

RE: 240617

Lot 134 MN

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer: Avital Homes Project Name: 240617

Lot/Block: Model: Devotion - Craftsman Farmhouse 3rd Car

Address: Subdivision: City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.7

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

This package includes 43 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	164632856	A1	4/3/2024	21	164632876	G2	4/3/2024
2	164632857	A2	4/3/2024	22	164632877	G3	4/3/2024
3	164632858	A2A	4/3/2024	23	164632878	G4	4/3/2024
4	164632859	A3A	4/3/2024	24	164632879	J1	4/3/2024
5	164632860	A4	4/3/2024	25	164632880	J2	4/3/2024
6	164632861	A5	4/3/2024	26	164632881	J3	4/3/2024
7	164632862	B1	4/3/2024	27	164632882	J4	4/3/2024
8	164632863	B2	4/3/2024	28	164632883	J5	4/3/2024
9	164632864	D1	4/3/2024	29	164632884	J6	4/3/2024
10	164632865	D2	4/3/2024	30	164632885	J7	4/3/2024
11	164632866	E1	4/3/2024	31	164632886	J9	4/3/2024
12	164632867	E2	4/3/2024	32	164632887	J10	4/3/2024
13	164632868	E3	4/3/2024	33	164632888	J11	4/3/2024
14	164632869	E4	4/3/2024	34	164632889	LAY1	4/3/2024
15	164632870	E4A	4/3/2024	35	164632890	LAY2	4/3/2024
16	164632871	E5	4/3/2024	36	164632891	LAY4	4/3/2024
17	164632872	E6	4/3/2024	37	164632892	V1	4/3/2024
18	164632873	E7	4/3/2024	38	164632893	V2	4/3/2024
19	164632874	E8	4/3/2024	39	164632894	V3	4/3/2024
20	164632875	G1	4/3/2024	40	164632895	V4	4/3/2024

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, 2024.

Kansas COA: E-943

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek. Any project specific information included is for MiTek customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.







RE: 240617 - Lot 134 MN

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Project Customer: Avital Homes Project Name: 240617

Lot/Block: Subdivision:

Address:

City, County: State:

No.	Seal#	Truss Name	Date
41	164632896	V5	4/3/2024
42	164632897	V6	4/3/2024
43	164632898	V7	4/3/2024





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Site Information:

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Lot/Block: Model: Devotion - Craftsman Farmhouse 3rd Car

Address: Subdivision: City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.7

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

This package includes 43 individual, dated Truss Design Drawings and 0 Additional Drawings.

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1	164632856	A1	4/3/2024	21	164632876	G2	4/3/2024
2	164632857	A2	4/3/2024	22	164632877	G3	4/3/2024
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18	164632873	E7	4/3/2024	38	164632893	V2	4/3/2024
19	164632874	E8	4/3/2024	39	164632894	V3	4/3/2024
20	164632875	G1	4/3/2024	40	164632895	V4	4/3/2024

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, 2024.

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.







RE: 240617 - Lot 134 MN

MiTek, Inc. 16023 Swingley Ridge Rd. Chesterfield, MO 63017 314.434.1200

Site Information:

Project Customer: Avital Homes Project Name: 240617

Lot/Block: Subdivision:

Address:

City, County: State:

No.	Seal#	Truss Name	Date
41	164632896	V5	4/3/2024
42	164632897	V6	4/3/2024
43	164632898	V7	4/3/2024

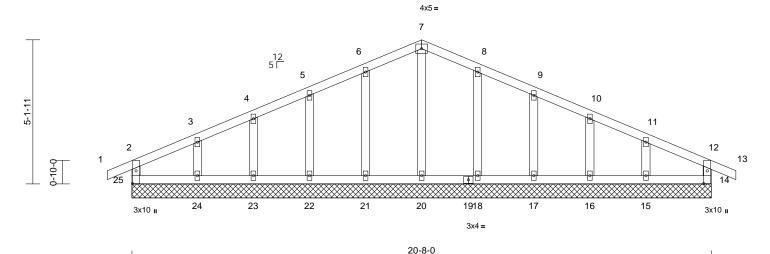
Job Truss Truss Type Qty Ply Lot 134 MN 240617 A1 Common Supported Gable Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632856 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. ue Apr 📭 ID:AxsSR_jr5dfNcPfEqBdDLYyLCZ0-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK





Scale = 1:41.1

Plate Offsets (X, Y): [14:0-5-8,0-1-8], [25:0-5-8,0-1-8]

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	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 80 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 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) 14=20-8-0, 15=20-8-0, 16=20-8-0, 17=20-8-0, 18=20-8-0, 20=20-8-0, 21=20-8-0, 22=20-8-0, 23=20-8-0,

24=20-8-0, 25=20-8-0

Max Horiz 25=-62 (LC 13) Max Uplift 14=-35 (LC 5), 15=-70 (LC 9),

16=-42 (LC 9), 17=-50 (LC 9), 18=-50 (LC 9), 21=-50 (LC 8),

22=-50 (LC 8), 23=-40 (LC 8), 24=-75 (LC 8), 25=-36 (LC 4)

Max Grav 14=174 (LC 22), 15=187 (LC 1), 16=178 (LC 22), 17=179 (LC 1), 18=191 (LC 22), 20=164 (LC 1),

21=191 (LC 21), 22=179 (LC 1), 23=178 (LC 21), 24=187 (LC 1), 25=174 (LC 21)

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

Tension

2-25=-154/49, 1-2=0/27, 2-3=-64/53, 3-4=-37/72, 4-5=-30/93, 5-6=-30/115, 6-7=-34/134, 7-8=-34/128, 8-9=-30/102

9-10=-30/80, 10-11=-31/59, 11-12=-53/43, 12-13=0/27, 12-14=-154/49

BOT CHORD 24-25=-10/50, 23-24=-10/50, 22-23=-10/50,

21-22=-10/50, 20-21=-10/50, 18-20=-10/50, 17-18=-10/50, 16-17=-10/50, 15-16=-10/50,

14-15=-10/50

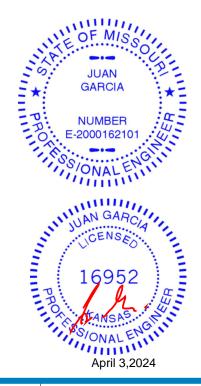
WEBS

7-20=-124/0, 6-21=-151/74, 5-22=-138/73, 4-23=-140/66, 3-24=-143/91, 8-18=-151/74 9-17=-138/73, 10-16=-140/67, 11-15=-143/88

NOTES

- 1) 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
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- 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.
- All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 25, 35 lb uplift at joint 14, 50 lb uplift at joint 21, 50 lb uplift at joint 22, 40 lb uplift at joint 23, 75 lb uplift at joint $24,\,50$ lb uplift at joint 18, 50 lb uplift at joint 17, 42 lb uplift at joint 16 and 70 lb uplift at joint 15.
- 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



TOP CHORD

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



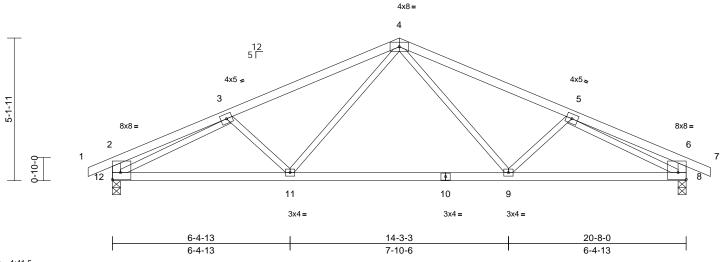
Job Truss Truss Type Qty Ply Lot 134 MN 240617 A2 Common Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632857 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. ID:e7PqeKkUsxnEEZEROu8StlyLCZ?-RfC?PsB70Hq3NSgPqnL8w3uITXbG

ue Apr 📭 WrCDoi





Scale = 1:41.5

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

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	0.56	Vert(LL)	-0.08	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.20	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	9-11	>999	240	Weight: 74 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 12-2,8-6:2x4 SPF WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-10-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD**

bracing

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

Max Horiz 12=-62 (LC 13)

Max Uplift 8=-140 (LC 9), 12=-140 (LC 8) Max Grav 8=988 (LC 1), 12=988 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-3=-272/41, 3-4=-1396/189,

4-5=-1396/189, 5-6=-273/41, 6-7=0/27,

2-12=-280/73 6-8=-280/74

BOT CHORD 11-12=-230/1358, 9-11=-61/973, 8-9=-167/1358

WFBS

4-9=-51/417, 5-9=-256/190, 4-11=-51/417,

3-11=-256/190, 3-12=-1321/196,

5-8=-1321/196

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
- 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.

- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 12 and 140 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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 134 MN 240617 A2A Common Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. ID:e7PqeKkUsxnEEZEROu8StlyLCZ?-RfC?PsB70Hq3NSgPqnL8w3uITXbG

9

3x4 =

8

3x4 =

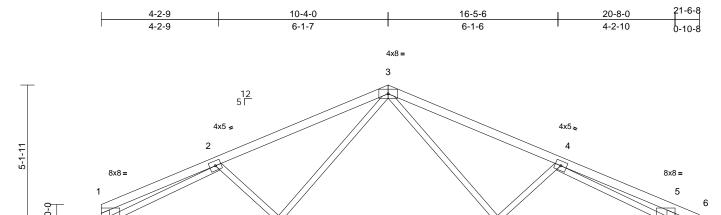
20-8-0

6-4-13

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632858 LEE'S SUMMIT. MISSOURI ue Apr 🕫

RELEASE FOR CONSTRUCTION

WrCDoi



Scale = 1:41.5

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

6-4-13

6-4-13

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.08	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.20	8-10	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	8-10	>999	240	Weight: 73 lb	FT = 10%

14-3-3

7-10-6

LUMBER

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

2x3 SPF No.2 *Except* 11-1,7-5:2x4 SPF WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc **BOT CHORD**

bracing

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

Max Horiz 11=-70 (LC 9)

Max Uplift 7=-140 (LC 9), 11=-117 (LC 8) Max Grav 7=990 (LC 1), 11=915 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-252/33, 2-3=-1406/191, 3-4=-1399/189,

4-5=-273/41, 5-6=0/27, 1-11=-189/44,

5-7=-280/73

BOT CHORD 10-11=-233/1375, 8-10=-62/976,

7-8=-167/1361 WFBS

3-8=-51/417, 4-8=-256/190, 3-10=-53/426,

2-10=-266/192, 2-11=-1357/206,

4-7=-1324/196

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
- 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.

- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 117 lb uplift at joint 11 and 140 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

10

3x4 =



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Truss Type Ply Job Truss Qty Lot 134 MN 240617 A3A 2 Monopitch Job Reference (optiona

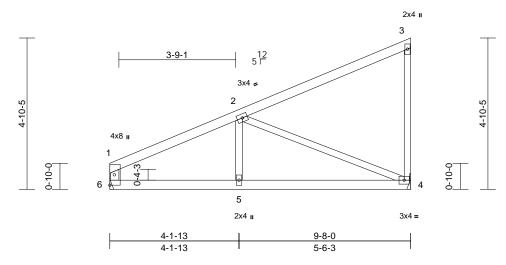
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:e7PqeKkUsxnEEZEROu8StlyLCZ?-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoi1-4zJC?f

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632859 LEE'S SUMMIT. MISSOURI ue Apr 🞾

RELEASE FOR CONSTRUCTION





Scale = 1:37

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	0.39	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.09	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	4-5	>999	240	Weight: 33 lb	FT = 10%

LUMBER LOAD CASE(S) Standard

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

2x3 SPF No.2 *Except* 6-1:2x4 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) 4= Mechanical, 6= Mechanical

Max Horiz 6=194 (LC 5)

Max Uplift 4=-101 (LC 8), 6=-58 (LC 8) Max Grav 4=424 (LC 1), 6=424 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

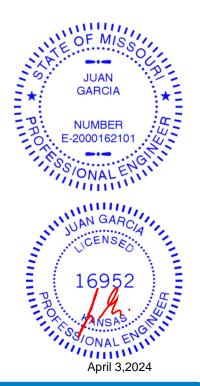
TOP CHORD 1-2=-579/82, 2-3=-138/37, 3-4=-167/67,

1-6=-345/71

BOT CHORD 5-6=-114/484, 4-5=-114/484 WFBS 2-4=-509/164, 2-5=0/187

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
- 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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 101 lb uplift at joint 4 and 58 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.





