# 08/01/2024



RE: P240644-01 - Roof - HR Lot 151

MiTek, Inc.

16023 Swingley Ridge Rd.

Site Information:

Lot/Block: 151

Chesterfield, MO 63017 Project Customer: Clayton Properties Project Name: Tupelo - Transitional 3car

Subdivision: Hawthorne Ridge

314.434.1200

Model:

Address: 3212 SW Arboridge 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 Roof Load: 45.0 psf

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

No. 12345678911123145617819221223452627	Seal# 166279669 166279670 166279671 166279673 166279674 166279675 166279678 166279678 166279680 166279680 166279688 166279688 166279688 166279688 166279688 166279689 166279699 166279699 166279699 166279699	Truss Name A01 A02 A03 AG01 B01 B02 B03 B04 B05 B06 B07 B08 B09 B10 B11 B12 B13 C01 C02 CJ01 CJ02 CJ03 E01 E02 E03 E04 J01	Date 6/18/24	No. 35 37 38 39 41 42 43 44 45 46 47 48	Seal# 166279703 166279704 166279705 166279706 166279708 166279710 166279711 166279714 166279715 166279716	Truss Name J09 J10 J11 LG01 LG02 LG03 LG04 V01 V02 V03 V04 V05 V06 V07	6/18/24 6/18/24 6/18/24 6/18/24 6/18/24 6/18/24 6/18/24 6/18/24 6/18/24 6/18/24

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

166279699 166279700 166279701

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.



Ply Job Truss Truss Type Qty Roof - HR Lot 151 P240644-01 A01 Hip Girder 2 Job Reference (optional

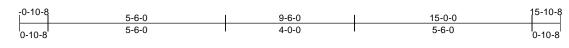
5-4-12

5-4-12

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279669 LEE'S SUMMIT. MISSOURI

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

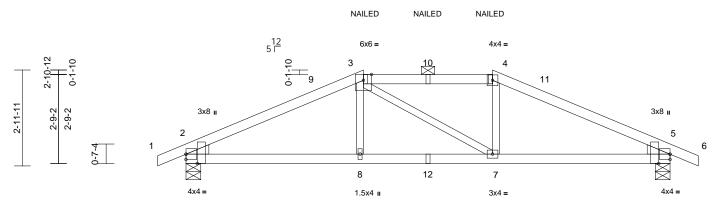
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1 ID:Rx2ckCi9L9dXFB1feNPNc3zX023-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7



NAILED

9-7-4

4-2-8



Scale = 1:35.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	,	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.03	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.06	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.09	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 117 lb	FT = 20%

Special

#### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS Left: 2x4 SP No 2 WEDGE Right: 2x4 SP No.2

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 3-4. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=49 (LC 12)

Max Uplift 2=-339 (LC 12), 5=-339 (LC 13) Max Grav 2=1244 (LC 1), 5=1244 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/4, 2-3=-2269/754, 3-4=-1957/732,

4-5=-2271/754, 5-6=0/4

2-8=-606/1974, 7-8=-604/1955, 5-7=-597/1976

WFBS 3-8=-42/474, 3-7=-99/102, 4-7=-58/504

### NOTES

BOT CHORD

- 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.
  - Bottom chords connected as follows: 2x4 1 row at
- Web connected as follows: 2x3 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B). unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-6-0, Exterior(2E) 5-6-0 to 15-10-8 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 arip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
- 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) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 340 lb down and 101 lb up at 5-6-0, and 340 lb down and 101 lb up at 9-5-4 on bottom chord. The design/ selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20 Concentrated Loads (lb)

15-0-0

5-4-12

Vert: 3=-104 (B), 4=-104 (B), 8=-340 (B), 7=-340 (B), 10=-104 (B), 12=-32 (B)



June 18,2024

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

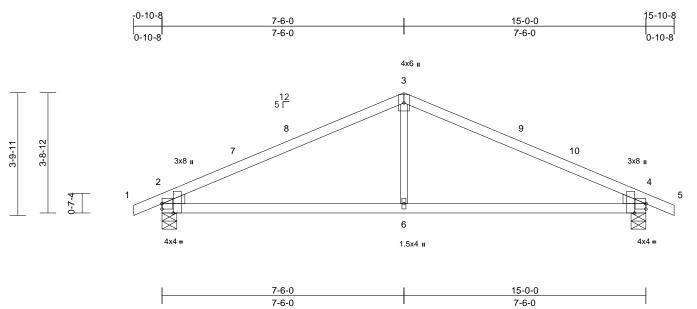
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Truss Type Job Truss Qty Roof - HR Lot 151 P240644-01 A02 Common Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279670 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/1322:20 ID:GO2bEdCmVLJ59GlCUJkgg6zX09A-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDc



Scale = 1:35.7

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	0.65	Vert(LL)	-0.07	2-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.16	2-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 54 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS Left: 2x4 SP No 2 WEDGE Right: 2x4 SP No.2

# **BRACING**

TOP CHORD Structural wood sheathing directly applied or

5-6-13 oc purlins.

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

bracing

REACTIONS (size) 2=0-5-8, 4=0-5-8

Max Horiz 2=66 (LC 12)

Max Uplift 2=-130 (LC 12), 4=-130 (LC 13)

Max Grav 2=732 (LC 1), 4=732 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=0/4, 2-3=-983/313, 3-4=-983/313,

4-5=0/4

BOT CHORD 2-6=-174/795, 4-6=-174/795

**WEBS** 3-6=0/353

#### NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-6-0, Exterior(2R) 7-6-0 to 12-6-0, Interior (1) 12-6-0 to 15-10-8 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2 and 4. This connection is for uplift only and does not consider lateral forces.
- 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





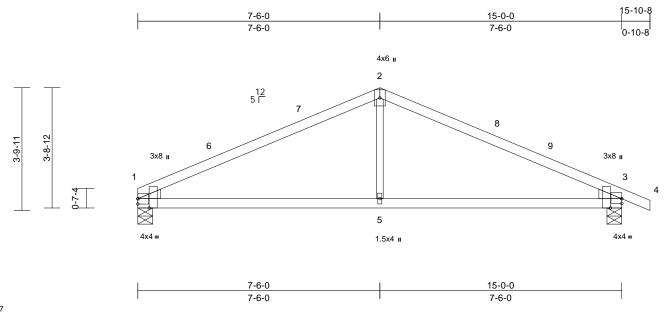


Ply Job Truss Truss Type Qty Roof - HR Lot 151 P240644-01 A03 3 Common Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279671 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S. Apr 26 2024 Print: 8.630 S. Apr 26 2024 MiTek Industries, Inc. Mon Jun 17032 ID:8Al64?FGZapXet2zj9pcqyzX096-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV rCDoi7J



Scale = 1:35.7

Plate Offsets (X, Y): [1:0-3-7,Edge], [3:Edge,0-1-12], [3:0-3-7,Edge]

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	1.00	Vert(LL)	-0.07	3-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.16	3-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.02	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 53 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E \*Except\* 2-4:2x4 SP

No.2

**BOT CHORD** 2x4 SP No.2 2x3 SPF No 2 WFBS WEDGE Left: 2x4 SP No.2

Right: 2x4 SP No.2

**BRACING** 

TOP CHORD Structural wood sheathing directly applied. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing REACTIONS (size) 1=0-5-8, 3=0-5-8

Max Horiz 1=-67 (LC 13)

Max Uplift 1=-101 (LC 12), 3=-130 (LC 13)

Max Grav 1=651 (LC 1), 3=735 (LC 1)

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

Tension

TOP CHORD 1-2=-988/322, 2-3=-991/315, 3-4=0/4

**BOT CHORD** 1-5=-176/803, 3-5=-176/803

WEBS 2-5=0/355

### 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) 0-2-12 to 5-2-12, Interior (1) 5-2-12 to 7-6-0, Exterior(2R) 7-6-0 to 12-6-0, Interior (1) 12-6-0 to 15-10-8 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.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 3 and 1. This connection is for uplift only and does not consider lateral forces.
- 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



June 18,2024



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



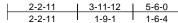
Job Truss Truss Type Qty Ply Roof - HR Lot 151 P240644-01 AG01 Jack-Closed Girder Job Reference (optional

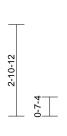
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

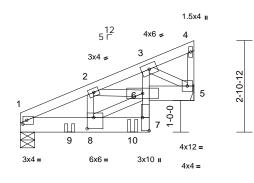
DEVELOPMENT SERVICES 166279672 LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 17 1922:20 ID:dARm\_ntuJZM8ts1zm4koxwzX08I-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7542S

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

3-11-12 5-6-0 2-2-11







LUS26

LUS24

4-1-0 2-2-11 2-2-11 1-10-5 1-5-0

Scale = 1:36.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.01	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.03	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.42	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x6 SPF No.2 \*Except\* 7-3:2x3 SPF No.2

2x3 SPF No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-0-13 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS 1=0-5-8, 5= Mechanical (size)

Max Horiz 1=97 (LC 9)

Max Uplift 1=-159 (LC 12), 5=-168 (LC 12)

Max Grav 1=925 (LC 1), 5=803 (LC 1)

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

Tension 1-2=-1310/299, 2-3=-1169/329, 3-4=-48/39,

TOP CHORD 4-5=-60/58

1-8=-381/1111, 7-8=-10/31, 6-7=-85/483, BOT CHORD

3-6=-253/1018 5-6=-382/1092

WFBS 3-5=-1282/424, 2-8=-77/211, 2-6=-51/33,

6-8=-420/1221

## NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 1 SPF No.2 crushing capacity of 425 psi.

- Refer to girder(s) for truss to truss connections
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 5.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 1. This connection is for uplift only and does not consider lateral forces.
- 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.
- Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent at 1-6-12 from the left end to connect truss(es) to back face of bottom chord.
- 10) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 3-6-12 from the left end to connect truss(es) to back face of bottom
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Vert: 1-4=-70, 1-7=-20, 5-6=-20 Concentrated Loads (lb)

Vert: 9=-631 (B), 10=-631 (B)

OF MISS SCOTT M. SEVIER OFFESSIONAL SE PE-2001018807

June 18,2024



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



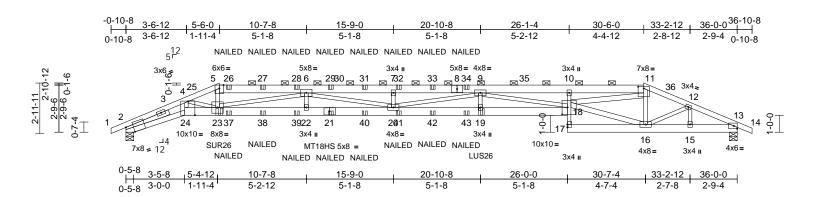
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151	
P240644-01	B01	Hip Girder	1	4	Job Reference (optional)	

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279673 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1792:21 ID:rFEsSGaFr2?AllTZuOlkGwzX?Wf-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK<mark>V</mark>rCDoi7**V2**JQ



#### Scale = 1:67.9

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	0.96	Vert(LL)	-0.56	19-20	>771	240	MT20	118/123
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-1.03	19-20	>417	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	NO	WB	0.75	Horz(CT)	0.32	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 806 lb	FT = 20%

LUMBER 2x4 SP No.2 \*Except\* 5-8,8-11:1 1/2" x 5 1/2" TOP CHORD

2.0E Microllam® LVL **BOT CHORD** 2x6 SP 2400F 2.0E \*Except\* 2-24:2x4 SP

1650F 1.5E, 10-17:2x3 SPF No.2, 17-13:2x6 SPF No.2

WFBS 2x3 SPF No.2 \*Except\* 16-18,18-11:2x4 SP

No.2

Left 2x4 SP No.2 -- 2-8-14 SLIDER

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-0-8 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 5-11. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 13=0-5-8

Max Horiz 2=-51 (LC 17)

Max Uplift 2=-747 (LC 8), 13=-584 (LC 9) Max Grav 2=3153 (LC 1), 13=2663 (LC 1)

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

Tension

TOP CHORD 1-2=-3/0 2-4=-13668/3216

4-5=-11949/2893, 5-6=-11242/2736, 6-7=-20852/5031, 7-9=-20852/5031, 9-10=-15404/3586, 10-11=-15007/3501,

11-12=-5422/1225, 12-13=-4931/1061, 13-14=0/10

**BOT CHORD** 2-24=-2913/12428, 23-24=-2669/11381

22-23=-4181/17361, 20-22=-4181/17361 19-20=-4767/20428, 18-19=-4767/20428,

17-18=0/88, 10-18=-850/276, 16-17=-132/593, 15-16=-899/4292,

13-15=-899/4292

**WEBS** 4-24=-713/3187, 4-23=-175/333,

5-23=-685/3067, 6-23=-6382/1570, 6-22=0/300, 6-20=-813/3668, 7-20=-564/255,

9-20=-384/510, 9-19=-94/844, 9-18=-5238/1290, 16-18=-962/4539, 11-18=-2483/10518, 11-16=-1136/319,

12-16=-186/883, 12-15=-240/90

#### NOTES

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

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

oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x3 - 1 row

at 0-9-0 oc. Web connected as follows: 2x3 - 1 row at 0-9-0 oc. 2x4 -

1 row at 0-9-0 oc

Attach BC w/ 1/2" diam. bolts (ASTM A-307) in the center of the member w/washers at 4-0-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-6-0, Exterior(2R) 5-6-0 to 12-6-14, Interior (1) 12-6-14 to 30-6-9, Exterior(2E) 30-6-9 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 2 SP 1650F 1.5E crushing capacity of 565 psi, Joint 13 SPF No.2 crushing capacity of 425 psi.
- 10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 11) Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 2. This connection is for uplift only and does not consider lateral forces.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



June 18,2024

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



Ply Qty Roof - HR Lot 151 Job Truss Truss Type 4 P240644-01 B01 Hip Girder Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279673 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1092:2101/2024

ID:rFEsSGaFr2?AIITZuOlkGwzX?Wf-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7 V2091

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

- 14) Use Simpson Strong-Tie SUR26 (6-10d Girder, 6-10dx1 1/2 Truss) or equivalent at 5-6-0 from the left end to connect truss(es) to back face of bottom chord, skewed 45.0 deg.to the right, sloping 0.0 deg. down.
- 15) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 20-11-4 from the left end to connect truss(es) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.
- 17) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

