

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

04/02/2024

RE: P240212-01 - Roof - HR Lot 204

MiTek, Inc.

Site Information:

16023 Swingley Ridge Rd. Project Customer: Clayton Properties Project Name: Wildflower - Transitional 3Ca 14.434.1200

Lot/Block: 204 Subdivision: Hawthorne Ridge

Model:

Address: 1605 SW Buckthorn Dr

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

Floor Load: N/A psf

Exposure Category: C

Mean Roof Height (feet): 35

Roof Load: 45.0 psf

No. 1234567891011213	Seal# 164148479 164148481 164148481 164148483 164148484 164148485 164148487 164148488 164148489	Truss Name V05 V04 V03 V02 V01 LG01 J02 J01 CJ01 C09 C08 C07 C06	Date 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24
13 14 15 16 17 18 19 20 21 22 23	164148491 164148492 164148493 164148494 164148495 164148497 164148498 164148499 164148500	C05 C04 C03 C02 C01 B01 A04 A03 A02 A01	3/12/24 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24 3/12/24

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.



March 12,2024

Truss Type Job Truss Qty Ply Roof - HR Lot 204 P240212-01 V05 Valley

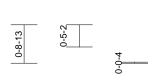
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

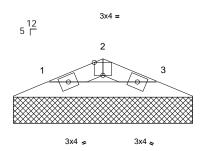
LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 10 83/1:34 ID:6ru7F9CpA2ag5pbhdMPJqdzkXVF-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl(WrCDoil)4zJC7

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 164148478

1-8-10	2-8-14	3-5-3	
1-8-10	1-0-4	0-8-6	





3-5-3

Scale = 1:22.1

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	0.03	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	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 8 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 3-6-6 oc purlins.

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

bracing.

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

Max Horiz 1=-8 (LC 13)

Max Uplift 1=-14 (LC 12), 3=-14 (LC 13) Max Grav 1=91 (LC 1), 3=91 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-101/94, 2-3=-101/98

BOT CHORD 1-3=-72/83

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. 5)
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1 and 14 lb uplift at joint 3.
- 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



March 12,2024



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 - HR Lot 204 P240212-01 V04 Valley

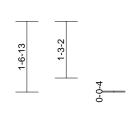
DEVELOPMENT SERVICES 164148479 LEE'S SUMMIT. MISSOURI Job Reference (optional

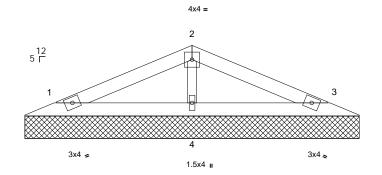
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 18:14 ID:6ru7F9CpA2ag5pbhdMPJqdzkXVF-RfC?PsB70Hq3NSgPqnL8w3uITXbGI(WrCDoi)

3-8-10	6-8-14	7-5-3
3-8-10	3-0-4	0-8-6





7-5-3

Scale = 1:25.6

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	0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 22 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=7-5-3, 3=7-5-3, 4=7-5-3

Max Horiz 1=-24 (LC 13)

Max Uplift 1=-36 (LC 12), 3=-40 (LC 13), 4=-13 (LC 12)

1=137 (LC 1), 3=137 (LC 1), 4=269 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-55/43, 2-3=-55/48 **BOT CHORD** 1-4=-1/24, 3-4=-1/24

2-4=-193/164 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 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, 40 lb uplift at joint 3 and 13 lb uplift at joint 4.
- 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



March 12,2024



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Ply Job Truss Truss Type Qty Roof - HR Lot 204 P240212-01 V03 Valley

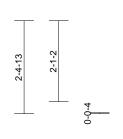
Job Reference (optional

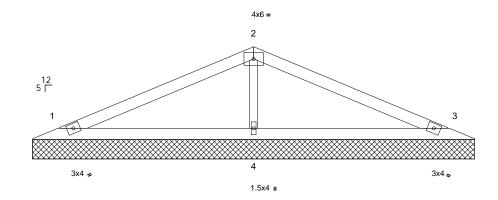
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148480 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 13 ID:6ru7F9CpA2ag5pbhdMPJqdzkXVF-RfC?PsB70Hq3NSgPqnL8w3uITXbGICWrCDoi







11-5-3

Scale = 1:29.8

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	0.42	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.25	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.07	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 35 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=11-5-3, 3=11-5-3, 4=11-5-3

1=-40 (LC 13) Max Horiz

1=-49 (LC 12), 3=-56 (LC 13), Max Uplift

4=-43 (LC 12)

1=207 (LC 25), 3=207 (LC 26), Max Grav

4=496 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-106/64, 2-3=-106/70

BOT CHORD 1-4=-3/43, 3-4=-3/43

2-4=-345/234 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) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 1, 56 lb uplift at joint 3 and 43 lb uplift at joint 4.
- 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



March 12,2024



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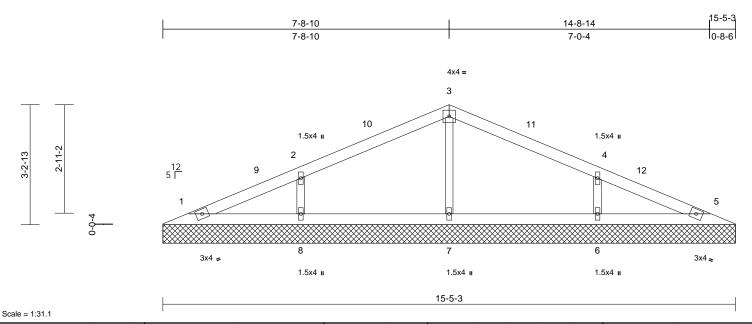
Ply Job Truss Truss Type Qty Roof - HR Lot 204 P240212-01 V02 Valley

Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148481 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 13 ID:6ru7F9CpA2ag5pbhdMPJqdzkXVF-RfC?PsB70Hq3NSgPqnL8w3uITXbG<mark>I</mark>(WrCDoi



Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	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	0.06	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 49 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD **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=15-5-3, 5=15-5-3, 6=15-5-3,

7=15-5-3, 8=15-5-3 Max Horiz 1=55 (LC 16)

Max Uplift 1=-12 (LC 13), 5=-10 (LC 13),

6=-119 (LC 13), 8=-120 (LC 12)

1=106 (LC 1), 5=106 (LC 1), 6=375 (LC 26), 7=315 (LC 1), 8=375 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-71/46, 2-3=-87/104, 3-4=-87/98,

4-5=-53/35

BOT CHORD 1-8=-4/43, 7-8=-4/43, 6-7=-4/43, 5-6=-4/43 WEBS 3-7=-235/88, 2-8=-295/222, 4-6=-295/222

NOTES

- Unbalanced roof live loads have been considered for 1) this design
- Wind: ASCF 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) 0-9-1 to 5-9-1, Interior (1) 5-9-1 to 7-9-3, Exterior(2R) 7-9-3 to 12-9-3, Interior (1) 12-9-3 to 14-9-6 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 12 lb uplift at joint 1, 10 lb uplift at joint 5, 120 lb uplift at joint 8 and 119 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 12,2024



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Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204
P240212-01	V01	Valley	1	1	Job Reference (optional)

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 18:13:35 ID:6ru7F9CpA2ag5pbhdMPJqdzkXVF-RfC?PsB70Hq3NSgPqnL8w3uITXbGI(WrCDoi

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148482

9-8-10 18-8-14 9-8-10 9-0-4 4x4 = 3 1.5x4 II 1.5x4 _{II} 2 10 11 5 9 8 6 3x4 = 3x4 s 1.5x4 II 3x4 = 1.5x4 II 1.5x4 II

4-0-13

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 64 lb	FT = 20%

19-5-3

LUMBER

2x4 SP No.2 TOP CHORD **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=19-5-3, 5=19-5-3, 6=19-5-3,

7=19-5-3, 9=19-5-3 Max Horiz 1=-71 (LC 13)

Max Uplift 1=-19 (LC 12), 5=-31 (LC 13),

6=-154 (LC 13), 9=-154 (LC 12) 1=189 (LC 1), 5=189 (LC 1), 6=500

(LC 26), 7=250 (LC 1), 9=500 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-88/79, 2-3=-90/118, 3-4=-90/114, 4-5=-66/64

