

04/14/2021

RE: 210361 Lot 87 W0 MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Project Name: 210361

Lot/Block: Model:
Address: Subdivision: 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 85 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	145442739	A5	3/31/2021	21	145442759	D2	3/31/2021
2	145442740	A11	3/31/2021	22	145442760	D3	3/31/2021
3	I45442741	A12	3/31/2021	23	145442761	D4	3/31/2021
4	145442742	A17	3/31/2021	24	145442762	E1	3/31/2021
5	145442743	A18	3/31/2021	25	145442763	E2	3/31/2021
6	145442744	A19	3/31/2021	26	145442764	E3	3/31/2021
7	145442745	A20	3/31/2021	27	145442765	G1	3/31/2021
8	145442746	B1	3/31/2021	28	145442766	G2	3/31/2021
9	145442747	B2	3/31/2021	29	145442767	G3	3/31/2021
10	145442748	B3	3/31/2021	30	145442768	G4	3/31/2021
11	145442749	C10A	3/31/2021	31	145442769	G5	3/31/2021
12	145442750	C11A	3/31/2021	32	145442770	G6	3/31/2021
13	I45442751	C12A	3/31/2021	33	145442771	G7	3/31/2021
14	145442752	C13A	3/31/2021	34	145442772	G8	3/31/2021
15	145442753	C14A	3/31/2021	35	145442773	H1	3/31/2021
16	145442754	C15	3/31/2021	36	145442774	H2	3/31/2021
17	145442755	C16	3/31/2021	37	145442775	J1	3/31/2021
18	145442756	C17	3/31/2021	38	145442776	J2	3/31/2021
19	145442757	C18	3/31/2021	39	145442777	J3	3/31/2021
20	145442758	D1	3/31/2021	40	145442778	J4	3/31/2021

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.





04/14/2021

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

Date

3/31/2021

Site Information:

Project Customer:

RE: 210361 - Lot 87 W0

Project Name: 210361

Lot/Block: Address: Subdivision:

State:

85

City, County:

No.	Seal#	Truss Name

V24

145442823

No.	Seal#	Truss Name	Date
41	145442779	J5	3/31/2021
42	145442780	J6	3/31/2021
43	145442781	J7	3/31/2021
44	145442782	J8	3/31/2021
45	145442783	J9	3/31/2021
46	145442784	J10	3/31/2021
47	145442785	J11	3/31/2021
48	145442786	J12	3/31/2021
49	145442787	J13	3/31/2021
50	145442788	J14	3/31/2021
51	145442789	J15	3/31/2021
52	145442790	J16	3/31/2021
53	145442791	J17	3/31/2021
54	145442792	J18	3/31/2021
55	145442793	J19	3/31/2021
56	145442794	J20	3/31/2021
57	145442795	J21	3/31/2021
58	145442796	J22	3/31/2021
59	145442797	J23	3/31/2021
60	145442798	J24	3/31/2021
61	145442799	J25	3/31/2021
62	145442800	LAY1B	3/31/2021
63	145442801	LAY3	3/31/2021
64	145442802	LAY4	3/31/2021
65	145442803	LAY5	3/31/2021
66	145442804	LAY6	3/31/2021
67	145442805	LAY7	3/31/2021
68	145442806	LAY8	3/31/2021
69	145442807	V6	3/31/2021
70	145442808	V7	3/31/2021
71	145442809	V8	3/31/2021
72	I45442810	V9	3/31/2021
73	I45442811	V10	3/31/2021
74	145442812	V11	3/31/2021
75	I45442813	V12	3/31/2021
76	I45442814	V13	3/31/2021
77	I45442815	V14	3/31/2021
78	I45442816	V15	3/31/2021
79	145442817	V16	3/31/2021
80	I45442818	V19	3/31/2021
81	I45442819	V20	3/31/2021
82	145442820	V21	3/31/2021
83	145442821	V22	3/31/2021
84	145442822	V23	3/31/2021



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10	145442748	B3	3/31/2021	30	145442768	G4	3/31/2021
11	145442749	C10A	3/31/2021	31	145442769	G5	3/31/2021
12	145442750	C11A	3/31/2021	32	145442770	G6	3/31/2021
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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.





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Date

3/31/2021

Site Information:

Project Customer:

RE: 210361 - Lot 87 W0

Project Name: 210361

Lot/Block: Address: Subdivision:

State:

85

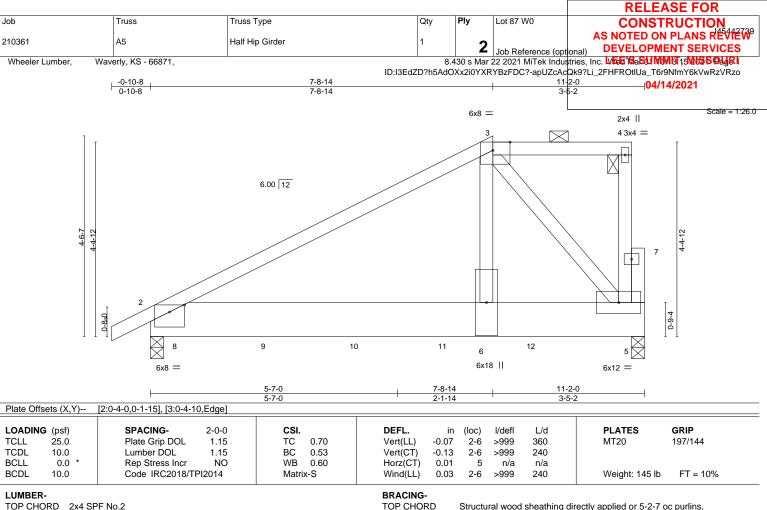
City, County:

No.	Seal#	Truss Name

V24

145442823

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49	145442787	J13	3/31/2021
50	145442788	J14	3/31/2021
51	145442789	J15	3/31/2021
52	145442790	J16	3/31/2021
53	145442791	J17	3/31/2021
54	145442792	J18	3/31/2021
55	145442793	J19	3/31/2021
56	145442794	J20	3/31/2021
57	145442795	J21	3/31/2021
58	145442796	J22	3/31/2021
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66	145442804	LAY6	3/31/2021
67	145442805	LAY7	3/31/2021
68	145442806	LAY8	3/31/2021
69	145442807	V6	3/31/2021
70	145442808	V7	3/31/2021
71	145442809	V8	3/31/2021
72	I45442810	V9	3/31/2021
73	I45442811	V10	3/31/2021
74	I45442812	V11	3/31/2021
75	I45442813	V12	3/31/2021
76	I45442814	V13	3/31/2021
77	I45442815	V14	3/31/2021
78	I45442816	V15	3/31/2021
79	145442817	V16	3/31/2021
80	I45442818	V19	3/31/2021
81	I45442819	V20	3/31/2021
82	145442820	V21	3/31/2021
83	145442821	V22	3/31/2021
84	145442822	V23	3/31/2021



BOT CHORD 2x10 SP DSS WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 **BOT CHORD**

Structural wood sheathing directly applied or 5-2-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc bracing

REACTIONS. (size) 5=0-3-8 (req. 0-3-13), 2=0-3-8 (req. 0-3-10)

Max Horz 2=131(LC 5) Max Uplift 5=-112(LC 5)

Max Grav 5=4878(LC 2), 2=4637(LC 2)

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

TOP CHORD 2-3=-3598/63

BOT CHORD 2-6=-76/3103. 5-6=-76/2921 **WEBS** 3-6=-24/4888, 3-5=-4612/99

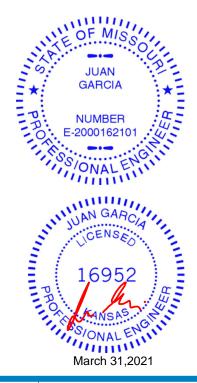
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-3-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) 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) WARNING: Required bearing size at joint(s) 5, 2 greater than input bearing size.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=112
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1444 lb down at 0-8-0, 1442 lb down and 36 lb up at 2-8-0, 1421 lb down and 44 lb up at 4-8-0, 1439 lb down and 46 lb up at 6-8-0, and 1439 lb down and 46 lb up at 8-8-0, and 1447 lb down and 38 lb up at 10-10-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.







Job Truss Truss Type Qty Ply Lot 87 W0 210361 A5 Half Hip Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

| Z Job Reference (optional) | DEVELOPMENT SERVICES | 8.430 s Mar 22 2021 MiTek Industries, Inc. L/TEE '58a831/MMB151/165604/JRLV | ID:13EdZD?h5AdOXx2i0YXRYBzFDC?-apUZcAcQk9?Li_2FHFROtlUa_T6r9NfmY6kVwRzVRzo

04/14/2021

LOAD CASE(S) Standard

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

Waverly, KS - 66871,

Uniform Loads (plf)

Wheeler Lumber,

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

Concentrated Loads (lb)

Vert: 5=-1383(B) 8=-1378(B) 9=-1373(B) 10=-1375(B) 11=-1375(B) 12=-1375(B)

RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 A11 Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SELUMING ON 18 SELUMING ON 18 SELUMING OF Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-lf7IL7Xf8JEC_3a5x_K_eUEXu20ulmit9AHAjnzVRzu 04/14/2021 14-10-8 10-1-8 0-10-8 3-10-8 3-1-8 3-1-8 3-10-8 0-10-8 Scale = 1:26.1

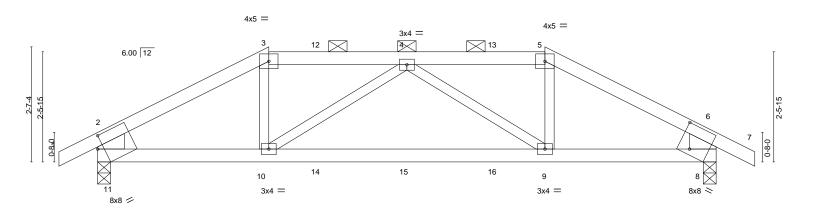


Plate Offsets (X,Y)	3-10-8 3-10-8 [8:0-3-2,0-6-8], [11:0-1-10,0-3-4]	+	10-1-8 6-3-0	+ 14-0-0 3-10-8	<u> </u>
Plate Offsets (A, f)	[8.0-3-2,0-6-6], [11.0-1-10,0-3-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl	L/d PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.74	Vert(LL) -0.11 9-10 >999	360 MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.75	Vert(CT) -0.25 9-10 >651	240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.18	Horz(CT) 0.03 8 n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.09 9-10 >999	240 Weight: 47 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

3-5: 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-11,6-8: 2x8 SP DSS

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

Max Horz 11=49(LC 28)

Max Uplift 11=-241(LC 8), 8=-241(LC 9) Max Grav 11=1034(LC 1), 8=1034(LC 1)

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

TOP CHORD 2-3=-1484/321, 3-4=-1206/304, 4-5=-1206/304, 5-6=-1484/321, 2-11=-953/237,

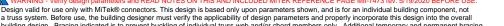
6-8=-953/237

BOT CHORD 10-11=-262/1227, 9-10=-386/1516, 8-9=-236/1227 WEBS 3-10=-54/529, 4-9=-412/185, 5-9=-54/529, 4-10=-412/185

- 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) 11=241. 8=241.
- 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) 77 lb down and 72 lb up at 3-10-8. 84 lb down and 72 lb up at 5-0-0. 84 lb down and 72 lb up at 7-0-0, and 84 lb down and 72 lb up at 9-0-0, and 77 lb down and 72 lb up at 10-1-8 on top chord, and 210 lb down and 75 lb up at 3-10-8, 29 lb down at 5-0-0, 29 lb down at 7-0-0, and 29 lb down at 9-0-0, and 210 lb down and 75 lb up at 10-0-12 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



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



Structural wood sheathing directly applied or 5-0-4 oc purlins,

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

Rigid ceiling directly applied or 9-5-3 oc bracing.

16023 Swingley Ridge Rd Chesterfield, MO 63017

GARCIA

NUMBER

VALENC VA

March 24

-2000162101

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

Job Truss Truss Type Qty Ply Lot 87 W0 210361 A11 Hip Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Litel Massimultios 105 Sealest

ID:13EdZD?h5AdOXx2i0YXRYBzFDC?-lf7IL7Xf8JEC_3a5x_K_eUEXu20ulmit9AHAjnzVRzu

04/14/2021

Waverly, KS - 66871, Wheeler Lumber,

LOAD CASE(S) Standard

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

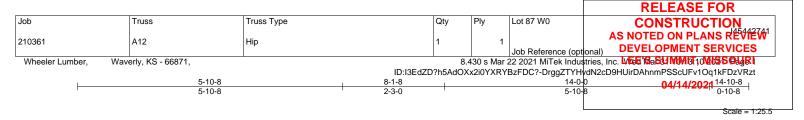
Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-11=-20

Concentrated Loads (lb)

Vert: 3=-42(F) 5=-42(F) 10=-210(F) 9=-210(F) 4=-42(F) 12=-42(F) 13=-42(F) 14=-23(F) 15=-23(F) 16=-23(F)





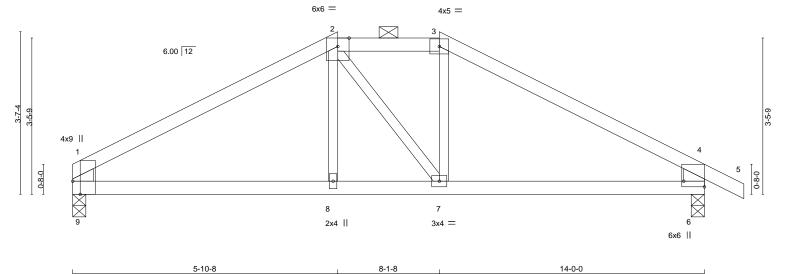


Plate Offs	sets (X,Y)	[1:0-3-8,Edge], [6:Edge,0	0-5-8]									
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.03	`7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.07	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	c-S	Wind(LL)	0.01	7	>999	240	Weight: 44 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 1-9,4-6: 2x6 SPF No.2

REACTIONS. (size) 9=0-3-8, 6=0-3-8

Max Horz 9=-64(LC 4)

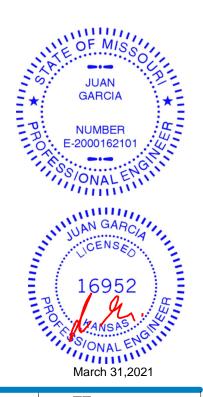
Max Uplift 9=-67(LC 8), 6=-93(LC 9) Max Grav 9=606(LC 1), 6=690(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-805/75, 2-3=-635/112, 3-4=-815/76, 1-9=-531/106, 4-6=-627/136

BOT CHORD 8-9=-28/636, 7-8=-29/635, 6-7=0/638

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



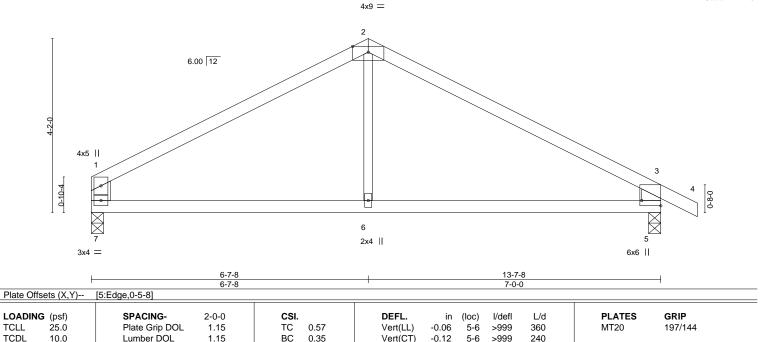
Structural wood sheathing directly applied or 5-10-8 oc purlins,

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

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



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 A17 Common **DEVELOPMENT SERVICES** Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-h2E3mpZvgwVvDNkT2PMSjvKw2soeDhiAdUmHngzVRzs 04/14/2021 6-7-8 6-7-8 7-0-0 Scale = 1:27.6



Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.01

0.04

5

5-6

n/a

>999

except end verticals.

n/a

240

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

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

LUMBER-

BCLL

BCDL

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

0.0

10.0

2-6: 2x3 SPF No.2 REACTIONS. (size) 7=0-3-8, 5=0-3-8

Max Horz 7=-78(LC 4)

Max Uplift 7=-71(LC 8), 5=-100(LC 9) Max Grav 7=589(LC 1), 5=673(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-721/102, 2-3=-730/100, 1-7=-514/114, 3-5=-610/148

Rep Stress Incr

Code IRC2018/TPI2014

6-7=-16/549, 5-6=-16/549 BOT CHORD

WEBS 2-6=0/272

- 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

WB

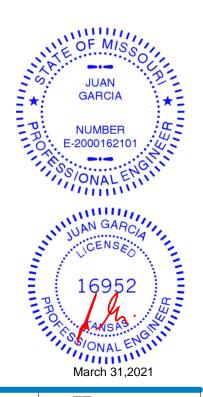
Matrix-R

0.09

3) 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.
- 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.



FT = 10%

Weight: 39 lb



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

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



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 A18 Roof Special Girder 1 **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SELUMINE 12 LIGHT 18 SELUMINE 18 Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-9EoRz9ZXREdmrXJgc7thG6s3RF5Sy0WKs8WrK6zVRzr -0-10-8 0-10-8 14-4-8 17-6-0 04/14/2021 3-10-8 7-1-12 3-4-4 3-1-8 7-0-0

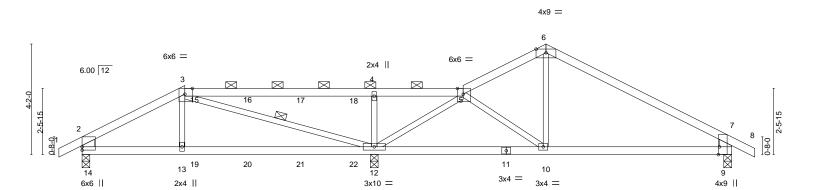


Plate Off	sets (X.Y)	3-10-8 [3:0-3-6,Edge], [5:0-2-10	7-	1-0-4 1-12 -8 Edgel			6-5-12		+	7-0-0	
iate on	3013 (71,1)	[0.0 0 0,Euge], [0.0 2 10	,_ugc], [5.6 5	J							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.09 12-13	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.20 12-13	>633	240		
3CLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.02 9	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	x-S	Wind(LL)	0.05 12-13	>999	240	Weight: 80 lb	FT = 10%

BOT CHORD

WEBS

17.6.0

LUMBER-BRACING-TOP CHORD

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

2x4 SPF No.2

2_10_9

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

2-14,7-9: 2x6 SPF No.2

REACTIONS. (size) 14=0-3-8, 12=0-3-8, 9=0-3-8

Max Horz 14=-69(LC 6)

Max Uplift 14=-200(LC 8), 12=-281(LC 8), 9=-156(LC 30) Max Grav 14=731(LC 1), 12=1500(LC 1), 9=599(LC 1)

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

TOP CHORD 2-3=-1004/273, 3-4=0/305, 4-5=0/303, 5-6=-493/224, 6-7=-586/188, 2-14=-662/190,

7-9=-544/205

BOT CHORD 13-14=-234/832, 12-13=-237/817, 10-12=-217/381, 9-10=-67/422 WEBS 3-13=0/400, 3-12=-1143/239, 4-12=-621/305, 5-12=-626/125

- 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=200, 12=281, 9=156.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 72 lb up at 3-10-8. 92 lb down and 72 lb up at 4-3-0. 92 lb down and 72 lb up at 6-3-0, and 92 lb down and 72 lb up at 8-3-0, and 92 lb down and 72 lb up at 10-3-0 on top chord, and 210 lb down and 75 lb up at 3-10-8, 29 lb down at 4-3-0, 29 lb down at 6-3-0, and 29 lb down at 8-3-0, and 29 lb down at 10-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of
- 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





GARCIA

NUMBER

-2000162101

ONALE

16952

PROMOTER STATE OF THE ST

March 31,2021

Scale = 1:43.5



24-6-0

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

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

3-12

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

1 Row at midpt

Job Truss Truss Type Qty Lot 87 W0 210361 A18 Roof Special Girder

RELEASE FOR

CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LYGE GACUMUNI 13465 CAURY
ID:13EdZD?h5AdOXx2i0YXRYBzFDC?-eQMpBVaACYIdTgusAqOwoKPEBfQhhTmT4oFOSYzVRzq

04/14/2021

Waverly, KS - 66871, Wheeler Lumber,

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 7-8=-70, 9-14=-20

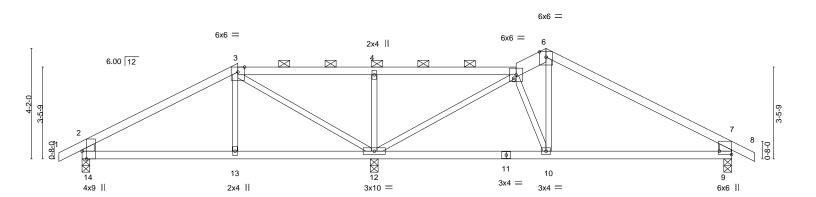
Concentrated Loads (lb)

Vert: 3=-42(F) 13=-210(F) 15=-42(F) 16=-42(F) 17=-42(F) 18=-42(F) 19=-23(F) 20=-23(F) 21=-23(F) 22=-23(F)



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 A19 Roof Special **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMB 3.4655 CAUE. Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-eQMpBVaAQYIdTgusAqOwoKPGNfTEhSCT4oFOsYzVRzq -0-10-8 0-10-8 17-6-0 16-4-8 04/14/2021 5-10-8 5-1-12 5-4-4 1-1-8 7-0-0



		5-10-8	1	11-0-4		I.	17-6-0			1	24-6-0	
		5-10-8		5-1-12			6-5-12			1	7-0-0	
Plate Offset	ts (X,Y) [[9:Edge,0-5-8], [14:0-3-8	,Edge]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.04	. ,	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.09	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	<-S	Wind(LL)	0.02	9-10	>999	240	Weight: 82 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-14,7-9: 2x6 SPF No.2

REACTIONS. (size) 14=0-3-8, 12=0-3-8, 9=0-3-8

Max Horz 14=-69(LC 6)

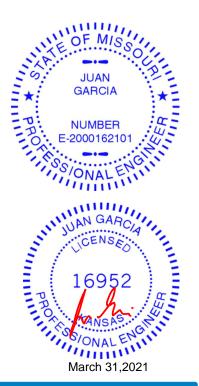
Max Uplift 14=-138(LC 8), 12=-123(LC 8), 9=-147(LC 9) Max Grav 14=531(LC 1), 12=1140(LC 1), 9=647(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-517/159, 5-6=-573/191, 6-7=-696/170, 2-14=-481/175, 7-9=-592/192

BOT CHORD 13-14=-110/378, 12-13=-112/375, 10-12=-88/544, 9-10=-54/523 **WEBS** 3-12=-538/41, 4-12=-418/177, 5-12=-677/20, 6-10=-55/258

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) 14=138, 12=123, 9=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.



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

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

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

Scale = 1:43.5



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

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



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEWS 210361 A20 Half Hip **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMIST AND SERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-6dwBOrbozrtU4qT2jYw9LXyPu3oDQ0bcJS?xO_zVRzp + 10 2/9 4/2021 0-10-8 5-8-8 5-8-8 7-10-8 Scale = 1:30.7

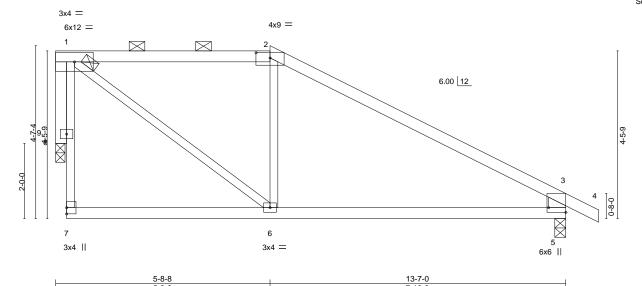


Plate Offsets (X,Y)--[2:0-4-8,0-1-11], [5:Edge,0-5-8] SPACING-GRIP LOADING (psf) CSI. DEFL. in (loc) I/def L/d **PLATES** TCLL 25.0 Plate Grip DOL 1.15 TC 0.66 Vert(LL) -0.08 5-6 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 BC 0.42 Vert(CT) -0.16 5-6 >962 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.20 Horz(CT) 0.07 5 n/a n/a Code IRC2018/TPI2014 FT = 10% **BCDL** 10.0 Wind(LL) >999 240 Weight: 48 lb Matrix-S 0.04 5-6

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD 2x4 SPF No.2 **BOT CHORD** WEBS 2x3 SPF No.2 *Except* 3-5: 2x6 SPF No.2

OTHERS 2x4 SPF No.2

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

Max Horz 9=-143(LC 4)

Max Uplift 5=-110(LC 9), 9=-70(LC 4) Max Grav 5=676(LC 1), 9=568(LC 1)

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

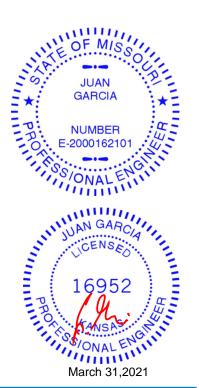
TOP CHORD 1-2=-526/138, 2-3=-705/88, 3-5=-618/169

BOT CHORD 5-6=0/519

1-6=-93/591, 1-9=-574/72 **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) Bearing at joint(s) 9 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) 9 except (jt=lb) 5=110.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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

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



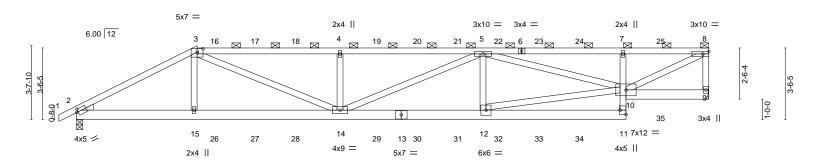
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



RELEASE FOR Job Truss Truss Type Qty Ply Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 В1 Half Hip Girder **DEVELOPMENT SERVICES** Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-_O9iECeI04NwZSmqyN_5VN64Fg4WMiMCE4z9XmzVRzI 31-04/14/2021 4-1-0 -0-10-8 0-10-8 20-0-7 27-1-0 5-11-4 7-0-9 7-0-9 7-0-9



		5-11-4	12-11-	13	20-0-7	1	:	27-1-0	1 31-2-0	
	1	5-11-4	7-0-9	'	7-0-9			7-0-9	4-1-0	1
Plate Offset	ts (X,Y)	[2:0-1-0,0-1-12], [3:0-3	-8,0-2-3], [11:Ed	ge,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 0.76	Vert(LL)	-0.22 12-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.39 12-14	>943	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.67	Horz(CT)	0.06 9	n/a	n/a		
BCDL	10.0	Code IRC2018	TPI2014	Matrix-S	Wind(LL)	0.14 12-14	>999	240	Weight: 292 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

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

3-6: 2x4 SPF 2100F 1.8E 2x6 SPF No.2 *Except*

BOT CHORD 7-11: 2x4 SPF No.2

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=93(LC 5)

Max Uplift 9=-251(LC 5), 2=-240(LC 5) Max Grav 9=2784(LC 1), 2=2715(LC 1)

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

TOP CHORD 2-3=-5119/514, 3-4=-6772/647, 4-5=-6769/646, 5-7=-4328/425, 7-8=-4333/407,

8-9=-2520/294

2-15=-495/4400, 14-15=-497/4369, 12-14=-585/6272, 11-12=-57/892, 10-11=0/290, BOT CHORD 7-10=-702/216

WEBS 3-15=0/691, 3-14=-229/2713, 4-14=-990/291, 5-14=-95/544, 5-12=-501/255,

10-12=-534/5436, 5-10=-2036/154, 8-10=-452/4793

NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

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

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

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

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

- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) 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
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=251, 2=240,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and



GARCIA

NUMBER

-2000162101

ONALE

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

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

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

Scale = 1:56.8

\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



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 87 W0	CONSTRUCTION
210361	B1	Half Hip Girder	1	2	Job Reference (antional)	AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Mar 22 2021 MiTek Industries, Inc. LYGE GASTIMMS 13 VICES CAUSE. ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-_O9iECel04NwZSmqyN_5VN64Fg4WMiMCE4z9XmzVRzI

04/14/2021

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 133 lb down and 72 lb up at 5-11-4, 114 lb down and 72 lb up at 6-9-0, 109 lb down and 72 lb up at 8-9-0, 109 lb down and 72 lb up at 14-9-0, 109 lb down and 14-9-0, 72 lb up at 16-9-0, 109 lb down and 72 lb up at 18-9-0, 109 lb down and 72 lb up at 22-9-0, 109 lb down and 72 lb up at 22-9-0, 109 lb down and 72 lb up at 24-9-0, 109 lb down and 72 lb up at 26-9-0, and 110 lb down and 73 lb up at 28-9-0, and 136 lb down and 67 lb up at 31-0-4 on top chord, and 408 lb down and 116 lb up at 5-11-4, 68 lb down at 6-9-0, 68 lb down at 8-9-0, 68 lb down at 10-9-0, 68 lb down at 12-9-0, 68 lb down at 14-9-0, 68 lb down at 16-9-0, 68 lb down at 16-9-0, 68 lb down at 18-9-0, 68 lb down at 18 down at 20-9-0, 68 lb down at 22-9-0, and 68 lb down at 24-9-0, and 68 lb down at 26-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

NOTES-

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

Uniform Loads (plf)

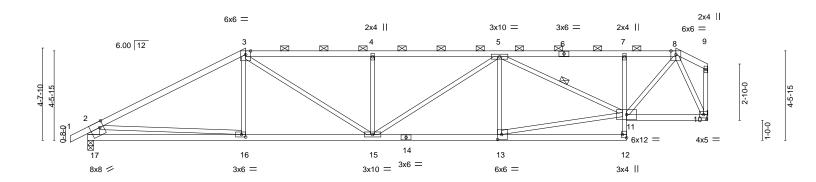
Vert: 1-3=-70, 3-8=-70, 2-11=-20, 9-10=-20

Concentrated Loads (lb)

Vert: 3=-109(F) 8=-136(F) 9=-59 11=-52(F) 7=-109(F) 15=-408(F) 14=-52(F) 4=-109(F) 16=-109(F) 17=-109(F) 18=-109(F) 19=-109(F) 20=-109(F) 21=-109(F) 22=-109(F) 23=-109(F) 24=-109(F) 25=-110(F) 26=-52(F) 27=-52(F) 28=-52(F) 29=-52(F) 30=-52(F) 31=-52(F) 32=-52(F) 33=-52(F) 34=-52(F) 35=-51

RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 B2 Hip **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMB 13 LAGS CAUE. Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-Saj4RYfwnOVnBbL0W5VK2bfCz4S3583MTkii3CzVRzk 29-6-12 **04/14/2021** 2-5-12 1-7-4 20-8-7 -0-10-8 0-10-8 7-11-4 6-4-9 6-4-9 6-4-9



└	7-11-4	14-3-13	20-8-7	27-1-0	31-2-0
	7-11-4	6-4-9	6-4-9	6-4-9	4-1-0
Plate Offsets (X,Y)	[12:Edge,0-2-8], [13:0-2-8,0-3-0)], [16:0-2-8,0-1-8], [17:0-2-4,Ed	ge]		
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0- Plate Grip DOL 1.1 Lumber DOL 1.1	5 TC 0.96 5 BC 0.64	DEFL. in (loc Vert(LL) -0.16 13-1 Vert(CT) -0.31 13-1	5 >999 360 5 >999 240	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YE Code IRC2018/TPI2014		Horz(CT) 0.07 1 Wind(LL) 0.09 13-1	0 n/a n/a 5 >999 240	Weight: 124 lb FT = 10%

TOP CHORD

BOT CHORD

WEBS

LUMBER-BRACING-

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

7-12: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 2-17: 2x8 SP DSS

REACTIONS. (size) 17=0-3-8, 10=Mechanical

Max Horz 17=120(LC 5)

Max Uplift 17=-9(LC 5), 10=-40(LC 5) Max Grav 17=1468(LC 1), 10=1383(LC 1)

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

TOP CHORD 2-3=-2262/61, 3-4=-2578/114, 4-5=-2576/113, 5-7=-1559/87, 7-8=-1566/85,

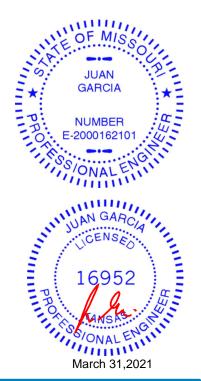
2-17=-1395/52

16-17=-200/921, 15-16=-101/1906, 13-15=-123/2328, 7-11=-398/87, 10-11=-47/590 **BOT CHORD** WEBS

3-15=-95/913, 4-15=-504/116, 5-15=-20/300, 11-13=-127/2226, 5-11=-870/29,

8-11=-77/1569, 2-16=-44/1199, 8-10=-1378/79

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 10.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

5-11

2-0-0 oc purlins (2-8-10 max.): 3-8.