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

Vert: 1-5=-70, 5-11=-70, 11-14=-70, 2-24=-20, 18-24=-20, 13-17=-20

Concentrated Loads (lb)

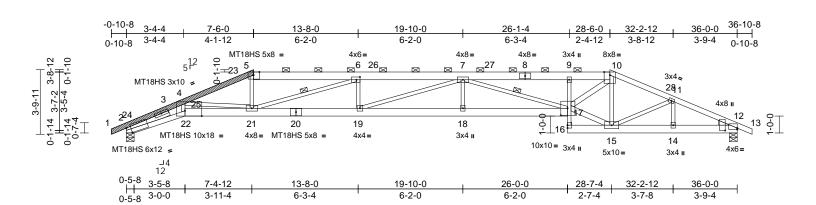
Vert: 21=-94 (B), 23=-408 (B), 19=-783 (B), 26=-63 (B), 27=-63 (B), 28=-63 (B), 29=-63 (B), 31=-63 (B), 32=-63 (B), 33=-50 (B), 34=-51 (B), 37=-94 (B), 38=-94 (B), 39=-94 (B), 40=-94 (B), 41=-94 (B), 42=-109 (B), 43=-116 (B)



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151	
P240644-01	B02	Hip	1	1	Job Reference (optional	

DEVELOPMENT SERVICES 166279674 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1032:210

ID:D8pUVNFK04Gl5duw55o4hSzX07p-RfC?PsB70Hq3NSgPqnL8w3ulTXbc WrCDow3420?f

#### Scale = 1:67.9

Plate Offsets (X, Y): [2:0-3-1,0-4-4], [5:0-4-2,Edge], [6:0-2-8,0-2-0], [10:0-4-2,Edge], [12:Edge,0-1-0], [12:0-1-11,0-8-8], [17:0-4-12,0-5-0], [22:0-11-14,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)		Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.59	18-19	>721	240	MT18HS	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-1.07	18-19	>399	180	MT20	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	0.93	Horz(CT)	0.43	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 200 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E \*Except\* 5-8,8-10:2x6

SPF No.2

2x6 SP 2400F 2.0E \*Except\* 2-22:2x4 SP **BOT CHORD** 2400F 2.0E, 9-16:2x3 SPF No.2, 16-12:2x6

SPF No.2

WFBS 2x3 SPF No.2 \*Except\* 15-17,17-10:2x4 SP

No.2

1-5 SP 1650F 1.5E one side

LBR SCAB

WEDGE Right: 2x4 SP No.2

**SLIDER** Left 2x4 SP 2400F 2.0E -- 2-8-14

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-9-12 oc purlins, except

2-0-0 oc purlins (2-5-12 max.): 5-10. **BOT CHORD** Rigid ceiling directly applied or 8-6-4 oc

bracing.

**WEBS** 6-21, 7-17 1 Row at midpt REACTIONS (size) 2=0-5-8, 12=0-5-8

Max Horiz 2=-65 (LC 17)

Max Uplift 2=-291 (LC 8), 12=-297 (LC 9) Max Grav 2=1673 (LC 1), 12=1683 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-3/0, 2-4=-6523/1073, 4-5=-4665/834,

5-6=-4304/795, 6-7=-6255/1229, 7-9=-5290/1023, 9-10=-5254/1021, 10-11=-3147/594, 11-12=-3185/534,

12-13=0/10

**BOT CHORD** 2-22=-955/5877, 21-22=-940/5857,

19-21=-1136/6255, 18-19=-1208/6633, 17-18=-1208/6633, 16-17=0/41, 9-17=-525/193, 15-16=-41/168, 14-15=-433/2794, 12-14=-433/2794

**WEBS** 

4-22=-229/1723, 4-21=-1517/311, 5-21=-156/1221, 6-21=-2192/474, 7-17=-1517/300, 15-17=-458/2965 10-17=-618/3181, 10-15=-1036/220, 11-15=-35/259, 11-14=-20/91, 6-19=0/296, 7-19=-505/87, 7-18=0/268

### **NOTES**

- Attached 9-2-5 scab 1 to 5, front face(s) 2x4 SP 1650F 1) 1.5E with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 2-7-11 from end at joint 1, nail 1 row(s) at 4" o.c. for 3-10-0; starting at 7-1-2 from end at joint 1, nail 1 row(s) at 7" o.c. for 2-0-0.
- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-6-0, Exterior(2R) 7-6-0 to 14-6-14 Interior (1) 14-6-14 to 28-6-0, Exterior(2R) 28-6-0 to 35-9-4, Interior (1) 35-9-4 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 12 SPF No.2 crushing capacity of 425 psi.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 10) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 2. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



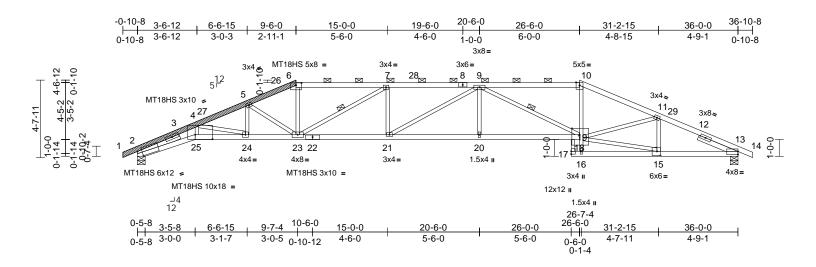


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151	
P240644-01	B03	Hip	1	1	Job Reference (optional	

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1052:21

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279675 LEE'S SUMMIT. MISSOURI

ID:peE38b26i2SXPdMQOFTJqAzX06o-RfC?PsB70Hq3NSgPqnL8w3uITXbCkWrCDoFJ42D7t



Scale = 1:69.1

Plate Offsets (X, Y): [2:0-3-1,0-4-4], [6:0-4-0,0-1-13], [13:Edge,0-2-4], [15:0-2-8,0-3-0], [19:0-4-8,0-5-8], [25:1-0-8,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.52	20-21	>826	240	MT18HS	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.83	Vert(CT)	-0.94	20-21	>454	180	MT20	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.46	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 180 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP 1650F 1.5E \*Except\* 6-8:2x4 SP

No.2

2x4 SP 2400F 2.0E \*Except\* 19-17:2x3 SPF **BOT CHORD** 

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

1650F 1.5E

WFBS 2x3 SPF No 2

1-6 SP 1650F 1.5E one side LBR SCAB **SLIDER** 

Left 2x4 SP No.2 -- 2-8-14, Right 2x4 SP

No.2 -- 2-6-3

BRACING TOP CHORD Structural wood sheathing directly applied or

2-6-3 oc purlins, except

2-0-0 oc purlins (2-2-0 max.): 6-10.

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

bracing. **WEBS** 

1 Row at midpt 7-23, 9-18

REACTIONS (size) 2=0-5-8, 13=0-5-8

Max Horiz 2=81 (LC 12)

Max Uplift 2=-265 (LC 8), 13=-271 (LC 9)

Max Grav 2=1673 (LC 1), 13=1683 (LC 1)

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

TOP CHORD 1-2=-3/0, 2-4=-6440/952, 4-5=-4512/722,

5-6=-3794/659, 6-7=-3525/630, 7-9=-4490/839, 9-10=-3471/614 10-11=-3760/637, 11-13=-3113/490,

13-14=0/4

**BOT CHORD** 2-25=-835/5798, 24-25=-763/5281,

23-24=-606/4225, 21-23=-719/4490, 20-21=-724/4531, 19-20=-724/4531, 18-19=-689/4430, 17-19=-210/0,

16-17=-37/102, 15-16=-34/171, 13-15=-383/2715

**WEBS** 

4-25=-207/1781, 6-23=-139/1165, 7-23=-1232/258, 9-18=-1324/277,

> 11-15=-510/140, 7-21=0/228, 9-21=-171/70, 9-20=0/240, 5-23=-893/201, 5-24=-32/372, 4-24=-1091/227, 16-18=0/351,

10-18=-104/1025, 15-18=-357/2599,

11-18=-119/864

NOTES

Attached 11-4-5 scab 1 to 6, front face(s) 2x4 SP 1650F 1.5E with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 2-7-11 from end at joint 1, nail 1 row(s) at 4" o.c. for 3-10-2; starting at 7-1-10 from end at joint 1, nail 1 row(s) at 7" o.c. for 2-0-0.

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 9-6-0, Exterior(2R) 9-6-0 to 16-6-14, Interior (1) 16-6-14 to 26-6-0, Exterior(2R) 26-6-0 to 33-6-14, Interior (1) 33-6-14 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- \* 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 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 13 SP No.2 crushing capacity of 565 psi.

- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 2. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 18,2024



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 151
P240644-01	B04	Hip	1	1	Job Reference (optional

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1032:210 ID:8ynemjizBJb7nuVEHjPJ\_KzX?VD-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7322017

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279676 LEE'S SUMMIT. MISSOURI

-0-10-8 26-1-4 36-10-8 3-4-4 11-6-0 7-5-12 15-9-9 20-2-7 24-6-0 30-11-15 36-0-0 1-7-4 3-4-4 4-1-8 4-0-4 4-3-9 4-4-13 4-3-9 4-10-11 5-0-1 0-10-8 5x5= 3x4= 3x4= 5x5= 5-4-12 4x6. 28 8 9 6 27 -24 10 <sub>5</sub>12 3x4 MT18HS 3x10 = 5-5-11 <sup>11</sup>29<sub>0</sub> 286 3x8≈ Z 🕞 22 21 20 19 18 3x8= MT18HS 3x10 = 3x4= 15 4x8= 3x4 II 4x8= MT18HS 6x12 = 4x8= 6x6= 5x10= MT18HS 10x18 = **\_1**4 12 0-5-8 26-0-0 3-5-8 7-5-12 11-4-12 18-0-0 24-7-4 30-11-15 36-0-0 3-0-0 4-0-4 3-11-0 6-7-4 4-11-15 5-0-1 0-5-8

#### Scale = 1:68

Plate Offsets (X, Y): [2:0-3-1,0-4-4], [13:Edge,0-2-4], [15:0-2-8,0-3-0], [17:0-5-8,Edge], [22:0-2-8,0-1-8], [23:0-11-14,Edge]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.42	19-20	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.78	19-20	>550	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.88	Horz(CT)	0.42	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 189 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP 1650F 1.5E \*Except\* 6-9:2x4 SP

No.2

2x4 SP 2400F 2.0E \*Except\* 10-16:2x3 SPF **BOT CHORD** 

No.2, 16-13:2x4 SP No.2, 21-17:2x4 SP

1650F 1.5E

WFBS 2x3 SPF No 2

1-6 SP 1650F 1.5E one side LBR SCAB **SLIDER** 

Left 2x4 SP No.2 -- 2-8-14, Right 2x4 SP

No.2 -- 2-7-13

BRACING

BOT CHORD

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

2-6-11 oc purlins, except

2-0-0 oc purlins (2-10-8 max.): 6-9. Rigid ceiling directly applied or 9-2-3 oc

bracing.

REACTIONS 2=0-5-8, 13=0-5-8 (size)

Max Horiz 2=97 (LC 12)

Max Uplift 2=-239 (LC 8), 13=-245 (LC 9)

Max Grav 2=1673 (LC 1), 13=1683 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=-3/0, 2-4=-6291/944, 4-5=-4291/685,

5-6=-3431/567, 6-7=-3094/543, 7-8=-3596/604, 8-9=-3081/538, 9-10=-3356/579, 10-11=-3577/594,

11-13=-3131/493, 13-14=0/4 **BOT CHORD** 

2-23=-828/5645, 22-23=-814/5630, 20-22=-547/3984, 19-20=-487/3562

18-19=-480/3557, 17-18=-411/3269, 16-17=0/101, 10-17=-53/239, 15-16=-17/226,

13-15=-386/2733

**WEBS** 

4-23=-201/1753, 5-20=-1016/256, 6-20=-127/1066, 9-18=-170/1070, 10-18=-404/184, 11-17=-77/611, 11-15=-449/148, 15-17=-377/2556 5-22=-19/401, 4-22=-1669/333,

7-19=-31/172, 7-20=-762/171, 8-19=-21/183, 8-18=-766/173

#### NOTES

- Attached 13-6-5 scab 1 to 6, front face(s) 2x4 SP 1650F 1.5E with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 2-7-11 from end at joint 1, nail 1 row(s) at 4" o.c. for 4-2-1; starting at 8-1-6 from end at joint 1, nail 1 row(s) at 7" o.c. for 2-0-0.
- 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 11-6-0, Exterior(2R) 11-6-0 to 18-6-14, Interior (1) 18-6-14 to 24-6-0, Exterior(2R) 24-6-0 to 31-6-14, Interior (1) 31-6-14 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- \* 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 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 13 SP No.2 crushing capacity of 565 psi.

- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 2. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 18,2024



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

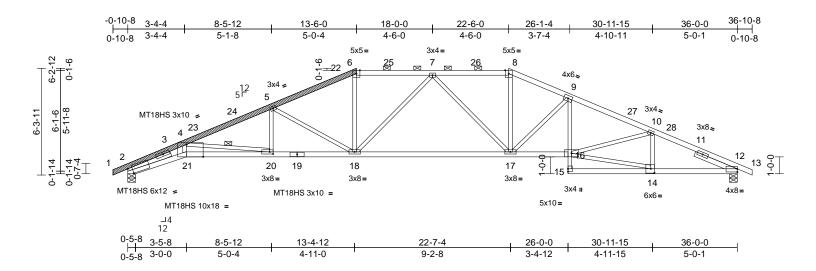


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151	
P240644-01	B05	Hip	1	1	Job Reference (optional	

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1052;20 ID:s8wrQy1vqc\_IX13QMuOea0zX?Uo-RfC?PsB70Hq3NSgPqnL8w3ulTXbG (WrCDolw42se) f

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
166279677
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:68

Plate Offsets (X, Y):	[2:0-3-1,0-4-4],	[12:Edge,0-2-4]	, [14:0-2-8,0-3-0],	, [20:0-2-8,0-1-8]	, [21:0-11-14,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.38	18	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.80	17-18	>536	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.43	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 191 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP 1650F 1.5E \*Except\* 6-8:2x4 SP

No.2

BOT CHORD 2x4 SP 2400F 2.0E \*Except\* 9-15:2x3 SPF

No.2, 15-12:2x4 SP No.2, 19-16:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2

LBR SCAB 1-6 SP 1650F 1.5E one side

SLIDER Left 2x4 SP No.2 -- 2-8-14, Right 2x4 SP

No.2 -- 2-7-13

BRACING
TOP CHORD Structural wood sheathing directly applied or

2-6-11 oc purlins, except

2-0-0 oc purlins (3-2-12 max.): 6-8.

