

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

09/03/2021

RE: Lot 31 OS Lot 31 OS MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Date

3/31/2021

3/31/2021

3/31/2021

Site Information:

Customer: Project Name: Lot 31 OS

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

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

No.

21

22

23

Seal#

145424730

145424731

145424732

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

Wind Code: ASCE 7 - 16[Low Rise] Wind Speed: 115 mph Roof Load: 45.0 psf Floor Load: N/A psf

This package includes 23 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	145424710	B1	3/31/2021
2	I45424711	B2	3/31/2021
3	145424712	B3	3/31/2021
4	145424713	B4	3/31/2021
5	145424714	B5	3/31/2021
6	145424715	B6	3/31/2021
7	145424716	C1	3/31/2021
8	145424717	C2	3/31/2021
9	145424718	C3	3/31/2021
10	145424719	C4	3/31/2021
11	145424720	C5	3/31/2021
12	145424721	D1	3/31/2021
13	145424722	D2	3/31/2021
14	145424723	D3	3/31/2021
15	145424724	D4	3/31/2021
16	145424725	D5	3/31/2021
17	145424726	D6	3/31/2021
18	145424727	D7	3/31/2021
19	145424728	D8	3/31/2021
20	145424729	V1	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: Sevier, Scott

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

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.



Truss Name

V2

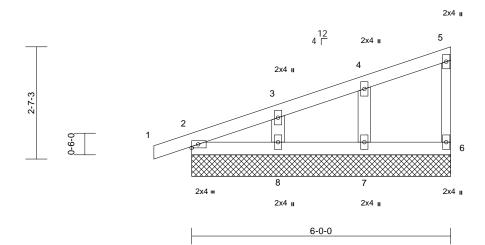
V3

V4

Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	B1	GABLE	1	1	Job Reference (optional)	I45424710

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Scale = 1:26.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	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	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 2=6-0-0, 6=6-0-0, 7=6-0-0, 8=6-0-0

Max Horiz 2=98 (LC 5)

Max Uplift 2=-39 (LC 4), 6=-11 (LC 5), 7=-48

(LC 4), 8=-48 (LC 8)

2=150 (LC 1), 6=67 (LC 1), 7=196 Max Grav

(LC 1), 8=179 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-78/27, 3-4=-55/23, 4-5=-48/16,

5-6=-52/20

BOT CHORD 2-8=-31/23, 7-8=-31/23, 6-7=-31/23

WEBS 3-8=-134/74, 4-7=-154/73

NOTES

- Wind: ASCE 7-16: Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 6, 39 lb uplift at joint 2, 48 lb uplift at joint 8 and 48 lb uplift at joint 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.

LOAD CASE(S) Standard



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

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

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

OTED FOR PLAN REVIEW MITO EVELOPMENT SERVICES

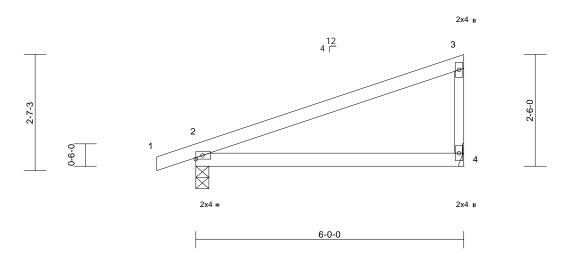
SE FOR CONSTRUCTION

Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	B2	Monopitch	5	1	Job Reference (optional)	145424711

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Page: 1





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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.07	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.13	2-4	>526	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=98 (LC 5)

Max Uplift 2=-88 (LC 4), 4=-55 (LC 8) Max Grav 2=337 (LC 1), 4=252 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-3=-87/55, 3-4=-195/89

BOT CHORD 2-4=-31/23

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) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 55 lb uplift at joint 4 and 88 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021



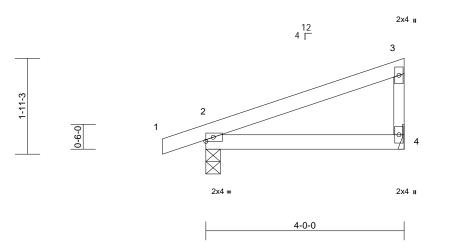
Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	B3	Monopitch	5	1	Job Reference (optional)	45424712

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:42 ID: hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff

1-10-0

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	2-4	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	2-4	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=69 (LC 5)

Max Uplift 2=-75 (LC 4), 4=-35 (LC 8) Max Grav 2=250 (LC 1), 4=159 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/6, 2-3=-69/35, 3-4=-122/57

BOT CHORD 2-4=-21/16

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) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4 and 75 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021

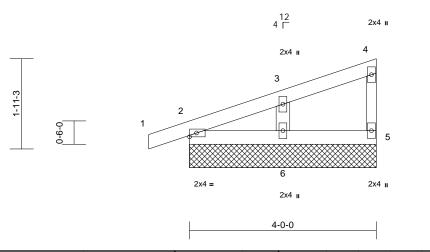


Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	B4	GABLE	1	1	Job Reference (optional)	I45424713

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	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	0.02	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=69 (LC 5)

Max Uplift 2=-47 (LC 4), 5=-11 (LC 4), 6=-50 (LC 8)

2=147 (LC 1), 5=67 (LC 1), 6=198

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-3=-54/28, 3-4=-41/12, 4-5=-53/20

BOT CHORD 2-6=-21/16, 5-6=-21/16

WEBS 3-6=-150/79

NOTES

TOP CHORD

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 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 3-06-00 tall by 2-00-00 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 11 lb uplift at joint 5, 47 lb uplift at joint 2 and 50 lb uplift at joint 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.

