05/09/2024



RE: P240395-01 - Roof - WO Lot 130

MiTek, Inc.

Site Information:

16023 Swingley Ridge Rd. Chesterfield, MO 63017 Project Customer: Clayton Properties Project Name: Sheffield - Modern Prairie

Subdivision: Woodside Ridge

314.434.1200

Lot/Block: 130 Model:

Address: 2135 NW Killamey

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.6

Wind Code: ASCE 7-16 Wind Speed: 115 mph Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

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

Mean Roof Height (feet): 35 Exposure Category: C

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Premier Building Supply (Springhill, KS)20300 W 207th Street.

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.







RE: P240395-01 - Roof - WO Lot 130

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

No. Seal# Truss Name Date 69 165082302 V08 4/23/24 70 165082303 V09 4/23/24

Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 A01 Roof Special Supported Gable Job Reference (optional

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082234 LEE'S SUMMIT. MISSOURI

ID:hR7vMzJ2Qmd5?FPBXe_M?NywCJy-RfC?PsB70Hq3NSgPqnL8w3ulTXtGKWrCDe/7542JC

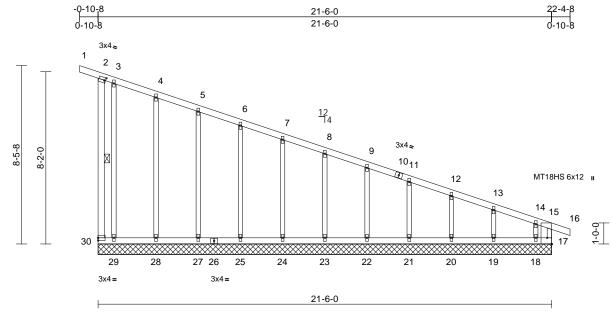


Plate Offsets (X, Y): [2:0-0-13,0-1-8], [15:Edge,0-2-8]

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	0.58	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	n/a	-	n/a	999	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	17	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 116 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.2 *Ex

2x4 SP No.2 *Except* 15-17:2x3 SPF No.2

2x3 SPF No.2 OTHERS

BRACING

Scale = 1:54.6

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

WFBS

1 Row at midpt 2-30 REACTIONS (size) 17=21-6-0, 18=21-6-0, 19=21-6-0, 20=21-6-0, 21=21-6-0, 22=21-6-0,

23=21-6-0, 24=21-6-0, 25=21-6-0, 27=21-6-0, 28=21-6-0, 29=21-6-0,

30=21-6-0 Max Horiz 30=-390 (LC 8)

18=-404 (LC 8), 19=-39 (LC 9), Max Uplift 20=-52 (LC 13), 21=-48 (LC 9),

22=-49 (LC 13), 23=-49 (LC 13), 24=-49 (LC 9), 25=-48 (LC 13), 27=-55 (LC 9), 28=-31 (LC 8), 29=-65 (LC 9), 30=-136 (LC 8)

Max Grav 17=463 (LC 8), 18=93 (LC 1), 19=187 (LC 1), 20=178 (LC 1), 21=180 (LC 1), 22=180 (LC 1),

23=180 (LC 1), 24=180 (LC 1), 25=180 (LC 1), 27=181 (LC 1), 28=181 (LC 1), 29=150 (LC 19),

30=111 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-30=-162/266, 1-2=-23/0, 2-3=-103/109, 3-4=-153/162, 4-5=-194/183, 5-6=-229/193, 6-7=-265/205, 7-8=-302/216, 8-9=-338/228,

9-11=-374/240, 11-12=-411/252 12-13=-447/264, 13-14=-482/275, 14-15=-601/335, 15-16=0/22,

15-17=-420/243 **BOT CHORD**

29-30=-291/539, 28-29=-291/539, 27-28=-291/539, 25-27=-291/539, 24-25=-291/539, 23-24=-291/539,

22-23=-291/539, 21-22=-291/539, 20-21=-291/539, 19-20=-291/539, 18-19=-291/539. 17-18=-291/539

8-23=-140/91. 7-24=-140/91. 6-25=-140/91. 5-27=-141/101, 4-28=-140/105, 3-29=-183/133, 9-22=-140/91,

11-21=-140/91, 12-20=-139/91 13-19=-146/92, 14-18=-229/370

NOTES

WFBS

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 22-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 MT20 plates unless otherwise indicated. All plates are 1.5x4 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.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 30, 49 lb uplift at joint 23, 49 lb uplift at joint 24, 48 Ib uplift at joint 25, 55 lb uplift at joint 27, 31 lb uplift at joint 28, 65 lb uplift at joint 29, 49 lb uplift at joint 22, 48 Ib uplift at joint 21, 52 lb uplift at joint 20, 39 lb uplift at joint 19 and 404 lb uplift at joint 18.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502 11 1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



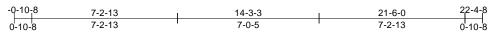
April 23,2024

FORCES

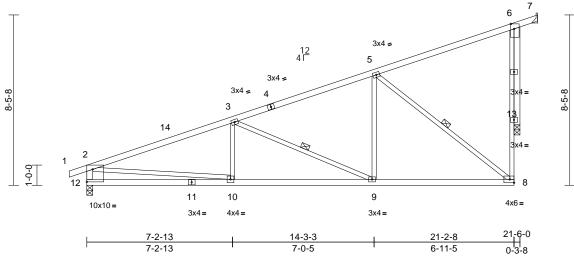
Ply Truss Type Job Truss Qty Roof - WO Lot 130 P240395-01 A02 Jack-Closed 11 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082235 LEE'S SUMMIT. MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 2 ID:80iA2gDVy5A5j3X8bOVbIdzP8a5-RfC?PsB70Hq3NSgPqnL8w3uITXbGK



MT18HS 5x8 II



Scale = 1:57.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	1 /d	PLATES	GRIP
Loading	(psi)	Spacing	2-0-0	CSI		DELL	111	(100)	i/deli	L/u	PLATES	GKIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.07	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.16	10-12	>999	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	-0.17	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 107 lb	FT = 20%

LUMBER

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

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

2x4 SP No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-12 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-6-1 oc

bracing

WFBS 1 Row at midpt 3-9.5-8

REACTIONS (size) 7= Mechanical, 12=0-3-8, 13=0-3-8

Max Horiz 12=383 (LC 9)

Max Uplift 7=-167 (LC 1), 12=-219 (LC 8), 13=-300 (LC 9)

Max Grav 7=147 (LC 11), 12=1005 (LC 1),

13=1199 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

2-12=-933/358, 1-2=0/23, 2-3=-1656/379, TOP CHORD

3-5=-958/276, 5-6=-203/185, 6-7=-81/66,

8-13=-145/721, 6-13=-478/399

BOT CHORD 10-12=-611/625, 9-10=-516/1496, 8-9=-296/836

WFBS 2-10=-99/1067, 3-10=0/208, 3-9=-722/241, 5-9=-17/498, 5-8=-1064/299

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 22-2-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.

- Bearings are assumed to be: Joint 12 SP No.2 crushing capacity of 565 psi, Joint 13 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 12, 167 lb uplift at joint 7 and 300 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



April 23,2024



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 Roof - WO Lot 130 P240395-01 AG01 Flat Girder 2 Job Reference (optional

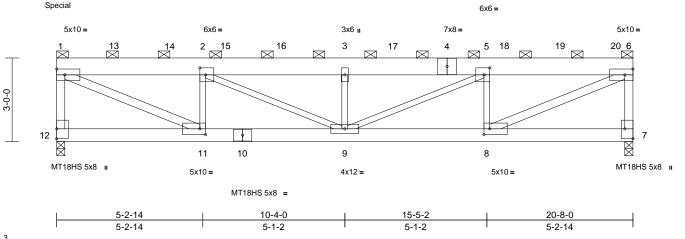
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082236 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 2213 4 ID:yyZHCQIzFfk27CofV0vHWTywCG5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoFd425C?





Scale = 1:41.3

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

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	0.73	Vert(LL)	-0.23	` ģ	>999	240	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.39	9	>625	180	MT20	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 263 lb	FT = 20%

LUMBER

TOP CHORD 2x8 SPF No.2 **BOT CHORD** 2x6 SP 2400F 2.0E

2x3 SPF No.2 *Except* 12-1.6-7:2x4 SP No.2, 11-1,8-6:2x4 SP 1650F 1.5E

BRACING

WEBS

2-0-0 oc purlins (3-9-8 max.): 1-6, except TOP CHORD

end verticals.

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

bracing

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

Max Horiz 12=-101 (LC 30)

Max Uplift 7=-1654 (LC 9), 12=-1475 (LC 8)

Max Grav 7=6994 (LC 1), 12=6090 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-5946/1636, 1-2=-10589/2781,

2-3=-13740/3571, 3-5=-13740/3571, 5-6=-10705/2809 6-7=-6845/1816

BOT CHORD 11-12=-180/211, 9-11=-2852/10589

8-9=-2834/10705, 7-8=-92/221 WFBS 1-11=-3022/11533. 2-11=-4981/1405.

2-9=-924/3501, 3-9=-2973/851,

5-9=-898/3372, 5-8=-5040/1419,

6-8=-3047/11651

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 oc, 2x8 - 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, 2x3 -

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.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1475 lb uplift at joint 12 and 1654 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 199 lb down and 199 lb up at 0-1-12, 1129 lb down and 270 Ib up at 2-0-12, 1129 lb down and 270 lb up at 4-0-12, 1129 lb down and 270 lb up at 6-0-12, 1129 lb down and 270 lb up at 8-0-12, 1129 lb down and 270 lb up at 10-0-12, 1129 lb down and 270 lb up at 12-0-12, 1129 lb down and 270 lb up at 14-0-12, 1129 lb down and 270 lb up at 16-0-12, and 1129 lb down and 270 lb up at 18-0-12, and 1148 lb down and 277 lb up at 20-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-6=-70, 7-12=-20

Concentrated Loads (lb)

Vert: 1=55 (F), 4=-1129, 3=-1129, 13=-1129,

14=-1129, 15=-1129, 16=-1129, 17=-1129, 18=-1129, 19=-1129, 20=-1148



April 23,2024



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

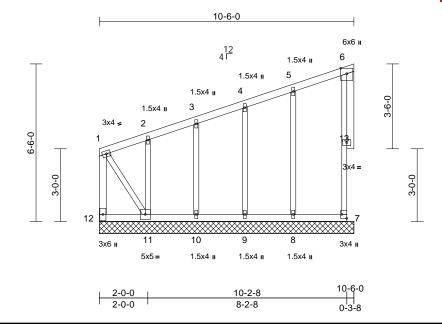


Job Truss Truss Type Qty Ply Roof - WO Lot 130 P240395-01 B01 Monopitch Supported Gable Job Reference (optional

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082237 LEE'S SUMMIT. MISSOURI

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 22<mark>13 🚁 6</mark> ID:MAbH_NJYZSPglcWuhoR2BAywCHN-RfC?PsB70Hq3NSgPqnL8w3ulTX GKWrCDdi7342UC



Scale = 1:47.5

Plate Offsets (X, Y): [7: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	0.59	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	0.19	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 12-1:2x4 SP No.2 WEBS 2x3 SPF No.2 *Except* 13-6:2x4 SP 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, Except: 8-2-4 oc bracing: 11-12.

REACTIONS (size)

7=10-6-0, 8=10-6-0, 9=10-6-0, 10=10-6-0, 11=10-6-0, 12=10-6-0

Max Horiz 12=272 (LC 9)

Max Uplift 7=-26 (LC 9), 8=-45 (LC 12), 9=-48

(LC 12), 10=-50 (LC 8), 11=-298

(LC 9)

7=86 (LC 1), 8=205 (LC 1), 9=175 Max Grav

(LC 1), 10=180 (LC 1), 11=190 (LC

1), 12=324 (LC 9)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-363/217, 2-3=-307/203, 3-4=-247/185,

4-5=-193/174, 5-6=-120/136, 6-7=-69/84,

1-12=-698/415

BOT CHORD 11-12=-519/383 10-11=-117/155

9-10=-117/155, 8-9=-117/155, 7-8=-117/155 2-11=-145/172. 3-10=-140/167

4-9=-137/172, 5-8=-163/221, 1-11=-468/780

WEBS NOTES

Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 9-1-12 to 14-1-12, Exterior(2N) 14-1-12 to 19-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 26 lb uplift at joint 7, 298 lb uplift at joint 11, 50 lb uplift at joint 10, 48 lb uplift at joint 9 and 45 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



April 23,2024



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	Roof - WO Lot 130
P240395-01	B02	Jack-Closed	10	1	Job Reference (optional)

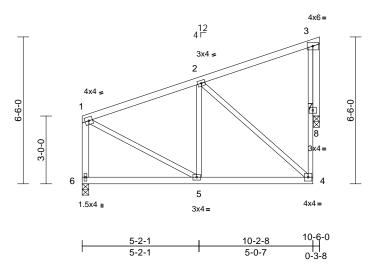
DEVELOPMENT SERVICES 165082238 LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22/13/25/46

ID:bAA6SGdrRSh_PcWuDFv8EfywCGz-RfC?PsB70Hq3NSgPqnL8w3uITXb 3KWrCD5ii J4zdC

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,





Scale = 1:51

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	0.40	Vert(LL)	-0.02	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.04	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 58 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 6-1:2x4 SP No.2 WEBS

2x4 SP 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 9-11-5 oc

bracing.

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

Max Horiz 6=213 (LC 9)

Max Uplift 6=-54 (LC 8), 8=-144 (LC 12)

Max Grav 6=460 (LC 1), 8=436 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-382/110, 2-3=-96/21, 4-7=-181/308,

3-7=-181/308, 1-6=-413/209

BOT CHORD 5-6=-347/241 4-5=-293/349 WEBS 1-5=-64/333, 2-4=-390/298, 2-5=-54/123,

3-8=-439/280

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-1-12 to 14-2-1, Interior (1) 14-2-1 to 19-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 6 and 144 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



April 23,2024







Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 **BG01** Flat Girder 2 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082239 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 22/13/2 ID:7XgaNY0YfbrJtgXEfh?t4dywCGS-RfC?PsB70Hq3NSgPqnL8w3uITXbGKtVrCDoi7342J5



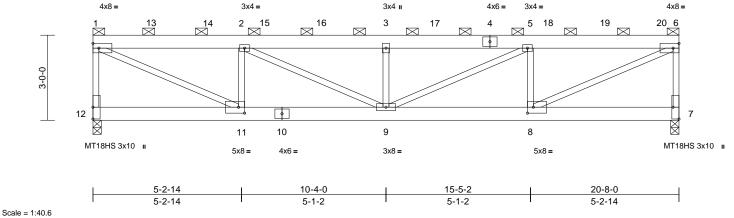


Plate Offsets (X, Y): [7:Edge,0-2-8], [8:0-2-8,0-2-8], [11:0-2-8,0-2-8]

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	0.38	Vert(LL)	0.12	9	>999	240	MT18HS	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.21	9	>999	180	MT20	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 200 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD

TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, except

end verticals.

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

bracing.

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

Max Horiz 12=-104 (LC 8)

Max Uplift 7=-816 (LC 9), 12=-727 (LC 8)

Max Grav 7=2904 (LC 1), 12=2619 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-12=-2535/918, 1-2=-4363/1498,

2-3=-5719/1926, 3-5=-5719/1926,

5-6=-4406/1510, 6-7=-2819/991

BOT CHORD 11-12=-149/156, 9-11=-1571/4363, 8-9=-1536/4406. 7-8=-57/64

1-11=-1640/4803, 2-11=-2062/815,

2-9=-527/1515, 3-9=-1227/498,

5-9=-517/1467, 5-8=-2084/821,

6-8=-1650/4847

NOTES

WEBS

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 727 lb uplift at joint 12 and 816 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 366 lb down and 133 lb up at 2-0-12, 366 lb down and 133 lb up at 4-0-12, 366 lb down and 133 lb up at 6-0-12, 366 lb down and 133 lb up at 8-0-12, 366 lb down and 133 lb up at 10-0-12, 366 lb down and 133 lb up at 12-0-12, 366 lb down and 133 lb up at 14-0-12, 366 lb down and 133 lb up at 16-0-12, and 366 lb down and 133 lb up at $\,$ 18-0-12, and 384 lb down and 126 lb up at 20-0-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-6=-70, 7-12=-20

Concentrated Loads (lb)

Vert: 4=-366, 3=-366, 13=-366, 14=-366, 15=-366, 16=-366, 17=-366, 18=-366, 19=-366, 20=-384





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

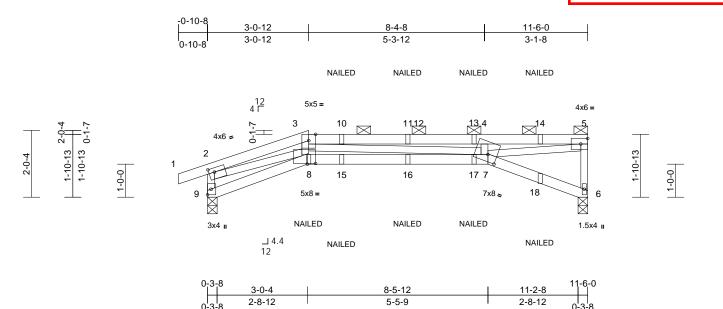


Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 C01 Half Hip Girder Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082240 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 15 2546 ID:73jRVBRtf17Uyv7meqcsSoywCFw-RfC?PsB70Hq3NSgPqnL8w3uITXbGl<mark>-</mark>WrCDoi7s423e7



Scale = 1:34.8

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

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	0.65	Vert(LL)	-0.16	7-8	>828	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.33	7-8	>415	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.19	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 48 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 3-5:2x4 SP 1650F

1.5E 2x4 SP No.2

BOT CHORD 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

2-0-0 oc purlins (3-9-2 max.): 3-5.