BOT CHORD Rigid ceiling directly applied or 8-10-5 oc

bracing.
WEBS 1 Row a

1 Row at midpt 4-20

**REACTIONS** (size) 2=0-5-8, 12=0-5-8

Max Horiz 2=-113 (LC 17)

Max Uplift 2=-235 (LC 12), 12=-237 (LC 13) Max Grav 2=1673 (LC 1), 12=1683 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-3/0, 2-4=-6350/949, 4-5=-4062/666,

5-6=-3100/534, 6-7=-2775/518, 7-8=-2770/514, 8-9=-3060/538, 9-10=-3588/613, 10-12=-3131/491,

12-13=0/4

BOT CHORD 2-21=-886/5705, 20-21=-872/5693,

18-20=-522/3749, 17-18=-361/2969, 16-17=-436/3283, 15-16=0/101, 9-16=-49/366, 14-15=-8/192,

12-14=-384/2732

WEBS

4-21=-210/1788, 4-20=-1962/421, 5-20=-16/394, 5-18=-1104/311, 6-18=-96/905, 7-18=-453/127, 7-17=-457/120, 8-17=-145/012

7-17=-457/130, 8-17=-115/912, 9-17=-692/229, 10-16=-55/568,

9-17=-692/229, 10-16=-55/568, 10-14=-455/149, 14-16=-383/2590

### NOTES

- Attached 15-8-5 scab 1 to 6, front face(s) 2x4 SP 1650F 1.5E with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 2-7-11 from end at joint 1, nail 1 row(s) at 4" o.c. for 3-10-2; starting at 9-2-6 from end at joint 1, nail 1 row(s) at 7" o.c. for 2-0-0.
- Unbalanced roof live loads have been considered for this design.
- 3) 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 13-6-0, Exterior(2R) 13-6-0 to 20-6-14, Interior (1) 20-6-14 to 22-6-0, Exterior(2R) 22-6-0 to 29-6-14, Interior (1) 29-6-14 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
- 4) Provide adequate drainage to prevent water ponding.
- 5) 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
- 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 12 SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 10) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 2. This connection is for uplift only and does not consider lateral forces.
- 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.
- 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



June 18,2024





Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151	
P240644-01	B06	Hip	1	1	Job Reference (optional	

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1098:24 ID:VSeNx3AQ?IVbzt\_k3PcS4YzX?Uc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi<mark>.</mark>WrCDoi**y429** 

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279678 LEE'S SUMMIT. MISSOURI

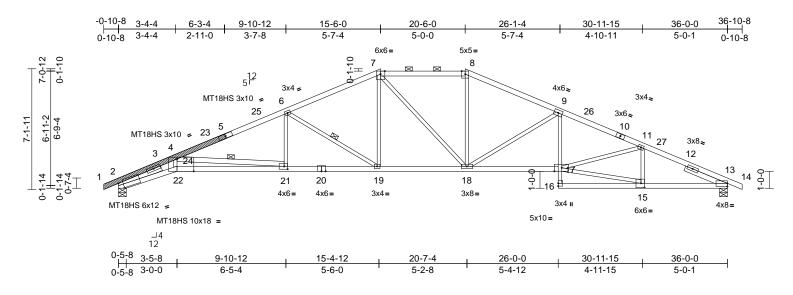


Plate Offsets (X, Y): [2:0-3-1,0-4-4], [13:Edge,0-2-4], [15:0-2-8,0-3-0], [17:0-5-4,Edge], [21:0-2-8,0-2-0], [22:0-11-14,Edge]

Looding	(nof)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	1/4	PLATES	GRIP
Loading	(psf)	Spacing	2-0-0	CSI		DELL	111	(IOC)	i/deli	L/u	PLATES	GKIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.39	21-22	>999	240	MT18HS	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.73	21-22	>589	180	MT20	197/144
BCLL	0.0*	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.44	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 184 lb	FT = 20%

LUMBER TOP CHORD

**BOT CHORD** 

2x4 SP 2400F 2.0E \*Except\* 7-8:2x4 SP

No.2

2x4 SP 2400F 2.0E \*Except\* 9-16:2x3 SPF No.2, 16-13,20-17:2x4 SP No.2

WEBS 2x3 SPF No.2 \*Except\* 21-4:2x4 SP No.2

LBR SCAB 1-5 SP 2400F 2.0E one side

SLIDER Left 2x4 SP No.2 -- 2-8-14, Right 2x4 SP

No.2 -- 2-7-13

**BRACING** 

**BOT CHORD** 

TOP CHORD

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (3-0-7 max.): 7-8. Rigid ceiling directly applied or 2-2-0 oc

bracing.

WEBS 1 Row at midpt 4-21, 6-19

REACTIONS 2=0-5-8, 13=0-5-8 (size)

Max Horiz 2=128 (LC 12)

Max Uplift 2=-254 (LC 12), 13=-256 (LC 13)

Max Grav 2=1673 (LC 1), 13=1683 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

1-2=-3/0, 2-4=-6559/1078, 4-6=-3780/601,

6-7=-2781/501, 7-8=-2485/491,

8-9=-2775/496, 9-11=-3609/595

11-13=-3128/467, 13-14=0/4 **BOT CHORD** 

2-22=-1081/5919, 21-22=-1064/5908, 19-21=-459/3470, 18-19=-244/2476,

17-18=-428/3318, 16-17=0/98, 9-17=-15/433,

15-16=-24/147, 13-15=-361/2725

4-22=-262/1873, 4-21=-2451/609, 6-21=0/463, 6-19=-1157/316, 7-19=-106/692

7-18=-217/239, 8-18=-48/653,

9-18=-966/277, 11-17=-67/601 11-15=-454/139. 15-17=-344/2629

NOTES

**WEBS** 

- Attached 7-10-5 scab 1 to 5, front face(s) 2x4 SP 2400F 2.0E with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 2-7-11 from end at joint 1, nail 1 row(s) at 3" o.c. for 5-2-11.
- 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 15-6-0, Exterior(2E) 15-6-0 to 20-6-0, Exterior(2R) 20-6-0 to 27-6-14, Interior (1) 27-6-14 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- \* 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 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 13 SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 2. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

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

LOAD CASE(S) Standard



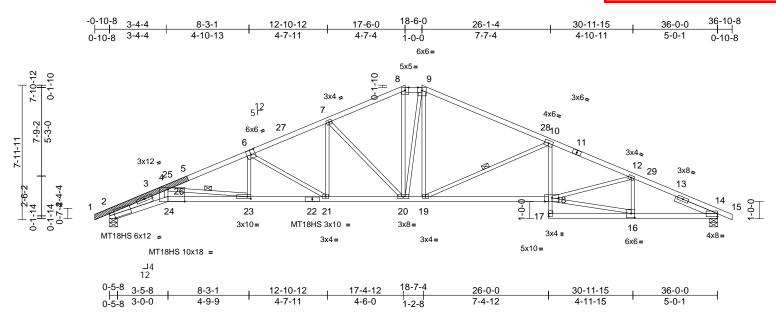




Job Truss Truss Type Qty Ply Roof - HR Lot 151 P240644-01 B07 Hip Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279679 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1 ID:dyxlgVKaxl8l1tUEKeLV5lzX?UP-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J



Scale = 1:68.2

Plate Offsets (X, Y): [2:0-3-1,0-4-4], [6:0-3-0,0-3-4], [14:Edge,0-2-4], [16:0-2-8,0-3-0], [18:0-5-4,Edge], [23:0-2-8,0-1-8], [24:0-11-14,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	0.98	Vert(LL)	-0.39	21-23	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.72	18-19	>597	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.44	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 186 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP 1650F 1.5E \*Except\* 8-9:2x4 SP

No.2

2x4 SP 2400F 2.0E \*Except\* 10-17:2x3 SPF **BOT CHORD** 

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

1650F 1.5E

WFBS 2x3 SPF No 2

1-5 SP 1650F 1.5E one side LBR SCAB **SLIDER** 

Left 2x4 SP No.2 -- 2-8-14, Right 2x4 SP

No.2 -- 2-7-13

BRACING TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (3-6-8 max.): 8-9. **BOT CHORD** Rigid ceiling directly applied or 7-8-11 oc

bracing WFBS

1 Row at midpt 10-19, 4-23

**REACTIONS** (size)

2=0-5-8, 14=0-5-8

Max Horiz 2=144 (LC 12)

Max Uplift 2=-271 (LC 12), 14=-274 (LC 13)

Max Grav 2=1673 (LC 1), 14=1683 (LC 1)

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

TOP CHORD 1-2=-3/0, 2-4=-6603/1155, 4-7=-4118/637,

7-8=-2453/442, 8-9=-2215/434, 9-10=-2537/427, 10-12=-3637/552,

12-14=-3119/454, 14-15=0/4

**BOT CHORD** 2-24=-1164/5968, 23-24=-1149/5955,

21-23=-609/3796, 20-21=-363/2830,

19-20=-163/2244, 18-19=-399/3370, 17-18=0/99, 10-18=0/465, 16-17=-39/138,

14-16=-336/2717

**WEBS** 

4-24=-294/1841, 8-20=-186/899, 9-20=-450/141, 9-19=-43/656, 10-19=-1226/352, 12-18=-70/647, 12-16=-458/130, 16-18=-303/2629,

7-20=-882/261, 6-23=-30/473, 4-23=-2181/545, 6-21=-1121/286,

7-21=-85/632

#### NOTES

- Attached 6-0-5 scab 1 to 5, front face(s) 2x4 SP 1650F 1.5E with 1 row(s) of 10d (0.131"x3") nails spaced 9" o.c.except: starting at 2-7-11 from end at joint 1, nail 1 row(s) at 4" o.c. for 3-0-1.
- 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 17-6-0, Exterior(2E) 17-6-0 to 18-6-0, Exterior(2R) 18-6-0 to 25-6-14, Interior (1) 25-6-14 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 14 SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 10) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 2. This connection is for uplift only and does not consider lateral forces.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





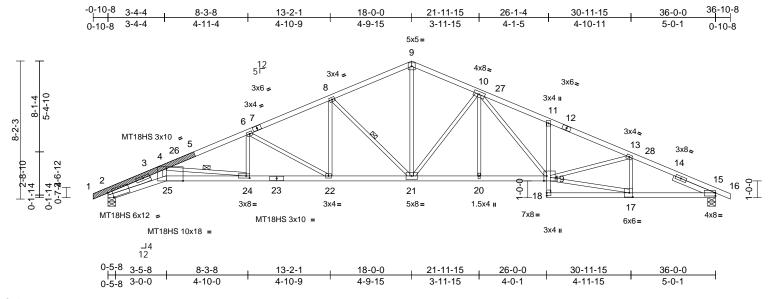
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151	
P240644-01	B08	Roof Special	2	1	Job Reference (optional	

DEVELOPMENT SERVICES 166279680 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1092:42 ID:OUPJMEQb2l8c\_65moJUNQ\_zX?UH-RfC?PsB70Hq3NSgPqnL8w3uITXt<mark>G</mark>KWrCD**-**/7**Q**JC?

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:68.3

Plate Offsets (X, Y): [2:0-3-1,0-4-4], [15:Edge,0	-2-4], [17:0-2-8,0-3-0], [19:0-2-0	,Edge], [24:0-2-8,0-1-8], [25:0-11-14,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.38	22	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.68	21-22	>630	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.42	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 185 lb	FT = 20%

#### LUMBER

**BOT CHORD** 

TOP CHORD 2x4 SP No.2 \*Except\* 1-7,12-16:2x4 SP

2400F 2.0E

2x4 SP 2400F 2.0E \*Except\* 11-18:2x3 SPF No.2, 18-15,23-19:2x4 SP No.2

WEBS 2x3 SPF No.2

LBR SCAB 1-5 SP 2400F 2.0E one side

SLIDER Left 2x4 SP No.2 -- 2-8-14, Right 2x4 SP

No.2 -- 2-7-13

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-2-1 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 7-5-14 oc

bracing

WEBS 1 Row at midpt 4-24, 8-21 2=0-5-8, 15=0-5-8

REACTIONS (size) Max Horiz 2=149 (LC 12)

Max Uplift 2=-275 (LC 12), 15=-277 (LC 13)

Max Grav 2=1673 (LC 1), 15=1683 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-3/0, 2-4=-6444/1145, 4-6=-4107/648,

6-8=-3106/511, 8-9=-2361/459, 9-10=-2348/461, 10-11=-3645/621

11-13=-3616/553, 13-15=-3134/470, 15-16=0/4

**BOT CHORD** 2-25=-1157/5802, 24-25=-1142/5788,

22-24=-626/3791, 21-22=-369/2794, 20-21=-273/2659, 19-20=-273/2659

18-19=0/99, 11-19=-366/176, 17-18=-17/157

15-17=-353/2733

WFBS 4-25=-295/1806, 13-19=-59/592,

13-17=-468/140, 17-19=-343/2629, 10-19=-266/1042, 6-24=-22/440, 4-24=-2017/521, 6-22=-1146/296, 8-22=-83/644, 8-21=-952/278,

9-21=-224/1459, 10-21=-881/249, 10-20=0/183

### NOTES

- Attached 6-6-13 scab 1 to 5, front face(s) 2x4 SP 2400F 2.0E with 1 row(s) of 10d (0.131"x3") nails spaced 9"
- 2) 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 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 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 15 SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15 and 2. This connection is for uplift only and does not consider lateral forces.
- 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



June 18,2024

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



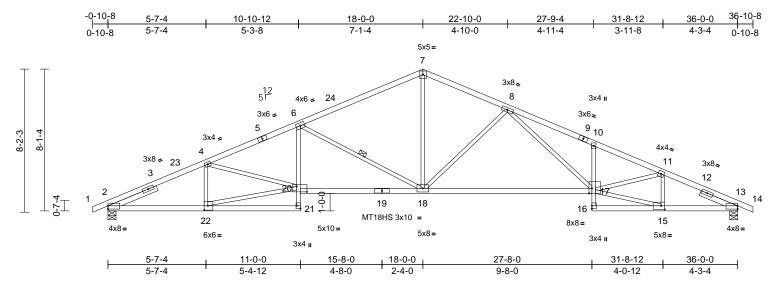
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151
P240644-01	B09	Roof Special	1	1	Job Reference (optional

DEVELOPMENT SERVICES 166279681 LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1 1922:2

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

ID:kSDCPyUktHnv4tzkbt4Z71zX?UC-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7



Scale = 1:65.9

Plate Offsets (X, Y): [2:Edge,0-2-4], [13:Edge,0-2-4], [15:0-2-8,0-2-8], [17:0-2-0,Edge], [20:0-7-0,0-3-12], [21:Edge,0-2-8], [22:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.33	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.80	17-18	>534	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.99	Horz(CT)	0.26	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 170 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP 1650F 1.5E

**BOT CHORD** 2x4 SP No.2 \*Except\* 21-6,10-16:2x3 SPF

No.2, 20-19,19-17:2x4 SP 1650F 1.5E 2x3 SPF No 2

**SLIDER** 

Left 2x4 SP No.2 -- 2-11-11, Right 2x4 SP

No.2 -- 2-3-0

**BRACING** 

WFBS

TOP CHORD Structural wood sheathing directly applied or

2-7-9 oc purlins.