1 Row at midpt

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

Scale = 1:57.9



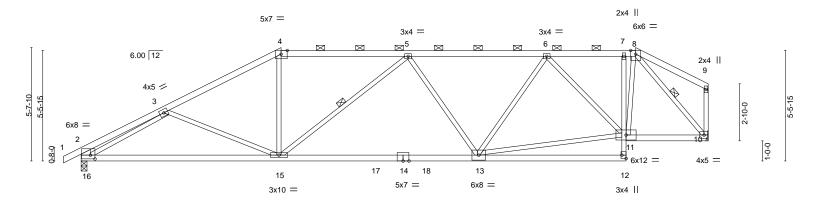
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 **B**3 Hip **DEVELOPMENT SERVICES** Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-wnHSfugZYhdeolwC4o0ZaoCRUUisqYtVhOSGcezVRzj 27-1-0 -0-10-8 0-10-8 27₋6-₋12 31<mark>024914/20</mark>21 4-2-13 5-8-7 6-3-12 6-10-10



	9-11-4	19-8	3-5	27-1-0	31-2-0
ı	9-11-4	9-9	-2	7-4-11	4-1-0
Plate Offsets (X,Y)	[2:0-2-12,0-2-4], [4:0-3-10,Edge], [12:Ed	dge,0-2-8]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in	n (loc) l/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.65		13-15 >999 360	MT20 197/144
CDL 10.0	Lumber DOL 1.15	BC 0.98	Vert(CT) -0.49	13-15 >761 240	
3CLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.08	10 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.07	13-15 >999 240	Weight: 127 lb FT = 10%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

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

14-16: 2x4 SPF 2100F 1.8E, 7-12: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

2-16: 2x6 SPF No.2

(size) 16=0-3-8, 10=Mechanical

Max Horz 16=130(LC 5) Max Uplift 10=-8(LC 4)

Max Grav 16=1509(LC 2), 10=1444(LC 2)

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

TOP CHORD 2-3=-683/0, 3-4=-2211/38, 4-5=-1908/50, 5-6=-2022/48, 6-7=-1200/55, 7-8=-1205/54,

2-16=-465/11

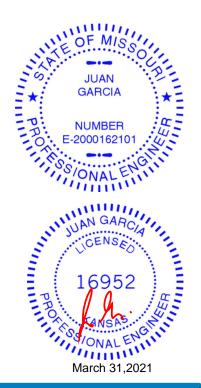
15-16=-133/1997, 13-15=-117/2168, 10-11=-43/1066 **BOT CHORD**

WEBS 4-15=0/628, 5-15=-502/122, 5-13=-351/93, 6-13=0/396, 11-13=-99/1709, 6-11=-929/70,

8-11=-29/1056, 3-16=-1741/86, 8-10=-1630/45

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); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

5-15, 8-10

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

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

2-2-0 oc bracing: 13-15.

1 Row at midpt

Scale = 1:57.3



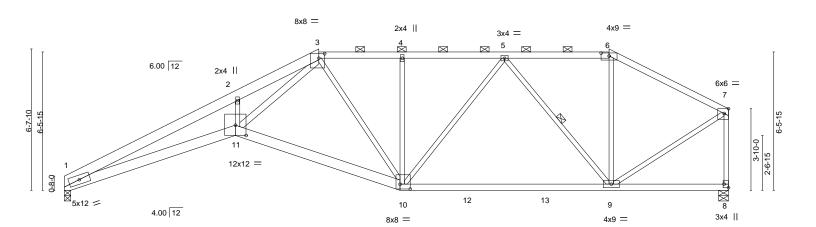
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RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 87 W0 AS NOTED ON PLANS RE 210361 C10A Hip **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18.63 MAR 19.10 19. Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-PzrrsEgBJ?IVQvVOeWYo70kcUu6YZ2Tew1Bp85zVRzi 31-**6**-**4/14/2021** 5-7-4 20-7-14 25-6-12 4-1-6 3-10-14 3-11-0 3-9-12 4-10-14 4-10-14



		8-0-4	1	15-9-0				25-6-	12		1 31-2-0	
		8-0-4	ı	7-8-12	- 1			9-9-1	12		5-7-4	ı
Plate Offset	s (X,Y)	[3:0-3-4,0-2-8], [6:0-4-8,0-1	-11], [7:0-2-	3,Edge], [8:Edge,0-2-8], [10:0-5	-12,0-2-12],	[11:0-6-	0,0-5-1	3]			
TCDL BCLL	25.0 10.0 0.0 *	Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.63 BC 0.76 WB 0.71		DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.44 -0.77 0.39		l/defl >849 >482 n/a	L/d 360 240 n/a	PLATES MT20	GRIP 197/144
BCDL '	10.0	Code IRC2018/TPI2	014	Matrix-S		Wind(LL)	0.26	11	>999	240	Weight: 137 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

1-3: 2x6 SPF 1650F 1.4E

BOT CHORD 2x6 SPF 1650F 1.4E *Except*

10-11: 2x6 SPF No.2, 8-10: 2x4 SPF 2100F 1.8E

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

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

Max Horz 1=184(LC 7)

Max Uplift 1=-144(LC 8), 8=-109(LC 4) Max Grav 1=1448(LC 2), 8=1466(LC 2)

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

TOP CHORD 1-2=-6015/678, 2-3=-5846/750, 3-4=-1874/241, 4-5=-1873/240, 5-6=-1115/157,

6-7=-1309/152, 7-8=-1427/126

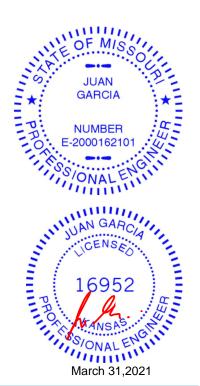
BOT CHORD 1-11=-759/5532, 10-11=-359/2297, 9-10=-264/1622

2-11=-182/271, 3-11=-586/4139, 3-10=-556/128, 4-10=-318/131, 5-10=-28/430, WFBS

5-9=-876/209, 6-9=0/334, 7-9=-123/1324

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=144 8=109
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

except end verticals, and 2-0-0 oc purlins (4-1-14 max.): 3-6.

5-9

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

1 Row at midpt

Scale = 1:54.1



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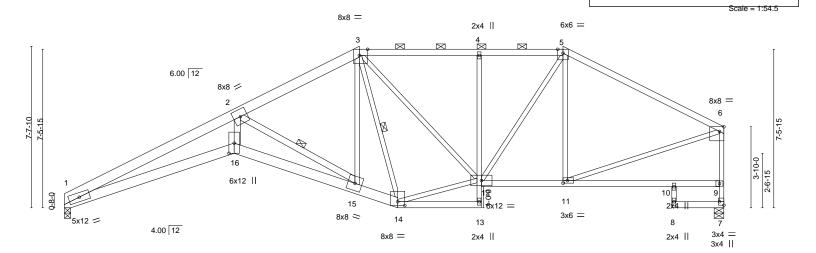


RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 C11A Hip **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMBIZZINGS CAURI Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-t9PD4ahp4JtM234bBD31gDHkPHWNIU?o9hxMgXzVRzh 19-8-8 04/104/1202112-0 15-9-0 23-6-12

1-9-12

5-11-0



3-11-8

3-10-4

		0-0-4		13-11-4	13-3-0	13-0-0	,		20-0-12		20-0-0	31-2-0
		8-0-4	1	5-11-0	1-9-12	3-11-8	3	I	3-10-4	1	5-1-12	2-5-8
Plate Offs	sets (X,Y)	[3:0-4-10,Edge], [6:0-2-8,Ed	ge], [7:Edg	e,0-2-8], [11:0-2-8	0-1-8], [14:	0-4-0,0-2-3], [16:0-5-1	3,0-3-0)]			
LOADING	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.82	:	Vert(LL)	-0.37	16	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC 0.47	·	Vert(CT)	-0.66	16	>558	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.82	:	Horz(CT)	0.40	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matrix-S		Wind(LL)	0.26	16	>999	240	Weight: 163 I	b FT = 10%
											_	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x6 SPF 1650F 1.4E *Except* TOP CHORD

8-0-4

3-5: 2x4 SPF No.2, 5-6: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2 *Except*

1-16,14-16: 2x6 SP DSS, 4-13: 2x3 SPF No.2 2x3 SPF No.2 *Except*

WEBS 2-16,2-15: 2x4 SPF No.2

REACTIONS. (size) 1=0-3-8, 7=0-5-8

Max Horz 1=197(LC 7)

Max Uplift 1=-161(LC 8), 7=-100(LC 9) Max Grav 1=1391(LC 1), 7=1391(LC 1)

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

TOP CHORD 1-2=-5795/706, 2-3=-1951/234, 3-4=-1633/194, 4-5=-1634/196, 5-6=-1556/125,

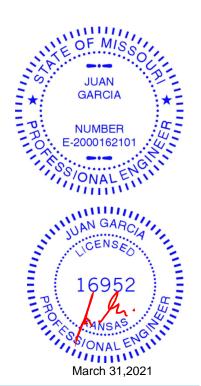
7-9=-1360/113, 6-9=-1316/137

BOT CHORD 1-16=-707/5273, 15-16=-668/4955, 14-15=-219/1775, 4-12=-391/162, 11-12=-133/1299 2-16=-342/3326, 2-15=-3588/638, 3-15=-121/1099, 3-14=-937/151, 12-14=-175/1408, WFBS

3-12=-91/403, 5-12=-146/714, 5-11=-281/119, 6-11=-105/1283

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) 1 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) 7 except (jt=lb) 1=161
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 2-10-4 oc purlins,

2-15, 3-14

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

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

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.

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

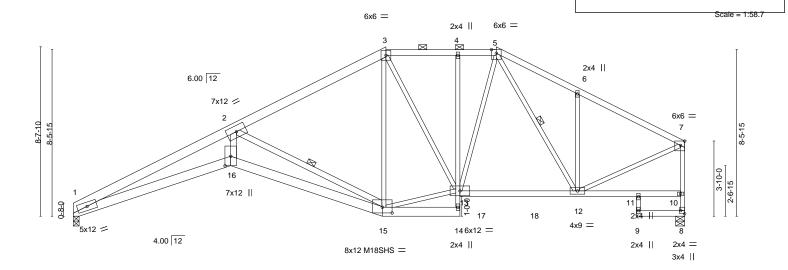


Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 C12A Hip **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMBIZ MISS CAUEL Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-LMzbHwiRrc?CfDfnlxaGCRqtyhqs1w2xOLgwCzzVRzg 19-8-8 21-6-12 25-8-7 28-8-8 304/14/2021

7-11-0

15-9-0



3-9-4

1-10-4

4-1-11

3-0-1

	8-0-4	7-8-12	' 3-11-8 ' 1-10-4 ' 3-6-14	3-6-14 2-5-8
Plate Offsets (X,Y)	[7:0-2-8,Edge], [8:Edge,0-2-8], [15:0-6-	0,0-3-8], [16:0-5-13,0-3-8]		
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 0.96	Vert(LL) -0.41 15-16 >902 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.72 15-16 >514 240	M18SHS 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.43 8 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.29 16 >999 240	Weight: 171 lb FT = 10%

19-8-8

BRACING-

TOP CHORD

BOT CHORD

WEBS

21-6-12

25-1-10

2-0-0 oc purlins (4-8-0 max.): 3-5.

1 Row at midpt

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

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 1-3: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 1-16,15-16: 2x6 SP DSS, 14-15: 2x6 SPF No.2, 4-14: 2x3 SPF No.2

WEBS

8-0-4

2x3 SPF No.2 *Except* 2-16: 2x4 SPF No.2, 2-15: 2x4 SPF 2100F 1.8E

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

Max Horz 1=209(LC 7)

Max Uplift 1=-175(LC 8), 8=-121(LC 9) Max Grav 1=1443(LC 2), 8=1491(LC 2)

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

TOP CHORD $1\hbox{-}2\hbox{--}6047/836, 2\hbox{-}3\hbox{--}1692/226, 3\hbox{-}4\hbox{--}1471/210, 4\hbox{-}5\hbox{--}1476/210, 5\hbox{-}6\hbox{--}1500/245,}$

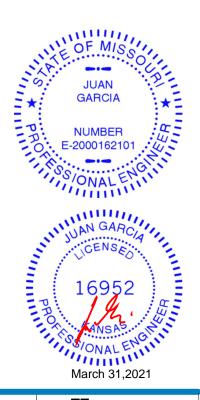
6-7=-1507/132, 8-10=-1448/134, 7-10=-1388/143 **BOT CHORD** 1-16=-849/5570, 15-16=-809/5231, 12-13=-93/1323

2-16=-417/3643, 2-15=-4029/780, 3-15=-49/279, 13-15=-98/1465, 5-13=-76/640, WFBS

6-12=-374/218, 7-12=-64/1393

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 1=175. 8=121. 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



31-2-0

28-8-8

Structural wood sheathing directly applied, except end verticals, and

2-15, 5-12

RELEASE FOR



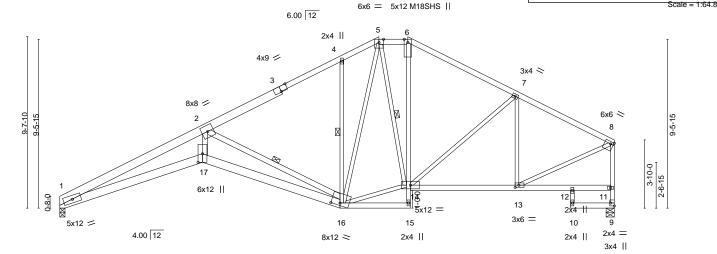
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 C13A Hip **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 1824 163 24 Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-pYXzVFj8cw73HNEzJe5VleM145CxmNx5c?QTIPzVRzf 28-8-8 31-2-0 **04/14/2021** 17-11-4 |19-6-12 25-8-6 8-0-4 7-8-12 2-2-4 1-7-8 6-1-10 3-0-2 2-5-8



		8-0-4		15-9-0	17-11-4 1	9-8-8	25-8-6	28-8-8 31-2-0	
		8-0-4		7-8-12	2-2-4 1	-9-4	5-11-14	3-0-2 2-5-8	
Plate Offse	ets (X,Y)	[3:0-4-8,Edge], [8:0-2-0,0-1-8], [9:Edge,0-2-8], [13:0-2-8,0-1-8], [16:0	0-6-0,0-1-11], [17:0-5-13,0-3-0	0]		
LOADING	(psf)	SPACING- 2	0-0	SI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	.15	C 1.00	Vert(LL)	-0.39 17	>957 360	MT20	197/144
TCDL	10.0	Lumber DOL	.15 E	C 0.46	Vert(CT)	-0.70 16-17	>530 240	M18SHS	197/144
BCLL	0.0 *	Rep Stress Incr	'ES V	VB 0.85	Horz(CT)	0.41 9	n/a n/a		
BCDL	10.0	Code IRC2018/TPI20	14 N	fatrix-S	Wind(LL)	0.31 17	>999 240	Weight: 169 lb	FT = 10%

BOT CHORD

WEBS

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD TOP CHORD 1-3: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 1-17,16-17: 2x6 SP DSS, 6-15: 2x3 SPF No.2

2x3 SPF No.2 *Except* **WEBS** 2-17: 2x4 SPF No.2, 2-16: 2x4 SPF 2100F 1.8E

REACTIONS. (size) 1=0-3-8, 9=0-5-8

Max Horz 1=222(LC 7)

Max Uplift 1=-186(LC 8), 9=-139(LC 9) Max Grav 1=1391(LC 1), 9=1391(LC 1)

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

TOP CHORD 1-2=-5869/931, 2-4=-1626/258, 4-5=-1551/363, 5-6=-1227/242, 6-7=-1475/250,

7-8=-1443/162, 9-11=-1365/153, 8-11=-1342/162

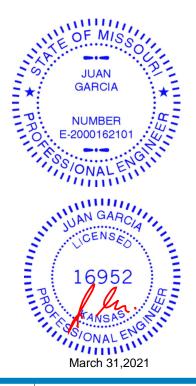
BOT CHORD 1-17=-956/5374, 16-17=-912/5070, 6-14=-53/366, 13-14=-129/1231

2-17=-490/3473, 2-16=-3969/842, 4-16=-391/216, 5-16=-271/636, 7-13=-450/125, WFBS

8-13=-97/1332, 14-16=-52/1243

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) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=186. 9=139.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1. 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-16, 4-16, 5-14

2-0-0 oc purlins (5-1-10 max.): 5-6.

1 Row at midpt

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

RELEASE FOR

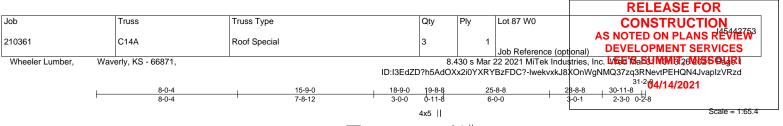


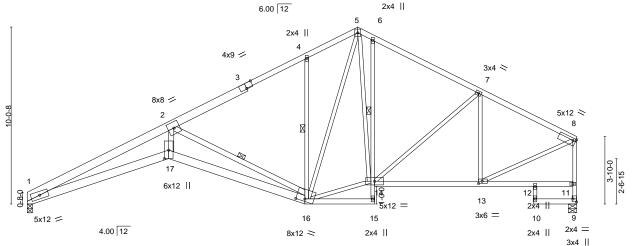
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	8-0-4	15-9-0	₁ 18-9-0 1 ₉ -8-β	25-8-8	28-8-8 31-2-0
	8-0-4	7-8-12	¹ 3-0-0 d-11-8	6-0-0	3-0-1 2-5-8
Plate Offsets (X,Y)	- [3:0-4-8,Edge], [8:0-2-0,0-1-8], [9:	Edge,0-2-8], [13:0-2-8,0-1-8], [16	:0-6-0,0-1-11], [17:0-5-13,0	0-3-0]	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (I	oc) I/defl L	/d PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.99	Vert(LL) -0.39	17 >953 3	60 MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0.70 16	-17 >528 2	40
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Horz(CT) 0.41	9 n/a r	ı/a
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.31	17 >999 2	40 Weight: 170 lb FT = 10%

BOT CHORD

WEBS

1 Row at midpt

1 Row at midpt

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD 1-3: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 1-17,16-17: 2x6 SP DSS, 6-15: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

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

REACTIONS. (size) 1=0-3-8, 9=0-5-8

Max Horz 1=227(LC 7)

Max Uplift 1=-189(LC 8), 9=-145(LC 9) Max Grav 1=1391(LC 1), 9=1391(LC 1)

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

TOP CHORD 1-2=-5873/964, 2-4=-1625/264, 4-5=-1578/384, 5-6=-1425/314, 6-7=-1474/268,

7-8=-1442/174, 9-11=-1365/159, 8-11=-1342/168

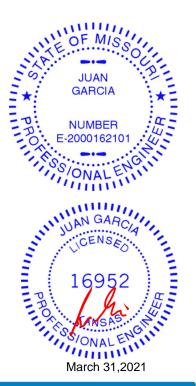
BOT CHORD 1-17=-996/5379, 16-17=-950/5075, 6-14=-328/200, 13-14=-134/1229

2-17=-515/3475, 2-16=-3976/867, 4-16=-434/229, 5-16=-292/722, 5-14=-231/708, WFBS

7-13=-450/127, 8-13=-102/1329, 14-16=-42/1174

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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=189. 9=145.
- 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, except end verticals.

2-16, 4-16

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

6-14



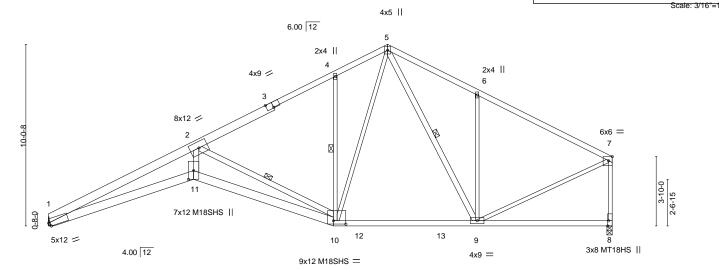
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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 C15 Roof Special 3 **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 1821 MARCH 1827 MISSELLER Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-D7C67HlyvrWe8qyY_meCNH_b_I9QzjXXIze7LkzVRzc 31-2-0 7-5-9 8-0-4 8-0-4 15-9-0 18-9-0 23-8-7 04/14/2021 7-8-12 3-0-0 4-11-7



	0-0-4	1-0-12	7-11-7	7-5-9
Plate Offsets (X,Y)	[1:0-1-4,Edge], [3:0-4-8,Edge], [7:0-2-8	,Edge], [8:0-3-8,Edge], [1	0:0-8-4,0-2-4], [11:0-5-13,0-3-8]	
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.83	DEFL. in (loc) I/defl L/d Vert(LL) -0.43 10-11 >858 360	PLATES GRIP MT20 197/144
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.73 WB 0.93	Vert(CT) -0.75 10-11 >493 240 Horz(CT) 0.41 8 n/a n/a	M18SHS 197/144 MT18HS 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.22 11 >999 240	Weight: 159 lb FT = 10%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

BOT CHORD

TOP CHORD 2x4 SPF No.2 *Except*

1-3: 2x6 SPF 1650F 1.4E 2x6 SP DSS *Except*

8-10: 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

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

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

Max Horz 1=187(LC 7)

Max Uplift 1=-26(LC 8), 8=-1(LC 9) Max Grav 1=1459(LC 2), 8=1476(LC 2)

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

TOP CHORD 1-2=-6257/227, 2-4=-1711/83, 4-5=-1676/160, 5-6=-1452/128, 6-7=-1450/51,

7-8=-1375/34

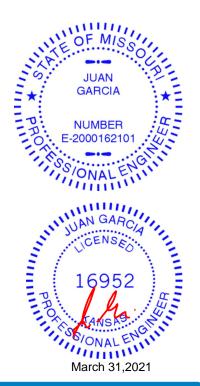
BOT CHORD 1-11=-262/5845, 10-11=-257/5504, 9-10=0/1151

2-11=-61/3865, 2-10=-4276/286, 4-10=-434/135, 5-10=-117/1104, 5-9=-99/334, WFBS

6-9=-525/179, 7-9=0/1321

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied, except end verticals.

