 2-3=-2079/209, 3-4=-1756/177, 4-5=-1520/197, 5-6=-1745/177, 6-7=-2070/210,

2-15=-1228/191, 7-9=-1228/191

BOT CHORD 14-15=-195/1747, 13-14=-195/1747, 11-13=-48/1530, 10-11=-107/1740, 9-10=-107/1740

WEBS 3-13=-284/170, 4-13=-15/412, 5-11=0/387, 6-11=-285/171

- 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) except (jt=lb) 15=163, 9=163.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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

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 129 H4 145382002 210401 D1 Roof Special Girder Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:29 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

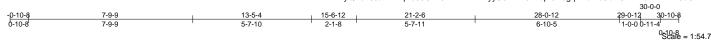
6x6 =

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-ByyU37Zz1JkZdprJHugqTwbMcCbVGIZTYo2D?FzX3eG

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

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

except end verticals, and 2-0-0 oc purlins (3-4-15 max.): 4-5, 7-8.



4x5 = 4 6.00 12 3x4 / 3x4 < 6 3 7-2-15 6x6 = 4x9 =1-1-10 14 18 16 15 13 12 11 3x4 =8x8 / 2x4 || 3x10 = 3x4 =4x9 =

	1	7-9-9	1	13-5-	+	15-6-12	21-2-6			28-0-12	30-0-0 ₁
	1	7-9-9	ı	5-7-1)	2-1-8	5-7-11			6-10-5	1-11-4
Plate Offset	ts (X,Y)	[8:0-4-0,0-2-8], [9:0-0-0,0-0	-7], [11:0-2	-8,0-2-0], [17:	0-1-13,0-3-8]					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.17 15-16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.31 15-16	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.09 9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matrix	(-S	Wind(LL)	0.09 11-12	>999	240	Weight: 119 lb	FT = 10%
						1				_	

BOT CHORD

3x4

LUMBER-BRACING-TOP CHORD

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

4-5,7-8: 2x4 SPF No.2, 8-10: 2x6 SPF No.2

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

2-17: 2x10 SP DSS

REACTIONS. (size) 17=0-3-8, 9=0-3-8

Max Horz 17=-121(LC 13)

Max Uplift 17=-182(LC 8), 9=-188(LC 9) Max Grav 17=1415(LC 1), 9=1396(LC 1)

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

TOP CHORD 2-3=-2101/234, 3-4=-1639/216, 4-5=-1396/234, 5-6=-1668/224, 6-7=-2291/269,

7-8=-2783/353, 8-9=-1793/183, 2-17=-1305/227

BOT CHORD 16-17=-217/1740, 15-16=-217/1740, 13-15=-56/1387, 12-13=-121/1988, 11-12=-286/2648,

9-11=-104/1264

WEBS 3-15=-487/201, 4-15=-79/386, 5-13=-56/476, 6-13=-740/226, 6-12=0/342,

7-12=-666/166, 7-11=-1059/246, 8-11=-270/1862

NOTES-1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 17=182, 9=188.
- 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) 69 lb down and 12 lb up at 29-0-12 on top chord, and 3 lb down and 1 lb up at 29-0-12 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

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

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

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





3x6 =

Job Truss Truss Type Qty Ply Lot 129 H4 145382002 D1 210401 Roof Special Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:29 2021 Page 2

Wheeler Lumber,

Waverly, KS - 66871,

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-ByyU37Zz1JkZdprJHugqTwbMcCbVGIZTYo2D?FzX3eG

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-7=-70, 7-8=-70, 8-10=-70, 9-17=-20

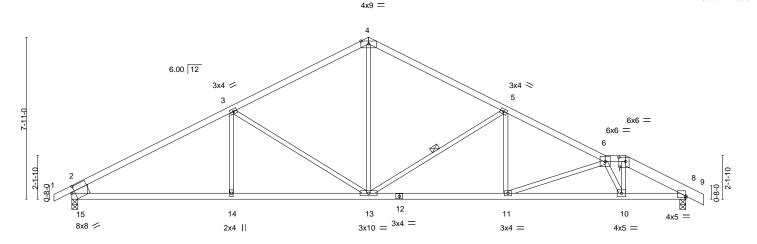
Concentrated Loads (lb) Vert: 18=1(F)

Job Truss Truss Type Qty Lot 129 H4 145382003 210401 D2 Roof Special Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:36 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-Ult7XWfMOSdazutfCsITGOOaq1?CPSyV9NF5lLzX3e9 27-0-12 1-0-0 30-10-8 0-10-8 21-2-7 26-0-12 30-0-0 0-10-8 7-9-0 6-8-7 6-8-8 4-10-5 2-11-4

Scale = 1:56.3



7-9-9		14-6-0	21-2-7	26-0-12	27-0-12 30-0-0
	7-9-9	6-8-7	6-8-8	4-10-5	1-0-0 2-11-4
Plate Offsets (X,Y)	[7:0-4-0,0-2-8], [8:0-0-0,0-0-15], [15	0-1-13,0-3-8]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.86 BC 0.86 WB 0.91 Matrix-S	DEFL. in (loc) l/def Vert(LL) -0.18 13-14 >998 Vert(CT) -0.35 13-14 >998 Horz(CT) 0.09 8 n/r Wind(LL) 0.11 13-14 >998	9 360 9 240 a n/a	PLATES GRIP MT20 197/144 Weight: 111 lb FT = 10%

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

1-4: 2x4 SPF 2100F 1.8E, 7-9: 2x6 SPF No.2

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

2-15: 2x10 SP DSS

TOP CHORD

BRACING-

Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-0 max.): 6-7.

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

BOT CHORD WEBS 1 Row at midpt 5-13

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

Max Horz 15=-131(LC 9)

Max Uplift 15=-189(LC 8), 8=-194(LC 9) Max Grav 15=1415(LC 1), 8=1397(LC 1)

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

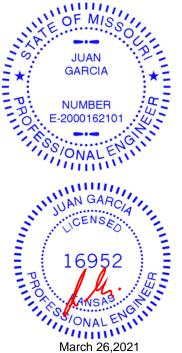
TOP CHORD $2\hbox{-}3\hbox{-}-2111/252, \, 3\hbox{-}4\hbox{-}-1569/244, \, 4\hbox{-}5\hbox{-}-1576/233, \, 5\hbox{-}6\hbox{-}-2235/291, \, 6\hbox{-}7\hbox{-}-1922/257, \, 3\hbox{-}7\hbox{-}-1922/257, \, 3\hbox{-}7\hbox{-}-1922/257,$

7-8=-2266/266, 2-15=-1305/233

14-15=-243/1752, 13-14=-243/1752, 11-13=-130/1966, 10-11=-244/2355, 8-10=-172/1861 **BOT CHORD** WEBS 3-14=0/258, 3-13=-584/227, 4-13=-68/852, 5-13=-787/243, 5-11=0/355, 6-11=-416/122,

6-10=-996/152, 7-10=-80/973

- 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) 15=189, 8=194.
- 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.



March 26,2021



Job Truss Truss Type Qty Lot 129 H4 145382004 210401 D3 Roof Special Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:37 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

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

except end verticals, and 2-0-0 oc purlins (4-1-5 max.): 6-7.

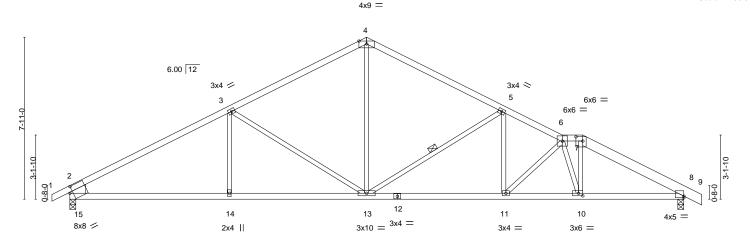
5-13

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

1 Row at midpt

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-yURVlsf_9mlRa2SrlZpiocwlaRLR8vDfO1_eHnzX3e8 24-0-12 25-0-12 1-0-0 30-10-8 0-10-8 21-2-7 30-0-0 0-10-8 7-9-0 6-8-7 6-8-7 2-10-5 4-11-4

Scale = 1:56.3



		7-9-9		14-6)- U	19-3	-b _I	25	-0-12	30-0-0	
		7-9-9		6-8	-7	4-9-	·6	5	5-9-6	4-11-4	1
Plate Offse	ets (X,Y)	[7:0-4-0,0-2-8], [8:0-0-0,0-0	0-15], [10:0-2	2-8,0-1-8], [15	0-1-13,0-3-8						
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	0.86	Vert(LL)	-0.18 13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.34 13-14	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.09 8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matrix	-S	Wind(LL)	0.10 13-14	>999	240	Weight: 113 lb	FT = 10%
						. ,					

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-TOP CHORD

2x4 SPF No.2 *Except*

1-4: 2x4 SPF 2100F 1.8E, 7-9: 2x6 SPF No.2 2x4 SPF No.2

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

2-15: 2x10 SP DSS

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

Max Horz 15=-131(LC 9)

Max Uplift 15=-189(LC 8), 8=-194(LC 9) Max Grav 15=1415(LC 1), 8=1397(LC 1)

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

TOP CHORD 2-3=-2111/252, 3-4=-1570/244, 4-5=-1576/233, 5-6=-2184/295, 6-7=-1957/288,

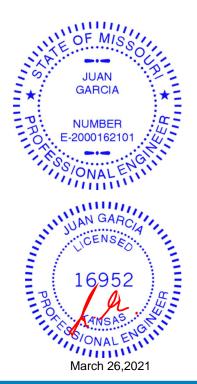
7-8=-2287/278, 2-15=-1305/233

BOT CHORD 14-15=-244/1751, 13-14=-244/1751, 11-13=-129/1955, 10-11=-173/2141, 8-10=-165/1922 WEBS

3-14=0/256, 3-13=-583/227, 4-13=-66/849, 5-13=-775/243, 5-11=0/346, 6-11=-262/62,

6-10=-642/57, 7-10=-7/697

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=189, 8=194.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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

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 129 H4 145382005 210401 D4 Roof Special Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:38 2021 Page 1

6-8-7

Wheeler Lumber, Waverly, KS - 66871,

7-9-0

0-10-8

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

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

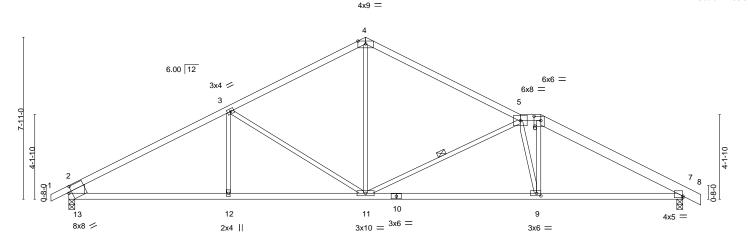
5-11

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

1 Row at midpt

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-Qh?uyCgcw4tlCC11JHKxLpTwMrhjtNfochkBpDzX3e7 23-0-12 30-10-8 0-10-8 22-0-12 30-0-0 7-6-12 6-11-4

Scale = 1:56.3



L	7-9-9	14-6-0	22-0-12	23-0-12	30-0-0
	7-9-9	6-8-7	7-6-12	1-0-0	6-11-4
Plate Offsets (X,Y)	[6:0-4-0,0-2-8], [7:0-0-0,0-0-15], [9:0	-2-8,0-1-8], [13:0-1-13,0-3-8]			
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.86 BC 0.86 WB 0.89 Matrix-S	DEFL. in (loc) Vert(LL) -0.18 11-12 Vert(CT) -0.33 9-11 Horz(CT) 0.09 7 Wind(LL) 0.10 11-12	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES GRIP MT20 197/144 Weight: 111 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

5-6: 2x4 SPF No.2, 6-8: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

2-13: 2x10 SP DSS

REACTIONS. (size) 13=0-3-8, 7=0-3-8

Max Horz 13=-131(LC 9)

Max Uplift 13=-189(LC 8), 7=-194(LC 9) Max Grav 13=1415(LC 1), 7=1397(LC 1)

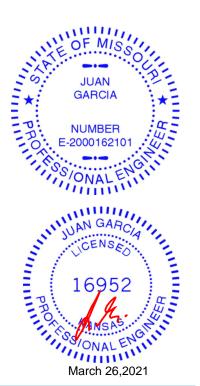
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-2108/252, 3-4=-1576/243, 4-5=-1590/228, 5-6=-1900/281, 6-7=-2237/252,