BOT CHORD Rigid ceiling directly applied or 5-4-2 oc

bracing

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

Max Horiz 9=82 (LC 9)

Max Uplift 6=-165 (LC 9), 9=-228 (LC 8)

Max Grav 6=611 (LC 1), 9=724 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-9=-712/420, 1-2=0/22, 2-3=-2599/1205,

3-4=-2354/1109, 4-5=-2292/1061,

5-6=-571/299

BOT CHORD 8-9=-219/177, 7-8=-1215/2425, 6-7=-38/52

WEBS 2-8=-1023/2341, 3-8=-152/460, 3-7=-90/74,

4-7=-367/287, 5-7=-1096/2315

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-0-12, Exterior(2R) 3-0-12 to 10-1-10, Interior (1) 10-1-10 to 11-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 228 lb uplift at joint 9 and 165 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 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, 8-9=-20, 7-8=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 8=-135 (F), 10=-18 (F), 11=-18 (F), 13=-18 (F), 14=-18 (F), 15=-10 (F), 16=-10 (F), 17=-10 (F),

18=-11 (F)



April 23,2024



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

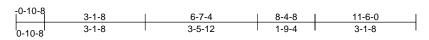


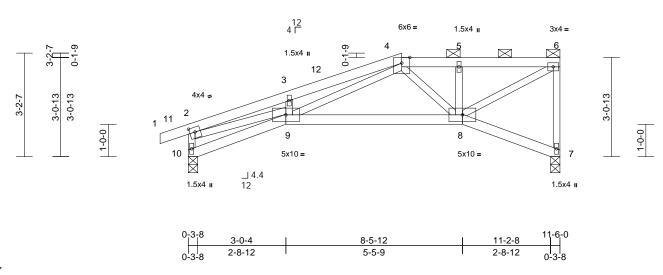
Job Truss Truss Type Qty Ply Roof - WO Lot 130 P240395-01 C02 Half Hip Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082241 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 2213 546 ID:yD4imEVeFtudgqbw?4jGi3ywCFq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7342JS





Scale = 1:35.7

Plate Offsets (X, Y): [2:0-2-0,0-1-12]

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	0.32	Vert(LL)	0.08	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.14	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 4-4-12 oc purlins, except end verticals, and

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

Rigid ceiling directly applied or 7-5-12 oc

bracing.

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

Max Horiz 10=137 (LC 9)

Max Uplift 7=-116 (LC 8), 10=-151 (LC 8)

Max Grav 7=505 (LC 1), 10=580 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-10=-569/396, 1-2=0/22, 2-3=-1559/1013,

3-4=-1536/1093, 4-5=-658/404,

5-6=-658/404 6-7=-484/344

BOT CHORD 9-10=-342/252, 8-9=-618/780, 7-8=-61/68 WEBS

2-9=-822/1340, 3-9=-121/172, 4-9=-608/751, 4-8=-172/188, 5-8=-184/163, 6-8=-511/756

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 6-7-4, Exterior(2E) 6-7-4 to 11-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 151 lb uplift at joint 10 and 116 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



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)



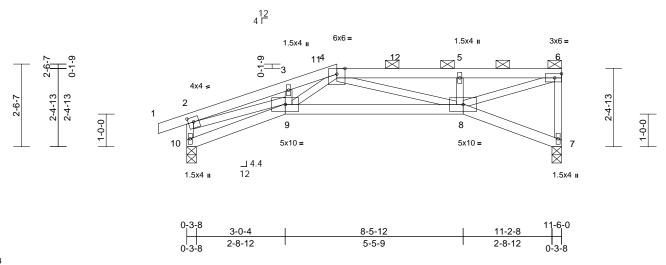
Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 C₀₂A Half Hip Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082242 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 2213 546 ID:EpfUgEYYastjtatnb6ZNjxynCaj-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J42967





Scale = 1:35.4

Plate Offsets (X, Y): [2:0-2-0,0-1-12]

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	0.25	Vert(LL)	0.07	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.14	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 49 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-5-13 oc purlins, except end verticals, and

2-0-0 oc purlins (5-4-11 max.): 4-6. Rigid ceiling directly applied or 6-8-11 oc

BOT CHORD bracing.

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

Max Horiz 10=105 (LC 11)

Max Uplift 7=-113 (LC 8), 10=-154 (LC 8) Max Grav 7=505 (LC 1), 10=580 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-10=-576/400, 1-2=0/22, 2-3=-1536/898,

3-4=-1461/930, 4-5=-1067/624, 5-6=-1064/621 6-7=-480/312

BOT CHORD 9-10=-273/218, 8-9=-775/1136, 7-8=-45/56

WEBS 2-9=-710/1309, 3-9=0/108, 4-9=-246/337, 4-8=-80/108, 5-8=-273/251, 6-8=-675/1122

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-7-4, Exterior(2E) 4-7-4 to 11-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 10, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 10 and 113 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



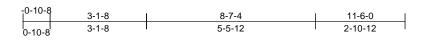


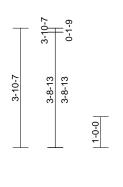
Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 C03 Half Hip Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082243 LEE'S SUMMIT. MISSOURI

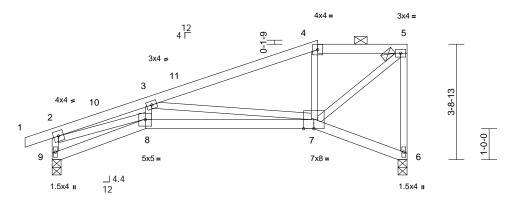
RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 22/13/25/46 ID:v8GJKYxDmxQW_MLr6eMi9eywCFG-RfC?PsB70Hq3NSgPqnL8w3uITXt GKWrCDef7342JC







0-3-8	3-0-4	8-5-12	11-2-8	11-6-0
0-3-8	2-8-12	5-5-9	2-8-12	0-3-8

Scale = 1:37.3

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)	0.10	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.55	Vert(CT)	-0.16	7-8	>862	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.08	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals, and

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

Rigid ceiling directly applied or 5-2-8 oc **BOT CHORD** bracing

REACTIONS (size) 6=0-3-8, 9=0-3-8 Max Horiz 9=168 (LC 9)

Max Uplift 6=-119 (LC 8), 9=-147 (LC 8)

Max Grav 6=505 (LC 1), 9=580 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

2-9=-556/352, 1-2=0/22, 2-3=-1668/1088,

3-4=-569/259, 4-5=-496/308, 5-6=-488/356

BOT CHORD 8-9=-373/273, 7-8=-1268/1521, 6-7=-77/86

2-8=-937/1479, 3-8=-130/268. WEBS

3-7=-1044/881, 4-7=-162/209, 5-7=-463/643

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 8-7-4, Exterior(2E) 8-7-4 to 11-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 6) Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 9 and 119 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.
- 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



April 23,2024



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

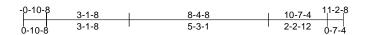


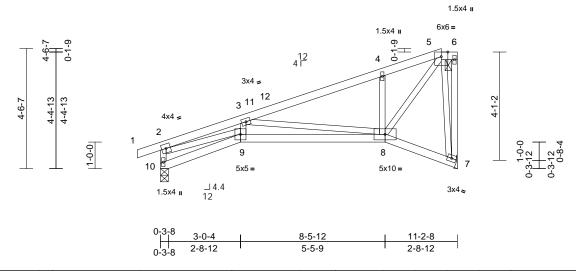
Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130	
P240395-01	C04	Half Hip	1	1	Job Reference (optional)	

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082244 LEE'S SUMMIT. MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 25 46 ID:nwVq9v_kqAwyTzecLUReJUywCFC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDorJ4zsd?





Scale = 1:43.5

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	0.39	Vert(LL)	0.09	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.15	8-9	>889	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.68	Horz(CT)	0.08	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 55 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 5-6. Rigid ceiling directly applied or 5-5-0 oc

BOT CHORD bracing

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

Max Horiz 10=199 (LC 9)

Max Uplift 7=-122 (LC 8), 10=-140 (LC 8)

Max Grav 7=492 (LC 1), 10=567 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-10=-547/350, 1-2=0/22, 2-3=-1572/937,

3-4=-553/221, 4-5=-525/289, 5-6=-86/93,

6-7=-114/116

BOT CHORD 9-10=-429/313, 8-9=-1178/1427,

7-8=-107/130

WFBS 2-9=-796/1378. 3-9=-140/266. 3-8=-958/780.

4-8=-347/338, 5-8=-516/728, 5-7=-416/347

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 10-7-4, Exterior(2E) 10-7-4 to 11-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.

- Bearings are assumed to be: Joint 10 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 10 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.
- 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



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



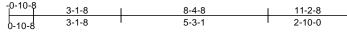
Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130
P240395-01	C05	Jack-Closed	1	1	Job Reference (optional)

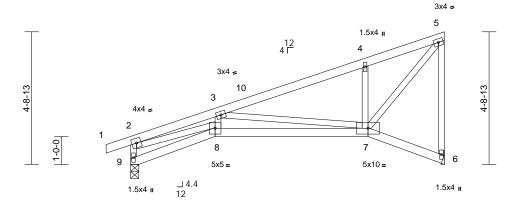
DEVELOPMENT SERVICES 165082245 LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22113 2547

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

8-4-8 11-2-8

ID:jldaab0_MnAgiHo_SvT6PvywCFA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi79239





0-3-8	3-0-4	8-5-12	11-2-8	ı
0-3-8	2-8-12	5-5-9	2-8-12	٦

Scale = 1:41.2

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	0.39	Vert(LL)	0.09	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.15	7-8	>877	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.08	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x3 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 5-5-3 oc

bracing.

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

Max Horiz 9=213 (LC 9)

Max Uplift 6=-126 (LC 12), 9=-137 (LC 8) Max Grav 6=492 (LC 1), 9=567 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-9=-547/349, 1-2=0/22, 2-3=-1575/903, 3-4=-539/214, 4-5=-534/289, 5-6=-477/361 BOT CHORD 8-9=-456/329, 7-8=-1171/1430, 6-7=-95/105

2-8=-765/1381, 3-8=-147/269, 3-7=-964/774,

4-7=-360/352, 5-7=-536/752

WFBS NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 11-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 9 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 9 and 126 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



April 23,2024



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



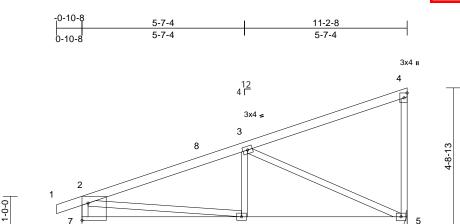
Ply Truss Type Job Truss Qty Roof - WO Lot 130 P240395-01 C06 Jack-Closed 8 Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082246 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 2213 547 ID:YS_rre5lxdxpQCG8p9aWeAywCF4-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoiYd42yC1

3x4 =



5-7-4 11-2-8 5-7-4 5-7-4

6

3x4 =

Scale = 1:39.7

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

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	0.45	Vert(LL)	-0.03	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.06	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 50 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 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 8-6-4 oc

bracing.

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

Max Horiz 7=212 (LC 9)

Max Uplift 5=-126 (LC 12), 7=-138 (LC 8) Max Grav 5=492 (LC 1), 7=567 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

2-7=-514/345, 1-2=0/22, 2-3=-716/285,

TOP CHORD 3-4=-128/93, 4-5=-156/168

BOT CHORD 6-7=-441/348, 5-6=-468/626

WFBS 2-6=-70/463, 3-6=0/212, 3-5=-678/439

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 11-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 7 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 7 and 126 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

10x10 =

OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

April 23,2024







Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130
P240395-01	C07	Half Hip Girder	1	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082247 LEE'S SUMMIT. MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

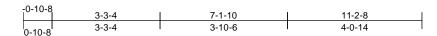
Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 15 2547 ID:J?TtWNBm34xhOQthHrjOzsywCEy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoir5425cf

NAILED

NAILED

NAILED

NAILED



NAILED

12 4 F 4x6 II 1.5x4 II 4x4 = 3 10 1314 11 12 3x4 2 1-0-0 9 15 16 18 8 7 17 3x6 II 3x4 =3x10 =1.5x4 II

NAILED

NAILED

NAILED 3-2-0 7-1-2 11-2-8 3-2-0 3-11-2 4-1-6

NAILED

Scale = 1:34.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	-0.03	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.06	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.37	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 49 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 5-6,9-2:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-8-14 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-14 max.): 3-5.

Rigid ceiling directly applied or 8-8-11 oc **BOT CHORD**

bracing.

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

Max Horiz 9=82 (LC 9)

Max Uplift 6=-167 (LC 9), 9=-227 (LC 8)

Max Grav 6=627 (LC 1), 9=732 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/23, 2-3=-1014/440, 3-4=-1043/477,

4-5=-1052/482, 5-6=-570/299, 2-9=-697/408 **BOT CHORD** 8-9=-198/153, 7-8=-455/930, 6-7=-48/52

WEBS 5-7=-473/1085, 2-8=-320/861, 3-8=-2/107,

3-7=-28/172, 4-7=-376/268

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-3-4, Exterior(2R) 3-3-4 to 10-4-2, Interior (1) 10-4-2 to 11-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 9 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 167 lb uplift at joint 6 and 227 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 Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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, 6-9=-20

Concentrated Loads (lb)

Vert: 8=-150 (B), 10=-26 (B), 11=-26 (B), 12=-26 (B),

13=-26 (B), 15=-13 (B), 16=-13 (B), 17=-13 (B),

18=-13 (B)





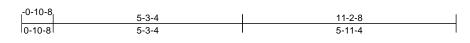


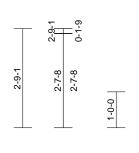
Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 C08 Half Hip Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082248 LEE'S SUMMIT. MISSOURI

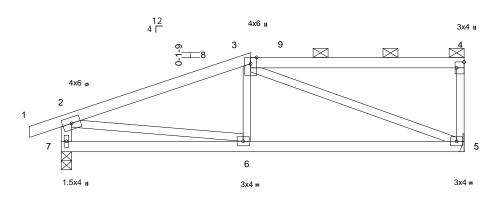
RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 22 13 2547 ID:89q8nRFXewhq6LKrd6qoC7ywCEs-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDolfd423C







5-2-0	11-2-8
5-2-0	6-0-8

Scale = 1:32

Plate Offsets (X, Y): [4: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	0.61	Vert(LL)	-0.04	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.08	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 48 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2

BOT CHORD WEBS

2x3 SPF No.2 *Except* 7-2:2x4 SP 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 (6-0-0 max.): 3-4.

BOT CHORD Rigid ceiling directly applied or 9-1-3 oc

bracing.

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

Max Horiz 7=113 (LC 11)

Max Uplift 5=-110 (LC 8), 7=-152 (LC 8) Max Grav 5=490 (LC 1), 7=568 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-709/361, 3-4=-79/82,

4-5=-203/184, 2-7=-521/382 BOT CHORD 6-7=-348/271, 5-6=-413/618

WEBS 3-6=0/202, 3-5=-620/380, 2-6=-116/425

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-3-4, Exterior(2E) 5-3-4 to 11-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 7 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 5 and 152 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

OF MISS SCOTT M. SEVIER PE-2001018807

April 23,2024



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 Ply Job Truss Qty Roof - WO Lot 130 P240395-01 C09 Half Hip

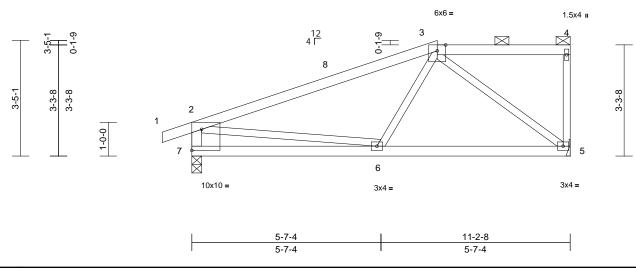
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

DEVELOPMENT SERVICES 165082249 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 15 2547

ID:JG?I5BOQ2J4Gw2gymvXN9SywCEh-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDer7542JC

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW





Scale = 1:34.1

Plate Offsets	(X,	Y):	[7:Edge,0-	7-8]
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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	0.71	Vert(LL)	-0.03	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 49 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 7-2:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 7-5-9 oc

bracing.

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

Max Horiz 7=145 (LC 9)

Max Uplift 5=-113 (LC 8), 7=-149 (LC 8) Max Grav 5=490 (LC 1), 7=568 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-606/243, 3-4=-71/73,

4-5=-127/104, 2-7=-520/369 BOT CHORD 6-7=-622/447, 5-6=-360/431

WEBS 3-6=0/257, 3-5=-538/403, 2-6=-8/288

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-3-4, Exterior(2E) 7-3-4 to 11-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 7 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 113 lb uplift at joint 5 and 149 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

OF MISS SCOTT M. SEVIER PE-2001018807

April 23,2024







 Job
 Truss
 Truss Type
 Qty
 Ply
 Roof - WO Lot 130

 P240395-01
 C10
 Half Hip
 1
 1
 Job Reference (optional)

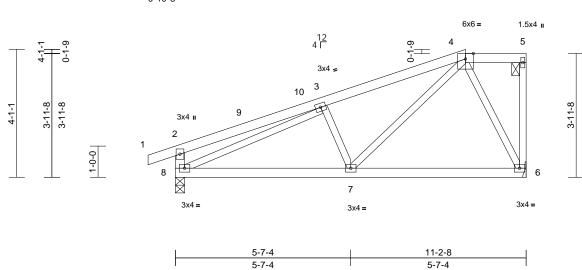
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
165082250
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S. Apr. 5 2024 Print: 8.630 S. Apr. 5 2024 MiTek Industries, Inc. Mgn Apr. 22 13 5 47 09/2 9:24
ID:8QMZLFTBe9rQfz767AenPjywCEb-RfC?PsB70Hq3NSgPqnL8w3uITXbG_WrCDon-42-0-ff





Scale = 1:36.8

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	0.27	Vert(LL)	-0.03	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 52 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x3 SPF No.2 *Except* 8-2:2x4 SP 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 (6-0-0 max.): 4-5.

BOT CHORD Rigid ceiling directly applied or 8-3-0 oc

bracing.

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

Max Horiz 8=177 (LC 9)

Max Uplift 6=-118 (LC 8), 8=-145 (LC 8)

Max Grav 6=490 (LC 1), 8=568 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/23, 2-3=-211/168, 3-4=-619/328,

4-5=-83/86, 5-6=-57/62, 2-8=-279/283

BOT CHORD 7-8=-505/629, 6-7=-212/216

WEBS 3-7=-239/293, 4-7=-260/479, 4-6=-450/366,

3-8=-532/162 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 9-3-4, Exterior(2E) 9-3-4 to 11-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 8 SP No.2 crushing capacity of 565 psi.
- 6) Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 6 and 145 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



April 23,2024

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	Roof - WO Lot 130	
P240395-01	CJ01	Diagonal Hip Girder	1	1	Job Reference (optional)	L

DEVELOPMENT SERVICES 165082251 LEE'S SUMMIT. MISSOURI

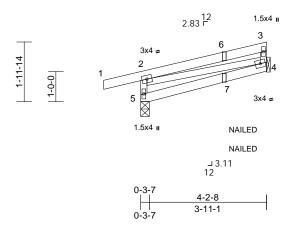
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

-1-2-14	4-2-8	
1-2-14	4-2-8	

NAII FD

NAILED



Scale = 1:38.5

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	0.32	Vert(LL)	-0.02	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-8 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing.