BOT CHORD 1-9=-11/56, 7-9=-11/56, 6-7=-11/56, 5-6=-11/56

WEBS 3-7=-195/30, 2-9=-381/231, 4-6=-381/231

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) 0-9-1 to 5-9-3. Interior (1) 5-9-3 to 9-9-3, Exterior(2R) 9-9-3 to 14-9-3, Interior (1) 14-9-3 to 18-9-6 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1, 31 lb uplift at joint 5, 154 lb uplift at joint 9 and 154 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 12,2024



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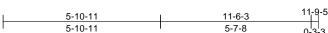


Job Truss Truss Type Qty Ply Roof - HR Lot 204 P240212-01 LG01 Lay-In Gable

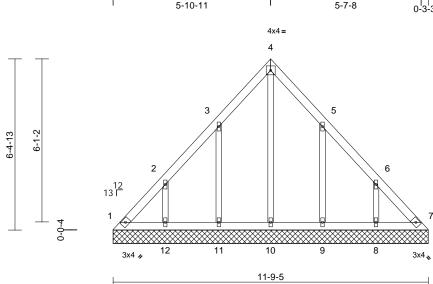
DEVELOPMENT SERVICES 164148483 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 18:43

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Scale = 1:43.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	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	0.09	Horiz(TL)	0.00	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 **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=11-9-5, 7=11-9-5, 8=11-9-5,

9=11-9-5, 10=11-9-5, 11=11-9-5, 12=11-9-5

Max Horiz 1=-173 (LC 8)

Max Uplift 1=-58 (LC 10), 7=-33 (LC 11),

8=-145 (LC 13), 9=-142 (LC 13), 11=-143 (LC 12), 12=-144 (LC 12)

Max Grav 1=148 (LC 21), 7=136 (LC 22),

8=210 (LC 20), 9=214 (LC 20),

10=141 (LC 22), 11=216 (LC 19),

12=210 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

1-2=-218/139, 2-3=-137/89, 3-4=-130/119, TOP CHORD 4-5=-130/114, 5-6=-111/55, 6-7=-196/135

BOT CHORD 1-12=-108/161, 11-12=-109/161,

10-11=-109/161, 9-10=-109/161,

8-9=-109/161, 7-8=-108/161

2-12=-199/162, 3-11=-201/168,

4-10=-102/62, 5-9=-201/167, 6-8=-199/163

WEBS NOTES

Unbalanced roof live loads have been considered for 1) 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) 0-4-0 to 5-4-0, Interior (1) 5-4-0 to 5-10-14, Exterior(2R) 5-10-14 to 10-10-14, Interior (1) 10-10-14 to 11-5-13 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) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 58 lb uplift at joint 1, 33 lb uplift at joint 7, 144 lb uplift at joint 12, 143 lb uplift at joint 11, 142 lb uplift at joint 9 and 145 lb uplift at
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 12,2024



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 - HR Lot 204 P240212-01 J02 Jack-Open

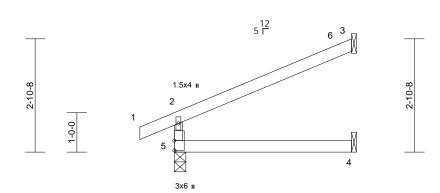
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

DEVELOPMENT SERVICES 164148484 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 1 3 4 3

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

ID:TY9bk33I?M3NfzhOwrBVL5zkXVR-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl(WrCDoi

-0-10-8	4-6-0
0-10-8	4-6-0



4-6-0

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	0.36	Vert(LL)	0.02	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 16 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) 3= Mechanical, 4= Mechanical,

5=0-3-8

Max Horiz 5=83 (LC 12)

Max Uplift 3=-82 (LC 12), 5=-39 (LC 12) Max Grav

3=138 (LC 1), 4=83 (LC 3), 5=271

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-234/193, 1-2=0/26, 2-3=-80/45

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 4-5-4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 5 and 82 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



March 12,2024







Truss Type Job Truss Qty Ply Roof - HR Lot 204 P240212-01 J01 Jack-Open

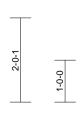
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

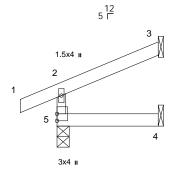
DEVELOPMENT SERVICES 164148485 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 10 874: 38 ID:2zUS610PiRhpoVypFidojTzkXVU-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7342JCff

-0-10-8	2-4-15
0-10-8	2-4-15





2-4-15

Scale = 1:27.4

1								
		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
	0.15	Vert(LL)	0.00	4-5	>999	240	MT20	197/144

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	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: 9 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 2-4-15 oc purlins, except end verticals.

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

bracing.

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

5=0-3-8

Max Horiz 5=53 (LC 9)

Max Uplift 3=-44 (LC 12), 5=-31 (LC 8) Max Grav

3=64 (LC 1), 4=43 (LC 3), 5=185

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-5=-162/135, 1-2=0/26, 2-3=-43/24

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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 5 and 44 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



March 12,2024



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



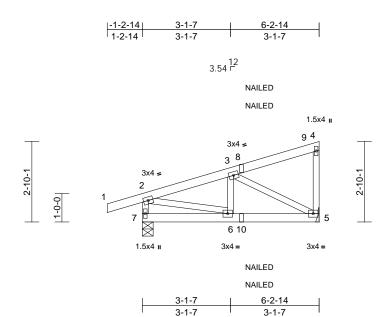
Job Truss Truss Type Qty Ply Roof - HR Lot 204 P240212-01 CJ01 Diagonal Hip Girder 2 Job Reference (optional

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

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148486 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 10 824:32 ID:LawX8EJT2pjPgBnQfl3QiXzkXV6-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK_VrCDoi7342JC.ff



Scale = 1:40.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.00	6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	-0.01	5-6	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

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

Max Horiz 7=122 (LC 9)

Max Uplift 5=-66 (LC 12), 7=-118 (LC 8) Max Grav 5=262 (LC 1), 7=376 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-7=-350/363, 1-2=0/27, 2-3=-318/195,

3-4=-86/73, 4-5=-87/111

BOT CHORD 6-7=-274/138, 5-6=-297/275 WFBS 2-6=-101/283, 3-6=0/98, 3-5=-313/297

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 6-1-10 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- Bearings are assumed to be: Joint 7 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 7 and 66 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 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, 2-4=-70, 5-7=-20

Concentrated Loads (lb)

Vert: 10=-1 (F=-1, B=-1)



March 12,2024





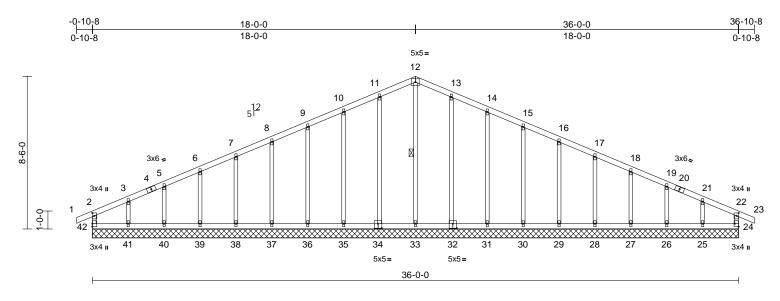


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	C09	Common Supported Gable	1	1	Job Reference (optional)	

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148487 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 32 32 ID:ewrAceOsPybP0GqmZjh3U?zkXV?-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol



Scale = 1:64.2

Plate Offsets (X, Y): [2:0-2-0,0-1-4], [22:0-2-0,0-1-4], [24:Edge,0-2-8], [32:0-2-8,0-3-0], [34:0-2-8,0-3-0]

28=-54 (LC 13), 29=-55 (LC 13),

30=-53 (LC 13), 31=-60 (LC 13),

32=-48 (LC 13), 34=-49 (LC 12),

35=-60 (LC 12), 36=-53 (LC 12),

37=-55 (LC 12), 38=-54 (LC 12),

39=-58 (LC 12), 40=-40 (LC 12),

41=-117 (LC 12), 42=-56 (LC 13)