2-13=-1305/234

BOT CHORD 12-13=-244/1748, 11-12=-244/1748, 9-11=-149/2023, 7-9=-120/1878 WEBS 3-11=-575/228, 4-11=-52/802, 5-11=-801/251, 5-9=-552/125, 6-9=-26/706

- 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) except (jt=lb) 13=189, 7=194.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





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

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 129 H4 145382006 210401 D5 Roof Special Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:39 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

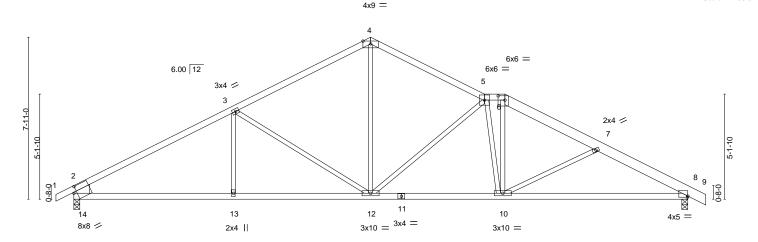
Structural wood sheathing directly applied or 2-2-0 oc purlins,

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

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

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-utZGAYhEhN?9qMcEt_sAt1051E1vcpbyrLTIMfzX3e6 20-0-12 21-0-12 30-10-8 0-10-8 25-6-1 30-0-0 0-10-8 7-9-0 6-8-7 5-6-12 4-5-5 4-5-15

Scale = 1:56.3



		7-9-9	14-6-0	1 20-0-12	2 21-0-12		30-0-0	
	ı	7-9-9	6-8-7	5-6-12	1-0-0		8-11-4	
Plate Offsets (X	,Y)	[6:0-4-0,0-2-8], [8:0-0-4,0-0-11], [1-1]	:0-1-13,0-3-8]					
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 0.87	Vert(LL) -0.	.18 8-10 >999	360	MT20	197/144
TCDL 10.0		Lumber DOL 1.15	BC 0.86	Vert(CT) -0.	.39 8-10 >903	240		
BCLL 0.0	*	Rep Stress Incr YES	WB 0.91	Horz(CT) 0.	.09 8 n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.	.10 12-13 >999	240	Weight: 117 lb	FT = 10%
				,			1	

BOT CHORD

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD 1-4: 2x4 SPF 2100F 1.8E, 6-9: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-14: 2x10 SP DSS

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

Max Horz 14=-131(LC 9) Max Uplift 14=-189(LC 8), 8=-194(LC 9) Max Grav 14=1415(LC 1), 8=1397(LC 1)

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

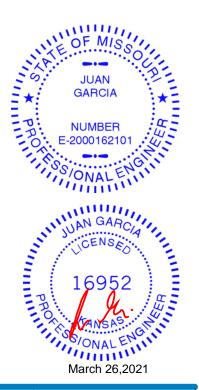
TOP CHORD $2\text{-}3\text{--}2113/251,\ 3\text{-}4\text{--}1566/246,\ 4\text{-}5\text{--}1539/236,\ 5\text{-}6\text{--}1752/263,\ 6\text{-}7\text{--}2021/256,}$

7-8=-2272/335, 2-14=-1306/233

BOT CHORD 13-14=-243/1753, 12-13=-243/1753, 10-12=-75/1807, 8-10=-224/1922 WEBS 3-13=0/267, 3-12=-587/225, 4-12=-79/857, 5-12=-678/200, 5-10=-331/106,

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=189, 8=194.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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

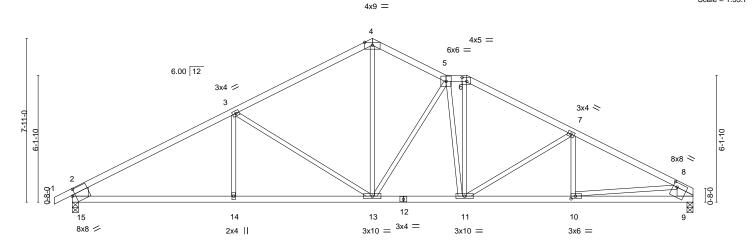


Job Truss Truss Type Qty Ply Lot 129 H4 145382007 210401 D6 Roof Special Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:40 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-M37eNuisSh7?RVBQRiNPQEYGueNEKGs54?Dlu6zX3e5 18-0-12 1₉-0-12 24-2-8 30-0-0 -0-10-8 0-10-8 7-9-9 6-8-7 3-6-12 1-0-0 5-1-11 5-9-8

Scale = 1:55.7



	7-9-9	14-6-0	19-0-12	24-2-8	30-0-0	
	7-9-9	6-8-7	4-6-12	5-1-11	5-9-8	
Plate Offsets (X,Y)	[6:0-2-12,0-2-4], [8:0-2-4,0-2-8], [10:0-	2-8,0-1-8], [15:0-1-13,0-3-8]				
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.86 BC 0.86 WB 0.91 Matrix-S	DEFL. in (loc Vert(LL) -0.18 13-1 Vert(CT) -0.34 13-1 Horz(CT) 0.07 Wind(LL) 0.10 13-1	4 >999 360 4 >999 240 9 n/a n/a	PLATES GRIP MT20 197/144 Weight: 118 lb FT = 10	%

BOT CHORD

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD 1-4: 2x4 SPF 2100F 1.8E

2x4 SPF No.2

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

2-15,8-9: 2x10 SP DSS

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

Max Horz 15=128(LC 8)

Max Uplift 15=-189(LC 8), 9=-168(LC 9) Max Grav 15=1405(LC 1), 9=1313(LC 1)

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

TOP CHORD $2-3=-2095/250,\ 3-4=-1545/242,\ 4-5=-1461/238,\ 5-6=-1540/264,\ 6-7=-1801/256,$

7-8=-2135/273, 2-15=-1297/232, 8-9=-1250/196

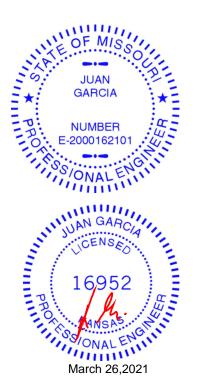
BOT CHORD 14-15=-247/1738, 13-14=-247/1738, 11-13=-70/1568, 10-11=-188/1837, 9-10=-74/369

WEBS 3-14=0/268, 3-13=-587/225, 4-13=-111/882, 5-13=-569/185, 6-11=-31/462,

7-11=-394/156, 8-10=-114/1475

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=189, 9=168.
- 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 3-1-0 oc purlins,

except end verticals, and 2-0-0 oc purlins (4-7-3 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 Ply Lot 129 H4 145382008 210401 D7 Roof Special Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:41 2021 Page 1

Waverly, KS - 66871, Wheeler Lumber,

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

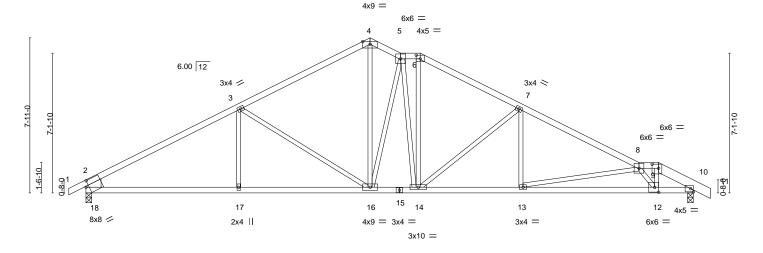
except end verticals, and 2-0-0 oc purlins (4-3-4 max.): 5-6, 8-9.

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

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-rGh0aEjVD?Fs3fmc_PuezS5Qc2gp3kTEIfysQYzX3e4 17-0-12

16-0-12 29-2-12 31-0-0 31-10-8 1-0-0 1-9-4 0-10-8 14-6-0 0-10-8 7-9-9

Scale = 1:58.8



	7-9-9 7-9-9	14-6-0 6-8-7	17-0-12 2-6-12	22-2-7 5-1-11		-2-12 29-2-12 3 -0-5 1-0-0	
Plate Offsets (X,Y)	[6:0-2-8,0-2-4], [9:0-4-0,0-2-8], [12:0-	2-8,0-3-0], [18:0-1-13,0-3-8]					
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2018/TPI2014	CSI. TC 0.92 BC 0.96 WB 0.89 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) I/defl -0.19 16-17 >999 -0.37 16-17 >997 0.10 10 n/a 0.11 16-17 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 128 lb	GRIP 197/144 FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD

1-4: 2x4 SPF 2400F 2.0E, 9-11: 2x6 SPF No.2

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

2-18: 2x10 SP DSS

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

Max Horz 18=-131(LC 9)

Max Uplift 18=-193(LC 8), 10=-211(LC 9) Max Grav 18=1460(LC 1), 10=1440(LC 1)

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

TOP CHORD 2-3=-2199/258, 3-4=-1660/258, 4-5=-1502/254, 5-6=-1518/273, 6-7=-1785/269,

7-8=-2380/309, 8-9=-1821/221, 9-10=-2183/237, 2-18=-1351/236

17-18=-249/1827, 16-17=-249/1827, 14-16=-63/1507, 13-14=-149/2058, 12-13=-326/2614, **BOT CHORD**

10-12=-155/1718

WFBS 3-17=0/268, 3-16=-572/223, 4-16=-142/919, 5-16=-582/183, 6-14=-35/404, 7-14=-705/208, 7-13=0/350, 8-13=-568/181, 8-12=-1364/282, 9-12=-140/1185

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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=193, 10=211.
- 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) 53 lb down and 56 lb up at 29-2-12 on top chord, and 4 lb down and 3 lb up at 29-2-12 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

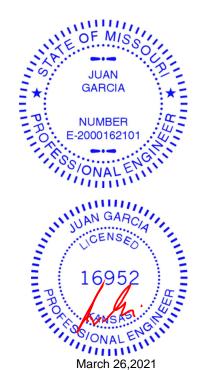
Continued on page 2

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

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

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





March 26,2021

Truss Type Job Truss Qty Ply Lot 129 H4 145382008 D7 210401 Roof Special Girder 1 Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:42 2021 Page 2

Wheeler Lumber,

Waverly, KS - 66871,

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-JSFOoZj7zINjhpLoY7PtVfdbMS02oBjOXJiPy_zX3e3

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-6=-70, 6-8=-70, 8-9=-70, 9-11=-70, 10-18=-20

Concentrated Loads (lb) Vert: 12=2(F)



Job Truss Truss Type Qty Lot 129 H4 145382009 210401 D8 Roof Special 1 Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:43 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-neon?vklkcValzw?6qw62tAp1sRkXfgXmzRyVRzX3e2 27-2-12 28-8-8 1-0-0 1-5-12 17-6-12 18-6-12 2-0-0 1-0-0 26-2-12 4-0-5

Structural wood sheathing directly applied or 2-11-9 oc purlins,

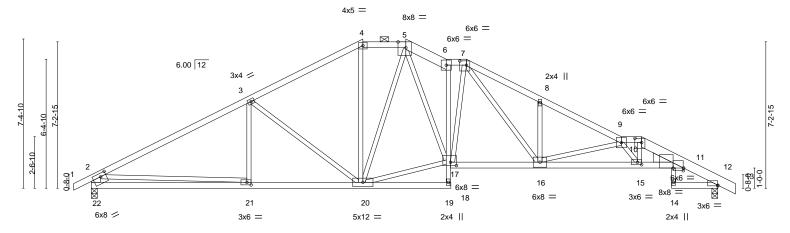
Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 12-14.

