

RE: P241139-01

Roof - HM Lot 182

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer: Clayton Properties Project Name: P241139-01 Lot/Block: 182 Model: Riversic Model: Riverside Farmhouse 3 Car Address: 2765 SW 11th St Subdivision: Highland Meadows

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

This package includes 30 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	166371999	B1	6/21/2024	21	166372019	VE2	6/21/2024
2	166372000	B2	6/21/2024	22	166372020	VE3	6/21/2024
3	166372001	C1	6/21/2024	23	166372021	VE7	6/21/2024
4	166372002	C2	6/21/2024	24	166372022	VE8	6/21/2024
5	166372003	D1	6/21/2024	25	166372023	VE9	6/21/2024
6	166372004	D2	6/21/2024	26	166372024	VG10	6/21/2024
7	166372005	E1	6/21/2024	27	166372025	VG11	6/21/2024
8	166372006	E2	6/21/2024	28	166372026	VG12	6/21/2024
9	166372007	E3	6/21/2024	29	166372027	VG13	6/21/2024
10	166372008	G1	6/21/2024	30	166372028	VG14	6/21/2024
11	166372009	G2	6/21/2024				
12	166372010	G3	6/21/2024				
13	166372011	H1	6/21/2024				
14	166372012	H2	6/21/2024				
15	166372013	H3	6/21/2024				
16	166372014	H4	6/21/2024				
17	166372015	H5	6/21/2024				
18	166372016	H8	6/21/2024				
19	166372017	R1	6/21/2024				
20	166372018	VE1	6/21/2024				

The truss drawing(s) referenced above have been prepared by

MiTek USA, Inc under my direct supervision

based on the parameters provided by .

Truss Design Engineer's Name: Sevier, Scott

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

Missouri COA: 001193

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



Job Truss Truss Type Qty Roof - HM Lot 182 P241139-01 В1 7 1 Monopitch

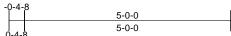
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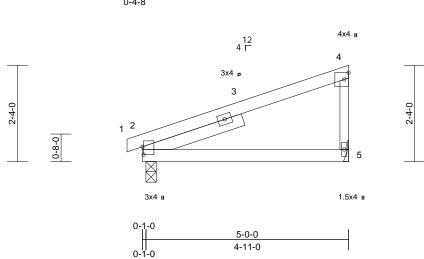
Job Reference (optional Run: 8.63 E Apr 26 2024 Print: 8.630 E Apr 26 2024 MiTek Industries, Inc. F i Jun 21 07:56) 4

LEE'S SUMMIT, MISSOURI ID:0?KsEbVflefMnNTOVEEoX7ytxid-E77z?VieK7xtMi_YXTm_WIMcFQHZ_E_So1KwPMz

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166371999





Scale = 1:27.9

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.54	Vert(LL)	-0.03	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.07	2-5	>853	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 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 -- 2-6-9

BRACING

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

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

bracing.

REACTIONS (lb/size) 2=248/0-3-0, 5=219/ Mechanical Max Horiz 2=50 (LC 9)

Max Uplift 2=-1 (LC 12)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-4-8 to 2-7-8, Interior (1) 2-7-8 to 4-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint

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

LOAD CASE(S) Standard



June 21,2024



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



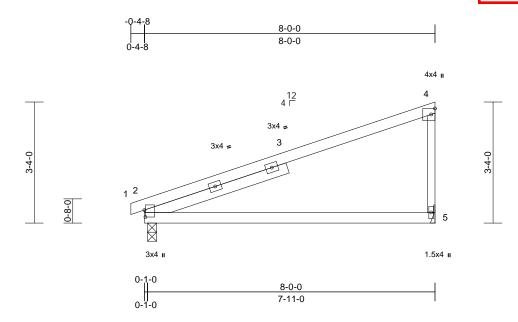
Job Truss Truss Type Qty Roof - HM Lot 182 P241139-01 B2 3 1 Monopitch

Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372000 LEE'S SUMMIT, MISSOURI

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

Run: 8.63 E Apr 26 2024 Print: 8.630 E Apr 26 2024 MiTek Industries, Inc. Fi Jun 21 of:56)2 ID:0?KsEbVflefMnNTOVEEoX7ytxid-Anm9_?xZszKA8dxC8zcSnleqw4dZxqFFAVQQZr



Scale = 1:31.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.23	2-5	>406	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.47	2-5	>203	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 34 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 4-1-9

BRACING

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 9-0-12 oc bracing.

REACTIONS (lb/size) 2=382/0-3-0, 5=355/ Mechanical

Max Horiz 2=77 (LC 9)

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 4-5=-276/176

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-4-8 to 2-7-8, Interior (1) 2-7-8 to 7-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate at joint(s) 2.
- 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 21,2024



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Job Truss Truss Type Qty Ply Roof - HM Lot 182 P241139-01 C1 1 Monopitch Supported Gable Job Reference (optional

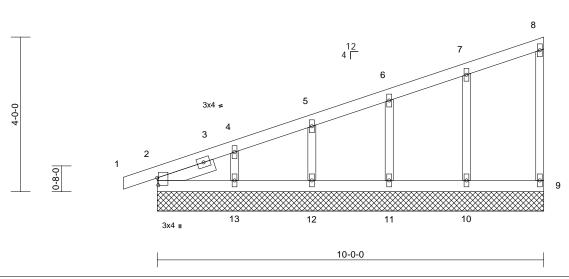
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DEVELOPMENT SERVICES 166372001 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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



Scale = 1:29.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a		n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 43 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 **SLIDER** Left 2x4 SP No.2 -- 1-6-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

2=10-0-0, 9=10-0-0, 10=10-0-0, REACTIONS (size) 11=10-0-0, 12=10-0-0, 13=10-0-0

Max Horiz 2=96 (LC 9)

Max Uplift 2=-1 (LC 12), 9=-2 (LC 9), 10=-1

(LC 12), 11=-1 (LC 12), 12=-1 (LC 12), 13=-5 (LC 12)

Max Grav 2=151 (LC 1), 9=69 (LC 1), 10=193

(LC 1), 11=177 (LC 1), 12=182 (LC

1), 13=179 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-231/113, 4-5=-169/94, 5-6=-132/84, 6-7=-94/74, 7-8=-51/56,

8-9=-54/41

BOT CHORD 2-13=-48/64 12-13=-48/64 11-12=-48/64

10-11=-48/64, 9-10=-48/64

WEBS 7-10=-150/112, 6-11=-138/100 5-12=-143/95, 4-13=-136/140

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-10-8 to 2-0-0, Exterior(2N) 2-0-0 to 9-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 9, 1 lb uplift at joint 2, 1 lb uplift at joint 10, 1 lb uplift at ioint 11, 1 lb uplift at joint 12 and 5 lb uplift at joint 13,
- 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 21,2024



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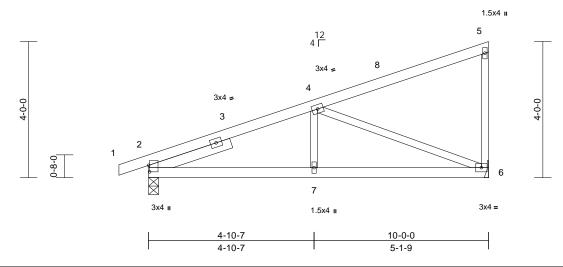
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 182
P241139-01	C2	Monopitch	10	1	Job Reference (optional)

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DEVELOPMENT SERVICES 166372002 LEE'S SUMMIT. MISSOURI nu Jun 2019.152 ID:UCuERxWI3xnDPX2a3yl14Lytxic-RfC?PsB70Hq3NSgPqnL8w3uITXbGK /rCDoi7J4z

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW





Scale = 1:33.9

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

						l						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.02	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.05	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 44 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 -- 2-6-6