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

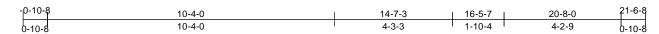


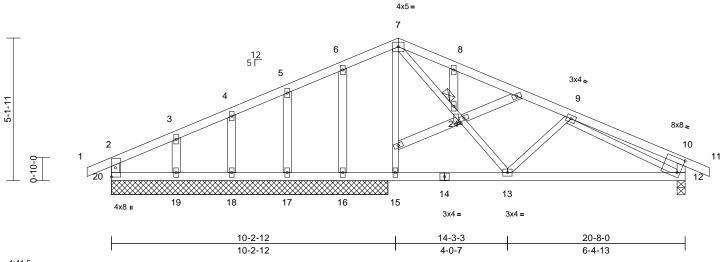
Job Truss Truss Type Qty Ply Lot 134 MN 240617 A4 Common Structural Gable Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632860 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. ID:e7PqeKkUsxnEEZEROu8StlyLCZ?-RfC?PsB70Hq3NSgPqnL8w3ulTXbG

ue Apr 🕫 WrCDoi





Scale = 1:41.5

Plate Offsets (X, Y):	[10:0-1-4,0-6-0],	[22:0-0-2,0-1-3]
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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	0.34	Vert(LL)	-0.05	13-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.09	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.02	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	13-15	>999	240	Weight: 85 lb	FT = 10%

LUMBER

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

20-2,12-10,21-22,22-23:2x4 SPF No.2

OTHERS 2x4 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-8 oc purlins, except end verticals.

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

bracing. JOINTS

1 Brace at Jt(s): 24

REACTIONS (size)

12=0-3-8, 16=9-11-8, 17=9-11-8,

18=9-11-8, 19=9-11-8, 20=9-11-8

Max Horiz 20=-62 (LC 9)

Max Uplift 12=-134 (LC 9), 16=-22 (LC 9), 17=-116 (LC 22), 18=-31 (LC 8),

19=-93 (LC 22), 20=-48 (LC 9) Max Grav 12=735 (LC 1), 16=512 (LC 1),

17=71 (LC 21), 18=281 (LC 1), 19=89 (LC 21), 20=487 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-511/79, 3-4=-459/96,

4-5=-483/119, 5-6=-448/138, 6-7=-489/153, 7-8=-774/195 8-9=-857/170 9-10=-226/44

10-11=0/27, 2-20=-407/53, 10-12=-259/80

BOT CHORD 19-20=0/413, 18-19=0/413, 17-18=0/413, 16-17=0/413, 15-16=0/413, 13-15=0/416,

12-13=-153/903

WEBS 7-24=-100/507, 13-24=-72/444

9-13=-266/172, 9-12=-846/178,

7-15=-115/47, 6-16=-239/49, 5-17=-95/83,

4-18=-186/62, 3-19=-87/100, 8-24=-82/36

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. 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 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.
- All bearings are assumed to be SPF No.2 .
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 20, 134 lb uplift at joint 12, 22 lb uplift at joint 16, 116 lb uplift at joint 17, 31 lb uplift at joint 18 and 93 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



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Ply Job Truss Truss Type Qty Lot 134 MN 240617 **A5** 2 Common Girder Job Reference (optiona

5-4-2

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc.

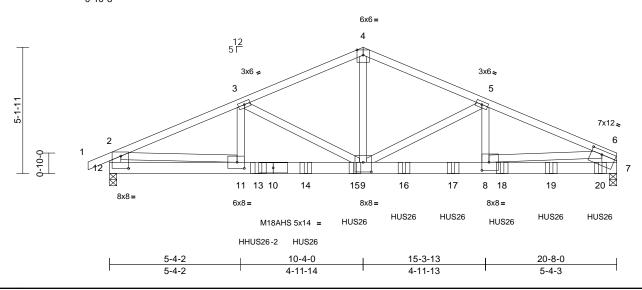
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632861 LEE'S SUMMIT. MISSOURI

ue Apr 🜈

5-4-3



4-11-13



4-11-14

Scale = 1:46.9

Plate Offsets (X, Y): [6:0-5-4,0-2-0], [8:0-3-8,0-4-0], [9:0-4-0,0-4-12], [11:0-3-8,0-3-0], [12:0-3-12,0-6-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	тс	0.87	Vert(LL)	-0.17	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.31	9-11	>786	240	M18AHS	186/179
BCLL	0.0*	Rep Stress Incr	NO	WB	0.81	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.14	9-11	>999	240	Weight: 219 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 12-2:2x6 SP 2400F

2.0E, 7-6:2x8 SP 2400F 2.0E

BRACING

WEBS

Structural wood sheathing directly applied or TOP CHORD 2-11-6 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 7=0-3-8, (req. 0-5-1), 12=0-3-8,

(req. 0-3-12) Max Horiz 12=72 (LC 8)

Max Uplift 7=-984 (LC 9), 12=-842 (LC 8)

Max Grav 7=6427 (LC 1), 12=4764 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-9365/1655, 3-4=-7472/1277,

4-5=-7489/1278, 5-6=-9603/1509,

2-12=-4603/859, 6-7=-4554/749 11-12=-418/1948, 9-11=-1533/8552,

BOT CHORD 8-9=-1349/8790, 7-8=-435/2761

2-11=-1122/6641, 6-8=-920/6068,

3-11=-259/1428, 3-9=-1975/508.

4-9=-870/5324, 5-9=-2248/360,

5-8=-121/1605

NOTES

WEBS

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

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-4-0 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.
- 3) 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
- All plates are MT20 plates unless otherwise indicated.
- 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.
- WARNING: Required bearing size at joint(s) 12, 7 greater than input bearing size.
- All bearings are assumed to be SPF No.2
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 842 lb uplift at joint 12 and 984 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 6-10d Truss) or equivalent at 6-0-13 from the left end to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 8-0-0 from the left end to 20-0-0 to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

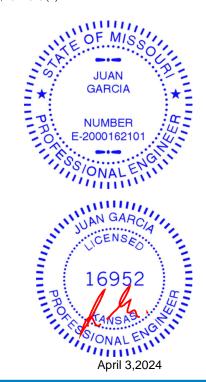
LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 4-6=-70, 7-12=-20 Concentrated Loads (lb)

Vert: 13=-2125 (B), 14=-1029 (B), 15=-1029 (B), 16=-1023 (B), 17=-1023 (B), 18=-1023 (B), 19=-1023 (B), 20=-1028 (B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Truss Type Job Truss Qty Ply Lot 134 MN 240617 В1 Monopitch Supported Gable Job Reference (optiona

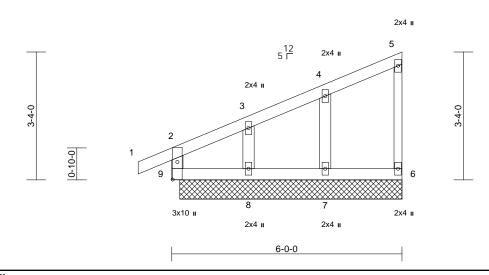
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 02 ID:e7PqeKkUsxnEEZEROu8StlyLCZ?-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoi 7J4zJC?

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632862 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION





Scale = 1:30

Plate Offsets (X, Y): [9:0-5-8,0-1-8]

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	0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 22 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 5-6:2x3 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) 6=5-9-8, 7=5-9-8, 8=5-9-8, 9=5-9-8

Max Horiz 9=136 (LC 7)

Max Uplift 6=-20 (LC 5), 7=-43 (LC 8), 8=-77

(LC 8), 9=-17 (LC 4)

6=68 (LC 1), 7=198 (LC 1), 8=161 Max Grav

(LC 1), 9=162 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-9=-144/32, 1-2=0/27, 2-3=-97/21,

3-4=-72/28, 4-5=-62/26, 5-6=-53/22

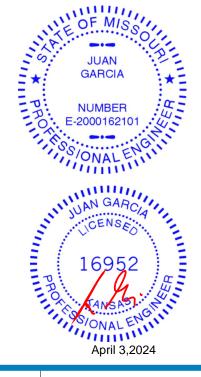
BOT CHORD 8-9=-43/32, 7-8=-43/32, 6-7=-43/32 WFBS 3-8=-123/88. 4-7=-154/66

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
- 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.
- 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.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 9, 20 lb uplift at joint 6, 77 lb uplift at joint 8 and 43 lb uplift at joint 7.
- Non Standard bearing condition. Review required.
- 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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



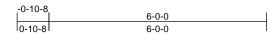
Ply Job Truss Truss Type Qty Lot 134 MN 240617 B2 Monopitch Job Reference (optiona

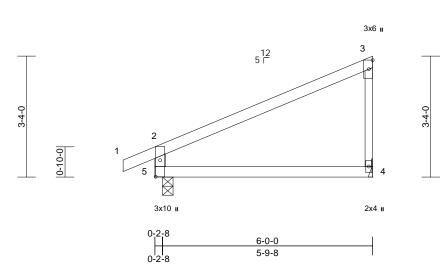
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 🕫 ID:e7PqeKkUsxnEEZEROu8StlyLCZ?-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoi) 34zJC?

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632863 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION





Scale = 1:31.7

Plate Offsets (X, Y): [5:0-5-8,0-1-8]

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	0.46	Vert(LL)	-0.04	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.10	4-5	>724	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-R		Wind(LL)	0.02	4-5	>999	240	Weight: 18 lb	FT = 10%

LOAD CASE(S) Standard

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

2x3 SPF No.2 *Except* 5-2:2x4 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 4= Mechanical, 5=0-3-8 (size)

Max Horiz 5=136 (LC 5)

Max Uplift 4=-62 (LC 8), 5=-58 (LC 8) Max Grav 4=252 (LC 1), 5=337 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-141/33, 3-4=-180/85,

2-5=-294/104

BOT CHORD 4-5=-37/39

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.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 62 lb uplift at joint 4 and 58 lb uplift at joint 5.
- This truss 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. 1/2/2023 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



Ply Job Truss Truss Type Qty Lot 134 MN 240617 D1 Common Supported Gable Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:e7PqeKkUsxnEEZEROu8StlyLCZ?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl

DEVELOPMENT SERVICES 164632864 LEE'S SUMMIT. MISSOURI ue Apr 📭

WrCDoi

RELEASE FOR CONSTRUCTION



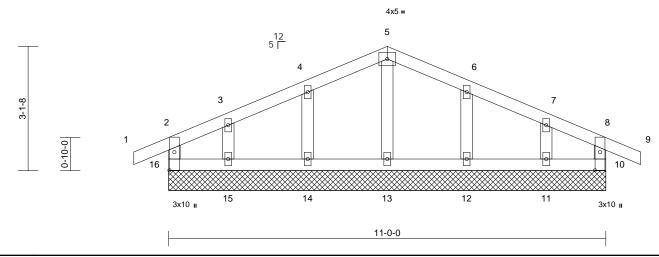


Plate Offsets (X, Y): [10:0-5-8,0-1-8], [16:0-5-8,0-1-8]

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	0.02	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.02	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 38 lb	FT = 10%

LUMBER

Scale = 1:29

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 Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 10=11-0-0, 11=11-0-0, 12=11-0-0,

13=11-0-0, 14=11-0-0, 15=11-0-0, 16=11-0-0

Max Horiz 16=-27 (LC 9)

Max Uplift 10=-41 (LC 5), 11=-47 (LC 9), 12=-53 (LC 9), 14=-52 (LC 8),

15=-50 (LC 8), 16=-42 (LC 4)

Max Grav 10=138 (LC 22), 11=136 (LC 1),

12=200 (LC 22), 13=175 (LC 1),

14=200 (LC 21), 15=136 (LC 1),

16=138 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-16=-125/49, 1-2=0/27, 2-3=-25/41,

3-4=-15/57, 4-5=-22/70, 5-6=-22/65, 6-7=-15/54, 7-8=-20/37, 8-9=0/27,

8-10=-125/48

15-16=-14/28, 14-15=-14/28, 13-14=-14/28, BOT CHORD 12-13=-14/28. 11-12=-14/28. 10-11=-14/28

WFBS 5-13=-135/0, 4-14=-158/78, 3-15=-102/65,

6-12=-158/78, 7-11=-102/64

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. 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) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 16, 41 lb uplift at joint 10, 52 lb uplift at joint 14, 50 lb uplift at joint 15, 53 lb uplift at joint 12 and 47 lb uplift at
- 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





M WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Truss Type Qty Ply Job Truss Lot 134 MN 240617 D2 Common Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632865 LEE'S SUMMIT. MISSOURI

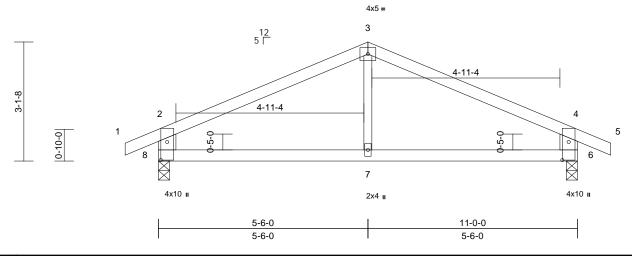
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:e7PqeKkUsxnEEZEROu8StlyLCZ?-RfC?PsB70Hq3NSgPqnL8w3uITXbG

ue Apr 🕫 (WrCDoi)





Scale = 1:30.2

Plate Offsets (X, Y): [6:0-5-11,0-2-0], [8:0-5-11,0-2-0]

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	0.45	Vert(LL)	-0.02	6-7	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	-0.05	6-7	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	7-8	>999	240	Weight: 32 lb	FT = 10%

LUMBER

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

2x6 SPF No.2 *Except* 7-3:2x3 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) 6=0-3-8, 8=0-3-8 Max Horiz 8=-26 (LC 13)

Max Uplift 6=-86 (LC 9), 8=-86 (LC 8)

Max Grav 6=552 (LC 1), 8=552 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-576/79, 3-4=-576/79, 4-5=0/30 2-8=-489/122 4-6=-489/122

BOT CHORD 7-8=-16/453, 6-7=-16/453

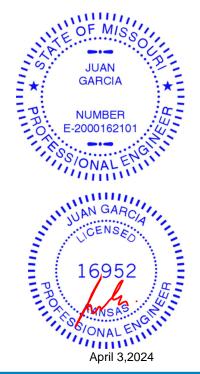
WFBS 3-7=0/205

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.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 8 and 86 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Ī	Job	Truss	Truss Type	Qty	Ply	Lot 134 MN	
	240617	E1	Half Hip Girder	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. Wed Apr 0 1.4434 ID:WvfLUhn_w9lgiAYCdkCP2byLCYx-4xMNe479loKbgBHeEDPnS1R9RC8cwHpurlL

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632866 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

5-11-4 10-0-12 14-0-8 18-7-10 23-8-0 2-0-12 3-10-8 4-1-8 3-11-12 4-7-2 5-0-6 NAILED 5x12= 2x4 II 3x6= 3x10= 3x10 = 20 19 21 12 5 F 18 7 22 8 3-4-0 3-2-5 12 ПП ПП 0-10-0 23 24 25 14 13 Ш ПП Ш 2x4 ı 3x10= \aleph 26 27 10 28 29 15 8x12 = 6x12= LTHJA26 NAILED NAILED 4x8 = 2x4 ı NAII FD 3x4 II 4x10 = NAILED NAILED NAILED NAILED NAILED NAILED 2-3-8 6-1-0 10-0-12 13-10-12 18-7-10 23-8-0 2-3-8 3-9-8 3-11-12 3-10-0 4-8-14 5-0-6

Scale = 1:47.6

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

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	0.82	Vert(LL)	-0.28	12-13	>996	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.51	12-13	>547	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.27	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.24	12-13	>999	240	Weight: 251 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 4-8:2x4 SPF

No.2

2x6 SPF No.2 *Except* 3-12:2x6 SP 2400F **BOT CHORD**

2.0E, 6-11:2x4 SPF No.2

2x4 SPF No.2 *Except* 15-3:2x6 SPF No.2 **WEBS**

WEDGE Left: 2x3 SPF No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-8 max.): 4-8.

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

bracing.

REACTIONS (lb/size) 2=2069/0-3-8, 9=2145/ Mechanical

Max Horiz 2=123 (LC 7)

Max Uplift 2=-370 (LC 4), 9=-435 (LC 5)

FORCES

(lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=0/1, 2-3=-1219/209, 3-4=-6018/1142, 4-16=-6904/1300, 5-16=-6904/1300, 5-17=-6904/1300. 17-18=-6904/1300.

6-18=-6904/1300, 6-19=-7595/1489, 19-20=-7595/1489, 7-20=-7595/1489, 7-21=-3052/625, 21-22=-3052/625,

8-22=-3052/625, 8-9=-2009/473 BOT CHORD 2-15=0/0, 3-14=-1158/5718,

14-23=-1166/5796, 13-23=-1166/5796, 13-24=-1581/7867, 24-25=-1578/7872,

12-25=-1575/7879, 11-12=0/183, 6-12=-76/144, 11-26=-123/615,

26-27=-123/615, 10-27=-123/615, 10-28=-44/67, 28-29=-44/67, 9-29=-44/67

WEBS 3-15=-52/317, 10-12=-523/2527, 7-12=-959/4797, 7-10=-2231/632,

8-10=-673/3448, 4-14=-87/839, 6-13=-1076/250, 4-13=-214/1320,

5-13=-492/231

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Web connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 435 lb uplift at joint 9 and 370 lb uplift at joint 2.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

- 13) Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Left Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to front lace of bottom chord.

 14) Fill all nail holes where hange is in dontact with lumber.

 15) "NAILED" indicates 3-100 (0.148"X3") or 3-120
- (0.148"x3.25") toe-pails per NDS guidlines.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-70,14-8=-70, 2-15=-20, 3-12=-20, 9-11=-20

Concentrated Loads (lbF-2000162101 // Vert: 4=-96 (F), 7=-140 (F), 10=-51 (F), 14=-456 (F), 13=-71 (F), 5=-96 (F), 15=-96 (F), 17=-96 (F), 18=-96 (F), 19=-110 (F), 20=-110 (F), 21=-110 (F), 22=-120 (F), 23=-71 (F), 24=-71 (F), 25=-71 (F), 26=-51 (F), 27=-51 (F), 28=-51 (F), 29=-54 (F)



NOTES

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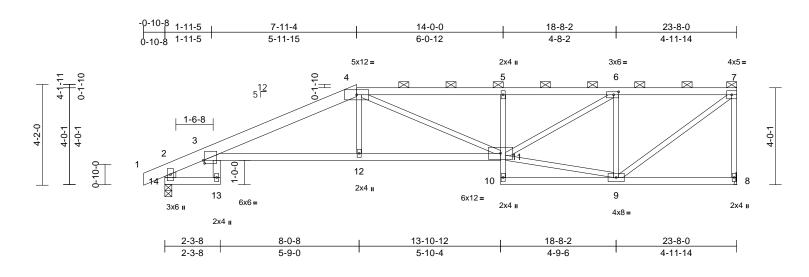
Job	Truss	Truss Type	Qty	Ply	Lot 134 MN
240617	E2	Half Hip	1	1	Job Reference (optional

DEVELOPMENT SERVICES 164632867 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 12 10 17:52 ID:WvfLUhn_w9lgiAYCdkCP2byLCYx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl_WrCDoi794zJC?

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:47.7

Plate Offsets (X, Y):	[3:0-0-10,0-1-8],	, [6:0-2-8,0-1-8]
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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	0.56	Vert(LL)	-0.20	3-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.39	3-12	>724	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.27	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	3-12	>999	240	Weight: 98 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 4-7:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2 *Except* 5-10:2x3 SPF No.2 2x3 SPF No.2 *Except* 13-3:2x4 SPF No.2, **WEBS**

14-2:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-3-0 oc purlins, except end verticals, and

2-0-0 oc purlins (3-4-7 max.): 4-7. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

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

Max Horiz 14=169 (LC 5)

Max Uplift 8=-191 (LC 5), 14=-148 (LC 4)

Max Grav 8=1049 (LC 1), 14=1141 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30 2-3=-390/48 3-4=-2258/317

4-5=-2238/408, 5-6=-2209/402,

6-7=-1139/233, 7-8=-1003/210,

2-14=-1135/163

BOT CHORD 13-14=-27/0. 3-12=-391/2086

11-12=-388/2092, 10-11=0/80,

5-11=-387/162, 9-10=-25/90, 8-9=-51/37

3-13=0/53, 4-12=0/296, 4-11=-94/336,

6-11=-245/1236, 7-9=-252/1414, 6-9=-981/273, 9-11=-214/1073

NOTES

WFBS

- 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
- Provide adequate drainage to prevent water ponding.

- 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.
- All bearings are assumed to be SPF No.2.
- 7) Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 8) bearing plate capable of withstanding 191 lb uplift at joint 8 and 148 lb uplift at joint 14.
- This truss 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.

LOAD CASE(S) Standard





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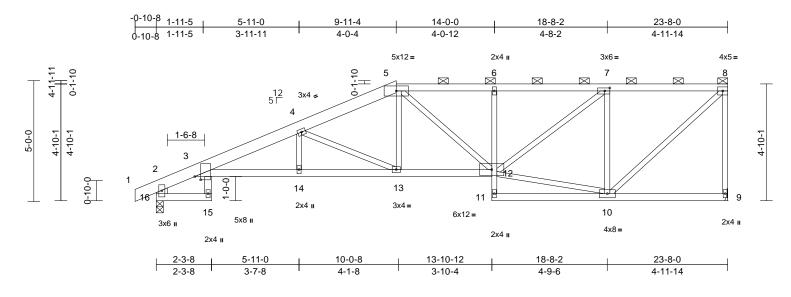
Job	Truss	Truss Type	Qty	Ply	Lot 134 MN
240617	E3	Half Hip	1	1	Job Reference (optiona

LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 1ue Apr 12 10 17:52 ID:WvfLUhn_w9lgiAYCdkCP2byLCYx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl_WrCDoi794zJC?

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632868



Scale = 1:47.7

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	0.52	Vert(LL)	-0.15	14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.27	3-14	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.21	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.12	3-14	>999	240	Weight: 108 lb	FT = 10%

LUMBER

TOP CHORD 2x6 SP 2400F 2.0E *Except* 5-8:2x4 SPF

No.2

BOT CHORD 2x4 SPF No.2 *Except* 6-11:2x3 SPF No.2 2x3 SPF No.2 *Except* 15-3:2x4 SPF No.2, **WEBS**

16-2:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

REACTIONS 9= Mechanical, 16=0-3-8 (size)

Max Horiz 16=205 (LC 5)

Max Uplift 9=-187 (LC 5), 16=-135 (LC 8) Max Grav 9=1049 (LC 1), 16=1141 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30 2-3=-413/36 3-4=-2634/310

4-5=-1884/275, 5-6=-1692/301, 6-7=-1683/300, 7-8=-934/200,

8-9=-1005/205, 2-16=-1135/153 **BOT CHORD**

15-16=-27/0. 3-14=-445/2485.