26=183 (LC 1), 27=179 (LC 26),

28=180 (LC 1), 29=180 (LC 26),

30=180 (LC 1), 31=178 (LC 26),

32=189 (LC 26), 33=199 (LC 22),

34=189 (LC 25), 35=178 (LC 25),

36=180 (LC 1), 37=180 (LC 25),

38=180 (LC 1), 39=179 (LC 25),

40=183 (LC 1), 41=169 (LC 25),

Max Grav 24=159 (LC 1), 25=169 (LC 26),

42=159 (LC 1)

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 176 lb	FT = 20%

LUMBER	0.400.11.0			FORCES	(lb) - Maximum Compression/Maximum Tension
TOP CHORD	2x4 SP No.2				
BOT CHORD	2x4 SP No.2			TOP CHORD	2-42=-143/104, 1-2=0/26, 2-3=-112/85,
WEBS	2x3 SPF No.	2			3-5=-74/96, 5-6=-53/120, 6-7=-51/142,
OTHERS	2x3 SPF No.	2			7-8=-66/183, 8-9=-81/227, 9-10=-96/270,
BRACING					10-11=-112/316, 11-12=-128/355,
TOP CHORD	Ctructural wa	and abou	thing directly applied or		12-13=-128/355, 13-14=-112/316,
TOP CHORD			athing directly applied or		14-15=-96/270, 15-16=-81/227,
DOT OLIODO			cept end verticals.		16-17=-66/183, 17-18=-51/140,
BOT CHORD	0 0	airectly	applied or 10-0-0 oc		18-19=-37/98, 19-21=-56/75, 21-22=-88/61,
	bracing.				22-23=0/26, 22-24=-143/102
WEBS	1 Row at mic	dpt '	12-33	BOT CHORD	41-42=-34/89, 40-41=-34/89, 39-40=-34/89,
REACTIONS	(size) 24	l=36-0-0	, 25=36-0-0, 26=36-0-0,	DOT CHOKE	38-39=-34/89. 37-38=-34/89. 36-37=-34/89.
	27	7=36-0-0	, 28=36-0-0, 29=36-0-0,		35-36=-34/89, 33-35=-34/89, 31-33=-34/90,
	30	=36-0-0	, 31=36-0-0, 32=36-0-0,		
	33	3=36-0-0	, 34=36-0-0, 35=36-0-0,		30-31=-34/90, 29-30=-34/90, 28-29=-34/90,
			. 37=36-0-0. 38=36-0-0.		27-28=-34/90, 26-27=-34/90, 25-26=-34/90,
			, 40=36-0-0, 41=36-0-0,		24-25=-34/90
		2=36-0-0	, , , , , , , , , , , , , , , , , , , ,	WEBS	12-33=-185/27, 11-34=-150/77,
					10-35=-139/95, 9-36=-140/88, 8-37=-140/89,
	Max Horiz 42	,	,		7-38=-140/90, 6-39=-139/90, 5-40=-143/112,
		,	C 12), 25=-105 (LC 13),		3-41=-127/147, 13-32=-150/77,
		,	C 13), 27=-57 (LC 13),		14-31=-139/95, 15-30=-140/88,
	വ	E / / I /	2 4 2 \ 20 EE (I C 4 2 \		

NOTES

Unbalanced roof live loads have been considered for this design.

21-25=-127/148

16-29=-140/89, 17-28=-140/90,

18-27=-139/90, 19-26=-143/112,

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 4-0-0, Exterior(2N) 4-0-0 to 18-0-0, Corner(3R) 18-0-0 to 23-0-0, Exterior(2N) 23-0-0 to 36-10-8 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

- 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.
- Truss to be fully sheathed from one face or securely
- braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



March 12,2024

ontinued on page 2

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



Roof - HR Lot 204 Job Truss Truss Type Qty Ply P240212-01 C09 Common Supported Gable Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148487 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1084:3202/269:24
ID:ewrAceOsPybP0GqmZjh3U?zkXV?-RfC?PsB70Hq3NSgPqnL8w3uITXbGVWrCDow4zJE/f

11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 42, 38 lb uplift at joint 24, 49 lb uplift at joint 34, 60 lb uplift at joint 35, 53 lb uplift at joint 36, 55 lb uplift at joint 37, 54 lb uplift at joint 38, 58 lb uplift at joint 39, 40 lb uplift at joint 40, 117 lb uplift at joint 41, 48 lb uplift at joint 32, 60 lb uplift at joint 31, 53 lb uplift at joint 30, 55 Ib uplift at joint 29, 54 lb uplift at joint 28, 57 lb uplift at joint 27, 42 lb uplift at joint 26 and 105 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.

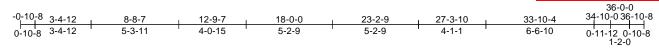
LOAD CASE(S) Standard

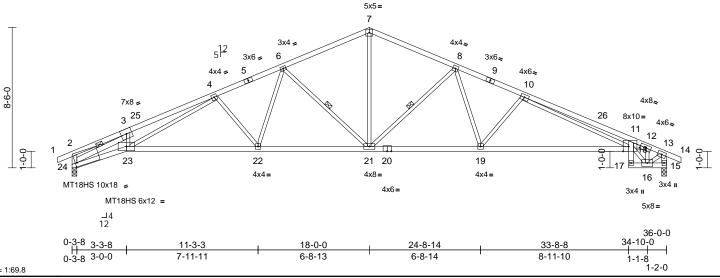


Job Truss Truss Type Qty Ply Roof - HR Lot 204 Roof Special P240212-01 C08 5 Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148488 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 ID:QowS74R2pZ_dxeTN2QyFYwzkX9?-RfC?PsB70Hq3NSgPqnL8w3uITXb6KWrCD





Scale = 1:69.8

Plate Offsets (X, Y): [11:0-4-0,Edge], [24:0-1-4,0-3-0]

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	0.71	Vert(LL)	-0.31	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.71	18-19	>602	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.47	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 170 lb	FT = 20%

LUMBER TOP CHORD

BOT CHORD

2x4 SP No.2 *Except* 1-5,9-14:2x4 SP

2400F 2.0E

2x4 SP 1650F 1.5E *Except* 11-17,17-15:2x4 SP No.2

2x3 SPF No.2 *Except* WEBS

24-2,24-3,15-13,18-12:2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-6-9 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing, Except:

7-8-11 oc bracing: 23-24 9-9-11 oc bracing: 22-23.

WFBS 3-24, 6-21, 8-21 1 Row at midpt

REACTIONS (size) 15=0-3-8, 24=0-3-8

Max Horiz 24=-120 (LC 17) Max Uplift 15=-275 (LC 13), 24=-275 (LC 12)

Max Grav 15=1678 (LC 1), 24=1678 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

BOT CHORD

TOP CHORD 1-2=0/27 2-3=-563/133 3-4=-4517/886

4-6=-3122/518, 6-7=-2247/446, 7-8=-2245/454, 8-10=-3147/520 10-11=-5205/899, 11-12=-4627/723,

12-13=-1380/214, 13-14=0/27,

2-24=-490/151, 13-15=-1559/296

23-24=-865/4441, 22-23=-530/3187 21-22=-347/2632, 19-21=-285/2634,

18-19=-414/3216, 17-18=-17/140,

11-18=-311/214, 16-17=-82/358, 15-16=-26/170

WEBS

3-23=-18/857, 7-21=-186/1305 3-24=-4540/747, 13-16=-173/1270, 12-16=-1826/238, 16-18=-118/1190, 12-18=-493/3076, 4-22=-579/246, 4-23=-341/1120, 6-22=-99/658,

6-21=-865/275, 8-21=-867/261, 8-19=-96/697, 10-19=-602/249,

10-18=-377/1736

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 18-0-0, Exterior(2R) 18-0-0 to 23-2-9, Interior (1) 23-2-9 to 36-10-8 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

All plates are MT20 plates unless otherwise indicated.

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

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

Bearings are assumed to be: Joint 24 SP 1650F 1.5E crushing capacity of 565 psi, Joint 15 SP No.2 crushing capacity of 565 psi.