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

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

Max Horiz 2=96 (LC 9) Max Uplift 2=-6 (LC 12)

Max Grav 2=509 (LC 1), 6=443 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-5/0, 2-4=-734/109, 4-5=-94/52,

5-6=-150/76

BOT CHORD 2-7=-185/636, 6-7=-185/636

WEBS 4-6=-669/160, 4-7=0/225

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 9-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 6 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 21,2024



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Ply Job Truss Truss Type Qty Roof - HM Lot 182 P241139-01 D1 1 Common Supported Gable Job Reference (optional

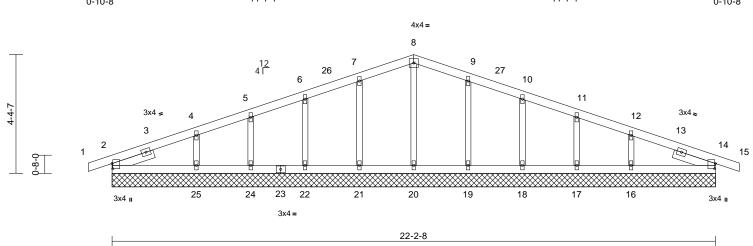
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RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

0-10-8 22-2-8 11-1-4 11-1-4 11-1-4 0-10-8 0-10-8



Scale = 1:42.4

Plate Offsets (X, Y): [2:0-2-5,0-0-5], [14:0-2-5,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-7-4, Right 2x4 SP No.2

-- 1-7-4

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=22-2-8, 14=22-2-8, 16=22-2-8, 17=22-2-8, 18=22-2-8, 19=22-2-8, 20=22-2-8, 21=22-2-8, 22=22-2-8,

24=22-2-8, 25=22-2-8 Max Horiz 2=-32 (LC 10)

Max Uplift 2=-15 (LC 12), 14=-15 (LC 12),

17=-2 (LC 12), 18=-1 (LC 12), 19=-1 (LC 12), 21=-1 (LC 12), 22=-1 (LC 12), 24=-2 (LC 12)

Max Grav 2=210 (LC 1), 14=210 (LC 1),

16=259 (LC 24), 17=155 (LC 1) 18=185 (LC 1), 19=189 (LC 24), 20=139 (LC 1), 21=189 (LC 23), 22=185 (LC 1), 24=155 (LC 1),

25=259 (LC 23)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-5/0, 2-4=-101/17, 4-5=-73/44, TOP CHORD 5-6=-68/64, 6-7=-69/88, 7-8=-71/110

8-9=-71/106, 9-10=-69/82, 10-11=-68/59 11-12=-73/38, 12-14=-101/10, 14-15=-5/0

BOT CHORD 2-25=0/45, 24-25=0/45, 22-24=0/45, 21-22=0/45, 20-21=0/45, 19-20=0/45,

18-19=0/45, 17-18=0/45, 16-17=0/45, 14-16=0/45

WEBS

8-20=-99/0, 7-21=-149/74, 6-22=-142/51 5-24=-125/42, 4-25=-194/70, 9-19=-149/74, 10-18=-142/51, 11-17=-125/42,

12-16=-194/69

NOTES Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 11-1-4, Corner (3R) 11-1-4 to 14-1-4, Exterior(2N) 14-1-4 to 23-1-0 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
- 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 15 lb uplift at joint 2, 15 lb uplift at joint 14, 1 lb uplift at joint 21, 1 lb uplift at joint 22, 2 lb uplift at joint 24, 1 lb uplift at joint 19, 1 lb uplift at joint 18 and 2 lb uplift at joint 17.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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



June 21,2024



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Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 182	
P241139-01	D2	Common	5	1	Job Reference (optional	

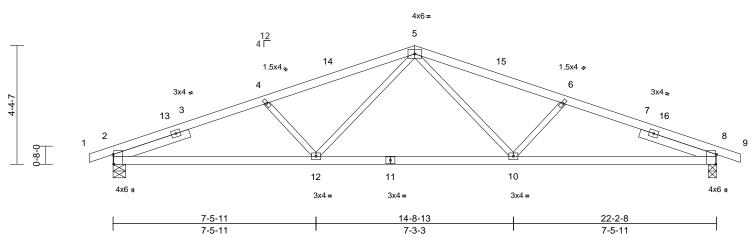
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tu Jun 2019:1524

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372004 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

ID:UCuERxWI3xnDPX2a3yl14Lytxic-RfC?PsB70Hq3NSgPqnL8w3uITXbGK /rCDoi7J4





Scale = 1:42.4

Plate Offsets (X, Y): [2:0-4-5,Edge], [8:0-4-5,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	0.61	Vert(LL)	-0.11	10-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.64	Vert(CT)	-0.22	10-12	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.06	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 93 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 -- 2-11-5, Right 2x4 SP **SLIDER**

No.2 -- 2-11-5

BRACING TOP CHORD

Structural wood sheathing directly applied or

3-2-15 oc purlins.

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

bracing.

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

Max Horiz 2=-32 (LC 10)

Max Grav 2=1061 (LC 1), 8=1061 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension 1-2=-5/0, 2-4=-2089/130, 4-5=-1854/110,

TOP CHORD 5-6=-1854/110, 6-8=-2089/130, 8-9=-5/0

BOT CHORD 2-12=-86/1890, 10-12=-26/1376,

8-10=-80/1890

WEBS 5-10=0/534, 6-10=-328/107, 5-12=0/534,

4-12=-328/107

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 11-1-4, Exterior(2R) 11-1-4 to 14-1-4, Interior (1) 14-1-4 to 23-1-0 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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 21,2024



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 Qtv Roof - HM Lot 182 P241139-01 E1 1 Common Supported Gable 1 Job Reference (optional

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

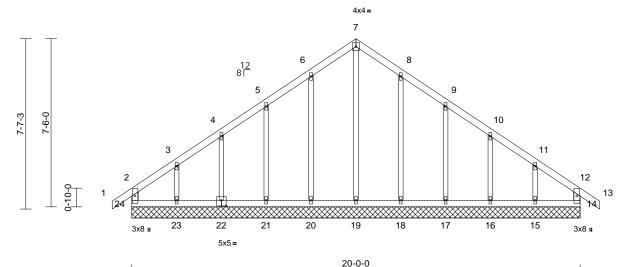
LEE'S SUMMIT. MISSOURI

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu Jun 2019:152 ID:G0PUqfXpdb1C9Caj86dS0Nyg_nZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGLWrCDoi7J4z

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166372005





Scale = 1:51.4

Plate Offsets (X, Y): [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	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 99 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 14=20-0-0, 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,

23=20-0-0, 24=20-0-0

Max Horiz 24=-125 (LC 10) Max Uplift 14=-4 (LC 9), 15=-28 (LC 12),

16=-12 (LC 12), 17=-19 (LC 12), 18=-10 (LC 12), 20=-10 (LC 12),

21=-19 (LC 12), 22=-12 (LC 12), 23=-28 (LC 12), 24=-13 (LC 8)

Max Grav 14=167 (LC 1), 15=175 (LC 18), 16=184 (LC 1), 17=178 (LC 24),

18=190 (LC 24), 19=160 (LC 1), 20=190 (LC 23), 21=178 (LC 23),

22=184 (LC 1), 23=182 (LC 17), 24=173 (LC 18)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-24=-148/41, 1-2=0/40, 2-3=-96/78, 3-4=-78/65, 4-5=-72/81, 5-6=-77/130,

6-7=-101/173, 7-8=-101/173, 8-9=-77/130, 9-10=-55/81, 10-11=-61/48, 11-12=-76/55,

12-13=0/40, 12-14=-148/40

BOT CHORD 23-24=-50/71, 21-23=-50/71, 20-21=-50/71, 19-20=-50/71, 18-19=-50/71, 17-18=-50/71,

16-17=-50/71, 15-16=-50/71, 14-15=-50/71

WEBS

7-19=-145/46, 6-20=-150/54, 5-21=-138/65, 4-22=-144/59, 3-23=-132/73, 8-18=-150/54, 9-17=-138/65, 10-16=-144/58, 11-15=-128/72

NOTES

1) Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-10-8 to 2-0-0, Exterior(2N) 2-0-0 to 10-0-0, Corner (3R) 10-0-0 to 13-0-0, Exterior(2N) 13-0-0 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 DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 24, 4 lb uplift at joint 14, 10 lb uplift at joint 20, 19 lb uplift at joint 21, 12 lb uplift at joint 22, 28 lb uplift at joint 23, 10 lb uplift at joint 18, 19 lb uplift at joint 17, 12 lb uplift at joint 16 and 28 lb uplift at joint 15.