13-14=-445/2485, 12-13=-325/1691, 11-12=0/79, 6-12=-313/129, 10-11=-13/67,

9-10=-64/47

3-15=0/53, 5-12=-45/153, 7-12=-178/940,

8-10=-221/1264, 5-13=-39/469, 4-13=-889/214, 7-10=-944/268, 10-12=-193/887, 4-14=0/171

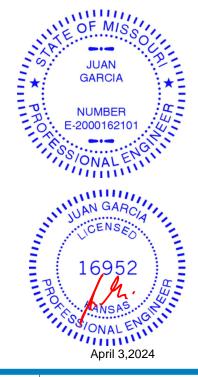
NOTES

WEBS

- 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

- 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 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 9 and 135 lb uplift at joint 16.
- This truss 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

LOAD CASE(S) Standard



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Truss Type Job Truss Qty Ply Lot 134 MN 240617 E4 Common Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632869 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 7 ID:?5Dji1ochTQXKK7OBSkeapyLCYw-RfC?PsB70Hq3NSgPqnL8w3uITXbG

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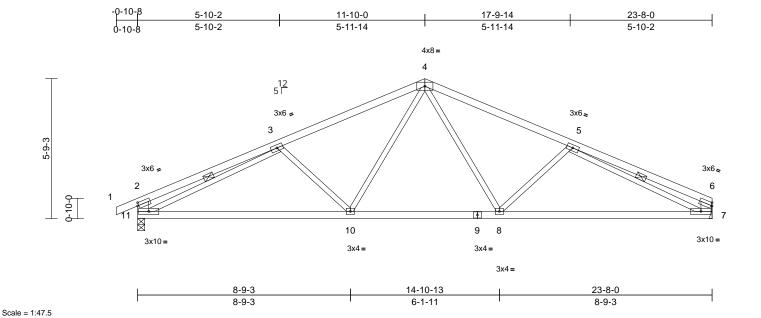


Plate Offsets (X, Y): [2:0-0-10,0-1-8]

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	0.48	Vert(LL)	-0.15	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.31	10-11	>904	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	8-10	>999	240	Weight: 85 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 11-2,7-6:2x6 SPF

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-11 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

WEBS 1 Row at midpt 3-11, 5-7 REACTIONS 7= Mechanical, 11=0-3-8 (size)

Max Horiz 11=80 (LC 8)

Max Uplift 7=-133 (LC 9), 11=-159 (LC 8)

Max Grav 7=1043 (LC 1), 11=1124 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/30, 2-3=-535/105, 3-4=-1519/204,

4-5=-1526/207, 5-6=-450/62, 2-11=-450/134,

6-7=-323/85

10-11=-253/1531, 8-10=-67/1128, BOT CHORD

7-8=-193/1546

WEBS 4-8=-68/441, 5-8=-347/217, 4-10=-65/432,

3-10=-333/213, 3-11=-1253/157,

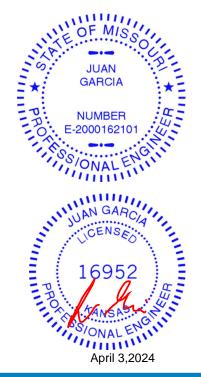
5-7=-1351/205

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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections. 6)
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 11 and 133 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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Job Truss Truss Type Qty Ply Lot 134 MN 240617 E4A Roof Special Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632870 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:?5Dji1ochTQXKK7OBSkeapyLCYw-RfC?PsB70Hq3NSgPqnL8w3uITXb0

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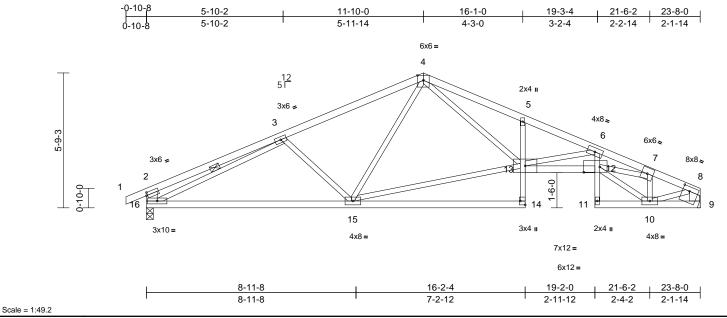


Plate Offsets (X, Y): [2:0-0-10,0-1-8], [8:0-3-8,0-2-4], [12:0-8-4,0-2-12], [14:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.22	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.39	12-13	>711	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.23	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.15	12-13	>999	240	Weight: 95 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

2x4 SPF No.2 *Except* 14-5,6-11:2x3 SPF No.2, 13-12:2x4 SPF 2100F 1.8E **BOT CHORD**

WFBS 2x3 SPF No.2 *Except* 9-8,16-2:2x6 SPF

No.2 **BRACING**

TOP CHORD Structural wood sheathing directly applied or

2-3-3 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing.

WEBS 1 Row at midpt 3-16

REACTIONS (size) 9= Mechanical, 16=0-3-8

Max Horiz 16=80 (LC 8)

Max Uplift 9=-133 (LC 9), 16=-159 (LC 8) Max Grav 9=1043 (LC 1), 16=1124 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/30 2-3=-521/111 3-4=-1522/198

4-5=-2643/380, 5-6=-2642/300, 6-7=-4395/510, 7-8=-1432/182, 8-9=-986/137, 2-16=-444/136

BOT CHORD 15-16=-250/1538, 14-15=0/76, 13-14=0/117,

5-13=-324/154, 12-13=-424/4089,

11-12=0/59, 6-12=-87/1066, 10-11=-16/128,

9-10=-25/138

3-15=-332/216, 4-15=-22/266

13-15=-89/1201, 4-13=-246/1556 6-13=-1716/246, 7-10=-1209/180, 7-12=-265/2705, 10-12=-172/1421,

8-10=-139/1219, 3-16=-1275/147

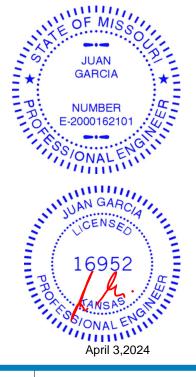
NOTES

WEBS

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.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 9 and 159 lb uplift at joint 16.
- This truss 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 134 MN 240617 E5 2 Common Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632871 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:6KzCsfl6dEw5ripdycfhQzyLCZ_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

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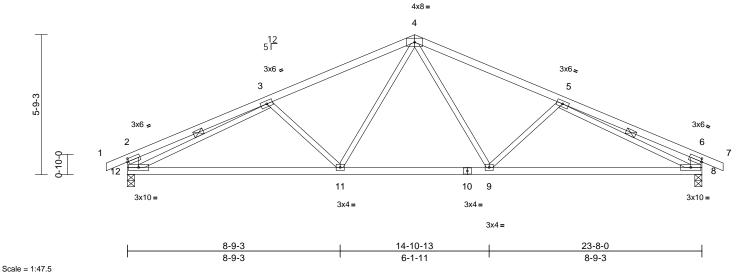


Plate Offsets (X, Y): [2:0-0-10,0-1-8], [6:0-0-10,0-1-8]

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	0.47	Vert(LL)	-0.15	8-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.31	11-12	>904	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.05	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	9-11	>999	240	Weight: 86 lb	FT = 10%

LUMBER

WEBS

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

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-11-13 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

WEBS 3-12, 5-8 1 Row at midpt REACTIONS 8=0-3-8, 12=0-3-8 (size) Max Horiz 12=72 (LC 8)

Max Uplift 8=-159 (LC 9), 12=-159 (LC 8)

Max Grav 8=1122 (LC 1), 12=1122 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/30, 2-3=-535/105, 3-4=-1515/204,

4-5=-1515/204, 5-6=-535/105, 6-7=0/30,

2-12=-450/134, 6-8=-450/133

BOT CHORD 11-12=-245/1528, 9-11=-59/1125,

8-9=-173/1528 **WEBS**

4-9=-65/432, 5-9=-333/213, 4-11=-65/432,

3-11=-333/213, 3-12=-1248/157,

5-8=-1248/157

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.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 12 and 159 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Truss Type Job Truss Qty Ply Lot 134 MN 240617 E6 Hip Job Reference (optiona

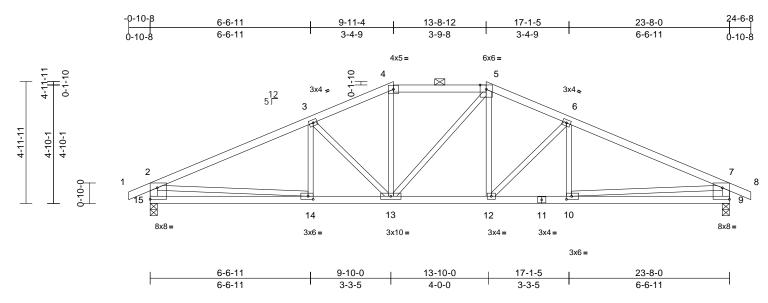
DEVELOPMENT SERVICES 164632872 LEE'S SUMMIT. MISSOUR

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:THn5vNpESnYOyUiak9Ft70yLCYv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi

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RELEASE FOR CONSTRUCTION



Scale = 1:47.1

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	0.52	Vert(LL)	-0.07	10-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.40	Vert(CT)	-0.13	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.04	12	>999	240	Weight: 93 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 15-2,9-7:2x4 SPF WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-11-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-6 max.): 4-5.

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

bracing

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

Max Horiz 15=58 (LC 12)

Max Uplift 9=-143 (LC 9), 15=-143 (LC 8)

Max Grav 9=1123 (LC 1), 15=1123 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/27, 2-3=-1768/183, 3-4=-1466/182, TOP CHORD

4-5=-1302/178, 5-6=-1465/183.

6-7=-1769/183, 7-8=0/27, 2-15=-1053/179,

7-9=-1053/179

BOT CHORD 14-15=-185/527, 13-14=-152/1546,

12-13=-51/1301, 10-12=-94/1546,

9-10=-131/526

WEBS 3-13=-361/133, 4-13=-17/304, 5-13=-131/134, 5-12=-58/321,

6-12=-363/132, 2-14=-20/1023

7-10=-20/1024, 3-14=0/149, 6-10=0/150

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
- Provide adequate drainage to prevent water ponding.

- 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.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 143 lb uplift at joint 15 and 143 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.
- 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





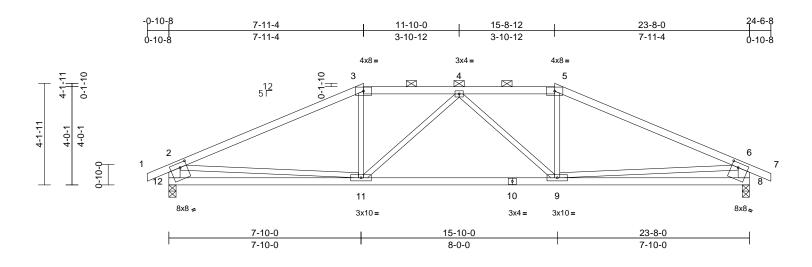
Job	Truss	Truss Type	Qty	Ply	Lot 134 MN
240617	E7	Hip	1	1	Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632873 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 1ue Apr 12 10 17:52 ID:THn5vNpESnYOyUiak9Ft70yLCYv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl_WrCDoi794zJC?

RELEASE FOR CONSTRUCTION



Scale = 1:47

Plate Offsets (X, Y): [8:0-3-4,0-2-4],	[12:0-3-4,0-2-4]
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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	0.83	Vert(LL)	-0.08	11-12	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.18	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	9-11	>999	240	Weight: 85 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

Structural wood sheathing directly applied or TOP CHORD

2-2-0 oc purlins, except end verticals, and

2-0-0 oc purlins (4-8-3 max.): 3-5. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD bracing.

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

Max Horiz 12=42 (LC 12)

Max Uplift 8=-138 (LC 5), 12=-138 (LC 4)

Max Grav 8=1122 (LC 1), 12=1122 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-1710/202, 3-4=-1469/213,

4-5=-1469/213. 5-6=-1710/202. 6-7=0/30.

2-12=-1051/179, 6-8=-1051/179

BOT CHORD 11-12=-281/747, 9-11=-169/1618, 8-9=-242/747

> 3-11=0/324, 5-9=0/324, 2-11=0/862, 6-9=0/862, 4-9=-334/88, 4-11=-334/88

WFBS

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
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 12 and 138 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.
- 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



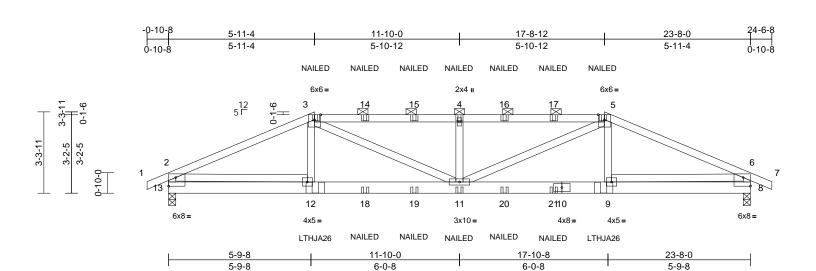
Job	Truss	Truss Type	Qty	Ply	Lot 134 MN	
240617	E8	Hip Girder	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 12 10/11:5/27 ID:xUKU6jptD4gFZdHnltm6fEyLCYu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7342JCff

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632874 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:46.9

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

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	0.64	Vert(LL)	-0.11	11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.20	11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.10	11	>999	240	Weight: 217 lb	FT = 10%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

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

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

bracing.

