

09/30/2024



RE: P240957-01 - Roof - HT Lot 82

MiTek, Inc.

16023 Swingley Ridge Rd.

Project Name: Somerset - Mediterranean 3,747,434.1200 63017 Project Customer: Clayton Properties Lot/Block: 82

Subdivision: Hawthorne Ridge

Model:

Site Information:

Address: 1531 SW Arbor Valley Dr

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

Drawings Show Special Loading Conditions):

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

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

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

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

No. 123456789	Seal# 168191243 168191244 168191245 168191247 168191248 168191249 168191250	Truss Name A2 A3 A4 A5 A6 A7 A8 A9 A10	9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24	No. 35 36 37 38 39 40 41 42 43	Seal# 168191277 168191279 168191279 168191281 168191282 168191283 168191284 168191285	Truss Name J5 J6 J7 J8 J9 J10 LG1 LG2 LG3	9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24
9 101 12 13 14 15 17 18 19 22 22 23 24 25 26	I68191251 I68191252 I68191254 I68191255 I68191255 I68191257 I68191259 I68191260 I68191261 I68191263 I68191264 I68191264 I68191266 I68191266 I68191266 I68191267 I68191267	A10 A112 A13 A14 A15 B12 B3 CCGG1 BCGG3 DD2 DD3	9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24	43 445 46 47 48 49 551 52 53 54	I68191285 I68191288 I68191287 I68191289 I68191290 I68191291 I68191292 I68191293 I68191294 I68191295 I68191296	LG3 LG6 LG8 LG9 V1 V2 V3 V4 V5 V6 V7	9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24 9/16/24

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

Truss Design Engineer's Name: Sevier, Scott

168191273 168191274 168191275 168191276

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

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



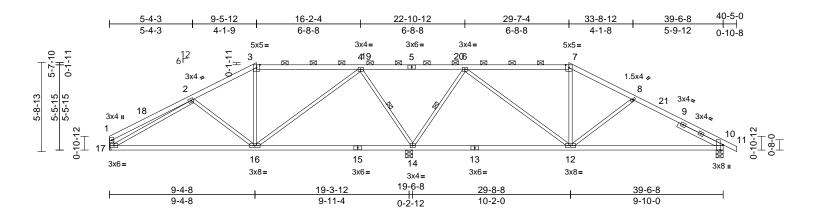
September 16,2024

Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A2	Hip	1	1	Job Reference (option

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 6 2 ID:UmtYoCC9xVBvGd3RnaaoYZzXLW1-RfC?PsB70Hq3NSgPqnL8w3ulTXt GKWrCDeff J42JC?

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191243



Scale = 1:74.2

Plate Offsets (X, Y): [10:0-4-1,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	0.78	Vert(LL)	-0.20	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.41	10-12	>588	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.03	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 173 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 17-1:2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -- 3-2-10

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-4-14 oc purlins, except end verticals, and

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

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

WFBS 1 Row at midpt 4-14, 6-14

REACTIONS (size) 10=0-5-8, 14=0-5-8, 17=

Mechanical 17=-105 (LC 13)

Max Horiz 10=-170 (LC 13), 14=-310 (LC 9), Max Uplift

17=-122 (LC 12)

Max Grav 10=829 (LC 26), 14=2089 (LC 1),

17=731 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=-369/80, 2-3=-744/176, 3-4=-611/181, 4-6=-48/585, 6-7=-662/192, 7-8=-800/182,

8-10=-1109/256, 10-11=0/6, 1-17=-301/102

BOT CHORD 16-17=-184/814, 14-16=-61/110,

12-14=-29/100. 10-12=-132/907 WFBS 3-16=-66/111, 4-16=-64/703, 7-12=-58/129,

2-17=-652/148, 2-16=-265/207,

8-12=-317/218, 4-14=-1108/281

6-14=-1135/267, 6-12=-65/740

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-2-11, Interior (1) 5-2-11 to 9-5-12, Exterior(2R) 9-5-12 to 16-6-10, Interior (1) 16-6-10 to 29-7-4, Exterior(2R) 29-7-4 to 36-8-2, Interior (1) 36-8-2 to 40-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 14 SP No.2 crushing capacity of 565 psi, Joint 10 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 122 lb uplift at joint 17, 170 lb uplift at joint 10 and 310 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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



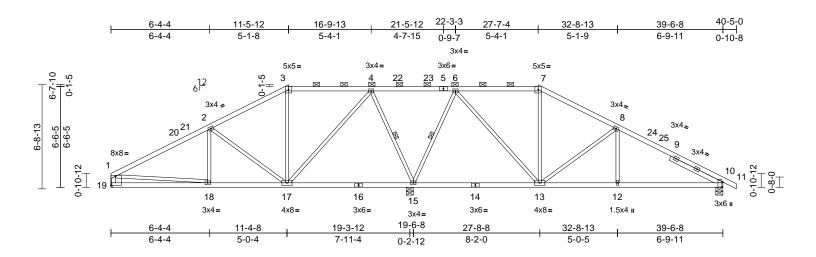
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A3	Hip	1	1	Job Reference (option

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191244 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 63 ID:FIMaTxIA3yBmEsg_FFjgtFzXLVv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7342J8



Scale = 1:74.4

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	0.53	Vert(LL)	-0.08	13-15	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.16	13-15	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 184 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 19-1:2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -- 3-9-4

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 5-0-6 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.

Rigid ceiling directly applied or 6-0-0 oc

bracing.

WFBS 1 Row at midpt 4-15, 6-15

REACTIONS (size) 10=0-5-8, 15=0-5-8, 19=

> Mechanical 19=-124 (LC 13) Max Horiz

10=-192 (LC 13), 15=-230 (LC 9), Max Uplift

19=-140 (LC 12) Max Grav

10=831 (LC 26), 15=2106 (LC 1), 19=726 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-993/207, 2-3=-559/192, 3-4=-422/206,

4-6=0/517, 6-7=-470/234, 7-8=-610/224,

8-10=-1117/267, 10-11=0/6, 1-19=-662/175

BOT CHORD 18-19=-152/291, 17-18=-192/808, 15-17=-130/124, 13-15=-124/93,

12-13=-131/904. 10-12=-131/904

2-18=0/186, 2-17=-491/205, 3-17=-125/54,

7-13=-117/59, 8-13=-553/217, 8-12=0/239,

1-18=-59/545, 4-15=-1040/223

4-17=-93/730, 6-15=-1062/220, 6-13=-83/757

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 11-5-12, Exterior(2R) 11-5-12 to 18-6-10, Interior (1) 18-6-10 to 27-7-4, Exterior(2R) 27-7-4 to 34-8-2, Interior (1) 34-8-2 to 40-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 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.
- Bearings are assumed to be: , Joint 15 SP No.2 crushing capacity of 565 psi, Joint 10 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 8) bearing plate capable of withstanding 140 lb uplift at joint 19, 192 lb uplift at joint 10 and 230 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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

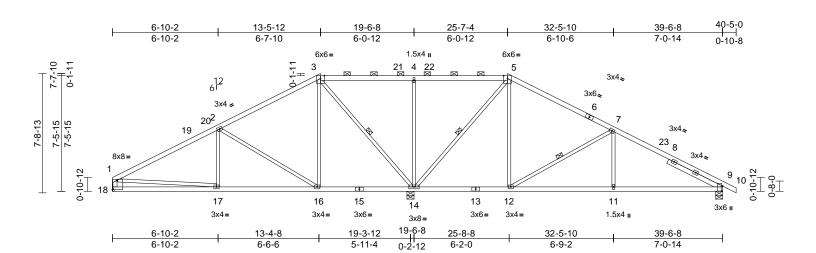


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A4	Hip	1	1	Job Reference (option

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 15 7 ID:jVvyhHJoqGKdr0FApzEvPSzXLVu-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl WrCDoi 34z36

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191245 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:74.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.06	9-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.13	9-11	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.03	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 186 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 18-1:2x4 SP No.2 WEBS

SLIDER Right 2x4 SP No.2 -- 3-11-0

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or 5-0-10 oc purlins, except end verticals, and

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

bracing.

WFBS 1 Row at midpt 5-14, 7-12, 3-14

REACTIONS (size) 9=0-5-8, 14=0-5-8, 18= Mechanical

Max Horiz 18=-142 (LC 17)

Max Uplift 9=-191 (LC 13), 14=-170 (LC 9), 18=-138 (LC 12)

Max Grav 9=810 (LC 26), 14=2175 (LC 1),

18=706 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-956/199. 2-3=-365/156. 3-4=0/505.

