

08/01/2024

MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

MiTek

RE: B240137 - Lot 8 CB

Site Information:

Project Customer: Summit Homes Project Name:

Lot/Block: 8 Subdivision: Cobey Creek

Model: Palmetto - Farmhouse 1 Address: 3449 SE Corbin Dr

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

Design Code: IRC2012/TPI2007

Design Program: MiTek 20/20 8.7 Wind Code: ASCE 7-10 [DowndRSquedeth: 115 mph

Design Method: MWFRS (Envelope) ASCE 7-10 [Low Rise]

Roof Load: 45.0 psf Floor Load: N/A psf

Mean Roof Height (feet): 25 Exposure Category: C

No. 12345678910112314	Seal# 166588884 166588885 166588886 166588889 166588890 166588891 166588893 166588894 166588896 166588896	Truss Name A1 A2 A3 A4 B1 B2 B3 B4 B5 B6 B7 B8 B9 B10	Date 7/2/24 7/2/24 7/2/24 7/2/24 7/2/24 7/2/24 7/2/24 7/2/24 7/2/24 7/2/24 7/2/24 7/2/24 7/2/24 7/2/24
10 11 12 13	166588893 166588894 166588895	B6 B7 B8	7/2/24 7/2/24 7/2/24 7/2/24
18 19 20 21 22 23	166588901 166588902 166588903 166588904 166588905 166588906	J2 LAY1 V1 V2 V3 V4	7/2/24 7/2/24 7/2/24 7/2/24 7/2/24 7/2/24

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Sevier, Scott

My license renewal date for the state of Missouri is December 31, 2025.

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 or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO 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.



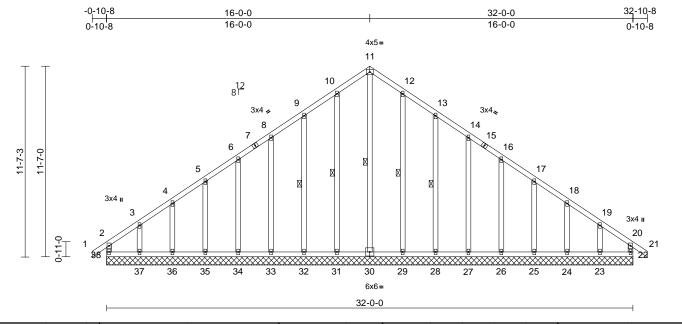
Job Truss Truss Type Qty Ply Lot 8 CB B240137 A1 Common Supported Gable Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588884 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 ID:AVXTMfOv7HTdJem99pvFdZzvy1L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDo



Sca	le =	1	:7	(

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	22	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 188 lb	FT = 10%

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

2x4 SPF No.2 WEBS 2x4 SPF No.2 OTHERS

BRACING

FORCES

LUMBER

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

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

WEBS 1 Row at midpt

11-30, 10-31, 9-32, 12-29 13-28 22=32-0-0, 23=32-0-0, 24=32-0-0,

REACTIONS (size)

25=32-0-0, 26=32-0-0, 27=32-0-0, 28=32-0-0, 29=32-0-0, 30=32-0-0, 31=32-0-0, 32=32-0-0, 33=32-0-0, 34=32-0-0, 35=32-0-0, 36=32-0-0, 37=32-0-0, 38=32-0-0

Max Horiz 38=320 (LC 7)

Max Uplift 22=-79 (LC 5), 23=-156 (LC 9), 24=-50 (LC 9), 25=-75 (LC 9),

26=-69 (LC 9), 27=-69 (LC 9). 28=-77 (LC 9), 29=-56 (LC 9), 31=-58 (LC 8), 32=-76 (LC 8), 33=-69 (LC 8), 34=-69 (LC 8), 35=-76 (LC 8), 36=-46 (LC 8),

37=-173 (LC 8), 38=-140 (LC 4) Max Grav 22=208 (LC 15), 23=226 (LC 16), 24=184 (LC 1), 25=189 (LC 16), 26=186 (LC 16), 27=187 (LC 16), 28=187 (LC 16), 29=193 (LC 16), 30=311 (LC 9), 31=196 (LC 15), 32=185 (LC 15), 33=187 (LC 15), 34=186 (LC 15), 35=191 (LC 15),

36=184 (LC 1), 37=250 (LC 15), 38=255 (LC 16)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 2-38=-210/118, 1-2=0/40, 2-3=-244/223,

3-4=-180/171, 4-5=-168/167, 5-6=-148/178, 6-8=-130/215, 8-9=-112/251, 9-10=-96/292, 10-11=-83/320, 11-12=-70/308, 12-13=-49/255, 13-14=-60/215, 14-16=-74/179, 16-17=-87/141

17-18=-102/104, 18-19=-114/106, 19-20=-178/148, 20-21=0/40, 20-22=-172/69

BOT CHORD 37-38=-135/164, 36-37=-135/164, 35-36=-135/164, 34-35=-135/164,

33-34=-135/164, 32-33=-135/164, 31-32=-135/164, 29-31=-135/164, 28-29=-135/164, 27-28=-135/164, 26-27=-135/164, 25-26=-135/164, 24-25=-135/164, 23-24=-135/164,

22-23=-135/164 WEBS

11-30=-287/16, 10-31=-156/82, 9-32=-145/100, 8-33=-147/93, 6-34=-146/93,

5-35=-148/97, 4-36=-144/82, 3-37=-176/149, 12-29=-153/80, 13-28=-147/101,

14-27=-147/93, 16-26=-147/94 17-25=-148/96, 18-24=-144/84,

19-23=-162/139

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. 5)
- 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 140 lb uplift at joint 38, 79 lb uplift at joint 22, 58 lb uplift at joint 31, 76 lb uplift at joint 32, 69 lb uplift at joint 33, 69 lb uplift at joint 34, 76 lb uplift at joint 35, 46 lb uplift at joint 36, 173 lb uplift at joint 37, 56 lb uplift at joint 29, 77 lb uplift at joint 28, 69 lb uplift at joint 27, 69 lb uplift at joint 26, 75 lb uplift at joint 25, 50 lb uplift at joint 24 and 156 lb uplift at joint 23.