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

LOAD CASE(S) Standard



June 21,2024



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



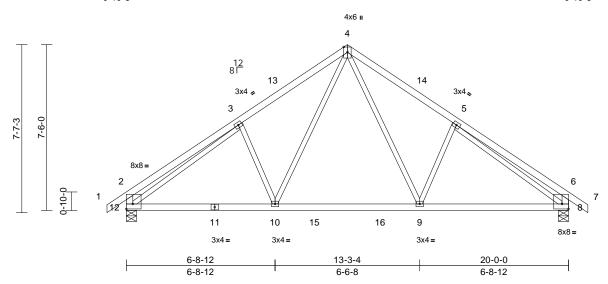
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 182	
P241139-01	E2	Common	3	1	Job Reference (optional	

DEVELOPMENT SERVICES 166372006 LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Tu Jun 2019:1524

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

0-10-8 20-10-8 5-1-14 10-0-0 14-10-2 20-0-0 4-10-2 0-10-8 5-1-14 4-10-2 5-1-14 0-10-8

ID:g22mK39Nw47cxSilq5aBGryg_o2-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J4



Scale = 1:52.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.08	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.52	Vert(CT)	-0.12	9-10	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.03	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 99 lb	FT = 20%

LUMBER

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

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

2400F 2.0E

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

5-4-6 oc purlins, except end verticals. **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing

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

Max Horiz 12=-125 (LC 10)

Max Uplift 8=-1 (LC 12), 12=-1 (LC 12)

Max Grav 8=1010 (LC 18), 12=1010 (LC 17)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/40, 2-3=-491/68, 3-4=-1109/73,

4-5=-1109/73, 5-6=-491/68, 6-7=0/40,

2-12=-450/69 6-8=-450/69 BOT CHORD

10-12=0/991, 9-10=0/693, 8-9=0/924

3-12=-782/0. 5-8=-782/0. 3-10=-263/101. 4-10=-12/514, 4-9=-12/514, 5-9=-263/101

NOTES

WFBS

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 10-0-0, Exterior(2R) 10-0-0 to 13-0-0, Interior (1) 13-0-0 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 12 and 1 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 21,2024



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



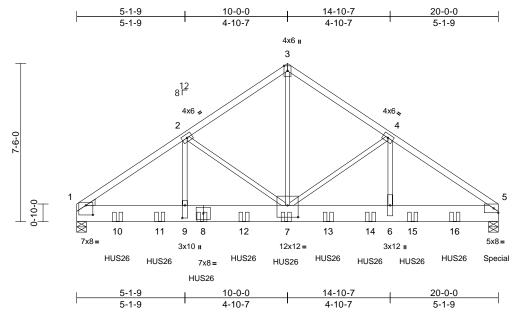
Qty Job Truss Truss Type Ply Roof - HM Lot 182 P241139-01 E3 3 Common Girder Job Reference (optional

DEVELOPMENT SERVICES 166372007 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS 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. Thu Jun 2019 152 ID:4ukXNjh4mFYE5h6Guu?JeHytxiO-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7J4z



Scale = 1:54.7 Plate Offsets (X, Y): [1:0-4-0,0-5-7], [7:0-6-0,0-6-12], [9:0-7-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.71	Vert(LL)	-0.08	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.15	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 355 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x10 HF No.2 2x3 SPF No.2 WEBS WFDGF Left: 2x4 SP No.2

BRACING

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins.

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

bracing

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

Max Horiz 1=105 (LC 7)

Max Grav 1=6971 (LC 1), 5=8269 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension TOP CHORD

1-2=-9403/0, 2-3=-6685/0, 3-4=-6685/0,

4-5=-9413/0

BOT CHORD 1-9=0/7451, 7-9=0/7451, 6-7=0/7459,

5-6=0/7459

WEBS 2-9=0/3109, 2-7=-2494/0, 3-7=0/6967,

4-7=-2505/0, 4-6=0/3122

NOTES

- 1) 3-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: 2x10 2 rows staggered at 0-4-0 oc
 - Web connected as follows: 2x3 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- 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 HUS26 (14-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 17-11-4 to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1359 lb down at 19-9-4 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, 3-5=-70, 1-5=-20

Concentrated Loads (lb)

Vert: 5=-1359 (F), 8=-1347 (F), 7=-1347 (F), 10=-1347 (F), 11=-1347 (F), 12=-1347 (F), 13=-1347

(F), 14=-1347 (F), 15=-1347 (F), 16=-1347 (F)



June 21,2024



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 Qtv Roof - HM Lot 182 P241139-01 G1 1 Common Supported Gable 1

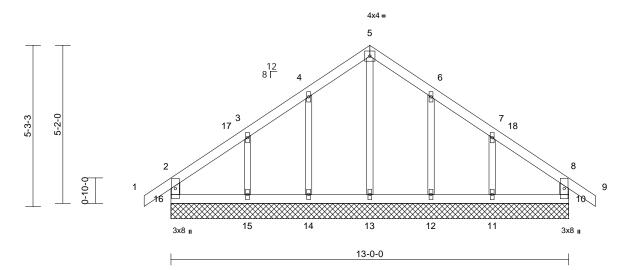
DEVELOPMENT SERVICES 166372008 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu Jun 2019:152

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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



ID:Ra??scXYbZ1xerByBMoV9mytxia-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J-



Scal	le	=	1	:37	

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 60 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

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

16=13-0-0 Max Horiz 16=-90 (LC 10)

Max Uplift 10=-25 (LC 12), 11=-21 (LC 12),

12=-12 (LC 12), 14=-12 (LC 12), 15=-21 (LC 12), 16=-25 (LC 12)

Max Grav 10=190 (LC 1), 11=199 (LC 18),

12=185 (LC 24), 13=152 (LC 1), 14=185 (LC 23), 15=202 (LC 17),

16=190 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-16=-168/95, 1-2=0/40, 2-3=-86/51, 3-4=-66/101, 4-5=-93/155, 5-6=-93/155,

6-7=-67/101, 7-8=-77/42, 8-9=0/40,

8-10=-168/94

BOT CHORD 15-16=-33/47, 14-15=-33/47, 13-14=-33/47, 12-13=-33/47, 11-12=-33/47, 10-11=-33/47 WEBS 5-13=-115/25, 4-14=-148/73, 3-15=-148/100,

6-12=-148/73, 7-11=-148/101

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=25ft; B=45ft; L=24ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-6-0, Corner(3R) 6-6-0 to 9-6-0, Exterior(2N) 9-6-0 to 13-10-8 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
- 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.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 10) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 25 lb uplift at joint 16, 25 lb uplift at joint 10, 12 lb uplift at joint 14, 21 lb uplift at joint 15, 12 lb uplift at joint 12 and 21 lb uplift at ioint 11.
- 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



June 21,2024



🗥 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



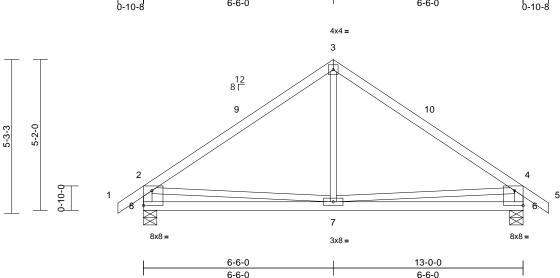
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 182	
P241139-01	G2	Common	1	1	Job Reference (optional	

DEVELOPMENT SERVICES 166372009 LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu Jun 2019.152

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

-0-10-8 13-0-0 6-6-0 6-6-0 6-6-0

ID:Ra??scXYbZ1xerByBMoV9mytxia-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4z



Scale = 1:39.5

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

-												
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	0.58	Vert(LL)	-0.03	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.07	6-7	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 61 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 8-2,6-4:2x4 SP No.2

WEBS **BRACING**

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

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

bracing.