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

Max Horiz 5=63 (LC 9)

Max Uplift 4=-42 (LC 12), 5=-103 (LC 8) Max Grav 4=164 (LC 1), 5=289 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-250/355, 1-2=0/22, 2-3=-57/31,

3-4=-124/151 BOT CHORD 4-5=-158/68 WFBS 2-4=-48/139

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 103 lb uplift at joint 5 and 42 lb uplift at joint 4.

- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- 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=1 (F=0, B=0)







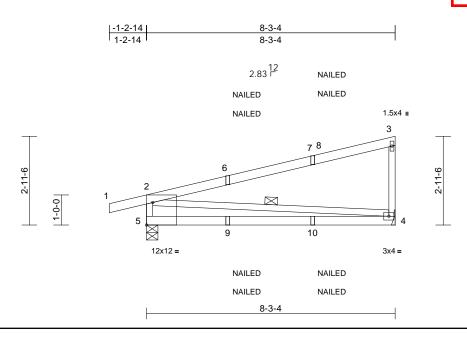
Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130	
P240395-01	CJ1	Diagonal Hip Girder	1	1	Job Reference (optional)	

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082252 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 22 15 2547 ID:qqJcwsdhQtBLhiTgJx5JuKzP7Oh-RfC?PsB70Hq3NSgPqnL8w3uITXbGK_VrCDoi7342JS



Scale = 1:38.3 Plate Offsets (X, Y): [5:Edge,0-9-0]

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)	-0.20	4-5	>476	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.41	4-5	>238	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E 2x4 SP 2400F 2.0E **BOT CHORD** 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.

WEBS 1 Row at midpt 2-4

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

Max Horiz 5=123 (LC 9)

Max Uplift 4=-101 (LC 12), 5=-146 (LC 8)

Max Grav 4=391 (LC 1), 5=481 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 2-5=-396/425, 1-2=0/22, 2-3=-134/81,

3-4=-299/292 BOT CHORD 4-5=-266/142 WEBS 2-4=-100/229

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 8-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 5 SP 2400F 2.0E crushing capacity of 805 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 146 lb uplift at joint 5 and 101 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 Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- 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=-37 (F=-18, B=-18), 9=1 (F=1, B=1), 10=-17

(F=-9, B=-9)









Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 CJ02 Diagonal Hip Girder

DEVELOPMENT SERVICES 165082253 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 5-48 ID:5wiKjkXGjoRJiGxhDUJ6sgywCKz-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi73 2.304

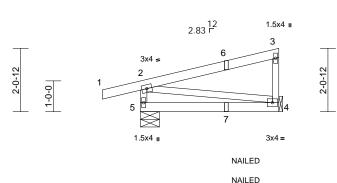
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,



NAILED

NAILED



Scale = 1:37.5

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	0.38	Vert(LL)	-0.02	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.04	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 4= Mechanical, 5=0-7-6

Max Horiz 5=83 (LC 9)

Max Uplift 4=-43 (LC 12), 5=-108 (LC 8) Max Grav 4=178 (LC 1), 5=301 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-259/348, 1-2=0/22, 2-3=-77/50, 3-4=-136/168

BOT CHORD 4-5=-184/94 WFBS 2-4=-67/161

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 5 and 43 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.

- 7) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 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=1 (F=0, B=0)



April 23,2024



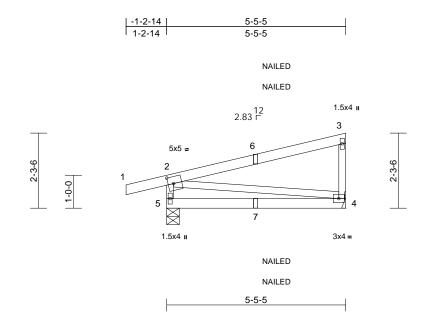


Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130
P240395-01	CJ2	Diagonal Hip Girder	2	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082254 LEE'S SUMMIT. MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 25.47 ID:qqJcwsdhQtBLhiTgJx5JuKzP7Oh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7



Scale = 1:35

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

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	0.63	Vert(LL)	-0.05	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.09	4-5	>697	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 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 4= Mechanical, 5=0-4-9 (size)

Max Horiz 5=93 (LC 9)

Max Uplift 4=-54 (LC 12), 5=-115 (LC 8) Max Grav 4=223 (LC 1), 5=341 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

2-5=-289/377, 1-2=0/22, 2-3=-93/59, TOP CHORD

3-4=-171/208 BOT CHORD 4-5=-208/108 WFBS 2-4=-77/182

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 115 lb uplift at joint 5 and 54 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 Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- 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=1 (F=1, B=1)



April 23,2024



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 Roof - WO Lot 130 P240395-01 CJ04 Diagonal Hip Girder Job Reference (optional

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082255 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 22 13 25 48 ID:Si5VTuCOX?UMQtDSVFKF8UywCK5-RfC?PsB70Hq3NSgPqnL8w3uITXLGKWrCbd7342JC?

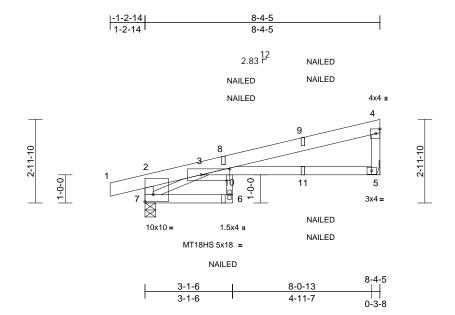


Plate Offsets (X, Y): [3:1-0-4,0-2-8], [7:Edge,0-3-0]

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	0.67	Vert(LL)	0.20	6	>494	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.26	6	>375	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.10	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 36 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2

BOT CHORD 2x4 SP No.2 *Except* 6-3:2x3 SPF No.2 2x4 SP No.2 *Except* 7-3:2x3 SPF No.2 WEBS 2x4 SP 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 6-0-0 oc bracing.

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

Max Horiz 7=103 (LC 9)

Max Uplift 5=-118 (LC 12), 7=-147 (LC 8) Max Grav 5=412 (LC 1), 7=507 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-545/466, 1-2=0/22, 2-3=-191/145,

3-4=-206/87, 4-5=-297/270 BOT CHORD 6-7=-46/0, 3-6=0/71, 3-5=-138/184

WEBS 3-7=-282/217

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 8-2-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 7 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 147 lb uplift at joint 7 and 118 lb uplift at joint 5.

- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- 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, 3-4=-70, 6-7=-20, 3-5=-20

Concentrated Loads (lb)

Vert: 6=0 (B), 9=-22 (F=-11, B=-11), 11=-53 (F=-27,

B = -27)





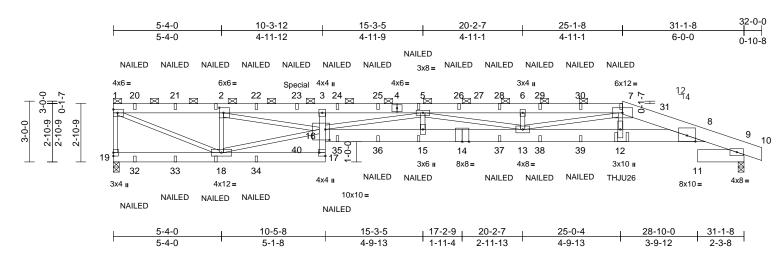




Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130	
P240395-01	D01	Half Hip Girder	1	3	Job Reference (optional)	

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082256 LEE'S SUMMIT. MISSOURI

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 2219 2548 ID:MHnPwqGDQWRGNhCqCMAGM1ywC3E-RfC?PsB70Hq3NSgPqnL8w3uTXbGKVvcDof/J4.



VERTICAL SUPPORT OF FREE END OF CHORD IS REQUIRED

Scale = 1:56.9

Plate Offsets (X, Y): [2:0-2-8,0-3-0], [8:0-5-0,0-3-8], [16:0-2-8,0-6-4], [17:Edge,0-3-8]

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	0.88	Vert(LL)	-0.45	13-15	>818	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.82	13-15	>450	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.87	Horz(CT)	0.25	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 530 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 *Except* 7-10:2x8 SPF No.2 **BOT CHORD**

2x8 SP 2400F 2.0E *Except* 19-17:2x6 SPF

No.2, 17-3:2x4 SP 1650F 1.5E, 11-9:2x8 SPF

No.2 2x3 SPF No.2

WEBS

BRACING TOP CHORD

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

2-0-0 oc purlins (6-0-0 max.): 1-7. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing

REACTIONS (size) 9=0-3-8, 19=0-3-8

Max Horiz 19=-112 (LC 10)

Max Uplift 9=-761 (LC 9), 19=-745 (LC 9)

9=2741 (LC 1), 19=2762 (LC 1) Max Grav

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-19=-2515/726. 1-2=-5123/1421.

2-3=-12442/3347, 3-5=-13179/3543,

5-6=-13517/3833, 6-7=-13517/3833

7-8=-11065/3185, 8-9=-1289/404, 9-10=-6/0

BOT CHORD 18-19=-57/165, 17-18=-454/1770,

16-17=-10/166, 3-16=-78/148

15-16=-4111/15395, 13-15=-4111/15395, 12-13=-3023/10790, 8-12=-2989/10659,

9-11=0/0

WEBS 1-18=-1502/5582, 2-18=-2646/787,

16-18=-875/3462, 2-16=-1996/7584,

7-12=-447/1698, 5-16=-2296/706,

7-13=-743/2828, 5-15=-99/565

5-13=-1948/475, 6-13=-221/152

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

Top chords connected as follows: 2x3 - 1 row 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 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.

Web connected as follows: 2x3 - 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),

Special connection required to distribute web loads equally between all plies.

unless otherwise indicated.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-4 to 5-4-0, Interior (1) 5-4-0 to 25-1-8, Exterior(2E) 25-1-8 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- arip 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.
- Bearings are assumed to be: Joint 19 SPF No.2 crushing capacity of 425 psi, Joint 9 SPF No.2 crushing
- capacity of 425 psi. Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 745 lb uplift at joint 19 and 761 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or
- 11) Use Simpson Strong-Tie THJU26 (SGL & SGL SHORT RC 2-PLY) or equivalent at 25-1-2 from the left end to connect truss(es) to front face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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



April 23,2024

NOTES

- 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	Roof - WO Lot 130	
P240395-01	D01	Half Hip Girder	1	3	Job Reference (optional)	

DEVELOPMENT SERVICES 165082256 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

40=-197 (F)

Uniform Loads (lb/ft) Vert: 1-7=-70, 7-10=-70, 17-19=-20, 8-16=-20, 9-11=-20 Concentrated Loads (lb) Vert: 18=-145 (F), 2=-21 (F), 12=-568 (F), 15=-177 (F), 20=-23 (F), 21=-21 (F), 22=-21 (F), 26=-127 (F), 32=-146 (F), 33=-145 (F), 34=-145 (F), 35=-177 (F),

36=-177 (F), 37=-184 (F), 38=-184 (F), 39=-184 (F),

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 2213 548 00 / 2024 ID:MHnPwqGDQWRGNhCqCMAGM1ywC3E-RfC?PsB70Hq3NSgPqnL8w3u TXbGkWcCorl/J42sC;P

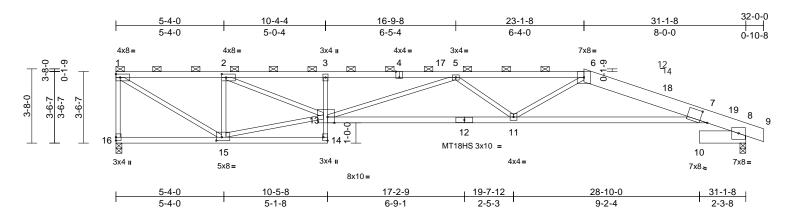


Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130
P240395-01	D02	Half Hip	1	1	Job Reference (optional

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 2213 548 ID:AEpzzqTVTRHu7ApibRQtTPywBzo-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoF442dC

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082257



VERTICAL SUPPORT OF FREE END OF CHORD IS REQUIRED.

Scale = 1:56.9

Plate Offsets (X, Y):	[2:0-2-8,0-2-0], [4:0-2-0,Edge],	[7:0-4-9,0-5-8], [13:0-4-0,Edge]	, [14:Edge,0-2-8], [15:0-3-4,0-2-0]
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Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
		-1 3						(/			-	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.49	11-13	>754	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-1.01	11-13	>366	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.37	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 144 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-9:2x8 SP 2400F

2.0E, 4-6:2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP 1650F 1.5E *Except* 16-14:2x4 SP No.2, 14-3:2x3 SPF No.2, 10-8:2x8 SPF No.2

WEBS 2x3 SPF No.2

BRACING

WFBS

NOTES

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

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

Max Horiz 16=-150 (LC 10)

Max Uplift 8=-343 (LC 9), 16=-306 (LC 9) Max Grav 8=1469 (LC 1), 16=1389 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-16=-1337/375, 1-2=-1923/485,

2-3=-4245/989, 3-5=-4321/996,

5-6=-4464/1028. 6-7=-3847/970

7-8=-579/169. 8-9=-6/0

BOT CHORD 15-16=-91/191, 14-15=-53/141, 13-14=0/88,

3-13=-380/174, 11-13=-1087/4819,

7-11=-835/3674, 8-10=0/0

1-15=-530/2237, 2-15=-1433/404, 13-15=-295/1817, 2-13=-552/2544,

5-13=-527/248, 5-11=-453/271, 6-11=-75/936

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-4 to 5-4-0, Interior (1) 5-4-0 to 23-1-8, Exterior(2R) 23-1-8 to 30-2-6, Interior (1) 30-2-6 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right

exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Provide adequate drainage to prevent water ponding.

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.

Bearings are assumed to be: Joint 16 SP No.2 crushing capacity of 565 psi, Joint 8 SPF No.2 crushing capacity of 425 psi.

Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 306 lb uplift at joint 16 and 343 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



April 23,2024



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

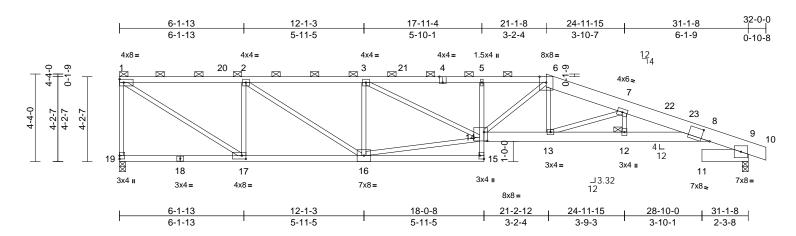


Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130	Ī
P240395-01	D03	Half Hip	1	1	Job Reference (optional	

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 2548 ID:349B4RLgWZLgIEJYpZjmObywByg-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDord425C?t

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082258 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



VERTICAL SUPPORT OF FREE END OF CHORD IS REQUIRED.

Plate Offsets (X, Y): [4:0-2-0,Edge], [8:0-5-5,0-5-4], [14:0-2-0,0-5-4], [15:Edge,0-2-8], [17:0-2-8,0-2-0]

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	0.69	Vert(LL)	-0.30	5-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.53	5-14	>695	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.22	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 167 lb	FT = 20%

LUMBER

BOT CHORD

TOP CHORD 2x4 SP No.2 *Except* 6-10:2x8 SP 2400F

2.0E

2x4 SP No.2 *Except* 15-5:2x3 SPF No.2,

14-8:2x6 SP 2400F 2.0E, 11-9:2x8 SPF No.2

WEBS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-7-12 oc purlins, except end verticals, and

2-0-0 oc purlins (2-5-8 max.): 1-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

JOINTS 1 Brace at Jt(s): 1,

12

REACTIONS (size)

9=0-3-8, 19=0-3-8 Max Horiz 19=-181 (LC 10)

Max Uplift 9=-342 (LC 9), 19=-307 (LC 9)

Max Grav 9=1469 (LC 1), 19=1389 (LC 1)

FORCES

TOP CHORD

(lb) - Maximum Compression/Maximum

Tension

1-19=-1333/389, 1-2=-1803/484,

2-3=-2664/702, 3-5=-3665/962, 5-6=-3662/957, 6-7=-3583/887,

7-8=-4526/1066, 8-9=-624/181, 9-10=-6/0

BOT CHORD 17-19=-114/226, 16-17=-313/1803,

15-16=-41/263, 14-15=0/111, 5-14=-327/192,

13-14=-682/3336, 12-13=-949/4356,

8-12=-949/4356, 9-11=0/0 **WEBS** 3-14=-289/1112, 6-14=-139/436,

2-17=-1024/365, 1-17=-516/2122,

2-16=-261/1031, 3-16=-903/314,

14-16=-498/2441, 6-13=-111/631, 7-13=-1073/330, 7-12=0/169

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-4 to 5-1-4, Interior (1) 5-1-4 to 21-1-8, Exterior(2R) 21-1-8 to 28-2-6, Interior (1) 28-2-6 to 32-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 19 SP No.2 crushing capacity of 565 psi, Joint 9 SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 307 lb uplift at joint 19 and 342 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





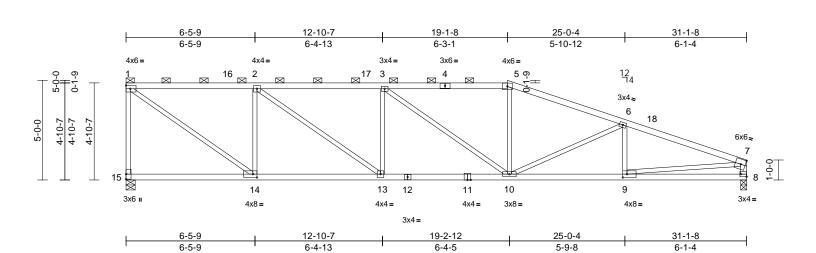


Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130	
P240395-01	D04	Half Hip	1	1	Job Reference (optional)	

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 22 15 2549 ID:b97ERwXiIUMPghXdlw?W1zywByQ-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDor7J42

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082259 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:57.8

Plate Offsets (X, Y): [8:Edge,0-1-8], [9:0-2-8,0-2-0], [14:0-2-8,0-2-0]

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	0.94	Vert(LL)	-0.17	10-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.33	10-13	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 138 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 8-7:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-10-11 oc purlins, except end verticals, and

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

BOT CHORD Rigid ceiling directly applied or 7-6-9 oc

bracing.