2-10, 4-10, 5-9

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

1 Row at midpt



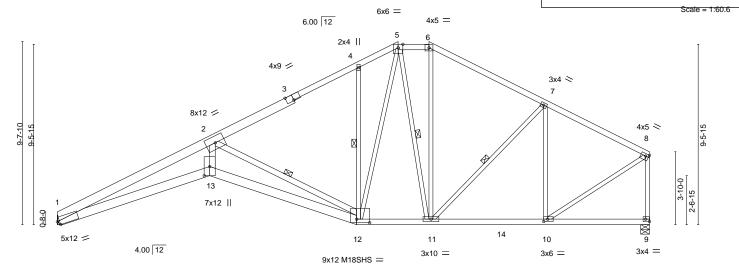
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CONSTRUCTION Job Truss Truss Type Qty Lot 87 W0 AS NOTED ON PLANS RE 210361 C16 Hip **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 1830 MISSOURT Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-eiuElJngBmuD?lh7fvCv_vc7AWEXA4Qz?xtny3zVRzZ 31-2-0 **04/14/2021** 17-11-4 |19-6-12 25-8-7 8-0-4 7-8-12 2-2-4 1-7-8 5-5-9



	8-0-4	15-9-0	19-6-12	25-8-7	31-2-0	
	8-0-4	7-8-12	3-9-12	6-1-11	5-5-9	1
Plate Offsets (X,Y)	[1:0-1-8,0-2-6], [3:0-4-8,Edge], [8:0-2-	-0,0-1-8], [9:Edge,0-1-8], [10:0	-2-8,0-1-8], [12:0-8-4,0	-2-4], [13:0-5-13,0-3-8]		
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 0.77 BC 0.51 WB 0.92 Matrix-S	DEFL. in Vert(LL) -0.42 Vert(CT) -0.75 Horz(CT) 0.41 Wind(LL) 0.22	12-13 >877 360	PLATES MT20 M18SHS Weight: 165 lb	GRIP 197/144 197/144 FT = 10%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except* 1-3: 2x6 SPF 1650F 1.4E

BOT CHORD 2x6 SP DSS *Except* 9-12: 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

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

REACTIONS. (size) 1=Mechanical, 9=0-5-8

Max Horz 1=182(LC 7)

Max Uplift 1=-24(LC 8)

Max Grav 1=1441(LC 2), 9=1462(LC 2)

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

TOP CHORD 1-2=-6130/206, 2-4=-1661/82, 4-5=-1596/149, 5-6=-1151/91, 6-7=-1372/90,

7-8=-1275/36, 8-9=-1386/21

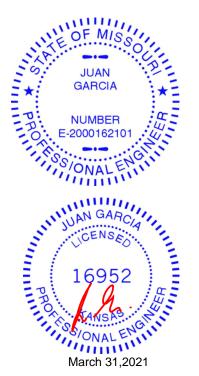
BOT CHORD 1-13=-237/5722, 12-13=-232/5390, 11-12=0/1205, 10-11=0/1091 WFBS

2-13=-43/3803, 2-12=-4214/268, 4-12=-388/130, 5-12=-133/918, 5-11=-374/57,

6-11=-3/378, 7-10=-560/67, 8-10=0/1294

NOTES-

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



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

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

2-12, 4-12, 5-11, 7-11

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

1 Row at midpt

RELEASE FOR



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

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



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW® 210361 C17 Half Hip **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SELUMING 31 MISSELLER Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-6uSdzfoSy404dRGJDcj8X69EUwadvWf7DbcLUVzVRzY 8-0_F14 0-0-10 23-5-6 31-2-0 04/14/2021 8-0-4 7-10-6 7-6-2 7-8-10 6x8 = Scale = 1:55.1 2x4 || 4x9 =3 **4** ⊠ <u>5</u> \bowtie \bowtie \bowtie \boxtimes 6.00 12 8x12 / 8-7-10 8-5-15 8-5-15 2-6-15 7x12 || 0-8-0 6 10 11 5x12 = 7 4.00 12 3x4 II 6x8 8x12 M18SHS = 15-9-0 31-2-0 8-0-4 8-0-4 7-8-12 7-6-2 Plate Offsets (X,Y)--[1:0-1-4,Edge], [8:0-6-0,0-3-8], [9:0-5-13,0-3-8] SPACING-**PLATES GRIP** LOADING (psf) CSI. DEFL. in (loc) I/def L/d TC 197/144 TCLL 25.0 Plate Grip DOL 1.15 0.98 Vert(LL) -0.43 8-9 >868 360 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.52 Vert(CT) -0.74 8-9 >500 240 M18SHS 197/144 **BCLL** 0.0 Rep Stress Incr YES WB 0.98 Horz(CT) 0.41 6 n/a n/a Code IRC2018/TPI2014 240 FT = 10% **BCDL** 10.0 Wind(LL) 0.22 9 >999 Weight: 174 lb Matrix-S LUMBER-**BRACING-**2x6 SPF No.2 *Except* TOP CHORD TOP CHORD Structural wood sheathing directly applied, except end verticals, and 3-5: 2x4 SPF No.2 2-0-0 oc purlins (4-2-9 max.): 3-5. **BOT CHORD** 2x6 SP DSS *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing 6-8: 2x6 SPF No.2 **WEBS** 5-6, 2-8, 3-7 1 Row at midpt **WEBS** 2x4 SPF No.2 *Except* 2-8: 2x4 SPF 2100F 1.8E, 4-7,3-8: 2x3 SPF No.2 REACTIONS. (size) 1=Mechanical, 6=0-5-8 Max Horz 1=268(LC 5) Max Uplift 1=-16(LC 8), 6=-71(LC 5) Max Grav 1=1462(LC 2), 6=1522(LC 2) FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-6177/184, 2-3=-1716/54, 3-4=-1123/45, 4-5=-1122/44, 5-6=-1370/99 **GARCIA** 1-9=-402/5693, 8-9=-388/5347, 7-8=-123/1454 WEBS 2-9=-142/3718, 2-8=-4117/268, 3-7=-518/50, 4-7=-613/149, 5-7=-71/1624, 3-8=0/683 NUMBER 1) Unbalanced roof live loads have been considered for this design. -2000162101

BOT CHORD

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





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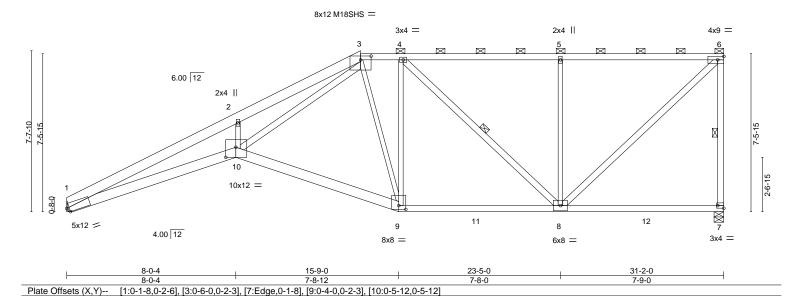
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 C18 Half Hip **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SELUMING 31 MISSELLER Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-6uSdzfoSy#04dRGJDcj8X69HPwWCva17DbcLUVzVRzY 23-5-0 31-2-0 04/14/2021 8-0-4 5-11-0 1-9-12 7-8-0



in (loc)

9-10

9-10

10

1 Row at midpt

-0.44

-0.76

0.40

0.23

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

WEBS

I/def

>848

>487

>999

n/a

L/d

360

240

n/a

240

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

25.0

10.0

10.0

0.0

2x6 SPF 1650F 1.4E *Except* TOP CHORD

3-6: 2x4 SPF No.2 **BOT CHORD** 2x6 SP DSS *Except* 7-9: 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

6-7,4-8,6-8: 2x4 SPF No.2, 3-10: 2x4 SPF 2100F 1.8E

Code IRC2018/TPI2014

REACTIONS. (size) 1=Mechanical, 7=0-5-8

Max Horz 1=204(LC 8)

Max Uplift 7=-61(LC 5)

Max Grav 1=1459(LC 2), 7=1513(LC 2)

SPACING-

Plate Grip DOL

Rep Stress Incr

Lumber DOL

1.15

1.15

YES

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

TOP CHORD 1-2=-6078/200, 2-3=-5947/324, 3-4=-1650/60, 4-5=-1263/49, 5-6=-1263/49,

6-7=-1361/97

BOT CHORD 1-10=-333/5594, 9-10=-83/1844, 8-9=-62/1650

WFBS 2-10=-275/189, 3-10=-341/4487, 3-9=-346/104, 4-8=-533/52, 5-8=-596/141,

6-8=-66/1709

NOTES-

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

CSI.

TC

ВС

WB

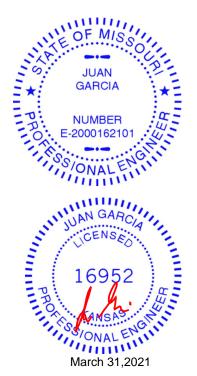
Matrix-S

0.80

0.81

0.77

- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7.
- 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.



PLATES

M18SHS

Weight: 162 lb

MT20

Structural wood sheathing directly applied or 2-9-8 oc purlins,

6-7, 4-8

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

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

GRIP

197/144

197/144

FT = 10%

Scale = 1:54.6

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

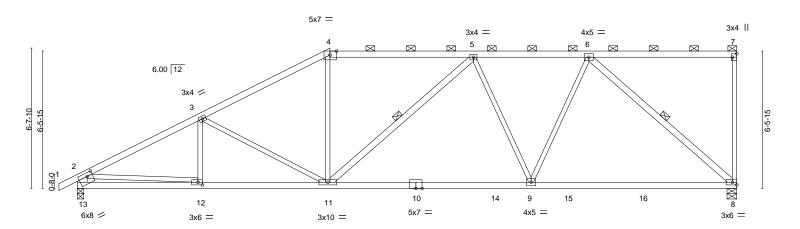
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 D1 Half Hip **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMB 334655 CAURI Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-2HZNNKqjUhGoslQiL1lccXEd1jA0NUDPhv5SZOzVRzW 31-2**04/14/2021** 6-11-14 0-10-8 18-8-10 24-2-2 5-9-9 6-1-10 5-5-7



			11-11-	-4	1	21-5-6			- 1	31-2-0			
	ı	5-9-9	6-1-10	0	1	9-6-2			- 1		9-8-10	ı	
Plate Off	sets (X,Y)	[4:0-3-10,Edge], [7:Edge	,0-2-8], [12:0-	2-8,0-1-8], [13	3:0-3-0,0-2-0	0]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.26	`8-9	>999	360	MT20	197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.46	8-9	>800	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.07	8	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	k-S	Wind(LL)	0.07	9-11	>999	240	Weight: 127 lb	FT = 10%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

8-10: 2x4 SPF 2100F 1.8E

WEBS 2x3 SPF No.2 *Except*

5-11,6-8: 2x4 SPF No.2, 2-13: 2x6 SPF No.2

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

Max Horz 13=266(LC 5)

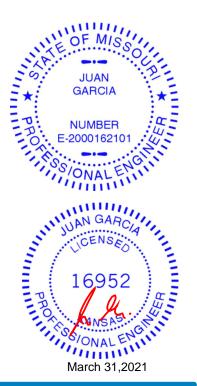
Max Uplift 8=-250(LC 5), 13=-167(LC 8) Max Grav 8=1499(LC 2), 13=1525(LC 2)

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

TOP CHORD $2\text{-}3\text{--}2430/232,\ 3\text{-}4\text{--}2053/221,\ 4\text{-}5\text{--}1765/221,\ 5\text{-}6\text{--}1671/215,\ 2\text{-}13\text{--}1417/198}$ **BOT CHORD** 12-13=-281/586, 11-12=-361/2105, 9-11=-358/1814, 8-9=-288/1324

WEBS 3-11=-411/197, 4-11=0/525, 5-9=-445/162, 6-9=-11/862, 6-8=-1758/317, 2-12=-81/1527

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=250, 13=167.
- 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 3-3-10 oc purlins,

5-11, 6-8

except end verticals, and 2-0-0 oc purlins (3-1-4 max.): 4-7.

Rigid ceiling directly applied or 9-8-7 oc bracing.

1 Row at midpt

Scale = 1:54.5



NOTES-

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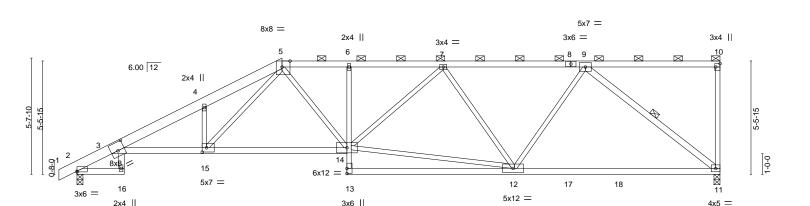
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RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 D2 Half Hip **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Life Gasti MiMital (1964) 155 Out Reference (optional) Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-SsFW0MsbnceMjD8H09JJEAs84xFlaqGsNtK6AjzVRzT 31-2-0 **04/14/2021** 24-7-11 2-3-8 3-10-9 3-9-3 3-1-12 4-8-1 6-10-11 6-6-5



2-3-8 2-3-8	6-2-1 3-10-9	9-11-4 3-9-3	13-1-0 3-1-12	-	21-2-7 8-1-7		+		31-2-0 9-11-9	
Plate Offsets (X,Y)	[2:0-0-0,0-0-7], [3:0-4-0,0			Edge,0-2-8]					3-11-3	
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	BC	0.80 0.65 0.77	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) -0.31 11-12 -0.57 11-12 0.32 11 0.18 14-15	l/defl >999 >649 n/a >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 138 lb	GRIP 197/144 FT = 10%

BOT CHORD

WEBS

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD 1-5: 2x6 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

3-14: 2x4 SPF 2100F 1.8E, 6-13: 2x3 SPF No.2 11-13: 2x4 SPF 2400F 2.0E

2x3 SPF No.2 *Except*

WEBS 3-16,9-11: 2x4 SPF No.2

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

Max Horz 2=220(LC 5)

Max Uplift 11=-253(LC 5), 2=-141(LC 8) Max Grav 11=1459(LC 2), 2=1515(LC 2)

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

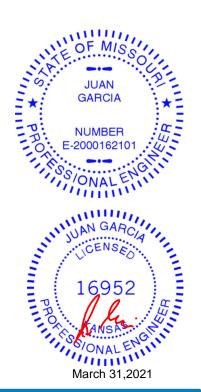
TOP CHORD 2-3=-872/75, 3-4=-3424/398, 4-5=-3648/501, 5-6=-2601/403, 6-7=-2583/402,

7-9=-1924/264

BOT CHORD 3-15=-542/3191, 14-15=-442/2261, 6-14=-262/108, 11-12=-326/1438 5-14=-131/632, 12-14=-427/2193, 7-14=-42/371, 7-12=-781/234, 9-12=-8/867, WEBS

9-11=-1823/364, 4-15=-805/251, 5-15=-232/1397

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 11=253, 2=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.
- 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 3-4-5 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-4-13 max.): 5-10.

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

9-11

6-0-0 oc bracing: 2-16.

1 Row at midpt

Scale = 1:55.8



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

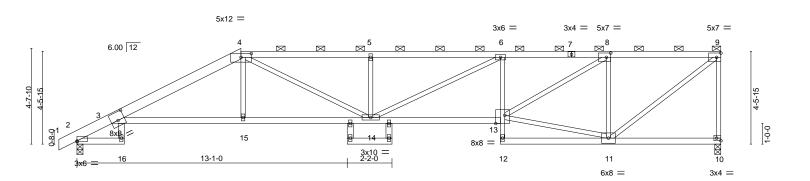
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 D3 Half Hip **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 1838 MINES PUBLIC Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-PENGR2urJDu4yWlg7aLnJbxTMkye2lC9qBpDEbzVRzR 31-2<mark>0</mark>4/14/2021 5-5-4 20-6-0 25-8-12 2-3-8 5-7-12 6-3-6 6-3-6 5-2-12



	2-3-8	7-11-4		14-2-10		20-6-0		2	5-8-12	31-2-0	
	2-3-8	5-7-12	1	6-3-6	ı	6-3-6	1	į	5-2-12	5-5-4	ı.
Plate Offse	ets (X,Y)	[2:0-0-0,0-0-7], [3:0-4-0,0-	4-12], [4:0-6-	0,0-2-3], [8:0	-2-8,0-2-8],	[10:Edge,0-1-8], [1	3:0-5-4,Edge]				
LOADING	i (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.34 13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.64 13-14	>582	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.40 10	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	I2014	Matri	x-S	Wind(LL)	0.28 13-14	>999	240	Weight: 130 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

2x4 SPF No.2 *Except* TOP CHORD 1-4: 2x6 SP 2400F 2.0E

BOT CHORD 2x4 SPF No.2 *Except*

3-13: 2x4 SPF 2100F 1.8E, 6-12: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

3-16,17-19,18-20: 2x4 SPF No.2

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

Max Horz 2=178(LC 5)

Max Uplift 10=-256(LC 5), 2=-141(LC 5) Max Grav 10=1391(LC 1), 2=1474(LC 1)

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

TOP CHORD 2-3=-816/91, 3-4=-2898/428, 4-5=-3405/592, 5-6=-3405/592, 6-8=-3196/568,

8-9=-1513/286, 9-10=-1341/277

BOT CHORD 3-15=-498/2622, 14-15=-496/2628, 13-14=-644/3231, 6-13=-480/168

4-15=0/295, 4-14=-259/1004, 5-14=-469/199, 11-13=-294/1468, 8-13=-381/1957, WFBS

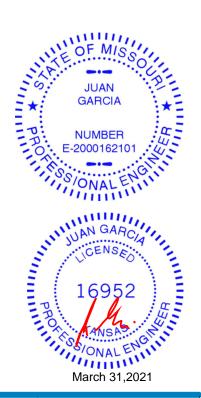
8-11=-1397/363, 9-11=-347/1908

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.

referenced standard ANSI/TPI 1.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=256, 2=141. 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 2-9-12 oc purlins,

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

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

6-0-0 oc bracing: 2-16

9-9-11 oc bracing: 13-14.

Scale = 1:55.8



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

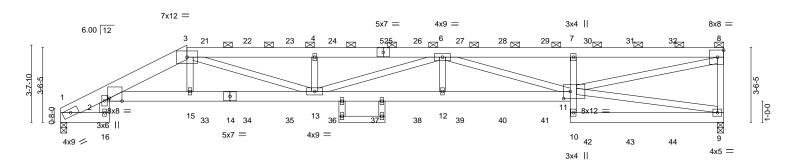
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



RELEASE FOR Job Truss Truss Type Qty Ply Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 D4 Half Hip Girder 2 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMB 42 1455 CAJE I Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-H?cnGPxMNSPWR8cRMQQjTR6BELL0_WpklpnQNNzVRzN 31-2-0 04/14/2021 23-11-8 2-3-8 3-7-12 6-0-1 6-0-1 6-0-1



	2-3-8 2-3-8	5-11-4 3-7-12	11-11-5 6-0-1		17-11-7 6-0-1	23-11-8 6-0-1	+	31-2-0 7-2-8	——
Plate Offs	ets (X,Y)	[2:0-7-2,Edge], [11:0-3-			0-0-1	0-0-1		1-2-0	
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/det	l L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.7	- , ,	-0.33 12-13 >999		MT20	197/144
TCDL BCLL	10.0 0.0 *	Lumber DOL Rep Stress Incr	1.15 NO	BC 0.4 WB 0.8	- '\- '	-0.62 12-13 >602 0.26 9 n/s			
BCDL	10.0	Code IRC2018/	ΓPI2014	Matrix-S	Wind(LL)	0.23 12-13 >999	240	Weight: 406 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

1-3: 2x8 SP DSS

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

7-10,17-18: 2x4 SPF No.2 **WEBS** 2x4 SPF No.2 *Except* 2-16: 2x6 SPF No.2

REACTIONS. (size) 1=0-3-8, 9=0-3-8

Max Horz 1=128(LC 7)

Max Uplift 1=-223(LC 5), 9=-279(LC 5) Max Grav 1=2697(LC 1), 9=2820(LC 1)

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

TOP CHORD 1-2=-1491/137, 2-3=-7563/730, 3-4=-10021/811, 4-6=-10021/811, 6-7=-7254/714,

7-8=-7050/711, 8-9=-2578/371

BOT CHORD 2-15=-771/7150, 13-15=-772/7216, 12-13=-887/10190, 11-12=-887/10190, 10-11=0/267, 7-11=-850/313, 9-10=-13/436

2-16=-19/275, 3-15=-26/850, 3-13=-147/3059, 4-13=-642/239, 6-12=0/499, **WEBS**

6-11=-3097/128, 9-11=-340/31, 8-11=-761/7254

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

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

Webs connected as follows: 2x6 - 2 rows staggered 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 arip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=223, 9=279,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

Continued on page 2





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

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

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

Scale = 1:54.2



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 87 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW
210361	D4	Half Hip Girder	1	2		1
110001		Train risp Girdon			Job Reference (opt	
Wheeler Lumber, Wave	erly, KS - 66871,		8.4	130 s Mar 2	22 2021 MiTek Indus	stries, Inc. LA EE 15 0a SU MIMBT42MISS PAGRI
		ID:I3EdZD?h5/	AdOXx2i0`	YXRYBzF[DC?-H?cnGPxMNSF	WR8cRMQQjTR6BELL0_WpklpnQNNzVRzN
NOTES-						04/14/2021
11) Load case(s) 1, 2, 3, 4,	, 5, 6, 7, 8, 9, 10, 11, 12, 13,	14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26	, 27, 28, 2	29, 30, 31	, 32, 33, 34, 35, 36	
modified. Building design	gner must review loads to ve	rify that they are correct for the intended use of	this truss.			
		a fara ka ka ka a a a	17 1			

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

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 55 lb up at 5-11-4, 109 lb down and 55 lb up at 6-9-0, 111 lb down and 55 lb up at 8-9-0, 111 lb down and 55 lb up at 10-9-0, 111 lb down and 55 lb up at 12-9-0, 111 lb down and 55 lb up at 14-9-0, 116 lb down and 67 lb up at 16-9-0, 116 lb down and 67 lb up at 18-9-0, 116 lb down and 67 lb up at 22-9-0, 116 lb down and 67 lb up at 22-9-0, 116 lb down and 67 lb up at 24-9-0, 116 lb down and 67 lb up at 26-9-0, and 116 lb down and 67 lb up at 28-9-0, and 135 lb down and 64 lb up at 31-0-4 on top chord, and 115 lb down at 14-9-0, 447 lb down and 129 lb up at 5-11-4, 73 lb down at 6-9-0, 73 lb down at 8-9-0, 73 lb down at 10-9-0, 73 lb down at 12-9-0, 68 lb down at 24-9-0, 68 lb down at 26-9-0, and 68 lb down at 28-9-0, and 83 lb down at 31-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

14) Filler applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-70, 3-8=-70, 1-16=-20, 2-11=-20, 9-10=-20

Concentrated Loads (lb)

Vert: 3=-94(B) 8=-135(B) 9=-59(B) 15=-447(B) 21=-94(B) 22=-94(B) 23=-94(B) 24=-94(B) 25=-94(B) 26=-110(B) 27=-110(B) 28=-110(B) 29=-110(B) 30=-109(B) 31=-109(B) 32=-109(B) 33=-73(B) 34=-73(B) 35=-73(B) 36=-73(B) 37=-115(B) 38=-51 39=-51 40=-51 41=-51 42=-52(B) 43=-52(B) 44=-52(B)

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-58, 3-8=-58, 1-16=-20, 2-11=-20, 9-10=-20

Concentrated Loads (lb)

Vert: 3=-79(B) 8=-112(B) 9=-56(B) 15=-383(B) 21=-79(B) 22=-79(B) 23=-79(B) 24=-79(B) 25=-79(B) 26=-92(B) 27=-92(B) 28=-92(B) 29=-92(B) 30=-91(B) 31=-91(B) 32=-91(B) 33=-65(B) 34=-65(B) 35=-65(B) 36=-65(B) 37=-115(B) 38=-48 49=-48 41=-48 42=-48(B) 43=-48(B) 44=-48(B)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-20, 3-8=-20, 1-16=-40, 2-11=-40, 9-10=-40

Concentrated Loads (lb)

Vert: 3=-47(B) 8=-49(B) 9=-83(B) 15=-298(B) 21=-47(B) 22=-47(B) 23=-47(B) 24=-47(B) 25=-47(B) 26=-42(B) 27=-42(B) 28=-42(B) 29=-42(B) 30=-42(B) 31=-42(B) 32=-42(B) 33=-73(B) 34=-73(B) 35=-73(B) 36=-73(B) 37=-115(B) 38=-68 39=-68 40=-68 41=-68 42=-68(B) 43=-68(B) 44=-68(B)

4) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=0, 3-8=29, 1-16=-12, 2-11=-12, 9-10=-12

Horz: 1-3=-12, 8-9=22

Concentrated Loads (lb)

Vert: 3=31(B) 8=40(B) 9=-27(B) 15=109(B) 21=21(B) 22=18(B) 23=18(B) 24=18(B) 25=18(B) 26=30(B) 27=30(B) 28=30(B) 29=30(B) 30=29(B) 31=29(B) 32=29(B) 31=29(B) 32=29(B) 31=29(B) 31=29(B 33=-26(B) 34=-26(B) 35=-26(B) 36=-26(B) 37=-115(B) 38=-22 39=-22 40=-22 41=-22 42=-22(B) 43=-22(B) 44=-22(B)

5) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=13, 3-8=29, 1-16=-12, 2-11=-12, 9-10=-12

Horz: 1-3=-25, 8-9=-17

Concentrated Loads (lb)

Vert: 3=25(B) 8=40(B) 9=-27(B) 15=109(B) 21=19(B) 22=18(B) 23=18(B) 24=18(B) 25=18(B) 26=30(B) 27=30(B) 28=30(B) 29=30(B) 30=29(B) 31=29(B) 32=29(B) 33=-26(B) 34=-26(B) 35=-26(B) 36=-26(B) 37=-115(B) 38=-22 39=-22 40=-22 41=-22 42=-22(B) 43=-22(B) 44=-22(B)

6) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-20, 3-8=9, 1-16=-20, 2-11=-20, 9-10=-20

Horz: 1-3=-0, 8-9=10

Concentrated Loads (lb)

Vert: 3=51(B) 8=52(B) 9=-22(B) 15=129(B) 21=40(B) 22=38(B) 23=38(B) 24=38(B) 25=38(B) 26=50(B) 27=50(B) 28=50(B) 29=50(B) 30=49(B) 31=49(B) 32=49(B) 33=-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 37=-115(B) 38=-14 39=-14 40=-14

41=-14 42=-14(B) 43=-14(B) 44=-14(B)

7) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-7, 3-8=9, 1-16=-20, 2-11=-20, 9-10=-20

Horz: 1-3=-13. 8-9=-28

Concentrated Loads (lb)

Vert: 3=45(B) 8=52(B) 9=-22(B) 15=129(B) 21=39(B) 22=38(B) 23=38(B) 24=38(B) 25=38(B) 26=50(B) 27=50(B) 28=50(B) 29=50(B) 30=49(B) 31=49(B) 32=49(B) 33=-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 37=-115(B) 38=-14 39=-14 40=-14

41=-14 42=-14(B) 43=-14(B) 44=-14(B)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=29, 3-8=11, 1-16=-12, 2-11=-12, 9-10=-12

Horz: 1-3=-41, 8-9=20

Concentrated Loads (lb)

Vert: 3=27(B) 8=51(B) 9=-27(B) 15=109(B) 21=34(B) 22=36(B) 23=36(B) 24=36(B) 25=36(B) 26=48(B) 27=48(B) 28=48(B) 29=48(B) 30=47(B) 31=47(B) 32=47(B) 33=-26(B) 34=-26(B) 35=-26(B) 36=-26(B) 37=-115(B) 38=-22 39=-22 40=-22

41=-22 42=-22(B) 43=-22(B) 44=-22(B)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-3=11, 3-8=11, 1-16=-12, 2-11=-12, 9-10=-12