Bearing at joint(s) 24 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 275 lb uplift at joint 24 and 275 lb uplift at joint 15.

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

LOAD CASE(S) Standard



March 12,2024



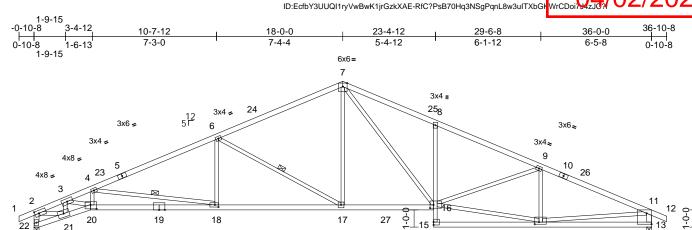


Job Truss Truss Type Qty Ply Roof - HR Lot 204 P240212-01 C07 Roof Special 2 Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148489 LEE'S SUMMIT. MISSOURI

10x10=

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 (18) ID:EcfbY3UUQI1ryVwBwK1jrGzkXAE-RfC?PsB70Hq3NSgPqnL8w3uITXbG**r**WrCDoi



4x4 =

12 1-9-15 0-3-8 H 0-3-8

1-6-7

3x4 II

(psf)

25.0

10.0

10.0

0.0

5x8 =

MT18HS 5x8 =

Spacing

Code

Plate Grip DOL

Rep Stress Incr

Lumber DOL

10-7-12 7-4-4

MT18HS 5x8 =

Plate Offsets (X, Y): [2:0-2-15,0-2-0], [13:Edge,0-7-11], [14:0-3-0,0-1-8], [16:0-2-8,0-2-4], [18:0-2-8,0-1-8], [20:0-4-4,0-2-12]

2-0-0

1.15

1.15

YES

18-0-0

CSI

TC

BC

WB

Matrix-S

23-3-8 5-3-8

DEFL

Vert(LL)

Vert(CT)

Horz(CT)

0.76

0.96

0.86

5x8=

4x4 II

-0.33

-0.59

0.30

(loc)

13

29-6-8

6-3-0

I/defI L/d 18-20 >999 240 18-20 >721 180 n/a

14

5x8=

MT20 244/190 MT18HS 197/144

GRIP

36-0-0

6-5-8

PLATES

Weight: 171 lb FT = 20%

BCLL BCDL

TCLL (roof)

Loading

TCDL

Scale = 1:67.2

8-6-0

0-0-

LUMBER TOP CHORD 2x4 SP 1650F 1.5E *Except* 1-5,10-12:2x4 SP No.2

2x4 SP No.2 *Except* 20-19,19-16:2x4 SP **BOT CHORD**

1650F 1.5E, 8-15:2x3 SPF No.2 **WEBS** 2x3 SPF No.2 *Except* 22-2,13-11:2x4 SP

BRACING

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

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

bracing, Except: 7-9-13 oc bracing: 20-21 2-2-0 oc bracing: 18-20.

WFBS 1 Row at midpt 6-17, 4-18 REACTIONS (size) 13=0-3-8, 22=0-3-8

Max Horiz 22=-120 (LC 17) Max Uplift 13=-275 (LC 13), 22=-275 (LC 12)

Max Grav 13=1730 (LC 2), 22=1728 (LC 2) **FORCES** (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/27 2-3=-2903/491 3-4=-4868/843 4-6=-3447/520, 6-7=-2395/436, 7-8=-3071/594, 8-9=-3068/497, 9-11=-2929/426, 11-12=0/27,

2-22=-1675/327, 11-13=-1617/334 21-22=-157/245, 20-21=-561/2775, 18-20=-876/4478, 17-18=-451/3120,

16-17=-171/2125, 15-16=0/113, 8-16=-432/236, 14-15=-13/149,

13-14=-122/430 **WEBS** 4-20=-1/456, 7-16=-338/1095 14-16=-310/2517, 9-16=-26/206,

9-14=-529/167, 2-21=-392/2466, 11-14=-225/2220, 3-20=-355/1995, 3-21=-1223/188, 7-17=-90/843, 6-17=-1141/345, 6-18=0/491,

4-18=-1374/430

IRC2018/TPI2014 NOTES

3x6=

- 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 18-0-0. Exterior(2R) 18-0-0 to 23-0-0, Interior (1) 23-0-0 to 36-10-8 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 22 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 275 lb uplift at ioint 22 and 275 lb uplift at ioint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 12,2024

BOT CHORD

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

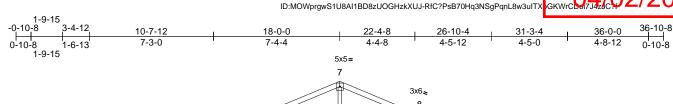
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job Truss Truss Type Qty Ply Roof - HR Lot 204 P240212-01 C06 Roof Special 6 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148490 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 108; ID:MOWprgwS1U8Al1BD8zUOGHzkXUJ-RfC?PsB70Hq3NSgPqnL8w3ulTX



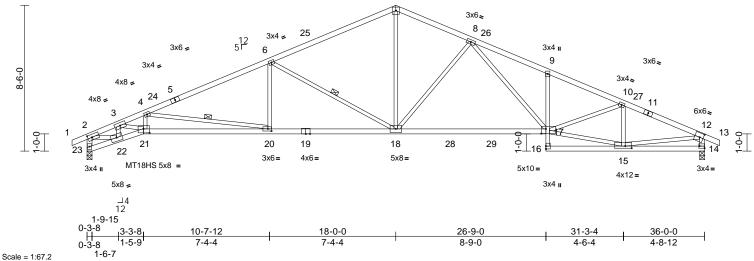


Plate Offsets (X, Y): [2:0-2-15,0-2-0], [12:0-2-9,0-3-0], [14:Edge,0-1-8], [15:0-4-8,0-1-8], [17:0-3-4,0-3-4], [20:0-2-8,0-1-8], [21:0-4-4,0-2-12]

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	0.76	Vert(LL)	-0.46	17-18	>939	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.82	17-18	>525	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.32	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 168 lb	FT = 20%

LUMBER

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

1.5E

BOT CHORD 2x4 SP No.2 *Except* 21-19,19-17:2x4 SP 1650F 1.5E, 9-16:2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except* 23-2,14-12:2x4 SP

BRACING

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

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

bracing.

WEBS 4-20, 6-18 1 Row at midpt REACTIONS 14=0-3-8, 23=0-3-8 (size) Max Horiz 23=-120 (LC 17)

Max Uplift 14=-275 (LC 13), 23=-275 (LC 12) Max Grav 14=1733 (LC 2), 23=1724 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-2894/491, 3-4=-4864/841,

4-6=-3430/522, 6-7=-2399/430, 7-8=-2353/449, 8-9=-3589/595 9-10=-3561/528, 10-12=-2799/412,

12-13=0/27, 2-23=-1670/327, 12-14=-1638/324

BOT CHORD 22-23=-157/244, 21-22=-561/2768,

20-21=-875/4473, 18-20=-453/3104,

17-18=-276/2600, 16-17=0/85, 9-17=-320/168, 15-16=-42/76, 14-15=-70/299

4-21=0/464, 4-20=-1385/426, 6-20=0/470, 6-18=-1118/354, 7-18=-171/1461, 8-18=-767/282, 8-17=-216/1043, 10-17=-55/764, 2-22=-392/2458,

12-15=-265/2260, 10-15=-824/176, 15-17=-289/2560, 3-21=-353/1999,

3-22=-1227/187

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 18-0-0, Exterior(2R) 18-0-0 to 23-0-0, Interior (1) 23-0-0 to 36-10-8 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 23 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 275 lb uplift at joint 23 and 275 lb uplift at joint 14.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 12,2024