10-0-0 oc bracing: 17-19

except end verticals, and 2-0-0 oc purlins (2-9-8 max.): 4-5, 6-7,

Scale = 1:57.0



	7-9-10	5-7-11	2-1-0 2-2-12	4-4-15 4-0-	5 1-0-0 1-5-12 2-3-6
Plate Offsets (X,Y)	[5:0-4-10,Edge], [7:0-4-0,0-2-8], [10:0-4	4-0,0-2-8], [11:0-0-4,0-1-1	0], [11:0-6-4,0-0-0], [1	2:0-0-0,0-0-7], [15:0-2-8,0-1-8], [17:0-3-8,0-2-0], [21:0-2-8,0-1-8],
	[22:0-3-4,0-2-0]				
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 0.74	Vert(LL) -0	0.26 16 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0	0.47 16-17 >787 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.78	Horz(CT) 0).28 12 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0).17 16 >999 240	Weight: 145 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

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

5-6: 2x6 SPF No.2, 10-13: 2x6 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

6-19: 2x3 SPF No.2, 11-17: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

2-22: 2x6 SP DSS

WEDGE

Right: 2x6 SP No.2

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

Max Horz 22=-121(LC 13)

Max Uplift 22=-181(LC 8), 12=-192(LC 9) Max Grav 22=1457(LC 1), 12=1462(LC 1)

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

TOP CHORD 2-3=-2268/239, 3-4=-1755/225, 4-5=-1492/224, 5-6=-2228/309, 6-7=-2012/258, 7-8=-3039/428, 8-9=-3010/331, 9-10=-3761/416, 10-11=-3824/404, 11-12=-806/128,

2-22=-1380/225 21-22=-342/886, 20-21=-220/1916, 6-17=-846/139, 16-17=-48/1994, 15-16=-401/4248,

11-15=-314/3687

WFBS 3-20=-567/201, 4-20=-57/499, 5-20=-554/88, 17-20=-45/1582, 5-17=-172/1219.

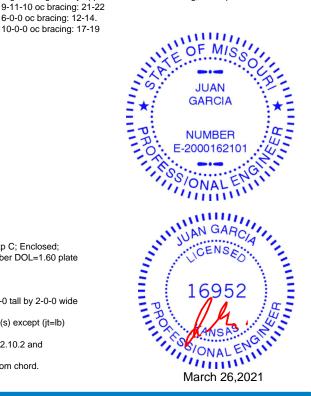
7-17=-31/258, 9-16=-1663/261, 9-15=-855/142, 10-15=-65/734, 2-21=0/1032,

8-16=-318/172, 7-16=-228/1145

NOTES-

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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) 22=181, 12=192.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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

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



Job Truss Truss Type Qty Lot 129 H4 145382010 210401 D9 Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS 66871

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

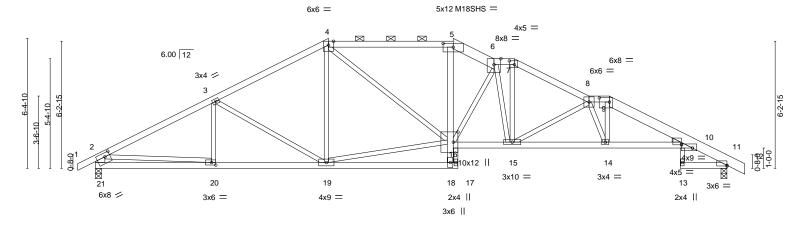
end verticals, and 2-0-0 oc purlins (2-10-8 max.): 4-5, 6-7, 8-9.

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

6-0-0 oc bracing: 11-13.

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Mar 26 14:43:11 2021 Page 1 ID:yQVeL3JaMLDqBo68G2v5nvznYPw-VvCJ6q0S6BK1zVMgOg_rDa8c_LmuaGc2ZCE_w3zX1Uk 19-6-12 20-6-12 2-0-0 1-0-0 24-2-12 28-8-8 31-0-0 5-9-9 5-7-11 2-3-8

Scale = 1:56.6



⊢-	5-9-9 5-9-9	11-5-4 5-7-1		17-9-8 6-4-4	19-6- 1-9-	12 20-6-1 4 1-0-0			28-8-8 3-5-12	31-0-0
Plate Offsets (X,Y)	[5:0-6-0,0-2-3], [7:0-3-0,	0-2-4], [9:0-6-0,0)-2-8], [10:0-6-	8,0-2-6], [10:0-6-8,0-1-1	4], [11:0-0-0	,0-0-7],	[16:0-6-0,0	-2-12], [20:0-2-	-8,0-1-8], [21:0-3-0,	0-2-4]
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.15 1.15 YES PI2014	BC 0	DEFL 0.75 Vert(I 0.67 Vert(C 0.50 Horz(0.50 Windo	L) -0.23 CT) -0.41 CT) 0.29	(loc) 15 15 11 15	I/defl >999 >889 n/a >999	L/d 360 240 n/a 240	PLATES MT20 M18SHS Weight: 141 lb	GRIP 197/144 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

5-6: 2x6 SPF No.2, 9-12: 2x6 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except* 10-16: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

2-21: 2x6 SPF No.2

WEDGE

Right: 2x3 SPF No.2

REACTIONS. (lb/size) 21=1458/0-3-8, 11=1462/0-3-8

Max Horz 21=-103(LC 9)

Max Uplift 21=-163(LC 8), 11=-177(LC 9)

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

2-3=-2302/220, 3-4=-1936/184, 4-5=-2092/226, 5-6=-2271/225, 6-7=-2333/257, TOP CHORD

7-8=-2620/254, 8-9=-3029/319, 9-10=-3221/302, 10-11=-806/119, 2-21=-1393/194 20-21=-191/570, 19-20=-213/1975, 16-18=0/422, 5-16=-12/491, 15-16=-35/2367,

BOT CHORD 14-15=-201/3175 10-14=-181/2989

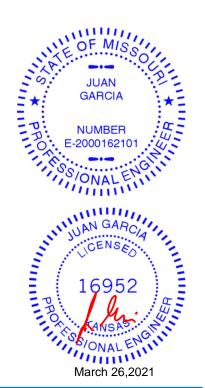
WFBS 3-19=-396/177. 16-19=-89/1454. 4-16=-80/649. 6-16=-598/135. 6-15=-251/67.

7-15=-10/771, 8-15=-1006/184, 8-14=-437/67, 9-14=-1/530, 2-20=-22/1410,

16-17=-270/0

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 21 and 177 lb uplift at
- 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 chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Lot 129 H4 145382011 210401 D10 Roof Special Job Reference (optional)

13-7-6

4-2-2

Wheeler Lumber, Waverly, KS 66871 -0-10-8 0-10-8

4-9-12

4-9-12

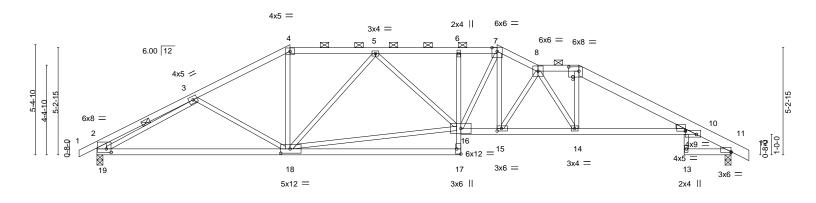
9-5-4

4-7-9

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Mar 26 14:43:17 2021 Page 1 ID:yQVeL3JaMLDqBo68G2v5nvznYPw-K3ZaNu4Dh14AhQqqkw4FSrOd3mnE_uwxx8hl8jzX1Ue

17-9-8 19-6-12 21-6-12 23-6-12 28-8-8 31-0-0 31-10-8 4-2-2 1-9-4 2-0-0 2-0-0 5-1-12 2-3-8 d-10-8

Scale = 1:56.3



		9-5-4		1	17-9-		19-6-12		23-6-12	28-8-8	31-0-0
	'	9-5-4		1	8-4-4		1-9-4	2-0-0	2-0-0	5-1-12	2-3-8
Plate Offse	ets (X,Y)	[2:0-2-12,0-2-0], [9:0-6-0,0	0-2-8], [10:0-6-8	8,0-2-6], [10	:0-6-8,0-1-14	l], [11:0-0-0,0-0-7]	, [15:0-2-8	,0-1-8], [1	7:Edge,0-2-	8], [18:0-5-8,0-2-8]	
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/de	efl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.27 10	-14 >99	9 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.51 10	-14 >72	22 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.37	11 n	/a n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matrix	k-S	Wind(LL)	0.18 10)-14 >99	9 240	Weight: 136 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

9-12: 2x6 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

6-17: 2x3 SPF No.2, 10-16: 2x4 SPF 2100F 1.8E

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

2-19: 2x6 SPF No.2

WEDGE

Right: 2x3 SPF No.2

REACTIONS. (lb/size) 11=1461/0-3-8, 19=1456/0-3-8

Max Horz 19=-86(LC 13)

Max Uplift 11=-159(LC 9), 19=-143(LC 8)

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

2-3=-715/81, 3-4=-2083/194, 4-5=-1804/191, 5-6=-2582/258, 6-7=-2594/260, TOP CHORD

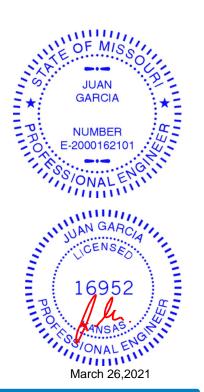
7-8=-2721/237, 8-9=-2649/250, 9-10=-2894/219, 10-11=-805/109, 2-19=-543/117 18-19=-208/1926, 6-16=-285/100, 15-16=-150/2443, 14-15=-160/2872, 10-14=-96/2625

BOT CHORD WFBS 4-18=0/600, 5-18=-843/181, 16-18=-226/2094, 5-16=-33/429, 7-16=-104/453,

7-15=-83/742, 8-15=-783/143, 8-14=-476/120, 9-14=-32/547, 3-19=-1590/168

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 3) Provide adequate drainage to prevent water ponding.
- 4) 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 159 lb uplift at joint 11 and 143 lb uplift at joint 19.
- 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 3-3-3 oc purlins, except

end verticals, and 2-0-0 oc purlins (3-0-11 max.): 4-7, 8-9.

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

3-19

6-0-0 oc bracing: 11-13.

1 Row at midpt



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

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

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



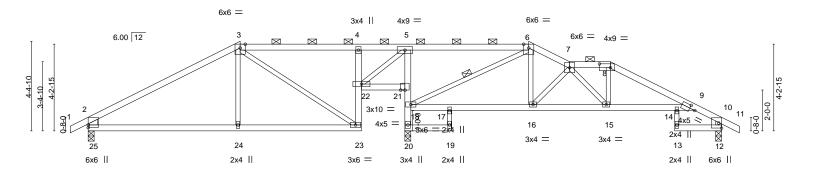
16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 129 H4 145382012 210401 D11 Roof Special Job Reference (optional) Wheeler Lumber, Waverly, KS - 66871, 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:31 2021 Page 1 ID:yQVeL3JaMLDqBo68G2v5nvznYPw-7K4EUpbDZw?Hs7?hPJiIZLqns0JdkF6m?5XK37zX3eE

17-9-8 2-3-8

21-6-12 3-9-4

Scale = 1:56.4



	7-5-4	13-4-8	15-6-0 15-7 ₁ 12 17-9-8	21-6-12	23-6-12 25-6-12		31-0-0
	7-5-4	5-11-4	2-1-8 0-1-12 2-1-12	3-9-4	2-0-0 2-0-0	3-1-12	2-3-8
Plate Offsets (X,Y)	[8:0-6-8,0-2-4], [9:0-3-3,0-1-13]						
	1,						
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 0.62	Vert(LL)	-0.13 14-15	>999 360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.82	Vert(CT)	-0.24 14-15	>745 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.69	Horz(CT)	0.15 12	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL)	0.11 14-15	>999 240	Weight: 113 lb	FT = 10%

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

8-11: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2

WEBS

BOT CHORD 2x3 SPF No.2 *Except* 2-25: 2x6 SPF No.2, 10-12: 2x4 SPF No.2

13-4-8 5-11-4

Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 21-22 4-8-8 oc bracing: 18-20

Structural wood sheathing directly applied or 5-4-14 oc purlins,

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

23-6-12 | 25-6-12 2-0-0 | 2-0-0

28-8-8 3-1-12

4-2-4 oc bracing: 18-21. 10-0-0 oc bracing: 14-15 1 Row at midpt

WEBS REACTIONS. 25=0-3-8, 20=0-3-8, 12=0-3-8 (size)

Max Horz 25=-70(LC 6)

Max Uplift 25=-119(LC 8), 20=-200(LC 5), 12=-147(LC 9) Max Grav 25=683(LC 21), 20=1574(LC 1), 12=662(LC 22)

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

TOP CHORD 2-3=-742/106, 5-6=-21/437, 6-7=-635/190, 7-8=-971/249, 8-9=-1090/237, 9-10=-270/81,

2-25=-625/171, 10-12=-690/171

BOT CHORD 24-25=-48/558, 23-24=-50/554, 22-23=-3/371, 4-22=-291/129, 21-22=-643/102,

18-20=-1562/218, 18-21=-1031/215, 5-21=-916/218, 17-18=-30/555, 16-17=-30/555,

15-16=-131/907, 14-15=-129/965, 9-14=-129/965

WEBS 3-24=0/292, 3-23=-565/63, 5-22=-129/893, 6-18=-1094/54, 6-16=-38/468,

7-16=-499/147

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 25=119, 20=200, 12=147,
- 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.