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

Max Horiz 15=-212 (LC 8)

Max Uplift 8=-297 (LC 9), 15=-310 (LC 9)

Max Grav 8=1389 (LC 1), 15=1389 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-15=-1332/401, 1-2=-1606/465,

2-3=-2341/671, 3-5=-2227/639, 5-6=-2415/647, 6-7=-2721/682,

7-8=-1317/393

BOT CHORD 14-15=-157/274, 13-14=-307/1606,

10-13=-513/2341, 9-10=-606/2522,

8-9=-117/314

WFBS 7-9=-492/2225, 5-10=-15/382, 3-10=-342/65,

2-14=-1006/382, 1-14=-495/1957, 2-13=-253/903, 3-13=-403/226, 6-10=-318/187, 6-9=-182/143

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-4 to 5-1-4, Interior (1) 5-1-4 to 19-1-8, Exterior(2R) 19-1-8 to 26-2-6, Interior (1) 26-2-6 to 30-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 310 lb uplift at joint 15 and 297 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



April 23,2024



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



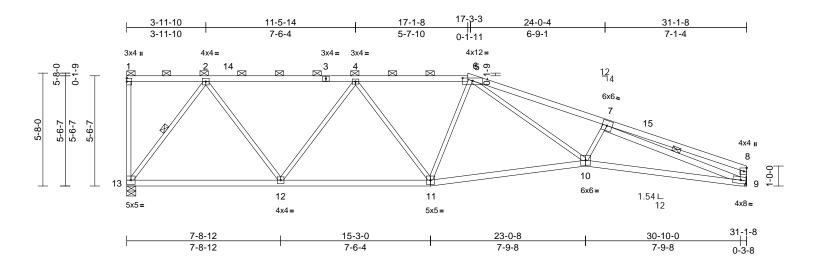
Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130	_
P240395-01	D05	Half Hip	1	1	Job Reference (optional	

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082260 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 15 2549 ID:f2Xva2j6D5FHz?BV7am187ywByB-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl_WrCDoi 342367



Scale = 1:57.8

Plate Offsets (2	X, Y):	[6:0-6-0,0-1-11],	[9:0-3-4,0-2-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.24	10-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.52	10-11	>712	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.17	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 142 lb	FT = 20%

LUMBER

BOT CHORD

2x4 SP No.2 *Except* 5-8:2x4 SP 2400F TOP CHORD

2.0E

2x4 SP No.2 *Except* 10-9:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 *Except* 9-8,9-7:2x4 SP No.2

BRACING TOP CHORD

WFBS

TOP CHORD

Structural wood sheathing directly applied or

3-11-7 oc purlins, except end verticals, and

2-0-0 oc purlins (3-4-8 max.): 1-5. BOT CHORD Rigid ceiling directly applied or 7-7-12 oc

bracing.

7-9, 2-13 1 Row at midpt

9= Mechanical, 13=0-5-8 REACTIONS (size)

Max Horiz 13=-245 (LC 8)

Max Uplift 9=-295 (LC 9), 13=-312 (LC 9)

Max Grav 9=1389 (LC 1), 13=1389 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-13=-69/46, 1-2=-115/117, 2-4=-1502/442,

4-5=-2039/590, 5-6=-1904/538,

6-7=-3696/960, 7-8=-556/188. 8-9=-395/194 **BOT CHORD** 12-13=-156/931, 11-12=-421/1951,

10-11=-456/2163, 9-10=-852/3532

WEBS 6-11=-266/172, 6-10=-385/1628,

7-10=-127/223, 7-9=-3327/779,

2-12=-169/979, 2-13=-1561/474, 4-12=-769/293, 4-11=-48/194

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-4 to 5-1-4, Interior (1) 5-1-4 to 17-1-8, Exterior(2R) 17-1-8 to 24-1-2, Interior (1) 24-1-2 to 30-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 13 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 312 lb uplift at joint 13 and 295 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





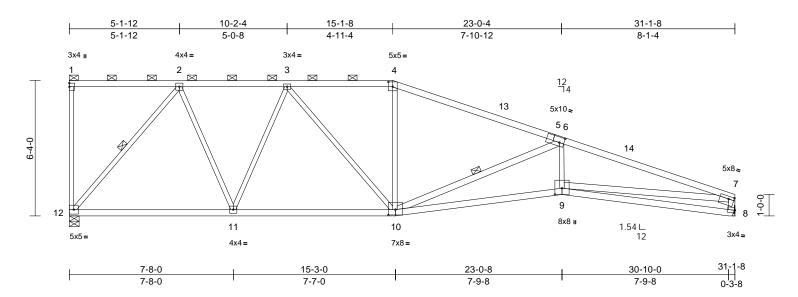


Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130	
P240395-01	D06	Roof Special	3	1	Job Reference (optional	

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 22/13/25/49 ID:RZpdWj4QI?pctzb_21mmYFywBv8-RfC?PsB70Hq3NSgPqnL8w3uITXbG WrCDoi 423

DEVELOPMENT SERVICES 165082261 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:53.9

Plate Offsets (X, Y): [4:0-2-8,0-2-11], [5:0-2-8,0-3-0], [7:0-3-0,0-1-8], [8:0-0-3,0-1-8], [9:0-3-8,0-4-0], [10:0-4-0,0-3-0]

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	0.66	Vert(LL)	-0.24	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.51	9-10	>725	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 152 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-5:2x4 SP 1650F

1.5E, 5-7:2x4 SP 2400F 2.0E

BOT CHORD 2x4 SP No.2 *Except* 10-9:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 *Except* 10-6,8-7,9-7:2x4 SP

No.2 BRACING

TOP CHORD Structural wood sheathing directly applied or

3-4-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-10 max.): 1-4.

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

bracing, Except:

7-10-3 oc bracing: 9-10. WFBS 6-10, 2-12 1 Row at midpt

REACTIONS (size) 8= Mechanical, 12=0-5-8

Max Horiz 12=-283 (LC 8)

Max Uplift 8=-292 (LC 9), 12=-315 (LC 9)

Max Grav 8=1389 (LC 1), 12=1389 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-12=-146/79, 1-2=-130/135, 2-3=-1320/413, 3-4=-1815/546, 4-6=-2015/540,

6-7=-3877/915, 7-8=-1357/415

BOT CHORD 11-12=-139/992, 10-11=-287/1577,

9-10=-821/3632, 8-9=-153/468 WEBS 4-10=0/278, 6-10=-1937/527, 6-9=-44/762,

7-9=-664/3147, 2-11=-142/852,

2-12=-1537/451, 3-11=-667/254

3-10=-148/371

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-4 to 5-1-12, Interior (1) 5-1-12 to 15-1-8, Exterior(2R) 15-1-8 to 20-1-8, Interior (1) 20-1-8 to 30-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- Bearings are assumed to be: Joint 12 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 315 lb uplift at joint 12 and 292 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

DOL=1.60



April 23,2024



NOTES

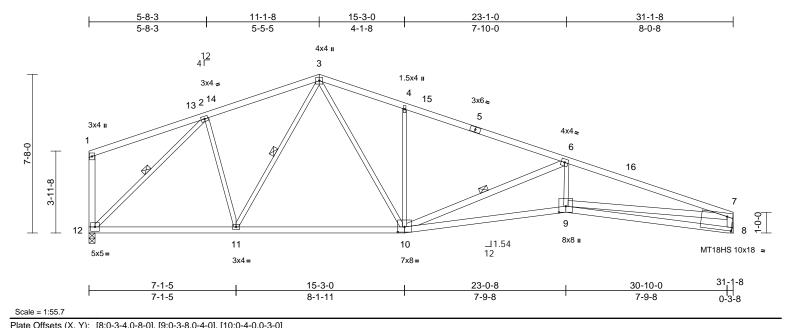


Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130
P240395-01	D07	Roof Special	2	1	Job Reference (optional)

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 2 ID:KcbZwvKbLSTduBi0nxehuhywBup-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl WrCDoi

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082262 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



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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	0.75	Vert(LL)	-0.24	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.51	9-10	>725	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.15	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 155 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 5-7:2x4 SP 2400F TOP CHORD

2.0E

BOT CHORD 2x4 SP No.2 *Except* 10-9:2x4 SP 1650F 1.5E

2x3 SPF No.2 *Except* 10-6,12-1,8-7,9-7:2x4 WEBS

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-4 oc purlins, except end verticals.

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

7-11-0 oc bracing: 9-10.

WEBS 1 Row at midpt 3-11, 6-10, 2-12

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

Max Horiz 12=-121 (LC 8) Max Uplift 8=-263 (LC 9), 12=-216 (LC 8)

Max Grav 8=1388 (LC 1), 12=1388 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=-131/137, 2-3=-1392/457, 3-4=-1997/613, 4-6=-2028/533,

6-7=-3860/900, 1-12=-174/106,

7-8=-1356/411

BOT CHORD 11-12=-213/1174, 10-11=-204/1329,

9-10=-808/3637, 8-9=-153/476 WEBS 3-11=-258/109, 3-10=-284/1065

4-10=-461/250, 6-10=-1917/514,

6-9=-42/762, 2-12=-1627/427,

7-9=-650/3121, 2-11=0/409

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-0-4 to 14-0-4, Interior (1) 14-0-4 to 20-0-0, Exterior(2R) 20-0-0 to 25-0-0, Interior (1) 25-0-0 to 39-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: Joint 12 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 8 and 216 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





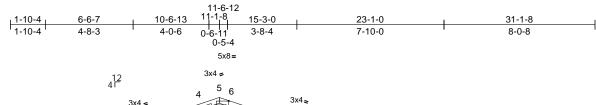
Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130
P240395-01	D08	Roof Special	2	1	Job Reference (optional

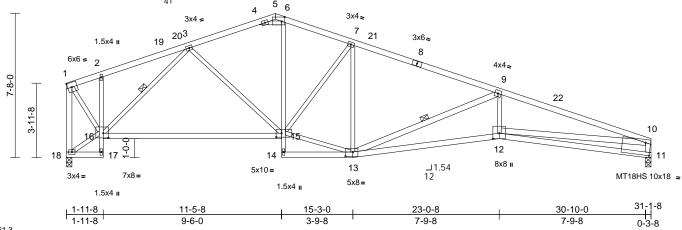
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082263 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 22 15 ID:zvJ5R?U7X8_wK1cKUSsVODywBud-RfC?PsB70Hq3NSgPqnL8w3ulTXb_3KWrCD





Scale = 1:61.3

Plate Offsets (X, Y): [5:0-2-0,0-2-12], [11:0-3-4,0-8-0], [12:0-3-8,0-4-0], [13:0-4-12,0-2-12], [15:0-3-8,0-2-8], [16:0-3-4,0-3-0]

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	0.72	Vert(LL)	-0.32	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.69	15-16	>540	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.18	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 164 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 8-10:2x4 SP 2400F TOP CHORD

2.0E

BOT CHORD 2x4 SP No.2 *Except* 17-2,6-14:2x3 SPF No.2, 13-12:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 *Except*

13-9,18-1,11-10,12-10:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-9-12 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 9-13, 3-16 1 Row at midpt REACTIONS 11=0-3-8, 18=0-3-8 (size)

Max Horiz 18=-121 (LC 8)

Max Uplift 11=-263 (LC 9), 18=-216 (LC 8) Max Grav 11=1388 (LC 1), 18=1388 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-769/232, 2-3=-844/283, 3-4=-1724/492,

TOP CHORD 4-5=-545/125, 5-6=-407/112, 6-7=-1756/514,

7-9=-2029/535 9-10=-3857/899

1-18=-1395/288, 10-11=-1357/411 BOT CHORD 17-18=-150/0, 16-17=-9/22, 2-16=-292/209,

15-16=-278/1438, 14-15=0/46,

6-15=-177/804, 13-14=-139/0, 12-13=-807/3634, 11-12=-154/479

WEBS 16-18=-71/290, 1-16=-251/1353,

13-15=-276/1946, 7-15=-496/232

7-13=-85/75, 9-13=-1911/510, 9-12=-41/763,

10-12=-647/3116, 3-15=-37/358,

3-16=-990/316, 4-6=-1120/383

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-0-4 to 14-0-4, Interior (1) 14-0-4 to 20-0-0, Exterior(2R) 20-0-0 to 25-0-0, Interior (1) 25-0-0 to 39-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 11 and 216 lb uplift at joint 18.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

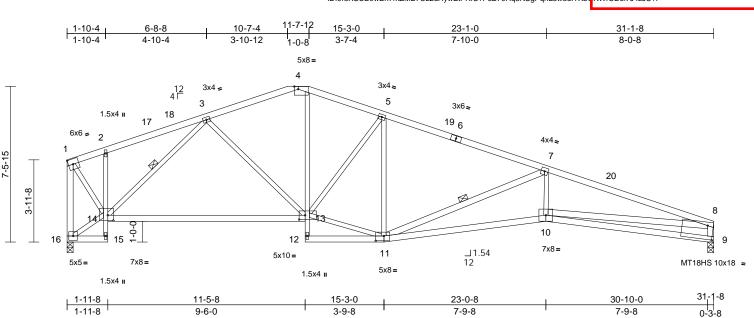




Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130
P240395-01	D09	Hip	1	1	Job Reference (optional

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 2 ID:9r3XSCE0wBn7mZME7Uz2uHywBtf-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDdi7J4

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082264 LEE'S SUMMIT. MISSOURI



Scale = 1:55.4

Plate Offsets (X, Y): [4:0-2-4,0-1-9], [9:0-3-4,0-8-0], [11:0-4-12,0-2-12], [13:0-3-8,0-2-8], [14:0-3-4,0-3-0]

9-6-0

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	0.74	Vert(LL)	-0.32	13-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.68	13-14	>544	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.18	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 163 lb	FT = 20%

7-9-8

3-9-8

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-8:2x4 SP 2400F

2.0E

BOT CHORD 2x4 SP No.2 *Except* 15-2,4-12:2x3 SPF No.2, 11-10:2x4 SP 1650F 1.5E

2x3 SPF No.2 *Except* WEBS

11-7,16-1,9-8,10-8:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 7-11. 3-14 1 Row at midpt REACTIONS 9=0-3-8, 16=0-3-8 (size)

Max Horiz 16=-121 (LC 8)

Max Uplift 9=-263 (LC 9), 16=-216 (LC 8) Max Grav 9=1388 (LC 1), 16=1388 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-768/244, 2-3=-838/301, 3-4=-1700/505,

4-5=-1762/532. 5-7=-2027/549. 7-8=-3859/915. 1-16=-1395/308.

8-9=-1357/415

BOT CHORD 15-16=-150/0, 14-15=-9/22, 2-14=-277/210,

13-14=-307/1462, 12-13=0/46, 4-13=-208/836, 11-12=-135/0, 10-11=-822/3636, 9-10=-154/477

WEBS 14-16=-71/298, 1-14=-259/1348, 11-13=-287/1936, 5-13=-466/230

5-11=-81/79, 7-11=-1916/514, 7-10=-43/764,

8-10=-662/3120, 3-13=-50/290,

3-14=-1016/334

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-0-4 to 14-0-4, Interior (1) 14-0-4 to 20-0-0, Exterior(2R) 20-0-0 to 27-0-14, Interior (1) 27-0-14 to 39-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 9 and 216 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



7-9-8

April 23,2024



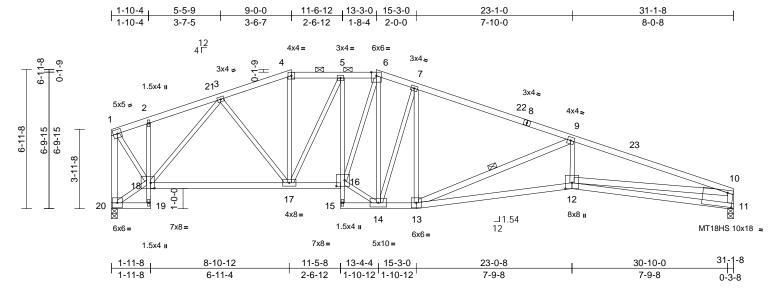


Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130
P240395-01	D11	Hip	1	1	Job Reference (optional)

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mdn Apr 22/13/15/45 ID:IXvqO_OodVY8SjQxxQDKTEywBtR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDor74230

DEVELOPMENT SERVICES 165082265 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:57.7

Plate Offsets (X, Y):	[11:0-3-4,0-8-8]	, [12:0-3-8,0-4-0]	, [16:0-5-0,0-3-8]	, [18:0-2-4,0-3-4]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.25	12-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.53	12-13	>692	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.19	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 177 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 8-10:2x4 SP 2400F

2.0E

BOT CHORD 2x4 SP No.2 *Except* 19-2,5-15:2x3 SPF No.2, 13-12:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 *Except*

13-9,20-1,11-10,12-10:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals, and

2-0-0 oc purlins (4-2-15 max.): 4-6.

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

bracing.