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

Max Horiz 8=90 (LC 11)

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

Max Grav 6=643 (LC 1), 8=643 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/40, 2-3=-628/57, 3-4=-628/57,

TOP CHORD 4-5=0/40, 2-8=-588/91, 4-6=-588/91

BOT CHORD 7-8=-113/441, 6-7=-93/415

WFBS 3-7=0/271, 2-7=-115/170, 4-7=-115/170

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 6-6-0, Exterior(2R) 6-6-0 to 9-6-0, Interior (1) 9-6-0 to 13-10-8 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 8 and 8 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 21,2024



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 - HM Lot 182
P241139-01	G3	Common	4	1	Job Reference (optional)

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. T u Jun 20 9 13 24

12-10-8

6-6-0

ID:gQRVK?imNnq8FdvXjMtueRzZO3R-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4z30?f

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372010 LEE'S SUMMIT. MISSOURI

6-4-8 12-10-8 6-4-8 6-6-0 4x6 = 2 12 8 Г 10x10 =8x8 = 3 5

Scale = 1:38.3

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

-				1		1						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.67	Vert(LL)	-0.03	4-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.07	4-5	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		, ,					Weight: 58 lb	FT = 20%

3x8 =

LUMBER

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

2x3 SPF No.2 *Except* 6-1,4-3:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 6=-80 (LC 10)

Max Grav 4=566 (LC 1), 6=566 (LC 1) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-619/57, 2-3=-622/57, 1-6=-511/60,

3-4=-510/61

BOT CHORD 5-6=-73/290, 4-5=-61/305

2-5=0/257, 1-5=0/217, 3-5=-11/194 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-3-4 to 3-3-4, Interior (1) 3-3-4 to 6-6-0, Exterior(2R) 6-6-0 to 9-6-0, Interior (1) 9-6-0 to 12-10-4 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 6 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- 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

6-4-8

6-4-8



June 21,2024



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 - HM Lot 182
P241139-01	H1	Common Supported Gable	1	1	Job Reference (optional)

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu Jun 2019.132 ID:vnZN4yYALs9oG?m9k4JkhzytxiZ-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372011 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

VrCDoi7J42

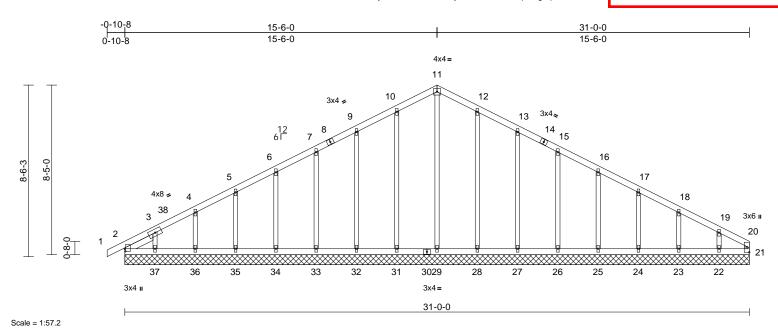


Plate Offsets (X, Y): [2:0-1-8,0-0-5]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.00	21	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 152 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 SLIDER Left 2x4 SP No.2 -- 1-7-0

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size)

2=31-0-0, 21=31-0-0, 22=31-0-0, 23=31-0-0, 24=31-0-0, 25=31-0-0, 26=31-0-0, 27=31-0-0, 28=31-0-0, 29=31-0-0, 31=31-0-0, 32=31-0-0, 33=31-0-0, 34=31-0-0, 35=31-0-0, 36=31-0-0. 37=31-0-0

Max Horiz 2=116 (LC 11)

Max Uplift 2=-2 (LC 10), 22=-27 (LC 12), 23=-3 (LC 12), 24=-8 (LC 12), 25=-7 (LC 12), 26=-6 (LC 12),

27=-9 (LC 12), 28=-2 (LC 12), 31=-2 (LC 12), 32=-9 (LC 12), 33=-6 (LC 12), 34=-7 (LC 12), 35=-7 (LC 12), 36=-7 (LC 12),

37=-13 (LC 12)

Max Grav 2=150 (LC 18), 21=64 (LC 17) 22=165 (LC 24), 23=184 (LC 1), 24=179 (LC 24), 25=180 (LC 1), 26=180 (LC 1), 27=179 (LC 24), 28=189 (LC 24), 29=152 (LC 1),

31=189 (LC 23), 32=179 (LC 23), 33=180 (LC 1), 34=180 (LC 23), 35=179 (LC 1), 36=183 (LC 23), 37=156 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD 1-2=0/6, 2-3=-117/97, 3-4=-101/81,

4-5=-95/74, 5-6=-89/67, 6-7=-83/81, 7-9=-77/115, 9-10=-80/151, 10-11=-97/183, 11-12=-97/183, 12-13=-80/151,

13-15=-61/115, 15-16=-50/81, 16-17=-50/47, 17-18=-51/19, 18-19=-56/25, 19-20=-90/42, 20-21=-49/7

BOT CHORD

2-37=-28/79, 36-37=-28/79, 35-36=-28/79, 34-35=-28/79, 33-34=-28/79, 32-33=-28/79, 31-32=-28/79, 29-31=-28/79, 28-29=-28/79, 27-28=-28/79, 26-27=-28/79, 25-26=-28/79, 24-25=-28/79, 23-24=-28/79, 22-23=-28/79,

21-22=-28/79

WFBS 11-29=-114/25, 10-31=-149/46,

9-32=-139/57, 7-33=-140/52, 6-34=-140/53, 5-35=-140/53, 4-36=-142/55, 3-37=-119/86 12-28=-149/46, 13-27=-139/57, 15-26=-140/52, 16-25=-140/53

17-24=-139/53, 18-23=-143/69,

19-22=-128/98

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-10-8 to 2-2-11, Exterior(2N) 2-2-11 to 15-6-0, Corner (3R) 15-6-0 to 18-7-3, Exterior(2N) 18-7-3 to 30-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 2 lb uplift at joint 2, 2 lb uplift at joint 31, 9 lb uplift at joint 32, 6 lb uplift at joint 33, 7 lb uplift at joint 34, 7 lb uplift at joint 35, 7 lb uplift at joint 36, 13 lb uplift at joint 37, 2 lb uplift at joint 28, 9 lb uplift at joint 27, 6 lb uplift at joint 26, 7 lb uplift at joint 25, 8 lb uplift at joint 24, 3 lb uplift at joint 23 and 27 lb uplift at joint 22.
- 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 21,2024



🗥 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 - HM Lot 182 P241139-01 H2 6 1 Common Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372012 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. Thu Jun 2019:152 ID:kwweK0dxxiwx_wEJ5LQ8xEytxiT-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J42

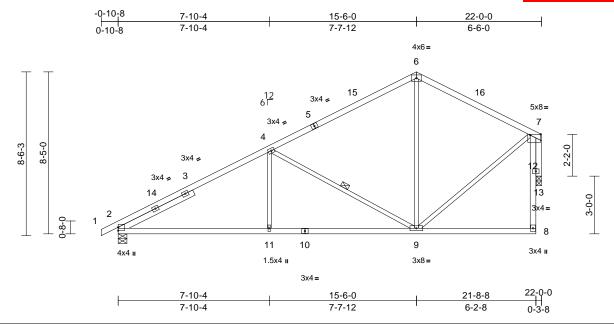


Plate Offsets (X, Y): [7:0-6-8,0-0-8]

l di	(5)	0	0.00	001		DEEL		(1)	1/-1-61	1.74	DI ATEO	ODID
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	0.85	Vert(LL)	-0.09	2-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.20	2-11	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.10	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 110 lb	FT = 20%

LUMBER

Scale = 1:59.9

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

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

SLIDER Left 2x4 SP No.2 -- 4-4-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-2-1 oc purlins, except end verticals.