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

bracing

WFBS 1 Row at midpt 6-18 2=0-5-8, 13=0-5-8

REACTIONS (size) Max Horiz 2=148 (LC 12)

Max Uplift 2=-277 (LC 12), 13=-277 (LC 13)

Max Grav 2=1677 (LC 1), 13=1677 (LC 1)

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

Tension

TOP CHORD 1-2=0/4. 2-4=-3131/464. 4-6=-3590/569.

6-7=-2404/433, 7-8=-2364/448,

8-10=-4047/653, 10-11=-3973/583,

11-13=-3060/462, 13-14=0/4 2-22=-489/2732, 21-22=-29/149,

**BOT CHORD** 20-21=0/103, 6-20=-54/599,

18-20=-508/3301, 17-18=-311/2737,

16-17=0/85, 10-17=-375/176, 15-16=-50/77,

13-15=-350/2658

**WEBS** 4-22=-491/178, 20-22=-471/2644,

4-20=-65/572, 6-18=-1338/396,

7-18=-164/1375, 8-18=-865/306, 8-17=-248/1308, 11-17=-93/1025

11-15=-633/140, 15-17=-309/2662

**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 22-10-0, Interior (1) 22-10-0 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
- 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



June 18,2024



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



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151
P240644-01	B10	Roof Special	2	1	Job Reference (optional)

LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 17 1922:243 ID:VFJ?4WLDx8n\_Zeb8Vc2ewYzX0FR-RfC?PsB70Hq3NSgPqnL8w3uITXb0KWrCDoirJ4z

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279682

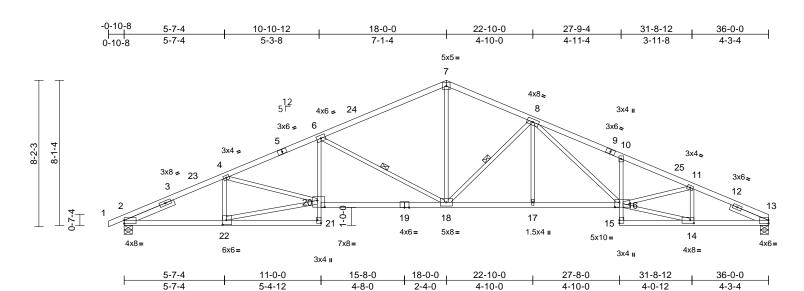


Plate Offsets (X, Y): [2:Edge,0-2-4], [13:Edge,0-2-4], [14:0-2-8,0-2-0], [16:0-3-0,0-3-4], [20:0-5-0,0-4-8], [21:Edge,0-2-8], [22:0-2-8,0-3-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.30	17-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.55	18-20	>780	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.27	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 172 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP 1650F 1.5E

**BOT CHORD** 2x4 SP No.2 \*Except\* 21-6,10-15:2x3 SPF

No.2

WFBS 2x3 SPF No 2

**SLIDER** Left 2x4 SP No.2 -- 2-11-11, Right 2x4 SP

No.2 -- 2-3-0

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

2-7-0 oc purlins.

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

bracing

WFBS 1 Row at midpt 8-18, 6-18 REACTIONS (size) 2=0-5-8, 13=0-5-8

Max Horiz 2=149 (LC 12)

Max Uplift 2=-278 (LC 12), 13=-249 (LC 13) Max Grav 2=1678 (LC 1), 13=1598 (LC 1)

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

Tension

TOP CHORD 1-2=0/4, 2-4=-3133/464, 4-6=-3600/574,

6-7=-2389/442, 7-8=-2348/461, 8-10=-4021/687, 10-11=-3960/613,

11-13=-3079/475

**BOT CHORD** 2-22=-490/2735, 21-22=-37/129,

20-21=0/102, 6-20=-45/623, 18-20=-507/3313, 17-18=-297/2786, 16-17=-297/2786, 15-16=0/87, 10-16=-370/176, 14-15=-28/153

13-14=-367/2679

WEBS 4-22=-495/176, 20-22=-464/2668, 4-20=-65/579, 8-16=-292/1205,

11-16=-99/992, 11-14=-616/149 14-16=-350/2605, 7-18=-171/1363,

8-18=-955/273, 6-18=-1368/385, 8-17=0/208

### 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 22-10-0, Interior (1) 22-10-0 to 35-9-4 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
- 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





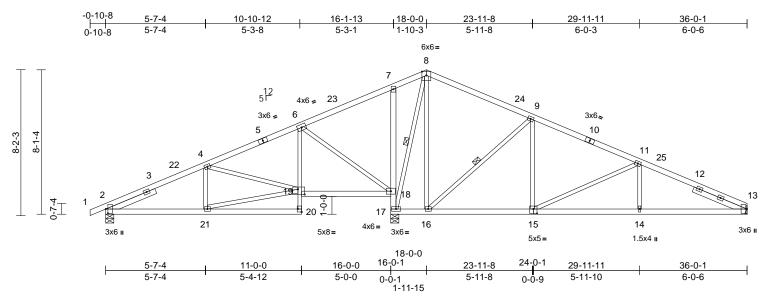


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151
P240644-01	B11	Roof Special	3	1	Job Reference (optional)

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279683 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/19/20 ID:9ayBAbxx9fRf0ZIrF8EE7qzX?Td-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV



Scale = 1:64.7

Plate Offsets (X, Y): [2:0-3-0,0-1-6], [13:0-3-0,0-0-14], [15:0-2-8,0-3-0], [19:0-4-8,0-3-8], [20:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53	Vert(LL)	-0.05	14-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.10	14-15	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.85	Horz(CT)	-0.02	17	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 182 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 20-6:2x3 SPF No.2

2x3 SPF No.2 WEBS

**SLIDER** Left 2x4 SP No.2 -- 2-11-11, Right 2x4 SP

No 2 -- 3-2-7

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

4-10-12 oc purlins.

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

bracing, Except: 5-9-13 oc bracing: 17-18

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

WFBS 1 Row at midpt 9-16. 8-17

REACTIONS (size) 2=0-5-8, 13= Mechanical, 17=0-5-8

Max Horiz 2=149 (LC 16)

Max Uplift 2=-165 (LC 12), 13=-222 (LC 13),

17=-205 (LC 12)

Max Grav 2=702 (LC 25), 13=826 (LC 26),

17=1810 (LC 1)

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

Tension TOP CHORD

1-2=0/4, 2-4=-1004/240, 4-6=-556/242,

6-7=0/399, 7-8=0/349, 8-9=-151/262,

9-11=-840/353, 11-13=-1450/424 BOT CHORD 2-21=-274/827, 20-21=-14/35, 19-20=0/91,

6-19=-32/379, 18-19=-164/455,

17-18=-856/282, 7-18=-314/171,

16-17=-73/64, 14-16=-308/1254, 13-14=-308/1254

**WEBS** 4-21=-59/132, 19-21=-266/811,

4-19=-409/114, 6-18=-827/265,

8-16=-138/709, 9-16=-871/268, 9-15=-6/423,

11-15=-610/189, 11-14=0/248, 8-17=-1041/45

- 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 35-11-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearings are assumed to be: Joint 2 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 222 lb uplift at ioint 13.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 17. This connection is for uplift only and does not consider lateral forces
- 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



June 18,2024



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

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

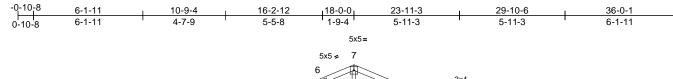


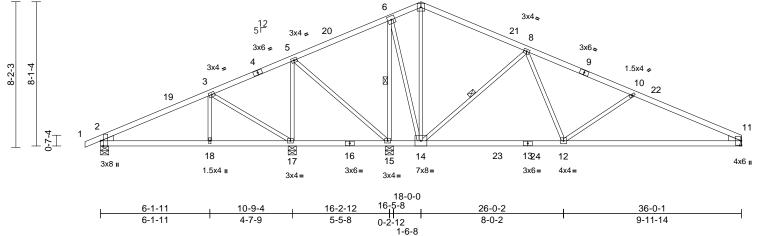
Ply Job Truss Truss Type Qty Roof - HR Lot 151 P240644-01 B12 Common Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279684 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/10 ID:jdjxm0OHM10rtlKseGNqrezX?QS-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7





Scale = 1:64.7

Plate Offsets (X, Y): [2:0-3-8,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	0.57	Vert(LL)	-0.25	11-12	>962	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.52	11-12	>459	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.02	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 163 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 13-11:2x4 SP 1650F

1.5E

WFBS 2x3 SPF No 2 WEDGE Left: 2x4 SP No.2 Right: 2x4 SP No.2

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

4-0-3 oc purlins.

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

bracing.

WFBS 1 Row at midpt 6-15. 8-14

REACTIONS (size) 2=0-5-8, 11= Mechanical,

15=0-5-8, 17=0-5-8 Max Horiz 2=149 (LC 12)

2=-81 (LC 12), 11=-155 (LC 13), Max Uplift

15=-258 (LC 13), 17=-171 (LC 12)

Max Grav 2=458 (LC 25), 11=798 (LC 28), 15=1525 (LC 2), 17=750 (LC 27)

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

Tension TOP CHORD

1-2=0/4, 2-3=-430/66, 3-5=-53/364, 5-6=-5/429, 6-7=-17/155, 7-8=-8/191, 8-10=-956/207, 10-11=-1278/311

**BOT CHORD** 2-18=-99/313, 17-18=-99/313,

15-17=-278/173, 14-15=-340/254

12-14=0/584. 11-12=-211/1116

3-18=0/234, 3-17=-604/188, 5-17=-350/136,

WFBS 6-15=-1325/235, 6-14=-145/1001,

7-14=-280/33, 8-14=-889/280, 8-12=-30/649

10-12=-442/257, 5-15=-129/108

#### 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 23-0-0, Interior (1) 23-0-0 to 35-11-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2 SP No.2 crushing capacity of 565 psi, Joint 17 SP No.2 crushing capacity of 565 psi, Joint 15 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 155 lb uplift at joint 11.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2, 17, and 15. This connection is for uplift only and does not consider lateral forces.
- 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





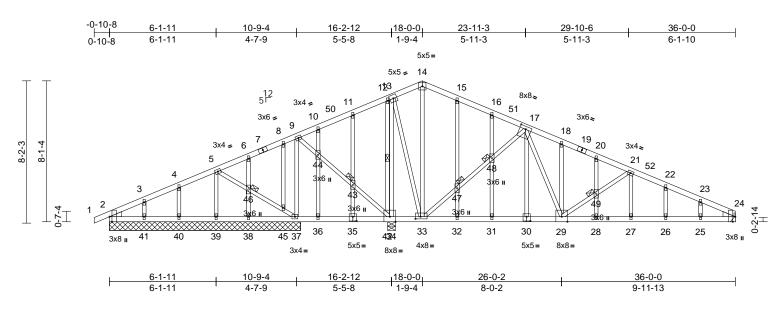
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151
P240644-01	B13	Common Structural Gable	1	1	Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279685 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/1922:28 ID:YPFmRxi1wCdWqMaczyJ9EQzX?Om-RfC?PsB70Hq3NSgPqnL8w3uITXI GKWrCDef7342JC



Scale = 1:66.3

Plate Offsets (X, Y): [2:0-3-8,Edge], [17:0-4-0,0-2-0], [24:0-3-8,Edge], [30:0-2-8,0-3-0], [33:0-3-8,0-1-8], [35:0-2-8,0-3-0]

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	0.36	Vert(LL)	-0.06	31-32	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.49	Vert(CT)	-0.11	31-32	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 209 lb	FT = 20%

LUMBER TOP CHORD

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

WEDGE Left: 2x4 SP No.2 Right: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-0-14 oc purlins.

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

bracing.

WEBS 1 Row at midpt 13-34 **JOINTS** 1 Brace at Jt(s): 43,

46, 47, 48, 49

REACTIONS (size) 2=11-0-0, 24= Mechanical,

34=0-5-8, 37=11-0-0, 38=11-0-0, 39=11-0-0, 40=11-0-0, 41=11-0-0

Max Horiz 2=149 (LC 12)

Max Uplift 2=-32 (LC 13), 24=-161 (LC 13),

34=-225 (LC 13), 37=-87 (LC 12), 38=-36 (LC 12), 39=-17 (LC 12), 40=-53 (LC 12), 41=-74 (LC 12)

Max Grav 2=156 (LC 25), 24=771 (LC 26),

34=1524 (LC 1), 37=304 (LC 25), 38=129 (LC 25), 39=172 (LC 25),

40=184 (LC 25), 41=186 (LC 1)

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

1-2=0/4. 2-3=-123/99. 3-4=-68/98.