Horz: 1-3=-23, 8-9=-14





						RELEASE FOR						
Job	Truss	Truss Type	Qty	Ply	Lot 87 W0	CONSTRUCTION						
210361	D4	Half Hip Girder	1	2		AS NOTED ON PLANS RESTERN						
Wheeler Lumber,	Waverly, KS - 66871,					stries, Inc. Wee MacUMMS 42/4/55 Pages						
			ID:I3EdZD?h5AdOX	c2i0YXRYBzF	FDC?-H?cnGPxMNS	PWR8cRMQQjTR6BELL0_WpklpnQNNzVRzN 04/14/2021						
LOAD CASE(S) St Concentrated Loa												
		15=109(B) 21=36(B) 22=36(B) 23=36(B)	24=36(B) 25=36(B) 26=	48(B) 27=48	3(B) 28=48(B) 29=4	8(B) 30=47(B) 31=47(B) 32=47(B)						
		36=-26(B) 37=-115(B) 38=-22 39=-22 40=				-(-) (-) (-)						
		al) 3rd Parallel: Lumber Increase=1.60, Pla	ate Increase=1.60									
Uniform Loads												
	3=29, 3-8=11, 1-16=-1	2, 2-11=-12, 9-10=-12										
Concentrated L	-3=-41, 8-9=20 nads (lh)											
	` '	B) 15=109(B) 21=34(B) 22=36(B) 23=36(B)) 24=36(B) 25=36(B) 26	=48(B) 27=4	18(B) 28=48(B) 29=	48(B) 30=47(B) 31=47(B)						
) 35=-26(B) 36=-26(B) 37=-115(B) 38=-22										
,	*	al) 4th Parallel: Lumber Increase=1.60, Pla	ate Increase=1.60									
Uniform Loads	. ,											
	3=11, 3-8=11, 1-16=-1;	2, 2-11=-12, 9-10=-12										
Concentrated L	=-23, 8-9=-14 ds (lb)											
	, ,	B) 15=109(B) 21=36(B) 22=36(B) 23=36(B)	3) 24=36(B) 25=36(B) 26	=48(B) 27=4	18(B) 28=48(B) 29=	48(B) 30=47(B) 31=47(B)						
32=47(B) 33=-26(B) 34=-26(B) 35=-26(B) 36=-26(B) 37=-115(B) 38=-22	39=-22 40=-22 41=-22	42=-22(B) 4	3=-22(B) 44=-22(B)							
		al) 1st Parallel: Lumber Increase=1.60, Pla	ate Increase=1.60									
	form Loads (plf)											
	Vert: 1-3=9, 3-8=-9, 1-16=-20, 2-11=-20, 9-10=-20 Horz: 1-3=-29, 8-9=8											
Concentrated L	,											
	/ert: 3=47(B) 8=64(B) 9=-22(B) 15=129(B) 21=54(B) 22=55(B) 23=55(B) 24=55(B) 25=55(B) 26=67(B) 27=67(B) 28=67(B) 29=67(B) 30=67(B) 31=67(B)											
	3) 33=-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 37=-115(B) 38=-14 39=-14 40=-14 41=-14 42=-14(B) 43=-14(B) 44=-14(B)											
,	, •	SS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60										
Uniform Loads		lf) =-9, 3-8=-9, 1-16=-20, 2-11=-20, 9-10=-20										
	-3=-9, 5-6=-9, 1-16=-20 -3=-11, 8-9=-26	, 2-11=-20, 9-10=-20										
Concentrated L												
		B) 15=129(B) 21=55(B) 22=55(B) 23=55(B)										
) 35=-18(B) 36=-18(B) 37=-115(B) 38=-14	39=-14 40=-14 41=-14	42=-14(B) 4	3=-14(B) 44=-14(B)							
Uniform Loads		crease=0.90 Plt. metal=0.90										
	. ,	20, 2-11=-20, 9-10=-20										
Concentrated L												
		(B) 15=-194(B) 21=-35(B) 22=-35(B) 23=-3										
		3) 34=-43(B) 35=-43(B) 36=-43(B) 37=-115			12=-37(B) 43=-37(B	i) 44=-37(B)						
Uniform Loads	Froof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60											
	Vert: 1-3=-57, 3-8=-36, 1-16=-20, 2-11=-20, 9-10=-20											
	-3=-0, 8-9=7											
	centrated Loads (lb)											
	Vert: 3=35(B) 8=34(B) 9=-22(B) 15=72(B) 21=27(B) 22=25(B) 23=25(B) 24=25(B) 25=25(B) 26=34(B) 27=34(B) 28=34(B) 29=34(B) 30=33(B) 31=33(B) 32=33(B)											
	33=-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 37=-115(B) 38=-14 49=-14 40=-14 41=-14 42=-14(B) 43=-14(B) 44=-14(B) 44=-14(B) 41=-14 42=-14(B) 42=-14(B) 43=-14(B)											
Uniform Loads												
	Vert: 1-3=-48, 3-8=-36, 1-16=-20, 2-11=-20, 9-10=-20											
	-3=-10, 8-9=-21											
Concentrated L	, ,	2) 45 70(D) 04 00(D) 00 05(D) 00 05(D)	04 05(D) 05 05(D) 00	0.4/5) 07. 04	1/D) 00 01/D)							
	Vert: 3=31(B) 8=34(B) 9=-22(B) 15=72(B) 21=26(B) 22=25(B) 23=25(B) 24=25(B) 25=25(B) 26=34(B) 27=34(B) 28=34(B) 28=34(B) 29=34(B) 30=33(B) 31=33(B) 32=33(B) 33=-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 37=-115(B) 38=-14 49=-14 40=-14											
,	41=-14 42=-14(B) 43=-14(B) 44=-14(B)											
		6 MWFRS Wind (Neg. Int) 1st Parallel): Lur	mber Increase=1.60, Pla	ate Increase:	=1.60							
Uniform Loads												
	ert: 1-3=-36, 3-8=-49, 1-16=-20, 2-11=-20, 9-10=-20											

Concentrated Loads (lb)

Vert: 3=32(B) 8=43(B) 9=-22(B) 15=72(B) 21=37(B) 22=38(B) 23=38(B) 24=38(B) 25=38(B) 26=47(B) 27=47(B) 28=47(B) 29=47(B) 30=47(B) 31=47(B) 32=47(B) 33=-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 37=-115(B) 38=-14 39=-14 40=-14

41=-14 42=-14(B) 43=-14(B) 44=-14(B)

18) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-49, 3-8=-49, 1-16=-20, 2-11=-20, 9-10=-20

Horz: 1-3=-9, 8-9=-19

Concentrated Loads (lb)

Vert: 3=38(B) 8=43(B) 9=-22(B) 15=72(B) 21=38(B) 22=38(B) 23=38(B) 24=38(B) 25=38(B) 26=47(B) 27=47(B) 28=47(B) 29=47(B) 30=47(B) 31=47(B) 32=47(B) 33=-18(B) 34=-18(B) 35=-18(B) 36=-18(B) 37=-115(B) 38=-14 39=-14 40=-14 41=-14 42=-14(B) 43=-14(B) 44=-14(B)

19) Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-16, 3-8=-12, 1-16=-12, 2-11=-12, 9-10=-12

Horz: 1-3=4

Continued on page 4





							RELEASE FOR			
Job	Truss	Truss Type		Qty	Ply	Lot 87 W0	CONSTRUCTION			
210361	D4	Half Hip Girder		1	2		AS NOTED ON PLANS RETTE W			
\A#	W 1 1/0 000				2	Job Reference (d				
Wheeler Lumber,	Waverly, KS - 6687	1,	ID:I3EdZD?h!				dustries, Inc. WEE MaCUMME742WES OUEL ISPWR8cRMQQjTR6BELL0_WpklpnQNNzVRzN			
			ID.IOEGED.III	5/100/1/AE	IOTARTBE	DO: TT: OHO! XIVII	04/14/2021			
LOAD CASE(S)							0 1/1 1/2021			
Concentrated		7/0) 45 77/0) 24 42/0) 22 42/0)	00 40/D) 04 40/D) 05 40/	(D) 20 E	1/D) 07 E4	(D) 20 E4(D) 20	EA(D) 20 EA(D) 24 EA(D) 22 EA(D)			
		6(B) 36=-26(B) 37=-115(B) 38=-22					=51(B) 30=51(B) 31=51(B) 32=51(B)			
		it: Lumber Increase=1.60, Plate Inc		- 22(0) !	0- ZZ(D) 1	I- 22(B)				
Uniform Load		,								
		6=-12, 2-11=-12, 9-10=-12								
Horz Concentrated	:: 8-9=-16									
		7(B) 15=77(B) 21=42(B) 22=42(B)	23=42(B) 24=42(B) 25=42(B) 26=5	1(B) 27=51	(B) 28=51(B) 29=	=51(B) 30=51(B) 31=51(B) 32=51(B)			
		6(B) 36=-26(B) 37=-115(B) 38=-22					0.(2) 00 0.(2) 0. 0.(2) 02 0.(2)			
		Lumber Increase=1.15, Plate Incre	ease=1.15							
Uniform Load										
Concentrated		6=-20, 2-11=-20, 9-10=-20								
		=-59(B) 15=-447(B) 21=-94(B) 22=	-94(B) 23=-94(B) 24=-94(B)	25=-940	B) 26=-110	(B) 27=-110(B) 2	28=-110(B) 29=-110(B) 30=-109(B)			
		73(B) 34=-73(B) 35=-73(B) 36=-7								
		: Lumber Increase=1.15, Plate Incr	ease=1.15							
Uniform Load		2 20 2 44 20 0 40 20								
Concentrated		6=-20, 2-11=-20, 9-10=-20								
		9=-59(B) 15=-447(B) 21=-98(B) 22	=-94(B) 23=-94(B) 24=-94(E	3) 25=-94	4(B) 26=-11	0(B) 27=-110(B)	28=-110(B) 29=-110(B) 30=-109(B)			
		73(B) 34=-73(B) 35=-73(B) 36=-7		51 40=	=-51 41=-51	42=-52(B) 43=-5	52(B) 44=-52(B)			
-,		ced): Lumber Increase=1.15, Plate	Increase=1.15							
Uniform Load		6=-20, 2-11=-20, 9-10=-20								
Concentrate)=-20, 2-11=-20, 9-10=-20								
		=-56(B) 15=-383(B) 21=-79(B) 22=-	-79(B) 23=-79(B) 24=-79(B)	25=-79((B) 26=-92(B) 27=-92(B) 28=	=-92(B) 29=-92(B) 30=-91(B)			
		5(B) 34=-65(B) 35=-65(B) 36=-65(I		48 40=-4	8 41=-48 4	2=-48(B) 43=-48((B) 44=-48(B)			
24) 4th Dead + 0 Uniform Load		ced): Lumber Increase=1.15, Plate	Increase=1.15							
		6=-20, 2-11=-20, 9-10=-20								
Concentrated		, 10,1 10,0 10								
		=-56(B) 15=-383(B) 21=-83(B) 22=-								
		5(B) 34=-65(B) 35=-65(B) 36=-65(I			8 41=-48 4	2=-48(B) 43=-48((B) 44=-48(B)			
Uniform Load		I (Pos. Internal) Left: Lumber Increa	ase=1.60, Plate increase=1	.60						
		12, 2-11=-12, 9-10=-12								
	z: 1-3=-12, 8-9=22									
Concentrated		EE(D) 4E 077(D) 04 400(D) 00	444(D) 00 444(D) 04 4	44(D) 05	444/D) 0/	2 440(D) 07 44	40(P) 00 440(P) 00 440(P)			
		=-55(B) 15=-277(B) 21=-108(B) 22= 116(B) 33=-60(B) 34=-60(B) 35=-								
	()	I (Pos. Internal) Right: Lumber Incre	()	,	700-00 10	- 00 11- 00 12-	00(2) 10= 00(2) 11= 00(2)			
Uniform Load	ds (plf)	, ,								
	, ,	=-12, 2-11=-12, 9-10=-12								
Concentrate	:: 1-3=-25, 8-9=-17									
	3=-104(B) 8=-105(B) 9=-55(B) 15=-277(B) 21=-109(B) 22=-111(B) 23=-111(B) 24=-111(B) 25=-111(B) 26=-116(B)									
		=-116(B) 30=-116(B) 31=-116(B) 32								
		40=-50 41=-50 42=-50(B) 43=-50(B								
27) Reversal: De Uniform Load		(Neg. Internal) Left: Lumber Increa	ase=1.60, Plate Increase=1	.60						
		-20, 2-11=-20, 9-10=-20								
	:: 1-3=-0, 8-9=10	-,,								
Concentrated										
		-50(B) 15=-258(B) 21=-89(B) 22=-9								
	·96(B) 29=-96(B) 30=-9 ·42 41=-42 42=-42(B) 4	6(B) 31=-96(B) 32=-96(B) 33=-52(B) 3=-42(B) 44=-42(B)	D) 34=-02(B) 30=-02(B) 36=	=-S∠(B) 3	r=-115(B)	30=-42 39=-42				
		I (Neg. Internal) Right: Lumber Incr	ease=1.60, Plate Increase=	1.60						

Uniform Loads (plf)

Vert: 1-3=-7, 3-8=9, 1-16=-20, 2-11=-20, 9-10=-20

Horz: 1-3=-13, 8-9=-28

Concentrated Loads (lb)

Vert: 3=-84(B) 8=-93(B) 9=-50(B) 15=-258(B) 21=-90(B) 22=-91(B) 23=-91(B) 24=-91(B) 25=-91(B) 25=-91(B) 26=-96(B) 27=-96(B) 28=-96(B) 29=-96(B) 30=-96(B) 31=-96(B) 32=-96(B) 33=-52(B) 34=-52(B) 35=-52(B) 36=-52(B) 37=-115(B) 38=-42 39=-42 40=-42 41=-42 42=-42(B) 43=-42(B) 44=-42(B)

29) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=29, 3-8=11, 1-16=-12, 2-11=-12, 9-10=-12

Horz: 1-3=-41, 8-9=20

Concentrated Loads (lb)

Vert: 3=-102(B) 8=-94(B) 9=-55(B) 15=-277(B) 21=-95(B) 22=-93(B) 23=-93(B) 24=-93(B) 25=-93(B) 26=-99(B) 27=-99(B) 28=-99(B) 30=-98(B) 31=-98(B) 32=-98(B) 33=-60(B) 34=-60(B) 35=-60(B) 36=-60(B) 37=-115(B) 38=-50 39=-50 40=-50 41=-50 42=-50(B) 43=-50(B) 44=-50(B)

30) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 5





						RELEASE FOR					
Job	Truss	Truss Type	Qty	Ply	Lot 87 W0	CONSTRUCTION					
210361	D4	Half Hip Girder	1			AS NOTED ON PLANS REVIEW					
210301		Tien Tip Girder	'	2		otional) DEVELOPMENT SERVICES					
Wheeler Lumber, Way	verly, KS - 66871,			8.430 s Mar	r 22 2021 MiTek Indu	ustries, Inc. LVES 18aSU MOMBT4214USS OURS					
			ID:I3EdZD?h5AdOX	(2i0YXRYBzF	FDC?-H?cnGPxMNS	PWR8cRMQQjTR6BELL0_WpklpnQNNzVRzN					
LOAD CASE(S) Standar	.d					04/14/2021					
Uniform Loads (plf)	4										
· · · · · · · · · · · · · · · · · · ·	3-8=11, 1-16=-12, 2-11=-12,	9-10=-12									
Horz: 1-3=-23											
Concentrated Loads (,	VD) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		/B) 66 66/5		-(B)(B)(B)					
		(B) 21=-93(B) 22=-93(B) 23=-93(B) 35=-60(B) 36=-60(B) 37=-115(B)									
					12=-50(b) 45=-50(b	s) 44=-30(b)					
Uniform Loads (plf)	ad + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Is (plf)										
Vert: 1-3=29,	3-8=11, 1-16=-12, 2-11=-12,	9-10=-12									
Horz: 1-3=-41											
Concentrated Loads ((7/D) 04 05/D) 00 00/D) 00 00/	D) 04 00/D) 05 0	0/D) 00 00	(D) 07 00(D) 00	00(P) 00 00(P) 00 00(P)					
		7(B) 21=-95(B) 22=-93(B) 23=-93(35=-60(B) 36=-60(B) 37=-115(B)									
) 4th Parallel: Lumber Increase=1.6			+2=-30(B) 43=-30(E	3) 44=-30(B)					
Uniform Loads (plf)	min ito mila (i ooi iiiomai)	Tarranen Zamber mereaet Tre	50, 1 1410 111010400								
,	3-8=11, 1-16=-12, 2-11=-12,	9-10=-12									
Horz: 1-3=-23	•										
Concentrated Loads ((B) 2103(B) 2203(B) 2303(F	1) 2403(R) 2503	(B) 2600(F	3) 2700(R) 280	0(R) 2000(R) 3008(R)					
	=-93(B) 8=-94(B) 9=-55(B) 15=-277(B) 21=-93(B) 22=-93(B) 23=-93(B) 24=-93(B) 25=-93(B) 26=-99(B) 27=-99(B) 28=-99(B) 29=-99(B) 30=-98(B) (6B) 32=-98(B) 33=-60(B) 33=-60(B) 35=-60(B) 35=-										
	10(b) 32=-90(b) 33=-00(b) 34=-00(b) 33=-00(b) 30=-00(b) 37=-113(b) 30=-30 39=-30 40=-30 41=-30 42=-30(b) 43=-30(b) 44=-30(b) 4										
Uniform Loads (plf)											
	3-8=-9, 1-16=-20, 2-11=-20, 9	-10=-20									
Horz: 1-3=-29 Concentrated Loads (
		(B) 21=-75(B) 22=-74(B) 23=-74(B	3) 24=-74(B) 25=-74	(B) 26=-79(E	3) 27=-79(B) 28=-7	9(B) 29=-79(B) 30=-78(B)					
		35=-52(B) 36=-52(B) 37=-115(B)									
	MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.	.60, Plate Increase=	:1.60							
Uniform Loads (plf)	0.0.0.4.40.00.0.44.00	0.40 00									
veπ: 1-3=-9, Horz: 1-3=-11	3-8=-9, 1-16=-20, 2-11=-20, 9	3-10=-20									
Concentrated Loads (
Vert: 3=-74(B	s) 8=-81(B) 9=-50(B) 15=-258	(B) 21=-74(B) 22=-74(B) 23=-74(B	3) 24=-74(B) 25=-74	(B) 26=-79(E	3) 27=-79(B) 28=-7	9(B) 29=-79(B) 30=-78(B)					
	(B) 32=-78(B) 33=-52(B) 34=-52(B) 35=-52(B) 36=-52(B) 37=-115(B) 38=-42 39=-42 40=-42 41=-42 42=-42(B) 43=-42(B) 44=-42(B)										
35) Reversal: Dead + 0.75 Uniform Loads (plf)	5 Roof Live (bal.) + 0.75(0.6 N	MWFRS Wind (Neg. Int) Left): Lum	ber Increase=1.60,	Plate Increa	se=1.60						
· · · · · · · · · · · · · · · · · · ·	Vert: 1-3=-57, 3-8=-36, 1-16=-20, 2-11=-20, 9-10=-20										
	Horz: 1-3=-0, 8-9=7										
Concentrated Loads (ated Loads (lb)										
	ert: 3=-91(B) 8=-126(B) 9=-57(B) 15=-380(B) 21=-99(B) 22=-101(B) 23=-101(B) 24=-101(B) 25=-101(B) 26=-114(B) 27=-114(B) 28=-114(B) 29=-114(B) 2										
	30=-113(B) 31=-113(B) 32=-113(B) 33=-67(B) 34=-67(B) 35=-67(B) 36=-67(B) 37=-115(B) 38=-49 39=-49 40=-49 41=-49 42=-50(B) 43=-50(B) 44=-50(B)										
Uniform Loads (plf)	rsal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 rm Loads (plf)										
- · · · · · · · · · · · · · · · · · · ·	Vert: 1-3=48, 3-8=-36, 1-16=-20, 2-11=-20, 9-10=-20										
Horz: 1-3=-10											
Concentrated Loads ((C)(D) 04 400(D) 00 404(D) 00 4	104/D) 04 404/D) 0	- 404(D) 0	· · · · · · · · · · · · · · · · · · ·						
	Vert: 3=-95(B) 8=-126(B) 9=-57(B) 15=-380(B) 21=-100(B) 22=-101(B) 23=-101(B) 24=-101(B) 25=-101(B) 26=-114(B) 29=-114(B) 30=-113(B) 31=-113(B) 32=-113(B) 33=-67(B) 34=-67(B) 35=-67(B) 36=-67(B)										
		13(B) 31=113(B) 32=113(B) 33=1 142=-50(B) 43=-50(B) 44=-50(B)	·07(D) 34=-07(D) 33	07 (D) 30_	-07 (B)						
	versal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate										
Increase=1.60											
Uniform Loads (plf)	5, 3-8=-49, 1-16=-20, 2-11=-20	0 0 10- 20									
Vert: 1-3=-30 Horz: 1-3=-22		J, 9-10=-20									

Concentrated Loads (lb)

Vert: 3=-94(B) 8=-118(B) 9=-57(B) 15=-380(B) 21=-89(B) 22=-88(B) 23=-88(B) 24=-88(B) 25=-88(B) 26=-101(B) 27=-101(B) 28=-101(B) 29=-101(B) 30=-100(B) 31=-100(B) 32=-100(B) 33=-67(B) 34=-67(B) 35=-67(B) 36=-67(B)

37=-115(B) 38=-49 39=-49 40=-49 41=-49 42=-50(B) 43=-50(B) 44=-50(B)

38) Reversal: Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate

Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-49, 3-8=-49, 1-16=-20, 2-11=-20, 9-10=-20

Horz: 1-3=-9, 8-9=-19

Concentrated Loads (lb)

Vert: 3=-88(B) 8=-118(B) 9=-57(B) 15=-380(B) 21=-88(B) 22=-88(B) 23=-88(B) 24=-88(B) 25=-88(B) 26=-101(B) 27=-101(B) 28=-101(B) 29=-101(B) 30=-100(B) 31=-100(B) 32=-100(B) 33=-67(B) 34=-67(B) 35=-67(B) 36=-67(B)

37=-115(B) 38=-49 39=-49 40=-49 41=-49 42=-50(B) 43=-50(B) 44=-50(B) 39) Reversal: Dead + 0.6 MWFRS Wind Min. Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-16, 3-8=-12, 1-16=-12, 2-11=-12, 9-10=-12

Horz: 1-3=4





Lot 87 W0 Job Truss Truss Type Qty Ply D4 210361 Half Hip Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

3 Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Mar 22 2021 MiTek Industries, Inc. WES SACH MIMBE 2015 01486

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-H?cnGPxMNSPWR8cRMQQjTR6BELL0_WpklpnQNNzVRzN

04/14/2021

LOAD CASE(S) Standard

Wheeler Lumber,

Concentrated Loads (lb)

Vert: 3=-52(B) 8=-60(B) 9=-52(B) 15=-238(B) 21=-53(B) 22=-53(B) 23=-53(B) 24=-53(B) 25=-53(B) 26=-56(B) 27=-56(B) 28=-56(B) 29=-56(B) 31=-56(B) 31=-56(B) 32=-56(B) 33=-54(B) 35=-54(B) 36=-54(B) 37=-115(B) 38=-47 39=-47 40=-47 41=-47 42=-47(B) 43=-47(B) 44=-47(B)

40) Reversal: Dead + 0.6 MWFRS Wind Min. Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-12, 3-8=-12, 1-16=-12, 2-11=-12, 9-10=-12

Waverly, KS - 66871,

Horz: 8-9=-16

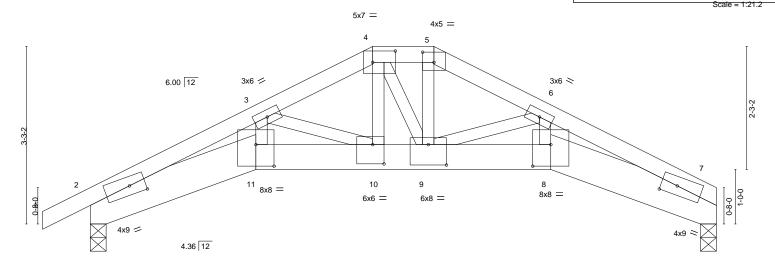
Concentrated Loads (lb)

Vert: 3=-53(B) 8=-60(B) 9=-52(B) 15=-238(B) 21=-53(B) 22=-53(B) 23=-53(B) 25=-53(B) 25 31=-56(B) 32=-56(B) 33=-54(B) 34=-54(B) 35=-54(B) 36=-54(B) 37=-115(B) 38=-47 49=-47 40=-47 41=-47 42=-47(B) 43=-47(B) 44=-47(B)

RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 E1 Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SELUMING 43 LI Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-ICA9UIx_7mXN3IBdw7xy0efNDlb0j6iu_TW_wpzVRzM 11-6-0 04/14/2021 6-3-12 8-5-8 2-1-12 0-10-8 3-0-8 1-1-8 2-1-12 3-0-8



	3-0-8	5-2-4	6-3-12	8-5-8	11-6-0	ı
	3-0-8	2-1-12	1-1-8	2-1-12	3-0-8	I
Plate Offsets (X,Y)	[2:0-3-8,0-2-0], [4:0-5-0,0-2-8], [5:0-2-8	3,0-2-4], [7:0-3-8,0-2-0], [8:0-	4-0,0-4-12], [9:0)-4-0,0-4-8], [10:0-2-8,0-4-4],	11:0-4-0,0-4-12]	
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 0.62 BC 0.87 WB 0.27 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT) Wind(LL)	in (loc) I/defl L/0.09 10 >999 360 -0.17 10-11 >800 244 0.13 7 n/a n/. 0.08 10-11 >999 240	0 MT20 197/144 0 a	9%

TOP CHORD

BOT CHORD

LUMBER- BRACING-

TOP CHORD 2x4 SPF No.2 BOT CHORD 2x8 SP DSS *Except*

8-11: 2x6 SPF No.2

WEBS 2x3 SPF No.2

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

Max Horz 2=57(LC 12)

Max Uplift 7=-221(LC 9), 2=-246(LC 8) Max Grav 7=974(LC 1), 2=1051(LC 1)

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

TOP CHORD 2-3=-3131/747, 3-4=-2251/573, 4-5=-2097/534, 5-6=-2307/578, 6-7=-3145/700 BOT CHORD 2-11=-674/2734, 10-11=-623/2523, 9-10=-472/2040, 8-9=-541/2546, 7-8=-583/2753 WEBS 3-11=-130/687, 3-10=-563/173, 4-10=-155/678, 5-9=-161/792, 6-9=-534/155,

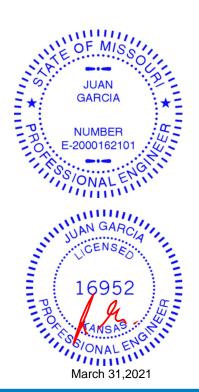
6-8=-97/649

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
- 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) 7, 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) 7=221, 2=246.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 95 lb up at 5-2-4, and 109 lb down and 95 lb up at 6-3-12 on top chord, and 336 lb down and 119 lb up at 5-2-4, and 355 lb down and 124 lb
- up at 6-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

LOAD CASE(S) Standard



Structural wood sheathing directly applied or 3-0-6 oc purlins, except

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

Rigid ceiling directly applied or 9-2-7 oc bracing.

Continued on page 2

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

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

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



Job Truss Truss Type Qty Ply Lot 87 W0 E1 210361 Hip Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

| Job Reference (optional) | DEVELOPMENT SERVICES | 8.430 s Mar 22 2021 MiTek Industries, Inc. | MEE Gast MIME 44/8/55 PAGE | ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-DOkXh5ycu3fEhRmpUrSBZsBYy9xFSZx1D6GXSFzVRzL

04/14/2021

Waverly, KS - 66871, Wheeler Lumber,

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-5=-70, 5-7=-70, 2-11=-20, 8-11=-20, 7-8=-20

Concentrated Loads (lb)

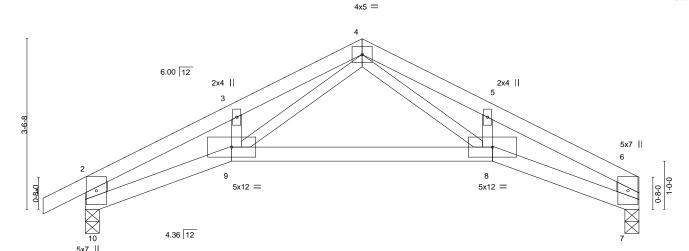
Vert: 4=-86(F) 5=-86(F) 10=-377(F=-336) 9=-396(F=-355)



RELEASE FOR Job Truss Truss Type Qty Ply Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 E2 Roof Special **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SELUMING 45 MITER 18 SELUMING 45 MITER 18 SELUMING Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-ialvvRzEfNn5lbK02YzQ53kh_ZJoB2wARm?4_izVRzK 8-5-8 04/14/2021 0-10-8 3-0-8 2-8-8 2-8-8 3-0-8



-	3-0-8	1						
LOADING (psf)	SPACING- 2-0-0	CSI. D	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.73 V	/ert(LL) -0.12	8-9	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.66 V	/ert(CT) -0.25	8-9	>523	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16 H	lorz(CT) 0.14	7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S V	Vind(LL) 0.08	8-9	>999	240	Weight: 38 lb	FT = 10%

BOT CHORD

11-6-0

except end verticals.