March 26,2021



Job Truss Truss Type Qty Ply Lot 129 H4 145382013 210401 D12 Roof Special 1 Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:33 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

5-0-6

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-4jC?vUcT5XF?6R94Wklmemm5mq?wCAY3TP0Q80zX3eC 17-9-8 2-3-8 20-9-4 2-11-12 22-2-0 1-4-12 25-6-12 3-4-12 27-6-12 | 28-8-8 | 2-0-0 | 1-1-12

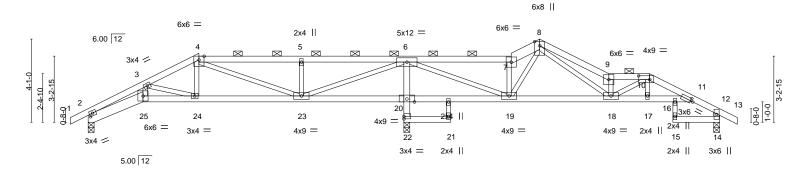
Structural wood sheathing directly applied or 4-2-13 oc purlins,

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

4-8-12 oc bracing: 20-23

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

Scale = 1:56.6



	2-8		10-5-10	15-6-0	15-7 ₁ 12 17-9-8	20-9-4	25-6-12		0-0	
	2-8	-5 2-8-15	5-0-6	5-0-6	0-1-12 2-1-12	2-11-12	4-9-8	2-0-0 1-1-12 2-3	3-8	
Plate Offse	Plate Offsets (X,Y) [2:0-1-13,0-1-8], [10:0-6-8,0-2-4], [11:0-1-7,0-1-8]									
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DO	L 1.15	TC 0.72	Vert(LL)	-0.11 18-19	>999 360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC 0.77	Vert(CT)	-0.20 18-19	>920 240			
BCLL	0.0 *	Rep Stress Inc	r YES	WB 0.63	Horz(CT)	0.14 14	n/a n/a			
BCDL	10.0	Code IRC201	8/TPI2014	Matrix-S	Wind(LL)	0.09 18	>999 240	Weight: 114 lb	FT = 10%	

LUMBER-BRACING-TOP CHORD

10-5-10 5-0-6

5-5-4 2-8-15

2x4 SPF No.2 *Except* TOP CHORD 7-8: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* **BOT CHORD** 2-25: 2x6 SPF No.2

WEBS 2x3 SPF No.2 *Except* 4-3-10 oc bracing: 20-22 12-14: 2x4 SPF No.2 4-9-11 oc bracing: 19-20. 10-0-0 oc bracing: 16-17

REACTIONS. (size) 2=0-3-8, 22=0-3-8, 14=0-3-8 Max Horz 2=62(LC 12)

Max Uplift 2=-131(LC 8), 22=-230(LC 8), 14=-115(LC 9) Max Grav 2=614(LC 21), 22=1838(LC 1), 14=549(LC 1)

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

TOP CHORD 2-3=-1783/400, 3-4=-951/224, 4-5=-477/180, 5-6=-475/179, 8-9=-1333/292,

9-10=-1096/203, 10-11=-1134/203, 12-14=-569/135

BOT CHORD 2-25=-379/1546, 24-25=-332/1354, 23-24=-161/833, 20-23=-1507/159, 20-22=-1795/255,

6-20=-1685/306, 19-20=-1481/168, 18-19=0/276, 17-18=-127/1051, 16-17=-125/1031,

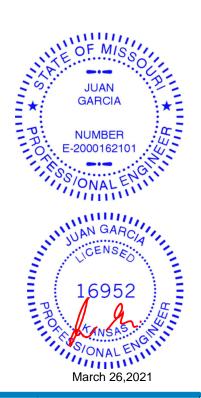
WEBS 3-25=-109/578, 3-24=-530/178, 4-24=-5/271, 4-23=-527/52, 5-23=-363/156,

6-23=-290/1833, 6-19=-118/1713, 7-19=-260/110, 8-19=-310/48, 8-18=-222/1136,

9-18=-720/198

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=131, 22=230, 14=115.
- 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

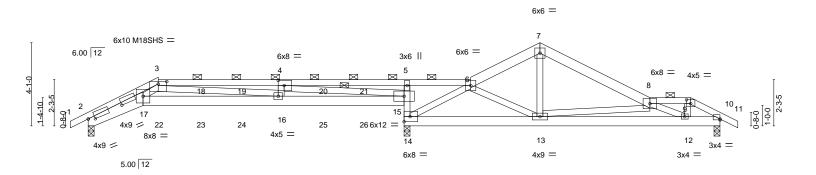
Job Truss Truss Type Qty Ply Lot 129 H4 145382014 210401 D13 ROOF SPECIAL GIRDER 1 Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:35 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-06KlKAekd9VjLkJSe8nEjBrSKdfRg3yMwjVXDuzX3eA

Structural wood sheathing directly applied or 2-9-11 oc purlins,

31-0-0 29-6-12 9-5-10 15-6-0 18-9-4 27-6-12 -0-10-8 0-10-8 1-5-4 0-10-8 2-0-0

Scale = 1:56.5



	2-8-			+	15-6-0 6-0-6	15-7-12 18-9-4 0-1-12 3-1-8		22-2-0 3-4-12		27-6- ² 5-4-1		29-6-12 2-0-0	 31-0-0 1-5-4
Plate Offsets		[2:1-9-6,0-0-2], [2:0-3-15,		0,0-1-7], [4:0					<u>-</u>	J-4-1		2-0-0	1-3-4
LOADING ((nef)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATE	:s	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC.	0.66	Vert(LL)	-0.25	(/	>755	360	MT20	-0	197/144
	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.15 NO	BC WB	0.83 0.70	Vert(CT) Horz(CT)	-0.47 0.13	16-17 10	>397 n/a	240 n/a	M18SH	lS	197/144
	10.0	Code IRC2018/TF	-	Matrix		Wind(LL)	0.13		>747	240	Weigh	:: 144 lb	FT = 10%

TOP CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD

3-6: 2x4 SPF 2100F 1.8E, 6-7,7-8: 2x6 SPF No.2

BOT CHORD 2x6 SPF No.2 *Except*

2-0-0 oc purlins (3-11-8 max.): 3-6, 8-9. 2-17: 2x8 SP DSS, 5-14: 2x4 SPF 2400F 2.0E **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x4 SPF No.2 **WEBS** 1 Row at midpt 4-15

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 10=0-3-8

Max Horz 2=-67(LC 9)

Max Uplift 2=-235(LC 8), 14=-376(LC 8), 10=-147(LC 30) Max Grav 2=819(LC 21), 14=1787(LC 1), 10=657(LC 1)

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

TOP CHORD 2-3=-3670/1045, 3-4=-2560/715, 4-5=-159/792, 5-6=-157/682, 6-7=-615/226,

7-8=-643/195, 8-9=-665/110, 9-10=-802/111

BOT CHORD 2-17=-984/3379, 16-17=-691/2022, 15-16=-698/2560, 14-15=-1222/347, 5-15=-542/234,

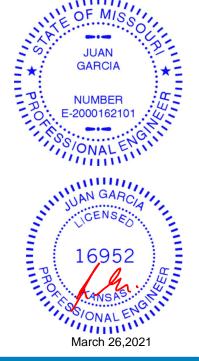
13-14=-269/401, 12-13=-319/1306, 10-12=-58/612

WFBS 3-16=-92/545, 4-15=-3342/883, 6-14=-1023/127, 6-13=-38/425, 7-13=-64/253,

8-13=-792/258, 8-12=-731/292, 9-12=-37/364, 3-17=-356/1736

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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=235, 14=376, 10=147. 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.



Continued on page 2

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

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 129 H4	
						145382014
210401	D13	ROOF SPECIAL GIRDER	1	1	11.5 ()	
					Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:35 2021 Page 2 ID:yQVeL3JaMLDqBo68G2v5nvznYPw-06KlKAekd9VjLkJSe8nEjBrSKdfRg3yMwjVXDuzX3eA

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 160 lb down and 165 lb up at 3-5-4, 81 lb down and 67 lb up at 5-6-0, 81 lb down and 67 lb up at 7-6-0, 81 lb down and 67 lb up at 9-6-0, 81 lb down and 67 lb up at 13-6-0, and 88 lb down and 70 lb up at 15-5-4, and 17 lb down and 33 lb up at 29-6-12 on top chord, and 44 lb down at 3-5-4, 23 lb down at 5-6-0, 23 lb down at 7-6-0, 23 lb down at 9-6-0, 23 lb down at 11-6-0, 23 lb down at 13-6-0, and 24 lb down at 15-7-12, and 2 lb down and 1 lb up at 29-6-12 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

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-6=-70, 6-7=-70, 7-8=-70, 8-9=-70, 9-11=-70, 2-17=-20, 15-17=-20, 10-14=-20

Concentrated Loads (lb)

Vert: 3=-39(B) 15=-20(B) 5=-38(B) 16=-16(B) 4=-31(B) 12=1(B) 18=-31(B) 19=-31(B) 20=-31(B) 21=-31(B) 22=-22(B) 23=-16(B) 24=-16(B) 25=-16(B) 26=-16(B)

Job Truss Truss Type Qty Lot 129 H4 145382015 210401 E1 Common Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:45 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-j1wXQbm?GDllYH3NDFya7lFC3fCc?k?qDHw3ZJzX3e0 6-8-0 6-10-0 0-10-8 Scale = 1:26.7 4x9 = 2 6.00 12 4x9 || 0-6-0 6 5 2x4 || 6x6 || 6-8-0 13-6-0 Plate Offsets (X,Y)--[1:0-5-5,0-2-0], [5:Edge,0-5-8] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d 25.0 TCLL Plate Grip DOL 1.15 TC 0.58 Vert(LL) -0.05 5-6 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.33 Vert(CT) -0.10 5-6 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.09 Horz(CT) 0.01 5 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.03 >999 240 Weight: 38 lb Matrix-R 5-6 LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 5-9-4 oc purlins,

BOT CHORD

except end verticals.

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

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

2-6: 2x3 SPF No.2

REACTIONS. (size) 7=0-3-8, 5=0-3-8 Max Horz 7=-73(LC 4)

Max Uplift 7=-71(LC 8), 5=-98(LC 9) Max Grav 7=584(LC 1), 5=667(LC 1)

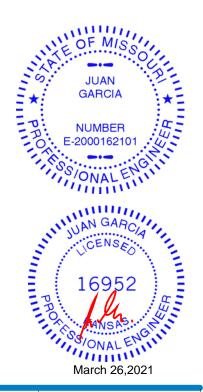
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

1-2=-726/100, 2-3=-733/100, 1-7=-514/114, 3-5=-607/146 TOP CHORD

BOT CHORD 6-7=-18/554, 5-6=-18/554

WEBS 2-6=0/274

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





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 129 H4 145382016 Hip 210401 E2 Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:46 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-BDUvexmd1Xu99QeanyUpfVoNR3ZnkBr_Sxgc5lzX3e?