4-5=0/505, 5-7=-410/193, 7-9=-1081/265,

9-10=0/6, 1-18=-642/174

17-18=-174/307, 16-17=-203/773,

14-16=-20/233, 12-14=0/255

11-12=-130/876, 9-11=-130/876 WEBS 2-17=0/256, 2-16=-652/248, 3-16=-56/468,

5-14=-1044/154, 5-12=-54/483,

7-12=-717/263, 7-11=0/300, 1-17=-40/502,

3-14=-1017/166, 4-14=-478/224

NOTES

BOT CHORD

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 13-5-12, Exterior(2R) 13-5-12 to 20-6-10, Interior (1) 20-6-10 to 25-7-4, Exterior(2R) 25-7-4 to 32-5-10, Interior (1) 32-5-10 to 40-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 14 SP No.2 crushing capacity of 565 psi, Joint 9 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 18, 191 lb uplift at joint 9 and 170 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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

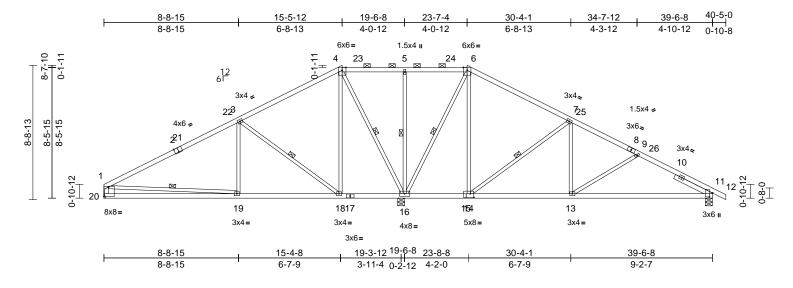


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A5	Hip	1	1	Job Reference (options

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 637 ID:jVvyhHJoqGKdr0FApzEvPSzXLVu-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7y4z36

DEVELOPMENT SERVICES 168191246 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:74.9

Plate Offsets (X, Y):	[2:0-3-0,Edge], [11:	0-3-1,0-2-5], [14:0-2-	12,0-3-0], [20:Edge,0-7-4]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.18	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.72	Vert(CT)	-0.36	11-13	>661	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.03	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 195 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 2-4,6-8:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 20-1:2x4 SP No.2 WFBS

SLIDER Right 2x4 SP No.2 -- 2-8-6

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals, and 2-0-0 oc purlins

(10-0-0 max.): 4-6.

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

bracing.

WEBS 1 Row at midpt 3-18, 6-16, 7-14, 1-19,

5-16. 4-16

REACTIONS (size) 11=0-5-8, 16=0-5-8, 20=

Mechanical

20=-161 (LC 13) Max Horiz

Max Uplift 11=-179 (LC 13), 16=-189 (LC 12),

20=-136 (LC 12)

Max Grav 11=786 (LC 26), 16=2238 (LC 1),

20=703 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-864/176, 3-4=-178/188, 4-5=0/541,

5-6=0/541, 6-7=-151/208, 7-9=-775/220,

9-11=-1050/281, 11-12=0/6, 1-20=-623/184

BOT CHORD 19-20=-250/459, 18-19=-175/664,

16-18=-141/258. 14-16=-113/178.

13-14=-26/649, 11-13=-163/858 3-19=0/338, 3-18=-785/282, 4-18=-108/557,

6-16=-1053/187, 6-14=-93/546,

7-14=-773/253, 7-13=0/407, 1-19=-41/224,

5-16=-304/147, 4-16=-1023/189,

9-13=-255/160

NOTES

WEBS

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 15-5-12, Exterior(2R) 15-5-12 to 22-6-10, Interior (1) 22-6-10 to 23-7-4, Exterior(2R) 23-7-4 to 30-8-2, Interior (1) 30-8-2 to 40-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 16 SP No.2 crushing capacity of 565 psi, Joint 11 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 20, 179 lb uplift at joint 11 and 189 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A6	Hip	1	1	Job Reference (options

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 15 7 Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

6-7-12

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191247 LEE'S SUMMIT. MISSOURI

6-11-8

ID:ChTKudKRbaSUT9qMNgl8ygzXLVt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoFe

RELEASE FOR CONSTRUCTION

40-5-0 11-8-13 17-5-12 21-7-4 32-7-0 6-6-2 5-2-11 5-8-15 4-1-8 5-9-0 5-2-12 6-11-8 0-10-8 6x6= 6x6= 5 6 $3x6 = 6 \frac{12}{}$ 1.5x4 _{II} 23 3x6**≈** 9-8-13 9-5-15 23 89 3x4~ 240 19 18 17 15 14 13 8x8= 16 3x6 II 3x8= 3x6= 3x6= 4x4= 3x4= 4x4= 4x4= 19-6-8 6-6-2 13-1-14 19-3-12 25-11-2 32-7-0 39-6-8

Scale = 1:75.1

6-6-2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.06	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.13	11-13	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.01	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 198 lb	FT = 20%

0-2-12

6-4-10

6-7-14

6-1-14

LUMBER

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

2x3 SPF No.2 *Except* 20-1:2x4 SP No.2 WEBS SLIDER Right 2x4 SP No.2 -- 4-3-5

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-6 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 5-6.

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

WFBS

1 Row at midpt 6-16, 5-16 **REACTIONS** (size) 11=0-5-8, 16=0-5-8, 20=

Mechanical Max Horiz 20=-180 (LC 17)

Max Uplift 11=-205 (LC 13), 16=-215 (LC 12),

20=-141 (LC 12)

11=796 (LC 26), 16=2249 (LC 1), Max Grav

20=688 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-918/194, 2-4=-907/338, 4-5=-304/252, 5-6=0/504. 6-7=-352/320. 7-9=-1010/426.

9-11=-1036/280, 11-12=0/6, 1-20=-627/174

BOT CHORD 19-20=-223/328, 18-19=-97/325,

16-18=-271/232. 14-16=-267/187.

13-14=-28/376, 11-13=-140/831 1-19=-14/462, 6-16=-1091/220,

5-16=-1073/251, 7-14=-681/321,

6-14=-259/866, 7-13=-235/735, 9-13=-414/263, 2-19=-422/259,

4-19=-223/667, 4-18=-648/316,

5-18=-255/837

NOTES

WEBS

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 17-5-12, Exterior(2E) 17-5-12 to 21-7-4, Exterior(2R) 21-7-4 to 28-8-2, Interior (1) 28-8-2 to 40-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 16 SP No.2 crushing capacity of 565 psi, Joint 11 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 20, 205 lb uplift at joint 11 and 215 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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

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



Ply Truss Type Job Truss Qty Roof - HT Lot 82 P240957-01 Α7 Common Job Reference (optiona

DEVELOPMENT SERVICES 168191248 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 (5) ID:n6oBGcHYIf3vci5nhYCRK1zXLVw-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7

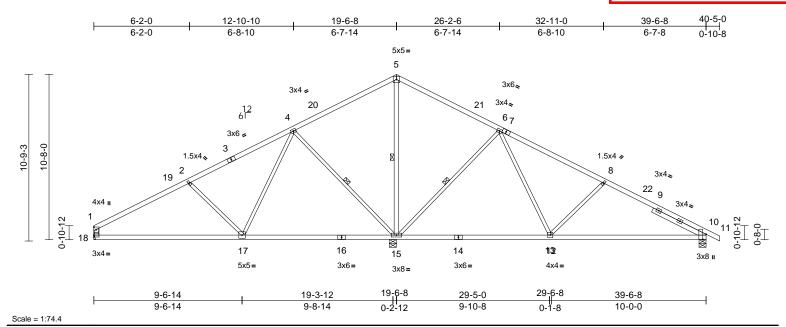


Plate Offsets (X, Y): [10:0-4-1,Edge]

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	0.81	Vert(LL)	-0.22	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.46	10-12	>516	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.02	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 183 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 18-1,5-15:2x4 SP WEBS

No 2 **SLIDER** Right 2x4 SP No.2 -- 3-9-12

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

5-6-11 oc purlins, except end verticals.

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

bracing, Except:

10-0-0 oc bracing: 17-18. 1 Row at midpt

5-15, 6-15, 4-15 REACTIONS (size) 10=0-5-8, 15=0-5-8, 18=

Mechanical

Max Horiz 18=-201 (LC 13)

Max Uplift 10=-164 (LC 13), 15=-353 (LC 12),

18=-87 (LC 12)

10=777 (LC 26), 15=2530 (LC 1), Max Grav

18=527 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-611/134, 2-4=-298/99, 4-5=-60/866, 5-6=-32/867, 6-8=-659/282, 8-10=-980/238,

10-11=0/6, 1-18=-434/136

BOT CHORD 17-18=-212/467, 15-17=-149/274,

13-15=-380/255, 12-13=-226/498,

10-12=-116/794

WFBS 6-13=-72/596, 5-15=-1107/156,

6-15=-858/338, 4-15=-839/335, 2-17=-421/262, 8-12=-451/266, 4-17=-66/548

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-7-4 to 5-7-4, Interior (1) 5-7-4 to 20-0-0, Exterior(2R) 20-0-0 to 25-0-0, Interior (1) 25-0-0 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 15 SP No.2 crushing capacity of 565 psi, Joint 10 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 87 lb uplift at joint 18, 164 lb uplift at joint 10 and 353 lb uplift at joint 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 16,2024



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

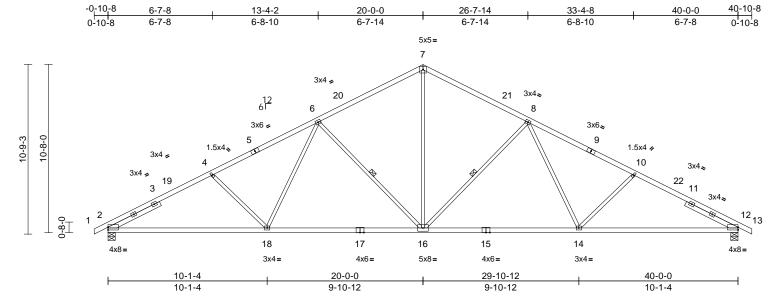


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A8	Common	7	1	Job Reference (options

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 15 15 ID:n6oBGcHYlf3vci5nhYCRK1zXLVw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGrWrCDoi7y4z3

RELEASE FOR CONSTRUCTION DEVELOPMENT SERVICES 168191249 LEE'S SUMMIT. MISSOURI





Scale = 1:73.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.24	2-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.52	2-18	>920	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.16	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 184 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP 1650F 1.5E *Except* 17-15:2x4 SP

No.2

WFBS 2x3 SPF No 2

SLIDER Left 2x4 SP No.2 -- 3-8-0, Right 2x4 SP No.2

-- 3-8-0

BRACING TOP CHORD

TOP CHORD

Structural wood sheathing directly applied or

2-2-0 oc purlins.