LOAD CASE(S) Standard



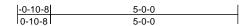
March 31,2021

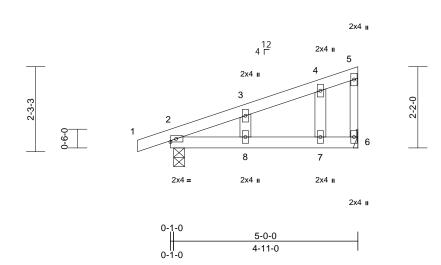


Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	B5	GABLE	1	1	Job Reference (optional)	145424714

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.02	7-8	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.05	7-8	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	7-8	>999	240	Weight: 16 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=84 (LC 5)

Max Uplift 2=-81 (LC 4), 6=-45 (LC 8)

Max Grav 2=293 (LC 1), 6=206 (LC 1)

(lb) - Maximum Compression/Maximum

Tension 1-2=0/6, 2-3=-121/0, 3-4=-78/9, 4-5=-51/24,

TOP CHORD

5-6=-95/25

BOT CHORD 2-8=-21/55, 7-8=-21/55, 6-7=-21/55

WEBS 3-8=-46/49, 4-7=-44/34

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 6 and 81 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

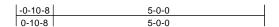
LOAD CASE(S) Standard

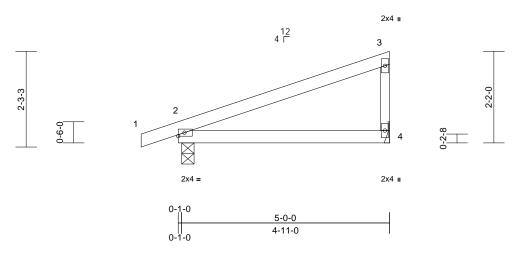


Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	B6	Monopitch	7	1	Job Reference (optional)	I45424715

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:43 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC		Vert(LL)	-0.03	2-4	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс	0.23	Vert(CT)	-0.06	2-4	>933	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=84 (LC 5)

Max Uplift 2=-81 (LC 4), 4=-45 (LC 8) Max Grav 2=293 (LC 1), 4=206 (LC 1)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/6, 2-3=-74/45, 3-4=-159/73

BOT CHORD 2-4=-26/20

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 45 lb uplift at joint 4 and 81 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021

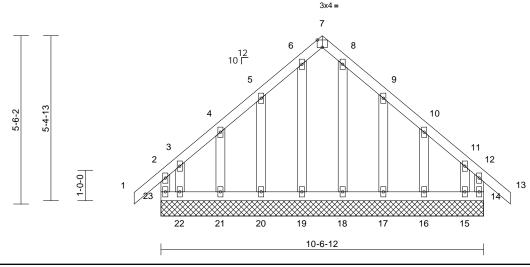


Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	C1	GABLE	1	1	Job Reference (optional)	I45424716

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:43 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:37.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 56 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 14=10-6-12, 15=10-6-12, 16=10-6-12, 17=10-6-12, 18=10-6-12, 19=10-6-12,

20=10-6-12, 21=10-6-12, 22=10-6-12, 23=10-6-12

Max Horiz 23=-164 (LC 6)

Max Uplift 14=-107 (LC 5), 15=-166 (LC 9), 16=-55 (LC 9), 17=-82 (LC 9),

20=-81 (LC 8), 21=-55 (LC 8), 22=-176 (LC 8), 23=-141 (LC 4)

14=200 (LC 15), 15=158 (LC 7), Max Grav 16=129 (LC 16), 17=131 (LC 16),

18=129 (LC 17), 19=133 (LC 18), 20=129 (LC 15), 21=129 (LC 15),

22=184 (LC 6), 23=228 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-23=-163/88, 1-2=0/46, 2-3=-130/110,

3-4=-75/78, 4-5=-60/75, 5-6=-47/119, 6-7=-33/84, 7-8=-28/79, 8-9=-32/111, 9-10=-46/68, 10-11=-58/64, 11-12=-109/85,

12-13=0/46. 12-14=-146/67

22-23=-80/90, 21-22=-80/90, 20-21=-80/90, BOT CHORD

19-20=-80/90, 18-19=-80/90, 17-18=-80/90, 16-17=-80/90, 15-16=-80/90, 14-15=-80/90

WEBS 3-22=-81/97, 4-21=-105/77, 5-20=-102/95, 6-19=-106/5, 8-18=-102/0, 9-17=-104/96,

10-16=-105/77, 11-15=-70/92

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 23, 107 lb uplift at joint 14, 176 lb uplift at joint 22, 55 lb uplift at joint 21, 81 lb uplift at joint 20, 82 lb uplift at joint 17, 55 lb uplift at joint 16 and 166 lb uplift at joint 15.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	C2	GABLE	1	1	Job Reference (optional)	145424717

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:44 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1

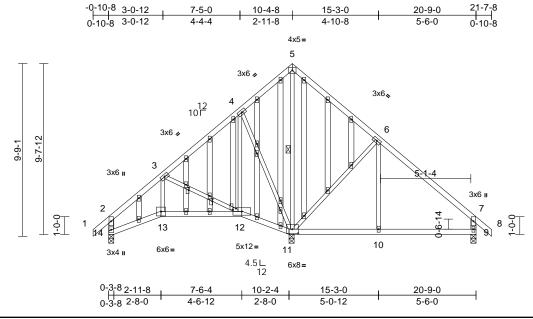


Plate Offsets (X, Y): [11:0-4-0,0-2-13], [12:0-0-15,0-2-0], [17:0-1-9,0-0-4], [20:0-1-9,0-0-4]

					-			-				
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.02	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	12-13	>999	240	Weight: 144 lb	FT = 10%

LUMBER

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

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

2400F 2 0F

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals.