LOAD CASE(S) Standard



July 2,2024



Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not besign value to use only with recks colline tools. This design is based only upon parameters shown, and is not an individual busining denipolinit, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job Truss Truss Type Qty Ply Lot 8 CB B240137 A2 Common 6 Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588885 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 0 22 ID:AVXTMfOv7HTdJem99pvFdZzvy1L-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDo

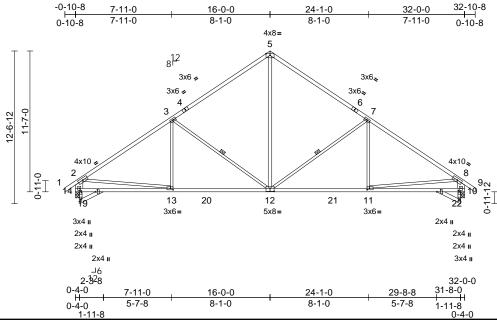


Plate Offsets (X, Y): [10:0-1-8,0-1-0], [11:0-2-8,0-1-8], [12:0-4-0,0-3-0], [13:0-2-8,0-1-8], [14:0-1-8,0-1-0], [16:0-2-0,0-1-15], [17:0-2-0,0-3-15]

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	0.90	Vert(LL)	-0.14	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.26	12-13	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.05	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.05	12-13	>999	240	Weight: 143 lb	FT = 10%

LUMBER

Scale = 1:94.8

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

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

14-2,10-8:2x8 SP 2400F 2.0E

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

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

bracing

WEBS 7-12, 3-12 1 Row at midpt REACTIONS 10=0-3-8, 14=0-3-8 (size)

Max Horiz 14=-324 (LC 6)

Max Uplift 10=-187 (LC 9), 14=-187 (LC 8)

Max Grav 10=1623 (LC 16), 14=1623 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/46, 2-3=-2043/227, 3-5=-1481/277,

5-7=-1481/277, 7-8=-2044/227, 8-9=0/46.

2-14=-1507/228, 8-10=-1506/228 13-14=-327/717, 11-13=-226/1798

BOT CHORD 10-11=-163/485

WEBS 5-12=-108/1022, 7-12=-733/281, 7-11=0/294,

3-12=-733/282, 3-13=0/294, 2-13=0/1199,

8-11=0/1210

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 14 and 187 lb uplift at joint 10.

LOAD CASE(S) Standard







Job Truss Type Qty Ply Lot 8 CB		
B240137 A3 Roof Special 3 1 Job Reference (opt	ional'	L

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588886 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 08 224 DID:AVXTMfOv7HTdJem99pvFdZzvy1L-RfC?PsB70Hq3NSgPqnL8w3ulTXbG XWrCDow442cff

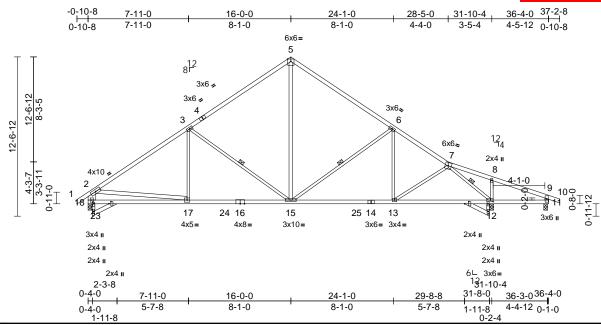


Plate Offsets (X, Y): [12:0-2-8,0-1-8], [18:0-1-8,0-1-0], [20:0-2-0,0-1-15], [21:0-2-0,0-3-15]

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	0.98	Vert(LL)	-0.15	13-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.26	13-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.06	12	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.06	13-15	>999	240	Weight: 155 lb	FT = 10%

LUMBER

Scale = 1:90.9

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

2x3 SPF No.2 *Except* 15-5,17-2,11-9:2x4 WEBS SPF No.2, 18-2:2x8 SP 2400F 2.0E

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 11-12.

WEBS 1 Row at midpt 3-15, 6-15, 7-12

REACTIONS (size) 11=0-3-8, 12=0-3-8, 18=0-3-8 Max Horiz 18=-331 (LC 6)

Max Uplift 11=-126 (LC 5), 12=-196 (LC 9),

18=-188 (LC 8)

Max Grav 11=147 (LC 22), 12=1903 (LC 2),

18=1605 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/46, 2-3=-2015/228, 3-5=-1434/280,

5-6=-1449/277, 6-7=-1805/243, 7-8=0/349, 8-9=-6/361, 9-10=0/23, 2-18=-1490/229,

9-11=-138/141

BOT CHORD 17-18=-335/700, 15-17=-233/1780,

13-15=-58/1535, 12-13=-110/1280,

11-12=-277/27

WFBS 3-17=0/295, 3-15=-736/281, 5-15=-107/986,

6-15=-629/277, 6-13=0/244, 8-12=-368/158, 2-17=0/1192, 7-13=0/316, 7-12=-2058/171

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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 188 lb uplift at joint 18, 196 lb uplift at joint 12 and 126 lb uplift at joint 11.

LOAD CASE(S) Standard



July 2,2024



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

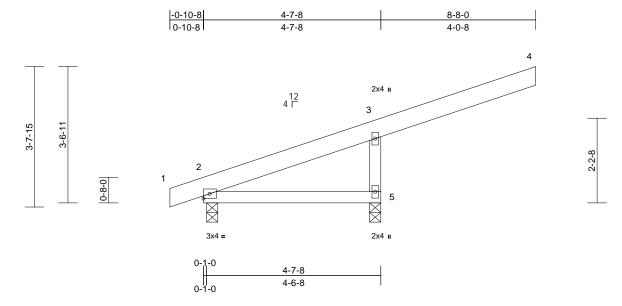
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Truss Type Job Truss Qty Ply Lot 8 CB B240137 **A4** Monopitch Structural Gable Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588887 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,



Scale = 1:30

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	0.57	Vert(LL)	-0.02	2-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.04	2-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 25 lb	FT = 10%

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 2=137 (LC 5)

Max Uplift 2=-4 (LC 4), 5=-239 (LC 5) Max Grav 2=133 (LC 1), 5=621 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/1, 2-3=-139/108, 3-4=-93/0,

3-5=-578/265 BOT CHORD 2-5=-25/19

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 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 239 lb uplift at joint 5 and 4 lb uplift at joint 2.



July 2,2024



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



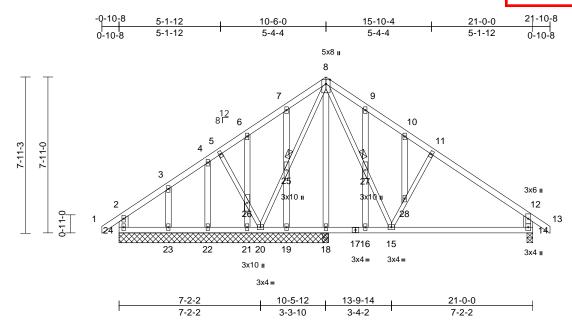
Job Truss Truss Type Qty Ply Lot 8 CB B240137 В1 Common Structural Gable Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588888 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 0 22 ID:fh5rZ_PXubbUwnLLjXQU9mzvy1K-RfC?PsB70Hq3NSgPqnL8w3uITXbGl<mark>,</mark>WrCDoi



Scale	= 1	1:58	5.5
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.06	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.11	14-15	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.01	16	>999	240	Weight: 115 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 24-2,14-12:2x6 SPF WEBS

No.2

OTHERS 2x4 SPF No.2

BRACING

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

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

bracing, Except:

10-0-0 oc bracing: 14-15. JOINTS 1 Brace at Jt(s): 25,

27

REACTIONS (size)

14=0-3-8, 18=10-7-8, 19=10-7-8, 20=10-7-8, 21=10-7-8, 22=10-7-8,

23=10-7-8, 24=10-7-8 Max Horiz 24=-224 (LC 6)

Max Uplift 14=-128 (LC 9), 19=-55 (LC 8),

20=-39 (LC 9), 21=-36 (LC 8), 22=-13 (LC 4), 23=-122 (LC 8).