WEBS 1 Row at midpt 9-13

REACTIONS (size) 11=0-3-8, 20=0-3-8 Max Horiz 20=-132 (LC 8)

Max Uplift 11=-274 (LC 9), 20=-236 (LC 8)

Max Grav 11=1388 (LC 1), 20=1388 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

 $1\hbox{-}2\hbox{--}750/269,\ 2\hbox{-}3\hbox{--}789/316,\ 3\hbox{-}4\hbox{--}1701/541,$ TOP CHORD

4-5=-1580/534, 5-6=-1865/605,

6-7=-1736/597, 7-9=-2031/594, 9-10=-3863/952, 1-20=-1371/357,

10-11=-1357/425

BOT CHORD 19-20=-52/0, 18-19=-6/26, 2-18=-207/164,

17-18=-306/1365, 16-17=-368/1867, 15-16=0/35, 5-16=-88/395, 14-15=-6/67,

13-14=-366/1842, 12-13=-858/3640,

11-12=-155/474

18-20=-127/262, 1-18=-293/1299, 4-17=-62/316, 5-17=-714/231,

14-16=-359/1855, 6-16=-200/863, 6-14=-374/0, 7-14=-816/287, 7-13=-31/429,

9-13=-1916/522, 9-12=-49/764, 10-12=-724/3126, 3-17=-55/446,

3-18=-1041/348

- 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-0-4 to 14-0-4, Interior (1) 14-0-4 to 17-10-8, Exterior(2E) 17-10-8 to 22-1-8, Exterior(2R) 22-1-8 to 29-2-6, Interior (1) 29-2-6 to 39-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 274 lb uplift at joint 11 and 236 lb uplift at joint 20.
- 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



NOTES

WEBS



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 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)

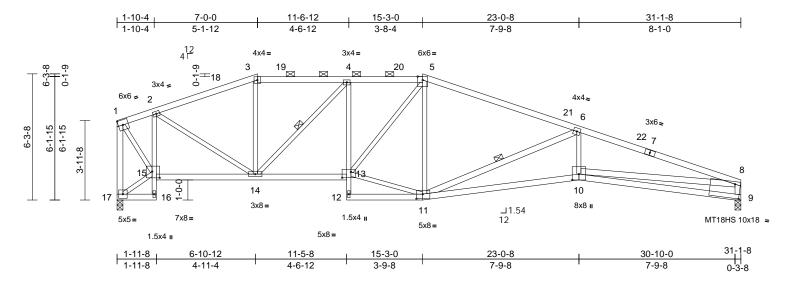


Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130	
P240395-01	D12	Hip	1	1	Job Reference (optional	

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 22/13/25/0 ID:PNhD2jyfodLcznxme426KxywBsj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J42J5

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082266



Scale = 1:57.5

Plate Offsets (X, Y): [9:0-3-4,0-8-8], [10:0-3-8,0-4-0], [11:0-3-12,0-2-12], [13:0-5-4,0-3-8], [15:0-4-8,0-3-12]

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	0.65	Vert(LL)	-0.24	10-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.52	10-11	>706	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.18	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 164 lb	FT = 20%

LUMBER

BOT CHORD

TOP CHORD 2x4 SP No.2 *Except* 5-7,7-8:2x4 SP 2400F

2.0E

2x4 SP No.2 *Except* 16-2,4-12:2x3 SPF

No.2, 11-10:2x4 SP 1650F 1.5E **WEBS** 2x3 SPF No.2 *Except*

17-1,9-8,10-8,6-11:2x4 SP No.2

BRACING

TOP CHORD

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

2-0-0 oc purlins (3-9-5 max.): 3-5.

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

bracing.

WEBS 1 Row at midpt 4-14, 6-11

REACTIONS (size) 9=0-3-8, 17=0-3-8 Max Horiz 17=-141 (LC 8)

Max Uplift 9=-283 (LC 9), 17=-253 (LC 8)

Max Grav 9=1388 (LC 1), 17=1388 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-802/300, 2-3=-1653/518,

3-4=-1517/523, 4-5=-2135/679,

5-6=-2024/592, 6-8=-3864/973, 1-17=-1361/380, 8-9=-1356/432

BOT CHORD 16-17=-16/10, 15-16=-6/28, 2-15=-1025/451,

14-15=-184/785, 13-14=-468/2142,

12-13=0/50, 4-13=-55/355, 11-12=-17/52,

10-11=-877/3626, 9-10=-156/473

WEBS 15-17=-162/264, 1-15=-343/1345,

2-14=-266/878, 3-14=0/245, 4-14=-958/274,

11-13=-380/1872, 5-13=-141/559, 5-11=-180/89, 8-10=-762/3128,

6-10=-52/762, 6-11=-1911/532

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-0-4 to 14-0-4, Interior (1) 14-0-4 to 15-10-8, Exterior(2R) 15-10-8 to 22-11-6, Interior (1) 22-11-6 to 24-1-8, Exterior(2R) 24-1-8 to 31-2-6, Interior (1) 31-2-6 to 39-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 283 lb uplift at joint 9 and 253 lb uplift at joint 17.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



April 23,2024



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	Roof - WO Lot 130
P240395-01	D13	Hip	1	1	Job Reference (optional

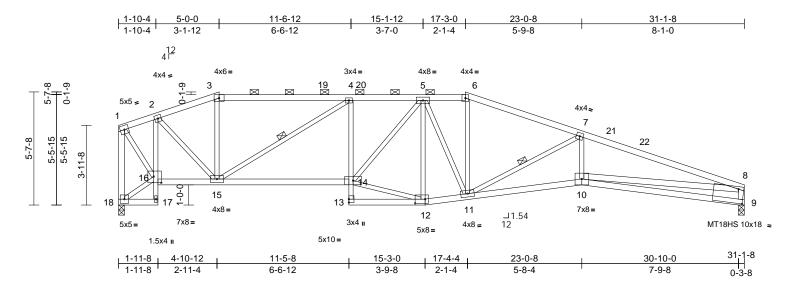
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22113 250

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082267 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

ID:2hPIZq5BzJsvPds4LbGwpTywBsX-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi7342367



Scale = 1:57.3

Plate Offsets (X, Y)	[9:0-3-4,0-8-8]	[12:0-6-0,0-2-8],	[16:0-4-8,0-3-12]
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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	0.82	Vert(LL)	-0.24	10-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.44	10-11	>837	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.81	Horz(CT)	0.19	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 162 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-8:2x4 SP 2400F

2.0E

BOT CHORD 2x4 SP No.2 *Except* 17-2,4-13:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 18-1,9-8,10-8:2x4 SP

No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and

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

BOT CHORD Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 4-15, 7-11

REACTIONS (size) 9=0-3-8, 18=0-3-8 Max Horiz 18=-150 (LC 8)

Max Uplift 9=-290 (LC 9), 18=-268 (LC 8)

Max Grav 9=1388 (LC 1), 18=1388 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-787/279, 2-3=-1448/437,

3-4=-1360/440, 4-5=-2406/716,

5-6=-2140/639, 6-7=-2331/653, 7-8=-3817/960, 1-18=-1356/363

8-9=-1358/434

17-18=-4/20, 16-17=-4/31, 2-16=-990/392, 15-16=-144/735, 14-15=-536/2423,

13-14=0/78, 4-14=0/304, 12-13=-36/76

11-12=-454/2072, 10-11=-861/3574, 9-10=-166/506

16-18=-174/248, 1-16=-283/1269,

2-15=-283/920, 3-15=0/193, 4-15=-1296/366,

12-14=-432/2060, 6-11=-112/480, 8-10=-718/3045, 5-12=-764/199,

5-11=-80/230, 5-14=-122/573, 7-10=-64/731,

7-11=-1586/458

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-0-4 to 13-10-8, Exterior(2R) 13-10-8 to 20-11-6, Interior (1) 20-11-6 to 26-1-8, Exterior(2R) 26-1-8 to 33-2-6, Interior (1) 33-2-6 to 39-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 290 lb uplift at joint 9 and 268 lb uplift at joint 18.
- 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



April 23,2024



WEBS

BOT CHORD



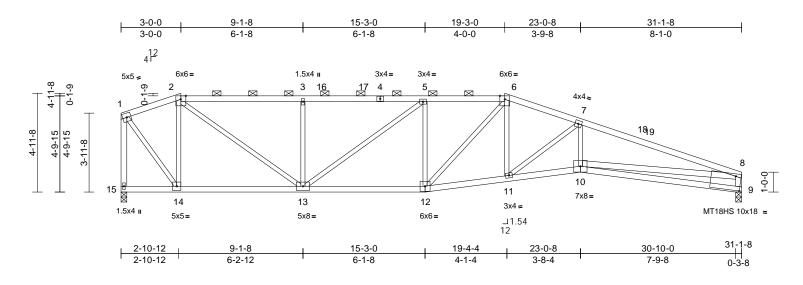
Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130
P240395-01	D14	Hip	1	1	Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 22/13/25/0 ID:amNowIIDCEteK549HzYgTrywBsH-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoin-42bc-f

DEVELOPMENT SERVICES 165082268 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:57.8

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

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	0.82	Vert(LL)	-0.22	10-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.40	9-10	>920	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 151 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-8:2x4 SP 2400F

2.0E

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 15-1,9-8,10-8:2x4 SP **WEBS**

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 6-4-3 oc

bracing.

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

Max Horiz 15=-159 (LC 8)

Max Uplift 9=-295 (LC 9), 15=-281 (LC 8) Max Grav 9=1388 (LC 1), 15=1388 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-848/283 2-3=-2018/582

3-5=-2016/580, 5-6=-2402/707, 6-7=-2679/738, 7-8=-3802/961,

1-15=-1373/397, 8-9=-1359/436

BOT CHORD 14-15=-135/217. 13-14=-136/810.

12-13=-548/2399, 11-12=-552/2505,

10-11=-859/3556, 9-10=-168/517 1-14=-368/1309, 2-14=-951/364,

2-13=-396/1520, 3-13=-492/248,

5-13=-487/155, 5-12=-234/135,

6-12=-129/105, 6-11=-163/744

7-11=-1298/390, 8-10=-690/3018,

7-10=-71/711

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 9-0-4 to 11-10-8, Exterior(2R) 11-10-8 to 18-11-6, Interior (1) 18-11-6 to 28-1-8, Exterior(2R) 28-1-8 to 35-2-6, Interior (1) 35-2-6 to 39-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 281 lb uplift at joint 15 and 295 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.
- 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



April 23,2024



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

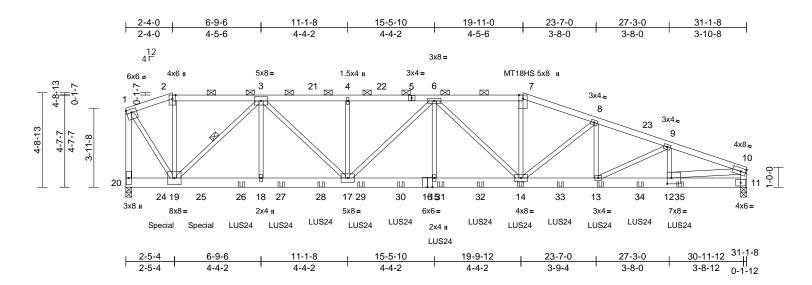


Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130	
P240395-01	D15	Hip Girder	1	2	Job Reference (optional	

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082269 LEE'S SUMMIT. MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 22/13/25/50 ID:7UYHh?pN5S3UD845f3azSQywC9_-RfC?PsB70Hq3NSgPqnL8w3ulTXbcKWrCDoi7U4



Scale = 1:57.8

Plate Offsets (X, Y):	[1:Edge,0-2-0],	[12:0-2-8,0-3-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.24	14-15	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.43	14-15	>867	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.07	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 357 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 20-1,11-10,12-10:2x4 WEBS

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-14 oc purlins, except end verticals, and

2-0-0 oc purlins (3-11-5 max.): 2-7.

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

WEBS 1 Row at midpt

REACTIONS (size) 11=0-3-8, 20=0-3-8

Max Horiz 20=-159 (LC 8) Max Uplift 11=-1221 (LC 9), 20=-1290 (LC 8) Max Grav 11=4639 (LC 1), 20=4872 (LC 1)

3-19

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-2657/809, 2-3=-2534/788

> 3-4=-8429/2410, 4-6=-8429/2410, 6-7=-8406/2407. 7-8=-8793/2491. 8-9=-9562/2664, 9-10=-8833/2447

1-20=-4778/1368, 10-11=-4265/1216

BOT CHORD 19-20=-121/219, 18-19=-1657/6262, 17-18=-1657/6262, 15-17=-2494/9202,

14-15=-2494/9202, 13-14=-2441/9048,

12-13=-2295/8322, 11-12=-321/1059

2-19=-156/634, 3-19=-5218/1480, 3-18=-264/1158, 3-17=-841/3035,

4-17=-280/130, 6-17=-1086/329, 6-15=-250/1105, 6-14=-1255/347, 7-14=-649/2482, 8-14=-918/307, 8-13=-155/668, 9-13=-210/873,

9-12=-789/280, 1-19=-1326/4647,

10-12=-2006/7378 NOTES

WEBS

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

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

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

Web connected as follows: 2x3 - 1 row 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 2-4-0, Exterior(2R) 2-4-0 to 9-4-14, Interior (1) 9-4-14 to 19-11-0, Exterior(2R) 19-11-0 to 27-3-0, Interior (1) 27-3-0 to 30-11-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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.
- Bearings are assumed to be: Joint 20 SP 2400F 2.0E crushing capacity of 805 psi, Joint 11 SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1290 lb uplift at joint 20 and 1221 lb uplift at joint 11.

- 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 LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 5-9-8 from the left end to 27-9-8 to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 472 lb down and 134 lb up at 1-9-8, and 472 lb down and 138 lb up at 3-9-8 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70, 2-7=-70, 7-10=-70, 11-20=-20



April 23,2024

Continued on page 2

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 Roof - WO Lot 130 Job Truss Truss Type Qty 2 P240395-01 D15 Hip Girder Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082269 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 22 13 55 0 9 / 2 10:7UYHh?pN5S3UD845f3azSQywC9_-RfC?PsB70Hq3NSgPqnL8w3ulTXbcKWrCDorJ 20:10 10:00 10:

Vert: 14=-472 (B), 13=-470 (B), 24=-472 (B), 25=-472 (B), 26=-472 (B), 27=-472 (B), 28=-472 (B), 29=-472 (B), 30=-472 (B), 31=-472 (B), 32=-472 (B), 33=-470 (B), 34=-470 (B), 35=-607 (B)



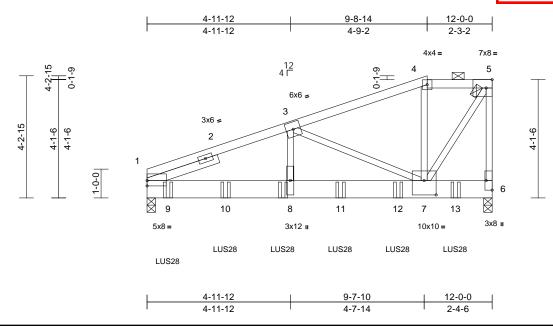
Job Truss Truss Type Qty Ply Roof - WO Lot 130 P240395-01 F03 Half Hip Girder 2 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082270 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 2213 551 ID:PBGVl9aenInNadLa7IT3uhywBrw-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7342JS



Scale = 1:40.1

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

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	0.73	Vert(LL)	-0.07	7-8	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.13	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 147 lb	FT = 20%

LUMBER

2x4 SP 2400F 2.0E *Except* 4-5:2x4 SP TOP CHORD

No.2

BOT CHORD 2x8 SP 2400F 2 0F WFBS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 2-7-3

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-2-11 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 (size) 1=0-3-8, 6=0-3-8

Max Horiz 1=174 (LC 11)

Max Uplift 1=-1034 (LC 8), 6=-965 (LC 8) Max Grav 1=4768 (LC 1), 6=4518 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-6703/1655, 3-4=-2673/677,

4-5=-2522/676, 5-6=-4166/1100

BOT CHORD 1-8=-1691/6134, 7-8=-1691/6134, 6-7=-72/86

WEBS 4-7=-168/584, 5-7=-1236/4771 3-7=-3983/1094, 3-8=-645/3257

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, 2x3 - 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x8 2 rows staggered at 0-6-0 oc.
- Web connected as follows: 2x3 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-11-12, Interior (1) 4-11-12 to 9-8-14, Exterior(2E) 9-8-14 to 11-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1034 lb uplift at joint 1 and 965 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie LUS28 (6-SD9112 Girder, 4-SD9212 Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 0-8-12 from the left end to 10-8-12 to connect truss(es) to back face of bottom chord.
- 12) 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: 1-4=-70, 4-5=-70, 1-6=-20

Concentrated Loads (lb)

Vert: 8=-1369 (B), 9=-1372 (B), 10=-1369 (B), 11=-1369 (B), 12=-1368 (B), 13=-1368 (B)



April 23,2024



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	Roof - WO Lot 130
P240395-01	H1	Roof Special Girder	1	1	Job Reference (optional

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 22 13 251 ID:Y1Spa5yc3AbVRs1sO64eU0zP7OG-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDoirJ4z

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082271 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

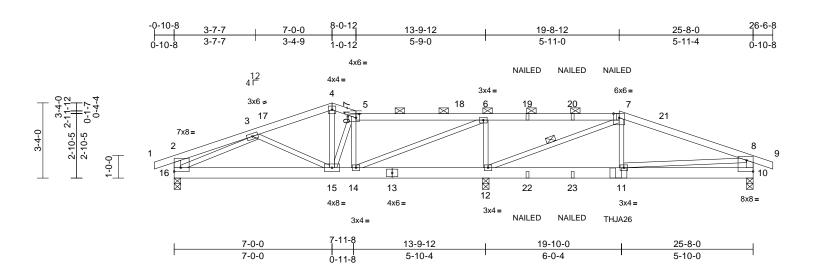


Plate Offsets (X, Y): [2:Edge,0-2-0], [5:0-1-12,0-2-0], [10:Edge,0-6-0]

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	0.68	Vert(LL)	-0.04	11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.07	11-12	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 119 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-7:2x4 SP 1650F

1.5E

BOT CHORD 2x6 SPF No.2

2x3 SPF No.2 *Except* 16-2,10-8:2x4 SP **WEBS**

No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

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

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

bracing, Except:

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

WEBS 1 Row at midpt 7-12

REACTIONS (size) 10=0-3-8, 12=0-3-8, 16=0-3-8

Max Horiz 16=25 (LC 12)

Max Uplift 10=-245 (LC 9), 12=-408 (LC 9),

16=-157 (LC 31)

10=858 (LC 26), 12=1835 (LC 1), Max Grav

16=599 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/23, 2-3=-196/86, 3-4=-591/221,

4-5=-571/244, 5-6=-521/259, 6-7=-10/241, 7-8=-1346/384, 8-9=0/23, 2-16=-242/165,

8-10=-776/325

BOT CHORD 15-16=-255/682, 14-15=-152/502,

12-14=-238/132, 11-12=-277/1200, 10-11=-177/425

WFBS 5-14=-417/99. 7-11=0/487. 3-16=-604/253.