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

WEBS 1 Row at midpt 5-11

REACTIONS (size) 9=0-3-8, 11=0-3-8, 14=0-3-8

14=-276 (LC 6) Max Horiz

Max Uplift 9=-143 (LC 9), 11=-120 (LC 8), 14=-109 (LC 9)

9=434 (LC 22), 11=1285 (LC 1),

Max Grav

14=365 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/46, 2-3=-370/112, 3-4=-98/230, TOP CHORD 4-5=-30/372, 5-6=-7/371, 6-7=-326/160

7-8=0/46, 2-14=-387/122, 7-9=-386/180

BOT CHORD 13-14=-229/393, 12-13=-206/359,

11-12=-167/150, 10-11=-48/162,

9-10=-48/162

WEBS 3-13=-37/193, 3-12=-355/190, 4-12=-43/251,

4-11=-463/212, 5-11=-549/0, 6-11=-437/212,

6-10=0/238

NOTES

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

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 109 lb uplift at joint 14, 143 lb uplift at joint 9 and 120 lb uplift at joint
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	C3	Roof Special	3	1	Job Reference (optional)	145424718

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:45 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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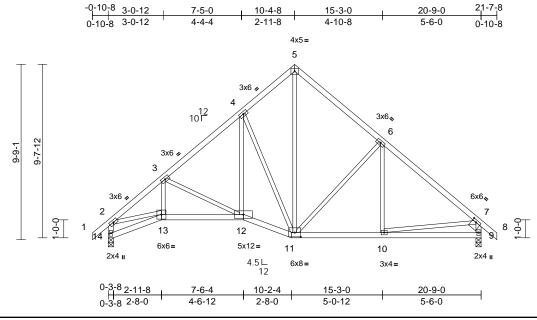


Plate Offsets (X, Y): [7:0-2-12,0-1-8], [11:0-4-0,0-2-13]

		•										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.04	12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.09	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.05	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	12	>999	240	Weight: 99 lb	FT = 10%

LUMBER

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

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

BRACING TOP CHORD

Structural wood sheathing directly applied or 4-9-13 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 14=-276 (LC 6)

Max Uplift 9=-114 (LC 9), 14=-114 (LC 8) Max Grav 9=992 (LC 1), 14=992 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/46, 2-3=-1444/214, 3-4=-1066/162,

4-5=-735/227, 5-6=-788/217, 6-7=-1064/140,

7-8=0/46, 2-14=-974/177, 7-9=-940/142

BOT CHORD 13-14=-261/316, 12-13=-235/1182,

11-12=-68/871, 10-11=-11/727, 9-10=-94/198 **WEBS** 3-13=-35/226, 3-12=-422/197, 4-12=-63/547,

4-11=-684/232, 5-11=-200/606,

6-11=-364/208, 6-10=0/175, 2-13=-98/1021,

7-10=0/534

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 14 and 114 lb uplift at joint 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.

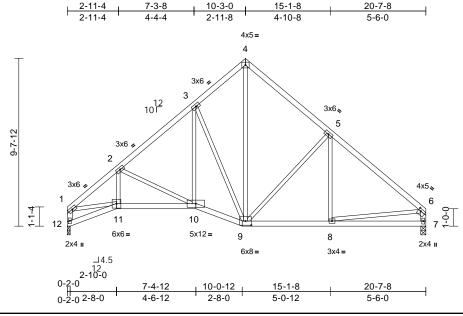
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	C4	Roof Special	2	1	Job Reference (optional)	145424719

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:45 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

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Scale = 1:66.3

Plate Offsets (X, Y): [6:0-1-12,0-1-8], [9:0-4-0,0-2-13]

-	-	l					-	-	-			
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.04	10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.09	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	10	>999	240	Weight: 96 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 12-1,7-6:2x4 SPF WEBS

2400F 2.0E

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-10-9 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 7=0-3-8. 12=0-2-0

Max Horiz 12=-254 (LC 4)

Max Uplift 7=-90 (LC 9), 12=-89 (LC 8)

Max Grav 7=915 (LC 1), 12=915 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1401/211, 2-3=-1058/162,

3-4=-733/227, 4-5=-787/216, 5-6=-1060/136,

1-12=-900/149, 6-7=-862/118

BOT CHORD 11-12=-258/293. 10-11=-249/1142. 9-10=-84/849, 8-9=-25/731, 7-8=-69/164

WEBS 2-11=-40/194, 2-10=-400/196, 3-10=-67/528,

3-9=-668/236, 4-9=-200/607, 5-9=-374/212, 5-8=0/173, 1-11=-117/990, 6-8=-8/574

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 12.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 89 lb uplift at joint 12 and 90 lb uplift at joint 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.

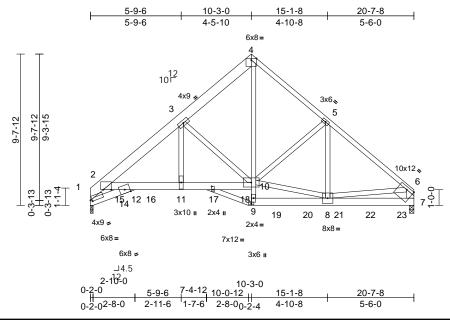
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	C5	Roof Special Girder	1	3	Job Reference (optional)	145424720

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:46 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:73.5

Plate Offsets (X, Y): [1:0-1-4,0-1-2], [2:0-6-1,Edge], [6:Edge,0-2-0], [13:0-2-8,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	-0.07	11-12	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.56	Vert(CT)	-0.12	11-12	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.34	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	11-12	>999	240	Weight: 473 lb	FT = 10%

LUMBER

TOP CHORD 2x8 SP DSS *Except* 4-6:2x4 SPF No.2 BOT CHORD 2x6 SP 2400F 2.0E *Except*

4-9.0-0.13-9:2x4 SPF No.2

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

BRACING

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

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

10-0-0 oc bracing: 9-10

REACTIONS (size) 1=0-2-0. 7=0-3-8

Max Horiz 1=249 (LC 5) Max Uplift 1=-188 (LC 8)

Max Grav 1=5682 (LC 15), 7=6218 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-7163/274, 2-3=-8058/175, 3-4=-5011/0, 4-5=-5075/7, 5-6=-6426/0, 6-7=-4739/0

BOT CHORD 1-14=-275/3589. 12-14=-304/3956.