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

bracing WFBS

6-16. 8-16 1 Row at midpt

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

Max Horiz 2=-197 (LC 17)

Max Uplift 2=-296 (LC 12), 12=-296 (LC 13)

Max Grav 2=1861 (LC 1), 12=1861 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-4=-3186/509, 4-6=-2895/488,

6-7=-2088/461, 7-8=-2088/461,

8-10=-2895/488, 10-12=-3186/509, 12-13=0/6

BOT CHORD 2-18=-540/2717, 16-18=-340/2311,

14-16=-225/2311, 12-14=-347/2717 **WEBS** 7-16=-212/1353, 4-18=-328/251,

6-18=-55/503, 6-16=-818/330,

8-16=-818/330, 8-14=-55/503,

10-14=-328/251

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 20-0-0, Exterior(2R) 20-0-0 to 25-0-0, Interior (1) 25-0-0 to 40-10-8 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.
- All bearings are assumed to be SP 1650F 1.5E crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 296 lb uplift at joint 2 and 296 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 16,2024



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



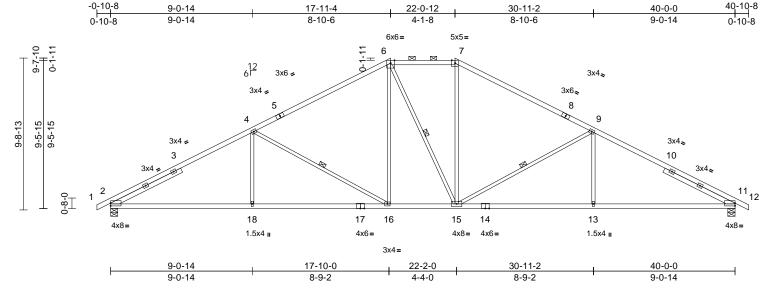
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A9	Hip	1	1	Job Reference (option

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191250 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 15 8

ID:rkgRrwGlm1pCMOxPa79zFczXLVy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDol



Scale = 1:73.8

Plate Offsets (X, Y):	[2:Edge,0-2-1],	[11:Edge,0-2-1]
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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	0.89	Vert(LL)	-0.17	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.40	16-18	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.80	Horz(CT)	0.16	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 190 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E *Except* 6-7:2x4 SP

No.2, 1-5,8-12:2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SP 1650F 1.5E *Except* 17-14:2x4 SP

No.2

WEBS 2x3 SPF No.2

SLIDER Left 2x4 SP No.2 -- 5-0-7, Right 2x4 SP No.2

-- 5-0-7

BRACING TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (3-9-4 max.): 6-7. BOT CHORD

Rigid ceiling directly applied or 9-0-8 oc bracing

WEBS 1 Row at midpt 4-16, 6-15, 9-15

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

Max Horiz 2=176 (LC 12)

Max Uplift 2=-280 (LC 12), 11=-280 (LC 13)

Max Grav 2=1861 (LC 1), 11=1861 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/6, 2-4=-3155/479, 4-6=-2326/455.

6-7=-1947/467, 7-9=-2327/455, 9-11=-3154/479, 11-12=0/6

BOT CHORD 2-18=-425/2685, 16-18=-425/2685,

15-16=-133/1946, 13-15=-317/2685,

11-13=-317/2685

WEBS 4-18=0/392, 4-16=-865/333, 6-16=-87/540,

6-15=-248/253, 7-15=-71/531,

9-15=-863/333, 9-13=0/391

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 17-11-4, Exterior(2E) 17-11-4 to 22-0-12, Exterior(2R) 22-0-12 to 29-1-10, Interior (1) 29-1-10 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP 1650F 1.5E crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 280 lb uplift at
- joint 2 and 280 lb uplift at joint 11. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and
- R802.10.2 and referenced standard ANSI/TPI 1. Graphical purlin representation does not depict the size
- or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024

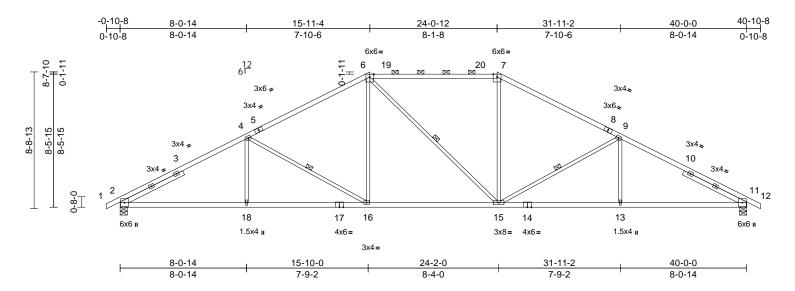


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A10	Hip	1	1	Job Reference (option

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 15 15 ID:NX63eaFg?khLIEMC0PekiPzXLVz-RfC?PsB70Hq3NSgPqnL8w3uITXbGrWrCDoi794z3

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191251 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:73.5

Plate Offsets (X, Y): [2:0-3-9,0-0-5], [11:0-3-9,0-0-5]

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	0.80	Vert(LL)	-0.17	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.38	15-16	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 184 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E *Except* 1-5.8-12:2x4 SP

No.2

BOT CHORD 2x4 SP No.2 2x3 SPF No 2 WFBS

SLIDER Left 2x4 SP No.2 -- 4-5-11, Right 2x4 SP

No.2 -- 4-5-11

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except 2-0-0 oc purlins (4-1-3 max.): 6-7.

BOT CHORD Rigid ceiling directly applied or 9-3-11 oc

bracing.

WFBS 1 Row at midpt 4-16, 6-15, 9-15

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

Max Horiz 2=-157 (LC 17)

Max Uplift 2=-263 (LC 12), 11=-263 (LC 13)

Max Grav 2=1861 (LC 1), 11=1861 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/6, 2-4=-3183/505, 4-6=-2500/482,

6-7=-2127/490, 7-9=-2500/481,

9-11=-3182/505, 11-12=0/6 **BOT CHORD** 2-18=-394/2711, 16-18=-394/2711,

15-16=-185/2126, 13-15=-349/2710,

11-13=-349/2710

WEBS 4-18=0/326, 4-16=-686/295, 6-16=-48/536,

6-15=-236/238, 7-15=-16/536, 9-15=-686/295, 9-13=0/325

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 15-11-4, Exterior(2R) 15-11-4 to 23-0-2, Interior (1) 23-0-2 to 24-0-12, Exterior(2R) 24-0-12 to 31-1-10, Interior (1) 31-1-10 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 263 lb uplift at joint 2 and 263 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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

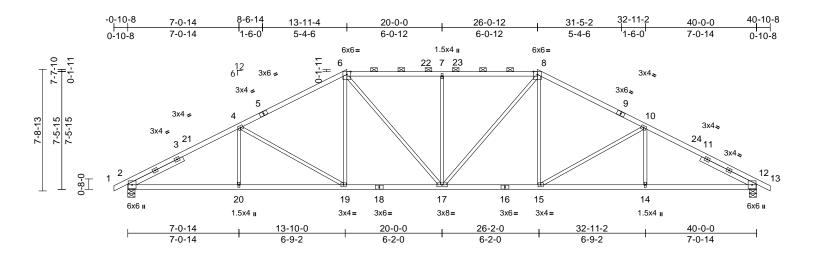


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A11	Hip	1	1	Job Reference (optic

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191252 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 6 28 ID:vLYhQEE2EQZU75n0Ti7VABzXLW_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCD67



Scale = 1:73.3

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	0.84	Vert(LL)	-0.20	17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.38	15-17	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.17	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 189 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 5-6,8-9:2x4 SP 1650F

1.5E 2x4 SP No.2

BOT CHORD 2x3 SPF No 2 WFBS

SLIDER Left 2x4 SP No.2 -- 3-11-0, Right 2x4 SP

No.2 -- 3-11-0

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (3-0-9 max.): 6-8. BOT CHORD Rigid ceiling directly applied or 9-8-12 oc

bracing.