NOTES

WEBS

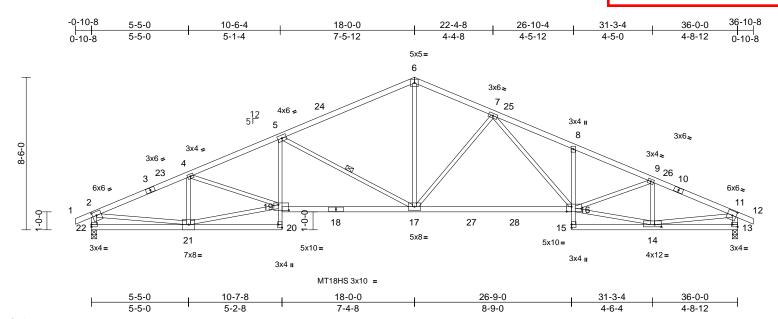
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



Ply Job Truss Truss Type Qty Roof - HR Lot 204 P240212-01 C05 Roof Special Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148491 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 18 ID:Do4JrdsVQdc4LgXOR7cmHVzkXB1-RfC?PsB70Hq3NSgPqnL8w3uITXb0KWrCD



Scale = 1:64.2

Plate Offsets (X, Y): [2:0-2-12,0-2-8], [11:0-2-9,0-3-0], [13:Edge,0-1-8], [14:0-4-8,0-1-8], [16:0-3-4,0-3-4], [19:0-7-0,0-3-12], [20: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	0.72	Vert(LL)	-0.45	16-17	>946	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.80	16-17	>534	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.21	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 174 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E *Except* 1-3,10-12:2x4 TOP CHORD

SP No.2

BOT CHORD 2x4 SP No.2 *Except* 20-5.8-15:2x3 SPF No.2, 19-18,18-16:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 *Except* 22-2,13-11:2x4 SP

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-15 oc purlins, except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 14-15. WEBS 1 Row at midpt 5-17

REACTIONS (size) 13=0-3-8, 22=0-3-8 Max Horiz 22=121 (LC 16)

Max Uplift 13=-275 (LC 13), 22=-275 (LC 12)

Max Grav 13=1733 (LC 2), 22=1724 (LC 2)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/27, 2-4=-2843/414, 4-5=-3464/544, TOP CHORD

5-6=-2393/426, 6-7=-2348/447, 7-8=-3594/596, 8-9=-3564/529, 9-11=-2799/412, 11-12=0/27

2-22=-1622/328, 11-13=-1638/324 BOT CHORD

21-22=-214/403, 20-21=-40/167, 19-20=0/97, 5-19=-33/589, 17-19=-472/3177,

16-17=-274/2596, 15-16=0/85,

8-16=-322/169, 14-15=-39/64, 13-14=-70/299

WEBS 4-21=-746/201, 19-21=-408/2455, 4-19=-78/633, 5-17=-1192/374,

6-17=-161/1436, 7-17=-767/282,

7-16=-218/1055, 9-16=-56/767,

2-21=-236/2221, 11-14=-265/2259,

9-14=-826/177, 14-16=-292/2570

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 18-0-0, Exterior(2R) 18-0-0 to 23-0-0, Interior (1) 23-0-0 to 36-10-8 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
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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 275 lb uplift at joint 22 and 275 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 12,2024



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

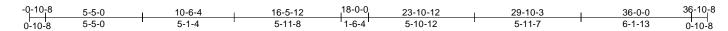


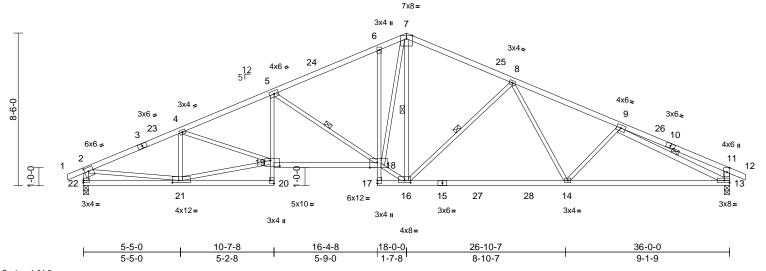
Job Truss Truss Type Qty Ply Roof - HR Lot 204 P240212-01 C04 Roof Special Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148492 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 18 ID:IK_W3TeCg5LdAv8wNLIYYizkXBJ-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7





Scale = 1:64.2

Plate Offsets (X, Y): [2:0-2-12,0-2-8], [11:0-3-0,0-1-12], [16:0-4-0,0-1-8], [18:0-5-0,Edge], [19:0-6-4,0-3-12], [20:Edge,0-2-8], [21:0-4-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	-0.31	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.54	14-16	>789	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.20	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 185 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP 1650F 1.5E *Except* 22-20:2x4 SP

No.2. 20-5.6-17:2x3 SPF No.2

WFBS 2x3 SPF No.2 *Except* 22-2,13-11,13-9:2x4

SP No.2

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-10-6 oc purlins, except end verticals.

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

bracing, Except:

6-0-0 oc bracing: 17-18,16-17.

WFBS 5-18, 9-13, 7-16, 8-16 1 Row at midpt

REACTIONS (size) 13=0-3-8, 22=0-3-8

Max Horiz 22=121 (LC 16)

Max Uplift 13=-275 (LC 13), 22=-275 (LC 12)

Max Grav 13=1738 (LC 2), 22=1725 (LC 2)

FORCES Tension

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=0/27. 2-4=-2851/418. 4-5=-3479/537.

5-6=-2543/455, 6-7=-2471/532,

7-8=-2099/424, 8-9=-2830/444, 9-11=-545/155, 11-12=0/27, 2-22=-1624/328,

11-13=-463/191

BOT CHORD 21-22=-208/396, 20-21=-25/91, 19-20=0/96,

5-19=-46/639, 18-19=-458/3186,

17-18=-172/0, 6-18=-293/186, 16-17=-42/45 14-16=-261/2352, 13-14=-347/2583

WEBS 4-21=-766/207, 19-21=-428/2547,

4-19=-60/630, 5-18=-1092/300, 7-18=-397/1935, 2-21=-244/2239,

9-13=-2443/332, 7-16=-476/115,

16-18=-122/2231, 8-16=-698/272,

8-14=-27/468, 9-14=-178/195

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 18-0-0, Exterior(2R) 18-0-0 to 23-0-0, Interior (1) 23-0-0 to 36-10-8 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 22 SP No.2 crushing capacity of 565 psi, Joint 13 SP 1650F 1.5E crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 275 lb uplift at joint 22 and 275 lb uplift at joint 13.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 12,2024



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

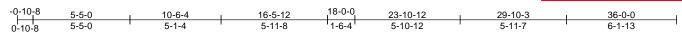


Job Truss Truss Type Qty Ply Roof - HR Lot 204 P240212-01 C03 Roof Special 8 Job Reference (optiona DEVELOPMENT SERVICES 164148493 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 18 ID:wv5pEcMn41RuwMuWX0N86szkXBg-RfC?PsB70Hq3NSgPqnL8w3uITXt GKWrCD



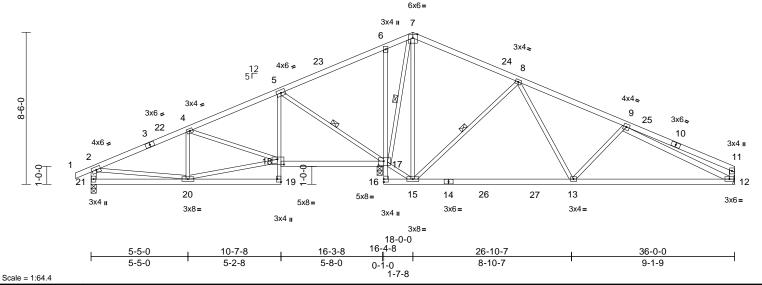


Plate Offsets (X, Y): [17:0-3-8,0-2-12], [18:0-4-8,0-3-8], [19:Edge,0-2-8]

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	0.52	Vert(LL)	-0.18	13-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.30	13-15	>780	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.01	17	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 183 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x4 SP No.2 *Except* 19-5,6-16:2x3 SPF BOT CHORD

No.2

WFBS 2x3 SPF No.2 *Except* 21-2,12-11,12-9:2x4

SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-7-8 oc purlins, except end verticals.