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

bracing.

WFBS 1 Row at midpt 4-9

REACTIONS (size) 2=0-5-8, 13=0-3-2

Max Horiz 2=131 (LC 11)

Max Grav 2=1046 (LC 1), 13=955 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=0/6, 2-4=-1527/49, 4-6=-776/88, TOP CHORD

6-7=-733/83, 8-12=0/103, 7-12=0/103

BOT CHORD 2-11=-139/1262, 9-11=-139/1262, 8-9=-45/91

WEBS 6-9=0/252, 4-9=-800/89, 4-11=0/333,

7-9=-21/643, 7-13=-968/48

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior (1) 2-1-8 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-0, Interior (1) 18-6-0 to 21-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * 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.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 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 21,2024



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 - HM Lot 182 P241139-01 **H3** 2 Common Girder Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372013 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 E Apr 26 2024 Print: 8.630 E Apr 26 2024 MiTek Industries, Inc. Fi Jun 21 🏰:5893 ID:Y4lvb3hiXYg5irhSRbXYAVytxiN-6Oy9x?2wquTNxlUeGS9oRVbHI?oSOOKWTQN87

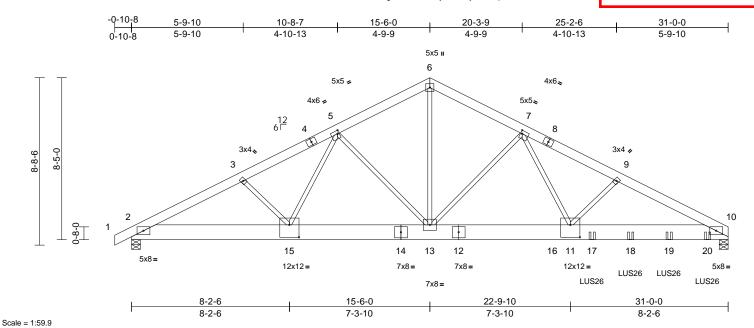


Plate Offsets (X, Y): [5:0-1-0,0-2-0], [7:0-1-0,0-2-0], [11:0-6-0,0-7-12], [15:0-6-0,0-7-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	-0.15	11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.27	11-13	>999	180		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.06	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 382 lb	FT = 20%

LUMBER

TOP CHORD 2x6 SPF No.2 **BOT CHORD** 2x10 HF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-8-7 oc purlins.

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

bracing.

REACTIONS (lb/size) 2=2737/0-5-8, 10=5740/0-5-8

Max Horiz 2=110 (LC 7)

FORCES (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD

2-3=-5134/0, 3-4=-4897/0, 4-5=-4780/0,

5-6=-4511/0, 6-7=-4511/0, 7-8=-9413/0, 8-9=-9514/0, 9-10=-9721/0

BOT CHORD 2-15=0/4465, 14-15=0/4238, 13-14=0/4238, 12-13=0/6340, 12-16=0/6340, 11-16=0/6340,

11-17=0/8545, 17-18=0/8545, 18-19=0/8545,

19-20=0/8545, 10-20=0/8545 6-13=0/3587, 5-13=-412/130, 7-13=-3568/0,

7-11=0/5038

WEBS NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
 - Bottom chords connected as follows: 2x10 4 rows staggered at 0-5-0 oc Web connected as follows: 2x3 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 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 HHUS210-2 (30-10d Girder, 10-10d Truss, Single Ply Girder) or equivalent at 21-10-7 from the left end to connect truss(es) to front face of bottom chord.
- Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 23-11-4 from the left end to 29-11-4 to connect truss(es) to front face of bottom chord.
- 10) 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: 1-6=-70, 6-10=-70, 2-10=-20

Concentrated Loads (lb) Vert: 16=-3464 (F), 17=-546 (F), 18=-546 (F),

19=-546 (F), 20=-548 (F)



June 21,2024



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

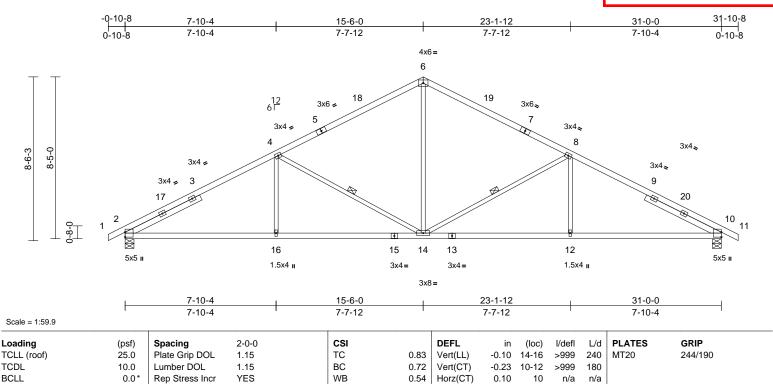


Ply Job Truss Truss Type Qty Roof - HM Lot 182 P241139-01 **H4** 3 1 Common Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372014 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. Thu Jun 2019:152 ID:nYpuvKbhP5gElc4wzwNgspytxiV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV/rCDoi7J4zJ



LUMBER

BOT CHORD

BCDL

TOP CHORD 2x4 SP 1650F 1.5E *Except* 1-5,7-11:2x4 SP

10.0

Code

No.2

2x4 SP No.2 2x3 SPF No.2

WEBS **SLIDER** Left 2x4 SP No.2 -- 4-4-4, Right 2x4 SP No.2

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins.

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

bracing

8-14, 4-14 1 Row at midpt

REACTIONS (size) 2=0-5-8, 10=0-5-8 Max Horiz 2=-111 (LC 10)

Max Grav 2=1456 (LC 1), 10=1456 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-2365/11, 4-6=-1654/72,

6-8=-1654/72, 8-10=-2365/11, 10-11=0/6 2-16=0/1996, 14-16=0/1996, 12-14=0/1996,

BOT CHORD 10-12=0/1996

WEBS 6-14=0/857, 8-14=-760/50, 8-12=0/326,

4-14=-760/50, 4-16=0/326

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-2-11, Interior (1) 2-2-11 to 15-6-0, Exterior (2R) 15-6-0 to 18-7-3, Interior (1) 18-7-3 to 31-10-8 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 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.

Matrix-S

- * 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.
- 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

IRC2018/TPI2014



Weight: 141 lb

FT = 20%

June 21,2024



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 - HM Lot 182 P241139-01 H5 10 1 Common Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372015 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. Thu Jun 2019:152 ID:nYpuvKbhP5gElc4wzwNgspytxiV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK\/rCDoi7J4z.