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

Max Horiz 13=32 (LC 12)

Max Uplift 8=-419 (LC 5), 13=-419 (LC 4) Max Grav 8=2042 (LC 1), 13=2042 (LC 1)

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

Tension

TOP CHORD 1-2=0/27, 2-3=-3824/812, 3-4=-4717/1065,

4-5=-4717/1065, 5-6=-3824/812, 6-7=0/27,

2-13=-1945/434 6-8=-1945/434

BOT CHORD 12-13=-267/875, 11-12=-693/3446, 9-11=-697/3446, 8-9=-238/875

WEBS 3-12=0/390, 3-11=-328/1491, 4-11=-943/435,

5-11=-328/1491, 5-9=0/390, 2-12=-526/2665,

6-9=-526/2665

NOTES

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

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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),

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

Provide adequate drainage to prevent water ponding.

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.

All bearings are assumed to be SPF No.2 .

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 419 lb uplift at joint 13 and 419 lb uplift at joint 8.

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) Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Right Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to back face of bottom chord.

13) Use Simpson Strong-Tie LTHJA26 (LTHJA26 on 2 ply, Left Hand Hip) or equivalent at 17-8-6 from the left end to connect truss(es) to back face of bottom chord.

Fill all nail holes where hanger is in contact with lumber.

15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

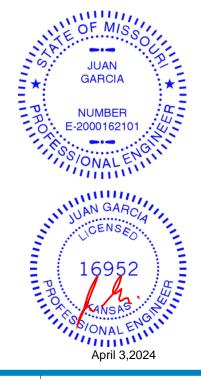
LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1 15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-5=-70, 5-6=-70, 6-7=-70, 8-13=-20

Concentrated Loads (lb)

Vert: 3=-110 (B), 5=-110 (B), 12=-405 (B), 11=-51 (B), 4=-110 (B), 9=-405 (B), 14=-110 (B), 15=-110 (B), 16=-110 (B), 17=-110 (B), 18=-51 (B), 19=-51 (B), 20=-51 (B), 21=-51 (B)



unless otherwise indicated.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 134 MN 240617 G1 Hip Girder Job Reference (optiona

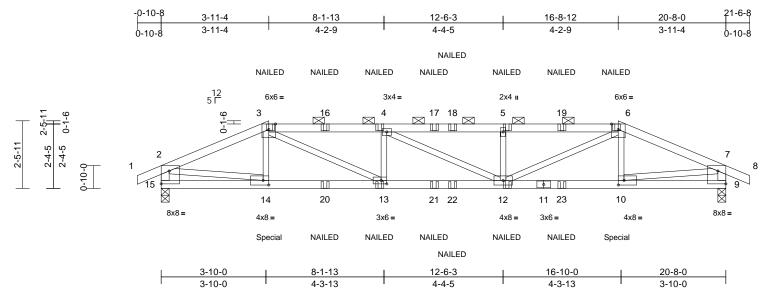
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632875 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:ckExEkkoCqicwaFTr_qPvozUnx5-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

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RELEASE FOR CONSTRUCTION



Scale = 1:42.2

Plate Offsets (X, Y): [9:Edge,0-5-11], [10:0-2-8,0-2-0], [13:0-2-8,0-1-8], [14:0-2-8,0-2-0], [15:Edge,0-5-11]

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	0.69	Vert(LL)	-0.18	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.33	12-13	>732	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.16	12-13	>999	240	Weight: 74 lb	FT = 10%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 15-2,9-7:2x4 SPF

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-6-11 oc purlins, except end verticals, and

2-0-0 oc purlins (2-8-8 max.): 3-6.

BOT CHORD Rigid ceiling directly applied or 6-9-14 oc

bracing

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

15=-18 (LC 6) Max Horiz

Max Uplift 9=-319 (LC 5), 15=-319 (LC 4)

Max Grav 9=1451 (LC 1), 15=1451 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27, 2-3=-2384/537, 3-4=-3397/806,

4-5=-3392/803, 5-6=-3395/804.

6-7=-2384/537, 7-8=0/27, 2-15=-1399/332,

7-9=-1399/332

BOT CHORD 14-15=-93/303. 13-14=-459/2155.

12-13=-753/3394, 10-12=-461/2155

9-10=-79/303

WEBS 3-14=-10/97, 6-10=-10/97, 2-14=-408/1875,

7-10=-409/1875, 3-13=-328/1421, 6-12=-327/1418, 4-13=-489/226,

4-12=-28/23, 5-12=-478/225

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
- Provide adequate drainage to prevent water ponding.

- 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.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 319 lb uplift at joint 15 and 319 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 214 lb down and 55 lb up at 3-11-4, and 214 lb down and 55 lb up at 16-8-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-3=-70, 3-6=-70, 6-7=-70, 7-8=-70, 9-15=-20

Concentrated Loads (lb)

Vert: 3=-45 (F), 6=-45 (F), 14=-214 (F), 10=-214 (F), 13=-23 (F), 12=-23 (F), 4=-45 (F), 5=-45 (F), 16=-45 (F), 17=-45 (F), 18=-45 (F), 19=-45 (F), 20=-23 (F), 21=-23 (F), 22=-23 (F), 23=-23 (F)





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 134 MN
240617	G2	Hip	1	1	Job Reference (option

5-10-0

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 10/1:50 ID:kEWszAvx8pLmzalz5DZSxXzUnwu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632876 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

0-10-8 21-6-8 5-11-4 10-4-0 14-8-12 20-8-0 0-10-8 5-11-4 4-4-12 4-4-12 5-11-4 4x5 = 4x5 = 3x4 = 3 5 12 5 Г \bowtie 3-3-11 3-2-1 3-2-1 \bigotimes 11 10 9 8x8 = 8x8= 3x4 = 3x10 = 3x10 = 5-10-0 14-10-0 20-8-0

Scale = 1:42.3

Plate Offsets	(X, Y):	[8:Edge,0-5-11],	[12:Edge,0-5-11]
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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	0.46	Vert(LL)	-0.15	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.34	9-11	>723	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.05	9-11	>999	240	Weight: 73 lb	FT = 10%

9-0-0

LUMBER

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

2x3 SPF No.2 *Except* 12-2,8-6:2x4 SPF WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

4-3-7 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-15 max.): 3-5.

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

bracing.

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

Max Horiz 12=-29 (LC 13)

Max Uplift 8=-135 (LC 5), 12=-135 (LC 4)

Max Grav 8=988 (LC 1), 12=988 (LC 1)

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

Tension

TOP CHORD 1-2=0/27, 2-3=-1533/188, 3-4=-1333/194,

4-5=-1333/194, 5-6=-1533/188, 6-7=0/27,

2-12=-943/157, 6-8=-943/157

BOT CHORD 11-12=-163/422, 9-11=-226/1613,

8-9=-136/422 WFBS 3-11=0/310, 4-11=-427/136, 4-9=-427/136,

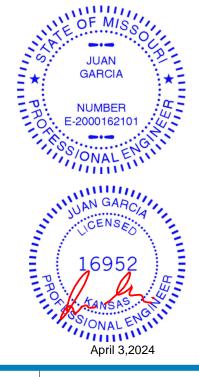
5-9=0/310, 2-11=-38/932, 6-9=-38/932

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
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 12 and 135 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.
- 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



5-10-0

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Truss Type Job Truss Qty Ply Lot 134 MN 240617 G3 Hip Job Reference (optiona

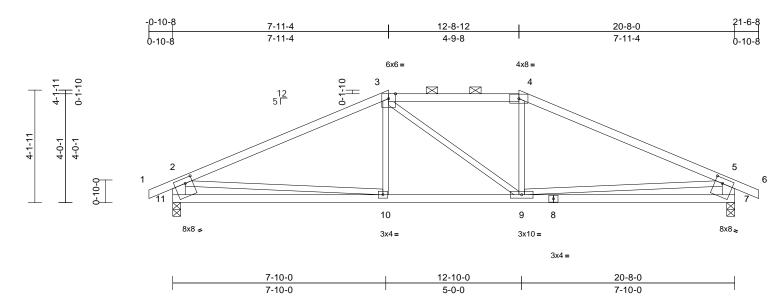
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632877 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:GJUvKe5_NkMUu1z11arCavzUnwe-RfC?PsB70Hq3NSgPqnL8w3uITXb0

ue Apr 🕫 KWrCDo

RELEASE FOR CONSTRUCTION



Scale = 1:42.4

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	тс	0.80	Vert(LL)	-0.10	10-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.20	10-11	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.03	9-10	>999	240	Weight: 75 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 11-2,7-5:2x6 SPF WEBS

BRACING

TOP CHORD

Structural wood sheathing directly applied or 3-4-15 oc purlins, except end verticals, and

2-0-0 oc purlins (5-2-10 max.): 3-4. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing

REACTIONS 7=0-3-8, 11=0-3-8 (size) Max Horiz 11=42 (LC 8)

Max Uplift 7=-122 (LC 9), 11=-122 (LC 8)

Max Grav 7=987 (LC 1), 11=987 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/30, 2-3=-1404/152, 3-4=-1189/169, TOP CHORD

4-5=-1405/152, 5-6=0/30, 2-11=-911/168,

5-7=-912/167

BOT CHORD 10-11=-276/731, 9-10=-62/1189,

7-9=-237/730

WFBS 3-10=0/221, 3-9=-150/150, 4-9=0/221,

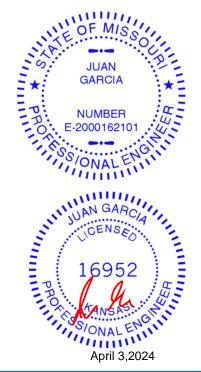
2-10=0/619, 5-9=0/620

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
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 122 lb uplift at joint 11 and 122 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.
- 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





Ply Job Truss Truss Type Qty Lot 134 MN 2 240617 G4 Hip Girder Job Reference (optiona

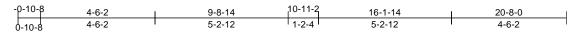
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632878 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

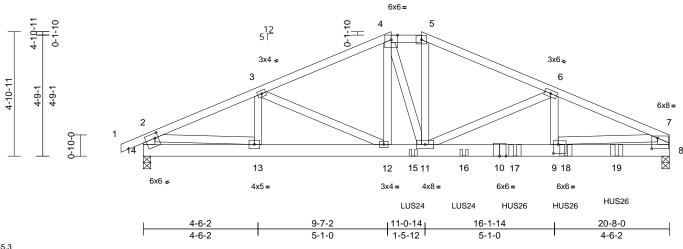
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 🕡 ID:G73B15izMPnFWtMrXnGA9gzUnvr-RfC?PsB70Hq3NSgPqnL8w3uITXbG

KWrCDo



4x5 =



Scale = 1:45.3

Plate Offsets (X, Y): [7:0-2-12,0-5-0], [9:0-2-4,0-4-4], [14:0-1-8,0-2-4]

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	0.32	Vert(LL)	-0.09	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.16	9-11	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.06	9-11	>999	240	Weight: 208 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 14-2,8-7:2x6 SPF WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-1-3 oc purlins, except end verticals, and

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

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

bracing

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

Max Horiz 14=66 (LC 8)

Max Uplift 8=-503 (LC 9), 14=-271 (LC 8)

Max Grav 8=3538 (LC 1), 14=1851 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/30, 2-3=-3185/443, 3-4=-3203/451,

4-5=-3234/501, 5-6=-3596/512, 6-7=-5804/827, 2-14=-1727/282,

7-8=-2865/434

BOT CHORD 13-14=-152/617. 12-13=-423/2883.

11-12=-347/2907. 9-11=-729/5301.

8-9=-204/1373

WEBS 3-13=-311/113, 3-12=-134/320,

4-12=-222/109, 4-11=-239/1295 5-11=-170/1137, 6-11=-2279/415,

6-9=-158/1565, 2-13=-273/2284,

7-9=-530/3959

NOTES

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

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 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
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SPF No.2
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 14 and 503 lb uplift at joint 8.
- 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) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-7-4 from the left end to 12-7-4 to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie HUS26 (14-10d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 14-7-4 from the left end to 18-7-4 to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-4=-70, 4-5=-70, 5-7=-70, 8-14=-20 Concentrated Loads (lb)

Vert: 15=-404 (B), 16=-404 (B), 17=-895 (B), 18=-895 (B), 19=-895 (B)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Ply Job Truss Truss Type Qty Lot 134 MN 240617 J1 Diagonal Hip Girder

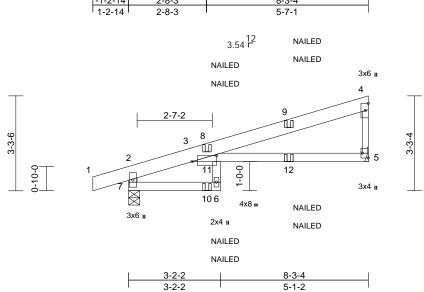
Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optiona Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc.