4-5=-41/108, 5-6=-36/148, 6-8=-11/155, 8-9=0/168, 9-10=0/297, 10-11=0/324, 11-12=0/360, 12-13=0/253, 13-14=-35/153,

14-15=-22/150, 15-16=-19/111, 16-17=-16/83, 17-18=-784/271

18-20=-802/241, 20-21=-834/210 21-22=-1208/300, 22-23=-1240/271,

23-24=-1332/245

BOT CHORD

**WEBS** 

2-41=-56/117, 40-41=-56/117, 39-40=-56/117, 3) 38-39=-56/117, 37-38=-56/117,

36-37=-133/175, 34-36=-133/175,

33-34=-285/237, 32-33=-6/596, 31-32=-6/596, 29-31=-6/596,

28-29=-178/1115, 27-28=-178/1115,

26-27=-178/1115, 25-26=-178/1115,

24-25=-178/1115

17-29=-125/421, 29-49=-485/169. 21-49=-464/163. 5-39=-118/33.

9-37=-127/90, 13-34=-912/142,

14-33=-227/0, 13-33=-158/930, 9-44=-238/87. 43-44=-244/86.

42-43=-226/86, 34-42=-438/121

5-46=-90/68, 45-46=-92/67, 37-45=-90/70,

33-47=-888/271, 47-48=-864/265,

17-48=-828/253, 12-42=-291/58,

11-43=-64/65, 35-43=-89/65, 10-44=-33/32,

36-44=-29/33, 8-45=0/10, 6-46=-130/78,

38-46=-129/80, 4-40=-146/81, 3-41=-143/97,

15-47=-80/66, 32-47=-44/57, 16-48=-86/67,

31-48=-30/53, 17-30=-28/168, 18-29=-92/55,

20-49=-72/58, 28-49=-35/47, 21-27=-22/158,

22-26=-47/49, 23-25=0/89

NOTES

Unbalanced roof live loads have been considered for 1)

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-0-1, Interior (1) 4-0-1 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

- 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 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.
- Bearings are assumed to be: Joint 41 SP No.2 crushing capacity of 565 psi, Joint 34 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 161 lb uplift at joint 24.



June 18,2024

Continued on page 2

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



Ply Job Truss Truss Type Qty Roof - HR Lot 151 P240644-01 B13 Common Structural Gable Job Reference (optional RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279685 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1022: 401/2024

ID:YPFmRxi1wCdWqMaczyJ9EQzX?Om-RfC?PsB70Hq3NSgPqnL8w3ulTX GKWrCbeir522.0.

11) N/A

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



Ply Job Truss Truss Type Qty Roof - HR Lot 151 P240644-01 C01 Common Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279686 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/1 ID:ecAc55ksHZeRkNDNEj\_heBzX05v-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi



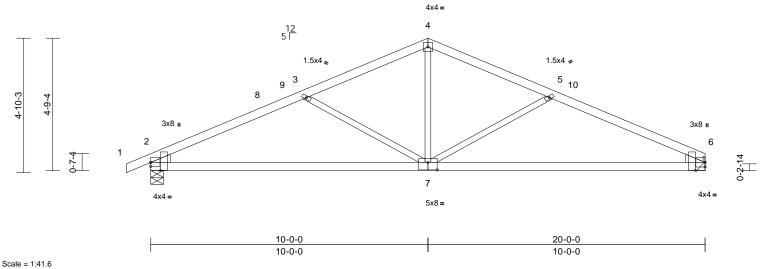


Plate Offsets (X, Y): [2:Edge,0-1-12], [2:0-3-7,Edge], [6:0-3-8,Edge], [7:0-4-0,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.20	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.43	6-7	>550	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.04	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%

#### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP 1650F 1.5E 2x3 SPF No.2 WEBS WEDGE Left: 2x4 SP No 2 Right: 2x4 SP No.2

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

3-10-5 oc purlins.

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

bracing

REACTIONS (size) 2=0-5-8, 6= Mechanical

Max Horiz 2=87 (LC 12)

Max Uplift 2=-165 (LC 12), 6=-137 (LC 13)

Max Grav 2=963 (LC 1), 6=881 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=0/4, 2-3=-1533/419, 3-4=-1183/303,

4-5=-1183/309, 5-6=-1549/422

BOT CHORD 2-6=-320/1350

WEBS 3-7=-380/236, 4-7=-97/593, 5-7=-402/247

#### NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 15-0-0, Interior (1) 15-0-0 to 19-10-4 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
- 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 2 SP 1650F 1.5E 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 137 lb uplift at joint 6.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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



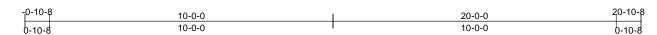


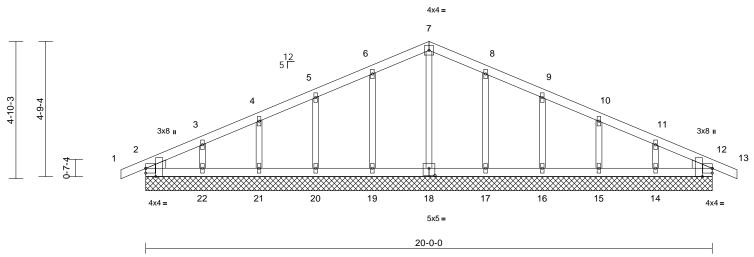
Job Truss Truss Type Qty Ply Roof - HR Lot 151 P240644-01 C02 Common Supported Gable Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279687 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/192:24 ID:xy6FaUpFdjWR4SFj8hcKQfzX05o-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7





Scale = 1:40.7

Plate Offsets (X, Y): [2:0-3-7,Edge], [12:0-3-7,Edge], [18:0-2-8,0-3-0]

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 84 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 BOT CHORD OTHERS 2x3 SPF No.2 WFDGF Left: 2x4 SP No 2 Right: 2x4 SP No.2

**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)

2=20-0-0, 12=20-0-0, 14=20-0-0, 15=20-0-0, 16=20-0-0, 17=20-0-0, 18=20-0-0, 19=20-0-0, 20=20-0-0,

21=20-0-0, 22=20-0-0 Max Horiz 2=85 (LC 12)

Max Uplift 2=-24 (LC 8), 12=-27 (LC 9),

14=-65 (LC 13), 15=-53 (LC 13), 16=-55 (LC 13), 17=-56 (LC 13), 19=-57 (LC 12), 20=-55 (LC 12), 21=-54 (LC 12), 22=-70 (LC 12)

Max Grav 2=157 (LC 1), 12=157 (LC 1),

14=181 (LC 26), 15=180 (LC 26), 16=179 (LC 1), 17=190 (LC 26), 18=156 (LC 1), 19=190 (LC 25), 20=179 (LC 1), 21=180 (LC 25),

22=181 (LC 25)

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

Tension TOP CHORD

1-2=0/4, 2-3=-101/50, 3-4=-66/60, 4-5=-45/82, 5-6=-47/126, 6-7=-63/171

7-8=-63/171, 8-9=-47/126, 9-10=-42/81, 10-11=-42/28, 11-12=-72/24, 12-13=0/4

**BOT CHORD** 2-22=-20/92, 21-22=-20/92, 20-21=-20/92, 19-20=-20/92, 17-19=-20/92, 16-17=-20/92, 15-16=-20/92, 14-15=-20/92, 12-14=-20/92 **WEBS** 

7-18=-116/0, 6-19=-150/95, 5-20=-138/95, 4-21=-141/115, 3-22=-138/153, 8-17=-150/94, 9-16=-138/95, 10-15=-141/115, 11-14=-138/151

### 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 Corner(3E) -0-10-8 to 4-0-0, Exterior(2N) 4-0-0 to 10-0-0, Corner(3R) 10-0-0 to 15-0-0, Exterior(2N) 15-0-0 to 20-10-8 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 DOI =1 60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 2, 27 lb uplift at joint 12, 57 lb uplift at joint 19, 55 lb uplift at joint 20, 54 lb uplift at joint 21, 70 lb uplift at joint 22, 56 lb uplift at joint 17, 55 lb uplift at joint 16, 53 lb uplift at joint 15 and 65 lb uplift at joint 14.

- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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

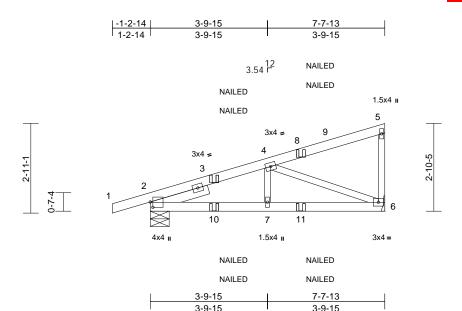




Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151
P240644-01	CJ01	Diagonal Hip Girder	2	1	Job Reference (optional

DEVELOPMENT SERVICES 166279688 LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1032:240 ID:IUaHFDwGIAXJ1hsFcMICILzX05g-RfC?PsB70Hq3NSqPqnL8w3ulTXbGkWrCDoi732.07 ID:iUaHFDwGIAXJ1hsFcMlClLzX05g-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:37.6

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

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	0.26	Vert(LL)	0.01	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 20%

#### LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-11-5

BRACING

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

BOT CHORD Rigid ceiling directly applied or 9-1-6 oc

bracing.

**REACTIONS** (size) 2=0-7-6, 6= Mechanical

Max Horiz 2=120 (LC 11)

Max Uplift 2=-139 (LC 8), 6=-104 (LC 12)

Max Grav 2=435 (LC 1), 6=336 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=0/4, 2-4=-581/328, 4-5=-97/76,

5-6=-112/128

BOT CHORD 2-7=-417/494, 6-7=-417/494

**WEBS** 4-7=0/192, 4-6=-530/419

#### 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 7-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2 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 104 lb uplift at ioint 6.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-5=-70, 2-6=-20

Concentrated Loads (lb) Vert: 11=-6 (F=-3, B=-3)



June 18,2024



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

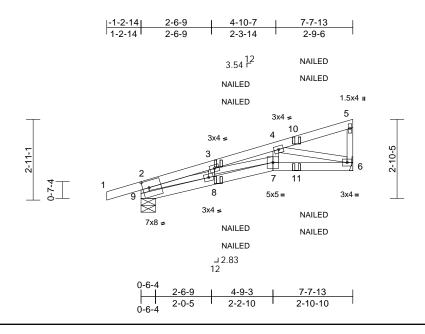


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151	
P240644-01	CJ02	Diagonal Hip Girder	1	1	Job Reference (optional)	

DEVELOPMENT SERVICES 166279689 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1705 2:24 ID:MB3EHxIHT6XNq7E1orQsp?zX0Bd-RfC?PsB70Hq3NSgPqnL8w3uITXbCkWrCDord4207t



Scale = 1:41.6

Plate Offsets (X, Y): [9:0-2-12,0-3-0]

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	0.28	Vert(LL)	0.04	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.06	7-8	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.31	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%

#### LUMBER

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

2x3 SPF No.2 \*Except\* 9-2:2x4 SP No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-5-9 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

REACTIONS 6= Mechanical, 9=0-6-4 (size)

Max Horiz 9=110 (LC 9)

Max Uplift 6=-111 (LC 12), 9=-142 (LC 8)

Max Grav 6=436 (LC 1), 9=477 (LC 1)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD

2-9=-435/413, 1-2=0/27, 2-3=-972/567, 3-4=-1091/663, 4-5=-67/55, 5-6=-91/99

BOT CHORD 8-9=-269/114, 7-8=-734/932, 6-7=-706/980

**WEBS** 

4-7=-184/386, 4-6=-1017/710, 3-7=-71/134,

3-8=-154/145, 2-8=-456/900

#### NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 7-6-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 9 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 142 lb uplift at joint 9 and 111 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

### LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 2-5=-70, 7-9=-20, 6-7=-20

Concentrated Loads (lb)

Vert: 8=3 (F=2, B=2), 11=-153 (F=-76, B=-76)



June 18,2024



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

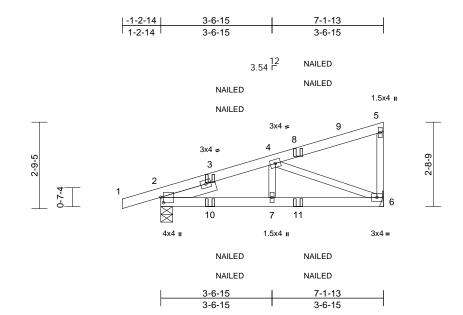
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151
P240644-01	CJ03	Diagonal Hip Girder	2	1	Job Reference (optional

LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 10:34 ID:IJfa8p7t;?VeVXqb8PCfKirzX0Bs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW CDoi7J4AcC.

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279690



Scale = 1:37

Plate Offsets	(X,	Y):	[2:0-2-2,0-1-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	0.01	7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.02	2-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.17	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 20%

#### LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-9-12

BRACING

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

BOT CHORD Rigid ceiling directly applied or 9-4-14 oc

bracing.

**REACTIONS** (size) 2=0-4-9, 6= Mechanical

Max Horiz 2=113 (LC 28)

Max Uplift 2=-132 (LC 8), 6=-90 (LC 12)

Max Grav 2=412 (LC 1), 6=310 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=0/4, 2-4=-526/307, 4-5=-92/74,

5-6=-106/122 BOT CHORD

2-7=-392/443, 6-7=-392/443

WEBS 4-7=0/170, 4-6=-475/394

#### 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 7-0-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2 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 90 lb uplift at joint
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

#### LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft)

Vert: 1-5=-70, 2-6=-20

Concentrated Loads (lb) Vert: 11=0 (F=0, B=0)

> OF MISS SCOTT M. SEVIER NUMBER PE-2001018807 SSIONAL

June 18,2024



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 151	
P240644-01	E01	Hip Girder	1	2	Job Reference (optional)	

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1092:244 ID:e37lzTKXH7MGf9drEaNiG0zX06R-RfC?PsB70Hq3NSgPqnL8w3ulTXbGr WrCDoi 14259 MiTek Industries (Inc. Non Jun 1092):244

17-3-0

4-1-11

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279691 LEE'S SUMMIT. MISSOURI

5-1-12 9-2-3 13-1-5 17-1-12 22-3-8 5-1-12 4-0-7 3-11-3 4-0-7 5-1-12 NAILED NAILED NAILED NAILED NAILED NAILED NAILED 12 5 F 6x6 = 3x4 =1.5x4 II 6x6 = 0-1-10 3 16 18 6 20 3x8 II 3x8 II 2 22 9 13 21 12 23 11 10 4x4 4x4 1.5x4 II 3x4 = 3x8 = 1.5x4 II NAILED NAILED Special 3x4 =NAILED Special NAILED NAILED

13-1-5

3-11-3

Scale = 1:44.7

2-9-14

2-7-6 2-7-6

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

5-0-8

5-0-8

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	0.71	Vert(LL)	-0.12	10-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.22	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 181 lb	FT = 20%

9-2-3

4-1-11

#### LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS Left: 2x4 SP No 2 WEDGE Right: 2x4 SP No.2

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (5-9-1 max.): 3-6.