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

Max Horiz 2=138 (LC 16)

Max Uplift 2=-243 (LC 12), 12=-243 (LC 13) Max Grav 2=1861 (LC 1), 12=1861 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-4=-3214/504, 4-6=-2650/486,

6-7=-2536/522, 7-8=-2536/522,

8-10=-2650/486, 10-12=-3214/504,

12-13=0/6

BOT CHORD 2-20=-362/2741, 19-20=-362/2741,

17-19=-213/2276, 15-17=-210/2276, 14-15=-358/2741, 12-14=-358/2741

WEBS 4-20=0/285, 4-19=-551/253, 6-19=-50/432,

6-17=-156/572, 7-17=-512/226, 8-17=-156/572, 8-15=-50/432,

10-15=-551/253, 10-14=0/285

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 13-11-4, Exterior(2R) 13-11-4 to 21-0-2, Interior (1) 21-0-2 to 26-0-12, Exterior(2R) 26-0-12 to 32-11-2, Interior (1) 32-11-2 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 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.
- 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 243 lb uplift at joint 2 and 243 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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 - HT Lot 82
P240957-01	A12	Hip	1	1	Job Reference (option

LEE'S SUMMIT. MISSOURI

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 15 18 ID:vLYhQEE2EQZU75n0Ti7VABzXLW_-RfC?PsB70Hq3NSgPqnL8w3ulTXb_GKWrCDoi7J4zJC?1

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191253

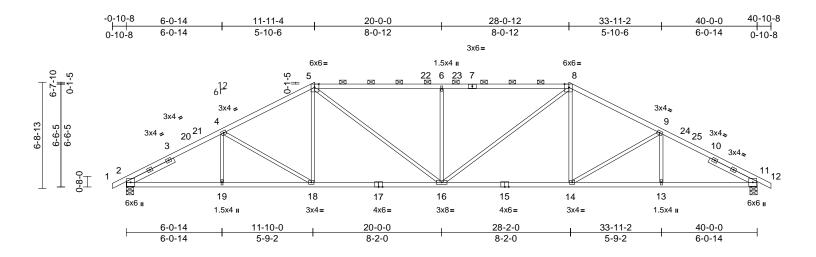


Plate Offsets (X, Y): [2:0-3-9,0-0-5], [5:0-3-5,Edge], [8:0-3-5,Edge], [11:0-3-9,0-0-5]

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	0.99	Vert(LL)	-0.22	16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.45	14-16	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.17	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 183 lb	FT = 20%

LUMBER

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

2.0E

BOT CHORD 2x4 SP No.2 2x3 SPF No 2 WFBS

SLIDER Left 2x4 SP No.2 -- 3-4-5, Right 2x4 SP No.2

-- 3-4-5

BRACING

TOP CHORD

TOP CHORD Structural wood sheathing directly applied,

except

2-0-0 oc purlins (3-11-13 max.): 5-8. BOT CHORD Rigid ceiling directly applied or 9-7-6 oc

bracing.

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

Max Horiz 2=-120 (LC 17)

Max Uplift 2=-220 (LC 12), 11=-220 (LC 13)

Max Grav 2=1861 (LC 1), 11=1861 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-4=-3238/505, 4-5=-2805/488,

5-6=-2980/559, 6-8=-2978/558,

8-9=-2805/488, 9-11=-3237/505, 11-12=0/6 **BOT CHORD** 2-19=-371/2749, 18-19=-371/2749,

16-18=-274/2436, 14-16=-238/2437

13-14=-366/2748, 11-13=-366/2748

4-19=0/217, 4-18=-373/215, 5-18=-26/399,

5-16=-214/840, 6-16=-681/304,

8-16=-214/839, 8-14=-26/398,

9-14=-371/216, 9-13=0/217

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=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 11-11-4, Exterior(2R) 11-11-4 to 19-0-2, Interior (1) 19-0-2 to 28-0-12, Exterior(2R) 28-0-12 to 35-1-10, Interior (1) 35-1-10 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- All plates are 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 11. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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

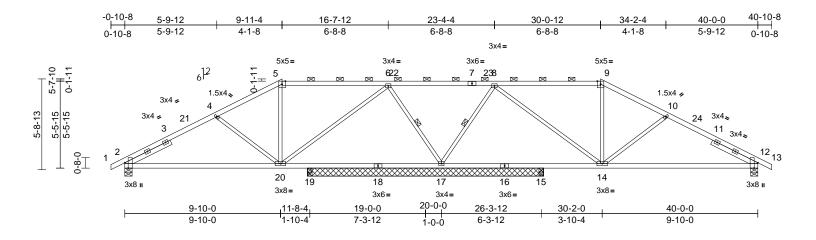


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A13	Hip	1	1	Job Reference (options

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 6 28 ID:R9_IDuEPT6RdVxCqv?cGd_zXLW?-RfC?PsB70Hq3NSgPqnL8w3uITXbCKWrCDoirJ4zd

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191254



Scale = 1:72.8

Plate Offsets (X, Y):	[2:0-4-1,Edge],	[12:0-4-1,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.24	12-14	>693	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.49	12-14	>336	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 175 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 3-2-10, Right 2x4 SP **SLIDER**

No.2 -- 3-2-9

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-5-4 oc purlins, except

2-0-0 oc purlins (6-0-0 max.): 5-9. **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc

bracing.

WEBS 1 Row at midpt 6-17, 8-17

REACTIONS (size) 2=0-5-8, 12=0-5-8, 15=0-3-8, 17=14-11-0, 19=0-3-8

Max Horiz 2=-101 (LC 13)

Max Uplift 2=-163 (LC 12), 12=-176 (LC 13),

17=-351 (LC 9)

2=800 (LC 25), 12=820 (LC 26), Max Grav 15=109 (LC 3), 17=1976 (LC 1),

19=136 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-1042/255, 4-5=-729/203,

5-6=-598/206, 6-8=-51/538, 8-9=-636/210,

9-10=-771/201, 10-12=-1083/273, 12-13=0/6

BOT CHORD 2-20=-223/850, 19-20=-56/103,

17-19=-56/103, 15-17=-24/111,

14-15=-24/111, 12-14=-147/885 WFBS 5-20=-80/89, 6-20=-85/654, 8-14=-76/686,

9-14=-65/107, 4-20=-326/218,

10-14=-321/215, 6-17=-1072/295,

8-17=-1095/281

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 9-11-4, Exterior(2R) 9-11-4 to 17-0-2, Interior (1) 17-0-2 to 30-0-12, Exterior(2R) 30-0-12 to 37-1-10, Interior (1) 37-1-10 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 163 lb uplift at joint 2, 176 lb uplift at joint 12 and 351 lb uplift at joint
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



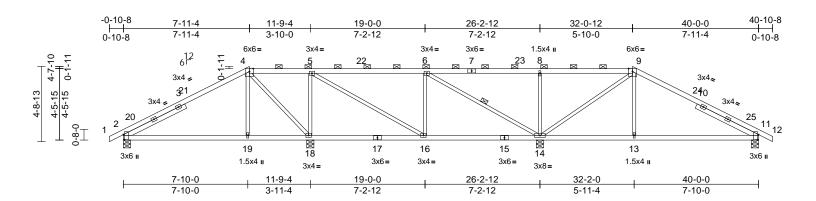


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A14	Hip	1	1	Job Reference (optiona

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 15 9 2 ID:UmtYoCC9xVBvGd3RnaaoYZzXLW1-RfC?PsB70Hq3NSgPqnL8w3ulTXt GKWrCDeff J42JC?

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191255 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:72.5

Plate Offsets (X, Y): [2:0-3-13,0-0-13], [11:0-3-13,0-0-13]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	-0.10	2-19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.22	2-19	>645	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.04	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 177 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E *Except* 4-7,7-9:2x4 SP

No.2

BOT CHORD 2x4 SP No.2 2x3 SPF No 2 WFBS

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

BRACING

WFBS

TOP CHORD Structural wood sheathing directly applied or

5-9-4 oc purlins, except

2-0-0 oc purlins (5-7-1 max.): 4-9. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

1 Row at midpt 6-14

REACTIONS (size) 2=0-5-8, 11=0-5-8, 14=0-5-8,

18=0-5-8

Max Horiz 2=-82 (LC 13)

Max Uplift 2=-213 (LC 12), 11=-197 (LC 13),

14=-265 (LC 9), 18=-161 (LC 8)

Max Grav 2=673 (LC 1), 11=697 (LC 1),

14=1321 (LC 25), 18=1077 (LC 26)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-713/291, 4-5=-288/345,

5-6=-793/360, 6-8=-148/294, 8-9=-149/295, 9-11=-766/245, 11-12=0/6

BOT CHORD 2-19=-207/532, 18-19=-208/528

16-18=-225/286. 14-16=-188/793. 13-14=-95/576, 11-13=-93/580

WEBS 4-19=0/267, 4-18=-378/0, 9-14=-579/33,

9-13=0/301, 5-18=-782/270, 8-14=-488/222,

6-14=-880/227, 6-16=-206/169,

5-16=-147/711

NOTES

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-11-4, Exterior(2R) 7-11-4 to 15-0-2, Interior (1) 15-0-2 to 32-0-12, Exterior(2R) 32-0-12 to 39-1-10, Interior (1) 39-1-10 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) 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.
- 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 213 lb uplift at joint 2, 161 lb uplift at joint 18, 265 lb uplift at joint 14 and 197 lb uplift at joint 11.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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

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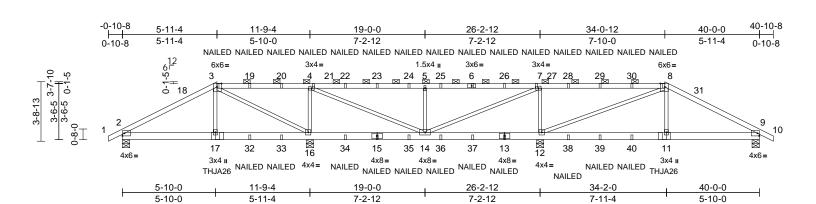


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	A15	Hip Girder	1	2	Job Reference (optional)

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 15 15 ID:84b4JJLh7BiCiTzIU5nc15zXLVr-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWCDoi7J4zd

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191256 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:72.4

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	0.74	Vert(LL)	0.03	14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.05	11-12	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.64	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 344 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 6-8:2x4 SP 1650F

1.5E

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

BRACING

BOT CHORD

Structural wood sheathing directly applied or TOP CHORD

6-0-0 oc purlins, except

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

bracing.