DEVELOPMENT SERVICES 164632879 LEE'S SUMMIT. MISSOURI ue Apr 📭 ID:2i5zHLmM9sAp50z?31h9VOyLCYy-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoi)

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

-1-2-14 8-3-4 2-8-3 1-2-14 2-8-3 5-7-1



Scale = 1:39.8

Plate Offsets (X, Y): [3:0-10-3,0-2-8], [5:Edge,0-2-8]

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	0.69	Vert(LL)	-0.14	6	>669	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.27	6	>352	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.11	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.15	6	>631	240	Weight: 31 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 *Except* 4-5:2x3 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 6-0-0 oc

bracing.

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

Max Horiz 7=114 (LC 5)

Max Uplift 5=-103 (LC 8), 7=-127 (LC 4)

Max Grav 5=413 (LC 1), 7=504 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

2-7=-479/149, 1-2=0/27, 2-3=-138/24,

TOP CHORD 3-4=-157/28, 4-5=-293/110

BOT CHORD 6-7=-49/0, 3-5=-31/95

WFBS 3-6=0/76

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
- 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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 7 and 103 lb uplift at joint 5.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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

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

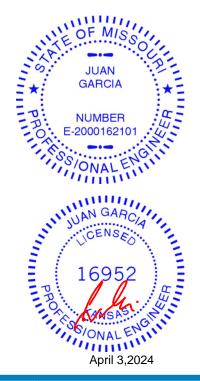
Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 9=-11 (F=-5, B=-5), 10=4 (F=2, B=2), 12=-73

(F=-36, B=-36)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Truss Type Ply Job Truss Qty Lot 134 MN Jack-Open 240617 J2 5 Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632880 LEE'S SUMMIT. MISSOURI

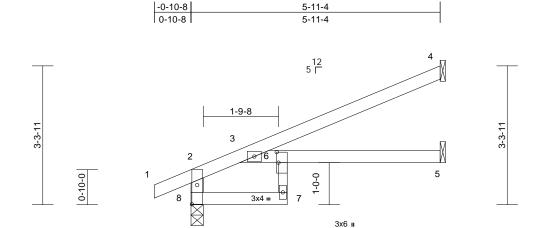
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:6KzCsfl6dEw5ripdycfhQzyLCZ_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

> 5-11-4 3-7-12

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RELEASE FOR CONSTRUCTION



Scale = 1:27.5

Plate Offsets (X, Y): [6:0-3-0,0-0-8], [8:0-5-8,0-1-8]

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	0.43	Vert(LL)	-0.06	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	5-6	>527	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.06	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.07	5-6	>932	240	Weight: 18 lb	FT = 10%

2x4 II

LUMBER

TOP CHORD 2x4 SPF No.2

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

2x4 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 8=104 (LC 8)

Max Uplift 4=-77 (LC 8), 8=-34 (LC 8) Max Grav 4=166 (LC 1), 5=114 (LC 3), 8=351

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-342/66, 1-2=0/27, 2-3=-200/0,

3-4=-63/51

BOT CHORD 7-8=-65/107, 6-7=-8/48, 3-6=-107/65, 5-6=0/0

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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 8 and 77 lb uplift at joint 4.

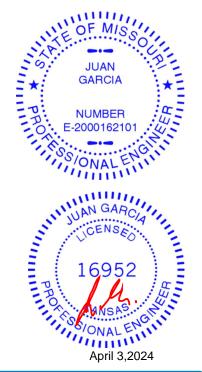
This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

3x10 u

2-3-8

2-3-8





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Truss Type Ply Job Truss Qty Lot 134 MN Jack-Open 240617 J3 2 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:6KzCsfl6dEw5ripdycfhQzyLCZ_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632881 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

ue Apr 🜈

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

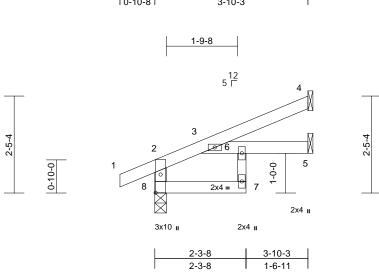


Plate Offsets (X, Y): [8:0-5-8,0-1-8]

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	0.14	Vert(LL)	-0.01	3-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	6	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	3-6	>999	240	Weight: 13 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

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

2x4 SPF No.2 WEBS

BRACING

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

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

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical,

8=0-3-8 Max Horiz 8=68 (LC 8)

Max Uplift 4=-44 (LC 8), 5=-2 (LC 8), 8=-26

(LC 8)

4=98 (LC 1), 5=82 (LC 3), 8=257 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-241/50, 1-2=0/27, 2-3=-108/0,

3-4=-34/31

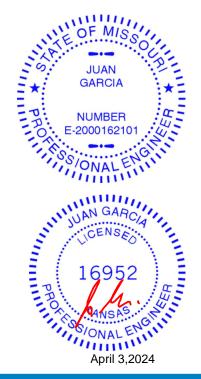
BOT CHORD 7-8=-29/47, 6-7=0/44, 3-6=-47/29, 5-6=0/0

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
- 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.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 8, 44 lb uplift at joint 4 and 2 lb uplift at joint 5.

This truss 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Truss Type Ply Job Truss Qty Lot 134 MN Jack-Open 240617 J4 6 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

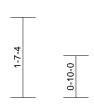
Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:6KzCsfl6dEw5ripdycfhQzyLCZ_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV

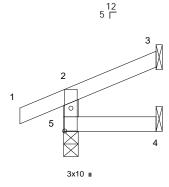
DEVELOPMENT SERVICES 164632882 LEE'S SUMMIT. MISSOURI ue Apr 🕫

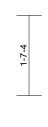
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

-0-10-8 1-10-3









1-10-3

Scale = 1:23

Plate Offsets (X, Y): [5:0-5-8,0-1-8]

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	0.07	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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: 6 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=41 (LC 5)

Max Uplift 3=-28 (LC 8), 5=-32 (LC 4) 3=41 (LC 1), 4=30 (LC 3), 5=169 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-148/46, 1-2=0/27, 2-3=-31/11

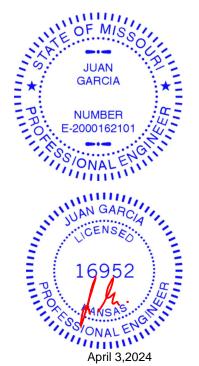
BOT CHORD 4-5=0/0

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
- 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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5 and 28 lb uplift at joint 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.

LOAD CASE(S) Standard





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



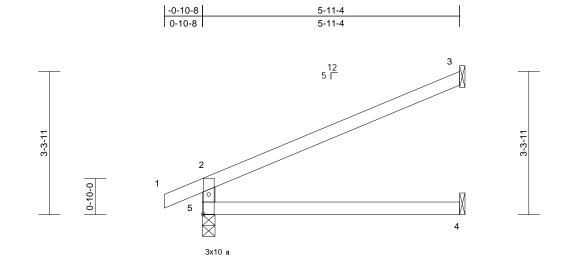
Truss Type Ply Job Truss Qty Lot 134 MN Jack-Open 240617 J5 12 Job Reference (optiona

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 164632883 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:aWXb3?lkOY2yTsOpVJAwyAyLCYz-RfC?PsB70Hq3NSgPqnL8w3uITXbC

ue Apr 🕫



Scale = 1:26.6

Plate Offsets (X, Y): [5:0-5-8,0-1-8]

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	0.52	Vert(LL)	-0.05	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.11	4-5	>613	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.04	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.05	4-5	>999	240	Weight: 16 lb	FT = 10%

5-11-4

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

Max Horiz 5=104 (LC 8)

Max Uplift 3=-92 (LC 8), 5=-43 (LC 8) 3=180 (LC 1), 4=108 (LC 3), 5=336 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-292/97, 1-2=0/27, 2-3=-95/54

BOT CHORD 4-5=0/0

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
- 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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 5 and 92 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



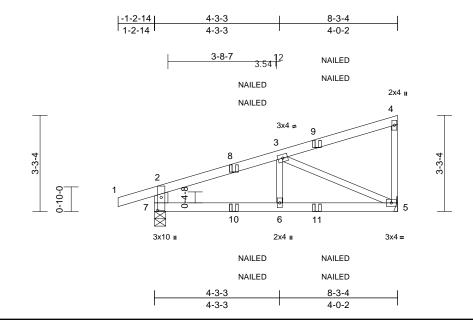
Ply Job Truss Truss Type Qty Lot 134 MN 240617 J6 Diagonal Hip Girder 2 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:?5Dji1ochTQXKK7OBSkeapyLCYw-RfC?PsB70Hq3NSgPqnL8w3uITXbG

DEVELOPMENT SERVICES 164632884 LEE'S SUMMIT. MISSOURI ue Apr 📭 (WrCDoi

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:39.2

Plate Offsets (X, Y): [7:0-5-6,0-1-8]

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	0.47	Vert(LL)	-0.02	5-6	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.05	5-6	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		Wind(LL)	0.02	5-6	>999	240	Weight: 28 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-2:2x6 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 5= Mechanical, 7=0-4-9 (size)

Max Horiz 7=135 (LC 5)

Max Uplift 5=-94 (LC 8), 7=-134 (LC 4)

Max Grav 5=382 (LC 1), 7=485 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

2-7=-417/147, 1-2=0/29, 2-3=-521/97,

TOP CHORD 3-4=-103/29 4-5=-135/57

BOT CHORD 6-7=-126/429, 5-6=-126/429 WFBS 3-6=0/169, 3-5=-455/137

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
- 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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 7 and 94 lb uplift at joint 5.

- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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

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

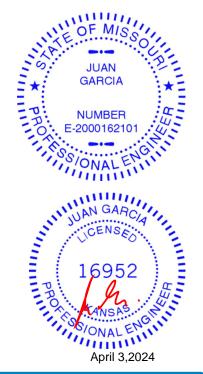
Plate Increase=1.15 Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 9=-26 (F=-13, B=-13), 10=4 (F=2, B=2), 11=-28

(F=-14, B=-14)





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Truss Type Ply Job Truss Qty Lot 134 MN Jack-Open 240617 J7 Job Reference (optiona

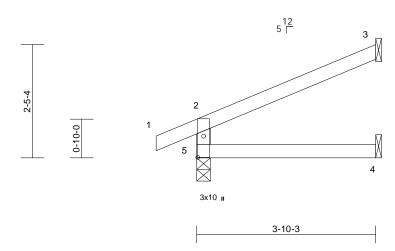
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 🕫 ID:aWXb3?lkOY2yTsOpVJAwyAyLCYz-RfC?PsB70Hq3NSgPqnL8w3uITXbC

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632885 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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



Scale = 1:24.8

Plate Offsets (X, Y): [5:0-5-8,0-1-8]

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	0.19	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/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8 Max Horiz 5=68 (LC 8)

Max Uplift 3=-60 (LC 8), 5=-33 (LC 8) 3=112 (LC 1), 4=68 (LC 3), 5=245 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-215/69, 1-2=0/27, 2-3=-61/33

BOT CHORD 4-5=0/0

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
- 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.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 33 lb uplift at joint 5 and 60 lb uplift at joint 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.

LOAD CASE(S) Standard





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



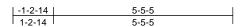
Ply Job Truss Truss Type Qty Lot 134 MN 240617 J9 Diagonal Hip Girder 2 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

DEVELOPMENT SERVICES 164632886 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 12 ID:ycw70B_G2TmYsuxMfFCesWzUny4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJ6?