8-2-12

2-9-8

Scale = 1:25.5

14-6-8

0-10-8

13-8-0

5-5-4

Structural wood sheathing directly applied or 5-11-9 oc purlins,

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

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

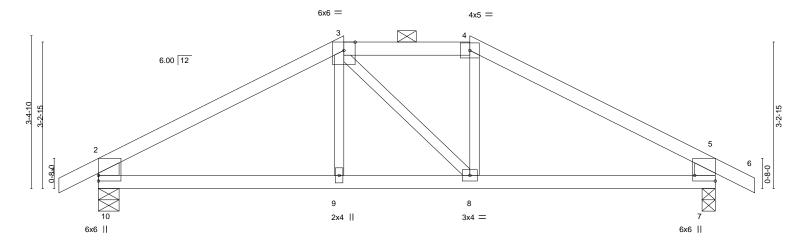


Plate Offsets (X,Y)	[7:Edge,0-5-8]	J-J			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.47	DEFL. in (low Vert(LL) -0.03 8-	oc) I/defl L/d I-9 >999 360	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.27 WB 0.05	Vert(CT) -0.05 9-1 Horz(CT) 0.01		W1120 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.01	8 >999 240	Weight: 44 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

-0-10-8

0-10-8

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-10,5-7: 2x6 SPF No.2

REACTIONS. (size) 10=0-5-8, 7=0-3-8

Max Horz 10=-58(LC 6)

Max Uplift 10=-89(LC 8), 7=-89(LC 9) Max Grav 10=672(LC 1), 7=672(LC 1)

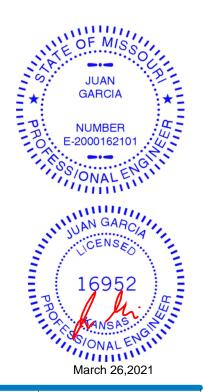
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. $2-3=-795/70,\ 3-4=-624/103,\ 4-5=-796/70,\ 2-10=-608/128,\ 5-7=-608/128$ TOP CHORD

5-5-4 5-5-4

BOT CHORD 9-10=-23/626, 8-9=-24/623, 7-8=0/626

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

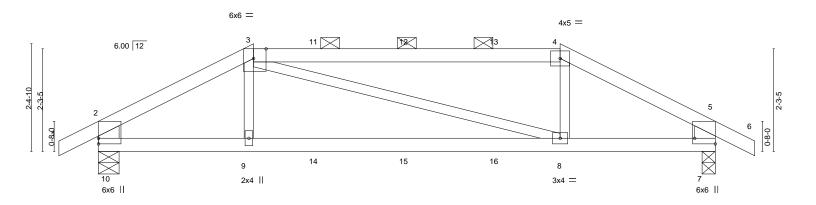
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



Job Truss Truss Type Qty Lot 129 H4 145382017 210401 E3 Hip Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:47 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-fP2HrHnFor00naDmLg?2CjLUpTopTdS7hbPAeCzX3e_ 10-2-12 13-8-0 3-5-4 3-5-4 6-9-8 0-10-8 3-5-4 0-10-8

Scale = 1:25.5



	3-5-4		10-2-12		13-8-0	
	3-5-4		6-9-8	1	3-5-4	
Plate Offsets (X,Y)	[3:0-3-5,Edge], [7:Edge,0-5-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/de	lefl L/d	PLATES G	RIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -0.11 8-9 >99	99 360	MT20 19	7/144
TCDL 10.0	Lumber DOL 1.15	BC 0.73	Vert(CT) -0.25 8-9 >62	28 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.09	Horz(CT) 0.02 7 r	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.09 8-9 >99	99 240	Weight: 45 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD

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

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

2-10,5-7: 2x6 SP DSS

REACTIONS. (size) 10=0-5-8, 7=0-3-8

Max Horz 10=-45(LC 6)

Max Uplift 10=-192(LC 8), 7=-192(LC 9) Max Grav 10=843(LC 1), 7=843(LC 1)

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

TOP CHORD 2-3=-1227/264, 3-4=-1029/258, 4-5=-1229/264, 2-10=-760/178, 5-7=-761/178

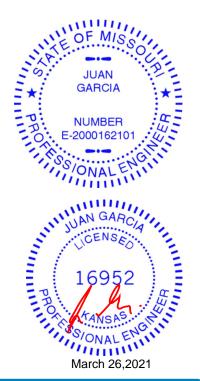
BOT CHORD 9-10=-226/1033, 8-9=-233/1027, 7-8=-209/1035

WEBS 3-9=0/282, 4-8=0/282

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=192, 7=192.
- 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) 162 lb down and 138 lb up at 3-5-4, 78 lb down and 65 lb up at 4-10-0, 78 lb down and 65 lb up at 6-10-0, and 78 lb down and 65 lb up at 8-10-0, and 162 lb down and 138 lb up at 10-2-12 on top chord, and 55 lb down at 3-5-4, 23 lb down at 4-10-0, 23 lb down at 6-10-0, and 23 lb down at 8-10-0, and 55 lb down at 10-2-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 4-1-11 oc purlins,

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

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

Continued on page 2

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

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 129 H4	٦
210401	E2	Hip Girder	1	1	145382017	
210401	E3	Frilp Gilder	'	'	Job Reference (optional)	

Wheeler Lumber,

Waverly, KS - 66871,

8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:47 2021 Page 2 ID:yQVeL3JaMLDqBo68G2v5nvznYPw-fP2HrHnFor00naDmLg?2CjLUpTopTdS7hbPAeCzX3e_

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 3=-64(B) 4=-64(B) 9=-37(B) 8=-37(B) 11=-30(B) 12=-30(B) 13=-30(B) 14=-17(B) 15=-17(B) 16=-17(B)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 129 H4 145382018 210401 J1 Diagonal Hip Girder 2 Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:48 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:pq50?Ycap6WpLXoTu4wfY2za1nE-7ccg2douZ88tPkoyvNWHlwtjUsE8C5iGvF9j9ezX3dz 2-9-3 2-9-3 1-2-14 Scale = 1:12.8 3x4 || 4 2.83 12 2 5 2x4 || ⁶ 2x4 || 2-9-3 Plate Offsets (X,Y)--[3:0-1-12,0-2-0] SPACING-(loc) **PLATES** GRIP LOADING (psf) 2-0-0 CSI DEFL. in I/defI L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.50 Vert(LL) -0.07 6 >920 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.28 Vert(CT) -0.13 6 >460 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.03 Horz(CT) 0.04 5 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) 0.06 6 >977 240 Weight: 16 lb Matrix-S LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals.

BOT CHORD

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

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

REACTIONS. (size) 5=Mechanical, 2=0-4-9

Max Horz 2=52(LC 22)

Max Uplift 5=-40(LC 8), 2=-102(LC 4) Max Grav 5=220(LC 1), 2=350(LC 1)

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

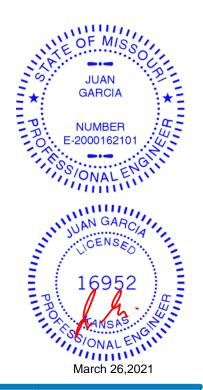
NOTES-

- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2 = 102.
- 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) 67 lb down and 31 lb up at 2-7-6, and 67 lb down and 31 lb up at 2-7-6 on top chord, and 0 lb down at 2-7-15, and 0 lb down at 2-7-15 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: 1-4=-70, 2-6=-20, 3-5=-20





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 129 H4 145382019 210401 J2 Jack-Open Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:57 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:pq50?Ycap6WpLXoTu4wfY2za1nE-NLf3xivXRvGb_7_hwmAOcqlK4VNlpA6b_8qizdzX3dq 2-0-0 3-10-8 0-10-8 1-10-8 Scale = 1:11.7 4.00 12 2 0-8-0 5 0-9-0 6 2x4 || 2x4 = 2-0-0 2-0-0 Plate Offsets (X,Y)--[3:0-1-8,0-2-11] SPACING-(loc) **PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.25 Vert(LL) -0.03 6 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.05 Vert(CT) -0.05 6 >820 240 BCLL 0.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.02 5 n/a n/a Code IRC2018/TPI2014 240 FT = 10% **BCDL** 10.0 Matrix-P Wind(LL) 6 >999 Weight: 11 lb 0.03 LUMBER-BRACING-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 3-10-8 oc purlins. BOT CHORD 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. WEBS 2x3 SPF No.2

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=65(LC 4)

Max Uplift 4=-52(LC 8), 2=-65(LC 4)

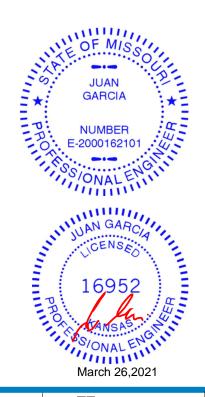
Max Grav 4=135(LC 1), 2=252(LC 1), 5=48(LC 3)

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

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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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 129 H4 145382020 210401 J3 Jack-Open Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:59 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:pq50?Ycap6WpLXoTu4wfY2za1nE-JjmqMNxnzXWJDQ842BDshFrjil3eH4puRSJo2VzX3do 0-10-8 1-9-7 Scale = 1:8.3 4.00 12 0-9-0 4

					'		1-9-7			1			
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	0.05	Vert(LL)	-0.00	2	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 5 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

1-9-7

2x4 =

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2

3=Mechanical, 2=0-3-8, 4=Mechanical

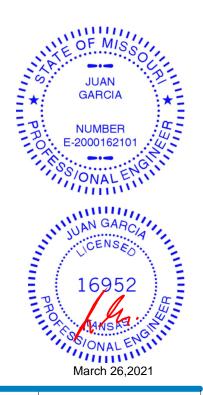
Max Horz 2=37(LC 4) Max Uplift 3=-27(LC 8), 2=-56(LC 4)

Max Grav 3=45(LC 1), 2=158(LC 1), 4=35(LC 3)

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

NOTES-

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



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

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



Job	Truss	Truss Type	Qty	Ply	Lot 129 H4	
210401	И	JACK-CLOSED SUPPORTE	2	1	145382021	
210401	04	SACK GEOGED GOLL OKTE	_		Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:59 2021 Page 1 ID:pq50?Ycap6WpLXoTu4wfY2za1nE-JjmqMNxnzXWJDQ842BDshFrj5l3oH4puRSJo2VzX3do

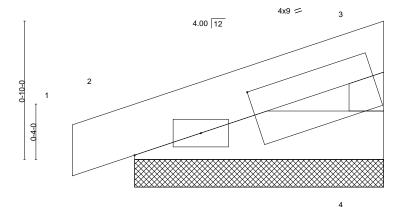
Structural wood sheathing directly applied or 1-6-0 oc purlins,

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

except end verticals.



Scale = 1:6.9



2x4 =

Plate Off	sets (X,Y)	[3:0-9-2,0-1-12]										
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	0.03	Vert(LL)	-0.00	1	n/r	120	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	0.00	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/TI	PI2014	Matrix	:-P						Weight: 4 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

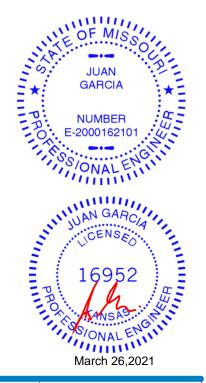
REACTIONS. (size) 4=1-6-0, 2=1-6-0 Max Horz 2=24(LC 5)

Max Uplift 4=-12(LC 8), 2=-28(LC 4) Max Grav 4=59(LC 1), 2=93(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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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) 4, 2.
- 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.





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

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 129 H4	
					145382022	2
210401	J5	JACK-CLOSED	2	1		
					Job Reference (optional)	

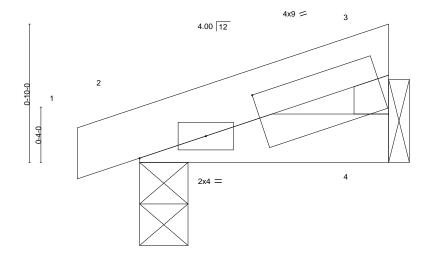
Waverly, KS - 66871, Wheeler Lumber,

8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:17:00 2021 Page 1 ID:pq50?Ycap6WpLXoTu4wfY2za1nE-nwKCajxPkqeArajGcuk5ESNutiO20X31g63MayzX3dn

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

0-4-8 1-6-0

Scale = 1:6.9



1-6-0

BOT CHORD

Plate Offsets (X	ate Offsets (X,Y) [3:0-9-2,0-1-12]											
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 0.02	Vert(LL) -0.00	2	>999	360	MT20	197/144				
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	2	>999	240						
BCLL 0.0	* Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	4	n/a	n/a						
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 4 lb	FT = 10%				

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 1-6-0 oc purlins, 2x4 SPF No.2 **BOT CHORD** except end verticals.