2-15=0/2842, 12-15=0/2842

12-16=-179/6373, 11-16=-179/6373, 11-17=-182/6415, 17-18=-182/6415,

10-18=-182/6415, 9-10=0/895, 4-10=0/6068, 9-19=0/594, 19-20=0/594, 8-20=0/594, 8-21=0/1282, 21-22=0/1282, 22-23=0/1282,

7-23=0/1282

WEBS 3-11=-272/3799, 3-10=-3485/483,

8-10=0/4382, 5-10=-1434/0, 5-8=0/1559,

6-8=0/3666

NOTES

3-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, 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc, 2x4 - 1 row at 0-7-0 oc. Web connected as follows: 2x4 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 1.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at ioint 1
- 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1033 lb down and 103 lb up at 2-0-0, 1033 lb down and 103 lb up at 4-0-0, 1033 lb down and 103 lb up at 6-0-0, 1033 lb down and 103 lb up at 8-0-0, 1033 lb down and 103 lb up at 10-0-0, 1062 lb down at 12-0-0, 1062 lb down at 14-0-0, 1062 lb down at 16-0-0, and 1062 lb down at 18-0-0, and 943 lb down at 20-0-0 on bottom chord. The design/selection of such connection device (s) is the responsibility of others.

12) Filler applied to ply: 1(Front)

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-6=-70, 1-12=-20, 10-12=-20, 7-9=-20

Concentrated Loads (lb)

Vert: 11=-910 (B), 14=-910 (B), 16=-910 (B), 17=-910 (B), 18=-910 (B), 19=-938 (B), 20=-938 (B), 21=-938 (B), 22=-938 (B), 23=-943 (B)



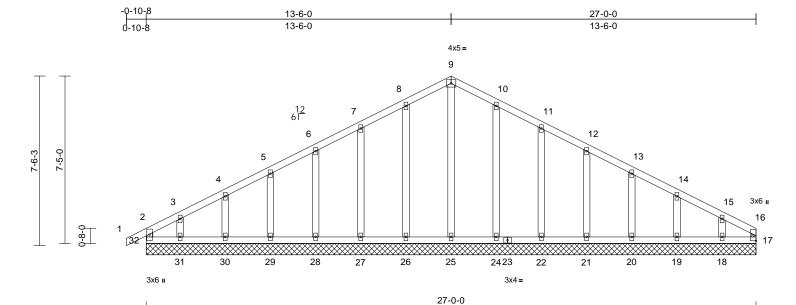
March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	D1	Common Supported Gable	1	1	Job Reference (optional)	145424721

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Page: 1



Loading 2-0-0 CSI **DEFL** L/d **PLATES** GRIP (psf) Spacing in (loc) I/defl TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) n/a 999 MT20 197/144 n/a TCDI 10.0 BC Lumber DOL 1 15 0.04 Vert(CT) n/a n/a 999 **BCLL** 0.0* Rep Stress Incr WB 0.13 Horz(CT) 0.00 17 YES n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-R Weight: 121 lb FT = 10%

LUMBER

Scale = 1:51

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

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

BRACING

Structural wood sheathing directly applied or TOP CHORD 6-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 17=27-0-0, 18=27-0-0, 19=27-0-0, 20=27-0-0, 21=27-0-0, 22=27-0-0, 24=27-0-0, 25=27-0-0, 26=27-0-0, 27=27-0-0, 28=27-0-0, 29=27-0-0,

> 30=27-0-0, 31=27-0-0, 32=27-0-0 Max Horiz 32=121 (LC 12)

Max Uplift 18=-88 (LC 9), 19=-49 (LC 9), 20=-55 (LC 9), 21=-53 (LC 9), 22=-56 (LC 9), 24=-52 (LC 9), 26=-54 (LC 8), 27=-56 (LC 8), 28=-53 (LC 8), 29=-56 (LC 8), 30=-48 (LC 8), 31=-96 (LC 8),

32=-41 (LC 4) 17=76 (LC 18), 18=167 (LC 1), Max Grav 19=183 (LC 22), 20=179 (LC 1), 21=181 (LC 22), 22=178 (LC 1), 24=190 (LC 22), 25=190 (LC 18),

26=190 (LC 21), 27=178 (LC 1), 28=181 (LC 21), 29=178 (LC 21), 30=190 (LC 1), 31=131 (LC 15),

32=151 (LC 1)

(lb) - Maximum Compression/Maximum **FORCES**

Tension

TOP CHORD 2-32=-134/41, 1-2=0/32, 2-3=-144/61, 3-4=-96/69, 4-5=-72/91, 5-6=-57/116, 6-7=-46/142, 7-8=-37/169, 8-9=-41/192,

> 9-10=-42/184, 10-11=-38/139, 11-12=-38/102. 12-13=-38/76. 13-14=-41/50. 14-15=-64/38, 15-16=-101/29, 16-17=-56/1

BOT CHORD

31-32=-23/87, 30-31=-23/87, 29-30=-23/87, 28-29=-23/87, 27-28=-23/87, 26-27=-23/87, 25-26=-23/87, 24-25=-23/87, 23-24=-23/87 22-23=-23/87, 21-22=-23/87, 20-21=-23/87, 19-20=-23/87, 18-19=-23/87, 17-18=-23/87 9-25=-150/0, 8-26=-150/78, 7-27=-138/79, 6-28=-141/78, 5-29=-138/79, 4-30=-147/76, 3-31=-101/94, 10-24=-150/76, 11-22=-138/80, 12-21=-140/77, 13-20=-139/78, 14-19=-143/77, 15-18=-130/90

NOTES

WEBS

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely 6) braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 32, 54 lb uplift at joint 26, 56 lb uplift at joint 27, 53 lb uplift at joint 28, 56 lb uplift at joint 29, 48 lb uplift at joint 30, 96 lb uplift at joint 31, 52 lb uplift at joint 24, 56 lb uplift at joint 22, 53 lb uplift at joint 21, 55 lb uplift at joint 20, 49 lb uplift at joint 19 and 88 lb uplift at joint 18.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

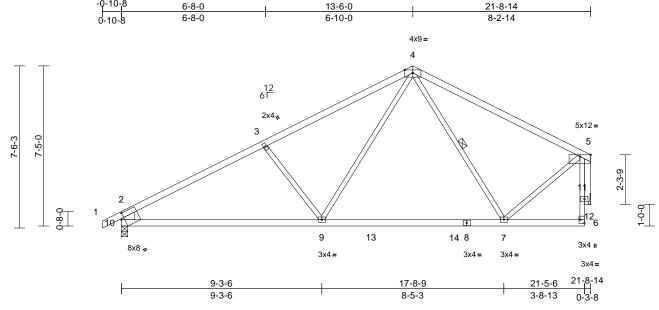
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see 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