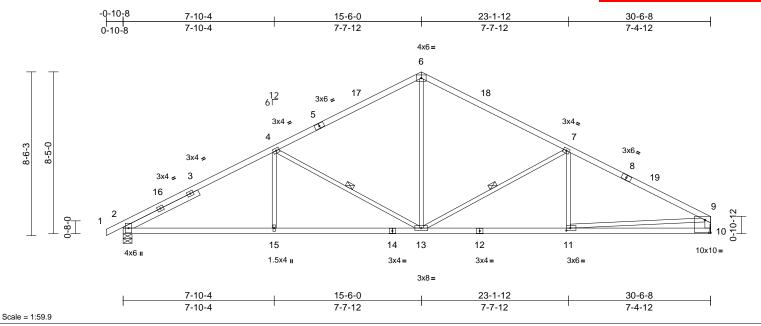


Plate Offsets (X, Y): [2:0-3-9,0-1-5], [10:Edge,0-7-13], [11:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.11	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.24	11-13	>999	180		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 138 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-6:2x4 SP 1650F

1.5E 2x4 SP No.2

BOT CHORD WFBS

2x3 SPF No.2 *Except* 10-9:2x4 SP No.2 **SLIDER**

Left 2x4 SP No.2 -- 4-4-4 **BRACING**

TOP CHORD

Structural wood sheathing directly applied,

except end verticals

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

bracing. WEBS 1 Row at midpt

7-13, 4-13 **REACTIONS** (size) 2=0-5-8, 10= Mechanical

Max Horiz 2=119 (LC 11)

Max Grav 2=1430 (LC 1), 10=1367 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-2311/11, 4-6=-1598/73,

6-7=-1602/74, 7-9=-2187/17, 9-10=-1293/35

BOT CHORD 2-15=0/1949, 13-15=0/1949, 11-13=0/1866,

10-11=-21/383

WFBS 6-13=0/820, 7-13=-680/52, 7-11=0/220.

4-13=-764/50, 4-15=0/325, 9-11=0/1489

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Exterior(2E) -0-10-8 to 2-2-2, Interior (1) 2-2-2 to 15-6-0, Exterior(2R) 15-6-0 to 18-6-10, Interior (1) 18-6-10 to 30-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- 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 21,2024



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 - HM Lot 182	
P241139-01	Н8	Common Supported Gable	1	1	Job Reference (optional)	

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu Jun 2019.1321 ID:vnZN4yYALs9oG?m9k4JkhzytxiZ-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK

DEVELOPMENT SERVICES 166372016 LEE'S SUMMIT. MISSOURI √rCDoi7J4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

15-6-0 30-6-8 15-6-0 15-0-8 4x4= 11 10 12 3x4 -9 13 3x4. 1<u>2</u> 6Г 8 14 15 6 16 17 4x8 = 18 38 19 20 37 36 35 34 33 32 31 30 29 26

Scale = 1:57.9

8-6-3

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.00	21	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 151 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 SLIDER Left 2x4 SP No.2 -- 1-7-0

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

3x4 II

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

bracing.

REACTIONS (size)

2=30-6-8, 21=30-6-8, 22=30-6-8, 23=30-6-8, 24=30-6-8, 25=30-6-8, 26=30-6-8, 27=30-6-8, 28=30-6-8, 29=30-6-8, 31=30-6-8, 32=30-6-8, 33=30-6-8, 34=30-6-8, 35=30-6-8, 36=30-6-8, 37=30-6-8

Max Horiz 2=119 (LC 11)

Max Uplift 2=-6 (LC 8), 21=-11 (LC 11), 22=-40 (LC 12), 23=-4 (LC 12),

24=-8 (LC 12), 25=-7 (LC 12), 26=-6 (LC 12), 27=-10 (LC 12), 28=-1 (LC 12), 31=-1 (LC 12), 32=-10 (LC 12), 33=-6 (LC 12), 34=-7 (LC 12), 35=-7 (LC 12), 36=-7 (LC 12), 37=-12 (LC 12)

Max Grav 2=150 (LC 18), 21=49 (LC 17), 22=146 (LC 18), 23=187 (LC 1), 24=178 (LC 24), 25=180 (LC 1), 26=180 (LC 1), 27=179 (LC 24), 28=189 (LC 24), 29=157 (LC 17), 31=189 (LC 23), 32=179 (LC 23), 33=180 (LC 1), 34=180 (LC 23),

35=179 (LC 1), 36=183 (LC 23), 37=157 (LC 17)

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

TOP CHORD 1-2=0/6, 2-3=-119/104, 3-4=-102/87,

4-5=-96/80, 5-6=-90/73, 6-7=-84/91, 7-9=-78/126, 9-10=-81/162, 10-11=-99/193, 11-12=-99/193, 12-13=-81/162, 13-15=-63/126, 15-16=-48/91, 16-17=-45/57,

3x4=

30-6-8

17-18=-46/23, 18-19=-48/24, 19-20=-82/40,

20-21=-49/18 **BOT CHORD**

2-37=-25/68, 36-37=-25/68, 35-36=-25/68, 34-35=-25/68, 33-34=-25/68, 32-33=-25/68, 31-32=-25/68, 29-31=-25/68, 28-29=-25/68, 27-28=-25/68, 26-27=-25/68, 25-26=-25/68, 24-25=-25/68, 23-24=-25/68, 22-23=-25/68,

21-22=-25/68

WFBS 11-29=-123/26, 10-31=-149/46,

9-32=-139/57, 7-33=-140/52, 6-34=-140/53, 5-35=-140/53, 4-36=-142/55, 3-37=-120/83 12-28=-149/46, 13-27=-139/57, 15-26=-140/52, 16-25=-140/54

17-24=-139/53, 18-23=-145/70, 19-22=-114/100

NOTES

Unbalanced roof live loads have been considered for

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=31ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-10-8 to 2-2-2, Exterior(2N) 2-2-2 to 15-6-0, Corner (3R) 15-6-0 to 18-6-10, Exterior(2N) 18-6-10 to 30-5-4 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

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 11 lb uplift at joint 21, 6 lb uplift at joint 2, 1 lb uplift at joint 31, 10 lb uplift at joint 32, 6 lb uplift at joint 33, 7 lb uplift at joint 34, 7 lb uplift at joint 35, 7 lb uplift at joint 36, 12 lb uplift at joint 37, 1 lb uplift at joint 28, 10 lb uplift at joint 27, 6 lb uplift at joint 26, 7 lb uplift at joint 25, 8 lb uplift at joint 24, 4 lb uplift at joint 23 and 40 lb uplift at joint 22.
- 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 21,2024



🗥 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

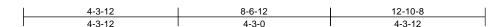


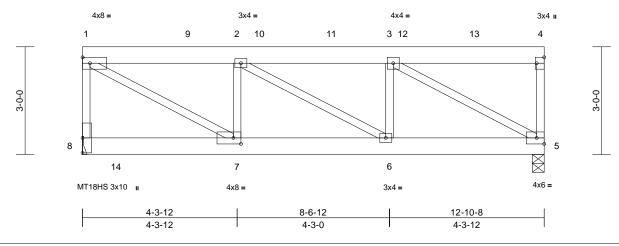
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 182
P241139-01	R1	Flat Girder	1	2	Job Reference (optional)

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. T u Jun 20 19 13 26

LEE'S SUMMIT. MISSOURI ID:4ukXNjh4mFYE5h6Guu?JeHytxiO-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7J4z

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372017





Scale = 1:32.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.44	Vert(LL)	-0.05	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.09	6-7	>999	180	MT18HS	197/144
BCLL	0.0*	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 128 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

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

Max Horiz 8=63 (LC 5)

Max Grav 5=3020 (LC 1), 8=3484 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-8=-2677/0, 1-2=-3973/0, 2-3=-3937/0,

3-4=-66/9, 4-5=-570/0

BOT CHORD 7-8=-31/86, 6-7=0/3973, 5-6=0/3937

WEBS 3-5=-4535/0, 2-7=-2045/0, 1-7=0/4564,

2-6=-45/3. 3-6=-15/108

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x3 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc Web connected as follows: 2x3 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60

- Provide adequate drainage to prevent water ponding.
- 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 5 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- 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

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

Uniform Loads (lb/ft)

Vert: 1-4=-70, 5-8=-20

Concentrated Loads (lb)