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

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

LUMBER-BRACING-2x4 SPF No 2 TOP CHORD

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

2-10,6-7: 2x6 SP DSS

(size) 10=0-3-8, 7=0-3-8 Max Horz 10=65(LC 5)

Max Uplift 10=-87(LC 8), 7=-60(LC 9) Max Grav 10=578(LC 1), 7=493(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1188/145, 3-4=-1053/213, 4-5=-1057/192, 5-6=-1172/116, 2-10=-830/139,

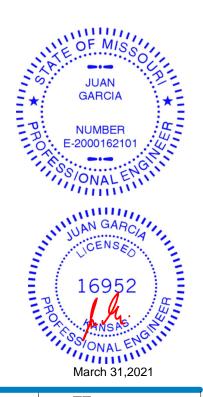
6-7=-718/93

9-10=-136/1000, 8-9=-36/595, 7-8=-78/990 BOT CHORD

WEBS 4-8=-122/471, 4-9=-132/459

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 7.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Scale: 1/2"=1

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

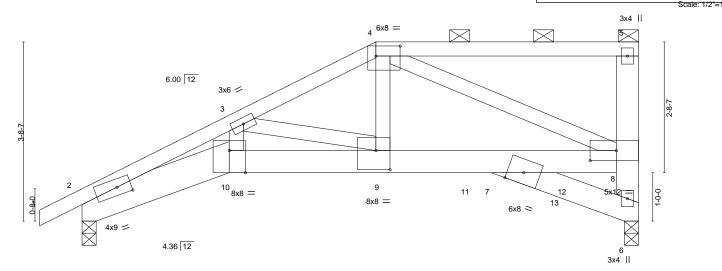
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



RELEASE FOR Job Truss Truss Type Qty Ply Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 E3 Half Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Life Gasti Mimble 4 1055 Out R Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-AnsH6n_sQhvywlvCbGUfeHHsNziuwNxKgQleW8zVRzJ 8-5-8 04/14/2021 0-10-8 3-0-8 3-0-6 2-4-10



	3-0-8	0-0-14	0-3-0	11-0-0	
	3-0-8	3-0-6	2-4-10	3-0-8	ı
Plate Offsets (X,Y)	[2:0-3-8,0-2-0], [4:0-6-0,0-2-8], [8:0-6-8,0	0-2-8], [9:0-3-8,0-4-12], [10:0-4-0,Edge	e]		
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL	. in (loc) I/defl L/e	d PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.75 Vert(L	L) -0.09 9-10 >999 360	0 MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.48 Vert(C	T) -0.17 9-10 >792 240	0	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.69 Horz(0	CT) 0.12 6 n/a n/a	a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S Wind(LL) 0.06 9-10 >999 240	Weight: 138 lb	FT = 10%
		,	·	9	

BOT CHORD

6-0-14

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x6 SP 2400F 2.0E *Except*

2-10: 2x8 SP DSS

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

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

Max Horz 2=142(LC 7)

Max Uplift 6=-486(LC 5), 2=-249(LC 8) Max Grav 6=4134(LC 1), 2=2382(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-7929/779, 3-4=-6105/563, 4-5=-551/87, 6-8=-3809/476 **BOT CHORD** 2-10=-777/6987, 9-10=-714/6435, 7-9=-598/5750, 7-8=-589/5791 **WEBS** 3-10=-153/1551, 3-9=-1029/213, 4-9=-393/4732, 4-8=-5693/536

NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc, 2x6 - 2 rows staggered at 0-4-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Wind: ASCE 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
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 6, 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) 6=486, 2=249,
- 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) 2764 lb down and 271 lb up at 6-0-13, and 1363 lb down and 60 lb up at 8-0-0, and 1370 lb down and 246 lb up at 10-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on page 2

LOAD CASE(S) Standard

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

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ANSI/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

GARCIA

NUMBER

E-2000162101

ONALE

16952

March 31,2021

March 31,2021

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

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

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

Job Truss Truss Type Qty Ply Lot 87 W0 E3 210361 Half Hip Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW

DEVELOPMENT SERVICES

| 2 | Job Reference (opt onal) | DEVELOPMENT SERVICES | 8.430 s Mar 22 2021 MiTek Industries, Inc. | LIGHT GASTIMME 4015 SEATH | ID:13EdZD?h5AdOXx2i0YXRYBzFDC?-AnsH6n_sQhvywlvCbGUfeHHsNziuwNxKgQleW8zVRzJ

04/14/2021

LOAD CASE(S) Standard 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Wheeler Lumber,

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

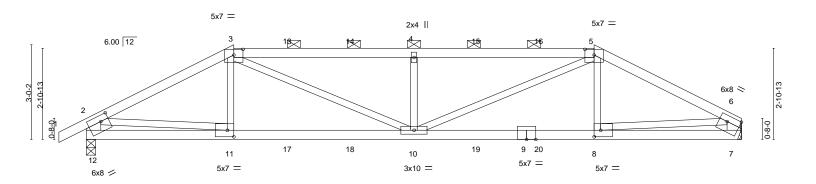
Concentrated Loads (lb)

Vert: 9=-2764(B) 11=-1363(B) 12=-1316(B)

Waverly, KS - 66871,



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEWS 210361 G1 Hip Girder 1 | Job Reference (optional) | DEVELOPMENT SERVICES | 8.430 s Mar 22 2021 MiTek Industries, Inc. | VIEE Mac | MiMbl4/MUSS CAURIL **DEVELOPMENT SERVICES** Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-ezPgJ7?VB_1pYvUO9z?uAUp4IMzXfquTv4UB3azVRzI 0-10-8 20-1**04/14/2021** 4-8-4 16-1-12 4-8-4 5-8-12 5-8-12



		4-8-4		10-5	5-0			16-1-	12		20-10-0	
	ı	4-8-4	ı	5-8-	12	ı		5-8-1	12		4-8-4	
Plate Offs	sets (X,Y)	[3:0-3-8,0-2-3], [5:0-3-8,0)-2-3], [6:Edg	e,0-2-4], [8:0-2	2-8,0-2-8], [11:0-2-8,0-2-8], [12	:0-3-0,0	-2-4]				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.13	10	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.26	8-10	>953	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matrix	x-S	Wind(LL)	0.10	10	>999	240	Weight: 73 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

2x4 SPF No.2 *Except* TOP CHORD

3-5: 2x4 SPF 2100F 1.8E

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

2-12,6-7: 2x6 SPF No.2

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

Max Horz 12=57(LC 7)

Max Uplift 12=-227(LC 8), 7=-201(LC 9) Max Grav 12=1603(LC 1), 7=1521(LC 1)

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

TOP CHORD 2-3=-2586/358, 3-4=-3301/471, 4-5=-3301/471, 5-6=-2590/357, 2-12=-1554/244,

6-7=-1471/218

BOT CHORD 11-12=-155/477, 10-11=-320/2242, 8-10=-286/2255, 7-8=-96/401

WEBS 3-11=0/294, 3-10=-185/1217, 4-10=-744/259, 5-10=-184/1209, 5-8=0/288,

2-11=-257/1813, 6-8=-261/1873

- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=227, 7=201.
- 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/TPL1
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 55 lb up at 4-8-4, 97 lb down and 55 lb up at 6-5-0, 97 lb down and 55 lb up at 8-5-0, 97 lb down and 55 lb up at 10-5-0, 97 lb down and 55 lb up at 12-5-0, and 97 lb down and 55 lb up at 14-5-0, and 92 lb down and 55 lb up at 16-1-12 on top chord, and 279 lb down and 82 lb up at 4-8-4, 44 lb down at 6-5-0, 44 lb down at 8-5-0, 44 lb down at 10-5-0, 44 lb down at 12-5-0, and 44 lb down at 14-5-0 , and 279 lb down and 82 lb up at 16-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2 LOAD CASE(S) Standard

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

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



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

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

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

Scale = 1:36.6



Job Truss Truss Type Qty Lot 87 W0 G1 210361 Hip Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEWS **DEVELOPMENT SERVICES**

Waverly, KS - 66871, Wheeler Lumber,

| Job Reference (optional) | DEVELOPMENT SERVICES | 8.430 s Mar 22 2021 MiTek Industries, Inc. LATEL TO BE SUMMING 484055 PAURE | ID:13EdZD?h5AdOXx2i0YXRYBzFDC?-69z2XT | 77yl9f933bjhX7jiMF2mJmOH8d7kEkb0zVRzH

04/14/2021

LOAD CASE(S) Standard

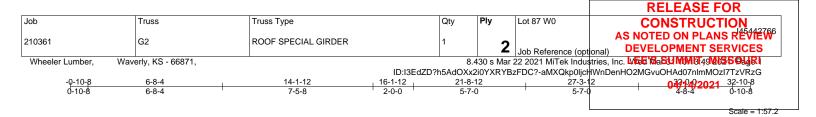
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

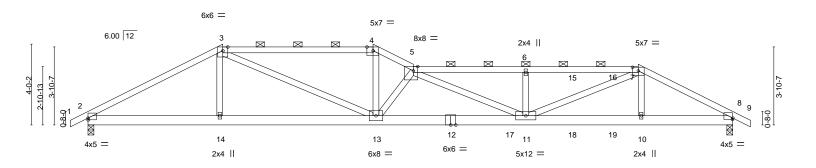
Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 7-12=-20

Concentrated Loads (lb)

Vert: 3=-69(F) 5=-69(F) 11=-279(F) 10=-35(F) 4=-69(F) 8=-279(F) 13=-69(F) 14=-69(F) 15=-69(F) 16=-69(F) 17=-35(F) 18=-35(F) 19=-35(F) 20=-35(F)







		6-8-4		14-1-12		-12	21-8-12		27-3-12	32-0	
	ı	6-8-4	l .	7-5-8	1 2-0)-0 '	5-7-0	1	5-7-0	4-8	-4
Plate Offs	ets (X,Y)	[2:0-0-0,0-1-1], [4:0-3-10,1	Edge], [5:0-2-	10,Edge], [7:0)-3-8,0-2-3], [8:0	-0-4,0-0-13]					
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	0.64	Vert(LL)	-0.27 11-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.48 11-13	>793	240		
BCLL	0.0 *	Rep Stress Incr	NO		0.49	Horz(CT)	0.07 8	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	12014	Matrix	r-S	Wind(LL)	0.19 11-13	>999	240	Weight: 273 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-

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

3-4,5-7: 2x4 SPF 2100F 1.8E

BOT CHORD 2x6 SPF No.2 *Except* 8-12: 2x6 SPF 1650F 1.4E

2x4 SPF No.2

WEBS

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

Max Horz 2=-66(LC 13)

Max Uplift 2=-220(LC 5), 8=-433(LC 9) Max Grav 2=1998(LC 1), 8=2737(LC 1)

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

TOP CHORD 2-3=-3601/457, 3-4=-5208/742, 4-5=-5898/824, 5-6=-7979/1190, 6-7=-7979/1190,

7-8=-5074/758

2-14=-383/3067, 13-14=-386/3060, 11-13=-1029/7427, 10-11=-589/4330, 8-10=-588/4350 **BOT CHORD**

WEBS 3-14=0/307, 3-13=-387/2483, 4-13=-260/2208, 5-13=-3639/613, 5-11=-498/815,

6-11=-700/242, 7-11=-628/4015, 7-10=0/393

NOTES-

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate 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=220, 8=433
- 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.

GARCIA NUMBER 2000162101 ONAL 16952 TANSAS March 31,2021

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

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

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



RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW Job Truss Truss Type Qty Ply Lot 87 W0 **ROOF SPECIAL GIRDER** 210361 G2 **DEVELOPMENT SERVICES**

Wheeler Lumber, Waverly, KS - 66871, Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE SASSIMM SISON (1956 PAGE)

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-2Y5oy81NUvPNPMDzq5Zbo7RZ0azFsE?wb2jrfvzVRzF

04/14/2021
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 119 lb down and 55 lb up at 22-0-0, 119 lb down and 55 lb 24-0-0, and 119 lb down and 250 lb up at 26-0-0, and 119 lb down and 250 lb up at 27-3-12 on top chord, and 1080 lb down and 200 lb up at 20-10-12, 44 lb down at 22-0-0, 44 lb down at 24-0-0, and 44 lb down at 26-0-0, and 279 lb down and 82 lb up at 27-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

NOTES-

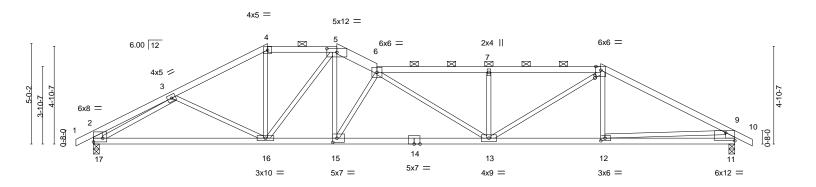
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-7=-70, 7-9=-70, 2-8=-20

Concentrated Loads (lb)

Vert: 7=-69(F) 6=-69(F) 11=-35(F) 10=-279(F) 15=-69(F) 16=-69(F) 17=-1080(F) 18=-35(F) 19=-35(F)

RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 G3 Roof Special **DEVELOPMENT SERVICES** Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-WkfA9U2?fDXE0Wo9Op4qLK_kO_IUbbv3qiSPCLzVRzE 32-04/14/2021 6-8-4 -0-10-8 0-10-8 12-1-12 14-1-12 19-8-12 25-3-12 4-8-2 3-5-8 2-0-0 5-7-0



	-	8-8-4		12-1-12	14-1-12	19-8-12		25-3		32-0-0	
	'	8-8-4	'	3-5-8	2-0-0	5-7-0	'	5-	7-0	6-8-4	'
Plate Offse	ets (X,Y)	[2:Edge,0-2-4], [5:0-6-0,0	-2-3], [11:Ed	ge,0-4-13], [12	2:0-2-8,0-1-8], [15:0-2-8,0-2-8]					
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.22 13-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.47 13-15	>809	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.11 11	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S	Wind(LL)	0.15 13-15	>999	240	Weight: 123 lb	FT = 10%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

BOT CHORD 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except* 2-17,9-11: 2x6 SPF No.2

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

Max Horz 17=-80(LC 6)

Max Uplift 17=-136(LC 8), 11=-245(LC 9) Max Grav 17=1497(LC 1), 11=1497(LC 1)

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

TOP CHORD 2-3=-618/25, 3-4=-2211/241, 4-5=-1908/230, 5-6=-2572/337, 6-7=-3019/476,

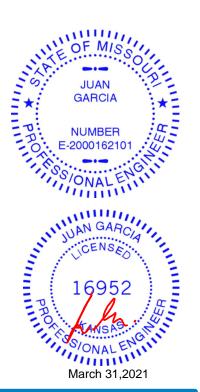
7-8=-3021/478, 8-9=-2376/362, 2-17=-478/78, 9-11=-1429/283

BOT CHORD 16-17=-208/1970, 15-16=-198/2302, 13-15=-310/3058, 12-13=-228/2028, 11-12=-235/784

WEBS 4-16=-56/659, 5-16=-725/143, 5-15=-223/1446, 6-15=-1560/328, 7-13=-479/192,

8-13=-194/1182, 3-17=-1749/230, 9-12=-168/1248

- 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=136, 11=245.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied or 2-9-12 oc purlins,

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

except end verticals, and 2-0-0 oc purlins (2-9-13 max.): 4-5, 6-8.

Scale = 1:57.5



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

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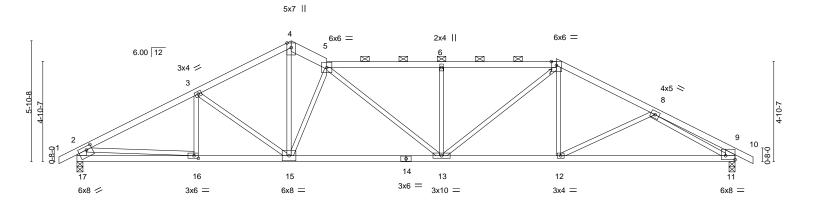
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW® 210361 G4 Roof Special **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SELVIM 15 20 1 Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-_xDZNq2d0Xf5egNMyWb3tYWxRNi3K2AC2MCykozVRzD 04/1/4/2021 -0-10-8 0-10-8 23-3-12 5-9-9 4-7-8 1-8-12 5-7-0 5-7-0 4-8-2 Scale = 1:56.0



		5-9-9	10-5-0		17-8-1	2		23-3-1	2	1	32-0-0	
	1	5-9-9	4-7-8	1	7-3-1	2		5-7-0		ı	8-8-4	
Plate Off	sets (X,Y)	[11:Edge,0-2-4], [16:0-2-	8,0-1-8], [17:0)-3-4,0-2-0]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.17	`13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.36	13-15	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.09	11	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	-S	Wind(LL)	0.12	13	>999	240	Weight: 126 lb	FT = 10%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

WEBS 2x3 SPF No.2 *Except*

2-17,9-11: 2x6 SPF No.2

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

Max Horz 17=91(LC 7)

Max Uplift 17=-155(LC 8), 11=-253(LC 9) Max Grav 17=1497(LC 1), 11=1497(LC 1)

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

TOP CHORD $2-3=-2358/263,\ 3-4=-2078/310,\ 4-5=-2026/313,\ 5-6=-2466/438,\ 6-7=-2468/439,$

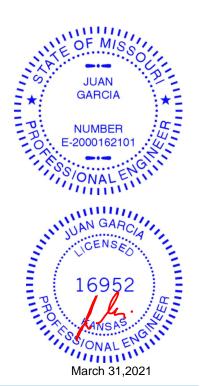
7-8=-2213/375, 8-9=-620/71, 2-17=-1427/188, 9-11=-480/103

16-17=-191/622, 15-16=-181/2021, 13-15=-189/2286, 12-13=-191/1921, 11-12=-317/1969 **BOT CHORD**

WEBS 3-15=-347/157, 4-15=-234/1590, 5-15=-1391/323, 5-13=-88/357, 6-13=-476/189,

7-13=-141/707, 7-12=0/267, 2-16=-104/1404, 8-11=-1747/368

- 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=155, 11=253.
- 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 3-4-9 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-3-1 max.): 5-7.

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.

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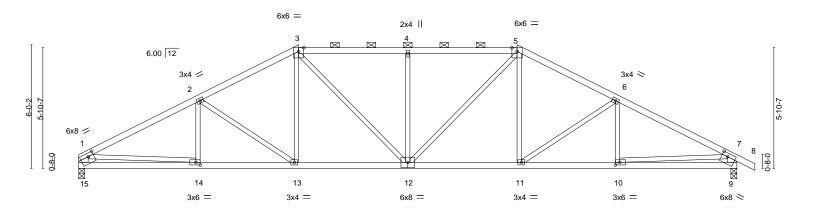
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 G5 Hip **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 1836 SUMMINIS AND SELLEN Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-xJLJoW4ul/8vpt_Wk3xdXzzcH5BQjo0GVWgh3pgzVRzB 364/94/2021 21-3-12 26-2-7 5-9-9 4-10-10 5-3-12 5-3-12 4-10-10



		5-9-9	10-8-4	16-0-0		21-3-12	-	26-2-7	32-0-0	
	<u>'</u>	5-9-9	4-10-10	5-3-12	<u>'</u>	5-3-12	<u>'</u>	4-10-10	5-9-9	'
Plate Offse	ts (X,Y)	[1:0-3-4,0-2-0], [9:0-3-4	,0-2-0], [10:0-2-	8,0-1-8], [14:0-2-8,0-1-8]						
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 0.51	Vert(LL)	-0.13 12	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC 0.54	Vert(CT)	-0.23 12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.07 9	n/a	n/a		
BCDL	10.0	Code IRC2018/	ΓPI2014	Matrix-S	Wind(LL)	0.08 12	>999	240	Weight: 126 lb	FT = 10%

BOT CHORD

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

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

1-15,7-9: 2x6 SPF No.2

REACTIONS. (size) 15=0-3-8, 9=0-3-8 Max Horz 15=-95(LC 4)

Max Uplift 15=-132(LC 8), 9=-158(LC 9) Max Grav 15=1418(LC 1), 9=1498(LC 1)

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

 $1\hbox{-}2\hbox{--}2376/209, 2\hbox{-}3\hbox{--}2067/195, 3\hbox{-}4\hbox{--}2046/217, 4\hbox{-}5\hbox{--}2046/217, 5\hbox{-}6\hbox{--}2061/195,}$ TOP CHORD

6-7=-2369/207 1-15=-1348/163 7-9=-1431/189

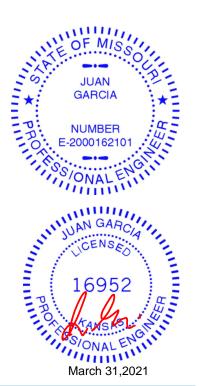
BOT CHORD 14-15=-140/486, 13-14=-193/2048, 12-13=-124/1778, 11-12=-68/1776, 10-11=-103/2032, 9-10=-115/606

2-13=-338/163, 3-13=-34/318, 3-12=-118/511, 4-12=-463/183, 5-12=-119/513,

5-11=-31/314, 6-11=-321/158, 1-14=-65/1568, 7-10=-39/1431

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate arip DOL=1.60
- 3) 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=132, 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.



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

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

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

Scale = 1:56.0



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

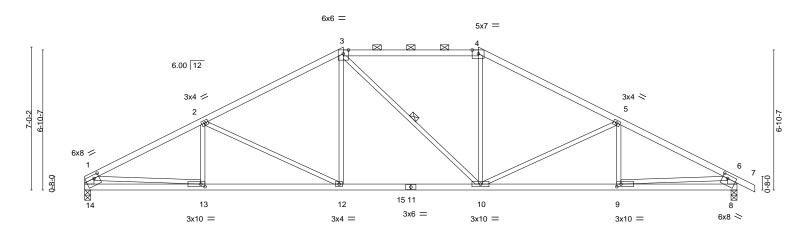
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 G6 Hip **DEVELOPMENT SERVICES** Job Reference (optional)

B.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMISS VISS CAUEL Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-PWuh?s5WJS1gV85xdf9mVA8MMbiLXQvfkKQcL6zVRzA 34/14/2021 19-3-12 6-7-8 26-2-7 6-10-11 6-10-11 Scale = 1:56.5



	-	5-9-9	6-10	0 -4)-11	6-7-8			10-11	5-9-9	
Plate Off	sets (X,Y)									
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC 0.	86 Vert(LL)	-0.16 10-12	>999	360	MT20	197/144
CDL	10.0	Lumber DOL	1.15	BC 0.	77 Vert(CT)	-0.27 10-12	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.	71 Horz(CT)	0.08 8	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-S	Wind(LL)	0.08 12-13	>999	240	Weight: 122 lb	FT = 10%

10-2-12

LUMBER-BRACING-

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

BOT CHORD 2-0-0 oc purlins (2-9-12 max.): 3-4. WEBS 2x3 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

1-14,6-8: 2x6 SPF No.2 **WEBS** 3-10 1 Row at midpt

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

Max Horz 14=-112(LC 13)

5.0.0

Max Uplift 14=-151(LC 8), 8=-177(LC 9) Max Grav 14=1482(LC 2), 8=1542(LC 2)

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

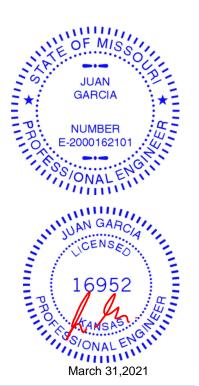
1-2=-2501/254, 2-3=-2040/198, 3-4=-1730/224, 4-5=-2026/196, 5-6=-2486/252, TOP CHORD

1-14=-1380/178, 6-8=-1442/204

BOT CHORD 13-14=-142/499, 12-13=-256/2179, 10-12=-62/1741, 9-10=-149/2158, 8-9=-83/543 **WEBS** 2-12=-504/215, 3-12=-11/502, 4-10=0/473, 5-10=-494/211, 1-13=-115/1728,

6-9=-67/1622

- 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) 14=151, 8=177.
- 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.



32.0.0

Structural wood sheathing directly applied, except end verticals, and



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

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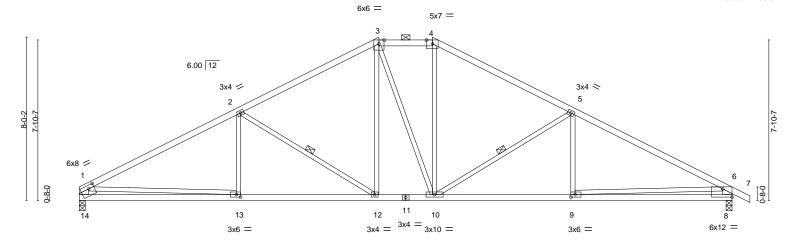
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW Hip 210361 G7 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Life Gasti MiMits Must Police

Basti Must Polic Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-Lu0SQY6mq3IOkRFJI4BEabEh6ORb?O?yCevjP?zVRz8 32-0-0<mark>04/14/2021</mark> 17-3-12 6-10-10 2-7-8 6-10-10 Scale = 1:56.5



		7-9-9	14-8-4	17-3-12	24-2-7	32-0-0	
	ı	7-9-9	6-10-10	2-7-8	6-10-10	7-9-9	
Plate Offse	ets (X,Y)	[1:0-3-4,0-2-0], [4:0-3-10,Edge]	, [8:Edge,0-4-13], [9:0-2-8,0-1-8], [13:0-2-8,0-1-8			
LOADING	(psf)	SPACING- 2-0-	·0 CSI.	DEFL.	in (loc) I/defl L/d	PLATES GRIP	
TCLL	25.0	Plate Grip DOL 1.1	5 TC 0.91	Vert(LL)	-0.12 12-13 >999 360	MT20 197/144	
TCDL	10.0	Lumber DOL 1.1	5 BC 0.59	Vert(CT)	-0.25 12-13 >999 240		
BCLL	0.0 *	Rep Stress Incr YE	S WB 0.47	Horz(CT) 0.07 8 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.08 12-13 >999 240	Weight: 129 lb FT = 10%	

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (4-7-11 max.): 3-4. WEBS 2x3 SPF No.2 *Except* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

1-14,6-8: 2x6 SPF No.2 **WEBS** 2-12, 5-10 1 Row at midpt

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

Max Horz 14=-130(LC 9)

Max Uplift 14=-167(LC 8), 8=-193(LC 9) Max Grav 14=1418(LC 1), 8=1498(LC 1)

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

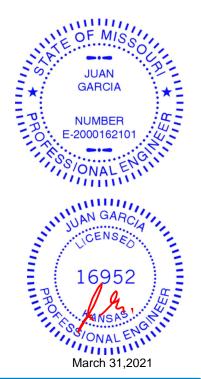
 $1\hbox{-}2\hbox{--}2366/268, 2\hbox{-}3\hbox{--}1768/226, 3\hbox{-}4\hbox{--}1473/246, 4\hbox{-}5\hbox{--}1767/224, 5\hbox{-}6\hbox{--}2361/267,}$ TOP CHORD

1-14=-1340/209. 6-8=-1422/235

BOT CHORD 13-14=-226/639, 12-13=-258/2018, 10-12=-60/1471, 9-10=-133/2004, 8-9=-223/846 **WEBS** 2-13=0/253, 2-12=-664/233, 3-12=-71/441, 4-10=-53/418, 5-10=-646/227, 5-9=0/258,

1-13=-37/1382, 6-9=0/1160

- 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) The Fabrication Tolerance at joint 6 = 6%
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=167, 8=193.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and



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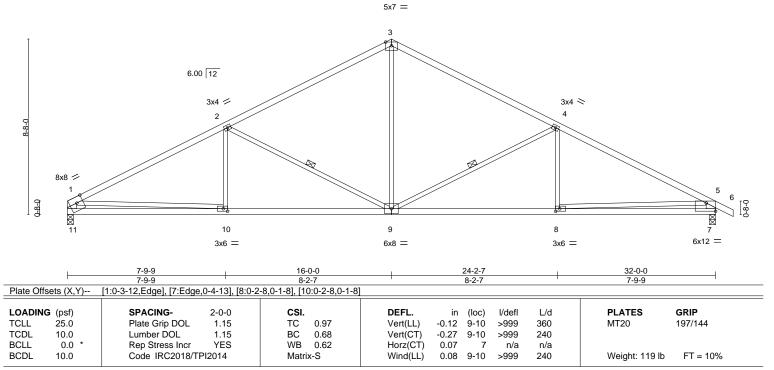
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 G8 Common 2 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Life Gasti MiMits (1888) Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-p4aqdt7DbNQFMbqWIniT7pmrwolTkp_5RIfGyRzVRz7 32-0-0 **04/14/2021** 24-2-7 8-2-7 8-2-7 7-9-9 Scale = 1:56.9



BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

3-6: 2x4 SPF 2100F 1.8E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

1-11,5-7: 2x6 SPF No.2

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

Max Horz 11=-142(LC 9)

Max Uplift 11=-176(LC 8), 7=-202(LC 9) Max Grav 11=1418(LC 1), 7=1498(LC 1)

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

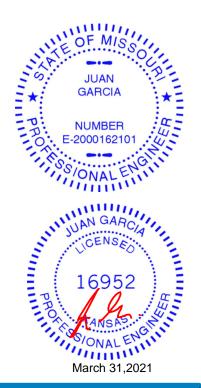
TOP CHORD 1-2=-2379/292, 2-3=-1680/253, 3-4=-1678/254, 4-5=-2376/291, 1-11=-1341/216,

5-7=-1423/242

BOT CHORD 10-11=-224/609, 9-10=-295/2034, 8-9=-158/2021, 7-8=-187/808

WEBS 3-9=-47/848, 4-9=-771/269, 4-8=0/272, 2-9=-782/273, 2-10=0/265, 1-10=-72/1428,

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

4-9, 2-9

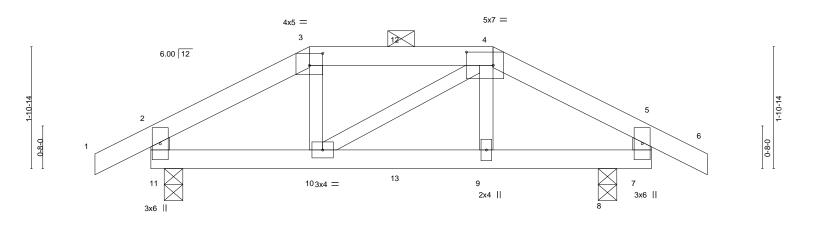
Rigid ceiling directly applied or 10-0-0 oc bracing.