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

bracing. WEBS

1 Row at midpt 5-17, 7-17, 8-15 12= Mechanical, 17=0-3-8,

REACTIONS (size) 21=0-3-8

Max Horiz 21=129 (LC 16)

Max Uplift 12=-174 (LC 13), 17=-280 (LC 12),

21=-123 (LC 12)

12=805 (LC 28), 17=2014 (LC 2), Max Grav

21=655 (LC 27)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/27, 2-4=-804/142, 4-5=-436/118,

5-6=-54/535, 6-7=0/456, 7-8=-55/270, 8-9=-966/267, 9-11=-358/92, 2-21=-602/189,

11-12=-292/114

BOT CHORD 20-21=-194/255, 19-20=-15/20, 18-19=0/86,

5-18=-21/458, 17-18=-66/360, 16-17=-159/0,

6-17=-370/201, 15-16=-138/0

13-15=-61/535, 12-13=-231/1006 WEBS 4-20=-104/111, 18-20=-173/691,

4-18=-386/126. 5-17=-863/269.

7-17=-1301/190, 2-20=-13/488,

9-12=-851/224, 7-15=-194/918

15-17=-145/212, 8-15=-812/283

8-13=-47/640, 9-13=-346/217

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 18-0-0, Exterior(2R) 18-0-0 to 23-0-0, Interior (1) 23-0-0 to 35-10-4 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 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 21 SP No.2 crushing capacity of 565 psi, Joint 17 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 123 lb uplift at joint 21, 280 lb uplift at joint 17 and 174 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 12,2024



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 - HR Lot 204 P240212-01 C02 Roof Special 2 Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148494 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 (18) ID:CHDmS3BtTjmRKi7v_C9xqvzkXEU-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDa

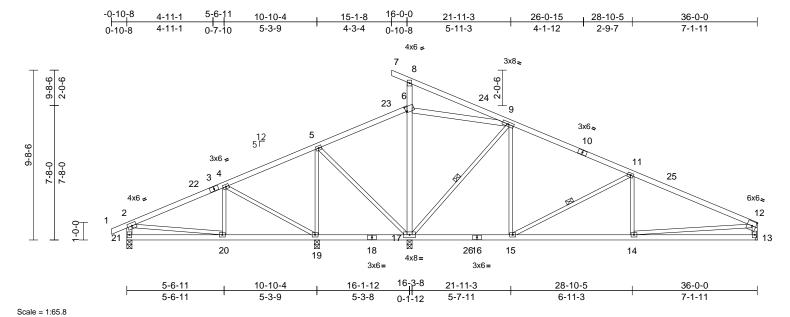


Plate Offsets (X, Y): [6:0-0-12,0-3-0]

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	0.70	Vert(LL)	-0.06	13-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.13	13-14	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 185 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except*

8-17,9-6,21-2,13-12:2x4 SP No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

4-7-7 oc purlins, except end verticals.

Except:

6-0-0 oc bracing: 6-8 **BOT CHORD**

Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 9-17, 11-15

REACTIONS (size) 13= Mechanical, 17=0-3-8, 19=0-3-8, 21=0-3-8

Max Horiz 21=-105 (LC 17)

Max Uplift 13=-144 (LC 13), 17=-329 (LC 13),

19=-160 (LC 12), 21=-95 (LC 12)

Max Grav 13=737 (LC 28), 17=1774 (LC 2), 19=650 (LC 25), 21=446 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-4=-389/139, 4-5=-9/424, 5-6=0/586, 6-17=-615/215, 6-8=-237/211,

7-8=-27/0, 8-9=-112/64, 9-11=-353/134,

11-12=-1045/217, 2-21=-395/187,

12-13=-651/181

BOT CHORD 20-21=-169/235, 19-20=-111/293, 17-19=-332/195, 15-17=0/219,

14-15=-139/900, 13-14=-78/275

WEBS 6-9=0/508, 2-20=-97/106, 12-14=-62/629,

5-19=-274/134, 5-17=-257/102,

4-19=-589/176, 4-20=0/228, 9-17=-1082/267, 9-15=-38/602, 11-15=-750/242, 11-14=0/258

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 16-1-12, Exterior(2E) 15-1-8 to 20-1-8, Interior (1) 20-1-8 to 35-10-4 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 3x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearings are assumed to be: Joint 21 SP No.2 crushing capacity of 565 psi, Joint 19 SP No.2 crushing capacity of 565 psi, Joint 17 SP No.2 crushing capacity of 565
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 329 lb uplift at joint 17, 95 lb uplift at joint 21, 144 lb uplift at joint 13 and 160 lb uplift at joint 19.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 12,2024



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 - HR Lot 204 P240212-01 C01 Roof Special Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148495 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 108 ID:ZPE42GuJG2XQkNP0lKB?1ezkXCH-RfC?PsB70Hq3NSgPqnL8w3ulTXb

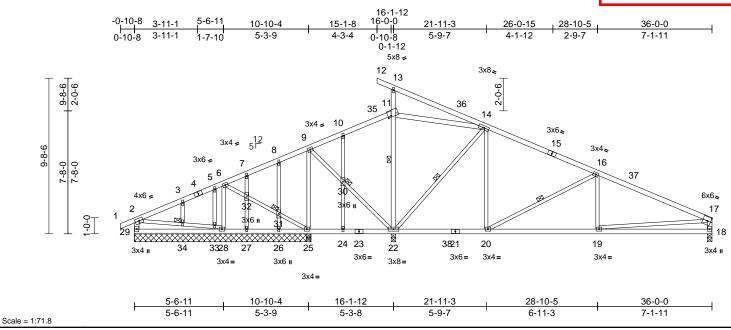


Plate Offsets (X, Y): [11:0-2-4,0-1-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.06	18-19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.13	18-19	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.01	18	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 198 lb	FT = 20%

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

29-2,18-17,13-22,14-11:2x4 SP No.2

OTHERS 2x3 SPF No.2

BRACING

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

4-6-15 oc purlins, except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 1 Row at midpt

JOINTS 1 Brace at Jt(s): 30,

31.34

REACTIONS (size) 18=0-3-8, 22=0-3-8, 25=11-0-0, 26=11-0-0, 27=11-0-0, 28=11-0-0,

29=11-0-0

Max Horiz 29=-175 (LC 13)

Max Uplift 18=-131 (LC 13), 22=-297 (LC 13), 25=-120 (LC 12), 26=-1 (LC 12),

27=-41 (LC 12), 28=-73 (LC 12), 29=-57 (LC 8)

Max Grav 18=747 (LC 28), 22=1763 (LC 2), 25=330 (LC 25), 26=70 (LC 27),

27=65 (LC 1), 28=373 (LC 25),

13-22, 16-20, 14-22

29=271 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/27, 2-3=-42/121, 3-5=-22/163, 5-6=-1/155, 6-7=0/274, 7-8=0/292, 8-9=0/318, 9-10=0/492, 10-11=0/516,

12-13=-27/0, 13-14=-113/28 14-16=-366/105, 16-17=-1064/190, 2-29=-221/140, 17-18=-656/168

BOT CHORD 28-29=-124/247, 27-28=-111/183,

26-27=-111/183, 25-26=-111/183, 24-25=-255/227, 22-24=-255/227, 20-22=0/248, 19-20=-114/917, 18-19=-77/277 11-22=-534/211, 11-13=-217/223, 6-28=-184/120, 9-25=-103/154,

9-30=-276/66, 22-30=-285/70, 6-32=-191/57, 31-32=-188/56, 25-31=-192/57, 14-20=-36/597, 16-19=0/255, 17-19=-37/644. 2-34=-253/136, 33-34=-256/138, 28-33=-272/147, 16-20=-743/244

14-22=-1079/272. 10-30=-107/94. 24-30=-94/87, 8-31=-91/61, 26-31=-87/59, 7-32=-49/24, 27-32=-56/27, 5-33=-56/30, 3-34=-32/18. 11-14=0/481

NOTES

WEBS

Unbalanced roof live loads have been considered for 1) this design

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=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 16-0-0, Exterior(2R) 15-1-8 to 20-1-8, Interior (1) 20-1-8 to 35-10-4 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