Vert: 9=-885, 10=-885, 11=-885, 12=-885, 13=-885, 14 = -937



June 21,2024



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 - HM Lot 182	
P241139-01	VE1	Valley	1	1	Job Reference (optional	

5-9-7

LEE'S SUMMIT. MISSOURI Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. T u Jun 2019 1324

ID:nYpuvKbhP5gElc4wzwNgspytxiV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGK\/rCDoi7J4z

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372018

8-7-13 16-10-6 8-7-13 8-2-10 4x4= 3 1.5x4 ı 1.5x4 II 2 10 11 1<u>2</u> 8 Г 12 9 8 13 7 6 15 3x4 🍃 3x4 =1.5x4 II 1.5x4 II 1.5x4 II 3x4、

Sca	le	=	1	:4	2	.4
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.13	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%

17-3-9

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=17-3-9, 5=17-3-9, 6=17-3-9, 7=17-3-9, 8=17-3-9

Max Horiz 1=-83 (LC 10)

Max Uplift 6=-40 (LC 12), 8=-40 (LC 12)

1=181 (LC 18), 5=175 (LC 1), Max Grav

6=499 (LC 18), 7=342 (LC 17),

8=499 (LC 17)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-122/79, 2-3=-140/105, 3-4=-140/106,

4-5=-101/64

BOT CHORD 1-8=-21/70, 7-8=-21/70, 6-7=-21/70,

5-6=-21/70

3-7=-180/0, 2-8=-340/167, 4-6=-340/167

WEBS 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=25ft; B=45ft; L=24ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-5-12 to 3-5-12, Exterior(2N) 3-5-12 to 8-8-3, Corner (3R) 8-8-3 to 11-8-3, Exterior(2N) 11-8-3 to 16-10-9 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

- 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, with BCDL = 10.0psf.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 8 and 40 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 21,2024



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



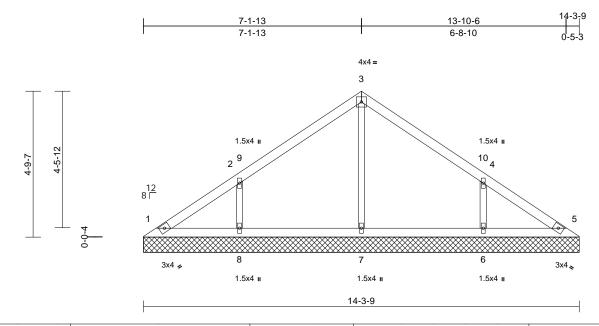
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 182	
P241139-01	VE2	Valley	1	1	Job Reference (optional)	

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu Jun 2019:1524

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372019 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

ID:nYpuvKbhP5gElc4wzwNgspytxiV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKV/rCDoi7J4zJ



Scale = 1:37.8

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	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 51 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=14-3-9, 5=14-3-9, 6=14-3-9,

7=14-3-9, 8=14-3-9 Max Horiz 1=68 (LC 11)

Max Uplift 6=-34 (LC 12), 8=-34 (LC 12)

1=110 (LC 1), 5=110 (LC 1), 6=361 Max Grav

(LC 24), 7=280 (LC 1), 8=361 (LC

23)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-101/52, 2-3=-140/93, 3-4=-140/93,

4-5=-84/35

BOT CHORD 1-8=-11/57, 7-8=-11/57, 6-7=-11/57,

5-6=-11/57

WEBS 3-7=-198/0, 2-8=-285/163, 4-6=-285/163

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=25ft; B=45ft; L=24ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-5-12 to 3-5-12, Exterior(2N) 3-5-12 to 7-2-3, Corner (3R) 7-2-3 to 10-2-3, Exterior(2N) 10-2-3 to 13-10-9 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

- 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 34 lb uplift at joint 8 and 34 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 21,2024





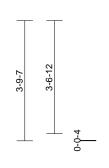
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 182	
P241139-01	VE3	Valley	1	1	Job Reference (optional	

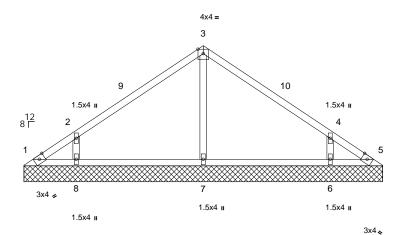
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. T ju Jun 20 9:1324

DEVELOPMENT SERVICES 166372020 LEE'S SUMMIT. MISSOURI ID:VpwJRq1S9cM7rXwcd3aw49zZPSb-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDoi1J42

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW







11-3-9

Scale = 1:36.3

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	0.37	Vert(LL)	n/a	-	n/a	999	MT20	197/144
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	0.07	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=11-3-9, 5=11-3-9, 6=11-3-9,

7=11-3-9, 8=11-3-9 Max Horiz 1=-54 (LC 10)

Max Uplift 1=-29 (LC 10), 5=-18 (LC 11),

6=-34 (LC 12), 8=-34 (LC 12)

1=29 (LC 11), 5=20 (LC 12), 6=339 (LC 24), 7=298 (LC 1), 8=339 (LC

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-68/52, 2-3=-128/81, 3-4=-128/80,

4-5=-63/41

BOT CHORD 1-8=-8/45, 7-8=-8/45, 6-7=-8/45, 5-6=-8/45 WEBS 3-7=-212/29, 2-8=-281/194, 4-6=-281/194

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=25ft; B=45ft; L=24ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed: MWFRS (directional) and C-C Corner(3E) 0-4-3 to 3-4-3, Exterior(2N) 3-4-3 to 5-8-3, Corner(3R) 5-8-3 to 8-8-3, Exterior(2N) 8-8-3 to 11-0-2 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 SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 29 lb uplift at joint 1, 18 lb uplift at joint 5, 34 lb uplift at joint 8 and 34 lb uplift at joint 6.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 21,2024



🗥 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



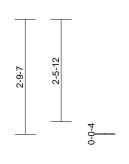
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 182	
P241139-01	VE7	Valley	1	1	Job Reference (optional)	

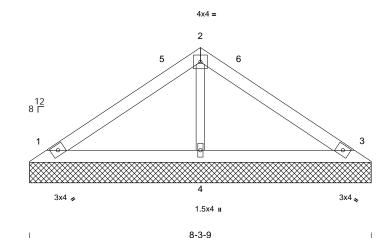
Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu Jun 2019:1527

LEE'S SUMMIT. MISSOURI ID:FkNG7gcJAPo5Mmf6XdvvO0ytxiU-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi7J4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372021

4-1-13 7-10-6 4-1-13 3-8-10





Scale = 1:28

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.30	Vert(LL)	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	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 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=8-3-9, 3=8-3-9, 4=8-3-9

Max Horiz 1=-37 (LC 10) Max Uplift 1=-11 (LC 12), 3=-11 (LC 12)

Max Grav 1=187 (LC 1), 3=187 (LC 1), 4=291

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-112/63, 2-3=-112/57 **BOT CHORD** 1-4=-1/47, 3-4=-1/47

WFBS 2-4=-199/77

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-5-12 to 3-5-12, Exterior(2N) 3-5-12 to 4-2-3, Corner (3R) 4-2-3 to 7-2-3, Exterior(2N) 7-2-3 to 7-10-9 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be 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 11 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



June 21,2024



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



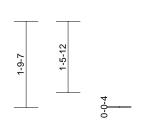
						_
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 182	
P241139-01	VE8	Valley	1	1	Job Reference (optional)	

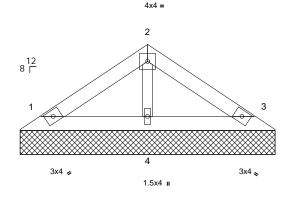
DEVELOPMENT SERVICES 166372022 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. T u Jun 20 9:132/03/2 9:124 ID:FkNG7gcJAPo5Mmf6XdvvO0ytxiU-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7J4zd

		5-3-9
2-7-13	4-10-6	
2-7-13	2-2-10	0-5-3





5-3-9

Scale = 1:23.9

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	0.10	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	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 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

5-4-5 oc purlins.