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

2x3 SPF No.2

Max Horz 2=24(LC 5)

Max Uplift 4=-12(LC 8), 2=-30(LC 4) Max Grav 4=57(LC 1), 2=94(LC 1)

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

NOTES-

WEBS

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





Job Truss Truss Type Qty Lot 129 H4 145382023 210401 J6 Jack-Open

Wheeler Lumber, Waverly, KS - 66871,

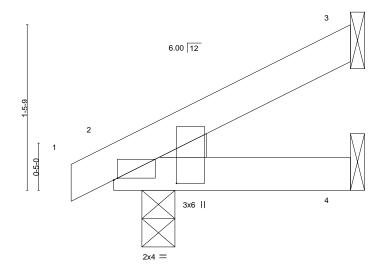
Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:17:01 2021 Page 1 ID:yQVeL3JaMLDqBo68G2v5nvznYPw-F6uan3y1V8m1TklS9cFLmgw3D6k1I_JBvmov6OzX3dm

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

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

2-1-2 2-1-2 0-4-8

Scale = 1:10.2



0-3-0 1-10-2

BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:0-0-7,Edge], [2:0-0-5,0-6-11]

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 0.05	Vert(LL) -0.00 2 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00 2-4 >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-P	Wind(LL) 0.00 2 **** 240	Weight: 6 lb FT = 10%

LUMBER-

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

WEDGE

REACTIONS.

Left: 2x3 SPF No.2

(size) 3=Mechanical, 2=0-3-8, 4=Mechanical

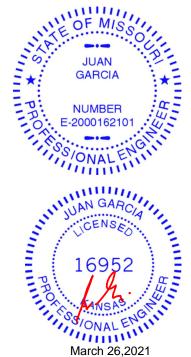
Max Horz 2=49(LC 8)

Max Uplift 3=-39(LC 8), 2=-16(LC 8)

Max Grav 3=61(LC 1), 2=126(LC 1), 4=38(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



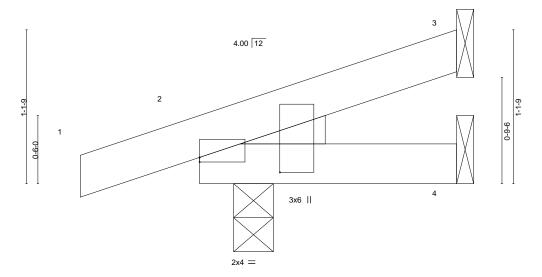


Job Truss Truss Type Qty Ply Lot 129 H4 145382024 210401 J7 Jack-Open Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:17:01 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-F6uan3y1V8m1TklS9cFLmgw2v6k2l_JBvmov6OzX3dm



Scale = 1:8.5



	0-3-0	1-10-10
1	0-3-0	1-7-10

Plate Off	ate Offsets (X,Y) [2:0-0-0,0-0-6], [2:0-1-5,0-7-1]												
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	2	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	2-4	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 6 lb	FT = 10%	

LUMBER-

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

WEDGE

Left: 2x3 SPF No.2

BRACING-TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 1-10-10 oc purlins.

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

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

Max Horz 2=39(LC 4)

Max Uplift 3=-29(LC 8), 2=-56(LC 4)

Max Grav 3=49(LC 1), 2=162(LC 1), 4=37(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) 3, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply Lot 129 H4 145382025 210401 J8 Diagonal Hip Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:17:02 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-jISy?PzgGSvu4utejJmaJtS8BW?IUNIK7QYTfqzX3dl 5-11-2 0-11-1 5-11-2

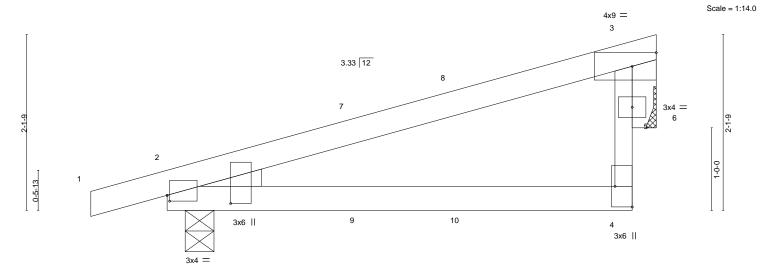


Plate Offsets (X V) [2:0-1-3 0-9-3] [2:0-0-6 0-0-14] [4:Edge 0-2-8]

T late Oil	sie Oliseis (A, 1) [2.0-1-3,0-3-3], [2.0-0-0,0-0-14], [4.Euge,0-2-0]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.02	2-4	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.05	2-4	>999	240			
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	6	n/a	n/a			
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.01	2-4	>999	240	Weight: 17 lb	FT = 10%	

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

OTHERS 2x4 SPF No.2 WEDGE

Left: 2x3 SPF No.2

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

Max Horz 2=62(LC 5)

Max Uplift 2=-90(LC 4), 6=-50(LC 8) Max Grav 2=339(LC 1), 6=219(LC 1)

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

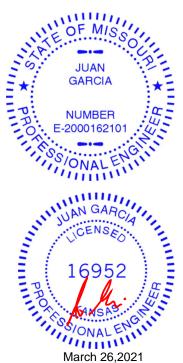
TOP CHORD 2-3=-253/29, 3-5=-277/153

- 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.
- 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) 2, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 83 lb down and 35 lb up at 2-4-9, and 64 lb down and 45 lb up at 3-7-3 on top chord, and at 2-4-9, and 4 lb down at 3-7-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 2-4=-20



Structural wood sheathing directly applied or 5-11-2 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Lot 129 H4 145382026 210401 J9 Jack-Open Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:17:03 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-BU0LCI_I1I1li2RrH1Hps5?LgvQ1DuoUM4H0BGzX3dk -1-6-15 1-6-15 3-2-5 Scale = 1:10.6 3.33 12 1-6-10 2 5 3x6 II 3-1-12 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 25.0 Plate Grip DOL TC Vert(LL) -0.00 197/144 **TCLL** 1.15 0.25 4-5 >999 360 MT20

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.00

-0.00

0.00

4-5

4-5

3

>999

>999

except end verticals.

n/a

240

n/a

240

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

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

Weight: 9 lb

FT = 10%

LUMBER-

REACTIONS.

TCDL

BCLL

BCDL

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

BOT CHORD WEBS 2x3 SPF No.2

10.0

0.0

10.0

(size) 5=0-5-3, 3=Mechanical, 4=Mechanical Max Horz 5=56(LC 12)

Code IRC2018/TPI2014

Max Uplift 5=-82(LC 6), 3=-52(LC 12), 4=-3(LC 19) Max Grav 5=167(LC 1), 3=30(LC 1), 4=40(LC 3)

Lumber DOL

Rep Stress Incr

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

ВС

WB

Matrix-R

0.06

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

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 36 lb down and 13 lb up at -1-6-15, and 36 lb down and 13 lb up at -1-6-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

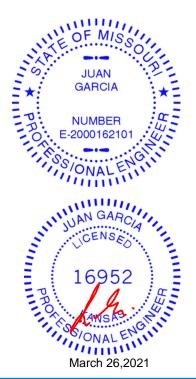
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-56(F=-28, B=-28)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-42(F=14, B=14), 2=-2(F=34, B=34)-to-3=-56(F=7, B=7), 5=-0(F=10, B=10)-to-4=-16(F=2, B=2)





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

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

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 129 H4 145382027 210401 J10 Jack-Open

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:49 2021 Page 1

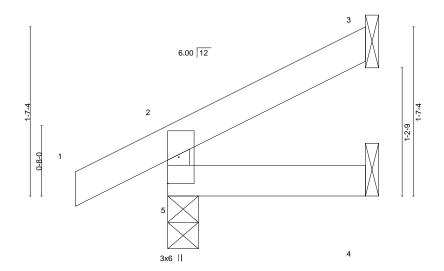
Structural wood sheathing directly applied or 1-10-8 oc purlins,

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

except end verticals.

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-coA2GzpWKSGk0uN9S51WH8Q_0GeMxYLQ8vuHh4zX3dy 1-10-8 -0-10-8 0-10-8 1-10-8

Scale = 1:10.9



1-10-8 1-10-8

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	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/TPI2	2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

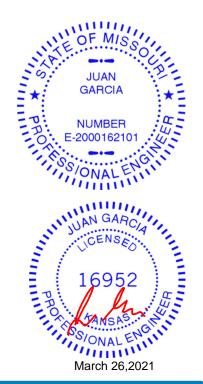
> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=47(LC 8)

Max Uplift 5=-25(LC 8), 3=-31(LC 8)

Max Grav 5=167(LC 1), 3=45(LC 1), 4=33(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.
- 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 129 H4	
210401	J10A	Jack-Open	1	1	145382028	
210401	310A	Jack-Open	'	'	Job Reference (optional)	

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:50 2021 Page 1 ID:yQVeL3JaMLDqBo68G2v5nvznYPw-4_kQTJq85mObe2yL0oYlqLzA4g_Zq?aZNZeqDXzX3dx

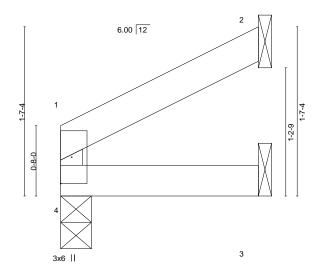
Structural wood sheathing directly applied or 1-10-8 oc purlins,

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

except end verticals.

1-10-8

Scale = 1:10.9



1-10-8 1-10-8

LOADING ((psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 2	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	-0.00	4	>999	360	MT20	197/144
TCDL 1	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	3-4	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL 1	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.00	4	>999	240	Weight: 5 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

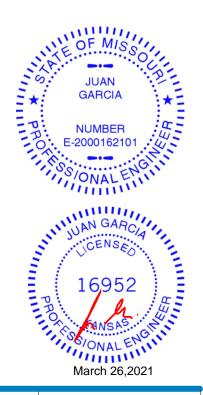
> 4=0-3-8, 2=Mechanical, 3=Mechanical (size)

Max Horz 4=31(LC 5) Max Uplift 2=-35(LC 8)

Max Grav 4=79(LC 1), 2=58(LC 1), 3=34(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Ply Lot 129 H4 145382029 210401 J11 Jack-Open Girder 2 Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:50 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-4_kQTJq85mObe2yL0oYlqLz6jgzwg?aZNZeqDXzX3dx 1-6-15 3-5-0 Scale = 1:10.9 0-4-1 3.33 12 2 0-8-0 4 3x6 II LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 25.0 Plate Grip DOL Vert(LL) -0.01 197/144 **TCLL** 1.15 TC 0.26 4-5 >999 360 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.07 Vert(CT) -0.01 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.00 4-5 >999 240 Weight: 10 lb FT = 10% BRACING-LUMBER-TOP CHORD Structural wood sheathing directly applied or 3-5-0 oc purlins,

BOT CHORD

except end verticals.

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

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

BOT CHORD WEBS 2x3 SPF No.2

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

Max Horz 5=58(LC 12)

Max Uplift 5=-83(LC 4), 3=-53(LC 12), 4=-2(LC 19) Max Grav 5=176(LC 1), 3=38(LC 1), 4=45(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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 39 lb down and 14 lb up at -1-6-15, and 39 lb down and 14 lb up at -1-6-15 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

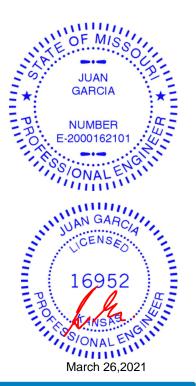
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-60(F=-30, B=-30)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-42(F=14, B=14), 2=-2(F=34, B=34)-to-3=-60(F=5, B=5), 5=-0(F=10, B=10)-to-4=-17(F=1, B=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 chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



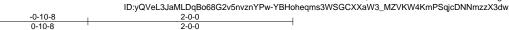
Job Truss Truss Type Qty Lot 129 H4 145382030 210401 J12 Jack-Open 2

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:51 2021 Page 1

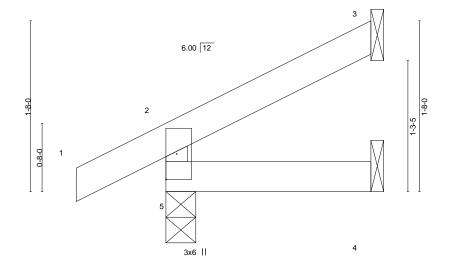
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.



Scale = 1:11.2



	Z-U-U												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	4-5	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a			
BCDI	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%	

2-0-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

BOT CHORD WEBS 2x3 SPF No.2

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

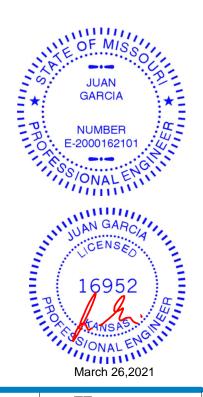
Max Horz 5=50(LC 8) Max Uplift 5=-25(LC 8), 3=-33(LC 8)

Max Grav 5=171(LC 1), 3=50(LC 1), 4=35(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) 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.