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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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 131 lb uplift at joint 18, 57 lb uplift at joint 29, 297 lb uplift at joint 22, 73 Ib uplift at joint 28, 120 lb uplift at joint 25, 1 lb uplift at joint 26 and 41 lb uplift at joint 27.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



March 12,2024



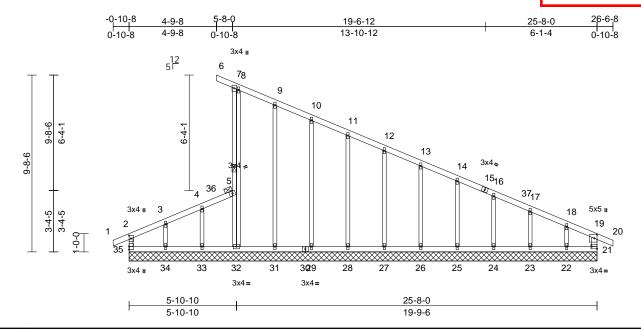
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148496 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 18 ID:bzCw6On6o49uPtGdBr3k7RzkXGI-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi



Scale = 1:63.2

Plate Offsets (X, Y):	[2:0-2-0,0-1-4],	[19:0-2-8,0-1-12]], [21:Edge,0-1-8]
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Loading	(nof)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
Loading	(psf)	Spacing	2-0-0	Col		DELL	in	(IOC)	i/deli	L/u	PLATES	GRIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.40	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.02	21	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 135 lb	FT = 20%

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x3 SPF No.2 *Except* 19-21:2x4 SP No.2

OTHERS 2x3 SPF No 2

BRACING

TOP CHORD

LUMBER

Structural wood sheathing directly applied or

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

6-0-0 oc bracing: 5-7

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

bracing.

WEBS 1 Row at midpt 8-32 **JOINTS** 1 Brace at Jt(s): 5

REACTIONS (size) 21=25-8-0, 22=25-8-0, 23=25-8-0,

24=25-8-0, 25=25-8-0, 26=25-8-0, 27=25-8-0, 28=25-8-0, 29=25-8-0,

31=25-8-0, 32=25-8-0, 33=25-8-0,

34=25-8-0, 35=25-8-0

Max Horiz 35=-308 (LC 8)

Max Uplift 22=-262 (LC 13), 23=-17 (LC 13), 24=-64 (LC 13), 25=-52 (LC 13),

26=-55 (LC 13), 27=-54 (LC 13), 28=-54 (LC 13), 29=-61 (LC 13),

31=-27 (LC 13), 32=-154 (LC 12), 33=-60 (LC 8), 34=-215 (LC 12),

35=-52 (LC 10)

21=297 (LC 8), 22=141 (LC 1), Max Grav 23=188 (LC 26), 24=178 (LC 1),

25=180 (LC 26), 26=180 (LC 26), 27=180 (LC 1), 28=180 (LC 26). 29=182 (LC 26), 31=174 (LC 26),

32=214 (LC 1), 33=168 (LC 1), 34=173 (LC 25), 35=195 (LC 21)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-35=-150/75, 1-2=0/26, 2-3=-272/104, 3-4=-197/93, 4-5=-197/133, 5-32=-136/239,

5-7=-85/193, 6-7=-26/0, 7-8=-77/86, 8-9=-106/99, 9-10=-163/90, 10-11=-217/71,

11-12=-259/86, 12-13=-303/101, 13-14=-346/116, 14-16=-389/131,

16-17=-435/147, 17-18=-467/158, 18-19=-580/197, 19-20=0/27, 19-21=-311/89

34-35=-182/533, 33-34=-182/533, 32-33=-182/533. 31-32=-186/546.

29-31=-186/546, 28-29=-186/546, 27-28=-186/546, 26-27=-186/546,

25-26=-186/546, 24-25=-186/546, 23-24=-186/546, 22-23=-186/546

21-22=-186/546

WFRS 3-34=-131/172, 4-33=-130/134, 8-32=-78/86,

9-31=-133/138, 10-29=-142/116, 11-28=-140/88, 12-27=-140/89, 13-26=-140/89, 14-25=-140/88,

16-24=-139/96, 17-23=-146/97,

18-22=-140/300

NOTES

BOT CHORD

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-0-0, Exterior(2N) 4-0-0 to 5-9-4, Corner(3E) 4-9-8 to 10-0-0, Exterior(2N) 10-0-0 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
- 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.

- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 35, 154 lb uplift at joint 32, 215 lb uplift at joint 34, 60 lb uplift at joint 33, 27 lb uplift at joint 31, 61 lb uplift at joint 29, 54 lb uplift at joint 28, 54 lb uplift at joint 27, 55 lb uplift at joint 26, 52 lb uplift at joint 25, 64 lb uplift at joint 24, 17 lb uplift at joint 23 and 262 lb uplift at joint 22.
- 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.



March 12,2024

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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	B01	Roof Special Supported Gable	1	1	Job Reference (optional)	

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148496 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1084:2702/29:24
ID:bzCw6On6o49uPtGdBr3k7RzkXGI-RfC?PsB70Hq3NSgPqnL8w3uITXbGi_WrcDoix42J0;

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

LOAD CASE(S) Standard



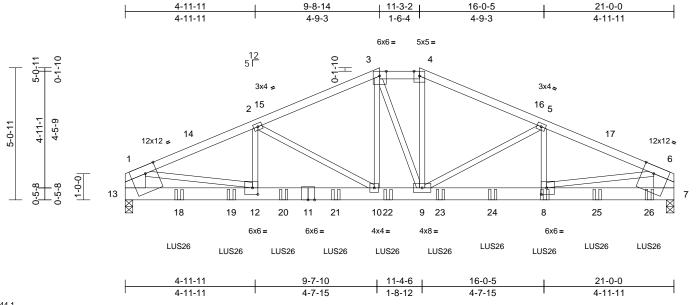
Job		Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240	212-01	A04	Hip Girder	1	2	Job Reference (optional)	

DEVELOPMENT SERVICES 164148497 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 18 ID:nfQL9Uxqcgc1pixCJTAKa3zkX73-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\VrCDoi7\42JC?f4



Scale = 1:44.1

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

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	0.46	Vert(LL)	-0.13	10-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.23	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 209 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 13-1,7-6:2x10 HF WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-5-12 oc purlins, except end verticals, and 2-0-0 oc purlins (5-4-9 max.): 3-4.

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

bracing

REACTIONS 7=0-3-8, (req. 0-3-14), 13=0-3-8 (size)

Max Horiz 13=44 (LC 16)

Max Uplift 7=-1109 (LC 13), 13=-962 (LC 12)

Max Grav 7=4907 (LC 2), 13=4390 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-6931/1623, 2-3=-5771/1403,

3-4=-5303/1334 4-5=-5824/1416 5-6=-7010/1663, 1-13=-3679/886,

6-7=-3706/902

BOT CHORD 12-13=-330/1272. 10-12=-1485/6331.

9-10=-1190/5253. 8-9=-1492/6403.

7-8=-345/1375

WEBS 2-12=-184/916, 2-10=-1244/350,

3-10=-420/1841, 3-9=-96/281, 4-9=-457/1962, 5-9=-1269/378 5-8=-214/954, 1-12=-1172/5131,

6-8=-1169/5099

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, 2x10 - 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.
- 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(2F) 0-4-10 to 5-4-10 Interior (1) 5-4-10 to 9-8-14, Exterior(2E) 9-8-14 to 11-3-2, Exterior(2R) 11-3-2 to 18-4-0, Interior (1) 18-4-0 to 20-7-6 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- WARNING: Required bearing size at joint(s) 7 greater than input bearing size.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 962 lb uplift at joint 13 and 1109 lb uplift at joint 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) 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 LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 4-0-12 to connect truss(es) to back face of bottom chord.
- 14) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 6-0-12 from the left end to 20-0-12 to connect truss(es) to back face of bottom chord.
- 15) 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: 1-3=-70, 3-4=-70, 4-6=-70, 7-13=-20 Concentrated Loads (lb)

Vert: 8=-759 (B), 18=-697 (B), 19=-697 (B), 20=-759 (B), 21=-759 (B), 22=-759 (B), 23=-759 (B), 24=-759 (B), 25=-759 (B), 26=-760 (B)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.