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

bracing.

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

Max Horiz 1=22 (LC 11)

Max Uplift 1=-7 (LC 12), 3=-7 (LC 12) Max Grav 1=111 (LC 1), 3=111 (LC 1), 4=173

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-66/31, 2-3=-66/31 **BOT CHORD** 1-4=0/28, 3-4=0/28 WFBS 2-4=-118/41

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) 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 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 7 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



June 21,2024



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

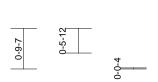


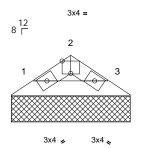
Job	Truss	Truss Type	Qty	Ply	Roof - HM Lot 182	
P241139-01	VE9	Valley	1	1	Job Reference (optional)	

ID:FkNG7gcJAPo5Mmf6XdvvO0ytxiU-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi7J4z5

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166372023 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION





2-3-9

Scale = 1:22.3

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

-												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.01	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

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-4-5 oc purlins.

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

bracing.

REACTIONS (size) 1=2-3-9, 3=2-3-9

Max Horiz 1=-7 (LC 10)

Max Grav 1=63 (LC 1), 3=63 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-55/22, 2-3=-55/22

BOT CHORD 1-3=-7/37

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) 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.
- 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.
- 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 21,2024



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



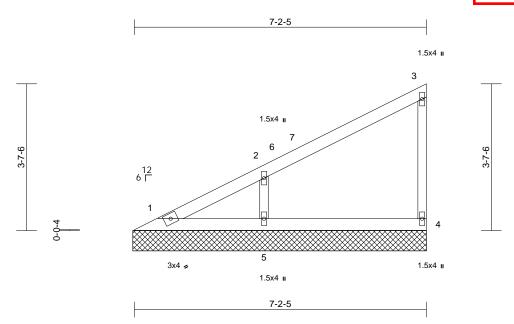
Job Truss Truss Type Qty Ply Roof - HM Lot 182 P241139-01 **VG10** Valley 1

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

DEVELOPMENT SERVICES 166372024 LEE'S SUMMIT, MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu Jun 2019:152 ID:kwweK0dxxiwx_wEJ5LQ8xEytxiT-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\ VrCDoi7J4z



Scale = 1:28.4

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	0.23	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.06	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 1=7-2-13, 4=7-2-13, 5=7-2-13

Max Horiz 1=86 (LC 11)

Max Uplift 4=-2 (LC 9), 5=-14 (LC 12) 1=73 (LC 18), 4=141 (LC 1), 5=377 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-224/123, 2-3=-100/75, 3-4=-110/116

BOT CHORD 1-5=-43/57. 4-5=-43/57

WFBS 2-5=-293/250

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-7-9 to 3-7-9, Exterior(2N) 3-7-9 to 7-1-9 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 2 lb uplift at joint 4 and 14 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 21,2024



🗥 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 - HM Lot 182 P241139-01 VG11 Valley 1

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

DEVELOPMENT SERVICES 166372025 LEE'S SUMMIT, MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu Jun 2019:1527 ID:kwweK0dxxiwx_wEJ5LQ8xEytxiT-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\ VrCDoi7J4z

4-6-5 1.5x4 II 2 5 3 3x4 -1.5x4 II 4-6-5

Scale = 1:22.1

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 15 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-6-13 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=4-6-5, 3=4-6-5

Max Horiz 1=51 (LC 9)

Max Grav 1=172 (LC 1), 3=172 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-104/64, 2-3=-134/156

BOT CHORD 1-3=-25/34

NOTES

FORCES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-7-9 to 3-7-9, Exterior(2N) 3-7-9 to 4-5-9 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
- 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.
- 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 21,2024



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Job Truss Truss Type Qty Ply Roof - HM Lot 182 P241139-01 VG12 Valley 1

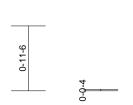
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

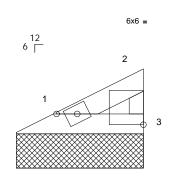
DEVELOPMENT SERVICES 166372026 LEE'S SUMMIT, MISSOURI Job Reference (optional Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. Thu Jun 20 19:152

ID:kwweK0dxxiwx_wEJ5LQ8xEytxiT-RfC?PsB70Hq3NSgPqnL8w3uITXbGK vrCDoi7J4z،

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

1-10-5







3x4 -

1-10-5

Scale = 1:16.8

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

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	0.02	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	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: 5 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-13 oc purlins, except end verticals.

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

bracing.

REACTIONS 1=1-10-5, 3=1-10-5 (size)

Max Horiz 1=16 (LC 9)

Max Grav 1=52 (LC 1), 3=52 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-25/17, 2-3=-41/31

BOT CHORD 1-3=-8/8

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) 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 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.
- 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 21,2024



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Job Truss Truss Type Qty Ply Roof - HM Lot 182 P241139-01 VG13 Valley 1

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

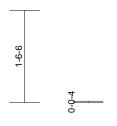
DEVELOPMENT SERVICES 166372027 LEE'S SUMMIT, MISSOURI Job Reference (optional

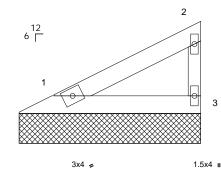
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. T ju Jun 20 19:1527 ID:kwweK0dxxiwx_wEJ5LQ8xEytxiT-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\ vrCDoi7J4z،

3-0-5

1.5x4 II





3-0-5

Scale = 1:19.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 9 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-13 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=31 (LC 11)

Max Grav 1=105 (LC 1), 3=105 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-49/35, 2-3=-82/62

BOT CHORD 1-3=-15/17

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) 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 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.

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 21,2024



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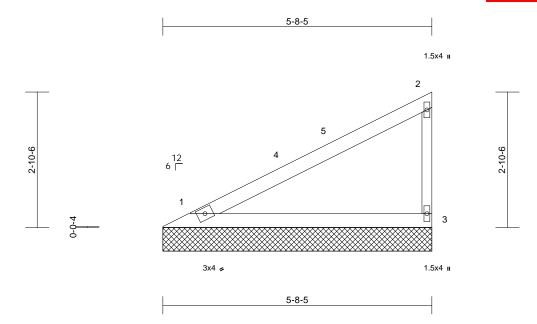
Job Truss Truss Type Qty Ply Roof - HM Lot 182 P241139-01 VG14 Valley 1

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

DEVELOPMENT SERVICES 166372028 LEE'S SUMMIT, MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Run: 8.63 S Apr 26 2024 Print: 8.630 S Apr 26 2024 MiTek Industries, Inc. T ju Jun 20 19:1527 ID:kwweK0dxxiwx_wEJ5LQ8xEytxiT-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\ VrCDoi7J4z



Scale = 1:24.4

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	0.58	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.31	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: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-13 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=67 (LC 9)

Max Grav 1=225 (LC 1), 3=225 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-129/83, 2-3=-175/189

BOT CHORD 1-3=-33/44

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Ke=0.97; Cat. II; Exp B; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-7-9 to 3-7-9, Exterior(2N) 3-7-9 to 5-7-9 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
- 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.
- 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 21,2024



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RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT MISSOURI Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.

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

connector plates.

This symbol indicates the required direction of slots in ₹

edge of truss.

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

PLATE SIZE

4 × 4

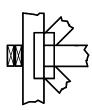
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

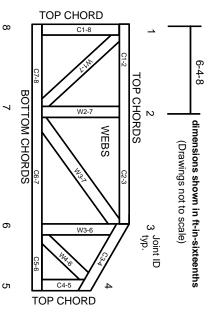
Industry Standards:

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

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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

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

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