SE FOR CONSTRUCTION OTED FOR PLAN REVIEW MITO EVELOPMENT SERVICES

Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	D2	Roof Special	5	1	Job Reference (optional)	145424722

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:48 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:53.4 Plate Offsets (X, Y): [6:Edge,0-2-8], [10:0-1-10,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.95	Vert(LL)	-0.21	7-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.33	7-9	>772	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.24	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	7-9	>999	240	Weight: 80 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 10-2:2x8 SP DSS WEBS

OTHERS 2x4 SPF No.2

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt

REACTIONS (size) 10=0-3-8, 12= Mechanical

Max Horiz 10=175 (LC 8)

Max Uplift 10=-154 (LC 8), 12=-91 (LC 9)

Max Grav 10=1080 (LC 2), 12=992 (LC 2) (lb) - Maximum Compression/Maximum

FORCES

1-2=0/37, 2-3=-1503/220, 3-4=-1291/213, TOP CHORD

4-5=-824/116, 6-12=0/35, 5-12=0/35,

2-10=-948/202

BOT CHORD 9-10=-282/1255, 9-13=-80/737,

 $13\text{-}14\text{-}-80/737,\ 8\text{-}14\text{-}-80/737,\ 7\text{-}8\text{-}-80/737,$

6-7=-64/177

5-7=-17/648, 4-9=-101/693, 3-9=-403/253,

4-7=-256/109, 5-12=-1010/98

WEBS NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 10 and 91 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

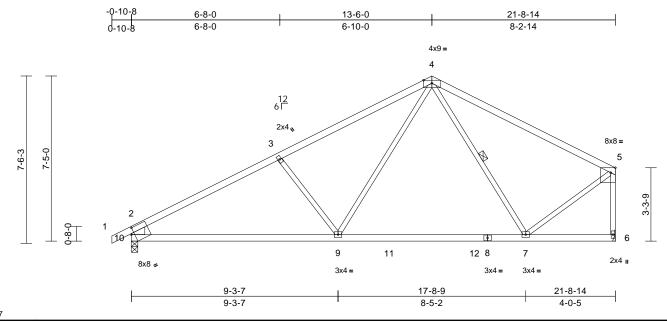
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	D3	Common	4	1	Job Reference (optional)	145424723

Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:48 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:51.7

Plate Offsets	(X, Y):	[5:0-2-8,Edge], [10:0-1-10,0-3-4]
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-							-					
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.20	7-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.33	7-9	>786	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	7-9	>999	240	Weight: 78 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 *Except* 4-5:2x4 SPF 2100F

1.8E

BOT CHORD 2x4 SPF No.2

WEBS 2x3 SPF No.2 *Except* 10-2:2x8 SP DSS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-3-12 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt

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

Max Horiz 10=153 (LC 5) Max Uplift 10=-31 (LC 8)

Max Grav 6=1020 (LC 2), 10=1078 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

1-2=0/37, 2-3=-1499/66, 3-4=-1287/76,

TOP CHORD

4-5=-807/49, 5-6=-999/7, 2-10=-946/80 9-10=-71/1291, 9-11=0/754, 11-12=0/754,

BOT CHORD 8-12=0/754, 7-8=0/754, 6-7=-31/53

4-7=-290/58, 5-7=0/767, 4-9=-12/691,

3-9=-402/155

WEBS NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

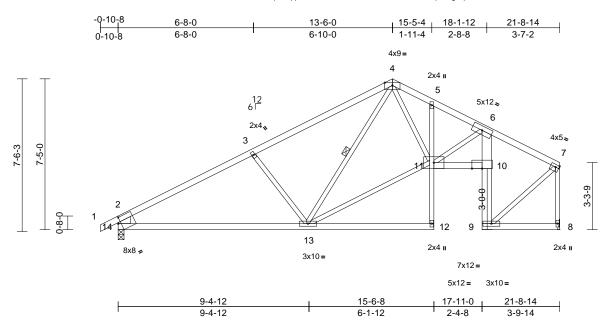


March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	D4	Roof Special	1	1	Job Reference (optional)	145424724

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:49 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:56.7

Plate Offsets (X, Y):	[7:0-2-0,0-1-8],	[14:0-1-10,0-3-4]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.17	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.36	13-14	>717	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.38	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.08	10-11	>999	240	Weight: 97 lb	FT = 10%

LUMBER

2x4 SPF No.2 *Except* 4-7:2x4 SPF 2100F TOP CHORD

1.8E

BOT CHORD 2x4 SPF No.2 *Except* 12-5:2x3 SPF No.2,

6-9:2x6 SP DSS

WEBS 2x3 SPF No.2 *Except* 14-2:2x8 SP DSS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-2 oc purlins, except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 9-10. 1 Row at midpt

WEBS 4-13

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

Max Horiz 14=153 (LC 5) Max Uplift 14=-31 (LC 8)

Max Grav 8=958 (LC 1), 14=1045 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/37. 2-3=-1454/70. 3-4=-1183/77.