8-11=-176/797, 4-15=-101/220, 5-15=-73/194, 3-15=-214/175 7-12=-1535/422, 6-12=-958/399

6-14=-229/822

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-0-0, Exterior(2E) 7-0-0 to 8-0-12, Interior (1) 8-0-12 to 19-8-12, Exterior(2E) 19-8-12 to 26-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 157 lb uplift at joint 16, 245 lb uplift at joint 10 and 408 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Left Hand Hip) or equivalent at 19-8-6 from the left end to connect truss(es) to back face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- 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, 2-4=-70, 4-5=-70, 5-7=-70, 7-8=-70, 8-9=-70, 10-16=-20

Concentrated Loads (lb)

Vert: 7=-116 (B), 11=-411 (B), 19=-116 (B), 20=-116 (B), 22=-48 (B), 23=-48 (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



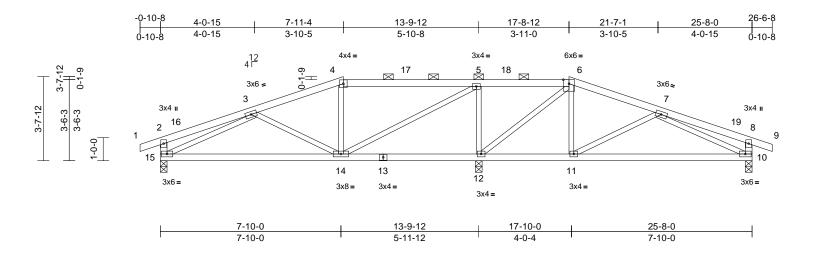
Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130
P240395-01	H2	Hip	1	1	Job Reference (optional

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 2213 251 ID:B3ewXNuUEezDK59ubZUTnzzP7OL-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCD6i7J4zJC?

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082272 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:50

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)	-0.09	10-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.19	10-11	>749	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 112 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 15-2,10-8:2x4 SP WEBS

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 (6-0-0 max.): 4-6.

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

bracing, Except:

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

REACTIONS (size) 10=0-3-8, 12=0-3-8, 15=0-3-8

Max Horiz 15=27 (LC 12)

Max Uplift 10=-139 (LC 9), 12=-258 (LC 9),

15=-160 (LC 8)

10=516 (LC 26), 12=1334 (LC 1), Max Grav

15=619 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-208/71, 3-4=-581/156,

4-5=-521/172, 5-6=-25/309, 6-7=-313/92,

7-8=-189/60, 8-9=0/23, 2-15=-260/173,

8-10=-246/165

BOT CHORD 14-15=-212/692, 12-14=-307/173, 11-12=0/245, 10-11=-130/506

4-14=-175/119, 6-12=-655/142,

6-11=-12/306 3-15=-608/204

7-10=-416/173, 5-12=-828/328,

5-14=-223/882, 3-14=-212/192,

7-11=-296/217

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-10-11, Interior (1) 3-10-11 to 7-11-4, Exterior(2R) 7-11-4 to 15-0-2, Interior (1) 15-0-2 to 17-8-12, Exterior(2R) 17-8-12 to 24-9-10, Interior (1) 24-9-10 to 26-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 258 lb uplift at joint 12, 160 lb uplift at joint 15 and 139 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



April 23,2024



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

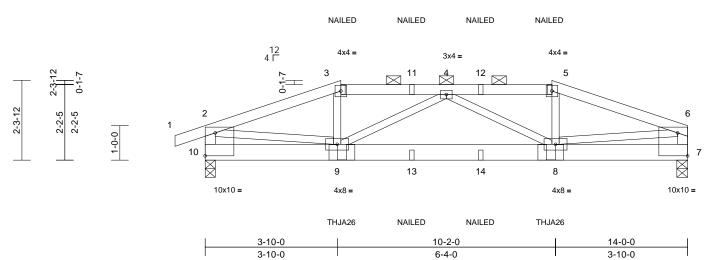


Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 **H5** Hip Girder Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082273 LEE'S SUMMIT. MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 22/13 ID:0D?BoRyFqUjM20c2ypbt1EzP7OF-RfC?PsB70Hq3NSgPqnL8w3uITXbGI(WrCDoi





Scale = 1:33.4

Plate Offsets (X, Y): [7:Edge,0-8-0], [10:Edge,0-8-0]

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	0.37	Vert(LL)	-0.06	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.12	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.46	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 10-2,7-6:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-3-9 oc purlins, except end verticals, and

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

BOT CHORD Rigid ceiling directly applied or 8-7-14 oc

bracing.

REACTIONS (size) 7=0-3-12, 10=0-3-8

Max Horiz 10=18 (LC 32)

Max Uplift 7=-250 (LC 9), 10=-299 (LC 8) Max Grav 7=950 (LC 1), 10=1027 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/23, 2-3=-1690/621, 3-4=-1551/620, 4-5=-1563/633, 5-6=-1697/630,

2-10=-962/467 6-7=-884/377

BOT CHORD 9-10=-186/296. 8-9=-724/1873. 7-8=-147/268

> 3-9=-14/301, 5-8=-9/291, 2-9=-387/1287 6-8=-406/1328, 4-9=-419/229, 4-8=-412/213

WEBS NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 299 lb uplift at joint 10 and 250 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.
- Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Right Hand Hip) or equivalent at 3-11-10 from the left end to connect truss(es) to back face of bottom chord.
- 10) Use Simpson Strong-Tie THJA26 (THJA26 on 1 ply, Left Hand Hip) or equivalent at 10-0-6 from the left end to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- 13) 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, 3-5=-70, 5-6=-70, 7-10=-20 Concentrated Loads (lb)

Vert: 3=-49 (B), 5=-49 (B), 9=-217 (B), 8=-217 (B), 11=-49 (B), 12=-49 (B), 13=-22 (B), 14=-22 (B)



April 23,2024



 Job
 Truss
 Truss Type
 Qty
 Ply
 Roof - WO Lot 130

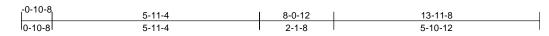
 P240395-01
 H6
 Hip
 1
 1
 Job Reference (optional)

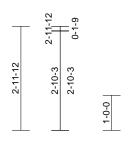
RELEASE FOR CONSTRUCTION

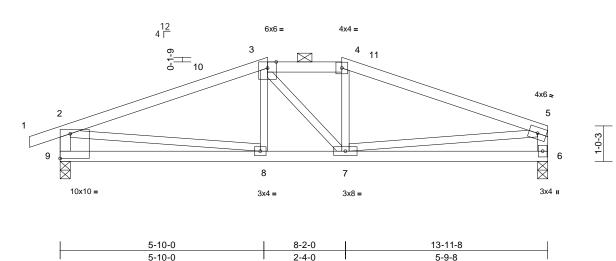
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
165082274
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 55 1 0 9 / 2 19 2 4 ID: FCIIjv6?y54yFk59G?iKAzP7OK-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW CDoi7J24C 5 1 0 9 / 2 19 2 4







Scale = 1	1:33
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Plate Offsets (X, Y): [9:Edge,0-8-8]

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	0.54	Vert(LL)	-0.03	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.07	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x3 SPF No.2 *Except* 9-2,6-5:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-10 oc purlins, except end verticals, and

2-0-0 oc purlins (6-0-0 max.): 3-4. Rigid ceiling directly applied or 9-10-3 oc

BOT CHORD Rigid ceiling dire bracing.

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

Max Horiz 9=21 (LC 12)

Max Uplift 6=-115 (LC 9), 9=-163 (LC 8) Max Grav 6=612 (LC 1), 9=689 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/23, 2-3=-925/430, 3-4=-820/476, 4-5=-925/439, 2-9=-629/413, 5-6=-552/330

BOT CHORD 8-9=-249/318, 7-8=-352/813, 6-7=-152/235

WEBS 3-8=0/113, 3-7=-112/126, 4-7=-84/108,

2-8=-125/499, 5-7=-204/590

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-11-4, Exterior(2E) 5-11-4 to 13-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 163 lb uplift at joint 9 and 115 lb uplift at joint 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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

SCOTT M.
SEVIER

NUMBER
PE-2001018807

April 23,2024





 Job
 Truss
 Truss Type
 Qty
 Ply
 Roof - WO Lot 130

 P240395-01
 H7
 Common
 1
 1
 Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
165082775

LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 220355/09/2924
ID:b5GC1nW1Y63c6KHxHYQC1QzP7Oq-RfC?PsB70Hq3NSgPqnL8w3uITX>GKWrC3677420C499/20924

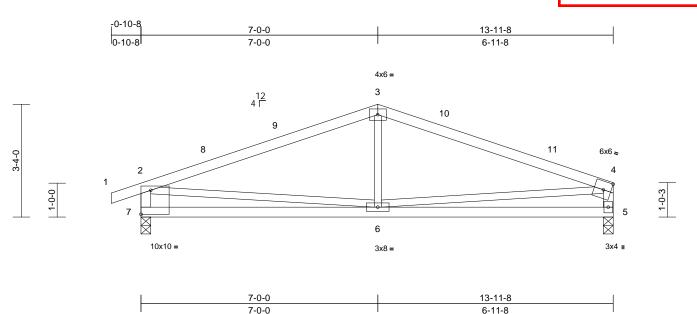


Plate Offsets (X, Y): [7:Edge,0-8-8]

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	0.79	Vert(LL)	-0.05	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.10	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 59 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2

WEBS 2x3 SPF No.2 *Except* 7-2,5-4:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 7=29 (LC 12)

Max Uplift 5=-107 (LC 9), 7=-155 (LC 8) Max Grav 5=612 (LC 1), 7=689 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum Tension

Tension

TOP CHORD 1-2=0/23, 2-3=-890/391, 3-4=-884/397,

2-7=-625/401, 4-5=-549/330 BOT CHORD 6-7=-316/420, 5-6=-188/298

WEBS 3-6=0/229, 2-6=-24/427, 4-6=-120/477

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 12-0-0, Interior (1) 12-0-0 to 13-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 155 lb uplift at joint 7 and 107 lb uplift at joint 5.

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

LOAD CASE(S) Standard



April 23,2024





Truss Type Ply Job Truss Qty Roof - WO Lot 130 P240395-01 J01 Jack-Open 2

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

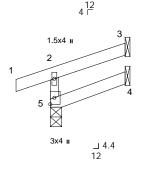
DEVELOPMENT SERVICES 165082276 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 22 13 252 ID:Ymda50VaV_rEdMWYIrpPSzywCMH-RfC?PsB70Hq3NSgPqnL8w3uITXb<mark>G</mark>KWrCDb/7J42JC

-0-10-8 1-10-15 0-10-8 1-10-15







Scale = 1:29.4

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	0.13	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	4-5	>999	180		
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							Weight: 8 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.

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

bracing.

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

5=0-3-8 Max Horiz 5=44 (LC 9)

Max Uplift 3=-32 (LC 12), 5=-56 (LC 8) 3=46 (LC 1), 4=34 (LC 3), 5=168 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-149/170, 1-2=0/22, 2-3=-31/16

BOT CHORD 4-5=-13/9

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 5 and 32 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

OF MISS SCOTT M. SEVIER PE-2001018807

April 23,2024



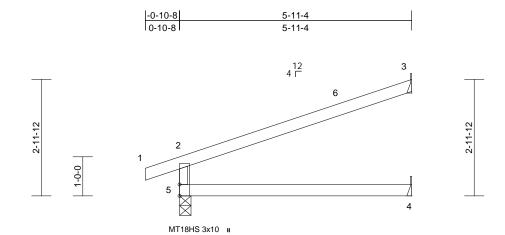


Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 J1 Jack-Open 3 Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082277 LEE'S SUMMIT. MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 2216 251 ID:7Smgy3vkmFDxaOJHj_WxsOzP7OJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoirJ4x



5-11-4 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	0.66	Vert(LL)	0.07	4-5	>989	240	MT18HS	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.12	4-5	>580	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.06	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 20 lb	FT = 20%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 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,

5=0-3-8 Max Horiz 5=90 (LC 8)

Max Uplift 3=-98 (LC 12), 5=-80 (LC 8)

3=186 (LC 1), 4=110 (LC 3), 5=334 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-287/317, 1-2=0/22, 2-3=-95/46

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 5 and 98 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.



April 23,2024



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



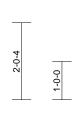
Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 J02 Jack-Open 3 Job Reference (optional

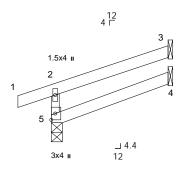
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082278 LEE'S SUMMIT. MISSOURI

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 15 52 ID:nVgzz5cDOI_yCkiHKETWKsywCM8-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDoiry14z-0?f

-0-10-8	3-0-12
0-10-8	3-0-12







Scale = 1:30.2

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	0.22	Vert(LL)	0.01	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(CT)	-0.01	4-5	>999	180		
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							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

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

5=0-3-8

Max Horiz 5=55 (LC 9)

Max Uplift 3=-52 (LC 12), 5=-60 (LC 8) Max Grav

3=88 (LC 1), 4=55 (LC 3), 5=210

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-183/208, 1-2=0/22, 2-3=-52/24

BOT CHORD 4-5=-17/15

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 5 and 52 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

OF MISSO SCOTT M. SEVIER PE-200101880

April 23,2024



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



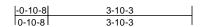
Truss Type Job Truss Qty Ply Roof - WO Lot 130 P240395-01 J2 Jack-Open 2

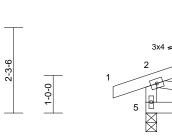
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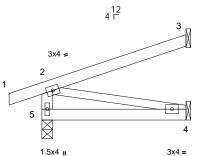
LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 22/13/252 ID:7viqpRVPnpxlUAiljrvzUDzP7Or-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWiCDoi7J42aC?

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 165082279









Scale = 1:30.8

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	0.24	Vert(LL)	-0.01	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

LUMBER

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

2x4 SP No.2 *Except* 4-2:2x3 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=61 (LC 9)

Max Uplift 3=-62 (LC 12), 5=-68 (LC 8) Max Grav

3=117 (LC 1), 4=74 (LC 3), 5=246

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-209/220, 1-2=0/23, 2-3=-64/29

BOT CHORD 4-5=-155/44 2-4=-45/158 WEBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 5 and 62 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



April 23,2024







Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 J03 Jack-Open Job Reference (optional

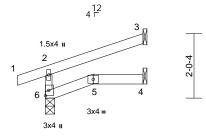
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082280 LEE'S SUMMIT. MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 2213 552 ID:4rbdRUickvsyYpkdEC5A6KywCM1-RfC?PsB70Hq3NSgPqnL8w3uITXbG_WrCDoi 34292 ff









Scale = 1:36.2

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	0.22	Vert(LL)	0.01	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	5	>999	180		
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							Weight: 12 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

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

6=0-3-8

Max Horiz 6=55 (LC 9)

Max Uplift 3=-52 (LC 12), 6=-60 (LC 8) Max Grav

3=88 (LC 1), 4=55 (LC 3), 6=210

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-6=-183/208, 1-2=0/22, 2-3=-52/24

BOT CHORD 5-6=-20/2, 4-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 6 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 6 and 52 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



April 23,2024



Truss Type Ply Job Truss Qty Roof - WO Lot 130 P240395-01 J3 Jack-Open 6

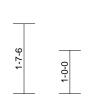
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

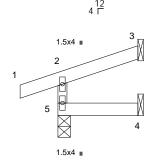
LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 2213 552 ID:7viqpRVPnpxIUAiijrvzUDzP7Or-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWi Doi7J4425

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 165082281

-0-10-8	1-10-3
0-10-8	1-10-3





1-10-3 Scale = 1:26.6

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	0.12	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	180		
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							Weight: 8 lb	FT = 20%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 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=42 (LC 9)

Max Uplift 3=-30 (LC 12), 5=-57 (LC 8) Max Grav

3=43 (LC 1), 4=33 (LC 3), 5=166

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-147/170, 1-2=0/22, 2-3=-29/15

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 5 and 30 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.



April 23,2024



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 Ply Job Truss Qty Roof - WO Lot 130 P240395-01 J04 Jack-Open

Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082282 LEE'S SUMMIT. MISSOURI

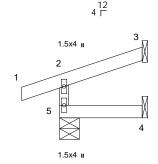
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 15-52 ID:NBWGwtn?52lztunz8AjpupywCLw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK WrCDoi75-22027

1-7-10

-0-10-8	1-10-15
0-10-8	1-10-15





1-10-15

Scale = 1:26.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	0.00	4-5	>999	180		
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							Weight: 8 lb	FT = 20%

LUMBER

LOAD CASE(S) Standard

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

5=0-5-8

Max Horiz 5=42 (LC 9)

Max Uplift 3=-31 (LC 12), 5=-57 (LC 8) 3=46 (LC 1), 4=34 (LC 3), 5=168 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-149/171, 1-2=0/22, 2-3=-31/16

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 57 lb uplift at joint 5 and 31 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.



April 23,2024



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 Ply Job Truss Qty Roof - WO Lot 130 P240395-01 J4 Jack-Open

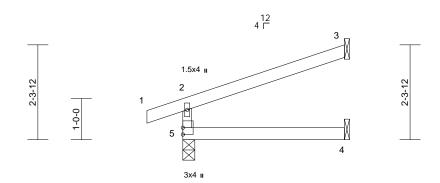
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082283 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 252 ID:7Smgy3vkmFDxaOJHj_WxsOzP7OJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zdC

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



Scale = 1:28.1

3-11-4

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	0.30	Vert(LL)	0.01	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.02	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 14 lb	FT = 20%

LUMBER

LOAD CASE(S) Standard

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 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=62 (LC 9)

Max Uplift 3=-66 (LC 12), 5=-67 (LC 8)

3=119 (LC 1), 4=72 (LC 3), 5=247 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-214/244, 1-2=0/22, 2-3=-68/30

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 5 and 66 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.



April 23,2024



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 Ply Job Truss Qty Roof - WO Lot 130 P240395-01 J05 Jack-Open Job Reference (optional

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

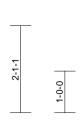
LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 ID:k9J9zbr8vbNF_ffwxjJ_bsywCLr-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWicDoi7J4

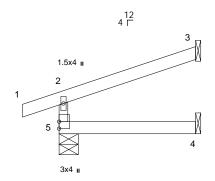
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

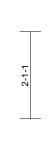
DEVELOPMENT SERVICES 165082284

-0-10-8 3-3-4









Scale = 1:27.6

3-3-4	ı

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	0.23	Vert(LL)	0.01	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	4-5	>999	180		
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							Weight: 12 lb	FT = 20%

LUMBER

LOAD CASE(S) Standard

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

BRACING

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

bracing.

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

5=0-5-8

Max Horiz 5=55 (LC 9)

Max Uplift 3=-55 (LC 12), 5=-63 (LC 8)

3=96 (LC 1), 4=59 (LC 3), 5=219 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-190/218, 1-2=0/22, 2-3=-56/25

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 5 and 55 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.