24=-35 (LC 4)

Max Grav 14=499 (LC 22), 18=609 (LC 1),

19=172 (LC 21), 20=210 (LC 1), 21=143 (LC 21), 22=127 (LC 21),

23=264 (LC 15), 24=170 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/43, 2-3=-69/131, 3-4=-36/101,

TOP CHORD 4-5=-35/115, 5-6=-27/155, 6-7=-20/184,

7-8=-4/189, 8-9=-245/249, 9-10=-230/202

10-11=-258/172, 11-12=-409/151, 12-13=0/43, 2-24=-150/46, 12-14=-434/170

BOT CHORD 23-24=-155/149, 22-23=-155/149,

> 21-22=-155/149, 20-21=-155/149, 19-20=-103/114, 18-19=-103/114,

16-18=-109/113, 15-16=-109/113,

14-15=-31/254

WEBS

8-27=-147/486, 15-27=-151/518,

20-25=-136/56, 8-25=-142/58, 15-28=-284/195, 11-28=-246/168,

5-26=-119/83, 20-26=-133/92, 8-18=-451/0,

7-25=-159/94, 19-25=-161/90, 6-26=-119/67,

21-26=-113/56, 4-22=-87/31, 3-23=-198/133,

9-27=-135/62, 16-27=-169/67, 10-28=-45/30

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 study 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 128 lb uplift at joint 14. 39 lb uplift at joint 20. 35 lb uplift at joint 24. 55 lb uplift at joint 19, 36 lb uplift at joint 21, 13 lb uplift at joint 22 and 122 lb uplift at joint 23.

LOAD CASE(S) Standard



July 2,2024



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



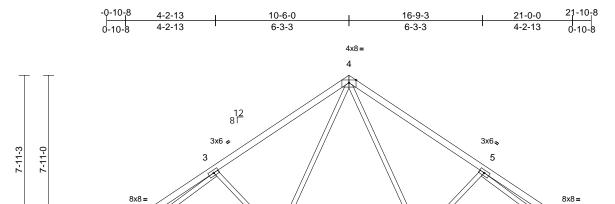
Ply Job Truss Truss Type Qty Lot 8 CB B240137 B2 6 Common

Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588889 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 0 22 ID:fh5rZ_PXubbUwnLLjXQU9mzvy1K-RfC?PsB70Hq3NSgPqnL8w3uITXbGHWrCDo



13 10 9 3x4= 3x4= 3x4= 7-2-2 13-9-14 21-0-0 7-2-2 6-7-12 7-2-2

Plate Offsets (X, Y): [2:Edge,0-2-0], [6:Edge,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	0.51	Vert(LL)	-0.08	9-11	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.14	8-9	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.03	9-11	>999	240	Weight: 84 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 4-6-8 oc purlins, except end verticals.

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=-223 (LC 6)

Max Uplift 8=-128 (LC 9), 12=-128 (LC 8) Max Grav 8=1084 (LC 16), 12=1084 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/38, 2-3=-303/48, 3-4=-1168/194,

4-5=-1168/194, 5-6=-303/48, 6-7=0/38,

2-12=-309/77, 6-8=-309/77

BOT CHORD 11-12=-194/1146, 9-11=-3/775, 8-9=-83/989 WEBS

4-9=-91/503, 5-9=-263/230, 4-11=-90/504, 3-11=-263/230, 3-12=-1037/138,

5-8=-1037/139

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 128 lb uplift at joint 12 and 128 lb uplift at joint 8.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER PE-2001018807

July 2,2024



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

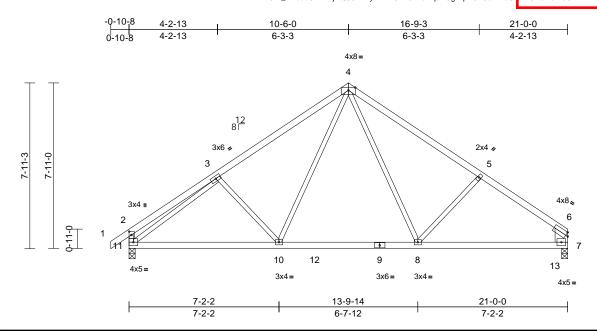


Ply Job Truss Truss Type Qty Lot 8 CB B240137 В3 Common Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588890 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 1 2024 ID:fh5rZ_PXubbUwnLLjXQU9mzvy1K-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi



Scale = 1:55.2

Plate Offsets	(X,	Y):	[2:0-2-0,0-1-4]
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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	0.74	Vert(LL)	-0.17	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.27	8-10	>913	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.09	8-10	>999	240	Weight: 81 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-6:2x8 SP 2400F WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD 3-7-2 oc purlins, except end verticals.

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

bracing

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

Max Horiz 11=219 (LC 5)

Max Uplift 7=-103 (LC 9), 11=-127 (LC 8) Max Grav 7=1005 (LC 16), 11=1076 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/38, 2-3=-296/48, 3-4=-1160/193,

4-5=-1094/185, 5-6=-1251/176, 2-11=-307/77 6-7=-851/133

BOT CHORD 10-11=-205/1129, 8-10=-14/753,

7-8=-103/920

4-8=-78/411, 5-8=-251/225, 4-10=-92/526,

3-10=-260/229, 3-11=-1035/138

WEBS 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, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 7 and 127 lb uplift at joint 11.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807

July 2,2024



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

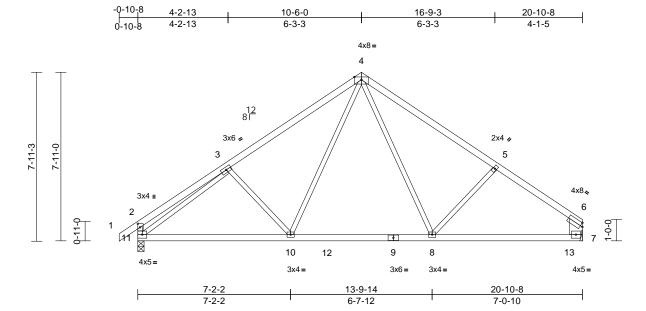


Ply Job Truss Truss Type Qty Lot 8 CB B240137 B4 3 Common Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588891 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 0 22 ID:b4Dc_gRoQCrCA5UkqxTyFBzvy1I-RfC?PsB70Hq3NSgPqnL8w3uITXbGi WrCDoi



Scale = 1:54.1

Plate Offsets	(X,	Y):	[2:0-2-0,0-1-4]	
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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	0.97	Vert(LL)	-0.18	8-10	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.29	8-10	>848	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.70	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.09	8-10	>999	240	Weight: 81 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 7-6:2x8 SP 2400F WEBS

BRACING

Structural wood sheathing directly applied, TOP CHORD

except end verticals.