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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Lot 129 H4 145382031 210401 J13 Jack-Open Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:52 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-0NrAu_rOdNeItM6j8DaDvm2SRUeT8v4sqt7xIPzX3dv 4-8-13 1-2-14 4-8-13 Scale = 1:14.5

4.24 12 0-8-0 3x6 ||

4-8-13 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 25.0 Plate Grip DOL Vert(LL) -0.02 **TCLL** 1.15 TC 0.31 4-5 >999 360 MT20

197/144 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) -0.04 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.01 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.02 4-5 >999 240 Weight: 13 lb FT = 10%

LUMBER-

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

WEBS 2x6 SPF No.2 BRACING-TOP CHORD

Structural wood sheathing directly applied or 4-8-13 oc purlins,

except end verticals.

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

REACTIONS. (size)

5=0-4-9, 3=Mechanical, 4=Mechanical

Max Horz 5=85(LC 4)

Max Uplift 5=-91(LC 4), 3=-63(LC 8)

Max Grav 5=317(LC 1), 3=133(LC 1), 4=82(LC 3)

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

TOP CHORD 2-5=-281/129

NOTES-

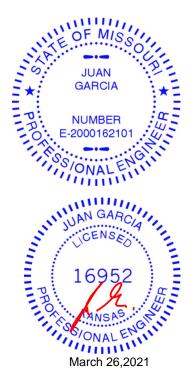
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 66 lb down and 22 lb up at 1-11-15, and 66 lb down and 22 lb up at 1-11-15 on top chord, and 2 lb down and 2 lb up at 1-11-15, and 2 lb down and 2 lb up at 1-11-15 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: 7=4(F=2, B=2)

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





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

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

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



Job Truss Truss Type Qty Lot 129 H4 145382032 210401 J14 Jack-Open 17 Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:53 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-UZPZ6Ks0Ohm9VVhwhw6SS_bfit?BtMK03XsUqrzX3du

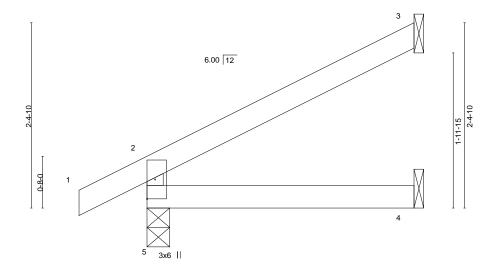
Structural wood sheathing directly applied or 3-5-4 oc purlins,

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

except end verticals.

3-5-4 3-5-4 -0-10-8 0-10-8

Scale = 1:14.8



BRACING-

TOP CHORD

BOT CHORD

LOADIN TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.15	DEFL. in Vert(LL) -0.01	(loc) 4-5	L/d 60	PLATES MT20	GRIP 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01	4-5 4-5	40	WIIZU	197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-R	Horz(CT) -0.00 Wind(LL) 0.01	3 4-5	n/a !40	Weight: 10 lb	FT = 10%

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

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

Max Horz 5=78(LC 8)

Max Uplift 5=-28(LC 8), 3=-58(LC 8)

Max Grav 5=226(LC 1), 3=100(LC 1), 4=62(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.
- 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 129 H4 145382033 210401 J15 Jack-Open 8

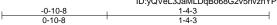
Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:53 2021 Page 1 ID:yQVeL3JaMLDqBo68G2v5nvznYPw-UZPZ6Ks0Ohm9VVhwhw6SS_bg?t0UtMK03XsUqrzX3du

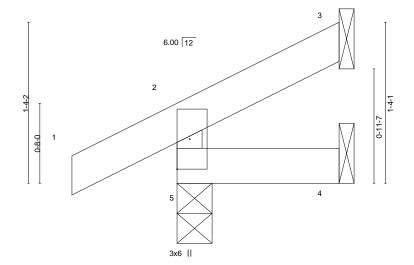
Structural wood sheathing directly applied or 1-4-3 oc purlins,

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

except end verticals.



Scale = 1:9.6



1-4-3

BRACING-

TOP CHORD

BOT CHORD

LOADIN	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1	1.15	TC	0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1	1.15	BC	0.01	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20)14	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 5 lb	FT = 10%

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

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

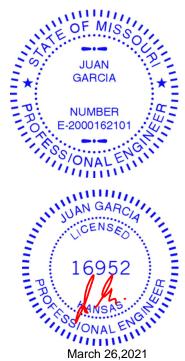
Max Horz 5=36(LC 8)

Max Uplift 5=-26(LC 8), 3=-19(LC 8)

Max Grav 5=151(LC 1), 3=21(LC 1), 4=22(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.
- 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 129 H4 145382034 210401 J16 Jack-Open Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:54 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-ymzxJgte9_u07fF6Fedh_B7rWHLmcpa9IBc2NlzX3dt 1-2-7 1-2-14 1-2-7 Scale = 1:8.3 4.24 12 2 0-8-14 0-8-0 4

except end verticals.

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matri	x-R	Wind(LL)	0.00	5	>999	240	Weight: 5 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

3x6 II

LUMBER-

REACTIONS.

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

BOT CHORD WEBS 2x3 SPF No.2

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

Max Horz 5=38(LC 7) Max Uplift 5=-115(LC 6), 3=-13(LC 5)

Max Grav 5=69(LC 1), 3=18(LC 15), 4=16(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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=115.
- 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) 2 lb down and 1 lb up at -1-2-14 , and 2 lb down and 1 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

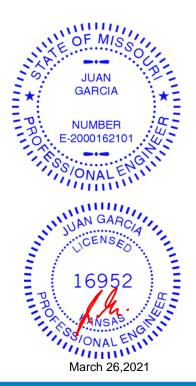
LOAD CASE(S) Standard

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

Vert: 1=-3(F=-1, B=-1)

Trapezoidal Loads (plf)

Vert: 1=-7(F=32, B=32)-to-2=-30(F=20, B=20), 2=-30(F=20, B=20)-to-3=-50(F=10, B=10), 5=-9(F=6, B=6)-to-4=-14(F=3, B=3



Structural wood sheathing directly applied or 1-2-7 oc purlins,

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 chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Lot 129 H4 145382035 210401 J17 Jack-Open Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:55 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-QyXJW0tHvI0tlpqlpL8wXPg02hhgLGqIWqLbvkzX3ds 1-2-14 2-4-9 Scale = 1:10.4 0-4-4 4.24 12 2 1-6-1 1-1-14 3x6 || 2-4-9 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc)

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

BOT CHORD

-0.00

-0.00

-0.00

0.00

4-5

4-5

3

5 >999

>999

>999

except end verticals.

n/a

360

240

n/a

240

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

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

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

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

25.0

10.0

0.0

10.0

TOP CHORD

1.15

1.15

NO

TC

ВС

WB

Matrix-R

0.09

0.03

0.00

(size) 5=0-4-9, 3=Mechanical, 4=Mechanical Max Horz 5=57(LC 12)

Code IRC2018/TPI2014

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Max Uplift 5=-92(LC 6), 3=-37(LC 12), 4=-1(LC 19) Max Grav 5=93(LC 1), 3=24(LC 1), 4=30(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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3, 4.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 18 lb down and 7 lb up at -1-2-14, and 18 lb down and 7 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

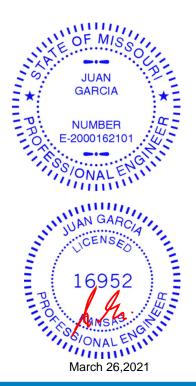
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-28(F=-14, B=-14)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-6=-23(F=24, B=24), 6=0(F=35, B=35)-to-2=-10(F=30, B=30), 2=-10(F=30, B=30)-to-3=-49(F=10, B=10), 5=-3(F=9, B=9)-to-4=-14(F=3, B=3)



197/144

FT = 10%

MT20

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

Weight: 7 lb



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 129 H4 145382036 210401 J18 Jack-Open Girder

Wheeler Lumber, Waverly, KS - 66871,

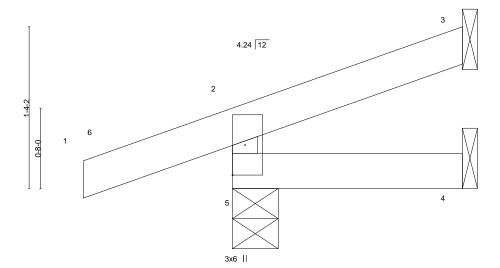
Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:55 2021 Page 1 ID:yQVeL3JaMLDqBo68G2v5nvznYPw-QyXJW0tHvI0tlpqlpL8wXPg0GhhpLGqIWqLbvkzX3ds

Structural wood sheathing directly applied or 1-10-14 oc purlins,

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

1-10-14 1-2-14 1-10-14

Scale = 1:9.6



								0-14			<u> </u>	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL		(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(L	_) -0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(C	T) -0.00	5	>999	240		
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TP	NO I2014	WB Matrix	0.00 -R	Horz(0 Wind(,	3 5	n/a >999	n/a 240	Weight: 6 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

1-10-14

except end verticals.

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

> (size) 5=0-4-9, 3=Mechanical, 4=Mechanical Max Horz 5=49(LC 7)

Max Uplift 5=-108(LC 6), 3=-18(LC 12) Max Grav 5=70(LC 1), 3=24(LC 1), 4=26(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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 5=108
- 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) 9 lb down and 3 lb up at -1-2-14 , and 9 lb down and 3 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the responsibility of
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

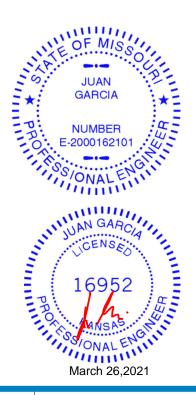
LOAD CASE(S) Standard

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

Vert: 1=-14(F=-7, B=-7)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-6=-10(F=30, B=30), 6=0(F=35, B=35)-to-2=-18(F=26, B=26), 2=-18(F=26, B=26)-to-3=-50(F=10, B=10), 5=-5(F=7, B=7)-to-4=-14(F=3, B=3)





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

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

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



Job Truss Truss Type Qty Lot 129 H4 145382037 210401 J19 Diagonal Hip Girder Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:56 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-u85hkMuvgc8kMzPVN3f93cD9c5?w4j3SlU58RAzX3dr 4-8-13 1-2-14 4-8-13 Scale = 1:14.5 4.24 12 4 3x4 = 우 0-8-0 3.54 12 3x6 II 3-8-15 0-11-15 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL Vert(LL) -0.02 360 197/144 **TCLL** 1.15 TC 0.23 5-6 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) -0.03 5-6 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) -0.01 3 n/a n/a Code IRC2018/TPI2014 BCDI 10.0 Matrix-R Wind(LL) 0.02 5-6 >999 240 Weight: 13 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

> (size) 6=0-4-3, 3=Mechanical, 4=Mechanical Max Horz 6=84(LC 12)

Max Uplift 6=-64(LC 4), 3=-53(LC 12)

Max Grav 6=196(LC 1), 3=108(LC 1), 4=76(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.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 44 lb down and 16 lb up at -1-2-14, and 44 lb down and 16 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the
- 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

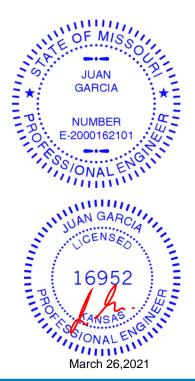
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-67(F=-34 B=-34)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-33(F=18, B=18), 2=-2(F=34, B=34)-to-3=-83(F=-6, B=-6), 6=-0(F=10, B=10)-to-5=-19(F=1, B=1), 5=-19(F=1, B=1)-to-4=-24(F=-2, B=-2)



Structural wood sheathing directly applied or 4-8-13 oc purlins,

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

except end verticals.