1 Row at midpt



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 H1 Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMILION LISS OUR RESERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-ITia2Z9e7_gybv_uQCkxCEsNfcVRCsROuc8N0KzVRz5 2-5-12 2-5-12 7-10-0 04/114/2021 0-10-8 2-10-8



		0-2-8 0-2-8	2-5-12 2-3-4			5-4-4 2-10-8		-		7-3-8 1-11-4	7-10-0 0-6-8	
Plate Offse	ets (X,Y)	[3:0-2-8,0-2-4], [4:0-5-0,0	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	0.25	Vert(LL)	-0.02	9-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.03	9-10	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	8	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matrix	<-S	Wind(LL)	0.02	9-10	>999	240	Weight: 26 lb	FT = 10%

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.

LUMBER-BRACING-

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

2-11,5-7: 2x4 SPF No.2

(size) 11=0-3-8, 8=0-3-8 Max Horz 11=-38(LC 6)

Max Uplift 11=-138(LC 8), 8=-168(LC 9) Max Grav 11=383(LC 21), 8=445(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 2-3=-380/166, 3-4=-296/157, 4-5=-309/155, 2-11=-335/142, 5-7=-302/134 TOP CHORD

BOT CHORD 10-11=-129/318

NOTES-

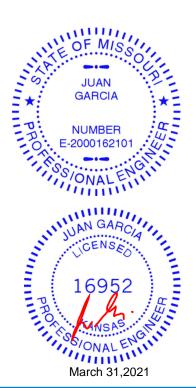
REACTIONS.

- 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) 11=138, 8=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.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 111 lb down and 126 lb up at 2-5-12, and 62 lb down and 43 lb up at 3-11-0, and 103 lb down and 141 lb up at 5-4-4 on top chord, and 17 lb down and 5 lb up at 2-5-12, and 12 lb down at 3-11-0, and 37 lb down and 53 lb up at 5-3-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 7-11=-20



Scale = 1:18.0



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Job Truss Truss Type Qty Ply Lot 87 W0 Н1 210361 Hip Girder

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional)

B.430 s Mar 22 2021 MiTek Industries, Inc. Life Gazi MiMito Visionals

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-ITia2Z9e7_gybv_uQCkxCEsNfcVRCsROuc8N0KzVRz5

04/14/2021

LOAD CASE(S) Standard

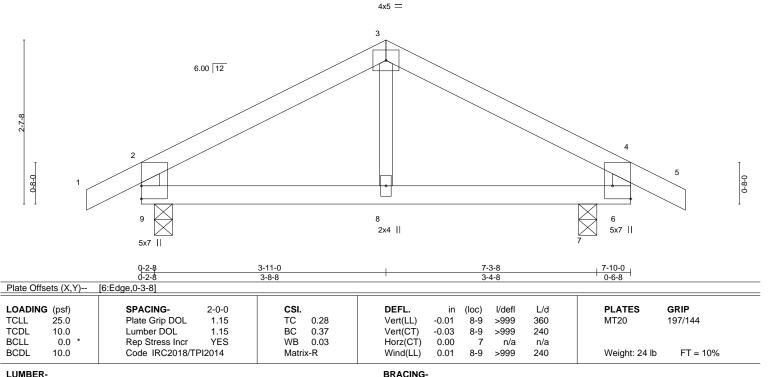
Wheeler Lumber,

Waverly, KS - 66871,

Concentrated Loads (lb) Vert: 10=-0(F) 9=-2(F) 13=-2(F)

RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 H2 Common 3 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Life Gasti MiMito Industries, Inc. Life Gasti MiMito Industries, Inc. Life Gasti MiMito Industries (Inc. Life Gasti Mimito Industries) Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-EfGyGv9HulopD3Z4_vGAIROXw0s4xJtX7GtwYmzVRz4 04/14/2021 0-10-8 3-11-0 3-11-0 Scale = 1:18.4



TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-8: 2x3 SPF No.2

REACTIONS. (size) 9=0-3-8, 7=0-3-8

Max Horz 9=-47(LC 6)

Max Uplift 9=-64(LC 8), 7=-71(LC 9) Max Grav 9=379(LC 1), 7=443(LC 1)

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

2-3=-298/43, 3-4=-306/52, 2-9=-325/89, 4-6=-342/90 TOP CHORD

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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 9, 7.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

except end verticals.



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEWS 210361 J1 Diagonal Hip Girder 3 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMING MUSS CAUEL Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-A2NjgbBXQv2XSMjT5KleqsUsypafPDvqaaM1dfzVRz2 04/14/2021 1-2-14 5-4-4 Scale = 1:16.4 3x4 || 3 4.24 12 4 2x4 ||

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

L/d

360

240

n/a

240

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

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

(loc)

4-5

4-5

4-5

-0.03

-0.06

-0.00

0.01

I/defl

>999

>999

>999

except end verticals.

n/a

PLATES

Weight: 16 lb

GRIP

197/144

FT = 10%

LUMBER-

TCLL

TCDL

BCLL

BCDI

WEBS

LOADING (psf)

25.0

10.0

0.0

10.0

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

2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2

REACTIONS.

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

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Horz 5=108(LC 22)

Max Uplift 5=-100(LC 4), 4=-48(LC 8) Max Grav 5=338(LC 1), 4=215(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-5=-300/138

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

CSI.

TC

ВС

WB

Matrix-R

0.37

0.23

0.00

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

2-0-0

1.15

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) 4 except (jt=lb) 5=100
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 33 lb up at 2-7-6, and 68 lb down and 33 lb up at 2-7-6 on top chord, and 3 lb down and 2 lb up at 2-7-6, and 3 lb down and 2 lb up at 2-7-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

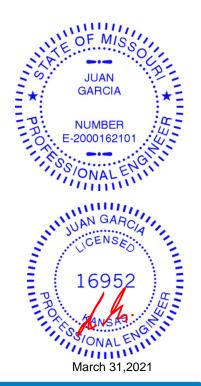
1) Dead + Roof Live (balanced): Lumber Increase=1.15. Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=3(F=2, B=2)





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Job Truss Truss Type Qty Lot 87 W0 210361 J2 Jack-Open 10 Job Reference (optional)

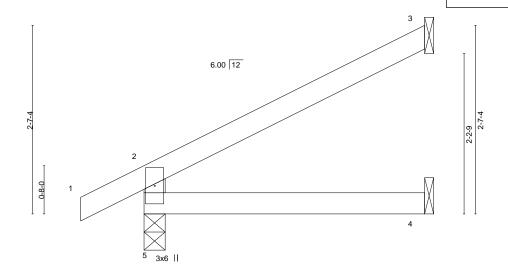
8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMINITIS MISS CAURI Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-pM6FCild3bbZqvCdnorWSJOzyqfiGDetbLRGg1yzVRys 3-10-8 3-10-8 -0-10-8

0-10-8

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

04/14/2021

Scale: 3/4"=1



3-10-8 3-10-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 Vert(LL) -0.01 >999 360 197/144 **TCLL** TC 0.19 4-5 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.12 Vert(CT) -0.02 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.01 4-5 >999 240 Weight: 11 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=87(LC 8)

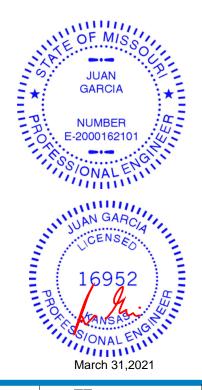
Max Uplift 5=-29(LC 8), 3=-64(LC 8)

Max Grav 5=246(LC 1), 3=112(LC 1), 4=69(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.



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

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

except end verticals.

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

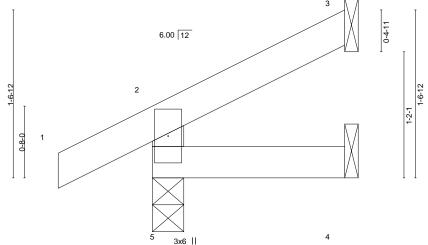
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J3 Jack-Open 6 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITES OUR RESERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-aubHtRQ4j2ZisREJGXfKe4JLftRh5GrmBhC5JVzVRyk -0-10-8 04/14/2021 0-10-8 1-9-7 Scale = 1:10.7



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 360 197/144 **TCLL** 0.07 5 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 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

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

5

>999

except end verticals.

240

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

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

Weight: 6 lb

FT = 10%

0.00

LUMBER-

BCDL

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

10.0

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

Max Horz 5=45(LC 8)

Max Uplift 5=-26(LC 8), 3=-28(LC 8)

Code IRC2018/TPI2014

Max Grav 5=167(LC 1), 3=39(LC 1), 4=29(LC 3)

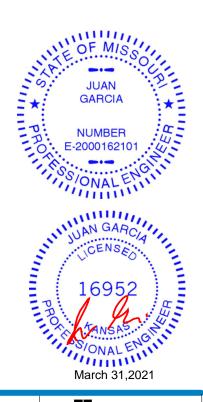
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

Matrix-R

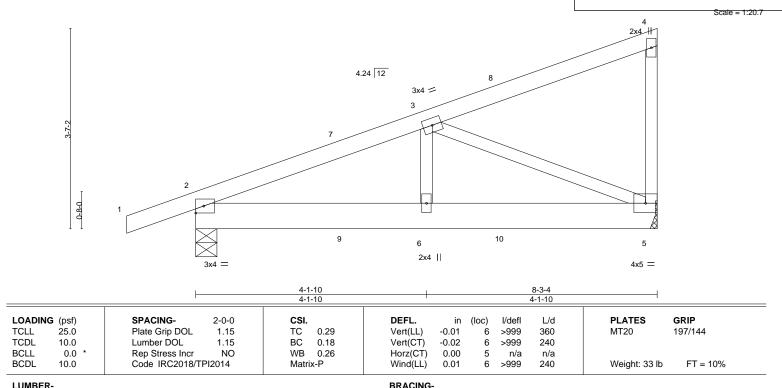
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.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





RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J4 Diagonal Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITE AND SERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-359f4mRiUMhZUbpVqEAZAIrTuHlOqf3wPLyerxzVRyj 8-3-4 04/14/2021 1-2-14 4-1-10 4-1-10



TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. (size)

Max Horz 2=146(LC 22) Max Uplift 5=-102(LC 8), 2=-133(LC 4) Max Grav 5=385(LC 1), 2=483(LC 1)

5=Mechanical, 2=0-4-9

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

2-3=-614/102 TOP CHORD

BOT CHORD 2-6=-141/494, 5-6=-141/494

WEBS 3-5=-538/166

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.
- Refer to girder(s) for truss to truss connections
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=102, 2=133,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 34 lb up at 2-8-7, 68 lb down and 34 lb up at 2-8-7, and 96 lb down and 72 lb up at 5-6-6, and 96 lb down and 72 lb up at 5-6-6 on top chord, and 3 lb down and 1 lb up at 2-8-7, 3 lb down and 1 lb up at 2-8-7, and 22 lb down at 5-6-6, and 22 lb down at 5-6-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

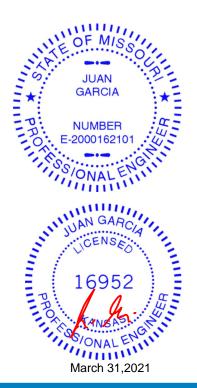
LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 8=-24(F=-12, B=-12) 9=3(F=1, B=1) 10=-29(F=-14, B=-14)



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

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

except end verticals.



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J5 Jack-Open 16 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITES USS CAUEL Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-XHi1I6SKEgpP5IOiOyhojVOZ6h3YZAL3e?hCONzVRyi -0-10-8 5-11-4 04/14/2021 5-11-4 0-10-8 Scale = 1:21.3 3 6.00 12 0-8-0 5x7 ||

5-11-4

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

I/defI

>999

>612

>999

except end verticals.

n/a

(loc) 4-5

4-5

4-5

3

-0.05

-0.11

0.03

0.04

L/d

360

240

n/a

240

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

PLATES

Weight: 16 lb

MT20

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

GRIP

197/144

FT = 10%

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

WEBS 2x4 SPF No.2

25.0

10.0

0.0

10.0

5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=90(LC 8)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Uplift 3=-58(LC 8)

Max Grav 5=336(LC 1), 3=179(LC 1), 4=108(LC 3)

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

2-5=-293/47

NOTES-

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

CSI.

TC

ВС

WB

Matrix-R

0.52

0.31

0.00

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

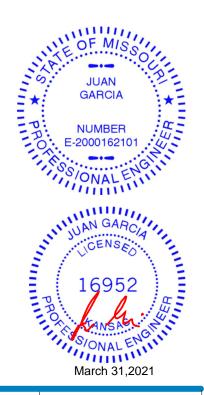
2-0-0

1.15

1.15

YES

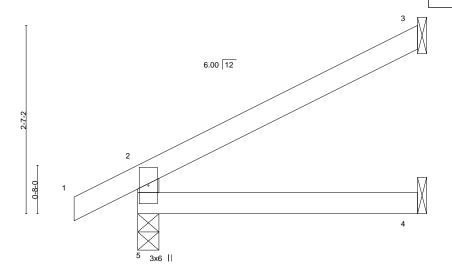
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 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.





RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J6 Jack-Open 2 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Life Gasti MiMita Life Life Satisfies Out It is a life of the life of Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-?TGPVSTy?zxGjuzuxfC1Gjxq55StldbDtfRlwpzVRyh 3-10-3 04/14/2021 3-10-3 0-10-8



						3-10-3	3			'		
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.02	4-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-R	Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

3-10-3

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

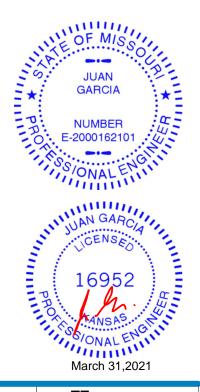
> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=86(LC 8) Max Uplift 5=-29(LC 8), 3=-63(LC 8)

Max Grav 5=245(LC 1), 3=111(LC 1), 4=68(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.



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

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

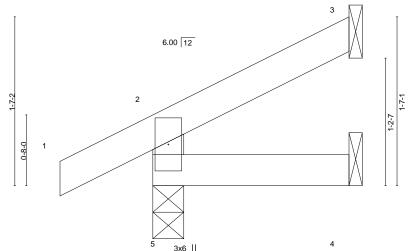
except end verticals.

Scale: 3/4"=1



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J7 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMILITY MUSS CAUEL Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-TgqnjoUanhH37L2Y4VNjGowT0eUpc14rM5JAJSGzVRyg 1-10-3 04/14/2021 0-10-8 1-10-3 Scale = 1:10.9



1-10-3 1-10-3

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 0.07	Vert(LL)	-0.00	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	-0.00	5	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.00	5	>999	240	Weight: 6 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

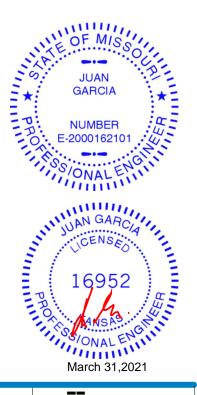
> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=46(LC 8) Max Uplift 5=-26(LC 8), 3=-29(LC 8)

Max Grav 5=169(LC 1), 3=42(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.
- 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 1-10-3 oc purlins,

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

except end verticals.



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J8 Jack-Open 2 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITES USS CAUEL Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-P2yY8UVrluKraMiTdomktLYF2IRIVzKfZdfPX8zVRye -0-10-8 04/14/2021 0-10-8 3-0-8 2-10-12 Scale = 1:21.7 6.00 12 2-7-10 1-0-0 3x6 = 0-8-0 4.36 12 3x6 II 3-0-8 2-10-12

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

I/defI

>999

n/a

>999

except end verticals.

(loc)

5

5 >598

5-6

-0.05

-0.11

0.04

0.04

L/d

360

240

n/a

240

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

PLATES

Weight: 16 lb

MT20

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

GRIP

197/144

FT = 10%

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

10.0

0.0

10.0

WEBS 2x4 SPF No.2

> 6=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 6=89(LC 8) Max Uplift 3=-59(LC 8)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Grav 6=336(LC 1), 3=180(LC 1), 4=108(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-6=-292/46

NOTES-

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

CSI.

TC

ВС

WB

Matrix-R

0.52

0.30

0.00

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

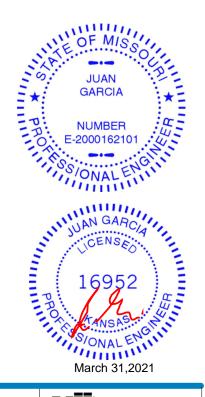
2-0-0

1.15

1.15

YES

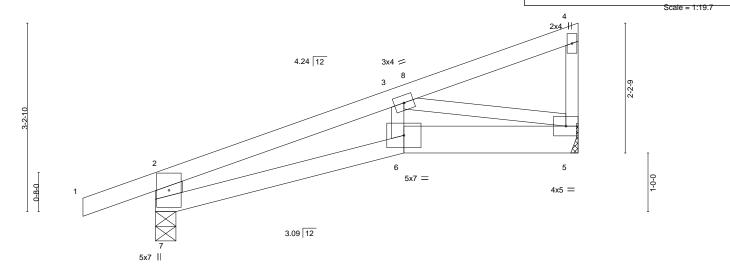
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Bearing at joint(s) 6 considers parallel to grain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





Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J9 Diagonal Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMILIZATION SPORTS Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-tEWwLqWT3CSiCWHfAVHzQZ5QAikkEObooHPz3bzVRyd 04/14/2021 1-2-14 4-2-14 2-11-11



7-2-9

except end verticals.

Structural wood sheathing directly applied or 5-9-14 oc purlins,

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

		<u> </u>	4-2-14	<u>'</u>	2-11-11	
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	e) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.04 6	6 >999 360	MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.08	6 >999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.19	Horz(CT) 0.03 5	5 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.04 6	6 >999 240	Weight: 25 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

4-2-14

LUMBER-

2x4 SPF No.2 TOP CHORD

2x6 SPF No.2 *Except* **BOT CHORD** 6-7: 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except*

2-7: 2x6 SPF No.2

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

Max Horz 7=120(LC 5)

Max Uplift 7=-129(LC 4), 5=-91(LC 8) Max Grav 7=470(LC 1), 5=364(LC 1)

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

2-7=-561/190, 2-3=-783/184 TOP CHORD **BOT CHORD** 6-7=-205/690. 5-6=-200/705 **WEBS** 3-6=-27/329, 3-5=-700/218

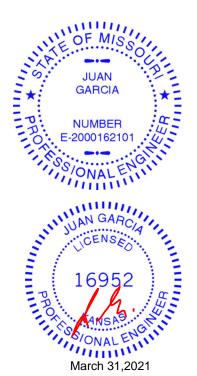
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for 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) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb)
- 7) This truss 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) 69 lb down and 38 lb up at 4-5-10, and 69 lb down and 38 lb up at 4-5-10 on top chord, and 56 lb down and 31 lb up at 4-2-14, and 56 lb down and 31 lb up at 4-2-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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



RELEASE FOR



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



Truss Type Job Truss Qty Ply Lot 87 W0 210361 J9 Diagonal Hip Girder

RELEASE FOR

CONSTRUCTION AS NOTED ON PLANS REVIEW

Job Reference (optional)

BEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. Lives 16a 83 MiMili 30 1/155 Guight

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-tEWwLqWT3CSiCWHfAVHzQZ5QAikkEObooHPz3bzVRyd

04/14/2021

LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 6=-112(F=-56, B=-56)

Wheeler Lumber,

Waverly, KS - 66871,



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J10 Diagonal Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Life Gasti MiMit 4465 Out R Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-eEx5uxC9BDAO4WHff2ptN400VDq58dyzpE6b95zVRz1 04/14/2021 4-2-14 Scale = 1:19.7 2x4_H 4.24 12 3x4 = 1 5x7 = 0-8-0 4x5 = 3.09 12 5x7 4-2-14 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES** GRIP 2-0-0 (loc) I/def 25.0 Plate Grip DOL Vert(LL) 197/144 **TCLL** 1.15 TC 0.39 -0.05 5 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.54 Vert(CT) -0.09 5 >882 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.20 Horz(CT) 0.03 4 n/a n/a

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.05

5 >999

except end verticals.

240

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

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

Weight: 24 lb

FT = 10%

LUMBER-

BCDL

TOP CHORD 2x4 SPF No.2

10.0

2x6 SPF No.2 *Except* **BOT CHORD** 5-6: 2x4 SPF No.2 WEBS 2x3 SPF No.2 *Except*

1-6: 2x6 SPF No.2

REACTIONS.

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

Max Horz 6=109(LC 5)

Max Uplift 6=-62(LC 4), 4=-96(LC 8) Max Grav 6=363(LC 1), 4=384(LC 1)

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

Code IRC2018/TPI2014

1-6=-451/128, 1-2=-825/194 TOP CHORD **BOT CHORD** 5-6=-217/735, 4-5=-212/753 **WEBS** 2-5=-27/318, 2-4=-749/230

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

Matrix-S

- 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) 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, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 37 lb up at 4-5-10, and 69 lb down and 38 lb up at 4-5-10 on top chord, and 71 lb down and 34 lb up at 4-2-14, and 56 lb down and 31 lb up at 4-2-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

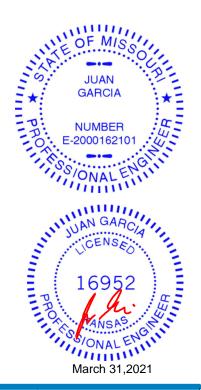
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 5=-127(F=-71, B=-56)





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



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS RE 210361 J11 Jack-Open 2 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITOS (USS CAUE) Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-6RVT5HDnyWlFigssDlK6vHZCldFPt7O72ur8hXzVRz0 5-2-4 04/14/2021 0-10-8 3-0-8 2-1-12 Scale = 1:19.4 6.00 12 2-10-7 1-0-0 0-8-0 4.36 12 3x6 |

		3-0-8 3-0-8	5-2-4 2-1-12	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15		iL. in (loc) I/defl L/d (LL) -0.03 5 >999 360 (CT) -0.07 5-6 >907 240	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	1 1 1 1	z(CT) 0.02 3 n/a n/a d(LL) 0.03 5-6 >999 240	Weight: 14 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

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

Max Horz 6=113(LC 8) Max Uplift 6=-32(LC 8), 3=-86(LC 8)

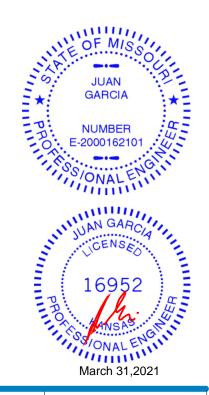
Max Grav 6=303(LC 1), 3=156(LC 1), 4=94(LC 3)

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

TOP CHORD 2-6=-264/80

NOTES-

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



Structural wood sheathing directly applied or 5-2-4 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.

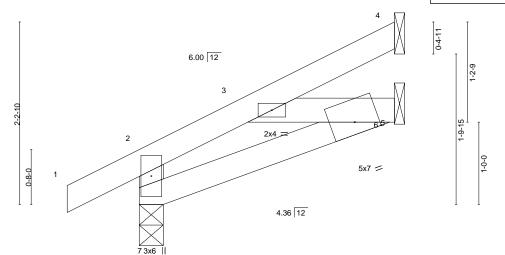
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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

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 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J12 Jack-Open 3 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Life Gasti MiMito Life (1955) Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-ad3rJdDPjqQ6JqR2mSrLSV6Rd1dycaeGGYbhE_zVRz? 3-1-3 3-1-3 -0-10-8 04/14/2021 0-10-8



				-		3-0-8)-0-11		
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	0.09	Vert(LL	-0.00	3	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(C	0.00	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(C	Γ) -0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-R	Wind(L	_) 0.00	3	>999	240	Weight: 11 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 7=0-3-8, 4=Mechanical, 6=Mechanical (size) Max Horz 7=70(LC 8)

> Max Uplift 7=-20(LC 8), 4=-28(LC 8), 6=-2(LC 8) Max Grav 7=224(LC 1), 4=59(LC 1), 6=112(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) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4, 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 3-1-3 oc purlins,

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

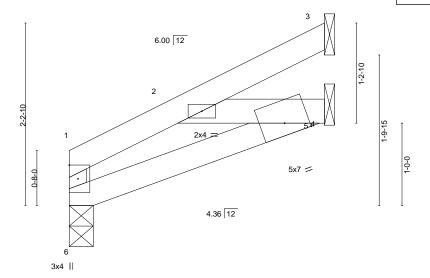
except end verticals.

RELEASE FOR

Scale = 1:14.0



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J13 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SELUMING 18 SELU Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-2pdEWyE1U8Yzx_0EKAMa_iectQz7L1uQVBKFmQzVRz_ 3-1-3 3-1-3 04/14/2021



	<u> </u>		3-0-8	0-0-1	<u> </u>	
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 0.12	Vert(LL) -0.0	0 2 >	999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) -0.0	0 5-6 >	999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.0	0 3	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.0	00 2 >	999 240	Weight: 10 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

3-1-3

except end verticals.

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

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

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

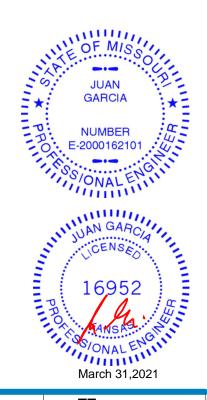
> (size) 6=0-3-8, 3=Mechanical, 5=Mechanical Max Horz 6=53(LC 8) Max Uplift 3=-28(LC 8), 5=-6(LC 8)

Max Grav 6=141(LC 1), 3=58(LC 1), 5=117(LC 3)

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

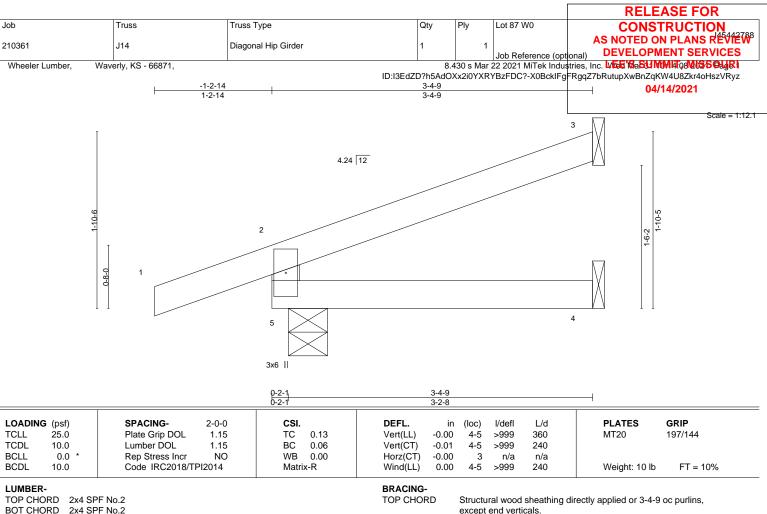
NOTES-

- 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) 3, 5.
- 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.



Scale = 1:14.0





BOT CHORD

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

2x4 SPF No.2

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

> (size) 5=0-4-15, 3=Mechanical, 4=Mechanical

Max Horz 5=73(LC 12) Max Uplift 5=-95(LC 6), 3=-51(LC 12), 4=-1(LC 19) Max Grav 5=116(LC 1), 3=50(LC 1), 4=44(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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 25 lb down and 9 lb up at -1-2-14, and 25 lb down and 9 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

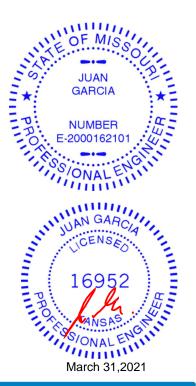
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Concentrated Loads (lb)

Vert: 1=-38(F=-19, B=-19)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-24(F=23, B=23), 2=-3(F=34, B=34)-to-3=-59(F=5, B=5), 5=0(F=10, B=10)-to-4=-17(F=2, B=2)







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



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J15 Diagonal Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional) DEVELOPMENT SERVICES
8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SELUMINATOR 1 Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-?CI_xeGI0IohBHAdSbP237jweEeqpxOjzVpMpIzVRyy -1-2-14 3-4-9 04/14/2021 1-2-14 3-4-9 Scale = 1:12.1 4.24 12 1-10-6 1-6-2 0-8-0 3x6 || 0-8-7 0-8-7 2-8-2 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 0.17 4-5 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.18 Vert(CT) 0.01 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

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.01

4-5

>999

except end verticals.

240

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

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

Weight: 10 lb

FT = 10%

LUMBER-

REACTIONS.