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

bracing

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

Max Horiz 11=221 (LC 5)

Max Uplift 7=-102 (LC 9), 11=-127 (LC 8) Max Grav 7=998 (LC 16), 11=1070 (LC 15)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/38, 2-3=-295/48, 3-4=-1152/193,

4-5=-1069/181, 5-6=-1219/172, 2-11=-306/77 6-7=-842/130

BOT CHORD 10-11=-204/1122, 8-10=-13/745,

7-8=-102/888

4-8=-75/384, 5-8=-234/221, 4-10=-92/529. WFBS

3-10=-260/229, 3-11=-1028/137

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, with BCDL = 10.0psf.
- 5) 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 11 and 102 lb uplift at joint 7.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER PE-2001018807



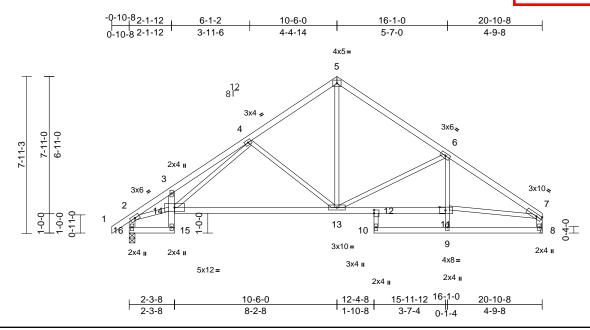


Job Truss Truss Type Qty Ply Lot 8 CB B240137 **B**5 Roof Special Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588892 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 0 322 ID:b4Dc_gRoQCrCA5UkqxTyFBzvy1l-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi 1423



Scale = 1:58.2

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	0.36	Vert(LL)	-0.15	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.32	13-14	>768	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.09	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.06	13-14	>999	240	Weight: 89 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 12-10:2x3 SPF No.2 2x3 SPF No.2 *Except* 16-2,8-7:2x4 SPF WEBS

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-11-14 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 16=220 (LC 5)

Max Uplift 8=-103 (LC 9), 16=-128 (LC 8) Max Grav 8=924 (LC 1), 16=999 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-1811/259, 3-4=-1963/380,

4-5=-997/163, 5-6=-1021/176,

6-7=-1478/164, 2-16=-970/155, 7-8=-867/129

BOT CHORD 15-16=-95/165, 14-15=-21/52,

3-14=-243/140, 13-14=-178/1100, 12-13=-83/1175, 11-12=-67/1058

10-12=0/74. 9-10=-16/117. 8-9=-16/137

WEBS 4-14=-187/819, 4-13=-462/229,

5-13=-79/675, 6-13=-498/215, 9-11=0/160, 6-11=0/181, 2-14=-218/1360, 7-11=-67/1031

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 128 lb uplift at joint 16 and 103 lb uplift at joint 8.

LOAD CASE(S) Standard





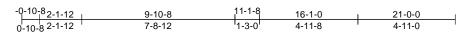


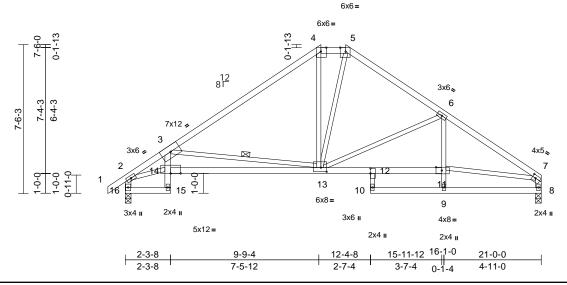
Job Truss Truss Type Qty Ply Lot 8 CB B240137 В6 Hip Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588893 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 03 224 ID:b4Dc_gRoQCrCA5UkqxTyFBzvy1I-RfC?PsB70Hq3NSgPqnL8w3uITXbGi WrCDoi 34250 A





Scale = 1:58.2

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

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	0.75	Vert(LL)	-0.12	13-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.26	13-14	>957	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.67	Horz(CT)	0.12	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.07	13-14	>999	240	Weight: 91 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 12-10:2x3 SPF No.2 2x3 SPF No.2 *Except* 16-2,8-7:2x4 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 (5-10-11 max.): 4-5. Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing, Except:

8-1-12 oc bracing: 13-14. WFBS 1 Row at midpt 3-13

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

Max Horiz 16=206 (LC 5)

Max Uplift 8=-102 (LC 9), 16=-125 (LC 8) Max Grav 8=930 (LC 1), 16=1005 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-1919/314, 3-4=-1152/132,

4-5=-831/179, 5-6=-1009/161,

6-7=-1508/153, 2-16=-954/139, 7-8=-874/129

15-16=-93/174, 14-15=-26/38, 3-14=0/317, 13-14=-513/2009, 12-13=-68/1197,

11-12=-49/1066, 10-12=0/67, 9-10=-19/131,

8-9=-20/156

WEBS 3-13=-1228/499, 4-13=-22/286,

5-13=-129/428, 6-13=-504/195, 9-11=0/174, 6-11=0/217, 2-14=-280/1470, 7-11=-48/1031

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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 125 lb uplift at joint 16 and 102 lb uplift at joint 8.
- 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







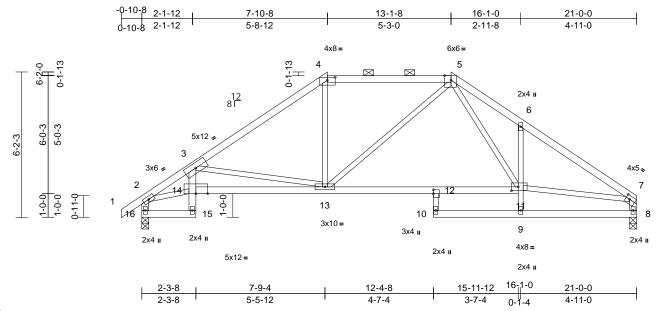
Job Truss Truss Type Qty Ply Lot 8 CB B240137 B7 Hip Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588894 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 ID:3Gn_C0RQBW_3nF3wOf_BnPzvy1H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCD



Scale = 1:48.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.12	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.26	12-13	>958	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.66	Horz(CT)	0.10	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.05	13-14	>999	240	Weight: 87 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except* 12-10:2x3 SPF No.2 2x3 SPF No.2 *Except* 16-2,8-7:2x4 SPF WEBS

BRACING

Structural wood sheathing directly applied or TOP CHORD 4-2-9 oc purlins, except end verticals, and

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

BOT CHORD Rigid ceiling directly applied or 9-9-0 oc bracing

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

Max Horiz 16=171 (LC 5)

Max Uplift 8=-89 (LC 9), 16=-112 (LC 8)

Max Grav 8=930 (LC 1), 16=1005 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/40, 2-3=-1856/243, 3-4=-1303/114.