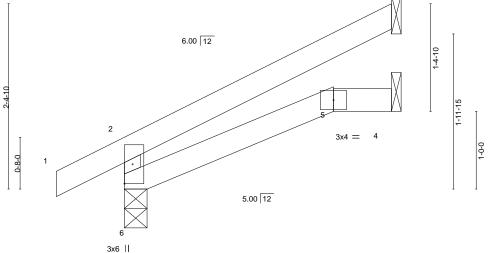
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 129 H4 145382038 210401 J20 Jack-Open 6 Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:57 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-NLf3xivXRvGb_7_hwmAOcqlLhVMApAJb_8qizdzX3dq 3-5-4 3-5-4 -0-10-8 0-10-8 Scale = 1:14.8



		1				2-8-5			0-8-15			
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	0.15	Vert(LL)	-0.01	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	5-6	>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/TI	PI2014	Matri	x-R	Wind(LL)	0.01	5-6	>999	240	Weight: 10 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

2-8-5

3-5-4

except end verticals.

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

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

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

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

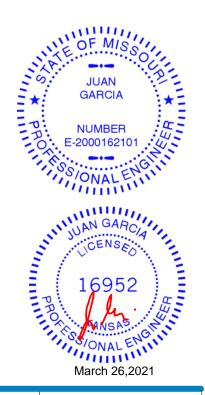
Max Horz 6=77(LC 8)

Max Uplift 6=-26(LC 8), 3=-60(LC 8)

Max Grav 6=226(LC 1), 3=101(LC 1), 4=62(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) 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.





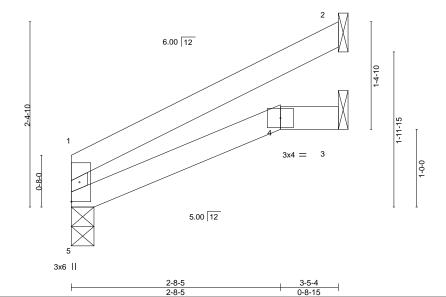
Job Truss Truss Type Qty Lot 129 H4 145382039 210401 J21 Jack-Open Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:16:58 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-rXCS92w9CDOScHZtUUhd91IW6uiMYdZlDoaFW3zX3dp

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

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

except end verticals.

Scale = 1:14.8



LOADING TCLL TCDL	G (psf) 25.0 10.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.17 0.09	DEFL. Vert(LL) Vert(CT)	in -0.01 -0.01	(loc) 4-5 4-5	l/defl >999 >999	L/d 360 240	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 * 10.0	Rep Stress Incr Code IRC2018/TF	YES PI2014	WB Matri	0.00 x-R	Horz(CT) Wind(LL)	0.01 0.01	2 4-5	n/a >999	n/a 240	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

> (size) 5=0-3-8, 2=Mechanical, 3=Mechanical Max Horz 5=60(LC 8)

Max Uplift 5=-2(LC 8), 2=-62(LC 8)

Max Grav 5=147(LC 1), 2=108(LC 1), 3=63(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) 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, 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.



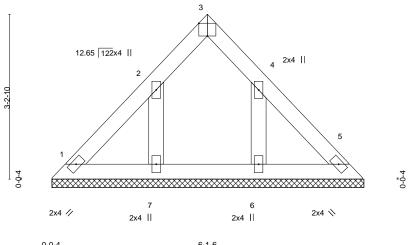


Job Truss Truss Type Qty Ply Lot 129 H4 145382040 210401 LAY1 **GABLE** Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:17:04 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871, ID:pq50?Ycap6WpLXoTu4wfY2za1nE-fhajP5_wo39cKC01rko2OIYZgJmryKidbk1ZjjzX3dj

3-0-11 3-0-11

> Scale = 1:22.5 3x4 =



6-1-6

_Plate Off	Plate Offsets (X,Y) [3:Edge,0-3-0], [4:0-0-1,0-0-0]											
LOADIN	\(\(\)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P						Weight: 20 lb	FT = 10%

LUMBER-

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

BRACING-TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 6-0-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

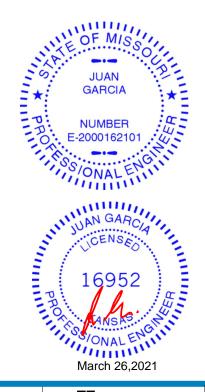
REACTIONS. All bearings 6-1-2. (lb) -Max Horz 1=-76(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) except 7=-102(LC 8), 6=-100(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6

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
- 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 102 lb uplift at joint 7 and 100 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





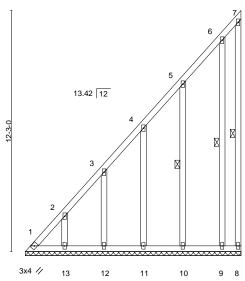
Job Truss Truss Type Qty Lot 129 H4 145382041 210401 LAY2 **GABLE** 3 Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:17:04 2021 Page 1

Wheeler Lumber, Waverly, KS - 66871,

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-fhajP5_wo39cKC01rko2OIYY8JmsyJHdbk1ZjjzX3dj

10-11-8

Scale = 1:58.5



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	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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	0.11	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI	2014	Matri	ix-S						Weight: 79 lb	FT = 10%

LUMBER-

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

BRACING-TOP CHORD

WEBS

except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 7-8, 5-10, 6-9

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

REACTIONS. All bearings 10-11-8.

Max Horz 1=478(LC 8) (lb) -

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 8, 9 except 1=-157(LC 6), 13=-138(LC 8), 12=-135(LC 8),

11=-134(LC 8), 10=-144(LC 8)

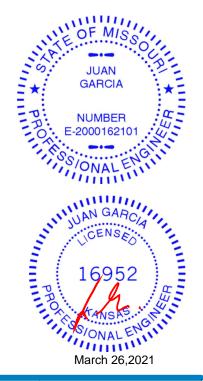
Max Grav All reactions 250 lb or less at joint(s) 8, 13, 12, 11, 10, 9 except 1=491(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-674/272, 2-3=-544/220, 3-4=-406/167, 4-5=-270/119 TOP CHORD

NOTES-

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 100 lb uplift at joint(s) 8, 9 except (jt=lb) 1=157, 13=138, 12=135, 11=134, 10=144.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job Truss Truss Type Qty Ply Lot 129 H4 145382042 210401 LAY3 **GABLE** Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:17:05 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871, ID:yQVeL3JaMLDqBo68G2v5nvznYPw-8t85dR?YZNHSxLbDOSJHxW4kEj62hnsnqOm7F9zX3di 3-3-12 3-3-12 Scale = 1:25.8 4x5 = 3 13.42 12 2x4 || 2x4 || 0-0-4 -0-C 2x4 \\ 2x4 // 2x4 2x4 || 2x4 ||

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

I/defI

n/a

n/a

n/a

(loc)

5

n/a

n/a

0.00

L/d

999

999

n/a

PLATES

Weight: 23 lb

MT20

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

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

GRIP

197/144

FT = 10%

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

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

25.0

10.0

0.0

10.0

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 6-7-7

Max Horz 1=-90(LC 4)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-141(LC 8), 6=-141(LC 9)

2-0-0

1.15

1.15

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 8, 6

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.

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

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

CSI.

TC

ВС

WB

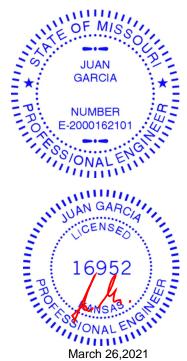
Matrix-P

0.05

0.03

0.03

- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=141.6=141.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





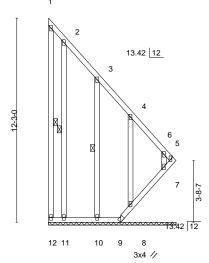
Job	Truss	Truss Type	Qty	Ply	Lot 129 H4	٦
					145382043	
210401	LAY4	GABLE	1	1		
					Job Reference (optional)	

Waverly, KS - 66871, Wheeler Lumber,

8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:17:06 2021 Page 1

Scale = 1:69.1





4-4-0	7-7-12
4-4-0	3-3-12

LOADING	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI20	014	Matri	x-P						Weight: 66 lb	FT = 10%

LUMBER-BRACING-

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

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

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

WEBS 1-12, 2-11, 3-10 1 Row at midpt

REACTIONS. All bearings 7-7-12. Max Horz 12=-340(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12, 11 except 6=-420(LC 7), 9=-417(LC 9), 10=-142(LC 9),

8=-109(LC 9), 7=-366(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 12, 9, 11, 10, 8 except 6=1028(LC 9), 7=261(LC 16)

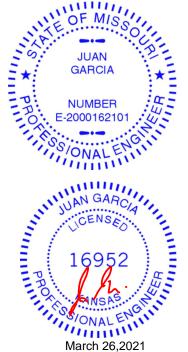
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-4=-266/117, 4-5=-412/170, 5-6=-738/300

BOT CHORD 11-12=-130/340, 10-11=-130/340, 9-10=-130/340, 8-9=-204/548, 7-8=-210/519,

6-7=-210/503 WFBS 5-7=-222/391

- 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
- 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 100 lb uplift at joint(s) 12, 11 except (jt=lb) 6=420, 9=417, 10=142, 8=109, 7=366.
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 8, 7.
- 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 Lot 129 H4 145382044 210401 V1 Valley Job Reference (optional)
8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:17:07 2021 Page 1 Wheeler Lumber, Waverly, KS - 66871,

ID:pq50?Ycap6WpLXoTu4wfY2za1nE-4GFr271o5_XABflcWtMl0xA20Xma9ho3HiFEK2zX3dg

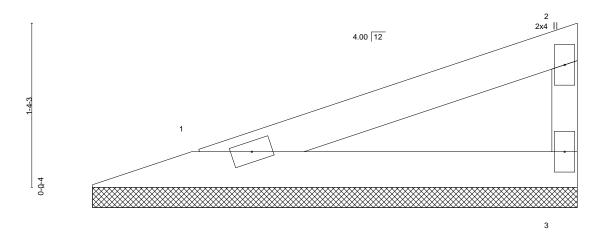
Structural wood sheathing directly applied or 4-0-8 oc purlins,

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

except end verticals.

4-0-8

Scale = 1:9.5



2x4 = 2x4 ||

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf)	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.16	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999	PLATES GRIP MT20 197/144
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	BC 0.09	Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	M120 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 9 lb FT = 10%

LUMBER-

REACTIONS.

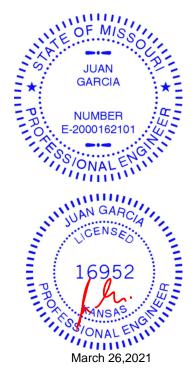
TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

> 1=3-11-12, 3=3-11-12 (size) Max Horz 1=45(LC 5) Max Uplift 1=-22(LC 4), 3=-29(LC 8) Max Grav 1=135(LC 1), 3=135(LC 1)

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

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





Job Truss Truss Type Qty Ply Lot 129 H4 145382045 210401 V2 Valley

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional) 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 26 12:17:08 2021 Page 1

Structural wood sheathing directly applied or 2-6-12 oc purlins,

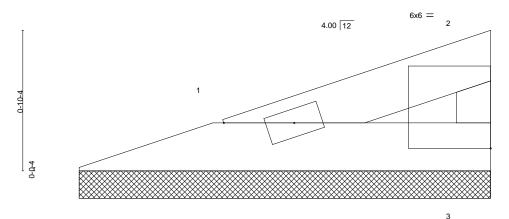
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

ID:yQVeL3JaMLDqBo68G2v5nvznYPw-YSpEFS1Rslf1opKo3at_Z8iFgw7su82DWM?nsUzX3df







2x4 =

Plate Offsets (X,Y) [2:Edge,0-1-14]									
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP						
TCLL 25.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) n/a - n/a 999 MT20 197/144						
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) n/a - n/a 999						
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a						
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P	Weight: 5 lb FT = 10%						

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

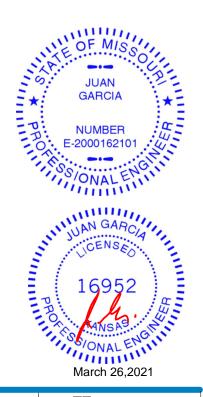
BOT CHORD WEBS 2x3 SPF No.2

REACTIONS. (size) 1=2-6-0, 3=2-6-0 Max Horz 1=23(LC 5)

Max Uplift 1=-11(LC 4), 3=-15(LC 8) Max Grav 1=68(LC 1), 3=68(LC 1)

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

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







Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- ¹/16" from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MiTek® All Rights Reserved



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.

ω

- 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.

Ģ

- 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.

œ

- 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.
- 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.