REACTIONS (size) 2=0-5-8, 9=0-5-8, 12=0-5-8,

16=0-5-8 Max Horiz 2=-63 (LC 17)

2=-211 (LC 12), 9=-282 (LC 13), Max Uplift

12=-892 (LC 8), 16=-855 (LC 9) 2=760 (LC 1), 9=986 (LC 26), Max Grav

12=2630 (LC 26), 16=2523 (LC 1)

(lb) - Maximum Compression/Maximum

FORCES

TOP CHORD 1-2=0/11, 2-3=-1009/289, 3-4=-117/432,

4-5=-918/332, 5-7=-918/332, 7-8=-83/313,

8-9=-1508/428, 9-10=0/11

BOT CHORD 2-17=-214/793, 16-17=-214/776,

14-16=-430/212, 12-14=-310/174 11-12=-291/1221, 9-11=-290/1240

WEBS 3-17=-26/559, 8-11=0/670, 4-16=-1561/776,

3-16=-1375/432, 7-12=-1665/853,

8-12=-1651/502, 7-14=-436/1335,

5-14=-925/560, 4-14=-475/1467

NOTES

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

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

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

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00: Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-11-4, Exterior(2R) 5-11-4 to 13-0-2, Interior (1) 13-0-2 to 34-0-12. Exterior(2E) 34-0-12 to 40-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 211 lb uplift at joint 2, 855 lb uplift at joint 16, 892 lb uplift at joint 12 and 282 Ib uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply Right Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 34-0-6 from the left end to
- connect truss(es) to back face of bottom chord 13) Fill all nail holes where hanger is in contact with lumber.

14) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-8=-70, 8-10=-70, 2-9=-20 Concentrated Loads (lb)

Vert: 3=-131 (B), 6=-131 (B), 15=-39 (B), 17=-396 (B), 11=-396 (B), 4=-131 (B), 7=-131 (B), 8=-131 (B), 13=-39 (B), 19=-131 (B), 20=-131 (B), 22=-131 (B), 23=-131 (B), 24=-131 (B), 25=-131 (B), 26=-131 (B), 28=-131 (B), 29=-131 (B), 30=-131 (B), 32=-39 (B), 33=-39 (B), 34=-39 (B), 35=-39 (B), 36=-39 (B), 37=-39 (B), 38=-39 (B), 39=-39 (B), 40=-39 (B)



September 16,2024



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



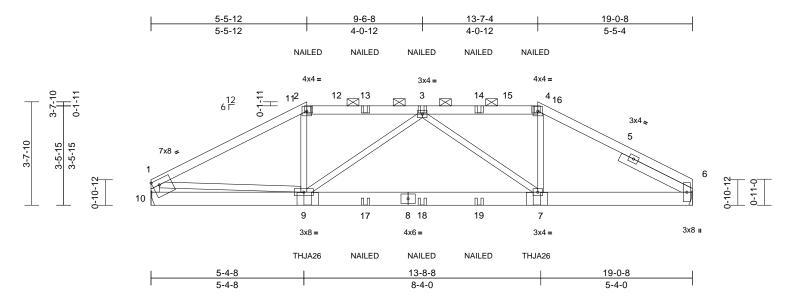
 Job
 Truss
 Truss Type
 Qty
 Ply
 Roof - HT Lot 82

 P240957-01
 B1
 Hip Girder
 1
 2
 Job Reference (optional)

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

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
168191257
LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:40.5

Plate Offsets (X, Y):	[1:Edge,0-2-4],	[6:0-5-9,0-0-13]
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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	0.89	Vert(LL)	0.06	7-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.14	7-9	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 172 lb	FT = 20%

LUMBER

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

WEBS 2x3 SPF No.2 *Except* 10-1:2x4 SP No.2

SLIDER Right 2x4 SP No.2 -- 2-10-0

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-8-2 oc purlins, except end verticals, and

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

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

bracing

REACTIONS (size) 6= Mechanical, 10= Mechanical

Max Horiz 10=-62 (LC 17)

Max Uplift 6=-479 (LC 13), 10=-482 (LC 12) Max Grav 6=1652 (LC 1), 10=1661 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-2789/921, 2-3=-2407/869,

3-4=-2383/869, 4-6=-2873/950,

1-10=-1594/552

BOT CHORD 9-10=-234/535, 7-9=-988/2865

6-7=-728/2409

WEBS 2-9=-140/787, 4-7=-192/970, 1-9=-552/1903,

3-9=-650/361, 3-7=-684/371

NOTES

FORCES

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc.
- Web connected as follows: 2x3 1 row at 0-9-0 oc.

 2) 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.
- 4) Wind: AŠCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 5-5-12, Exterior(2R) 5-5-12 to 12-6-10, Interior (1) 12-6-10 to 13-7-4, Exterior(2E) 13-7-4 to 19-0-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Refer to girder(s) for truss to truss connections.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 479 lb uplift at joint 6 and 482 lb uplift at joint 10.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Goz. 10.2 and referenced standard ANS//TFT 1.

 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 5-6-2 from the left end to connect truss(es) to front face of bottom chord.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 13-6-14 from the left end to connect truss(es) to front face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

 Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-2=-70, 2-4=-70, 4-6=-70, 6-10=-20 Concentrated Loads (lb)

Vert: 2=-131 (F), 4=-131 (F), 9=-420 (F), 7=-420 (F), 3=-131 (F), 13=-131 (F), 14=-131 (F), 17=-39 (F), 18=-39 (F), 19=-39 (F)



September 16,2024

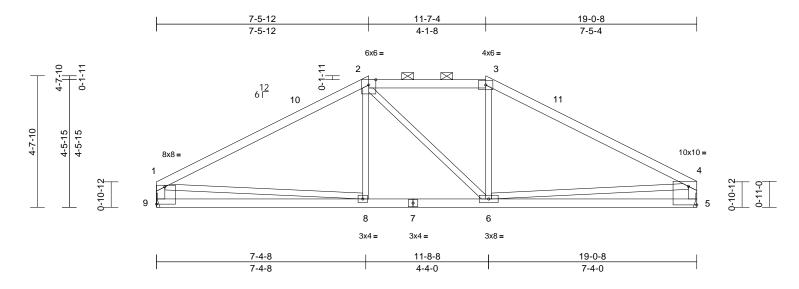




Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	B2	Hip	1	1	Job Reference (option

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 6 D:grt16zL3MtaL5JOYwOGNUtzXLVs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGr WrCDoi N-23-1

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191258 LEE'S SUMMIT. MISSOURI



Scale = 1:40.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.65	Vert(LL)	-0.08	8-9	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.16	8-9	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.18	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 83 lb	FT = 20%

LUMBER

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

No.2

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 9-1,5-4:2x4 SP No.2 WFBS

BRACING

BOT CHORD

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

2-0-0 oc purlins (5-9-4 max.): 2-3. Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 5= Mechanical, 9= Mechanical

Max Horiz 9=77 (LC 9)

Max Uplift 5=-110 (LC 13), 9=-110 (LC 12)

Max Grav 5=844 (LC 1), 9=844 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-1156/278, 2-3=-928/316,

3-4=-1153/277 1-9=-771/245 4-5=-771/244

BOT CHORD 8-9=-206/421, 6-8=-182/931, 5-6=-154/404 WFBS

2-8=0/201. 2-6=-139/134. 3-6=-20/200.

1-8=-46/523, 4-6=-49/531

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-5-12, Exterior(2E) 7-5-12 to 18-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 9 and 110 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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

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



Truss Type Ply Job Truss Qty Roof - HT Lot 82 P240957-01 В3 Common

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

Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191259 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 15 C ID:JwEp3GHwXLx2_YWb8qgCoqzXLVx-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDs/

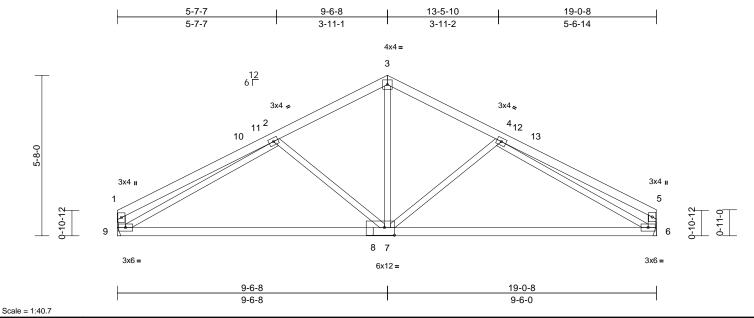


Plate Offsets (X, Y): [8:0-4-4,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	тс	0.34	Vert(LL)	-0.15	`7-9	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.88	Vert(CT)	-0.32	7-9	>712	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 84 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 9-1,6-5:2x4 SP No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-15 oc purlins, except end verticals.

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

bracing.

REACTIONS 6= Mechanical, 9= Mechanical (size)

Max Horiz 9=92 (LC 11)

Max Uplift 6=-126 (LC 13), 9=-126 (LC 12) Max Grav 6=844 (LC 1), 9=844 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-407/119, 2-3=-944/299, 3-4=-944/299, 4-5=-391/116, 1-9=-326/134, 5-6=-318/131

BOT CHORD 7-9=-277/987, 6-7=-257/982

WEBS 3-7=-142/547, 2-9=-818/244, 4-6=-831/246,

2-7=-300/226, 4-7=-294/224

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 9-6-8, Exterior(2R) 9-6-8 to 14-6-8, Interior (1) 14-6-8 to 18-10-12 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.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 9 and 126 lb uplift at joint 6.