BCDL

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

(size)

BOT CHORD WEBS 2x4 SPF No.2

10.0

3=Mechanical, 4=Mechanical, 5=0-4-15 Max Horz 5=76(LC 12) Max Uplift 3=-57(LC 12), 4=-22(LC 1), 5=-130(LC 6) Max Grav 3=23(LC 1), 4=26(LC 4), 5=165(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

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) 3, 4 except (jt=lb) 5=130.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 31 lb down and 12 lb up at -1-2-14, and 31 lb down and 12 lb up at -1-2-14 on top chord. The design/selection of such connection device(s) is the
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

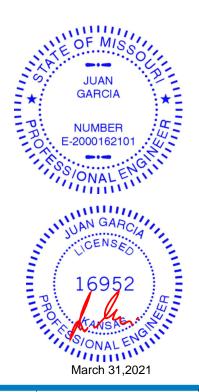
LOAD CASE(S) Standard

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

Vert: 1=-48(F=-24, B=-24)

Trapezoidal Loads (plf)

Vert: 1=0(F=35, B=35)-to-2=-24(F=23, B=23), 2=-24(F=23, B=23)-to-7=-31(F=19, B=19), 7=0(F=35, B=35)-to-3=-49(F=10, B=10), 6=0(F=10, B=10)-to-8=-6(F=7, B=7), 8=0(F=10, B=10)-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.

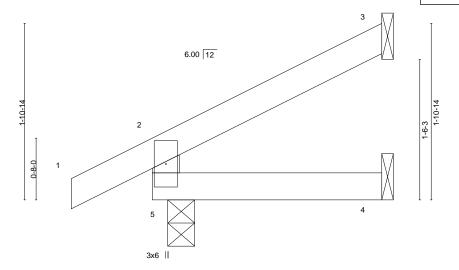
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J16 Jack-Open 3 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMINITO (NESS DAJE) Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-TOIM8_Gwn3wYoRlp?lwHcLG6we?JYOdsB9ZvMlzVRyx 2-5-12 2-5-12 04/14/2021 0-10-8



		0-2-0	2-3-12	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 4-5 >999 360	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) -0.00 4-5 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 4-5 >999 240	Weight: 7 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

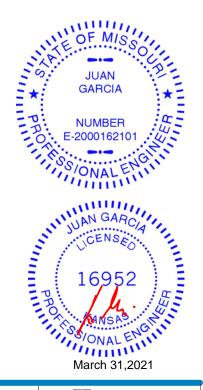
> 5=0-3-8, 3=Mechanical, 4=Mechanical (size) Max Horz 5=58(LC 8) Max Uplift 5=-27(LC 8), 3=-40(LC 8)

Max Grav 5=190(LC 1), 3=64(LC 1), 4=42(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.



Structural wood sheathing directly applied or 2-5-12 oc purlins,

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

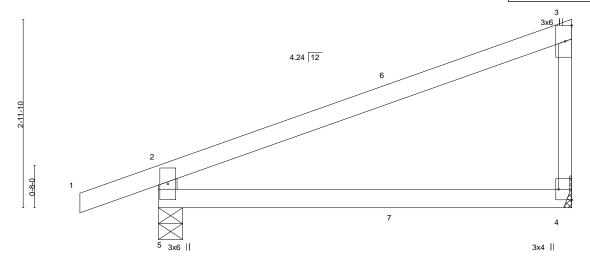
except end verticals.

RELEASE FOR

Scale = 1:12.4



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J17 Diagonal Hip Girder 3 **DEVELOPMENT SERVICES** Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-xbskMKHYXM2PQbK?Z0RW9Yp9H2GWHqt?QpISuBzVRyw 04/14/2021 1-2-14 6-6-1



TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[4:Eage,0-2-8]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.06 4-5 >999 360 MT20 197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) -0.13 4-5 >578 240
BCLL	0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) -0.00 4 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.03 4-5 >999 240 Weight: 19 lb FT = 10%

LUMBER-BRACING-

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

2x4 SPF No.2 *Except* 3-4: 2x3 SPF No.2

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

Max Horz 5=126(LC 22)

Max Uplift 5=-107(LC 4), 4=-61(LC 8) Max Grav 5=390(LC 1), 4=273(LC 1)

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

TOP CHORD 2-5=-342/154

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=107.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 76 lb down and 50 lb up at 3-9-3, and 76 lb down and 50 lb up at 3-9-3 on top chord, and 8 lb down at 3-9-3, and 8 lb down at 3-9-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

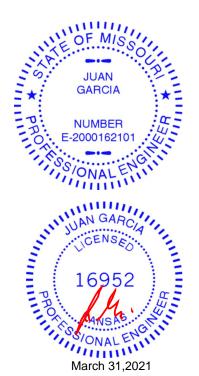
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-3(F=-2, B=-2)



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

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

except end verticals.

Scale = 1:18.1



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

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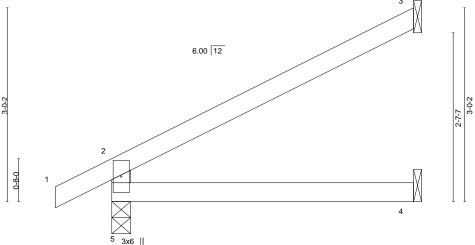
AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



RELEASE FOR CONSTRUCTION Job Truss Truss Type Qty Lot 87 W0 AS NOTED ON PLANS REVIEW 210361 J18 Jack-Open 11 **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SELUMINAT 2015 CLURI Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-PnQ7ZgIAIgAF2lvC7jylhmLPrRfY0H79fT20QdzVRyv -0-10-8 4-8-4 04/14/2021 0-10-8 4-8-4 Scale = 1:17.9 3



4-8-4 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 0.30 4-5 >999 MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.18 Vert(CT) -0.04 4-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.02 4-5 >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 2x4 SPF No.2

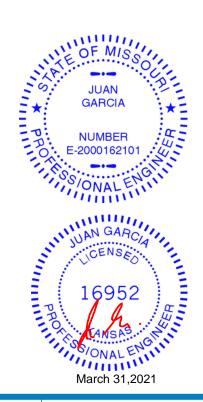
> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=72(LC 8) Max Uplift 3=-46(LC 8)

Max Grav 5=281(LC 1), 3=139(LC 1), 4=84(LC 3)

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

NOTES-

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



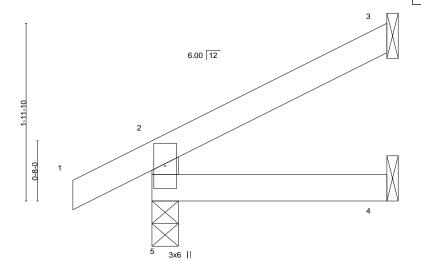
Structural wood sheathing directly applied or 4-8-4 oc purlins,

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

except end verticals.



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J19 Jack-Open 5 **DEVELOPMENT SERVICES** Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-tz_Vh0Jo3_J6fvTOhRT_EzudAr1xlkNlt7nZy4zVRyu 2-7-3 2-7-3 04/14/2021 0-10-8



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 360 197/144 **TCLL** 0.07 4-5 >999 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.04 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 Code IRC2018/TPI2014 BCDL 10.0 Matrix-R Wind(LL) 0.00 4-5 >999 240 Weight: 8 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

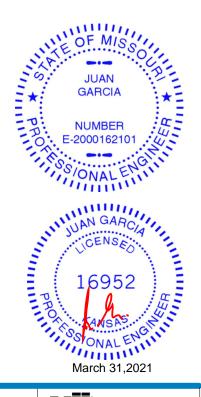
> (size) 5=0-3-8, 3=Mechanical, 4=Mechanical Max Horz 5=61(LC 8)

Max Uplift 5=-27(LC 8), 3=-42(LC 8) Max Grav 5=194(LC 1), 3=68(LC 1), 4=44(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.



Structural wood sheathing directly applied or 2-7-3 oc purlins,

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

except end verticals.

Scale = 1:12.7



Job Truss Truss Type Qty Lot 87 W0 210361 J20 Jack-Open

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

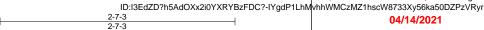
Structural wood sheathing directly applied or 2-7-3 oc purlins,

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

except end verticals.

04/14/2021

Scale = 1:12.7



6.00 12 3

3x6 ||

		-	2-7-3	1	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.09 BC 0.05	Vert(LL) -0.00 3-4 Vert(CT) -0.00 3-4	>999 360 >999 240	MT20 197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2	n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL) 0.00 3-4	>999 240	Weight: 7 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

Wheeler Lumber,

Waverly, KS - 66871,

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

WEBS 2x3 SPF No.2

4=Mechanical, 2=Mechanical, 3=Mechanical

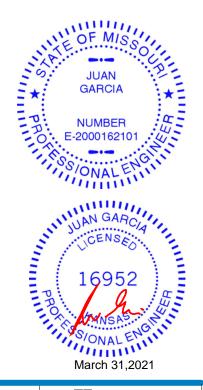
Max Horz 4=44(LC 8) Max Uplift 2=-46(LC 8)

Max Grav 4=109(LC 1), 2=80(LC 1), 3=47(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) 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.

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

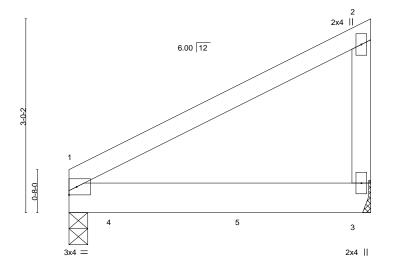
Job Truss Truss Type Qty Lot 87 W0 210361 J21 Jack-Closed Girder Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-mkD?cNMJ*CpY8Wn9wGYwOp3DtSBXhYMuolln6rzVRyq

4-8-4

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEWS **DEVELOPMENT SERVICES**

04/14/2021

Scale = 1:17.9



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL Vert(LL) -0.07 >810 197/144 **TCLL** 1.15 TC 0.47 1-3 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.83 Vert(CT) -0.12 1-3 >447 240 **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-P Wind(LL) 0.05 1-3 >999 240 Weight: 20 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SPF No 2 BOT CHORD 2x6 SP DSS

WEBS 2x4 SPF No.2

(size)

1=0-3-8, 3=Mechanical Max Horz 1=106(LC 5)

Max Uplift 1=-117(LC 8), 3=-180(LC 8) Max Grav 1=890(LC 1), 3=1100(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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=117, 3=180,
- 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) 93 lb down and 16 lb up at 0-9-0, and 1501 lb down and 221 lb up at 2-9-0 on bottom chord. The design/selection of such connection device(s) is the
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

Vert: 4=-93(B) 5=-1501(B)



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

Rigid ceiling directly applied or 5-2-6 oc bracing.

except end verticals.



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J22 Jack-Open **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMINITE LAGES CAUEL Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-ExnOqjNxuWxPmgMMT_39x1bNosgHQ?c11PVKeHzVRyp -0-10-8 5-11-4 04/14/2021 2-8-5 0-10-8 3-2-15 Scale = 1:21.8 6.00 12 2-7-10 3x6 = 1-0-0 0-8-0 5.00 12 3x6 II 5-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc)

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

4-5

4-5

4

5 >999

>999

>600

except end verticals.

n/a

360

240

n/a

240

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

-0.05

-0.11

0.05

0.04

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

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

25.0

10.0

0.0

10.0

Max Horz 6=89(LC 8) Max Uplift 3=-59(LC 8)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Grav 6=336(LC 1), 3=180(LC 1), 4=108(LC 3)

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

TOP CHORD 2-6=-292/46

NOTES-

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

TC

ВС

WB

Matrix-R

0.53

0.29

0.00

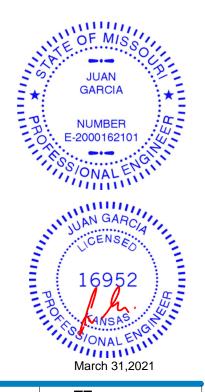
2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

1.15

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



197/144

FT = 10%

MT20

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

Weight: 16 lb





RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J23 Jack-Open 6 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMINIT SUISS CAUEL Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-i7Lm13N2fq3GNqxY1haOTE8aFG_69SsBG3EtAjzVRyo -0-10-8 2-3-8 2-3-8 04/14/2021 3-7-12 0-10-8 Scale = 1:21.7 0-4-11 6.00 12 3x6 II 0-8-0 2x4 || 3x6 || 3-7-12 Plate Offsets (X,Y)--[6:0-3-0,0-0-8] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/defI L/d 25.0 Plate Grip DOL TCLL 1.15 TC 0.42 Vert(LL) -0.07 5-6 >999 360 MT20 197/144 TCDL 10.0 Lumber DOL 1.15 ВС 0.44 Vert(CT) -0.13 5-6 >512 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.07 5 n/a n/a BCDL Code IRC2018/TPI2014 FT = 10% 10.0 Wind(LL) >999 240 Weight: 18 lb Matrix-R 0.06 5-6 **BRACING-**TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins,

BOT CHORD

except end verticals.

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

LUMBER-

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

6-7: 2x3 SPF No.2

WEBS 2x4 SPF No.2

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

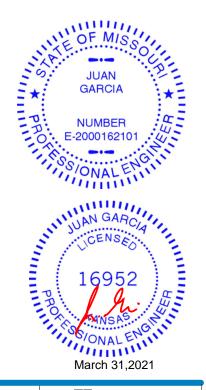
Max Horz 8=90(LC 8) Max Uplift 4=-47(LC 8)

Max Grav 8=348(LC 1), 4=164(LC 1), 5=113(LC 3)

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

TOP CHORD 2-8=-345/16

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





RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J24 Diagonal Hip Girder **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITED USS CAUEL Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-AJv8FPQBQ7B7?zWkbP5d0ShjzgLuuvtKUj_RiAzVRyn 3-2-2 3-2-2 04/14/2021 1-2-14 Scale = 1:20.9 3x4_H

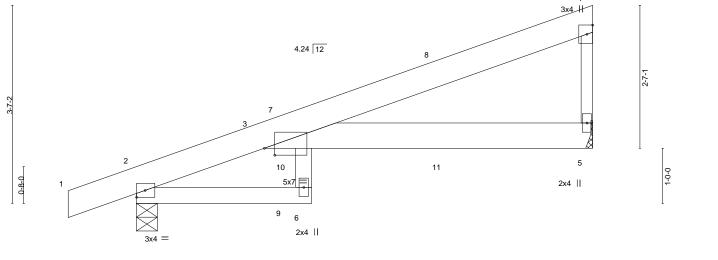


Plate Off	fsets (X,Y)	[3:0-2-4,0-1-8]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.11	6	>860	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.21	6	>466	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.08	5	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	I2014	Matri	x-S	Wind(LL)	0.12	6	>802	240	Weight: 35 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-6: 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except*

3-6: 2x4 SPF No.2

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

Max Horz 2=128(LC 5)

Max Uplift 5=-118(LC 8), 2=-134(LC 4) Max Grav 5=402(LC 1), 2=500(LC 1)

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

TOP CHORD 4-5=-256/102

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) except (jt=lb) 5=118, 2=134,
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 34 lb up at 2-8-7, 68 lb down and 34 lb up at 2-8-7, and 93 lb down and 55 lb up at 5-6-6, and 93 lb down and 55 lb up at 5-6-6 on top chord, and 3 lb down and 1 lb up at 2-8-7, 3 lb down and 1 lb up at 2-8-7, and 28 lb down and 31 lb up at 5-6-6, and 28 lb down and 31 lb up at 5-6-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

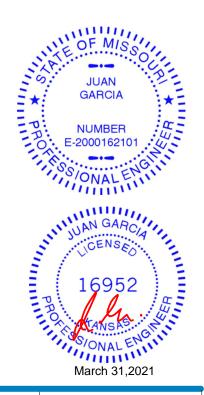
LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 8=-17(F=-8, B=-8) 9=3(F=1, B=1) 11=-56(F=-28, B=-28)



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

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

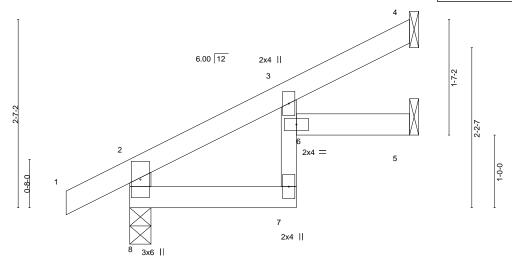
except end verticals.





RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 J25 Jack-Open 2 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITEZ LAGS CAUEL Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-6i1ug5QSylRrEHf7ig855tmA3T3fMpcdy1TYn2zVRyl 3-10-3 2-3-8 2-3-8 04/14/2021 0-10-8 1-6-11 Scale: 3/4"=1



		2-3-8		1-6-11		1	
LOADING (psf) TCLL 25.0 TCDL 10.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.12 BC 0.20 WB 0.00	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (lo -0.01 -0.02 0.01	oc) I/defl 6 >999 7 >999 5 n/a	L/d 360 240 n/a	PLATES GRIP MT20 197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-R	Wind(LL)	0.01	7 >999	240	Weight: 12 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

3-10-3

except end verticals.

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

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

2-3-8

LUMBER-

REACTIONS.

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

3-7: 2x3 SPF No.2 WEBS 2x4 SPF No.2

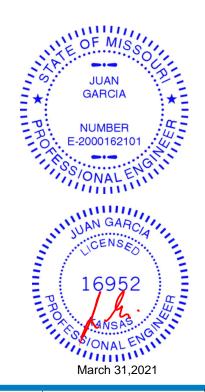
(size) 8=0-3-8, 4=Mechanical, 5=Mechanical

Max Horz 8=86(LC 8)

Max Uplift 8=-29(LC 8), 4=-44(LC 8), 5=-11(LC 8) Max Grav 8=245(LC 1), 4=98(LC 1), 5=58(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

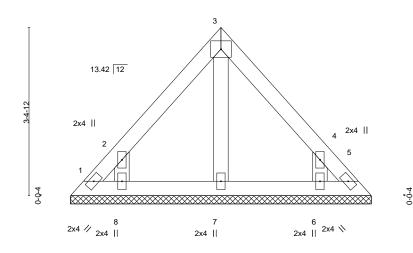




RELEASE FOR Job Truss Truss Type Qty Ply Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 LAY1B **GABLE DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMINITY INCOME. Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-LR4IZAX5qWaZpgsrkDoCzmejw6ARztOy0w8Wb1zVRyc 6-0-15 04/14/2021 3-0-8 3-0-8 Scale = 1:23.3

4x5 =



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc	oc) I/defl L/d	PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) n/a	- n/a 999	MT20 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) n/a	- n/a 999	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00	5 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P			Weight: 21 lb FT = 10%

6-0-15 6-0-15

BRACING-LUMBER-

TOP CHORD TOP CHORD 2x4 SPF No 2 Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 6-0-15.

Max Horz 1=-82(LC 6)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-143(LC 8), 6=-143(LC 9)

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.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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=143, 6=143,
- 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 87 W0 210361 LAY3 **GABLE** 2

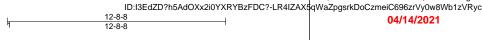
RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

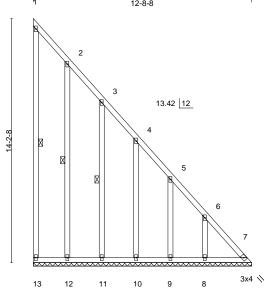
Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMINITY INCOME.

04/14/2021

Scale = 1:67.0





LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	ix-S						Weight: 91 lb	FT = 10%

LUMBER-BRACING-

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

Wheeler Lumber,

Waverly, KS - 66871,

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. **WEBS** 1 Row at midpt 1-13, 2-12, 3-11

REACTIONS. All bearings 12-8-8. (lb) -Max Horz 13=-558(LC 9)

2x4 SPF No.2

Max Uplift All uplift 100 lb or less at joint(s) 13 except 7=-166(LC 7), 12=-137(LC 9), 11=-137(LC 9), 10=-138(LC

9), 9=-125(LC 9), 8=-174(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 13, 12, 11, 10, 9 except 7=557(LC 9), 8=267(LC 16)

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

3-4=-339/141, 4-5=-477/195, 5-6=-607/242, 6-7=-772/313 TOP CHORD

BOT CHORD 12-13=-214/558, 11-12=-214/558, 10-11=-214/558, 9-10=-214/558, 8-9=-214/558,

7-8=-214/558

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 right 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) 13 except (jt=lb) 7=166, 12=137, 11=137, 10=138, 9=125, 8=174.
- 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 87 W0 210361 LAY4 **GABLE** 2

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SELVIMING 2015 COLUMN 18 SERVICES

04/14/2021

Scale = 1:67.0

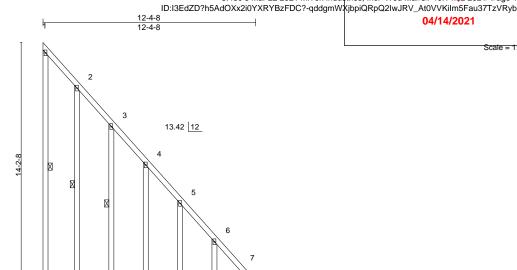


Plate Offsets (X,Y)	[7:0-2-0,0-0-13]			
LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.09	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) n/a - n/a 999 MT20 197/144	
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.11 WB 0.15	Vert(CT) n/a - n/a 999 Horz(CT) 0.01 7 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 90 lb FT = 10%	

10

LUMBER-

Wheeler Lumber,

Waverly, KS - 66871,

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

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

WEBS

9

8

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

except end verticals.

I-4-

3x4 📏

Rigid ceiling directly applied or 10-0-0 oc bracing. 1-13, 2-12, 3-11 1 Row at midpt

REACTIONS. All bearings 12-4-8.

Max Horz 13=-558(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 13 except 7=-184(LC 7), 12=-137(LC 9), 11=-137(LC 9), 10=-137(LC

9), 9=-126(LC 9), 8=-209(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 13, 12, 11, 10, 9 except 7=597(LC 9), 8=267(LC 16)

13

12

11

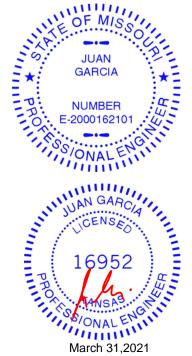
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-4=-339/141, 4-5=-477/195, 5-6=-608/243, 6-7=-800/324

BOT CHORD 12-13=-214/558, 11-12=-214/558, 10-11=-214/558, 9-10=-214/558, 8-9=-214/558,

7-8=-214/558

- 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
- 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) 13 except (jt=lb) 7=184, 12=137, 11=137, 10=137, 9=126, 8=209.
- 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.





RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 LAY5 **GABLE DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMILES OUR RESERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-lpB3zrYl M7qH3z?Esdqg2Bj3OvssRmIFUEddgvzVRya 5-7-12 5-7-12 04/14/2021 5-7-12

4x5 =

13.42 12 5 3x4 📏 3x4 // 12 10 9 8

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-S						Weight: 49 lb	FT = 10%

11-3-7

BRACING-LUMBER-

TOP CHORD 2x4 SPF No 2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD** 2x4 SPF No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SPF No.2

REACTIONS. All bearings 11-3-7.

Max Horz 1=-160(LC 4) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 7 except 11=-145(LC 8), 12=-124(LC 8), 9=-144(LC 9),

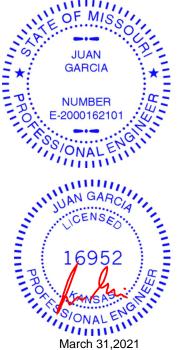
8=-125(LC 9)

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

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

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
- All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7 except (jt=lb) 11=145, 12=124, 9=144, 8=125,
- 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.



Scale = 1:37.6



Job Truss Truss Type Qty Lot 87 W0 210361 LAY6 **GABLE** Job Reference (optional)

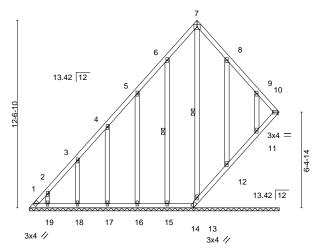
8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITS AND SERVICES Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-m0IRBBZz7Ry8g7aQPLLvaPGDxJCzACvOiuNACMzVRyZ 16-8-11 04/14/2021 5-6-0

Scale = 1:77.1





16-8-11 10-11-15

Plate Of	fsets (X,Y)	[10:Edge,0-1-8]										
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	0.07	Vert(LL)	n/a	` -	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-S	, ,					Weight: 105 lb	FT = 10%

LUMBER-

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

TOP CHORD **BOT CHORD WEBS**

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

1 Row at midpt 7-13, 6-15

REACTIONS. All bearings 16-8-11.

Max Horz 1=360(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-184(LC 6), 10=-139(LC 7), 14=-155(LC 9), 15=-133(LC 8), 16=-140(LC 8), 17=-134(LC 8), 18=-140(LC 8), 19=-114(LC 8), 12=-134(LC 9), 11=-129(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 10, 14, 13, 15, 16, 17, 18, 19, 12, 11 except 1=406(LC 8)

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

1-2=-546/268, 2-3=-442/230, 3-4=-301/175 TOP 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
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 184 lb uplift at joint 1, 139 lb uplift at joint 10, 155 lb uplift at joint 14, 133 lb uplift at joint 15, 140 lb uplift at joint 16, 134 lb uplift at joint 17, 140 lb uplift at joint 18, 114 lb uplift at joint 19, 134 lb uplift at joint 12 and 129 lb uplift at joint 11.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 13, 12, 11.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





Job Truss Truss Type Qty Lot 87 W0 210361 LAY7 **GABLE**

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

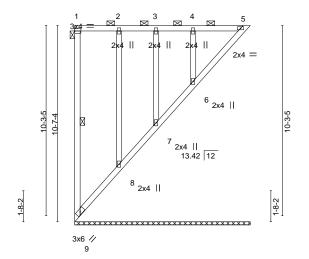
Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITS NUSS CAUEL

04/14/2021

Scale = 1:62.2

ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-ECJp\(\phi\)Xabuk4?IH9dz2t87col1jV6vfDXxY6kkozVRyY 9-5-13 9-5-13



1-6	-0 '	7-11-13					
CSI.	0.49	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	_
	2.49	Veri(LL)	11/a	-	11/a	222	

9-5-13

LOADING (psf) SPACING-2-0-0 25.0 Plate Grip DOL **TCLL** 1.15 **TCDL** 10.0 Lumber DOL 1.15 0.23 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.17 Horz(CT) 0.01 5 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-S

1-6-0

197/144 MT20

PLATES

Weight: 55 lb FT = 10%

GRIP

LUMBER-

Wheeler Lumber,

Waverly, KS - 66871,

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

TOP CHORD **BOT CHORD WEBS**

2-0-0 oc purlins (6-0-0 max.): 1-5, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt 1-9

REACTIONS. All bearings 9-5-13.

(lb) -Max Horz 9=-286(LC 6)

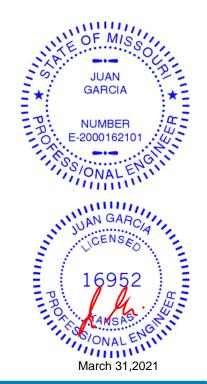
Max Uplift All uplift 100 lb or less at joint(s) 8, 7, 6 except 9=-147(LC 6), 5=-141(LC 5) Max Grav All reactions 250 lb or less at joint(s) 9, 5, 8, 7 except 6=259(LC 1)

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

BOT CHORD 8-9=-213/290

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
- Provide adequate drainage to prevent water ponding.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 9 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) 8, 7, 6 except (jt=lb) 9=147, 5=141.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 5, 8, 7, 6.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

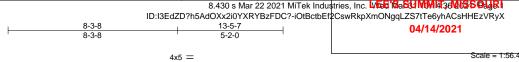






RELEASE FOR Job Truss Truss Type Qty Ply Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 LAY8 **GABLE DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Life Gasti MiMita Life (1955 Out 1975) Wheeler Lumber, Waverly, KS - 66871,



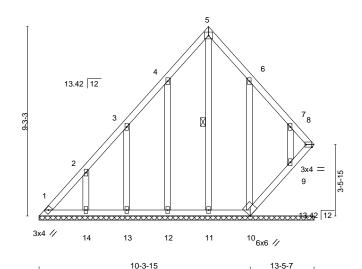


Plate Offsets (X,Y) [8:Edge,0-1	1-8]		10-3-15	5		3-1				
TCLL 25.0 Plate TCDL 10.0 Lum BCLL 0.0 * Rep	CING- 2-0-0 e Grip DOL 1.15 ber DOL 1.15 Stress Incr YES e IRC2018/TPI2014	CSI. TC BC WB Matri	0.07 0.03 0.14 x-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in n/a n/a 0.00	(loc) - - 8	l/defl n/a n/a n/a	L/d 999 999 n/a	PLATES MT20 Weight: 74 lb	GRIP 197/144 FT = 10%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins. **BOT CHORD BOT CHORD** 2x4 SPF No.2 Rigid ceiling directly applied or 10-0-0 oc bracing. **OTHERS** 2x4 SPF No.2 **WEBS** 1 Row at midpt 5-11

REACTIONS. All bearings 13-5-7.