4-5=-1463/50, 5-6=-1551/21, 6-7=-721/39,

7-8=-961/18, 2-14=-942/82

BOT CHORD 13-14=-73/1196, 12-13=0/11, 11-12=0/83,

5-11=-100/87, 10-11=-7/1552, 9-10=-410/18,

6-10=-422/36, 8-9=-31/29

WEBS 3-13=-402/156, 4-13=-80/131, 11-13=0/1068, 4-11=-15/832, 6-11=-266/53, 7-9=0/735

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 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
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 31 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021

Page: 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, rerection and bracing of trusses and truss systems, see

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



SE FOR CONSTRUCTION

Job	Truss		Truss Type		Qty	Ply	Lot 31 OS		
Lot 31 OS	D5	Roof Special 1 1 Job Reference (options)	145424725
Wheeler Lumber, Wave	erly, KS - 66871,						22 2021 MiTek Industries, Inc. 7 B70Hq3NSgPqnL8w3uITXbGk		Page: 1
	-0-10-8 0-10-8	6-8-0 6-8-0		13-6-0 6-10-0	15-5- 1-11-			27-0-0 5-9-9	27-10-8 0-10-8
F 0.			6 ¹² 3x6 =		6x6=	2x4 II 5	6x6 \$ 6 4x9.		
7-6-3	8x8 =	A			1.		10x12 = 8		

Scale = 1:53.4

Plate Offsets (X, Y): [2:0-3-5,0-5-12], [10:0-3-0,0-2-4], [13:0-6-12,Edge]

9-4-11 9-4-11

				1	_							
Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.26	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.46	13-14	>690	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.31	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	13-14	>999	240	Weight: 118 lb	FT = 10%

15-6-8

6-1-13

2x4 II

5x12=

17-11-0

2-4-8

2x4 II

21-2-7

3-3-7

16

4x9=

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 15-5,6-12:2x3 SPF

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

WEBS 2x3 SPF No.2 *Except* 17-2,10-8:2x6 SPF

No.2, 11-13:2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-5-2 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 4-16, 3-17

REACTIONS (size) 10=0-5-8, 17=0-3-8

Max Horiz 17=111 (LC 8) Max Uplift 10=-174 (LC 9), 17=-174 (LC 8)

Max Grav 10=1272 (LC 1), 17=1272 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-836/189, 3-4=-1679/256,

4-5=-2714/267, 5-6=-2771/259,

6-7=-4570/325, 7-8=-1931/232, 8-9=0/35, 2-17=-625/185, 8-10=-1208/205

16-17=-260/1629, 15-16=0/18, 14-15=0/80,

5-14=-140/75, 13-14=-164/4035, 12-13=0/44,

6-13=-98/1768, 11-12=-2/30, 10-11=-138/574

3-16=-401/254, 4-16=-362/0,

14-16=-80/1732, 4-14=-113/2031,

6-14=-1935/194, 7-13=-96/2387,

7-11=-1602/182, 3-17=-1117/110,

8-11=-21/1068, 11-13=-170/2262

NOTES

WEBS

BOT CHORD

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

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 10 and 174 lb uplift at joint 17.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



11

6x8=

27-0-0

5-9-9

6x8

March 31,2021



Job	Truss	Truss Type	Qty	Ply	Lot 31 OS			
Lot 31 OS	D6	Common	2	1	Job Reference (optional)	145424726		
Wheeler Lumber, Waverly	, KS - 66871,		Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:50					



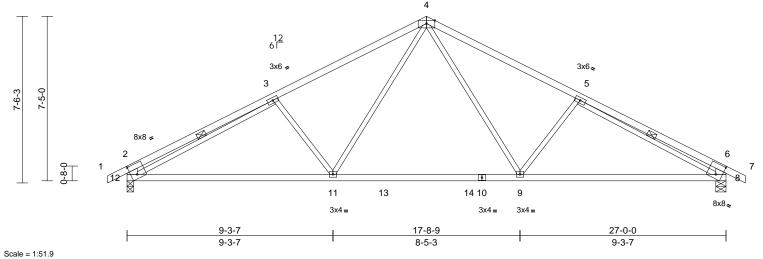


Plate Offsets (X, Y): [2:0-3-5,0-5-12], [8:0-3-5,0-5-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.20	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.34	11-12	>926	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.58	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	9-11	>999	240	Weight: 100 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 12-2,8-6:2x6 SPF **WEBS**

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-12 oc purlins, except end verticals.

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

bracing.

WEBS 1 Row at midpt 3-12, 5-8 **REACTIONS** (size) 8=0-5-8, 12=0-3-8 Max Horiz 12=111 (LC 8)

Max Uplift 8=-174 (LC 9), 12=-174 (LC 8)

Max Grav 8=1320 (LC 2), 12=1320 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

1-2=0/35, 2-3=-874/191, 3-4=-1808/260, TOP CHORD

4-5=-1808/260, 5-6=-874/190, 6-7=0/35,

2-12=-630/186, 6-8=-630/186

11-12=-259/1707, 11-13=-51/1190,

13-14=-51/1190, 10-14=-51/1190, 9-10=-51/1190, 8-9=-149/1705

4-9=-111/695, 5-9=-403/255, 4-11=-111/695,

3-11=-403/255, 3-12=-1150/97, 5-8=-1149/97

WEBS NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 174 lb uplift at joint 12 and 174 lb uplift at joint 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.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	D7	Common Supported Gable	1	1	Job Reference (optional)	145424727

13-6-0

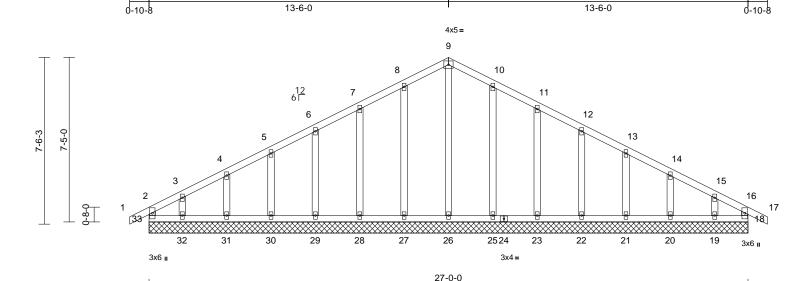
Wheeler Lumber, Waverly, KS - 66871,

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:51 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

27-0-0

Page: 1

27-10-8



Scale = 1:51.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	18	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 122 lb	FT = 10%

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

TOP CHORD

FORCES

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc **BOT CHORD**

bracing.