April 23,2024



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



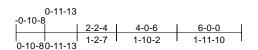
Truss Type Job Truss Qty Ply Roof - WO Lot 130 P240395-01 J06 Jack-Partial

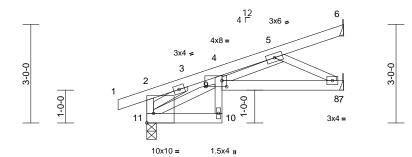
DEVELOPMENT SERVICES 165082285 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 22/13/25/20 ID:R4wx3?zQZferBBQrXqUK?zywCLh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7423C7





2-3-8	5-7-15	6-0-0
2-3-8	3-4-7	0-4-1

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

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	0.25	Vert(LL)	0.03	10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.04	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.02	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 10-4:2x3 SPF No.2 **BOT CHORD**

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 9-4-14 oc

bracing.

REACTIONS (size) 6= Mechanical, 7= Mechanical,

11=0-3-8 Max Horiz 11=91 (LC 8)

Max Uplift 6=-29 (LC 8), 7=-52 (LC 12),

11=-80 (LC 8)

Max Grav 6=53 (LC 1), 7=204 (LC 1), 11=337

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-11=-94/175, 1-2=0/22, 2-3=-8/68,

3-4=-453/440, 4-5=-523/550, 5-6=-31/12 **BOT CHORD** 10-11=-54/58, 9-10=0/42, 4-9=-50/125,

8-9=-394/343, 7-8=0/0

WEBS 3-11=-525/412, 9-11=-500/383,

5-9=-274/250, 5-8=-385/442

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-10-3, Interior (1) 3-10-3 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 11 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 11, 29 lb uplift at joint 6 and 52 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



April 23,2024



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

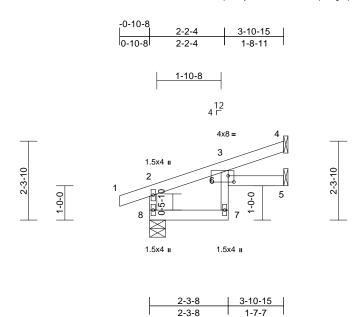


Truss Type Ply Job Truss Qty Roof - WO Lot 130 P240395-01 J07 Jack-Open 2 Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082286 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 22/13/252 ID:R4wx3?zQZferBBQrXqUK?zywCLh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoir642424



Scale = 1:33.6

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

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	0.17	Vert(LL)	0.02	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	7	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 15 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 7-3:2x3 SPF No.2

2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

8=0-5-8

Max Horiz 8=62 (LC 9) Max Uplift 4=-44 (LC 12), 5=-10 (LC 12),

8=-66 (LC 8)

Max Grav 4=105 (LC 1), 5=57 (LC 3), 8=246

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-8=-222/229, 1-2=0/22, 2-3=-106/42,

3-4=-45/29

BOT CHORD 7-8=-109/79, 6-7=-12/40, 3-6=-4/58, 5-6=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 8 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 8, 44 lb uplift at joint 4 and 10 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



April 23,2024



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 Ply Job Truss Qty Roof - WO Lot 130 P240395-01 J08 Jack-Partial Job Reference (optional

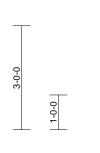
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082287 LEE'S SUMMIT. MISSOURI

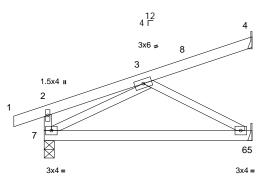
RELEASE FOR CONSTRUCTION

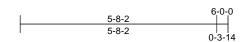
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 552 ID:n2jq6j1YNCG7HzIpJN4V11ywCLc-RfC?PsB70Hq3NSgPqnL8w3uITXbGK vrCDoi7JJ









Scale = 1:33.3

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	0.14	Vert(LL)	-0.07	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.14	6-7	>497	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 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) 4= Mechanical, 5= Mechanical, 7=0-3-8

Max Horiz 7=91 (LC 8)

Max Uplift 4=-47 (LC 8), 5=-35 (LC 12), 7=-80 (LC 8)

Max Grav 4=91 (LC 1), 5=165 (LC 1), 7=337

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-155/219, 1-2=0/22, 2-3=-27/88,

3-4=-46/22

BOT CHORD 6-7=-300/199, 5-6=0/0 WEBS 3-7=-233/118, 3-6=-228/342

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 7 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 80 lb uplift at joint 7, 47 lb uplift at joint 4 and 35 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

OF MISS SCOTT M. SEVIER NUMBER SONAL STONAL PE-2001018807

April 23,2024





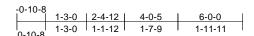
Truss Type Job Truss Qty Ply Roof - WO Lot 130 P240395-01 J09 Jack-Partial 5 Job Reference (optional

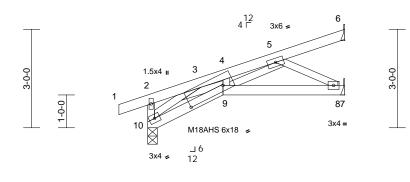
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082288 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22/13/25/53 ID:1mmE?o8CGzPrsLUXLmkcZwywCLT-RfC?PsB70Hq3NSgPqnL8w3uITXt GKWrCDef7342JC?





0-3-8			6-0-0
	2-3-8	5-7-15	
0-3-8	2-0-0	3-4-7	0-4-1

Scale = 1:35.1

Plate Offsets (X, Y): [9:1-2-0,0-2-0]

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	0.16	Vert(LL)	0.02	` ģ	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.03	8-9	>999	180	M18AHS	142/136
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 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 7-9-13 oc

bracing.

REACTIONS (size) 6= Mechanical, 7= Mechanical,

Max Horiz 10=89 (LC 8)

6=-31 (LC 8), 7=-51 (LC 12), Max Uplift

10=-79 (LC 8)

6=60 (LC 1), 7=197 (LC 1), 10=337 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-10=-162/224, 1-2=0/22, 2-3=-29/86,

3-4=-653/605, 4-5=-641/621, 5-6=-31/14

BOT CHORD 9-10=-577/449, 8-9=-386/334, 7-8=0/0 3-10=-490/405, 3-9=-180/250, 4-9=-14/51, WEBS

5-9=-365/346, 5-8=-374/432

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 3-10-3, Interior (1) 3-10-3 to 5-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- Bearings are assumed to be: , Joint 10 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 6) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 79 lb uplift at joint 10, 31 lb uplift at joint 6 and 51 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



April 23,2024



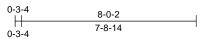


Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130	
P240395-01	LG01	Lay-In Gable	1	1	Job Reference (optional	

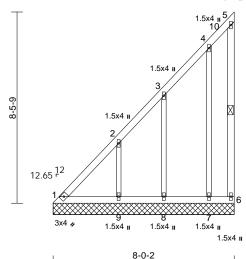
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

DEVELOPMENT SERVICES 165082289 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



1.5x4 II



Scale = 1:51

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 51 lb	FT = 20%

LUMBER

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

WEBS 1 Row at midpt 5-6

REACTIONS (size) 1=8-0-2, 6=8-0-2, 7=8-0-2,

8=8-0-2, 9=8-0-2

Max Horiz 1=338 (LC 9) Max Uplift 1=-102 (LC 10), 6=-120 (LC 11),

7=-104 (LC 12), 8=-132 (LC 12),

9=-181 (LC 12)

Max Grav 1=252 (LC 9), 6=101 (LC 8), 7=174 (LC 19), 8=193 (LC 19), 9=277 (LC

19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-584/585, 2-3=-412/414, 3-4=-290/305,

4-5=-215/225, 5-6=-151/130

BOT CHORD 1-9=-155/169, 8-9=-156/169, 7-8=-156/170,

6-7=-156/170

WEBS 2-9=-275/256, 3-8=-199/187, 4-7=-175/143

NOTES

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph: TCDL=6.0psf: BCDL=6.0psf: h=35ft: Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) 0-4-1 to 7-4-15, Exterior(2R) 7-4-15 to 7-10-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 5) 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 1, 120 lb uplift at joint 6, 181 lb uplift at joint 9, 132 lb uplift at joint 8 and 104 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



April 23,2024



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



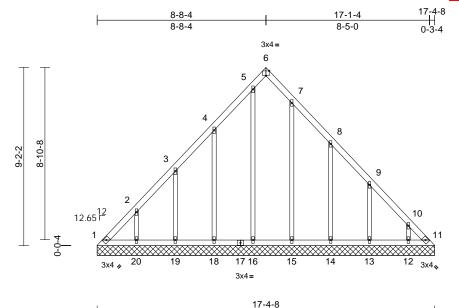
Job Truss Truss Type Qty Ply Roof - WO Lot 130 P240395-01 LG02 Lay-In Gable

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

DEVELOPMENT SERVICES 165082290 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 553 ID:oZkTzAZt3hUg2K76nVZLQizOB6x-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi WrCDoi N4230 A



Scale = 1:59.3

Plate Offsets (X, Y): [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	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.20	Horiz(TL)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 91 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP 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=17-4-8, 11=17-4-8, 12=17-4-8, 13=17-4-8, 14=17-4-8, 15=17-4-8, 16=17-4-8, 18=17-4-8, 19=17-4-8,

20=17-4-8

Max Horiz 1=-250 (LC 8)

Max Uplift 1=-104 (LC 10), 11=-104 (LC 11), 12=-118 (LC 13), 13=-136 (LC 13),

14=-155 (LC 13), 15=-59 (LC 13), 16=-14 (LC 9), 18=-160 (LC 12), 19=-132 (LC 12), 20=-141 (LC 12)

Max Grav

1=283 (LC 12), 11=290 (LC 13), 12=178 (LC 20), 13=210 (LC 20), 14=213 (LC 20), 15=177 (LC 20), 16=164 (LC 19), 18=214 (LC 19),

19=204 (LC 19), 20=213 (LC 19)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-409/285, 2-3=-280/179, 3-4=-152/108,

4-5=-117/91, 5-6=-70/57, 6-7=-91/76. 7-8=-94/35, 8-9=-166/109, 9-10=-300/217,

10-11=-407/303

BOT CHORD 1-20=-212/293, 19-20=-213/293

18-19=-213/293, 16-18=-213/293, 15-16=-213/293, 14-15=-213/293, 13-14=-213/293, 12-13=-213/293,

11-12=-212/292

WEBS

2-20=-188/158, 3-19=-184/157, 4-18=-213/183, 5-16=-125/38, 7-15=-136/83,

8-14=-206/179, 9-13=-189/161,

10-12=-159/135

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-1 to 5-4-1, Interior (1) 5-4-1 to 8-8-8, Exterior(2R) 8-8-8 to 13-8-8, Interior (1) 13-8-8 to 17-0-15 zone; cantilever left and right exposed: end vertical left and right exposed: C-C for members and forces & MWFRS for reactions shown; 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 1.5x4 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 1, 104 lb uplift at joint 11, 141 lb uplift at joint 20, 132 lb uplift at joint 19, 160 lb uplift at joint 18, 14 lb uplift at joint 16, 59 lb uplift at joint 15, 155 lb uplift at joint 14, 136 lb uplift at joint 13 and 118 lb uplift at joint 12
- 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



April 23,2024



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 Roof - WO Lot 130 P240395-01 LG03 Lay-In Gable

DEVELOPMENT SERVICES 165082291 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 22 13 ID:rFpm93ggcMC3y8jhGghZroywBwy-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi 34z36?

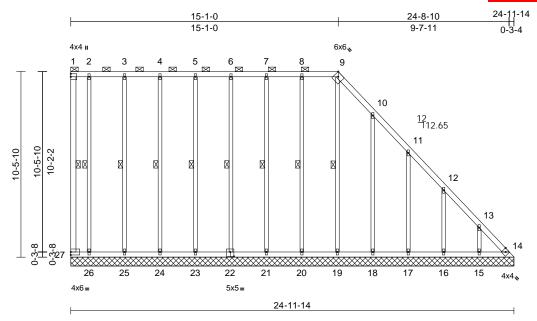


Plate Offsets (X, Y): [9:0-2-9, Edge], [22:0-2-8,0-3-0]

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	0.80	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horiz(TL)	0.01	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 175 lb	FT = 20%

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

BRACING TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-9. Rigid ceiling directly applied or 7-11-5 oc

bracing. WFBS 1 Row at midpt

1-27, 2-26, 3-25, 4-24, 5-23, 6-22, 7-21, 8-20,

9-19

REACTIONS (size) 14=24-11-14, 15=24-11-14, 16=24-11-14, 17=24-11-14,

> 18=24-11-14, 19=24-11-14, 20=24-11-14, 21=24-11-14, 22=24-11-14, 23=24-11-14, 24=24-11-14, 25=24-11-14, 26=24-11-14, 27=24-11-14

Max Horiz 27=-433 (LC 8)

Max Uplift 14=-181 (LC 11), 15=-138 (LC 13), 16=-136 (LC 13), 17=-138 (LC 13),

18=-139 (LC 13), 19=-130 (LC 8), 20=-51 (LC 8), 21=-42 (LC 9), 22=-40 (LC 8), 23=-41 (LC 8), 24=-48 (LC 9), 25=-66 (LC 8),

26=-97 (LC 9), 27=-65 (LC 10) Max Grav 14=342 (LC 8), 15=209 (LC 20),

16=206 (LC 20), 17=205 (LC 20), 18=216 (LC 20), 19=183 (LC 20), 20=189 (LC 1), 21=179 (LC 1), 22=180 (LC 1), 23=179 (LC 1), 24=179 (LC 1), 25=189 (LC 1),

26=168 (LC 21), 27=40 (LC 9) **FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD

BOT CHORD

1-27=-216/225, 1-2=-192/209, 2-3=-192/209, 3-4=-192/209, 4-5=-192/209, 5-6=-192/209, 6-7=-192/210, 7-8=-192/210, 8-9=-192/209, 9-10=-253/265, 10-11=-363/378, 11-12=-472/476, 12-13=-585/578,

13-14=-690/676 26-27=-481/499, 25-26=-481/499,

24-25=-481/499, 23-24=-481/499, 21-23=-481/499, 20-21=-481/499, 19-20=-481/499. 18-19=-480/498. 17-18=-480/498, 16-17=-479/498,

15-16=-479/498, 14-15=-479/498 2-26=-214/161, 3-25=-148/77, 4-24=-139/67, 5-23=-140/63, 6-22=-140/64, 7-21=-139/66,

8-20=-149/74, 9-19=-271/206, 10-18=-194/163, 11-17=-183/162 12-16=-182/161, 13-15=-176/155

NOTES

WEBS

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-0-6, Interior (1) 5-0-6 to 15-1-0, Exterior(2R) 15-1-0 to 20-1-0, Interior (1) 20-1-0 to 24-8-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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 1.5x4 MT20 unless otherwise indicated.
- 5) 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.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 65 lb uplift at joint 27, 181 lb uplift at joint 14, 97 lb uplift at joint 26, 66 lb uplift at joint 25, 48 lb uplift at joint 24, 41 lb uplift at joint 23, 40 lb uplift at joint 22, 42 lb uplift at joint 21, 51 lb uplift at joint 20, 130 lb uplift at joint 19, 139 lb uplift at joint 18, 138 lb uplift at joint 17, 136 lb uplift at joint 16 and 138 lb uplift at joint 15.
- 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
- 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



April 23,2024



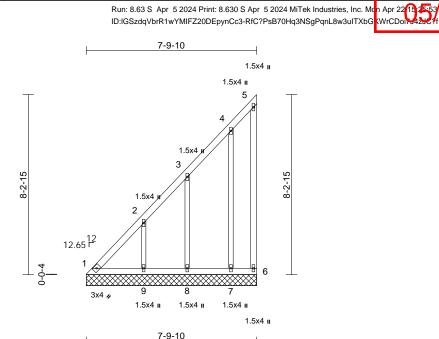


Job	Truss	Truss Type	Qty	Ply	Roof - WO Lot 130	Г
P240395-01	LG05	Lay-In Gable	1	1	Job Reference (optional)	L

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

DEVELOPMENT SERVICES 165082292 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale =	1:52.8
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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	0.82	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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	0.19	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 50 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 2x4 SP 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=7-9-10, 6=7-9-10, 7=7-9-10,

8=7-9-10, 9=7-9-10 Max Horiz 1=329 (LC 9)

Max Uplift 1=-105 (LC 10), 6=-117 (LC 11),

7=-106 (LC 12), 8=-137 (LC 12),

9=-167 (LC 12)

Max Grav 1=248 (LC 9), 6=100 (LC 8), 7=174

(LC 19), 8=201 (LC 19), 9=255 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-576/575, 2-3=-417/420, 3-4=-290/304, 4-5=-208/213, 5-6=-153/131

BOT CHORD 1-9=-152/165, 8-9=-152/165, 7-8=-152/165,

6-7=-152/165 WEBS

2-9=-254/237, 3-8=-206/194, 4-7=-176/150

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph: TCDL=6.0psf: BCDL=6.0psf: h=35ft: Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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 1.5x4 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 1, 117 lb uplift at joint 6, 167 lb uplift at joint 9, 137 Ib uplift at joint 8 and 106 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



April 23,2024



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

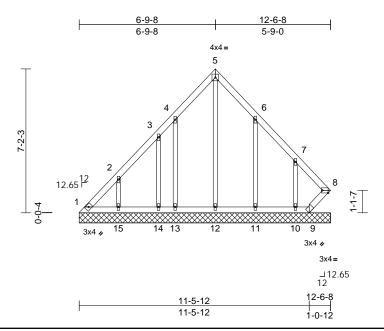


Job Truss Truss Type Qty Ply Roof - WO Lot 130 P240395-01 LG06 Lay-In Gable Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082293 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 2213 253 ID:cZY52oAUfU0hEV9OSZzb7_zO7fN-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoFd42JC?



Scale = 1:57.5

Plate Offsets (X, Y): [8:Edge,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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size)

1=12-6-8, 8=12-6-8, 9=12-6-8, 10=12-6-8, 11=12-6-8, 12=12-6-8, 13=12-6-8, 14=12-6-8, 15=12-6-8

Max Horiz 1=190 (LC 9)

Max Uplift 1=-67 (LC 10), 8=-115 (LC 11),

9=-167 (LC 13), 10=-135 (LC 13), 11=-140 (LC 13), 13=-96 (LC 12), 14=-93 (LC 12), 15=-143 (LC 12)

Max Grav

1=173 (LC 12), 8=285 (LC 13), 9=92 (LC 11), 10=188 (LC 20), 11=218 (LC 20), 12=147 (LC 22), 13=154 (LC 19), 14=135 (LC 19),

15=217 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-257/165, 2-3=-149/101, 3-4=-104/74,

4-5=-133/121, 5-6=-137/120, 6-7=-114/55,

7-8=-179/114

BOT CHORD 1-15=-93/148. 14-15=-93/148.