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

bracing.

REACTIONS (size) 2=0-3-8, 7=0-3-8

Max Horiz 2=46 (LC 12)

Max Uplift 2=-484 (LC 8), 7=-484 (LC 9) Max Grav 2=1780 (LC 1), 7=1780 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/4, 2-3=-3560/1040, 3-4=-4280/1313,

4-5=-4273/1309, 5-6=-4277/1312,

6-7=-3560/1041, 7-8=0/4 **BOT CHORD** 2-13=-868/3146, 12-13=-867/3127

10-12=-1216/4276, 9-10=-869/3127,

7-9=-870/3146

WEBS 3-13=-32/439, 3-12=-417/1405,

4-12=-575/296, 4-10=-38/32, 5-10=-556/295,

6-10=-415/1401, 6-9=-32/440

### 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: 2x4 - 1 row at

Web connected as follows: 2x3 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00: Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-1-12, Exterior(2R) 5-1-12 to 12-2-10, Interior (1) 12-2-10 to 17-1-12, Exterior(2E) 17-1-12 to 23-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at it(s) 2 and 7. This connection is for uplift only and does not consider lateral forces.
- 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) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 311 lb down and 90 lb up at 5-1-12, and 311 lb down and 90 lb up at 17-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

22-3-8

5-0-8

### LOAD CASE(S) Standard

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

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

Concentrated Loads (lb)

Vert: 3=-95 (F), 6=-95 (F), 13=-311 (F), 12=-29 (F), 4=-95 (F), 5=-95 (F), 10=-29 (F), 9=-311 (F), 15=-95 (F), 17=-95 (F), 19=-95 (F), 21=-29 (F), 22=-29 (F), 23=-29 (F)





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

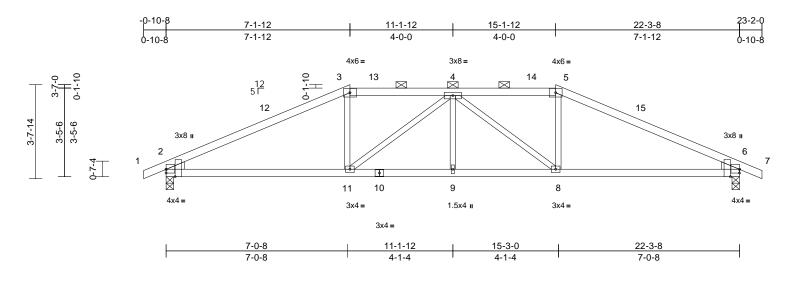


Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151	_
P240644-01	E02	Hip	1	1	Job Reference (optional	

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279692 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1 1992: 24 ID:L\_kX3uRoxBcrshOmqgZ2g7zX06H-RfC?PsB70Hq3NSgPqnL8w3uITXbG\_kWrCDoin-4292



Scale = 1:44.8

Plate Offsets (X, Y): [2:Edge,0-1-12], [2:0-3-7,Edge], [6:Edge,0-1-12], [6:0-3-7,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	0.72	Vert(LL)	-0.08	9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.19	2-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 88 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E \*Except\* 3-5:2x4 SP TOP CHORD

No.2

**BOT CHORD** 2x4 SP No.2 2x3 SPF No 2 WFBS WEDGE Left: 2x4 SP No 2

Right: 2x4 SP No.2

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-4-13 oc purlins, except

2-0-0 oc purlins (4-5-15 max.): 3-5 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=-62 (LC 13)

Max Uplift 2=-162 (LC 8), 6=-162 (LC 9) Max Grav 2=1061 (LC 1), 6=1061 (LC 1)

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

Tension

1-2=0/4. 2-3=-1797/346. 3-4=-1532/367. 4-5=-1532/367, 5-6=-1797/346, 6-7=0/4

BOT CHORD 2-11=-236/1541. 9-11=-269/1721.

8-9=-269/1721, 6-8=-226/1541

3-11=0/380, 5-8=0/380, 4-11=-383/80,

4-8=-383/80, 4-9=0/82

# WEBS NOTES

TOP 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 Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-1-12, Exterior(2R) 7-1-12 to 14-2-10, Interior (1) 14-2-10 to 15-1-12, Exterior(2R) 15-1-12 to 22-1-12, Interior (1) 22-1-12 to 23-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 6. This connection is for uplift only and does not consider lateral forces.
- 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



June 18,2024



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



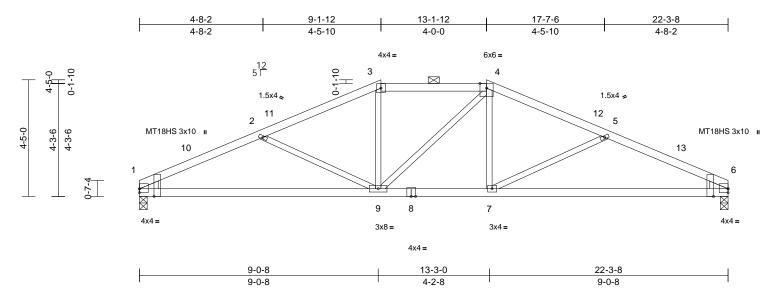
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151	Г
P240644-01	E03	Hip	1	1	Job Reference (optional)	

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279693 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/1922:24 ID:ajmxyzYSpylZR4aUs3D9X0zX068-RfC?PsB70Hq3NSgPqnL8w3ulTXbGkWrCDoi7



Scale = 1:43.6

Plate Offsets (X, Y): [1:Edge,0-1-12], [1:0-3-7,Edge], [6:Edge,0-1-12], [6:0-3-7,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	0.50	Vert(LL)	-0.20	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.43	6-7	>612	180	MT18HS	244/190
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.06	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 89 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS Left: 2x4 SP No 2 WEDGE Right: 2x4 SP No.2

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-11-3 oc purlins, except

2-0-0 oc purlins (4-9-6 max.): 3-4. **BOT CHORD** Rigid ceiling directly applied or 9-9-0 oc

bracing.

REACTIONS (size) 1=0-3-8, 6=0-3-8

Max Horiz 1=-76 (LC 13)

Max Uplift 1=-137 (LC 12), 6=-137 (LC 13) Max Grav 1=990 (LC 1), 6=990 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1820/424, 2-3=-1521/322, 3-4=-1341/327, 4-5=-1520/322,

5-6=-1820/424

**BOT CHORD** 1-9=-337/1596, 7-9=-160/1341,

6-7=-331/1595

WEBS 2-9=-297/218, 3-9=-9/297, 4-9=-141/142,

4-7=-14/297, 5-7=-298/218

#### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 9-1-12, Exterior(2E) 9-1-12 to 13-1-12, Éxterior(2R) 13-1-12 to 20-2-10, Interior (1) 20-2-10 to 22-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 6. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



June 18,2024



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

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



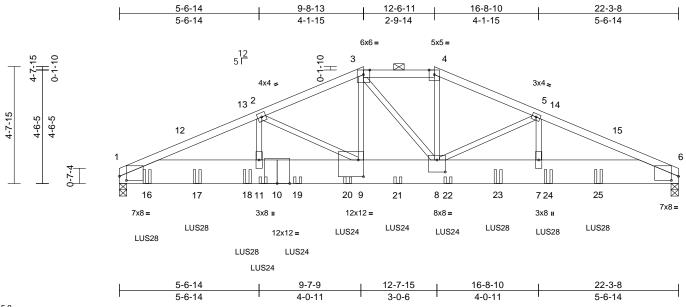
Ply Job Truss Truss Type Qty Roof - HR Lot 151 P240644-01 E04 Hip Girder 2 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279694 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1 ID:xQy3?rr6h5Nd1JSaCZ\_8mFzX?Ki-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7



Scale = 1:45.9

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	I /d	PLATES	GRIP
TCLL (roof)	\(\(\mathrea{\pi}\)	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.16	9-11	>999		MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.28	9-11	>955	180	20	21.7.00
BCLL	0.0*	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		, ,					Weight: 322 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x12 SP 2400F 2.0E 2x3 SPF No.2 WEBS

**BRACING** 

**BOT CHORD** 

**BOT CHORD** 

TOP CHORD Structural wood sheathing directly applied or

2-11-6 oc purlins, except

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

bracing.

**REACTIONS** (size) 1=0-3-8, 6=0-3-8

Max Horiz 1=-75 (LC 34)

Max Uplift 1=-1187 (LC 12), 6=-1089 (LC 13)

Max Grav 1=5985 (LC 1), 6=4741 (LC 1)

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

Tension

TOP CHORD 1-2=-10232/2195, 2-3=-8340/1899, 3-4=-7584/1802, 4-5=-8313/1934,

5-6=-9225/2183

1-11=-1977/9354, 9-11=-1977/9354,

8-9=-1615/7608. 7-8=-1958/8427.

6-7=-1958/8427

WFBS 2-11=-219/1552, 2-9=-1963/428,

3-9=-582/2893, 3-8=-167/73, 4-8=-641/2845,

5-8=-930/379, 5-7=-237/663

#### NOTES

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

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

Bottom chords connected as follows: 2x12 - 2 rows staggered at 0-3-0 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
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 9-8-13, Exterior(2E) 9-8-13 to 12-6-11, Exterior(2R) 12-6-11 to 19-7-9, Interior (1) 19-7-9 to 22-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1187 lb uplift at joint 1 and 1089 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Use Simpson Strong-Tie LUS28 (6-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 10-0-0 oc max. starting at 1-1-4 from the left end to 19-1-4 to connect truss(es) to back face of bottom chord.
- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 5-8-12 from the left end to 13-1-4 to connect truss(es) to back face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.

### LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 1-6=-20

Concentrated Loads (lb)

Vert: 11=-751 (B), 16=-861 (B), 17=-861 (B),

18=-861 (B), 19=-749 (B), 20=-749 (B), 21=-749 (B), 22=-749 (B), 23=-806 (B), 24=-806 (B), 25=-806 (B)



June 18,2024

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 151 P240644-01 J01 Jack-Open Job Reference (optional

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

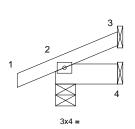
DEVELOPMENT SERVICES 166279695 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1032:25 ID:2yScrsnE8PfFjmcpPO9JiRzX0Db-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\_VrCDoi7J42J54

-0-10-8	1-4-15
0-10-8	1-4-15







1-4-15

Scale = 1:26.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	0.00	2	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	2-4	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

1-4-15 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4=

Mechanical

Max Horiz 2=40 (LC 12)

Max Uplift 2=-40 (LC 8), 3=-23 (LC 12) Max Grav 2=147 (LC 1), 3=25 (LC 1), 4=27

(LC 3)

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

Tension TOP CHORD 1-2=0/10, 2-3=-35/21

BOT CHORD 2-4=0/0

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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 2 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint

- 7) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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



June 18,2024



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 151 P240644-01 J02 Jack-Open Job Reference (optional

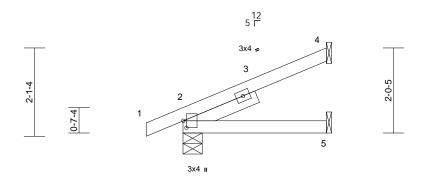
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279696 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1098:24 ID:AxdC002PqkTASXGSCpAoGSzX?mr-RfC?PsB70Hq3NSgPqnL8w3uITXtGKWrCDe/1920c?

-0-10-8	3-4-15
0-10-8	3-4-15



3-4-15

Plate Offsets (X, Y): [2:0-2-0,0-0-14]

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	-0.01	2-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-10-2

**BRACING** 

Structural wood sheathing directly applied or TOP CHORD

3-4-15 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=76 (LC 12)

Max Uplift 2=-44 (LC 12), 4=-64 (LC 12) Max Grav 2=231 (LC 1), 4=96 (LC 1), 5=62

(LC 3)

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

Tension

TOP CHORD 1-2=0/4, 2-4=-72/34

BOT CHORD 2-5=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 2 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 64 lb uplift at joint
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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



June 18,2024



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 151 P240644-01 J03 Jack-Open 3 Job Reference (optional

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

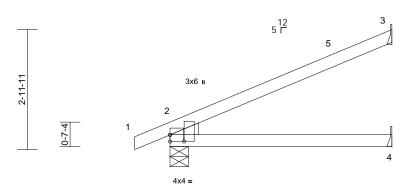
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/192:25 ID:L1rqlRfzVKOgWEruqH\_ylKzX0Dl-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK\/rCDoi7\/\doldarbr

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166279697

LEE'S SUMMIT. MISSOURI





5-6-0

Scale = 1:28.5

Plate Offsets (X, Y): [2:0-1-15,0-4-3]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.04	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.34	Vert(CT)	-0.09	2-4	>708	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 20 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEDGE Left: 2x4 SP No.2

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-6-0 oc purlins.

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

bracing.

REACTIONS (size) 2=0-5-8, 3= Mechanical, 4= Mechanical

Max Horiz 2=114 (LC 12)

Max Uplift 2=-55 (LC 12), 3=-107 (LC 12) Max Grav 2=320 (LC 1), 3=174 (LC 1), 4=104

(LC 3)

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

Tension

TOP CHORD 1-2=0/4, 2-3=-115/62

BOT CHORD 2-4=0/0

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-5-4 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 2 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 107 lb uplift at joint 3.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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



June 18,2024



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

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



Ply Job Truss Truss Type Qty Roof - HR Lot 151 Jack-Open P240644-01 J04 2 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279698 LEE'S SUMMIT. MISSOURI

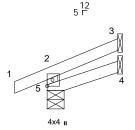
RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1092:25 ID:\_32xhkbqhomNPTzx1kOnbGzX0Dq-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDor74290?f









ı 4 12

0-5-8	
	1-10-15
	1-5-7
0-5-8	

Scale = 1:31.2

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	4-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 8 lb	FT = 20%

### LUMBER

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

#### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.