4-5=-990/150, 5-6=-1506/232, 6-7=-1537/95,

2-16=-961/130, 7-8=-894/109

BOT CHORD 15-16=-78/161, 14-15=-17/34, 3-14=-5/242,

13-14=-359/1725, 12-13=-32/930, 11-12=-25/852, 10-12=0/23, 9-10=-44/78,

8-9=-47/109

WEBS 3-13=-825/348, 4-13=0/335, 5-13=-67/179,

2-14=-207/1389, 7-11=0/1097, 9-11=0/250,

6-11=-302/211, 5-11=-138/573

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 112 lb uplift at joint 16 and 89 lb uplift at joint 8.
- 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



July 2,2024



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



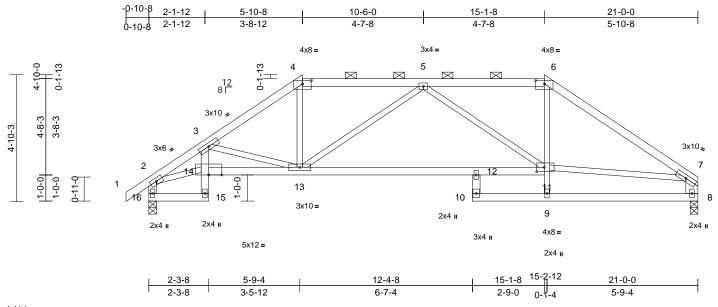
Truss Type Job Truss Qty Ply Lot 8 CB B240137 В8 Hip Job Reference (optiona

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588895 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 ID:3Gn_C0RQBW_3nF3wOf_BnPzvy1H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCD



Scale = 1:44.1

Plate Offsets (X, Y): [4:0-4-0,0-1-9], [6:0-4-0,0-1-9], [11:0-3-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.55			(/	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	вс		Vert(CT)	-0.34	12-13	>724	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.06	12-13	>999	240	Weight: 83 lb	FT = 10%

LUMBER

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

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

8-7:2x6 SPF No.2

BRACING

BOT CHORD

WEBS

TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins, except end verticals, and

2-0-0 oc purlins (5-2-9 max.): 4-6.

Rigid ceiling directly applied or 6-0-0 oc

bracing

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

Max Horiz 16=137 (LC 5)

Max Uplift 8=-70 (LC 9), 16=-94 (LC 8)

Max Grav 8=926 (LC 1), 16=1001 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/40, 2-3=-1805/181, 3-4=-1461/134,

4-5=-1158/130, 5-6=-1146/81, 6-7=-1475/61,

2-16=-963/114, 7-8=-899/95

BOT CHORD 15-16=-65/145, 14-15=-9/32, 3-14=-30/187,

13-14=-296/1575, 12-13=-211/1410, 11-12=-173/1365, 10-12=-61/0,

9-10=-102/45, 8-9=-96/91

WEBS 3-13=-465/215, 4-13=0/487, 9-11=0/328,

6-11=-11/451, 2-14=-182/1329,

7-11=-23/1053, 5-13=-386/179,

5-11=-405/211 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 94 lb uplift at joint 16 and 70 lb uplift at joint 8.
- 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



July 2,2024



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 besign value to use only with recks colline tools. This design is based only upon parameters shown, and is not an individual busining denipolinit, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

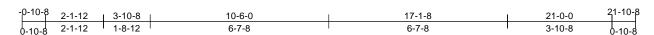


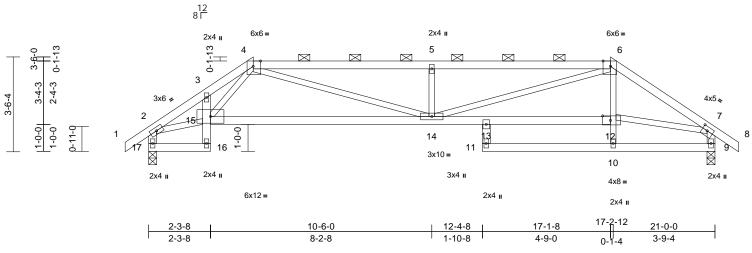
Truss Type Job Truss Qty Ply Lot 8 CB B240137 В9 Hip Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588896 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 ID:3Gn_C0RQBW_3nF3wOf_BnPzvy1H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCD





Scale = 1:42.7

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

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	0.87	Vert(LL)	-0.17	14-15	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.38	14-15	>651	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.11	9	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.12	14-15	>999	240	Weight: 83 lb	FT = 10%

LUMBER

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

2x3 SPF No.2 *Except* 17-2,9-7:2x4 SPF WEBS

BRACING TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 4-1-7 oc purlins, except end verticals, and

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 17=108 (LC 7)

Max Uplift 9=-99 (LC 4), 17=-99 (LC 5)

Max Grav 9=1003 (LC 1), 17=1003 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/40, 2-3=-1809/244, 3-4=-1842/259,

4-5=-2503/391, 5-6=-2503/391.

6-7=-1634/203, 7-8=0/40, 2-17=-979/122,

7-9=-959/116

BOT CHORD 16-17=-60/98. 15-16=0/43. 3-15=-112/108.

14-15=-267/1360, 13-14=-157/1316,

12-13=-176/1186, 11-13=0/92, 10-11=-2/130,

9-10=-4/152

4-15=-9/441, 4-14=-235/1247,

5-14=-565/228, 6-14=-259/1283,

10-12=0/173, 6-12=0/233, 2-15=-192/1354,

7-12=-183/1161

NOTES

WFBS

- 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 99 lb uplift at joint 17 and 99 lb uplift at joint 9.
- 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



July 2,2024



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 8 CB
B240137	B10	Hip Girder	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588897 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 03 224 ID:b4Dc_gRoQCrCA5UkqxTyFBzvy1I-RfC?PsB70Hq3NSgPqnL8w3uITXbGi WrCDoi 34250 A

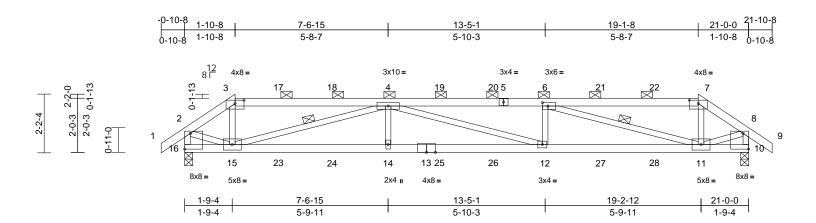


Plate Offsets (X, Y): [3:0-4-0,0-1-9], [6:0-2-8,0-1-8], [7:0-4-0,0-1-9], [10:Edge,0-7-0], [16:Edge,0-7-0]