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

LOAD CASE(S) Standard



September 16,2024





Job Truss Truss Type Qty Ply Roof - HT Lot 82 P240957-01 C1 Half Hip Girder Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191260 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 6 C ID:qcbaPHHLdVulCuhUQ3lbLgyswd?-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl WrCDoi 3423

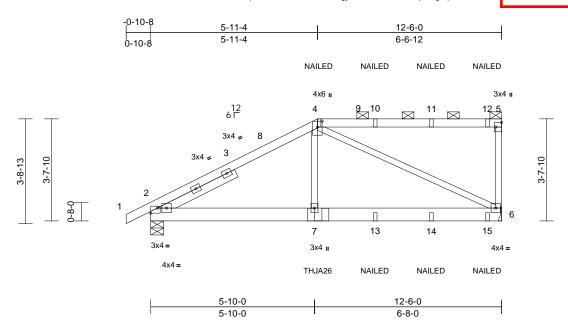


Plate Offsets (X, Y): [2:0-1-15,0-2-0], [2:Edge,0-2-3], [4:0-2-8,0-2-0], [5:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.02	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	-0.05	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.38	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 117 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SPF No.2 2x3 SPF No.2 WEBS

SLIDER Left 2x4 SP No.2 -- 3-0-14

BRACING

Structural wood sheathing directly applied or TOP CHORD

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

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

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

bracing

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

Max Horiz 2=149 (LC 11)

Max Uplift 2=-281 (LC 12), 6=-408 (LC 9)

Max Grav 2=1013 (LC 1), 6=1223 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/11, 2-4=-1504/507, 4-5=-92/105,

5-6=-488/316

BOT CHORD 2-7=-558/1251. 6-7=-558/1233

WEBS 4-7=0/658, 4-6=-1305/532

NOTES

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x4 1 row at 0-9-0 oc, 2x3 - 1 row at 0-9-0 oc.
 - Bottom chords connected as follows: 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 $\dot{\text{CASE}(S)}$ section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-11-4, Exterior(2E) 5-11-4 to 12-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SPF No.2 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 408 lb uplift at joint 6 and 281 lb uplift at joint 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.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to back face of bottom chord.
- 12) Fill all nail holes where hanger is in contact with lumber.
- 13) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-5=-70, 2-6=-20

Concentrated Loads (lb)

Vert: 7=-396 (B), 4=-131 (B), 10=-131 (B), 11=-131 (B), 12=-152 (B), 13=-39 (B), 14=-39 (B), 15=-45 (B)



September 16,2024



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

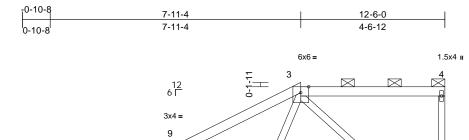


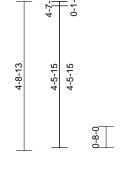
Ply Job Truss Truss Type Qty Roof - HT Lot 82 P240957-01 C2 Half Hip Job Reference (optional

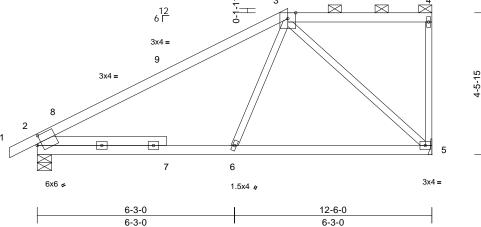
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191261 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th ID:n6oBGcHYlf3vci5nhYCRK1zXLVw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGl WrCDoi794z3e







Scale = 1:36.5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.04	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.50	Vert(CT)	-0.08	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 58 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 -- 4-1-2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

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

Max Horiz 2=188 (LC 9)

Max Uplift 2=-113 (LC 12), 5=-110 (LC 9)

Max Grav 2=621 (LC 1), 5=556 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-3=-710/174, 3-4=-94/96,

4-5=-146/86

BOT CHORD 2-6=-289/499, 5-6=-302/412

WEBS 3-6=0/335, 3-5=-560/336

NOTES

- 1) Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-11-4, Exterior(2E) 7-11-4 to 12-4-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 110 lb uplift at joint 5 and 113 lb uplift at joint 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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 - HT Lot 82 P240957-01 CG1 Diagonal Hip Girder 5

DEVELOPMENT SERVICES 168191262 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th Sep 12 13 15 16 ID:FIMaTxIA3yBmEsg_FFjgtFzXLVv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKVrCDoi7

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

3-8,

4-4-5 8-3-4 -1-2-14 1-2-14 4-4-5 3-10-15 NAILED 4.24 F NAII FD 1.5x4 _{II} NAII FD 5 NAILED 910 3x4 = 3

> NAILED NAILED NAILED NAILED 4-4-5 8-3-4 4-4-5 3-10-15

7

1.5x4 II

12

3x4 =

Scale = 1:39.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.01	2-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.25	Vert(CT)	-0.03	2-7	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.24	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%

11

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 2-3-5

BRACING

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

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

bracing.

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

Max Horiz 2=158 (LC 9)

Max Uplift 2=-140 (LC 8), 6=-117 (LC 12) Max Grav 2=472 (LC 1), 6=385 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/5, 2-4=-580/277, 4-5=-102/76,

5-6=-117/130

BOT CHORD 2-7=-396/471, 6-7=-396/471 WEBS 4-6=-527/398, 4-7=0/216

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 8-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) 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 117 lb uplift at joint 6 and 140 lb uplift at joint 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.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

3x4 II

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

Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-5=-70, 2-6=-20 Concentrated Loads (lb) Vert: 9=-26 (F), 12=-10 (F)



September 16,2024





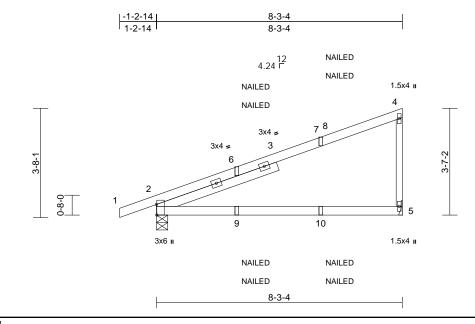


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	CG2	Diagonal Hip Girder	1	1	Job Reference (optional)

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th I Sep 12 13 5 0/3 ID:wdh_2W1wzvqtV91QHVet3zzX6Md-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWrCDord425C?f

DEVELOPMENT SERVICES 168191263 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



Scale = 1:38.8

Plate Offsets (X, Y): [2:0-4-5,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	0.95	Vert(LL)	-0.22	2-5	>454	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.43	2-5	>227	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 4-3-9

BRACING

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

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

REACTIONS (size) 2=0-4-9, 5= Mechanical

Max Horiz 2=158 (LC 9)

Max Uplift 2=-152 (LC 8), 5=-141 (LC 12) Max Grav 2=484 (LC 1), 5=410 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/5, 2-4=-210/113, 4-5=-315/344

BOT CHORD 2-5=-67/73

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 8-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 5 and 152 lb uplift at joint 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.

- 7) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15,
 - Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-70, 2-5=-20 Concentrated Loads (lb)
 - Vert: 7=-53 (F=-26, B=-26), 10=-19 (F=-10, B=-10)



September 16,2024



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

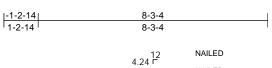


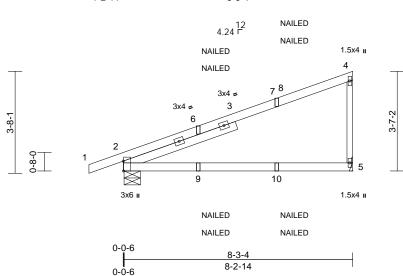
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	CG3	Diagonal Hip Girder	1	1	Job Reference (optional)

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 5 0 1 ID:wdh_2W1wzvqtV91QHVet3zzX6Md-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWrCDord425C?f

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191264 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION





Scale = 1:41.5

Plate Offsets (X, Y): [2:0-4-5,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	0.95	Vert(LL)	-0.22	2-5	>454	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.53	Vert(CT)	-0.43	2-5	>227	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 4-3-9

BRACING

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

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

REACTIONS (size) 2=0-7-0, 5= Mechanical

Max Horiz 2=158 (LC 9)

Max Uplift 2=-152 (LC 8), 5=-141 (LC 12) Max Grav 2=484 (LC 1), 5=410 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/5, 2-4=-210/113, 4-5=-315/344

BOT CHORD 2-5=-67/73

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) -1-2-14 to 5-10-0, Exterior(2R) 5-10-0 to 8-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 5 and 152 lb uplift at joint 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.