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

bracing.

REACTIONS (size)

3= Mechanical, 4= Mechanical, 5=0-5-8

Max Horiz 5=41 (LC 9)

Max Uplift 3=-30 (LC 12), 5=-39 (LC 8)

Max Grav

3=44 (LC 1), 4=31 (LC 3), 5=171

(LC 1)

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

Tension

TOP CHORD 2-5=-150/134, 1-2=0/27, 2-3=-32/18

**BOT CHORD** 4-5=-12/8

#### 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) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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



June 18,2024



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



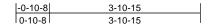
Job Truss Truss Type Qty Ply Roof - HR Lot 151 P240644-01 J05 Jack-Open 2

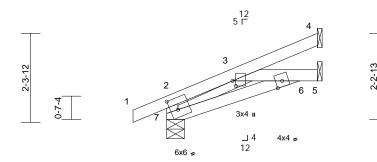
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

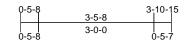
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279699 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/1922:25 ID:IK?XofUBo1dfq4mC?LkgjNzX0Dz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi732JQ4







Scale = 1:29.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	-0.01	6-7	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.02	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%

### LUMBER

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

2x4 SP No.2 \*Except\* 7-3:2x3 SPF No.2 WEBS

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals.

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

bracing.

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

7=0-5-8 Max Horiz 7=76 (LC 12)

Max Uplift 4=-39 (LC 12), 5=-3 (LC 12), 7=-35

(LC 12)

Max Grav 4=75 (LC 1), 5=128 (LC 3), 7=260

(LC 1)

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

Tension

TOP CHORD 2-7=-147/173, 1-2=0/27, 2-3=-29/79, 3-4=-40/23

BOT CHORD 6-7=-268/255, 3-6=-234/250, 5-6=0/0

WEBS 3-7=-257/113

### NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4 and 3 lb uplift at joint 5.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 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



June 18,2024



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



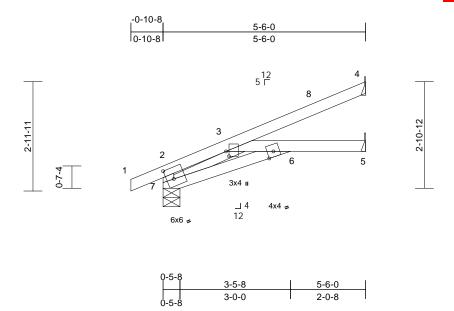
Truss Type Job Truss Qty Ply Roof - HR Lot 151 P240644-01 J06 Jack-Open 6

DEVELOPMENT SERVICES 166279700 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/192:2 ID:dqjd4CK1s1\_Vm4Hil6?didzX0EA-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV/rCDoi7J42JQ



Scale = 1:31.3

Plate Offsets	(X, Y):	[3:0-1-9,0-1-0],	, [7:0-2-4,0-3-11]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	0.05	3-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.08	3-6	>809	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 23 lb	FT = 20%

### LUMBER

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

**BOT CHORD** WEBS

2x4 SP No.2 \*Except\* 7-3:2x3 SPF No.2 **BRACING** 

TOP CHORD

Structural wood sheathing directly applied or 5-6-0 oc purlins, except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 8-6-0 oc

bracing.

REACTIONS (size) 4= Mechanical, 5= Mechanical, 7=0-5-8

Max Horiz 7=105 (LC 12)

Max Uplift 4=-66 (LC 12), 5=-3 (LC 12), 7=-40

(LC 12)

Max Grav 4=133 (LC 1), 5=135 (LC 3), 7=336

(LC 1)

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

Tension

TOP CHORD 2-7=-152/153, 1-2=0/27, 2-3=-31/71,

3-4=-68/41

**BOT CHORD** 6-7=-482/425, 3-6=-395/453, 5-6=0/0

WEBS 3-7=-486/305

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph: TCDL=6.0psf: BCDL=6.0psf: h=35ft: Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-5-4 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 7 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 4 and 3 lb uplift at joint 5.
- One H2.5T Simpson Strong-Tie connectors recommended to connect  $\bar{\text{truss}}$  to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.
- 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



June 18,2024



# 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 151

 P240644-01
 J07
 Jack-Open
 1
 1
 Job Reference (optional)

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 Mil

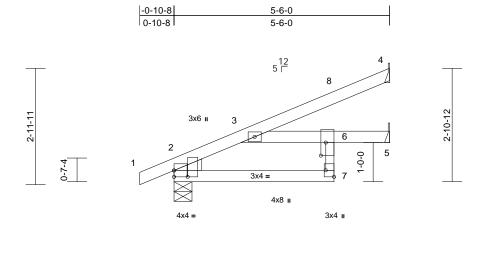
RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES
16627701

LEE'S SUMMIT, MISSOURI

Run: 8.63 S. Apr 26 2024 Print: 8.630 S. Apr 26 2024 MiTek Industries, Inc. Mon Jun 1092: \$01/29:24
ID:18tK8Q9F9kDU5xC0wAlL7gzX0EO-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDow422ft



Scale = 1:29.4

Plate Offsets (X, Y):	[2:0-1-15,0-4-3]	, [6:0-4-0,0-1-8]	, [7:Edge,0-2-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.03	3-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.04	3-6	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 24 lb	FT = 20%

4-1-0

4-1-0

5-6-0

1-5-0

LUMBER

TOP CHORD 2x4 SP No.2

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

WEDGE Left: 2x4 SP No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-6-0 oc purlins.

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

bracing.

**REACTIONS** (size) 2=0-5-8, 4= Mechanical, 5=

Mechanical Max Horiz 2=114 (LC 12)

Max Uplift 2=-41 (LC 12), 4=-61 (LC 12), 5=-1

(LC 12)

Max Grav 2=342 (LC 1), 4=120 (LC 1), 5=155

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/4, 2-3=-318/44, 3-4=-65/36

BOT CHORD 2-7=-148/216, 6-7=-4/88, 3-6=-216/148,

5-6=0/0

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-5-4 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.
- 4) Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi.

- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 61 lb uplift at joint 4 and 1 lb uplift at joint 5.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



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

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



Job Truss Truss Type Qty Ply Roof - HR Lot 151 P240644-01 J08 Jack-Open Job Reference (optiona

5-6-0

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279702 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/1922:25 ID:ZgnXMGxyOCy1x9qYtOQ7PuzX0Eg-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDbi7JQd

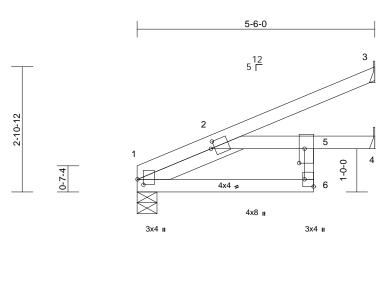


Plate Offsets (X, Y): [1:0-1-8,0-1-10], [2:0-1-0,0-1-12], [5:0-4-0,0-1-8], [6:Edge,0-2-8]

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	0.26	Vert(LL)	0.03	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.04	2-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 25 lb	FT = 20%

4-1-0

4-1-0

### LUMBER

TOP CHORD 2x4 SP No.2

**BOT CHORD** 2x4 SP No.2 \*Except\* 6-5:2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 2-6-8 **BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-6-0 oc purlins.

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

bracing.

REACTIONS (size) 1=0-5-8, 3= Mechanical, 4= Mechanical

Max Horiz 1=112 (LC 12)

Max Uplift 1=-10 (LC 12), 3=-62 (LC 12), 4=-3

(LC 12)

Max Grav 1=257 (LC 1), 3=121 (LC 1), 4=156

(LC 3)

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

Tension

TOP CHORD 1-2=-331/52, 2-3=-65/37

**BOT CHORD** 1-6=-156/230, 5-6=-11/88, 2-5=-230/156,

4-5=0/0

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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 1 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 62 lb uplift at joint 3 and 3 lb uplift at joint 4.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

OF MISS SCOTT M. SEVIER PE-2001018807

June 18,2024



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

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



Truss Type Ply Job Truss Qty Roof - HR Lot 151 P240644-01 J09 Jack-Open

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

LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1032:36 ID:sIAIGrqhI7iSkd3dHIEn?nzX0Eq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr Doi7J42.96 Apr 26 2024 MiTek Industries, Inc. Mon Jun 1032:36 ID:sIAIGrqhI7iSkd3dHIEn?nzX0Eq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr Doi7J42.96 Apr 26 2024 MiTek Industries, Inc. Mon Jun 1032:36 ID:sIAIGrqhI7iSkd3dHIEn?nzX0Eq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr Doi7J42.96 Apr 26 2024 MiTek Industries, Inc. Mon Jun 1032:36 ID:sIAIGrqhI7iSkd3dHIEn?nzX0Eq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr Doi7J42.96 Apr 26 2024 MiTek Industries, Inc. Mon Jun 1032:36 ID:sIAIGrqhI7iSkd3dHIEn?nzX0Eq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr Doi7J42.96 Apr 26 2024 MiTek Industries, Inc. Mon Jun 1032:36 ID:sIAIGrqhI7iSkd3dHIEn?nzX0Eq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr Doi7J42.96 Apr 26 2024 MiTek Industries Inc. Mon Jun 1032:36 ID:sIAIGrqhI7iSkd3dHIEn?nzX0Eq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr Doi7J42.96 Apr 26 2024 MiTek Industries Inc. Mon Jun 1032:36 ID:sIAIGrqhI7iSkd3dHIEn?nzX0Eq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr Doi7J42.96 Apr 26 ID:sIAIGrqhI7iSkd3dHIEn?nzX0Eq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr Doi7J42.96 Apr 26 ID:sIAIGrqhI7iSkd3dHIEn?nzX0Eq-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWr Doi7J42.96 Apr 26 ID:sIAIGrqhI7iSkd3dHIEn.

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166279703

-0-10-8 1-0-11 0-10-8 1-0-11

5 T





1-0-11

### 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	0.06	Vert(LL)	0.00	2	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.00	Vert(CT)	0.00	2	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

1-0-11 oc purlins.

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

bracing.

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

Mechanical

Max Horiz 2=34 (LC 12)

Max Uplift 2=-42 (LC 8), 3=-15 (LC 12) Max Grav 2=137 (LC 1), 3=7 (LC 1), 4=20

(LC 3)

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

TOP CHORD 1-2=0/10, 2-3=-34/17

BOT CHORD 2-4=0/0

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 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 2 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint

- 7) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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



June 18,2024



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 151 P240644-01 J10 Jack-Open Job Reference (optional

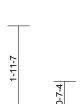
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

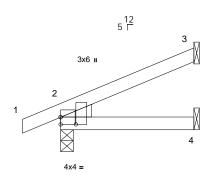
LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1 1992:26 ID:SAVcdqnpSCJttAL2c9h4N8zX0Et-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK VrCDoi7-42/5-71

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166279704

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





3-0-11



Scale = 1:26.4

Plate Offsets (X, Y): [2:0-1-15,0-4-3]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.00	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.01	2-4	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 2x4 SP No.2 **BOT CHORD** WEDGE Left: 2x4 SP No.2

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

3-0-11 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=70 (LC 12)

Max Uplift 2=-40 (LC 12), 3=-59 (LC 12) Max Grav 2=212 (LC 1), 3=87 (LC 1), 4=57

(LC 3)

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

Tension

TOP CHORD 1-2=0/4, 2-3=-70/38

BOT CHORD 2-4=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 2 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 59 lb uplift at joint
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





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

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



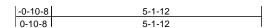
Truss Type Ply Job Truss Qty Roof - HR Lot 151 P240644-01 J11 Jack-Open

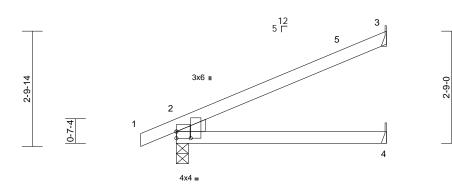
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/1922:26 ID:VoNsD8mYxb3AesBgUlfcljzX0Ev-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK\vcDoi7\vd2i9

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166279705





5-1-12

Scale = 1:28.2

Plate Offsets (X, Y): [2:0-1-15,0-4-3]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.04	2-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	2-4	>831	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 Left: 2x4 SP No.2 WEDGE

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or

5-1-12 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=108 (LC 12)

Max Uplift 2=-51 (LC 12), 3=-101 (LC 12) Max Grav 2=301 (LC 1), 3=165 (LC 1), 4=99

(LC 3)

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

Tension

TOP CHORD 1-2=0/4, 2-3=-110/59

BOT CHORD 2-4=0/0

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-1-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 2 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 101 lb uplift at joint 3.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2. This connection is for uplift only and does not consider lateral forces.
- 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







Ply Truss Type Job Truss Qty Roof - HR Lot 151 P240644-01 LG01 Lay-In Gable

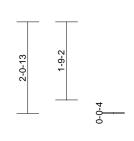
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

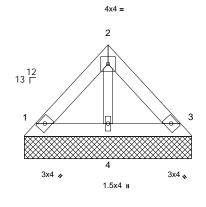
DEVELOPMENT SERVICES 166279706 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1032:36 ID:9qaz9QiQ62RtX5liiB3RbgzX0F\_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKW rCDoi7J4z3C++

		3-9-5
1-10-11	3-6-3	11
1-10-11	1-7-8	0-3-3





3-9-5

Scale = 1:26

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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or

3-9-13 oc purlins.

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

bracing.