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	0.53	Vert(LL)	-0.20	12-14	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.38	12-14	>649	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S		Wind(LL)	0.22	12-14	>999	240	Weight: 74 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-3 oc purlins, except end verticals, and

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

BOT CHORD

bracing. WFBS 1 Row at midpt 4-15, 6-11

REACTIONS (size) 10=0-3-8, 16=0-3-8 Max Horiz 16=72 (LC 7)

Max Uplift 10=-261 (LC 4), 16=-263 (LC 5)

Max Grav 10=993 (LC 1), 16=994 (LC 1)

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

TOP CHORD 1-2=0/38, 2-3=-1067/322, 3-4=-877/287, 4-6=-2659/834, 6-7=-877/284,

7-8=-1068/320, 8-9=0/38, 2-16=-1013/268,

8-10=-1012/265

BOT CHORD 15-16=-58/63, 14-15=-838/2658, 12-14=-838/2658, 11-12=-827/2659

10-11=-7/10

WEBS 3-15=-44/317, 4-15=-1868/583, 4-14=0/230, 4-12=-22/15, 6-12=0/230, 6-11=-1869/590,

7-11=-47/318, 2-15=-302/966, 8-11=-285/962

NOTES

- Unbalanced roof live loads have been considered for 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
- 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 263 lb uplift at joint 16 and 261 lb uplift at joint 10.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 117 lb down and 87 lb up at 1-10-8, 65 lb down and 41 lb up at 3-6-0, 65 lb down and 41 lb up at 5-6-0, 65 lb down and 41 lb up at 7-6-0, 65 lb down and 41 lb up at 9-6-0, 65 Ib down and 41 Ib up at 11-6-0, 65 Ib down and 41 Ib up at 13-6-0, 65 lb down and 41 lb up at 15-6-0, and 65 lb down and 41 lb up at 17-6-0, and 57 lb down and 43 lb up at 19-1-8 on top chord, and 18 lb down and 13 lb up at 1-10-8, 11 lb down and 13 lb up at 3-6-0, 11 lb down and 13 lb up at 5-6-0, 11 lb down and 13 lb up at 7-6-0, 11 lb down and 13 lb up at 9-6-0, 11 lb down and 13 lb up at 11-6-0, 11 lb down and 13 lb up at 13-6-0, 11 lb down and 13 lb up at 15-6-0, and 11 lb down and 13 lb up at 17-6-0, and 18 lb down and 13 lb up at 19-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-70, 2-3=-70, 3-7=-70, 7-8=-70, 8-9=-70, 10-16=-20

Concentrated Loads (lb)

Vert: 15=4 (B), 14=2 (B), 12=2 (B), 11=4 (B), 23=2 (B), 24=2 (B), 25=2 (B), 26=2 (B), 27=2 (B), 28=2 (B)



July 2,2024



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 8 CB B240137 C1 Common Supported Gable Job Reference (optional

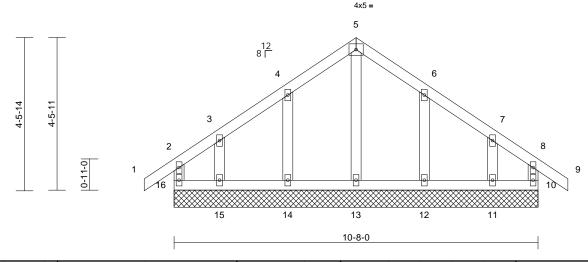
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588898 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 ID:7ufEnKQ9fujLYxwXHEyji_zvy1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J4





Scale = 1:33.8

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	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 44 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 10-0-0 oc purlins, except end verticals.

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

REACTIONS (size) 10=10-8-0, 11=10-8-0, 12=10-8-0, 13=10-8-0, 14=10-8-0, 15=10-8-0,

16=10-8-0 Max Horiz 16=-135 (LC 6)

Max Uplift 10=-40 (LC 5), 11=-82 (LC 9), 12=-73 (LC 9), 14=-72 (LC 8),

> 15=-86 (LC 8), 16=-58 (LC 4) 10=133 (LC 22), 11=161 (LC 16),

12=202 (LC 16), 13=176 (LC 1), 14=202 (LC 15), 15=170 (LC 15),

16=142 (LC 16)

FORCES (lb) - Maximum Compression/Maximum

Tension

Max Grav

TOP CHORD 2-16=-121/46, 1-2=0/40, 2-3=-75/77, 3-4=-53/82, 4-5=-45/114, 5-6=-37/108,

6-7=-39/77, 7-8=-54/59, 8-9=0/40, 8-10=-121/32

BOT CHORD 15-16=-64/66, 14-15=-64/66, 13-14=-64/66, 12-13=-64/66, 11-12=-64/66, 10-11=-64/66 WEBS

5-13=-137/0. 4-14=-162/99. 3-15=-120/90.

6-12=-163/100. 7-11=-116/88

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) 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 58 lb uplift at joint 16, 40 lb uplift at joint 10, 72 lb uplift at joint 14, 86 lb uplift at joint 15, 73 lb uplift at joint 12 and 82 lb uplift at joint 11.

LOAD CASE(S) Standard







Job Truss Truss Type Qty Ply Lot 8 CB B240137 G1 Flat Girder Job Reference (optional

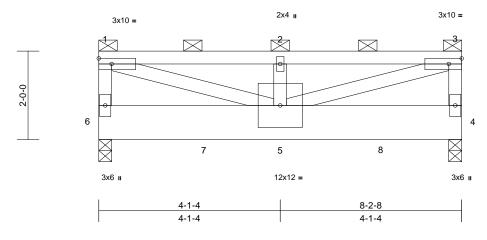
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588899 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 0 24/24 ID:3Gn_C0RQBW_3nF3wOf_BnPzvy1H-RfC?PsB70Hq3NSgPqnL8w3ulTXtbGKWrCDbr/7QJC?

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



Scale = 1:26.1

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	0.41	Vert(LL)	-0.05	5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.26	Vert(CT)	-0.09	5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.57	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P		Wind(LL)	0.03	5	>999	240	Weight: 53 lb	FT = 10%

LUMBER

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x10 SP 2400F 2.0E 2x4 SPF No.2 WEBS

BRACING

TOP CHORD 2-0-0 oc purlins (3-8-3 max.): 1-3, except

end verticals.

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

bracing.