REACTIONS (size)

18=27-0-0, 19=27-0-0, 20=27-0-0, 21=27-0-0, 22=27-0-0, 23=27-0-0, 25=27-0-0, 26=27-0-0, 27=27-0-0, 28=27-0-0, 29=27-0-0, 30=27-0-0, 31=27-0-0, 32=27-0-0, 33=27-0-0 Max Horiz 33=112 (LC 8)

Max Uplift 18=-15 (LC 5), 19=-81 (LC 9),

20=-50 (LC 9), 21=-55 (LC 9), 22=-53 (LC 9), 23=-56 (LC 9), 25=-53 (LC 9), 27=-54 (LC 8), 28=-56 (LC 8), 29=-53 (LC 8), 30=-56 (LC 8), 31=-48 (LC 8),

32=-96 (LC 8), 33=-40 (LC 4) 18=146 (LC 22), 19=131 (LC 1), Max Grav 20=189 (LC 22), 21=178 (LC 1), 22=181 (LC 22), 23=178 (LC 1), 25=190 (LC 22), 26=194 (LC 18), 27=190 (LC 21), 28=178 (LC 1), 29=181 (LC 21), 30=178 (LC 1),

31=189 (LC 21), 32=133 (LC 15), 33=146 (LC 21)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-33=-129/41, 1-2=0/32, 2-3=-141/63,

3-4=-92/73, 4-5=-64/89, 5-6=-50/115 6-7=-39/140, 7-8=-30/167, 8-9=-35/191, 9-10=-35/183, 10-11=-30/138,

11-12=-31/104, 12-13=-31/78, 13-14=-37/54, 14-15=-59/46, 15-16=-101/29, 16-17=0/32, 16-18=-129/20

32-33=-24/105, 31-32=-24/105,

30-31=-24/105, 29-30=-24/105, 28-29=-24/105, 27-28=-24/105, 26-27=-24/105, 25-26=-24/105, 24-25=-24/105, 23-24=-24/105, 22-23=-24/105, 21-22=-24/105, 20-21=-24/105, 19-20=-24/105

18-19=-24/105

WFBS 9-26=-154/0, 8-27=-150/78, 7-28=-138/79, 6-29=-141/78, 5-30=-138/78, 4-31=-147/76, 3-32=-101/94, 10-25=-150/77, 11-23=-138/80, 12-22=-141/78,

13-21=-138/78, 14-20=-147/77,

15-19=-101/86

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16: Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 33, 15 lb uplift at joint 18, 54 lb uplift at joint 27, 56 lb uplift at joint 28, 53 lb uplift at joint 29, 56 lb uplift at joint 30, 48 lb uplift at joint 31, 96 lb uplift at joint 32, 53 lb uplift at joint 25, 56 lb uplift at joint 23, 53 lb uplift at joint 22, 55 lb uplift at joint 21, 50 lb uplift at joint 20 and 81 lb uplift at joint 19.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 31,2021

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

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

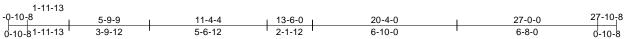
ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

SE FOR CONSTRUCTION OTED FOR PLAN REVIEW MITO EVELOPMENT SERVICES 16023 Swingley Ridge Rd Chesterfield Mo 530 MMIT, MISSOURI

Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	D8	Roof Special	4	1	Job Reference (optional)	145424728

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:51 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



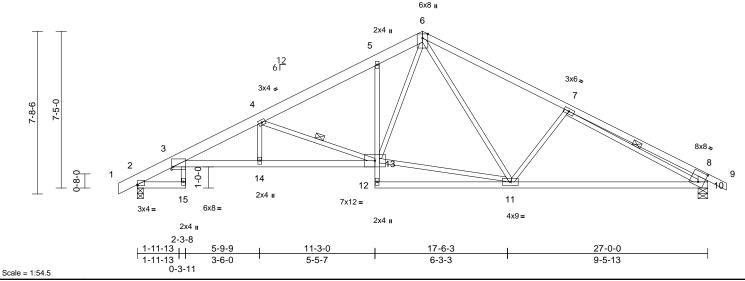


Plate Offsets (X, Y): [2:0-0-4,0-0-7], [3:0-0-13,0-1-8], [8:0-3-5,0-5-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.18	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.39	10-11	>817	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.25	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	15	>999	240	Weight: 125 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP DSS *Except* 6-9:2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 *Except* 3-13:2x4 SPF 2100F

1.8E. 5-12:2x3 SPF No.2

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

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 3-3-10 oc purlins, except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 2-15. 1 Row at midpt 4-13, 7-10

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

Max Horiz 2=122 (LC 8)

Max Uplift 2=-166 (LC 8), 10=-173 (LC 9)

Max Grav 2=1281 (LC 1), 10=1276 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/12, 2-3=-698/152, 3-4=-2838/362,

4-5=-1867/235, 5-6=-1753/311,

6-7=-1690/256, 7-8=-847/194, 8-9=0/35,

8-10=-632/188

BOT CHORD 2-15=-33/0. 3-14=-379/2648

13-14=-378/2648, 12-13=0/90,

5-13=-214/142, 11-12=-8/63,

10-11=-147/1634

WFBS 3-15=0/68, 4-14=0/243, 4-13=-1161/276,

11-13=-45/1207, 6-13=-205/906, 6-11=-116/397, 7-11=-388/249,

7-10=-1113/106

NOTES

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

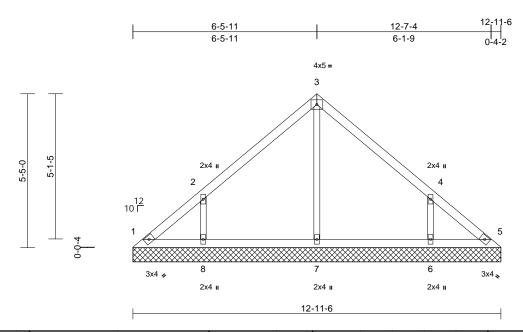
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 166 lb uplift at joint 2 and 173 lb uplift at joint 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.

LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	V1	Valley	1	1	Job Reference (optional)	145424729

Run: 8 43 S. Mar 22 2021 Print: 8 430 S.Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:51 ID: hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?fdNewrCDoi7J4zJC.fdNewrCDoi7J4zJ



Scale = 1:40.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 39 lb	FT = 10%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size)

1=12-11-6, 5=12-11-6, 6=12-11-6, 7=12-11-6, 8=12-11-6

Max Horiz 1=-133 (LC 4)

Max Uplift

1=-34 (LC 4), 5=-11 (LC 5), 6=-178

(LC 9), 8=-178 (LC 8)

1=119 (LC 16), 5=102 (LC 15), Max Grav 6=360 (LC 16), 7=257 (LC 1),

8=360 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-141/103, 2-3=-171/112, 3-4=-167/88, 4-5=-123/67

BOT CHORD

1-8=-39/95, 7-8=-39/95, 6-7=-39/95, 5-6=-39/95

WEBS 3-7=-172/2, 2-8=-293/219, 4-6=-293/219

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1, 11 lb uplift at joint 5, 178 lb uplift at joint 8 and 178 lb uplift at joint 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.

LOAD CASE(S) Standard



Page: 1

March 31,2021

SE FOR CONSTRUCTION

Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	V2	Valley	1	1	Job Reference (optional)	145424730

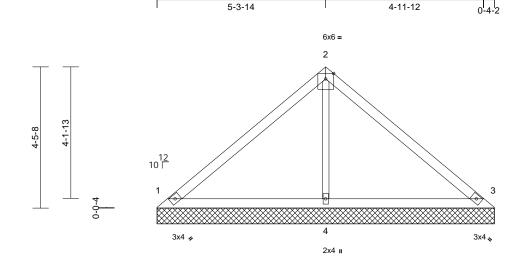
5-3-14

Wheeler Lumber, Waverly, KS - 66871,

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:52 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

10-3-11

Page: 1



Scale = 1:36.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 30 lb	FT = 10%

10-7-13

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

1=10-7-13, 3=10-7-13, 4=10-7-13 REACTIONS (size)

Max Horiz 1=-108 (LC 4)

Max Uplift 1=-42 (LC 8), 3=-54 (LC 9), 4=-9

(LC 8)

1=248 (LC 1), 3=248 (LC 1), 4=394

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-205/95, 2-3=-204/76

BOT CHORD 1-4=-24/95, 3-4=-24/95 **WEBS** 2-4=-242/60

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1, 54 lb uplift at joint 3 and 9 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

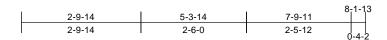


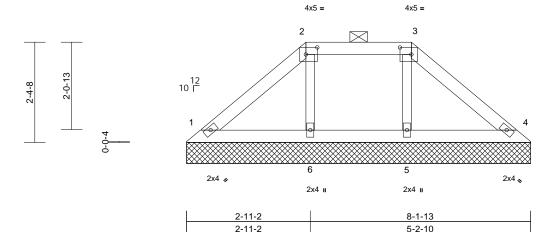
SE FOR CONSTRUCTION OTED FOR PLAN REVIEW

Job	Truss	Truss Type	Qty	Ply	Lot 31 OS	
Lot 31 OS	V3	Valley	1	1	Job Reference (optional)	145424731

Run: 8 43 S. Mar 22 2021 Print: 8 430 S. Mar 22 2021 MiTek Industries. Inc. Tue Mar 30 12:58:52 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1





Scale = 1:27.3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.03	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 lb	FT = 10%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except

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

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

REACTIONS (size) 1=8-1-13, 4=8-1-13, 5=8-1-13,

6=8-1-13 Max Horiz 1=-54 (LC 4)

Max Uplift 1=-24 (LC 9), 4=-32 (LC 9), 5=-14

(LC 4), 6=-27 (LC 5)

1=136 (LC 1), 4=136 (LC 1), 5=201 Max Grav

(LC 22), 6=201 (LC 21)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-90/45, 2-3=-28/51, 3-4=-90/30

BOT CHORD 1-6=-19/46, 5-6=-18/40, 4-5=-16/44

3-5=-148/46, 2-6=-148/59

WEBS NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 7) 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 32 lb uplift at joint 4, 14 lb uplift at joint 5 and 27 lb uplift at joint 6.
- 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.

LOAD CASE(S) Standard



March 31,2021



Job Truss Truss Type Qty Ply Lot 31 OS 145424732 Lot 31 OS V4 Valley Job Reference (optional)

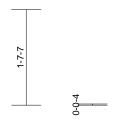
Wheeler Lumber, Waverly, KS - 66871,

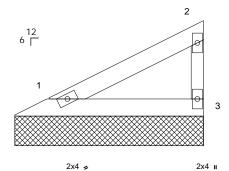
Run: 8.43 S Mar 22 2021 Print: 8.430 S Mar 22 2021 MiTek Industries, Inc. Tue Mar 30 12:58:52 ID:hquPfxpp0CdNHWhMuPizeLzNEki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



2x4 II







3-2-6

Scale = 1:19.5

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-2-14 oc purlins, except end verticals.

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

bracing.

REACTIONS 1=3-2-6, 3=3-2-6 (size)

Max Horiz 1=52 (LC 5)

Max Uplift 1=-14 (LC 8), 3=-28 (LC 8) Max Grav 1=113 (LC 1), 3=113 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-48/31, 2-3=-88/43

BOT CHORD 1-3=-18/14

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 28 lb uplift at joint 3.

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

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER NUMBER PE-200101880

March 31,2021

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

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

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

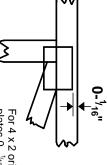
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Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated.
Dimensions are in ft-in-sixteenths.
Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ from outside edge of truss.

This symbol indicates the required direction of slots in connector plates.

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE



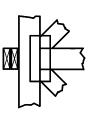
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

Min size shown is for crushing only

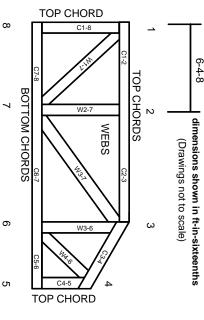
Industry Standards:

National Design Specification for Metal

ANSI/TPI1: DSB-89:

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.

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 Not

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.

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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
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.

21. The design does not take into account any dynamic or other loads other than those expressly stated.

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