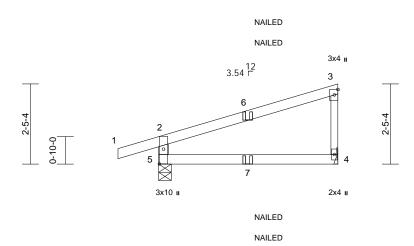


Plate Offsets (X, Y): [5:0-5-6,0-1-8]

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	0.38	Vert(LL)	-0.03	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.06	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 16 lb	FT = 10%

5-5-5

LUMBER

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

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

BRACING

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

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

bracing.

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

Max Horiz 5=98 (LC 5)

Max Uplift 4=-48 (LC 8), 5=-102 (LC 4) Max Grav 4=219 (LC 1), 5=342 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-302/140, 1-2=0/27, 2-3=-126/14,

3-4=-158/71 4-5=-26/49

BOT CHORD NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 5 and 48 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.

- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 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

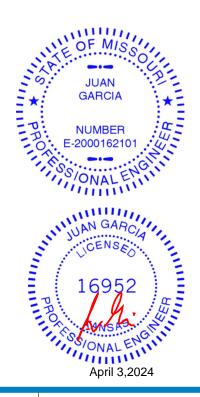
Dead + Roof Live (balanced): Lumber Increase=1.15,

Plate Increase=1.15 Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 7=4 (F=2, B=2)



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Truss Type Ply Job Truss Qty Lot 134 MN Jack-Open 240617 J10 Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:r6eDHlq76T7OovRsO1TbqmzUnyH-RfC?PsB70Hq3NSgPqnL8w3uITXbG

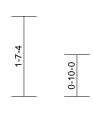
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632887 LEE'S SUMMIT. MISSOURI ue Apr 🕫

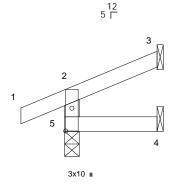
KWrCDon

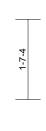
RELEASE FOR CONSTRUCTION

-0-10-8 1-10-3









1-10-3

Scale = 1:23

Plate Offsets (X, Y): [5:0-5-8,0-1-8]

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)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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: 6 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

Max Horiz 5=41 (LC 5)

Max Uplift 3=-28 (LC 8), 5=-32 (LC 4) 3=41 (LC 1), 4=30 (LC 3), 5=169 Max Grav

(LC 1) **FORCES**

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-148/46, 1-2=0/27, 2-3=-31/11

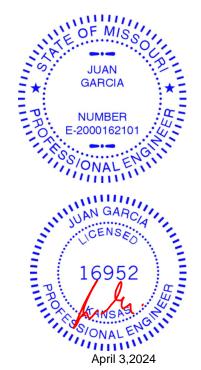
BOT CHORD 4-5=0/0

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
- 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.
- All bearings are assumed to be SPF No.2.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 5 and 28 lb uplift at joint 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.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Truss Type Ply Job Truss Qty Lot 134 MN Jack-Open 240617 J11 8 Job Reference (optiona

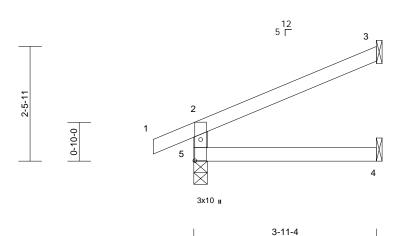
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:ujWSs3osastgZbHTGcQ7lLzUnyJ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK

DEVELOPMENT SERVICES 164632888 LEE'S SUMMIT. MISSOURI ue Apr 🕫

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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



Scale = 1:24.9

Plate Offsets (X, Y): [5:0-5-8,0-1-8]

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)	-0.01	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/TPI2014	Matrix-R		Wind(LL)	0.01	4-5	>999	240	Weight: 11 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-11-4 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=70 (LC 8) Max Uplift 3=-61 (LC 8), 5=-34 (LC 8) 3=115 (LC 1), 4=70 (LC 3), 5=249 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-218/70, 1-2=0/27, 2-3=-63/34

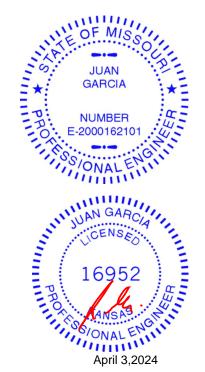
BOT CHORD 4-5=0/0

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
- 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.
- All bearings are assumed to be SPF No.2
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 5 and 61 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



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 134 MN 240617 LAY1 Lay-In Gable

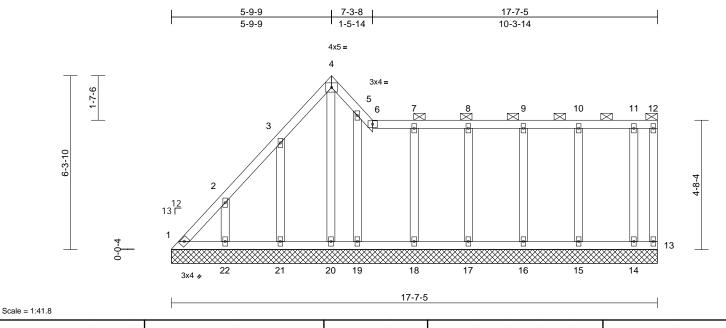
Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632889 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. Wid Apr 0311:44 09 ID:aWXb3?lkOY2yTsOpVJAwyAyLCYz-oDblaZHlw_l6Zo2vlgc3p3tZ0Vi_gNx



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	0.08	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	0.10	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 90 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 2x4 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, and 2-0-0 oc purlins (6-0-0 max.): 6-12.

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

bracing, Except:

6-0-0 oc bracing: 1-22,21-22,20-21.

REACTIONS (lb/size)

1=55/17-7-5, 13=7/17-7-5, 14=140/17-7-5, 15=188/17-7-5, 16=179/17-7-5, 17=175/17-7-5, 18=189/17-7-5, 19=144/17-7-5, 20=101/17-7-5, 21=185/17-7-5, 22=181/17-7-5

Max Horiz 1=216 (LC 7)

Max Uplift 1=-95 (LC 6), 13=-22 (LC 7), 14=-17 (LC 4), 15=-39 (LC 5), 16=-33 (LC 9), 17=-38 (LC 5),

> 18=-31 (LC 9), 19=-60 (LC 4), 20=-132 (LC 7), 21=-127 (LC 8),

22=-132 (LC 8)

Max Grav 1=177 (LC 5), 13=16 (LC 4), 14=141 (LC 22), 15=188 (LC 1), 16=179 (LC 22), 17=175 (LC 1),

18=189 (LC 22), 19=171 (LC 16), 20=185 (LC 4), 21=214 (LC 15),

22=205 (LC 15) **FORCES** (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-243/189, 2-3=-190/148, 3-4=-150/126, 4-5=-120/108, 5-6=-60/51, 6-7=-60/46, 7-8=-60/46, 8-9=-60/46, 9-10=-60/46, 10-11=-60/46, 11-12=-60/46, 12-13=-29/25

BOT CHORD 1-22=-64/49, 21-22=-64/49, 20-21=-64/49,

WEBS

19-20=-65/49, 18-19=-65/49, 17-18=-65/49, 16-17=-65/49, 15-16=-65/49, 14-15=-65/49, 13-14=-65/49 2-22=-160/151, 3-21=-175/153, 4-20=-171/156, 5-19=-141/78, 11-14=-107/61, 10-15=-147/61

9-16=-139/57, 8-17=-136/61, 7-18=-147/56 NOTES

1) 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- 10) All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 1, 22 lb uplift at joint 13, 132 lb uplift at joint 22, 127 lb uplift at joint 21, 132 lb uplift at joint 20, 60 lb uplift at joint 19, 17 lb uplift at joint 14, 39 lb uplift at joint 15, 33 lb uplift at joint 16, 38 lb uplift at joint 17 and 31 lb uplift at joint 18.

- 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.
- 13) 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





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

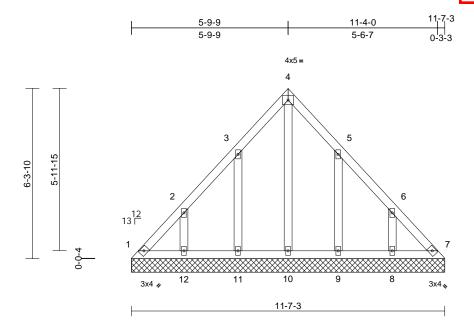


Job Truss Truss Type Qty Ply Lot 134 MN 240617 LAY2 Lay-In Gable Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 E Jan 4 2024 Print: 8.730 E Jan 4 2024 MiTek Industries, Inc. Wed Apr 03 1 ID:aWXb3?lkOY2yTsOpVJAwyAyLCYz-5ZWx2yM8H7A7vt4FCeEibYgmfJ5n XCvJ92

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632890 LEE'S SUMMIT. MISSOURI



Scale = 1:42.6

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	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(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 50 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (lb/size) 1=77/11-7-3, 7=77/11-7-3,

8=182/11-7-3, 9=180/11-7-3, 10=109/11-7-3, 11=180/11-7-3,

12=182/11-7-3

Max Horiz 1=-159 (LC 6) Max Uplift

1=-54 (LC 6), 7=-28 (LC 7), 8=-132 (LC 9), 9=-128 (LC 9), 11=-129 (LC

8), 12=-132 (LC 8)

Max Grav 1=135 (LC 17), 7=122 (LC 18),

8=208 (LC 16), 9=207 (LC 16), 10=147 (LC 18), 11=208 (LC 15),

12=207 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-196/133, 2-3=-126/86, 3-4=-97/119,

4-5=-83/98, 5-6=-99/50, 6-7=-173/98 **BOT CHORD** 1-12=-68/143, 11-12=-68/143, 10-11=-68/143,

9-10=-68/143, 8-9=-68/143, 7-8=-68/143

WEBS 2-12=-162/151, 3-11=-170/153,

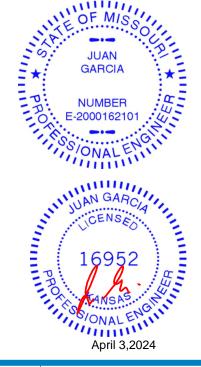
6-8=-162/151, 5-9=-169/152, 4-10=-112/10

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.
- Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 7) 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 1, 28 lb uplift at joint 7, 132 lb uplift at joint 12, 129 lb uplift at joint 11, 132 lb uplift at joint 8 and 128 lb uplift at joint 9.
- 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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

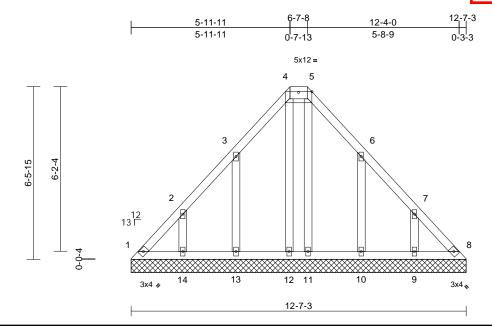


Job Truss Truss Type Qty Ply Lot 134 MN 240617 LAY4 Lay-In Gable Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries. Inc. ID:6HLSDeGCUrthq443KRfL5ZzUo_I-RfC?PsB70Hq3NSgPqnL8w3uITXbGh RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632891 LEE'S SUMMIT. MISSOURI

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Scale = 1:43.3

Plate Offsets	(X,	Y):	[4:0-6	3-0,0-0-5
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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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 60 lb	FT = 10%

LUMBER

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

2x4 SPF No.2 OTHERS

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except

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

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

bracing.