- 7) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Plate Increase=1.15 Uniform Loads (lb/ft) Vert: 1-4=-70, 2-5=-20 Concentrated Loads (lb)

Vert: 7=-53 (F=-26, B=-26), 10=-19 (F=-10, B=-10)



September 16,2024







Ply Job Truss Truss Type Qty Roof - HT Lot 82 P240957-01 CG4 Diagonal Hip Girder 2 Job Reference (optional

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

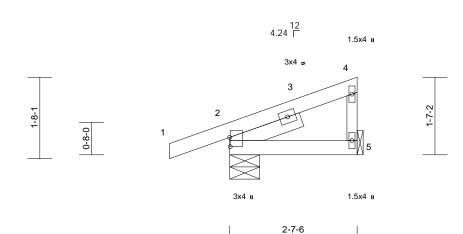
Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 5 1/3 ID:n60BGcHYlf3vci5nhYCRK1zXLVw-RfC?PsB70Hg3NSqPgnL8w3ulTXbGrWrCDgi7v4z3e4 ID:n6oBGcHYlf3vci5nhYCRK1zXLVw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGrWrCDoi7y4z3e

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168191265

LEE'S SUMMIT. MISSOURI

-1-2-14 2-7-6 2-7-6 1-2-14



Scale = 1:23.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.00	2-5	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	0.00	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

LOAD CASE(S) Standard

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

Left 2x4 SP No.2 -- 1-6-7 SLIDER

BRACING

LUMBER

TOP CHORD Structural wood sheathing directly applied or 2-7-6 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-7-6, 5= Mechanical

Max Horiz 2=62 (LC 9)

Max Uplift 2=-89 (LC 8), 5=-24 (LC 12) Max Grav 2=221 (LC 1), 5=92 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/5, 2-4=-68/45, 4-5=-85/113

BOT CHORD 2-5=-26/28

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 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 24 lb uplift at joint 5 and 89 lb uplift at joint 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.



September 16,2024



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

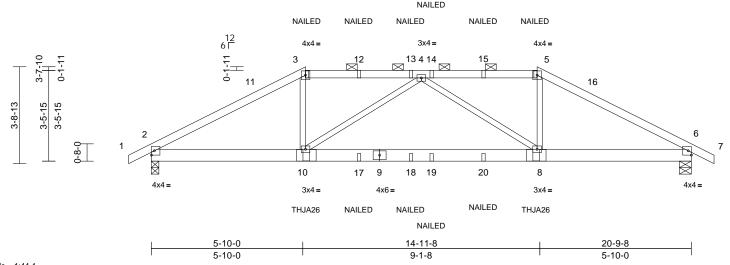


Job Truss Truss Type Qty Ply Roof - HT Lot 82 P240957-01 D1 Hip Girder 2 Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191266 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th Sep 12 13 15 3 ID:wdh_2W1wzvqtV91QHVet3zzX6Md-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoF





Scale = 1:44.4

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	0.58	Vert(LL)	-0.07	8-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.16	8-10	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.03	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 174 lb	FT = 20%

LUMBER

2x4 SP No.2 TOP CHORD **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 2-0-0 oc purlins (6-0-0 max.): 3-5.

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

bracing

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

Max Horiz 2=63 (LC 16)

Max Uplift 2=-560 (LC 12), 6=-565 (LC 13)

Max Grav 2=1877 (LC 1), 6=1891 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/11, 2-3=-3401/1070, 3-4=-2859/984,

4-5=-2835/977, 5-6=-3385/1065, 6-7=0/11

BOT CHORD 2-10=-847/2889, 8-10=-1180/3437,

6-8=-834/2867

WEBS 3-10=-230/1121. 5-8=-233/1134.

4-10=-790/464, 4-8=-815/470

NOTES

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

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

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

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-11-4, Exterior(2R) 5-11-4 to 13-0-2, Interior (1) 13-0-2 to 14-10-4, Exterior(2E) 14-10-4 to 21-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 560 lb uplift at joint 2 and 565 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Right Hand Hip) or equivalent at 5-11-10 from the left end to connect truss(es) to back face of bottom chord.
- 12) Use Simpson Strong-Tie THJA26 (THJA26 on 2 ply, Left Hand Hip) or equivalent at 14-9-14 from the left end to connect truss(es) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.

LOAD CASE(S) Standard

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

Vert: 1-3=-70, 3-5=-70, 5-7=-70, 2-6=-20

Concentrated Loads (lb)

Vert: 3=-131 (B), 5=-131 (B), 10=-420 (B), 8=-420 (B), 12=-131 (B), 13=-131 (B), 14=-131 (B), 15=-131 (B), 17=-39 (B), 18=-39 (B), 19=-39 (B), 20=-39 (B)



September 16,2024



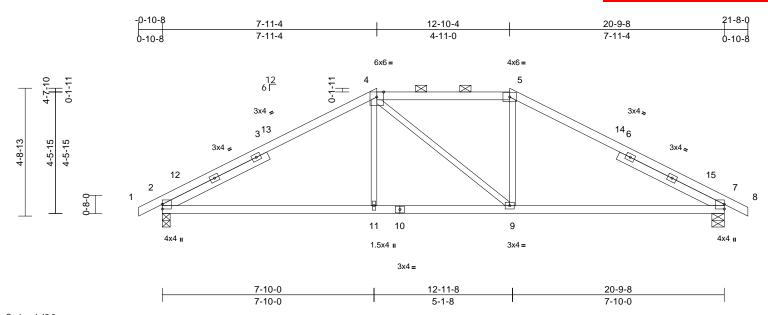
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Ply Truss Type Job Truss Qty Roof - HT Lot 82 P240957-01 D2 Hip Job Reference (optiona RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191267 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th ı Sep 12**13 (5**) ID:OpFMGs2YkDyk7JccrD96cAzX6Mc-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWrCDoFA



Scale = 1:42.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.11	2-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.23	2-11	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 93 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E *Except* 4-5:2x4 SP TOP CHORD

No.2

BOT CHORD 2x4 SP No.2

WEBS 2x3 SPF No.2

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

-- 4-4-2

BRACING

Structural wood sheathing directly applied or TOP CHORD

4-8-0 oc purlins, except

2-0-0 oc purlins (5-3-7 max.): 4-5. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 7=0-5-8

Max Horiz 2=82 (LC 12)

Max Uplift 2=-144 (LC 12), 7=-144 (LC 13) Max Grav 2=997 (LC 1), 7=997 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-4=-1387/295, 4-5=-1124/332,

5-7=-1387/295. 7-8=0/6

2-11=-152/1127, 9-11=-154/1124, 7-9=-141/1127

WFBS 4-11=0/267, 4-9=-160/161, 5-9=0/267

NOTES

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-11-4, Exterior(2E) 7-11-4 to 12-10-4, Exterior(2R) 12-10-4 to 19-11-2, Interior (1) 19-11-2 to 21-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 144 lb uplift at joint 2 and 144 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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

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



Truss Type Job Truss Qty Ply Roof - HT Lot 82 P240957-01 D3 Hip

Job Reference (optiona Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th

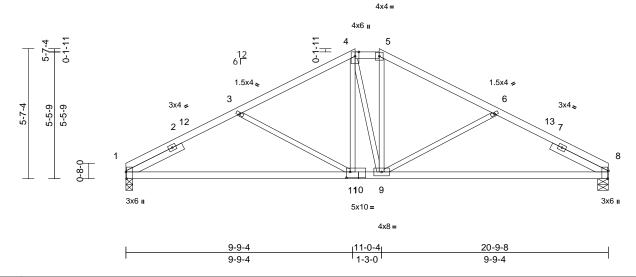
ı Sep 12<mark>15</mark>1531 ID:OpFMGs2YkDyk7JccrD96cAzX6Mc-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoF

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168191268

LEE'S SUMMIT. MISSOURI

15-10-9 20-9-8 4-10-15 9-10-8 1-0-8 4-10-15 4-11-9 4-11-9 4-10-15



Scale = 1:49.7

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

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	тс	0.42	Vert(LL)	-0.22	Ì-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.45	1-11	>553	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.27	Horz(CT)	0.04	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 95 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 2-8-7, Right 2x4 SP No.2

-- 2-8-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-7-14 oc purlins, except 2-0-0 oc purlins (5-8-7 max.): 4-5.

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

bracing.

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

Max Horiz 1=-99 (LC 17)

Max Uplift 1=-138 (LC 12), 8=-138 (LC 13) Max Grav 1=936 (LC 1), 8=936 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-1495/354, 3-4=-1168/264,

4-5=-974/272, 5-6=-1170/264, 6-8=-1495/354

BOT CHORD 1-11=-254/1251, 9-11=-63/971,

8-9=-245/1251

WEBS 4-11=-38/271, 4-9=-153/173, 5-9=-59/302,

3-11=-339/231, 6-9=-336/232

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-9-0, Interior (1) 4-9-0 to 9-10-8, Exterior(2E) 9-10-8 to 10-11-0, Exterior(2R) 10-11-0 to 17-11-14, Interior (1) 17-11-14 to 20-9-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 1 and 138 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



September 16,2024



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 - HT Lot 82 3 P240957-01 D4 Roof Special Girder Job Reference (optional

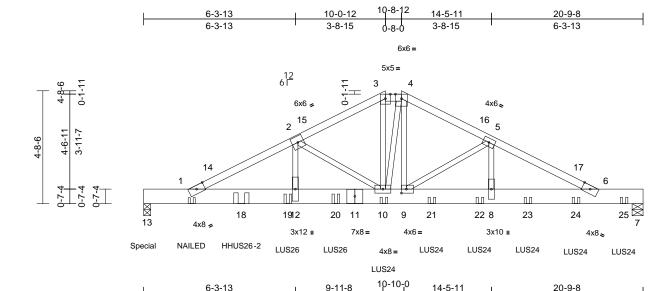
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S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191269 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12/13 ID:PP5HR7sCGYwleDdY7JwlbEzX2zy-RfC?PsB70Hq3NSgPqnL8w3ulTXbCKWrCDo

RELEASE FOR CONSTRUCTION



Scale = 1:48

Plate Offsets	(X,	Y):	[9:0-2-8,0-2-0]
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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	0.65	Vert(LL)	-0.21	ì-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.81	Vert(CT)	-0.36	1-12	>683	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.48	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 333 lb	FT = 20%

3-7-11

0-10-8

3-7-11

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SP 2400F 2.0E 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-9-6 oc purlins, except

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

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

bracing.