REACTIONS (size) 4=0-3-8, 6=0-3-8

Max Horiz 6=56 (LC 5)

Max Uplift 4=-250 (LC 5), 6=-345 (LC 4) Max Grav 4=1809 (LC 15), 6=2556 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-6=-917/159, 1-2=-2225/294, 2-3=-2225/294, 3-4=-917/159

BOT CHORD 5-6=-49/44, 4-5=-21/16

WFBS 1-5=-327/2379, 2-5=-311/157, 3-5=-327/2379

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
- 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 SP 2400F 2.0E.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 345 lb uplift at joint 6 and 250 lb uplift at joint 4.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 912 lb down and 111 lb up at 0-1-12, 1010 lb down and 114 lb up at 2-4-8, and 1010 lb down and 114 lb up at 4-4-8, and 1010 lb down and 114 lb up at 6-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-3=-70, 4-6=-20 Concentrated Loads (lb)

Vert: 6=-912 (F), 5=-899 (F), 7=-899 (F), 8=-899 (F)



July 2,2024



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 8 CB B240137 J1 Diagonal Hip Girder 2 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588900 LEE'S SUMMIT. MISSOURI

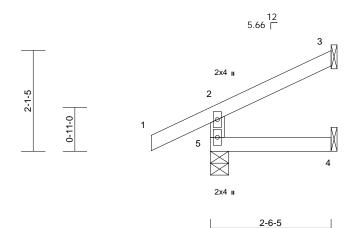
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 12 24 DID:7ufEnKQ9fujLYxwXHEyji_zvy1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J42CH

2-1

-1-2-14	2-6-5
1-2-14	2-6-5



Scale = 1:24.1

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	0.15	Vert(LL)	0.00	4-5	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R		Wind(LL)	0.00	4-5	>999	240	Weight: 8 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 2-6-5 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 5=58 (LC 8)

Max Uplift 3=-40 (LC 8), 5=-35 (LC 8)

3=57 (LC 1), 4=42 (LC 3), 5=230 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-202/59, 1-2=0/41, 2-3=-47/18

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 35 lb uplift at joint 5 and 40 lb uplift at joint 3.

LOAD CASE(S) Standard



July 2,2024



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 8 CB Jack-Open B240137 J2 10 Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588901 LEE'S SUMMIT. MISSOURI

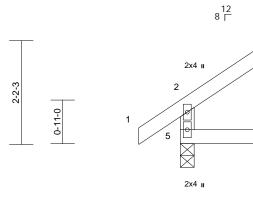
RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 12 24 DID:7ufEnKQ9fujLYxwXHEyji_zvy1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J42CH

2-2-0

-0-10-8	1-10-8
0-10-8	1-10-8



1-10-8

Scale =	1:24.2
---------	--------

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	0.07	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	4-5	>999	240		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-R							Weight: 7 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 1-10-8 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=61 (LC 8)

Max Uplift 3=-41 (LC 8), 4=-4 (LC 8), 5=-7 (LC

3=50 (LC 15), 4=31 (LC 3), 5=170 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-149/32, 1-2=0/40, 2-3=-49/22

BOT CHORD 4-5=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 7 lb uplift at joint 5, 4 lb uplift at joint 4 and 41 lb uplift at joint 3.

LOAD CASE(S) Standard



July 2,2024



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



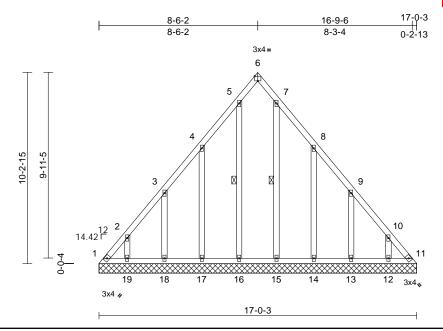
Job Truss Truss Type Qty Ply Lot 8 CB B240137 LAY1 Lay-In Gable Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588902 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 12 20 ID:7ufEnKQ9fujLYxwXHEyji_zvy1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J4sc



Scale = 1:61.7

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

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	0.07	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	0.12	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 93 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.

WEBS 1 Row at midpt 5-16, 7-15

REACTIONS (size) 1=17-0-3, 11=17-0-3, 12=17-0-3,

13=17-0-3, 14=17-0-3, 15=17-0-3, 16=17-0-3, 17=17-0-3, 18=17-0-3,

19=17-0-3

Max Horiz 1=-272 (LC 4)

Max Uplift 1=-158 (LC 6), 11=-140 (LC 7), 12=-137 (LC 9), 13=-150 (LC 9),

14=-177 (LC 9), 15=-33 (LC 9), 16=-48 (LC 8), 17=-174 (LC 8),

18=-150 (LC 8), 19=-137 (LC 8) Max Grav 1=377 (LC 8), 11=366 (LC 9),

12=193 (LC 16), 13=218 (LC 16), 14=224 (LC 16), 15=167 (LC 16), 16=184 (LC 15), 17=220 (LC 15),

18=218 (LC 15), 19=193 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-499/245, 2-3=-370/195, 3-4=-217/132,

4-5=-119/69, 5-6=-67/53, 6-7=-66/47 7-8=-99/43, 8-9=-202/109, 9-10=-355/171,

10-11=-484/221

BOT CHORD 1-19=-142/328, 18-19=-142/328

17-18=-142/328, 16-17=-142/328 15-16=-142/328, 14-15=-142/328 13-14=-142/328, 12-13=-142/328,

11-12=-142/328

WEBS 2-19=-154/153, 3-18=-178/176,

4-17=-180/197, 5-16=-144/72, 7-15=-127/57,

8-14=-184/201, 9-13=-177/175,

10-12=-154/153

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.
- Gable studs spaced at 0-0-0 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 158 lb uplift at joint 1, 140 lb uplift at joint 11, 137 lb uplift at joint 19, 150 lb uplift at joint 18, 174 lb uplift at joint 17, 48 lb uplift at joint 16, 33 lb uplift at joint 15, 177 lb uplift at joint 14, 150 lb uplift at joint 13 and 137 lb uplift at joint 12.

LOAD CASE(S) Standard



July 2,2024



TOP CHORD

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 8 CB B240137 V1 Valley Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588903 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 0 22 ID:7ufEnKQ9fujLYxwXHEyji_zvy1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J4

I/defI

n/a 999

n/a 999

n/a n/a

in

n/a

n/a

0.00

(loc)

5

L/d

PLATES

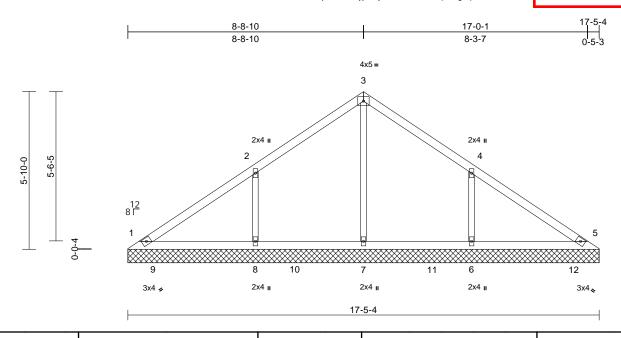
Weight: 51 lb

MT20

GRIP

197/144

FT = 10%



BCDL LUMBER

Scale = 1:42.6 Loading

TCLL (roof)