13-14=-93/148, 12-13=-94/148, 11-12=-94/148, 10-11=-93/148, 9-10=-93/148, 8-9=-152/232

WFBS 2-15=-199/162, 3-14=-136/111,

4-13=-133/112, 5-12=-105/61

6-11=-198/164, 7-10=-187/154

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-1 to 5-4-1, Interior (1) 5-4-1 to 6-9-12, Exterior(2R) 6-9-12 to 11-9-12, Interior (1) 11-9-12 to 12-4-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 1.5x4 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 1, 115 lb uplift at joint 8, 167 lb uplift at joint 9, 143 lb uplift at joint 15, 93 lb uplift at joint 14, 96 lb uplift at joint 13, 140 lb uplift at joint 11 and 135 lb uplift at joint 10.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at ioint(s) 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



April 23,2024



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



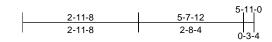
Truss Type Job Truss Qty Ply Roof - WO Lot 130 P240395-01 LG07 Lay-In Gable Job Reference (optional

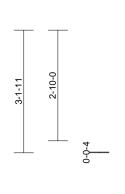
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082294 LEE'S SUMMIT. MISSOURI

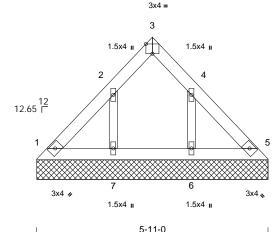
RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22 13 2553 ID:h3Q0btMrwUjspd7?SJDeA8zOBem-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7423C7







Scale = 1:29.5

Plate Offsets (X, Y): [3: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	0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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	0.03	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-8 oc purlins.

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

bracing.

REACTIONS (size) 1=5-11-0, 5=5-11-0, 6=5-11-0,

Max Horiz 1=79 (LC 9)

Max Uplift 6=-105 (LC 13), 7=-106 (LC 12) 1=90 (LC 21), 5=89 (LC 22), 6=180 Max Grav

(LC 20), 7=181 (LC 19) (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-107/89, 2-3=-63/16, 3-4=-63/16,

4-5=-106/89 **BOT CHORD** 1-7=-82/102, 6-7=-82/102, 5-6=-82/102

WEBS 2-7=-173/131, 4-6=-173/131

NOTES

FORCES

- 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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 0-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 7 and 105 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



April 23,2024



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 Qty Job Truss Truss Type Roof - WO Lot 130 P240395-01 V01 Valley Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082295 LEE'S SUMMIT. MISSOURI

GRIP

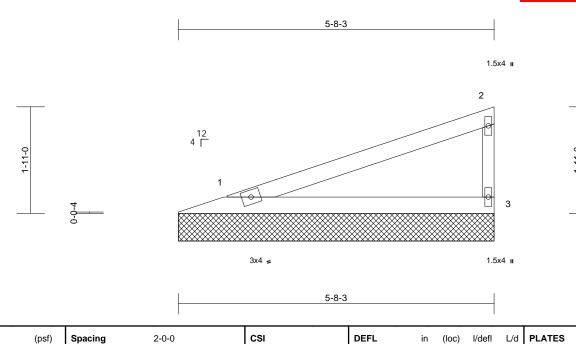
244/190

FT = 20%

RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 2213 253 ID:MNx_CRA05NKCG2N9fzJrK3ywCMj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoirJ4



BCDL LUMBER

Scale = 1:20.7 Loading

TCLL (roof)

TCDI

BCLL

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-15 oc purlins, except end verticals. BOT CHORD

25.0

10.0

0.0

10.0

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.15

1 15

YES

IRC2018/TPI2014

Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=75 (LC 9)

Max Uplift 1=-41 (LC 8), 3=-52 (LC 12) Max Grav 1=211 (LC 1), 3=211 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-105/64, 2-3=-164/211

BOT CHORD 1-3=-33/35

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1 and 52 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.

0.50

0.27

0.00

Vert(LL)

Vert(TL)

Horiz(TL)

n/a

n/a

0.00

n/a 999

n/a

n/a n/a

3

999

MT20

Weight: 17 lb

LOAD CASE(S) Standard

TC

BC

WB

Matrix-P



April 23,2024



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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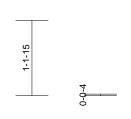
Ply Qty Job Truss Truss Type Roof - WO Lot 130 P240395-01 V02 Valley Job Reference (optional

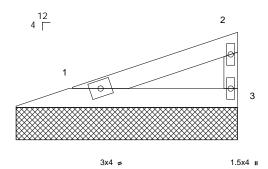
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 2216 253 ID:MNx_CRA05NKCG2N9fzJrK3ywCMj-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDbirJ4x

3-5-1

1.5x4 II





RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 165082296

3-5-1

Scale = 1:17.8

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.07	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 = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-13 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=39 (LC 9)

Max Uplift 1=-21 (LC 8), 3=-27 (LC 12) Max Grav 1=110 (LC 1), 3=110 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-56/34, 2-3=-85/112

BOT CHORD 1-3=-17/18

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 27 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



April 23,2024





Ply Truss Type Job Truss Qty Roof - WO Lot 130 P240395-01 V03 Valley 5

DEVELOPMENT SERVICES 165082297 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22/13/25/4

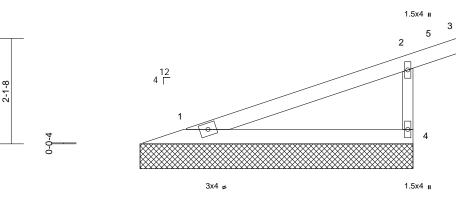
KWrCDoi7J4

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

5-5-4	6-3-12
5-5-4	0-10-8

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5-5-4

Scale = 1:23.2

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	0.40	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=86 (LC 9)

Max Uplift 1=-31 (LC 8), 4=-81 (LC 12) Max Grav 1=193 (LC 1), 4=277 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-131/52, 2-3=-22/0, 2-4=-232/301

TOP CHORD BOT CHORD 1-4=-31/33

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to 5-11-5, Interior (1) 5-11-5 to 6-4-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 1 and 81 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



April 23,2024







Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 V04 Valley Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082298 LEE'S SUMMIT. MISSOURI

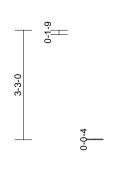
3-1-6

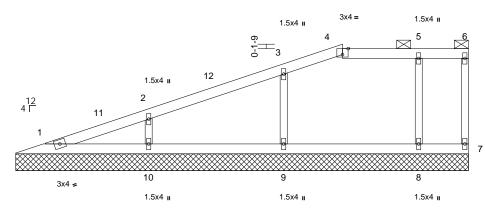
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 2213 254 ID:LiUbMH8ErUBoPTna0q0lgzzO7kZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGr WrCDoi7s4z3o2



1.5x4 II





1.5x4 II

13-4-15

Scale = 1:34.1

Plate Offsets (X, Y): [4:0-2-0,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	0.24	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999	1	
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	7	n/a	n/a	1	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 46 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP 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, and 2-0-0 oc purlins (6-0-0 max.): 4-6.

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

bracing.

REACTIONS (size) 1=13-4-15, 7=13-4-15, 8=13-4-15,

9=13-4-15, 10=13-4-15 Max Horiz 1=134 (LC 9)

Max Uplift 7=-6 (LC 1), 8=-66 (LC 9), 9=-90

(LC 8), 10=-100 (LC 12)

Max Grav 1=102 (LC 1), 7=2 (LC 11), 8=299 (LC 1), 9=377 (LC 1), 10=346 (LC

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-213/110, 2-3=-130/85, 3-4=-74/76,

4-5=-60/68, 5-6=-59/64, 6-7=-17/20 **BOT CHORD** 1-10=-58/62, 9-10=-58/62, 8-9=-58/62,

7-8=-58/62

2-10=-264/249, 3-9=-295/271, 5-8=-234/216

WEBS 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to 5-11-5, Interior (1) 5-11-5 to 9-8-15, Exterior(2E) 9-8-15 to 13-4-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 1.5x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- 6)
- Gable studs spaced at 4-0-0 oc. 7)
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing
- capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 6 lb uplift at joint 7, 100 lb uplift at joint 10, 90 lb uplift at joint 9 and 66 lb uplift at joint 8.
- 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.

LOAD CASE(S) Standard



April 23,2024



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	Roof - WO Lot 130	
P240395-01	V05	Valley	1	1	Job Reference (optional	

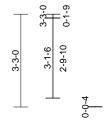
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

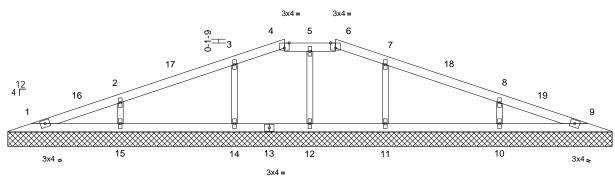
Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 2213 254 ID:STIxfXW3nizY043Lm8YnuIzO7k5-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\vcDoi7\42J64

DEVELOPMENT SERVICES 165082299 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW







21-1-13

Scale = 1:40.3

Plate Offsets (X, Y): [4:0-2-0,Edge], [6:0-2-0,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	0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
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	0.05	Horiz(TL)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 68 lb	FT = 20%

LUMBER

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

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

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

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=21-1-13, 9=21-1-13, 10=21-1-13,

11=21-1-13, 12=21-1-13, 14=21-1-13, 15=21-1-13

Max Horiz 1=-54 (LC 13)

Max Uplift 1=-9 (LC 9), 9=-12 (LC 9), 10=-100

(LC 13), 11=-76 (LC 9), 12=-9 (LC 8), 14=-78 (LC 8), 15=-100 (LC 12)

1=105 (LC 1), 9=105 (LC 1),

10=363 (LC 1), 11=316 (LC 26),

12=182 (LC 1), 14=316 (LC 25),

15=363 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

Max Grav

TOP CHORD 1-2=-67/38, 2-3=-65/66, 3-4=-50/107,

4-5=-41/103, 5-6=-41/103, 6-7=-50/105,

7-8=-65/64, 8-9=-49/26

BOT CHORD 1-15=-10/48, 14-15=-10/48, 12-14=-10/48,

11-12=-10/48, 10-11=-10/48, 9-10=-10/48

WFBS 2-15=-278/204. 3-14=-246/166. 8-10=-278/204, 7-11=-246/166, 5-12=-140/44

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to 5-11-5, Interior (1) 5-11-5 to 9-8-15, Exterior(2E) 9-8-15 to 11-6-7, Exterior(2R) 11-6-7 to 18-7-4, Interior (1) 18-7-4 to 20-4-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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 1.5x4 MT20 unless otherwise indicated.
- 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1, 12 lb uplift at joint 9, 100 lb uplift at joint 15, 78 lb uplift at joint 14, 100 lb uplift at joint 10, 76 lb uplift at joint 11 and 9 lb uplift at joint 12.
- 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.

LOAD CASE(S) Standard



April 23,2024



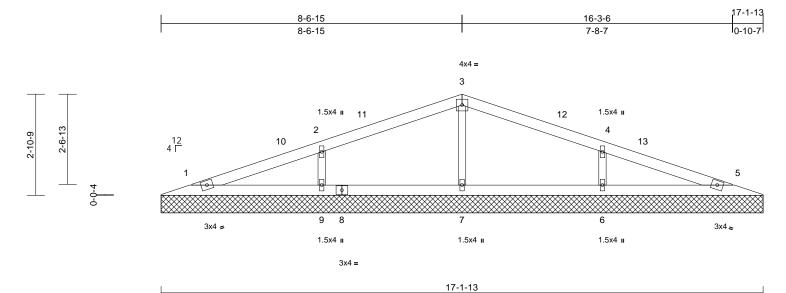
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Job Truss Truss Type Qty Roof - WO Lot 130 P240395-01 V06 Valley Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082300 LEE'S SUMMIT. MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 2213 254 ID:N3?AT?c89_6NW5W0tcin6izO8JP-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoi 1423c1



Scale = 1:32.8

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	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 53 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 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=17-1-13, 5=17-1-13, 6=17-1-13,

7=17-1-13, 9=17-1-13 Max Horiz 1=-49 (LC 13)

Max Uplift 1=-18 (LC 8), 5=-23 (LC 9), 6=-117

(LC 13), 7=-10 (LC 8), 9=-117 (LC

12)

Max Grav 1=132 (LC 1), 5=132 (LC 1), 6=413

(LC 26), 7=309 (LC 1), 9=413 (LC

25)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-2=-59/50, 2-3=-68/96, 3-4=-68/99,

4-5=-43/38

BOT CHORD 1-9=-5/34, 7-9=-5/34, 6-7=-5/34, 5-6=-5/34

WEBS

3-7=-235/90, 2-9=-320/235, 4-6=-320/235

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to 5-11-5, Interior (1) 5-11-5 to 8-7-11, Exterior(2R) 8-7-11 to 13-7-11, Interior (1) 13-7-11 to 16-4-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 1, 23 lb uplift at joint 5, 10 lb uplift at joint 7, 117 lb uplift at joint 9 and 117 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



April 23,2024



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 Roof - WO Lot 130 P240395-01 V07 Valley

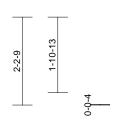
Job Reference (optional

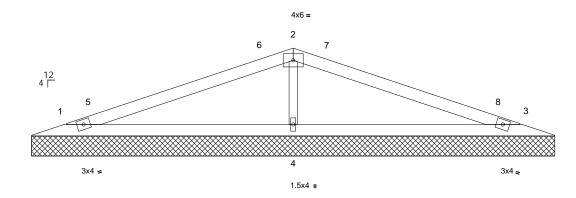
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082301 LEE'S SUMMIT. MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mcn Apr 2213 254 ID:N3?AT?c89_6NW5W0tcin6izO8JP-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoi 1423c1







13-1-13

Scale = 1:29

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	0.55	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 39 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 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=13-1-13, 3=13-1-13, 4=13-1-13

1=36 (LC 12) Max Horiz

Max Uplift 1=-56 (LC 8), 3=-60 (LC 13), 4=-68

(LC 8)

1=230 (LC 25), 3=230 (LC 26), Max Grav

4=581 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-92/69, 2-3=-92/68 **BOT CHORD** 1-4=-1/36, 3-4=-1/36 2-4=-409/316 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-11-5 to 5-11-5, Interior (1) 5-11-5 to 6-7-11, Exterior(2R) 6-7-11 to 11-7-11, Interior (1) 11-7-11 to 12-4-1 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 1, 60 lb uplift at joint 3 and 68 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



April 23,2024



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 Roof - WO Lot 130 P240395-01 **V08** Valley Job Reference (optional

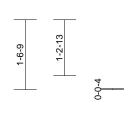
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082302 LEE'S SUMMIT. MISSOURI

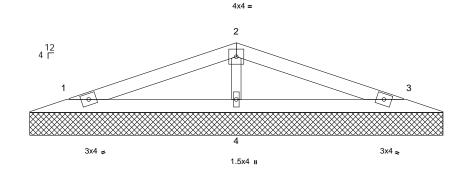
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Man Apr 22/13/25/54 ID:N3?AT?c89_6NW5WOtcin6izO8JP-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDoix-42)e-ff

RELEASE FOR CONSTRUCTION







9-1-13

Scal	е	=	1	:25	.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	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	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	IRC2018/TPI2014	Matrix-S							Weight: 26 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** 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=9-1-13, 3=9-1-13, 4=9-1-13

1=-24 (LC 13) Max Horiz

Max Uplift 1=-36 (LC 8), 3=-39 (LC 13), 4=-44

(LC 8)

1=149 (LC 25), 3=149 (LC 26), Max Grav

4=377 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-60/50, 2-3=-60/52 **BOT CHORD** 1-4=-1/23, 3-4=-1/23 2-4=-265/261 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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; 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.
- 5) 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 1, 39 lb uplift at joint 3 and 44 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



April 23,2024



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 Truss Type Job Truss Qty Roof - WO Lot 130 P240395-01 V09 Valley Job Reference (optional

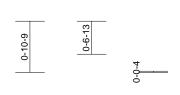
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 165082303 LEE'S SUMMIT. MISSOURI

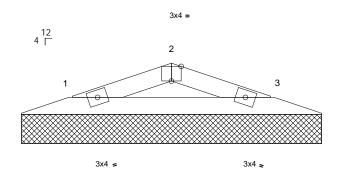
RELEASE FOR CONSTRUCTION

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Apr 5 2024 Print: 8.630 S Apr 5 2024 MiTek Industries, Inc. Mon Apr 22/13/25/4 ID:N3?AT?c89_6NW5WOtcin6izO8JP-RfC?PsB70Hq3NSgPqnL8w3ulTXbG_WrCDoi 222216

1		
2-6-15	4-3-6	5-1-13
2-6-15	1-8-7	0-10-7





- 1	E 4 40
	5-1-13

Scale = 1:19.8

Plate Offsets (X, Y): [2:0-2-0,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	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999	1	
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a	1	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-5 oc purlins.

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

bracing.

REACTIONS (size) 1=5-1-13, 3=5-1-13

Max Horiz 1=-11 (LC 13)

Max Uplift 1=-27 (LC 8), 3=-27 (LC 9) Max Grav 1=153 (LC 1), 3=153 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-199/241, 2-3=-199/245

BOT CHORD 1-3=-201/174

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 and 27 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



April 23,2024



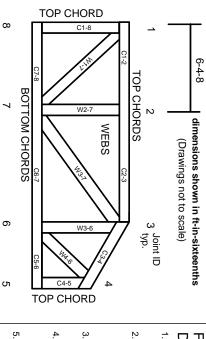
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



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

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:

PLATE SIZE

* Plate location details available in MiTek

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

software or upon request

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

Design General Notes

LATERAL BRACING LOCATION

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

The first dimension is the plate

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

by text in the bracing section of the output. Use T or I bracing

Indicated by symbol shown and/or

if indicated.

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

BEARING

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ANSI/TPI1: DSB-22:

Design Standard for Bracing.

Industry Standards:

National Design Specification for Metal

reaction section indicates joint number/letter where bearings occur Min size shown is for crushing only.

Indicates location where bearings (supports) occur. Icons vary but

Plate Connected Wood Truss Construction.

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

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

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.
- 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.
- 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.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 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 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.