REACTIONS (size) 1=12-7-3, 8=12-7-3, 9=12-7-3,

10=12-7-3, 11=12-7-3, 12=12-7-3, 13=12-7-3, 14=12-7-3

Max Horiz 1=-164 (LC 4)

Max Uplift 1=-63 (LC 6), 8=-29 (LC 7), 9=-130

(LC 9), 10=-135 (LC 9), 12=-18 (LC 5), 13=-136 (LC 8), 14=-130 (LC 8)

1=132 (LC 17), 8=115 (LC 18), Max Grav

9=204 (LC 16), 10=218 (LC 16),

11=111 (LC 17), 12=127 (LC 18), 13=219 (LC 15), 14=204 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-188/145, 2-3=-129/99, 3-4=-104/144,

4-5=-31/117, 5-6=-85/119, 6-7=-94/54,

7-8=-158/99

1-14=-68/133, 13-14=-68/133, BOT CHORD

12-13=-68/133, 11-12=-68/133, 10-11=-68/133, 9-10=-68/133, 8-9=-68/133

WEBS 2-14=-159/148, 3-13=-178/162,

4-12=-102/41, 7-9=-160/148, 6-10=-177/162

5-11=-85/8

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. Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated. 5)
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 8) 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) All bearings are assumed to be SPF No.2.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 1, 29 lb uplift at joint 8, 130 lb uplift at joint 14, 136 lb uplift at joint 13, 18 lb uplift at joint 12, 130 lb uplift at joint 9 and 135 lb uplift at joint 10.
- 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.
- 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





MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Ply Truss Type Job Truss Qty Lot 134 MN 240617 V1 Valley Job Reference (optiona

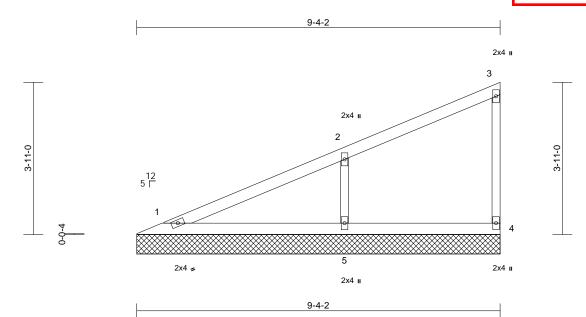
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632892 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:aWXb3?lkOY2yTsOpVJAwyAyLCYz-RfC?PsB70Hq3NSgPqnL8w3uITXbC

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RELEASE FOR CONSTRUCTION



Scale	=	1.29	6

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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 25 lb	FT = 10%

LUMBER

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

(size) REACTIONS 1=9-4-2, 4=9-4-2, 5=9-4-2

Max Horiz 1=156 (LC 5)

Max Uplift 4=-23 (LC 5), 5=-127 (LC 8) 1=166 (LC 1), 4=125 (LC 1), 5=477 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-121/69, 2-3=-105/28, 3-4=-98/40

BOT CHORD 1-5=-50/38. 4-5=-50/38

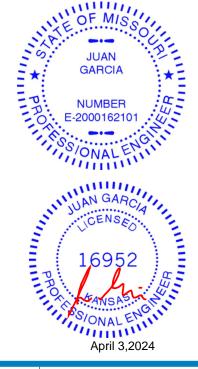
2-5=-363/179 WFBS

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
- 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.
- All bearings are assumed to be SPF No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 4 and 127 lb uplift at joint 5.
- This truss 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



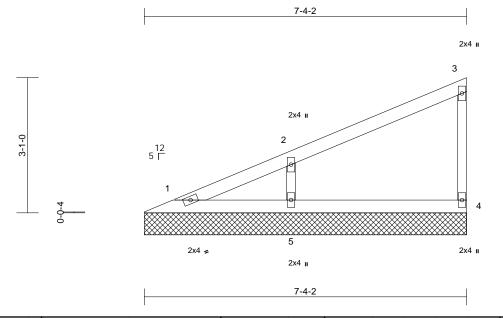
Truss Type Job Truss Qty Ply Lot 134 MN 240617 V2 Valley

Wheeler Lumber, Waverly, KS - 66871,

Job Reference (optiona Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. 7 S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632893 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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Scale = 1:26.3

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	0.19	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	0.05	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 10%

LUMBER

2x4 SPF No.2 TOP CHORD **BOT CHORD** 2x4 SPF No.2 2x3 SPF No.2 WEBS 2x3 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) 1=7-4-2, 4=7-4-2, 5=7-4-2

Max Horiz 1=119 (LC 5) Max Uplift 4=-26 (LC 8), 5=-101 (LC 8)

1=74 (LC 16), 4=141 (LC 1), 5=379 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-98/51, 2-3=-91/32, 3-4=-110/45

BOT CHORD 1-5=-39/29. 4-5=-39/29 2-5=-294/151 WFBS

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
- 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.
- All bearings are assumed to be SPF No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 4 and 101 lb uplift at joint 5.
- This truss 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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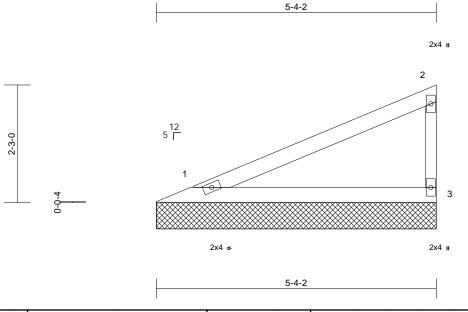
Ply Truss Type Job Truss Qty Lot 134 MN 240617 V3 Valley Job Reference (optiona

DEVELOPMENT SERVICES 164632894 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 🔑 ID:aWXb3?lkOY2yTsOpVJAwyAyLCYz-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoFJ4zJC

Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:22

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	0.39	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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 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 5-4-12 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=5-4-2, 3=5-4-2

Max Horiz 1=83 (LC 5)

Max Uplift 1=-30 (LC 8), 3=-46 (LC 8) Max Grav 1=204 (LC 1), 3=204 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-74/49, 2-3=-159/74

BOT CHORD 1-3=-27/20

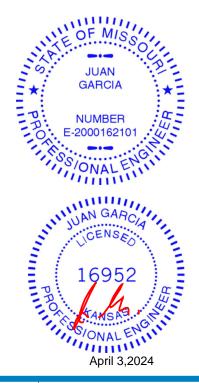
NOTES

FORCES

- 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 4-0-0 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.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 1 and 46 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



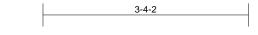
Ply Job Truss Truss Type Qty Lot 134 MN 240617 V4 Valley Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632895 LEE'S SUMMIT. MISSOURI

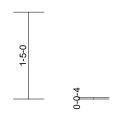
RELEASE FOR CONSTRUCTION

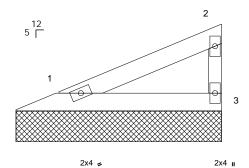
Wheeler Lumber, Waverly, KS - 66871,

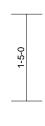
Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. Tue Apr 12 ID:aWXb3?lkOY2yTsOpVJAwyAyLCYz-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoFJ4zJC



2x4 II







3-4-2

Scale = 1:18.8

Loading	(psf)	Spacing	2-0-0	csı		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	0.06	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 3-4-12 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-4-2, 3=3-4-2

Max Horiz 1=47 (LC 5)

Max Uplift 1=-17 (LC 8), 3=-26 (LC 8) Max Grav 1=114 (LC 1), 3=114 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-42/28, 2-3=-89/41

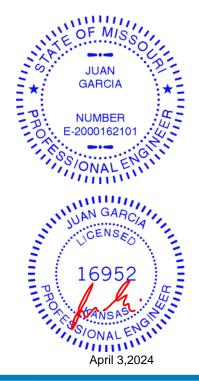
BOT CHORD 1-3=-15/12

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 4-0-0 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.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 17 lb uplift at joint 1 and 26 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



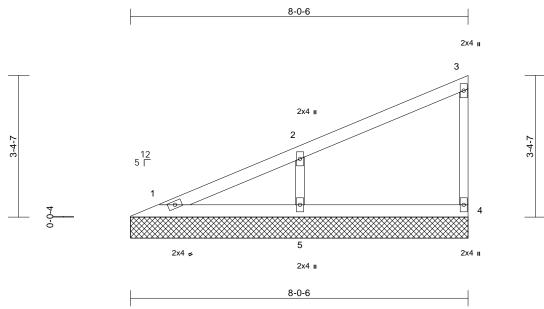
Truss Type Job Truss Qty Ply Lot 134 MN 240617 V5 Valley Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632896 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ue Apr 🌈 ID:vhP9BVai?j5rv2qLG??C78zUnqr-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\ rCDoi7J4



Scale = 1:27.4

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 10%

LUMBER

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

(size) REACTIONS 1=8-0-6, 4=8-0-6, 5=8-0-6

Max Horiz 1=132 (LC 5)

Max Uplift 4=-24 (LC 8), 5=-108 (LC 8) 1=105 (LC 1), 4=137 (LC 1), 5=408 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-105/59, 2-3=-95/31, 3-4=-107/42

BOT CHORD 1-5=-43/33 4-5=-43/33

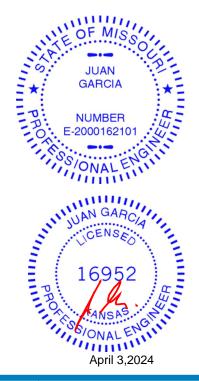
2-5=-317/163 WFBS

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
- 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.
- All bearings are assumed to be SPF No.2.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 4 and 108 lb uplift at joint 5.
- This truss 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



Ply Truss Type Job Truss Qty Lot 134 MN 240617 V6 Valley

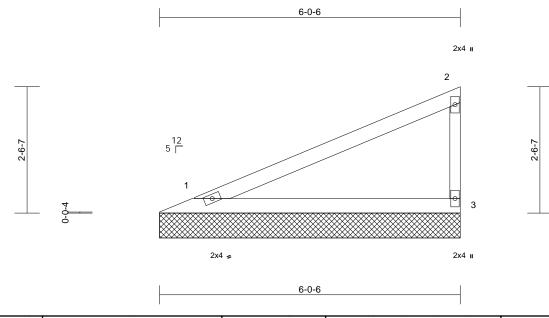
DEVELOPMENT SERVICES 164632897 LEE'S SUMMIT. MISSOURI Job Reference (optiona

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc. ID:vhP9BVai?j5rv2qLG??C78zUnqr-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\

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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	0.53	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.29	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: 15 lb	FT = 10%

LUMBER

Scale = 1:23.1

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 6-1-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=6-0-6, 3=6-0-6

Max Horiz 1=96 (LC 5)

Max Uplift 1=-34 (LC 8), 3=-53 (LC 8) Max Grav 1=235 (LC 1), 3=235 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-85/56, 2-3=-183/85

BOT CHORD 1-3=-31/24

NOTES

FORCES

- 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 4-0-0 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.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 34 lb uplift at joint 1 and 53 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





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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



Ply Qty Job Truss Truss Type Lot 134 MN 240617 V7 Valley Job Reference (optiona

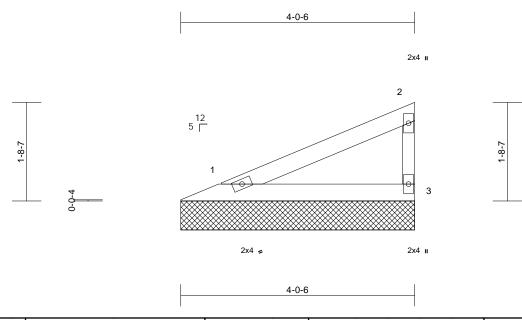
Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Mar 21 2024 Print: 8.730 S Mar 21 2024 MiTek Industries, Inc.

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164632898 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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Scale = 1:19.9

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	0.19	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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 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 4-1-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=4-0-6, 3=4-0-6

Max Horiz 1=59 (LC 5)

Max Uplift 1=-21 (LC 8), 3=-33 (LC 8) Max Grav 1=145 (LC 1), 3=145 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-53/35, 2-3=-113/52

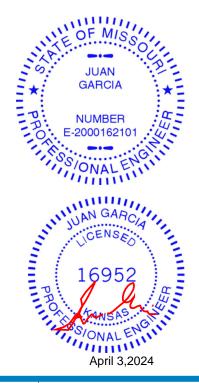
BOT CHORD 1-3=-19/15

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 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.
- All bearings are assumed to be SPF No.2 .
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 33 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





WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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



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

Apply plates to both sides of truss Dimensions are in ft-in-sixteenths

edge of truss. plates 0- 1/16" from outside

For 4 x 2 orientation, locate

₹

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

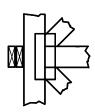
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



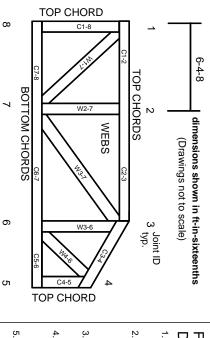
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-22: ANSI/TPI1:

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-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

Design General Notes

truss unless otherwise shown Trusses are designed for wind loads in the plane of the

established by others section 6.3 These truss designs rely on lumber values Lumber design values are in accordance with ANSI/TPI 1

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MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- 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.