TCDI

BCLL

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

(psf)

25.0

10.0

10.0

0.0*

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=17-5-4, 5=17-5-4, 6=17-5-4,

7=17-5-4, 8=17-5-4 Max Horiz 1=-144 (LC 4)

Max Uplift 1=-15 (LC 9), 6=-178 (LC 9),

8=-178 (LC 8)

1=194 (LC 16), 5=178 (LC 1), Max Grav

6=543 (LC 16), 7=349 (LC 15),

8=543 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-151/110, 2-3=-149/130, 3-4=-140/109, 4-5=-118/74

1-8=-43/98, 7-8=-43/98, 6-7=-43/98, 5-6=-43/98

WEBS 3-7=-179/0, 2-8=-359/225, 4-6=-359/225

NOTES

BOT CHORD

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

DEFL

Vert(LL)

Vert(TL)

Horiz(TL)

0.24

0.14

0.13

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SPF No.2.

CSI

TC

BC

WB

Matrix-S

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 1, 178 lb uplift at joint 8 and 178 lb uplift at joint 6.

LOAD CASE(S) Standard

2-0-0

1.15

1 15

YES

IRC2021/TPI2014



July 2,2024



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

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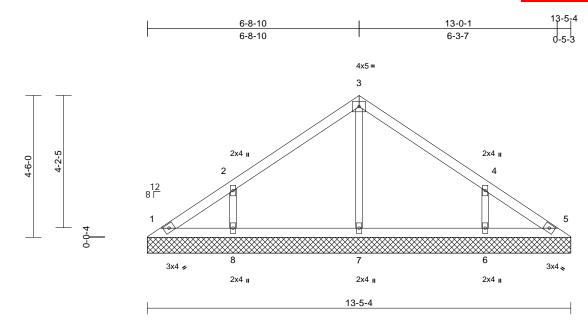
Truss Type Ply Job Truss Qty Lot 8 CB B240137 V2 Valley Job Reference (optional

DEVELOPMENT SERVICES 166588904 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 0 22 ID:7ufEnKQ9fujLYxwXHEyji_zvy1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J4



Scale = 1:36.6

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	0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 38 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=13-5-4, 5=13-5-4, 6=13-5-4,

7=13-5-4, 8=13-5-4 Max Horiz 1=109 (LC 5)

Max Uplift 1=-19 (LC 4), 6=-141 (LC 9),

8=-141 (LC 8)

1=102 (LC 16), 5=86 (LC 15), Max Grav

6=354 (LC 16), 7=284 (LC 1),

8=354 (LC 15)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-117/83, 2-3=-144/100, 3-4=-140/77,

4-5=-91/46

BOT CHORD 1-8=-27/74, 7-8=-27/74, 6-7=-27/74,

5-6=-27/74

WEBS 3-7=-200/18, 2-8=-285/182, 4-6=-284/182

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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 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 19 lb uplift at joint 1, 141 lb uplift at joint 8 and 141 lb uplift at joint 6.

LOAD CASE(S) Standard



July 2,2024



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



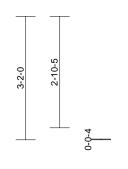
Truss Type Job Truss Qty Ply Lot 8 CB B240137 V3 Valley Job Reference (optional

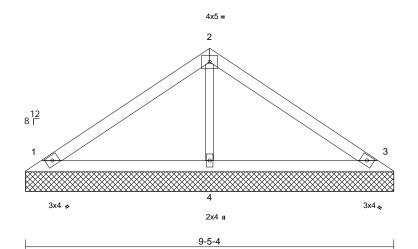
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166588905 LEE'S SUMMIT. MISSOURI

Wheeler Lumber, Waverly, KS - 66871,

Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 ID:7ufEnKQ9fujLYxwXHEyji_zvy1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J4







Scale = 1:29.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	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	0.06	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-S							Weight: 25 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=9-5-4, 3=9-5-4, 4=9-5-4

1=-74 (LC 6) Max Horiz

Max Uplift 1=-37 (LC 8), 3=-47 (LC 9), 4=-14

(LC 8)

1=197 (LC 1), 3=197 (LC 1), 4=373 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-147/70, 2-3=-147/53

BOT CHORD 1-4=-14/68, 3-4=-14/68

2-4=-243/62 WEBS

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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 1, 47 lb uplift at joint 3 and 14 lb uplift at joint 4.

LOAD CASE(S) Standard



July 2,2024



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 8 CB

 B240137
 V4
 Valley
 1
 1
 Job Reference (optional)

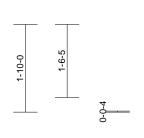
Wheeler Lumber, Waverly, KS - 66871,

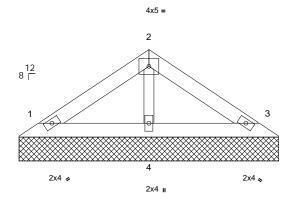
Run: 8.73 S Jun 13 2024 Print: 8.730 S Jun 13 2024 MiTek Industries, Inc. Non Jul 0 D: 22/1D:7ufEnKQ9fujLYxwXHEyji_zvy1J-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW_CDoi7J4scC+

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
165588906
LEE'S SUMMIT MISSOURI

RELEASE FOR CONSTRUCTION

2-8-10 5-0-1 2-8-10 2-3-7





Scale = 1:24.1

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	0.09	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	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2021/TPI2014	Matrix-P							Weight: 13 lb	FT = 10%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-0 oc purlins.

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

bracing.

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

Max Horiz 1=-39 (LC 4)

Max Uplift 1=-25 (LC 8), 3=-30 (LC 9) Max Grav 1=115 (LC 1), 3=115 (LC 1), 4=179

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-71/36, 2-3=-69/27 BOT CHORD 1-4=-8/33, 3-4=-8/33

WEBS 2-4=-122/31

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.
- 4) Gable requires continuous bottom chord bearing.
- 5) 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.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.

- 3) All bearings are assumed to be SPF No.2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 1 and 30 lb uplift at joint 3.

LOAD CASE(S) Standard

SCOTT M.
SEVIER

NUMBER
PE-2001018807

July 2,2024





RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIL-MISSOURI Offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.

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

connector plates.

This symbol indicates the required direction of slots in ₹

edge of truss.

For 4 x 2 orientation, locate plates 0- "46" from outside

PLATE SIZE

4 × 4

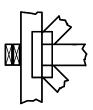
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

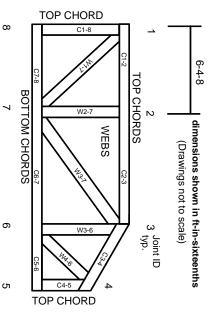
Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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

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

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