Max Horz 1=235(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-137(LC 7), 12=-140(LC 8), 13=-133(LC 8),

14=-151(LC 8), 10=-277(LC 9), 9=-116(LC 9)

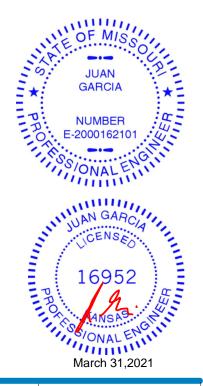
Max Grav All reactions 250 lb or less at joint(s) 1, 11, 12, 13, 14, 9 except 8=254(LC 9), 10=260(LC 16)

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

TOP CHORD 1-2=-342/190

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=137, 12=140, 13=133, 14=151, 10=277, 9=116.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 9.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





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

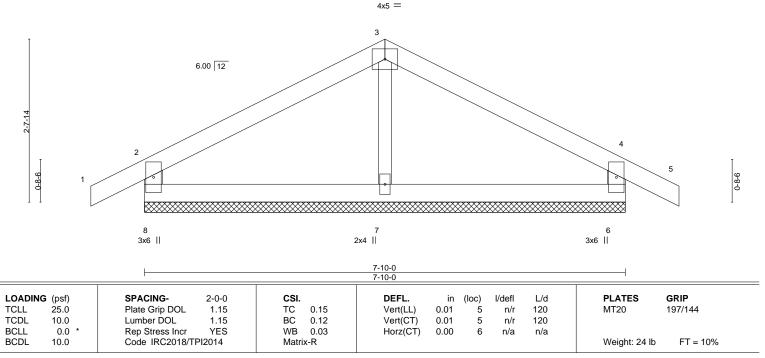
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW Valley 210361 V6 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITES OUR RESERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-PJUziliVI7TR7zVk6sZj3xmFa9HX_q69TmHpdfzVRyN 8<mark>084914/2021</mark> 7-10-0 0-10-8 3-11-0 3-11-0 Scale = 1:18.8



LUMBER-BRACING-

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

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=7-10-0, 6=7-10-0, 7=7-10-0

Max Horz 8=-48(LC 6)

Max Uplift 8=-88(LC 8), 6=-90(LC 9)

Max Grav 8=300(LC 1), 6=300(LC 1), 7=223(LC 1)

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

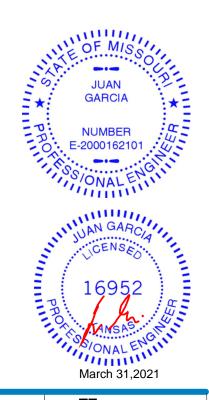
TOP CHORD 2-8=-269/111, 4-6=-269/112

2x3 SPF No.2

NOTES-

OTHERS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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, 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.





RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW Valley 210361 V7 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMILE AND SERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-tW1Lvej73Qblk74wga4yc8lRkYedj7LJiQ0M96zVRyM 3-3-12 3-3-12 04/14/2021 3-3-12 Scale = 1:13.4

4x5 =

2 6.00 12 3 0-0-4

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) **TCLL** 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 0.13 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.06 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 15 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

2x4 ||

LUMBER-

REACTIONS.

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

OTHERS

1=6-6-8, 3=6-6-8, 4=6-6-8 (size) Max Horz 1=-24(LC 9)

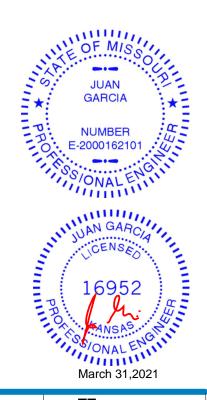
2x4 /

Max Uplift 1=-29(LC 8), 3=-33(LC 9), 4=-3(LC 8) Max Grav 1=126(LC 1), 3=126(LC 1), 4=231(LC 1)

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

NOTES-

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



0-0-4

2x4 >

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

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





RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 V8 Valley **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITES OUR RESERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-Mibk7_klqkj9MHf7EHbC9Mrdey_OSZ1Sw4mwiYzVRyL

04/14/2021 Scale = 1:9.1

2x4 || 6.00 12

> 2x4 || 2x4 /

3

except end verticals.

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

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

LOADIN	IG (psf)	SPACING- 2-0	-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	5	TC	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.1	5	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YE	s	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	1	Matri	x-P	, ,					Weight: 6 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

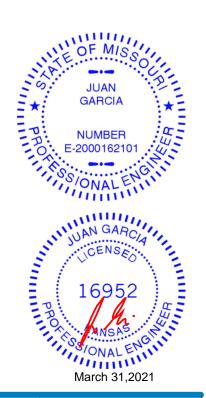
TOP CHORD 2x4 SPF No 2 BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2

> 1=2-5-10, 3=2-5-10 (size) Max Horz 1=37(LC 5) Max Uplift 1=-10(LC 8), 3=-20(LC 8) Max Grav 1=80(LC 1), 3=80(LC 1)

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

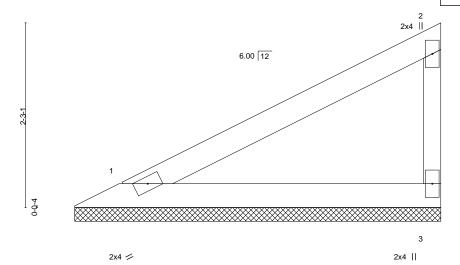
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom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





RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 V9 Valley **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITES OUR RESERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-Mibk7_klqkj9MHf7EHbC9MrZKyybSZ1Sw4mwiYzVRyL 04/14/2021 4-6-2



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 0.26 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 11 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x3 SPF No.2

> 1=4-5-10, 3=4-5-10 (size) Max Horz 1=79(LC 5) Max Uplift 1=-22(LC 8), 3=-42(LC 8) Max Grav 1=170(LC 1), 3=170(LC 1)

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

NOTES-

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



Structural wood sheathing directly applied or 4-6-2 oc purlins,

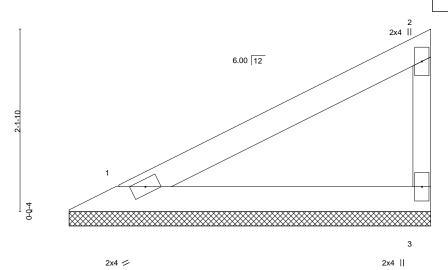
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

Scale = 1:14.1



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 V10 Valley | Job Reference (optional) | DEVELOPMENT SERVICES | 8.430 s Mar 22 2021 MiTek Industries, Inc. | Mac | Mac | Mar | Mar | Mac | **DEVELOPMENT SERVICES** Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-AbRZpDbsQMKiYbJ?5TvcC1uieWCJNbJqPsbqphzVRyW 04/14/2021 4-3-4



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0 TCDL 10.0	Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.23 BC 0.12	1 1 1	n/a - n/a -	n/a n/a	999 999	MT20	197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT) -0	0.00 3	n/a	n/a	Weight: 11 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 1=4-2-12, 3=4-2-12 (size)

Max Horz 1=74(LC 5) Max Uplift 1=-20(LC 8), 3=-39(LC 8) Max Grav 1=159(LC 1), 3=159(LC 1)

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

NOTES-

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



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

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

except end verticals.

Scale = 1:13.5



Job Truss Truss Type Qty Lot 87 W0 210361 V11 Valley Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. Life Gasti MiMilianus (1985) Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-AbRZpDbsQMKiYbJ?5TvcC1uldWDwNbJqPsbqphzVRyW

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

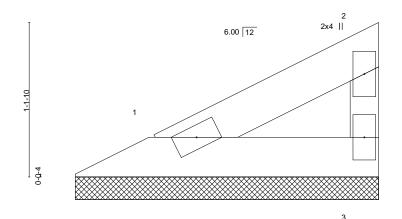
Structural wood sheathing directly applied or 2-3-4 oc purlins,

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

except end verticals.

04/14/2021

Scale = 1:8.5



2-3-4

2x4 || 2x4 /

LOADING	\(\(\)	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	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-P						Weight: 5 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x3 SPF No.2

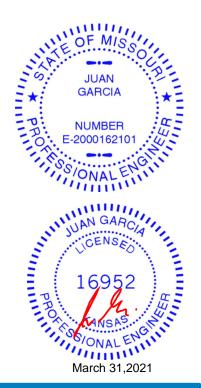
REACTIONS. 1=2-2-12, 3=2-2-12 (size) Max Horz 1=32(LC 5)

Max Uplift 1=-9(LC 8), 3=-17(LC 8) Max Grav 1=69(LC 1), 3=69(LC 1)

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

NOTES-

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



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

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

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

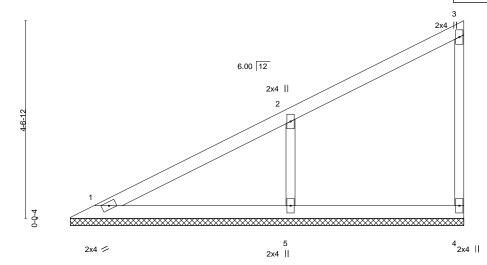


16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS RE 210361 V12 Valley **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SUMMIT 3 LIGHT 18 SUMIT 3 LIGHT 18 SUMMIT 3 LIGHT 18 SUMIT Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-en?y1ZcUBfSZ9kuCeBQrlFQsjwXD61Q_dWLOL7zVRyV 04/14/2021 9-1-8



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.27	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999	WITZU	197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.07 Matrix-S	Horz(CT)	-0.00	4	n/a	n/a	Weight: 26 lb	FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SPF No.2

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

OTHERS 2x3 SPF No.2

> (size) 1=9-1-0, 4=9-1-0, 5=9-1-0 Max Horz 1=175(LC 7)

Max Uplift 4=-28(LC 5), 5=-140(LC 8)

Max Grav 1=160(LC 1), 4=127(LC 1), 5=468(LC 1)

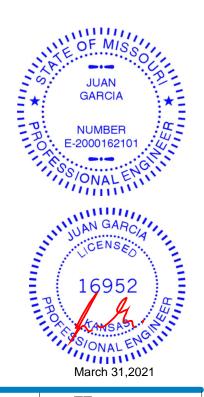
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

2-5=-356/189 WEBS

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) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=140
- 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.

Scale = 1:26.6





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

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

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 V13 Valley **DEVELOPMENT SERVICES** Job Reference (optional)

DEVELOPMENT SERVICES

8.430 s Mar 22 2021 MiTek Industries, Inc. LIGHT 18 SUMMIT 3 LIGHT 18 SUMIT 3 LIGHT 18 SUMMIT 3 LIGHT 18 SUMIT Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-en?y1ZcUBfSZ9kuCeBQrIFQu?wYv62I_dWLOL7zVRyV 7-1-8 7-1-8 04/14/2021 Scale = 1:21.0

3-6-12	1	6.00 \[12 \]	2x4
	2x4 🛩	5 2x4	4 2x4

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 0.19	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT)	-0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-P						Weight: 20 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 **OTHERS** 2x3 SPF No.2

REACTIONS. (size) 1=7-1-0, 4=7-1-0, 5=7-1-0

Max Horz 1=133(LC 5)

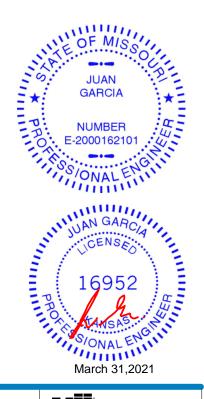
Max Uplift 4=-27(LC 8), 5=-112(LC 8)

Max Grav 1=76(LC 16), 4=142(LC 1), 5=374(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-5=-290/162 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=112
- 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,

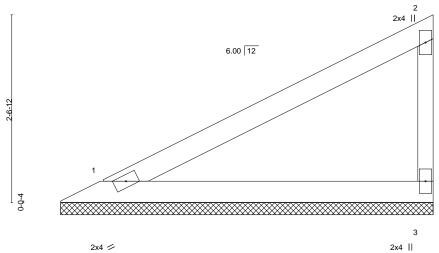
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.



RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIEW 210361 V14 Valley **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITS VILLS OUR REPORT SERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-6zZKEvd6xzaQnuTOCux4HSz0?KsdrVp7sA4xtZzVRyU 5-1-8 04/14/2021 5-1-8 Scale = 1:15.7



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.37	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a	999	WITZU	197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.00 Matrix-P	Horz(CT)	-0.00	3	n/a	n/a	Weight: 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

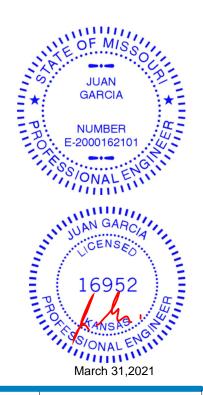
> 1=5-1-0, 3=5-1-0 (size) Max Horz 1=92(LC 5)

Max Uplift 1=-25(LC 8), 3=-48(LC 8) Max Grav 1=198(LC 1), 3=198(LC 1)

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

NOTES-

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



Structural wood sheathing directly applied or 5-1-8 oc purlins,

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

except end verticals.



Job Truss Truss Type Qty Lot 87 W0 210361 V15 Valley Job Reference (optional)

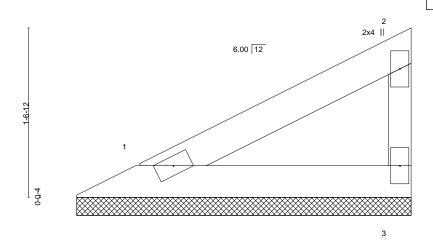
8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITS VILLS OUR REPORT SERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-6zZKEvd6xzaQnuTOCux4HSz4BKvurVp7sA4xtZzVRyU

3-1-8

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

04/14/2021

Scale = 1:10.6



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) n/a 999 197/144 0.10 n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 7 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

2x4 ||

except end verticals.

Structural wood sheathing directly applied or 3-1-8 oc purlins,

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

LUMBER-

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

WEBS 2x3 SPF No.2

REACTIONS. 1=3-1-0, 3=3-1-0 (size) Max Horz 1=50(LC 5)

Max Uplift 1=-14(LC 8), 3=-26(LC 8) Max Grav 1=108(LC 1), 3=108(LC 1)

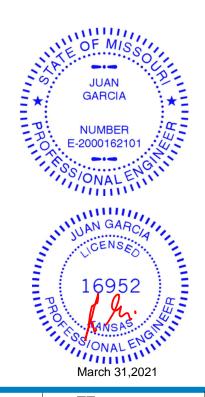
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

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

2x4 /

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





RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION 210361 V16 Valley Job Reference (optional)

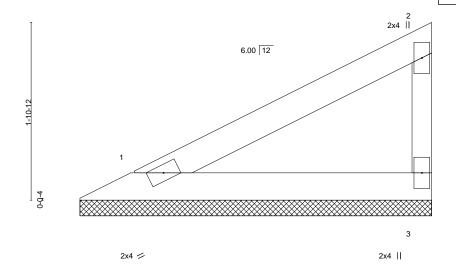
8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITED TO SERVICES Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-bA6iRFekiHiHP22ambSJqgWEskEYay3H5qqVQ?zVRyT 3-9-8

3-9-8

AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

04/14/2021

Scale = 1:12.3



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 0.17 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 9 lb FT = 10%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

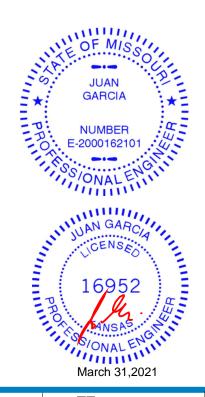
WEBS 2x3 SPF No.2

> 1=3-9-0, 3=3-9-0 (size) Max Horz 1=64(LC 5) Max Uplift 1=-18(LC 8), 3=-34(LC 8) Max Grav 1=138(LC 1), 3=138(LC 1)

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

NOTES-

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



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

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

except end verticals.



Job Truss Truss Type Qty Lot 87 W0 Valley 210361 V19 Wheeler Lumber, Waverly, KS - 66871,

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW **DEVELOPMENT SERVICES**

Job Reference (optional)

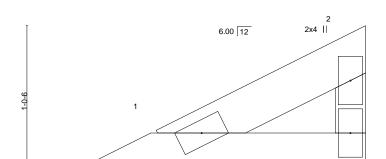
8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITED TO SERVICES ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-bA6iRFekiHiHP22ambSJqgWG1kFjay3H5qqVQ?zVRyT

Structural wood sheathing directly applied or 2-0-12 oc purlins,

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

04/14/2021

Scale: 1.5"=1



2-0-12

2-0-12

3

except end verticals.

2x4 / 2x4 ||

BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) TCLL 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 0.03 n/a n/a MT20 **TCDL** 10.0 Lumber DOL 1.15 ВС 0.01 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 4 lb FT = 10%

LUMBER-

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

REACTIONS. 1=2-0-4, 3=2-0-4 (size)

Max Horz 1=28(LC 5) Max Uplift 1=-8(LC 8), 3=-15(LC 8)

Max Grav 1=60(LC 1), 3=60(LC 1)

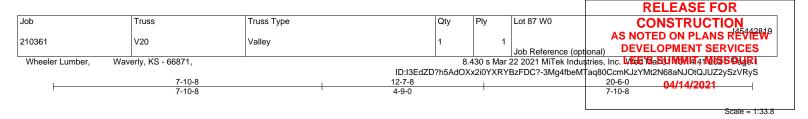
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

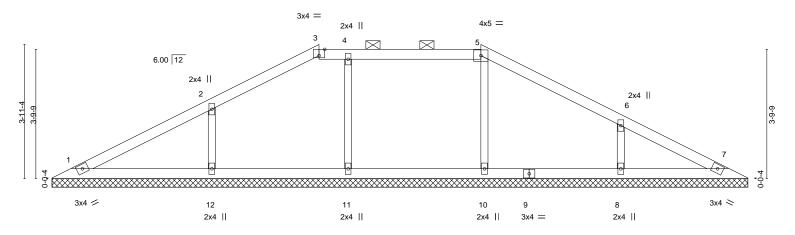
0-0-4

- 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.









0-0-8 Plate Offsets (X,Y)	[3:0-2-0,Edge]		20-5-8	
LOADING (psf) TCLL 25.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.20 BC 0.12	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.09 Matrix-S	Horz(CT) 0.00 7 n/a n/a	Weight: 55 lb FT = 10%

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 3-5. **OTHERS** 2x3 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 20-5-0.

(lb) -Max Horz 1=-63(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 11 except 12=-119(LC 8), 8=-122(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=354(LC 22), 11=354(LC 21), 12=408(LC 1),

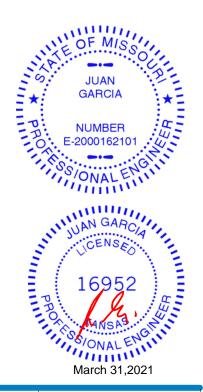
8=379(LC 1)

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

WEBS 5-10=-274/81, 4-11=-280/99, 2-12=-308/166, 6-8=-296/165

NOTES-

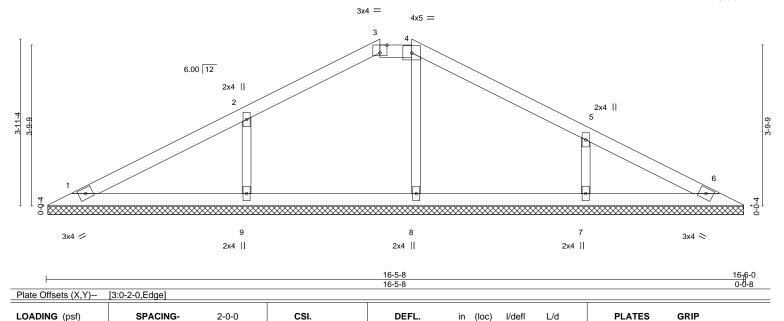
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 11 except (jt=lb) 12=119, 8=122.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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



								KLLLAGLIOK
Job	Truss	Truss Type		Qty	Ply	Lot 87 W0		CONSTRUCTION
210361	V21	Valley		1	1		P	AS NOTED ON PLANS REVIEW
210001	V2.	vanoy				Job Reference (opt		DEVELOPMENT SERVICES
Wheeler Lumber,	Waverly, KS - 66871,			3	3.430 s Mar	22 2021 MiTek Indus	tries, In	c. LVEE 'SaSU WWW 14744MUSS ON RI
			ID:I3Ed2	D?h5Ad	OXx2i0YXR	YBzFDC?-TxMDHch	FmVCjtf	LL?RXF_Wgu9Lb2WI_s0SoiZnzVRyP
	7-10-8		8-7-8			16-	6-0	04/14/2021
	7-10-8		0-9-0			7-1	0-8	0 1/1 1/2021
								Scale = 1:27.2



LUMBER-**BRACING-**

1.15

1.15

YES

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

Vert(LL)

Vert(CT)

Horz(CT)

n/a

n/a

0.00

999

999

n/a

n/a

n/a

n/a

6

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 3-4.

0.21

0.12

0.07

TC

ВС

WB

Matrix-S

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

REACTIONS. All bearings 16-5-0.

(lb) -Max Horz 1=-63(LC 13)

Max Uplift All uplift 100 lb or less at joint(s) 1, 6 except 9=-120(LC 8), 7=-124(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 8=276(LC 1), 9=419(LC 21), 7=385(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-9=-319/167, 5-7=-301/168 WEBS

NOTES-

TCLL

TCDL

BCLL

BCDL

25.0

10.0

0.0

10.0

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

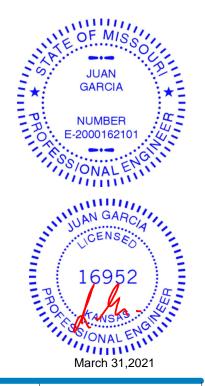
Plate Grip DOL

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
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6 except (jt=lb) 9=120, 7=124.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



197/144

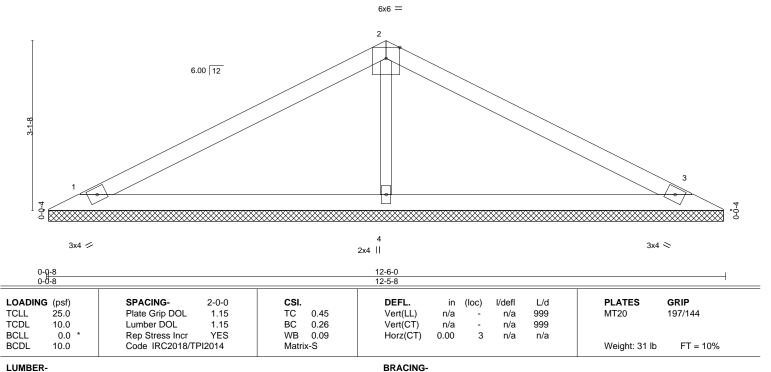
FT = 10%

MT20

Weight: 43 lb



						RELEASE FOR
Job	Truss	Truss Type	Qty	Ply	Lot 87 W0	CONSTRUCTION AS NOTED ON PLANS REVIEW
210361	V22	Valley	1	1		AS NOTED ON PLANS REVIEW 1
210301	VZZ	Valley	'	'	Job Reference (opt	
Wheeler Lumber, W	averly, KS - 66871,		8	3.430 s Mar	22 2021 MiTek Indus	tries, Inc. WEE MaSU WWW 444M 655 Page 1
		ID:I3E				mVCjtfLL?RXF_WgqOLYmWles0SoiZnzVRyP
	6-3-0				12-6-0	04/14/2021
ı	6-3-0	'			6-3-0	0 11 11 2021
						Scale = 1:21.2



TOP CHORD

BOT CHORD

TOP CHORD

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

OTHERS 2x3 SPF No.2

REACTIONS. 1=12-5-0, 3=12-5-0, 4=12-5-0 (size)

Max Horz 1=-50(LC 13)

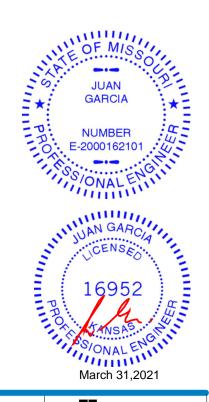
Max Uplift 1=-49(LC 8), 3=-58(LC 9), 4=-30(LC 8) Max Grav 1=238(LC 21), 3=238(LC 22), 4=537(LC 1)

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

2-4=-367/96 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

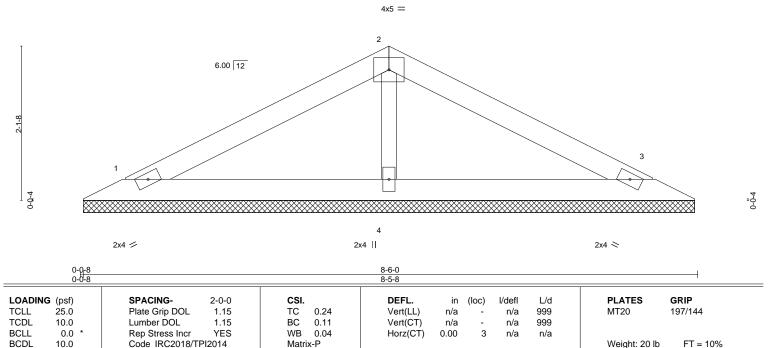
Rigid ceiling directly applied or 10-0-0 oc bracing.





RELEASE FOR Job Truss Truss Type Qty Lot 87 W0 CONSTRUCTION AS NOTED ON PLANS REVIE Valley 210361 V23 **DEVELOPMENT SERVICES** Job Reference (optional)

8.430 s Mar 22 2021 MiTek Industries, Inc. LAGE GASSI MIMITES PAJE I Wheeler Lumber, Waverly, KS - 66871, ID:I3EdZD?h5AdOXx2i0YXRYBzFDC?-x7wbVyhtXpLaVpwYZ92UXjD3RlxNFDe0E6XG5DzVRyO 8-6-0 04/14/2021 4-3-0 Scale: 3/4"=1



BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS REACTIONS.

1=8-5-0, 3=8-5-0, 4=8-5-0 (size)

Max Horz 1=32(LC 12)

Max Uplift 1=-39(LC 8), 3=-45(LC 9), 4=-4(LC 8) Max Grav 1=170(LC 1), 3=170(LC 1), 4=311(LC 1)

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

NOTES-

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



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

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





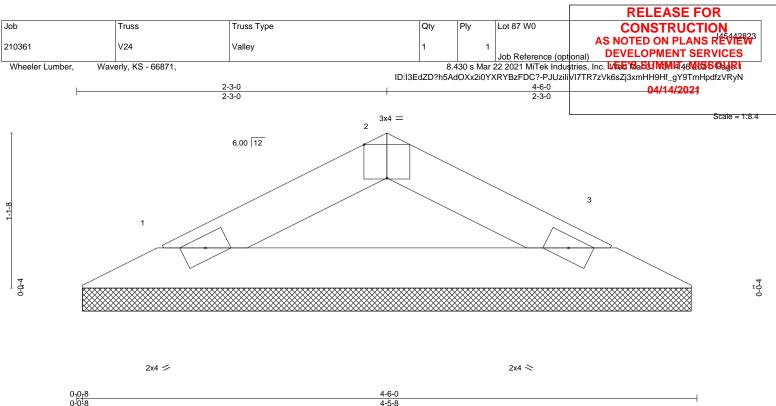


Plate Offsets (X,Y)	[2:0-2-0,Edge]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TF	PI2014	Matri	x-P						Weight: 9 lb	FT = 10%

LUMBER-

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

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-6-0 oc purlins.

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

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

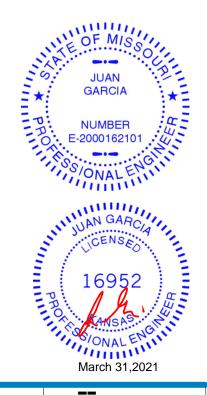
Max Horz 1=14(LC 8) Max Uplift 1=-18(LC 8), 3=-18(LC 9)

Max Grav 1=146(LC 1), 3=146(LC 1)

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

NOTES-

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



MiTek

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW Sevel opment indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth. For 4 x 2 orientation, locate

* Plate location details available in MiTek 20/20 software or upon request.

connector plates.

This symbol indicates the required direction of slots in plates 0- 1/16" from outside

edge of truss.

PLATE SIZE

4 × 4

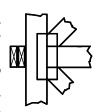
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

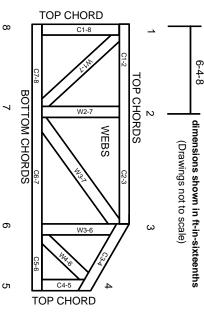
Min size shown is for crushing only

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.

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Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

9

- 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.
- 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.