March 12,2024



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 - HR Lot 204	
P240212-01	A03	Hip	1	1	Job Reference (optional	

8-4-12

8-4-12

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 18:11:26 ID:fJZk7uYBGFlbdyJzaMEHrRzkXGb-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi794zJQ?

21-0-0

8-4-12

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21-10-8 4-4-4 8-6-0 12-6-0 16-7-12 21-0-0 4-4-4 4-1-12 4-0-0 4-1-12 4-4-4 0-10-8 4x4 = 6x6 = 12 5 [5 4 \boxtimes \bowtie 3x4 = 3x4 s 3 6 3x4 II 3x4 II 15 1-0-0 13 \mathbb{R} 12 11 10 3x6 = 3x6 = 4x4 = 3x8 = 3x4 =

12-7-4

4-2-8

Scale = 1:42.9

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	0.27	Vert(LL)	-0.14	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.28	9-10	>886	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.69	Horz(CT)	0.04	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 13-2,9-7:2x4 SP No.2 WEBS

BRACING

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

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

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

bracing

REACTIONS (size) 9=0-3-8, 13=0-3-8

Max Horiz 13=-45 (LC 13) Max Uplift 9=-153 (LC 13), 13=-153 (LC 12)

Max Grav 9=1003 (LC 1), 13=1003 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/27, 2-3=-304/73, 3-4=-1287/300,

4-5=-1136/306, 5-6=-1287/300, 6-7=-304/73,

7-8=0/27, 2-13=-318/148, 7-9=-318/148 11-13=-287/1224, 10-11=-144/1136,

9-10=-238/1224

3-11=-130/168, 4-11=0/233, 5-11=-123/124,

5-10=-7/233, 6-10=-130/168 3-13=-1166/300, 6-9=-1166/300

NOTES

WFBS

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-2-5, Interior (1) 4-2-5 to 8-6-0, Exterior(2E) 8-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 19-6-14, Interior (1) 19-6-14 to 21-10-8 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
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 13 and 153 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



March 12,2024



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 - HR Lot 204
P240212-01	A02	Hip	1	1	Job Reference (optional)

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 18:11:26 ID:xNyy1URwdAV?QQY2_F2xRKzkXGI-RfC?PsB70Hq3NSgPqnL8w3ulTXb3KWrCDbi7J4zJC1

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148499

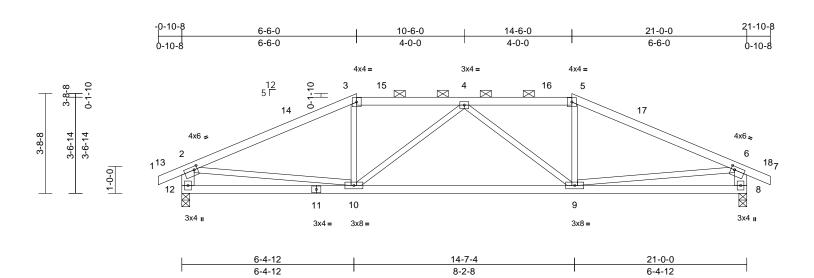


Plate Offsets (X, Y): [2:0-1-8,0-1-8], [6:0-1-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.10	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.23	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 92 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD

Structural wood sheathing directly applied or 4-1-14 oc purlins, except end verticals, and

2-0-0 oc purlins (5-1-11 max.): 3-5.

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

bracing.

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

Max Horiz 12=-28 (LC 17)

Max Uplift 8=-161 (LC 9), 12=-161 (LC 8)

Max Grav 8=1002 (LC 1), 12=1002 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/30, 2-3=-1437/301, 3-4=-1238/317, TOP CHORD

4-5=-1238/317, 5-6=-1437/301, 6-7=0/30,

2-12=-948/289, 6-8=-948/289

BOT CHORD 10-12=-195/388, 9-10=-278/1435,

8-9=-151/388

WEBS 3-10=0/277, 5-9=0/277, 2-10=-52/867,

6-9=-55/867, 4-10=-350/120, 4-9=-350/119

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 6-6-0, Exterior(2R) 6-6-0 to 13-6-14, Interior (1) 13-6-14 to 14-6-0, Exterior(2R) 14-6-0 to 21-6-14, Interior (1) 21-6-14 to 21-10-8 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

- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 12 and 161 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



March 12,2024



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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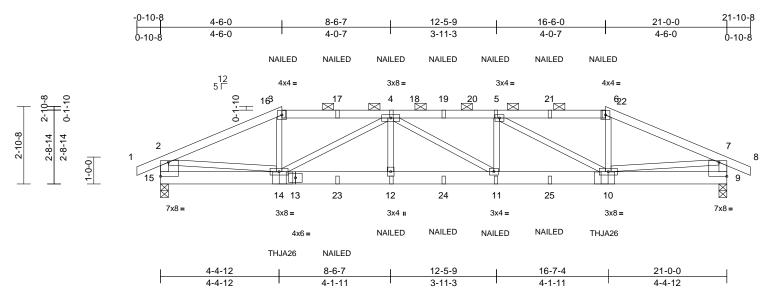


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 204	
P240212-01	A01	Hip Girder	1	2	Job Reference (optional	

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Mon Mar 1 13 ID:b9dePyA7oPj7n2spiefnYhzkXH5-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7J

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 164148500



Scale = 1:42.7

Plate Offsets (X, Y): [9:Edge,0-6-4], [15:Edge,0-6-4]

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	0.23	Vert(LL)	-0.07	11-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.13	11-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.02	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 196 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 15-2,9-7:2x4 SP 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.): 3-6.

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

bracing.

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

Max Horiz 15=-22 (LC 10)

Max Uplift 9=-404 (LC 9), 15=-404 (LC 8)

Max Grav 9=1577 (LC 1), 15=1577 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/27, 2-3=-2557/716, 3-4=-2286/684, 4-5=-3357/976, 5-6=-2288/685,

6-7=-2560/717, 7-8=0/27, 2-15=-1480/481,

7-9=-1481/482 14-15=-161/439, 12-14=-885/3370,

BOT CHORD 11-12=-885/3370, 10-11=-890/3357,

9-10=-133/438

WFBS 3-14=-94/646, 4-14=-1292/355, 4-12=0/258,

4-11=-44/21, 5-11=0/252, 5-10=-1276/348,

6-10=-94/645, 2-14=-484/1893,

7-10=-486/1897

NOTES

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

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

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc. Web connected as follows: 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.

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00: Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2F) -0-10-8 to 4-1-8 Interior (1) 4-1-8 to 4-6-0, Exterior(2R) 4-6-0 to 11-6-14, Interior (1) 11-6-14 to 16-6-0, Exterior(2E) 16-6-0 to 21-10-8 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
- Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom
- chord and any other members. All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 404 lb uplift at joint 15 and 404 lb uplift at joint 9.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 4-6-6 from the left end to connect truss(es) to front face of bottom chord.

- 13) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 16-5-10 from the left end to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 3=-68 (F), 6=-68 (F), 14=-263 (F), 4=-68 (F), 12=-30 (F), 11=-30 (F), 5=-68 (F), 10=-263 (F), 17=-68 (F), 19=-68 (F), 21=-68 (F), 23=-30 (F), 24=-30 (F), 25=-30 (F)



March 12,2024



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



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

Center plate on joint unless x, y Apply plates to both sides of truss Dimensions are in ft-in-sixteenths

₹ edge of truss. plates 0- 1/16" from outside For 4 x 2 orientation, locate

This symbol indicates the

connector plates. required direction of slots in

* Plate location details available in MiTek software or upon request

PLATE SIZE

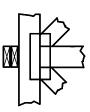
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



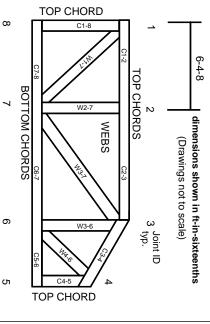
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-22: ANSI/TPI1:

Numbering System



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

Product Code Approvals

ICC-ES Reports

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

Design General Notes

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

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

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Mile

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

ω

- 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

'n

- 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.

œ

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

9

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