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

Max Horiz 1=-49 (LC 8)

Max Uplift 1=-26 (LC 13), 3=-23 (LC 13) Max Grav 1=92 (LC 1), 3=92 (LC 1), 4=99

(LC 1)

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

Tension

TOP CHORD 1-2=-73/37, 2-3=-67/31

**BOT CHORD** 1-4=-15/36, 3-4=-15/36

WFBS 2-4=-60/17

### 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) 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 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 6) 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 26 lb uplift at joint 1 and 23 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





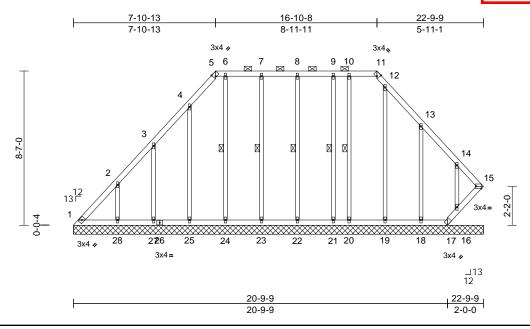
Job Truss Truss Type Qty Ply Roof - HR Lot 151 P240644-01 LG02 Lay-In Gable Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279707 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/1922:2 ID:d08LNmj2tMZk9FtvFvag7tzX0Ez-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7J



Scale = 1:64.1

Plate Offsets (X, Y): [5:0-1-7,Edge], [11:0-1-7,Edge], [15:Edge,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.17	Horiz(TL)	0.01	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 134 lb	FT = 20%

LUMBEK	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
OTHERS	2x3 SPF No.2
DDACING	

BRACING

**BOT CHORD** 

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

2-0-0 oc purlins (6-0-0 max.): 5-11.

Rigid ceiling directly applied or 10-0-0 oc

bracing.

WFBS 1 Row at midpt 6-24, 7-23, 8-22, 9-21,

10-20

1=22-9-9, 15=22-9-9, 16=22-9-9,

REACTIONS (size) 17=22-9-9, 18=22-9-9, 19=22-9-9,

20=22-9-9, 21=22-9-9, 22=22-9-9, 23=22-9-9, 24=22-9-9, 25=22-9-9,

27=22-9-9, 28=22-9-9

Max Horiz 1=229 (LC 9)

Max Uplift 1=-85 (LC 10), 15=-152 (LC 11),

16=-118 (LC 13), 17=-187 (LC 13), 18=-169 (LC 13), 19=-12 (LC 8), 20=-18 (LC 9), 21=-31 (LC 8), 22=-40 (LC 9), 23=-51 (LC 8),

24=-22 (LC 9), 25=-116 (LC 12) 27=-144 (LC 12), 28=-165 (LC 12)

Max Grav 1=230 (LC 12), 15=336 (LC 13),

16=173 (LC 20), 17=113 (LC 11), 18=220 (LC 20), 19=162 (LC 26), 20=117 (LC 26), 21=129 (LC 25), 22=185 (LC 25), 23=187 (LC 26), 24=159 (LC 22), 25=204 (LC 19),

27=201 (LC 19), 28=245 (LC 19)

**FORCES** 

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-338/210, 2-3=-185/134, 3-4=-128/93, 4-5=-137/123, 5-6=-114/110, 6-7=-114/110,

7-8=-114/110, 8-9=-114/110, 9-10=-114/110, 10-11=-114/110, 11-12=-125/103,

12-13=-112/92, 13-14=-133/84,

14-15=-219/130

**BOT CHORD** 1-28=-96/168, 27-28=-97/168, 25-27=-97/168, 24-25=-97/168,

23-24=-97/168, 22-23=-97/168, 21-22=-97/168, 20-21=-97/168 19-20=-97/168, 18-19=-97/168, 17-18=-97/168, 16-17=-149/263

15-16=-156/256

WFBS 2-28=-208/183, 3-27=-190/170,

4-25=-163/139, 6-24=-119/46, 7-23=-148/74, 8-22=-143/65, 9-21=-101/48, 10-20=-90/35, 12-19=-119/38, 13-18=-207/189,

14-16=-163/143

### NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-0 to 5-4-0, Interior (1) 5-4-0 to 7-11-1, Exterior(2R) 7-11-1 to 14-11-14, Interior (1) 14-11-14 to 16-10-12, Exterior(2E) 16-10-12 to 22-7-6 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
- Truss designed for wind loads in the plane of the truss only. For study exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are 1.5x4 MT20 unless otherwise indicated. Gable requires continuous bottom chord bearing.
- 6) 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.
- 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 152 lb uplift at joint 15, 187 lb uplift at joint 17 and 118 lb uplift at joint
- 12) N/A
- 13) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 15, 16,
- 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.



June 18,2024

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 151	
P240644-01	LG02	Lay-In Gable	1	1	Job Reference (optional)	

DEVELOPMENT SERVICES 166279707 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

15) 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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1098:301/2024
ID:d08LNmj2tMZk9FtvFvag7tzX0Ez-RfC?PsB70Hq3NSgPqnL8w3uITXbGKv7cDoi7J4zJ677



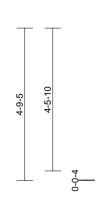
Job	Truss	Truss Type	Qty	Ply	Roof - HR Lot 151
P240644-01	LG03	Lay-In Gable	1	1	Job Reference (optional)

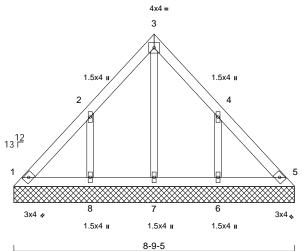
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1012132134 ID:d08LNmj2tMZk9FtvFvag7tzX0Ez-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV rCDoi7742137

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279708







Scale = 1:36

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 38 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=8-9-5, 5=8-9-5, 6=8-9-5,

7=8-9-5, 8=8-9-5 Max Horiz 1=-126 (LC 8)

Max Uplift 1=-22 (LC 8), 5=-4 (LC 9), 6=-179

(LC 13), 8=-179 (LC 12)

Max Grav 1=120 (LC 20), 5=110 (LC 22),

6=259 (LC 20), 7=115 (LC 22),

8=259 (LC 19)

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

Tension

TOP CHORD 1-2=-136/100, 2-3=-105/87, 3-4=-105/83, 4-5=-120/87

1-8=-80/116, 7-8=-80/117, 6-7=-80/117,

5-6=-80/116 **WEBS** 2-8=-261/207, 3-7=-78/38, 4-6=-261/207

### NOTES

**BOT CHORD** 

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 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.
- N/A
- 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



June 18,2024



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

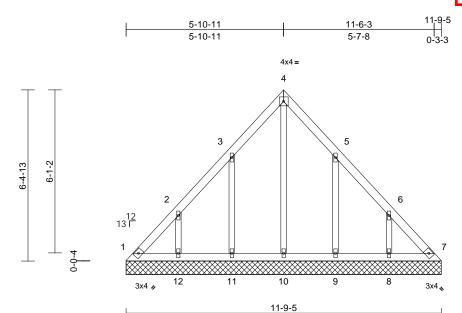


Job Truss Truss Type Qty Ply Roof - HR Lot 151 P240644-01 LG04 Lay-In Gable Job Reference (optiona S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279709 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S. Apr 26 2024 Print: 8.630 S. Apr 26 2024 MiTek Industries, Inc. Mon Jun 1 ID:d08LNmj2tMZk9FtvFvag7tzX0Ez-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7J



Scale = 1:43.1

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	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

2x4 SP No.2 TOP CHORD 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=11-9-5, 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

TOP CHORD 1-2=-218/139, 2-3=-137/89, 3-4=-130/119,

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

**WEBS** 2-12=-199/162, 3-11=-201/168, 4-10=-102/62, 5-9=-201/167, 6-8=-199/163

### 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.
- 6) 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) N/A
- 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



June 18,2024



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

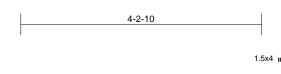
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

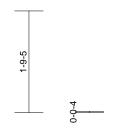


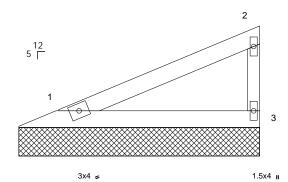
Ply Job Truss Truss Type Qty Roof - HR Lot 151 P240644-01 V01 Valley Job Reference (optional

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Non Jun 1792:26 ID:RvzB30a8T\_AIKYYn65t5BZzX0F8-RfC?PsB70Hq3NSgPqnL8w3uITXbGr WrCDoi7s-239:









RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166279710

4-2-10

Scale = 1:20.2

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

### LUMBER

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

### **BRACING**

TOP CHORD Structural wood sheathing directly applied or 4-3-3 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=4-2-10, 3=4-2-10

Max Horiz 1=67 (LC 9)

Max Uplift 1=-27 (LC 12), 3=-40 (LC 12) Max Grav 1=153 (LC 1), 3=153 (LC 1)

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

Tension 1-2=-88/59, 2-3=-119/141

TOP CHORD BOT CHORD 1-3=-29/32

### NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* 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 27 lb uplift at joint 1 and 40 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





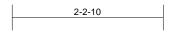
Ply Truss Type Job Truss Qty Roof - HR Lot 151 P240644-01 V02 Valley Job Reference (optional

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

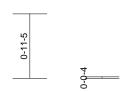
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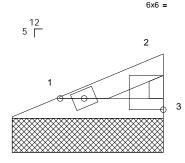
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166279711











3x4 =

2-2-10

Scale = 1:16.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	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: 6 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 2-3-3 oc purlins, except end verticals.

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

bracing.

REACTIONS 1=2-2-10, 3=2-2-10 (size)

Max Horiz 1=28 (LC 9)

Max Uplift 1=-11 (LC 12), 3=-17 (LC 12) Max Grav 1=63 (LC 1), 3=63 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** Tension

TOP CHORD 1-2=-37/25, 2-3=-49/58

BOT CHORD 1-3=-12/13

### 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
- 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 11 lb uplift at joint 1 and 17 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



June 18,2024



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 151	
P240644-01	V03	Valley	1	1	Job Reference (optional	

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/1922:26 ID:RvzB30a8T\_AIKYYn65t5BZzX0F8-RfC?PsB70Hq3NSgPqnL8w3uITXbGrWrCDoi7942S9

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279712

9-8-10 18-8-14 9-8-10 9-0-4 4x4 = 3 1.5x4 <sub>II</sub> 1.5x4 <sub>II</sub> 2 10 11 5 9 8 6 3x4 = 3x4 s 1.5x4 II 3x4 = 1.5x4 II 1.5x4 II

Sca	le	=	1	:3	6.	6
Sca	le	=	1	:3	6.	t

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

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=19-5-3, 5=19-5-3, 6=19-5-3, 7=19-5-3, 9=19-5-3

Max Horiz 1=71 (LC 12)

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.
- 9) N/A
- 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



June 18,2024



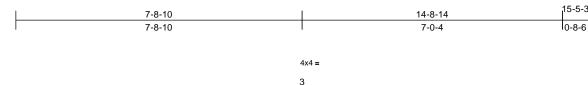


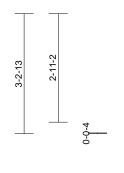
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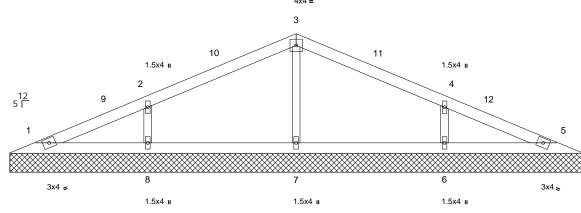
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279713 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Mon Jun 1/1922:26 ID:w5XZGLbmEHI9yi6\_goPKkmzX0F7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDo







15-5-3

Scale	=	1:31	.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	0.22	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 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=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.
- 9) N/A
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





 Job
 Truss
 Truss Type
 Qty
 Ply
 Roof - HR Lot 151

 P240644-01
 V05
 Valley
 1
 1
 Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

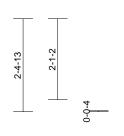
DEVELOPMENT SERVICES
166279714

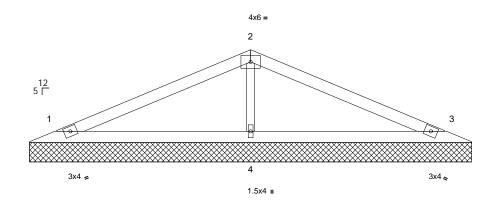
LEE'S SUMMIT, MISSOURI

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

Run: 8.63 S. Apr 26 2024 Print: 8.630 S. Apr 26 2024 MiTek Industries, Inc. Non Jun 1 1923 10 1/2 9:24
ID:w5XZGLbmEHI9yi6\_goPKkmzX0F7-RfC?PsB70Hq3NSgPqnL8w3ulTXbcxWrCDord4sc/f0 1/2 9:24







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	BC	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 BOT CHORD 2x4 SP No.2 OTHERS 2x3 SPF No.2

**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

Max Horiz 1=40 (LC 12)

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

4=-43 (LC 12)

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

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

WEBS 2-4=-345/234

### NOTES

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



June 18,2024



Job Truss Truss Type Qty Ply Roof - HR Lot 151 P240644-01 V06 Valley Job Reference (optional

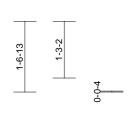
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166279715 LEE'S SUMMIT. MISSOURI

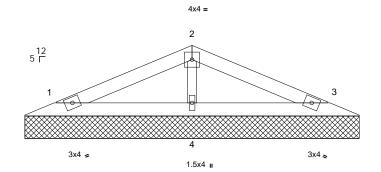
RELEASE FOR CONSTRUCTION

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

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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 17)

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.
- N/A
- 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



June 18,2024

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



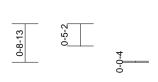
Truss Type Job Truss Qty Ply Roof - HR Lot 151 P240644-01 V07 Valley

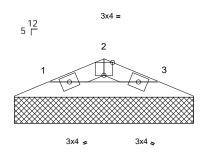
DEVELOPMENT SERVICES 166279716 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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2-8-14 3-5-3 1-8-10 1-8-10





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.

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

**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 12)

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.
- 9) N/A
- 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





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

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

connector plates.

This symbol indicates the required direction of slots in ₹

edge of truss.

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

### PLATE SIZE

4 × 4

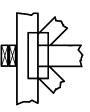
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### **BEARING**



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

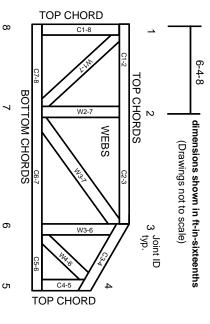
### Industry Standards:

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

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

ANSI/TPI1: DSB-22:

## **Numbering System**



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

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

# Product Code Approvals

ICC-ES Reports:

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

# Design General Notes

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

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

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## 

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

## **General Safety Notes**

### Failure to Follow Could Cause Property Damage or Personal Injury

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

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

'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.

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

9

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