REACTIONS (size) 7=0-5-8, 13=0-3-8

Max Horiz 13=79 (LC 12)

Max Uplift 7=-908 (LC 13), 13=-935 (LC 12)

Max Grav 7=4499 (LC 1), 13=4521 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-11004/2498, 2-3=-6808/1568,

3-4=-6012/1417, 4-5=-6594/1522,

5-6=-10031/2264

BOT CHORD 1-13=-79/77, 1-12=-2166/9699, 10-12=-2166/9699, 9-10=-1217/5871.

8-9=-1949/8839, 6-8=-1949/8839, 6-7=0/0

WFBS 3-10=-729/3141, 4-10=-166/777,

4-9=-378/1579, 2-10=-4310/1076,

2-12=-920/4197, 5-9=-3489/869,

5-8=-728/3432

NOTES

- 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: 2x8 - 2 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.
- 3) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2F) 1-10-8 to 6-10-8 Interior (1) 6-10-8 to 10-0-12, Exterior(2E) 10-0-12 to 10-8-12, Exterior(2R) 10-8-12 to 17-9-10, Interior (1) 17-9-10 to 18-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 935 lb uplift at joint 13 and 908 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 4-0-13 from the left end to connect truss(es) to front face of bottom chord.
- 12) 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 6-0-0 from the left end to 8-0-0 to connect truss(es) to front face of bottom chord.

- 13) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 10-0-0 from the left end to 20-0-0 to connect truss(es) to front face of bottom chord.
- 14) Fill all nail holes where hanger is in contact with lumber.
- 15) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

6-3-13

16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 52 lb down at 0-1-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-4=-70, 4-6=-70, 1-13=-90, 1-6=-20, 6-7 = -90

Concentrated Loads (lb)

Vert: 1=-92 (F), 13=-38 (F), 10=-691 (F), 18=-1621 (F), 19=-804 (F), 20=-804 (F), 21=-686 (F), 22=-666 (F), 23=-663 (F), 24=-646 (F), 25=-472 (F)



September 16,2024



Job Truss Truss Type Qty Ply Roof - HT Lot 82 P240957-01 E1 Hip Girder Job Reference (optiona

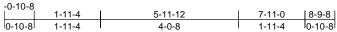
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191270 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

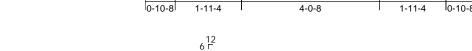
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

ı Sep 12**13 (5)**}1 Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th ID:gt1i6zL3MtaL5JOYwOGNUtzXLVs-RfC?PsB70Hq3NSgPqnL8w3ulTXbGrWrCDoi7s4z3e

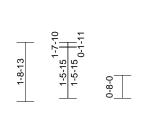
NAILED

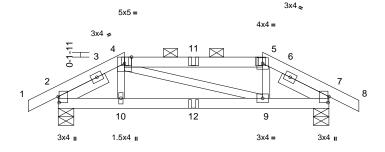


NAILED



NAILED





Sp	pecial NAILED	Special	
1-10-0	6-1-0	1	7-11-0
1-10-0	4-3-0		1-10-0

Scale = 1:33.7

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

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	0.44	Vert(LL)	-0.01	9-10	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.02	9-10	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 37 lb	FT = 20%

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 1-6-7, Right 2x4 SP No.2

-- 1-6-7

BRACING TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

REACTIONS (size) 2=0-5-8, 7=0-5-8

Max Horiz 2=-25 (LC 17)

Max Uplift 2=-135 (LC 12), 7=-135 (LC 13) Max Grav 2=481 (LC 1), 7=481 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-648/297, 4-5=-492/277,

5-7=-648/296, 7-8=0/6

BOT CHORD 2-10=-185/502, 9-10=-186/491, 7-9=-186/503

WEBS 4-10=0/162, 4-9=-21/22, 5-9=0/162

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 135 lb uplift at joint 2 and 135 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 41 lb up at 1-11-4, and 63 lb down and 41 lb up at 5-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-4=-70, 4-5=-70, 5-8=-70, 2-7=-20

Concentrated Loads (lb) Vert: 10=-63 (F), 9=-63 (F)



September 16,2024



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

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



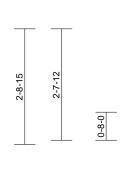
Truss Type Job Truss Qty Ply Roof - HT Lot 82 P240957-01 E2 Common Job Reference (optional S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191271 LEE'S SUMMIT. MISSOURI

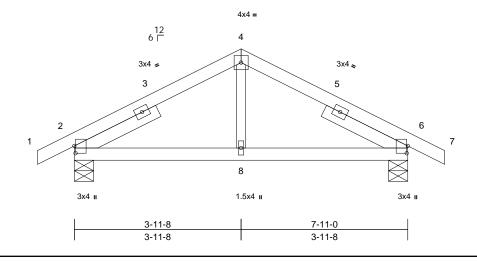
RELEASE FOR CONSTRUCTION

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

ID:n6oBGcHYlf3vci5nhYCRK1zXLVw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGrWrCDoi7y4z36

-0-10-8	3-11-8	7-11-0	8-9-8	
0-10-8	3-11-8	3-11-8	0-10-8	





Scale = 1:27.4

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

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	0.31	Vert(LL)	-0.01	2-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	2-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 36 lb	FT = 20%

LUMBER

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

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

-- 2-2-2

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

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

Max Horiz 2=-46 (LC 17)

Max Uplift 2=-76 (LC 12), 6=-76 (LC 13)

Max Grav 2=417 (LC 1), 6=418 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/6, 2-4=-438/190, 4-6=-438/207, 6-7=0/6

BOT CHORD 2-8=-74/307, 6-8=-74/307

WEBS 4-8=0/195

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 2 and 76 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



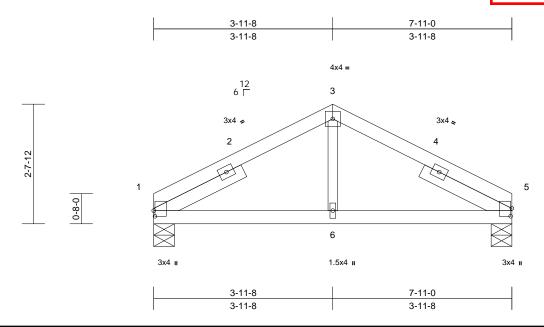
September 16,2024



Ply Truss Type Job Truss Qty Roof - HT Lot 82 P240957-01 E3 Common Job Reference (optional RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191272 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 6 12 ID:n6oBGcHYlf3vci5nhYCRK1zXLVw-RfC?PsB70Hq3NSgPqnL8w3ulTXbGr WrCDoin4236 A



Scale = 1:25.5

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

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	0.33	Vert(LL)	-0.01	1-6	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.02	1-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 33 lb	FT = 20%

LUMBER

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

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

BRACING TOP CHORD

Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

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

Max Horiz 1=-44 (LC 17)

Max Uplift 1=-53 (LC 12), 5=-53 (LC 13)

Max Grav 1=356 (LC 1), 5=356 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-3=-433/200, 3-5=-432/217

BOT CHORD 1-6=-91/318, 5-6=-91/318 3-6=0/195

WEBS NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 1 and 53 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



September 16,2024



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

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



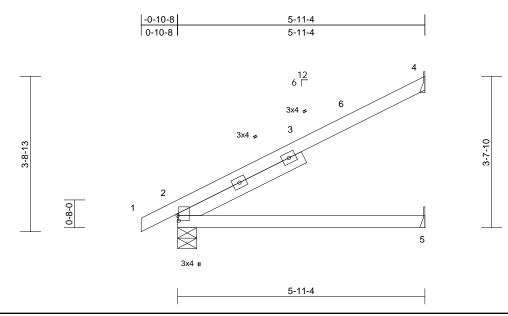
Truss Type Job Truss Qty Ply Roof - HT Lot 82 P240957-01 J1 Jack-Open 28 Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191273 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 6 2 ID:rkgRrwGlm1pCMOxPa79zFczXLVy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoir-423c?



Scale = 1:27.7

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	0.79	Vert(LL)	-0.07	2-5	>987	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.44	Vert(CT)	-0.14	2-5	>493	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 3-4-1 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-4 oc purlins.

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

bracing.

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

Max Horiz 2=147 (LC 12)

Max Uplift 2=-41 (LC 12), 4=-132 (LC 12) Max Grav 2=330 (LC 1), 4=201 (LC 1), 5=117

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-141/72

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 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 132 lb uplift at joint 4 and 41 lb uplift at joint 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



September 16,2024



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

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

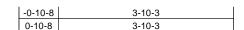


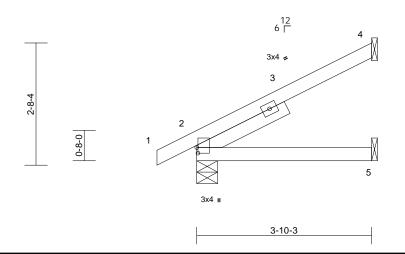
Truss Type Job Truss Qty Ply Roof - HT Lot 82 P240957-01 J2 Jack-Open 10 Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191274 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 (5) 2 ID:rkgRrwGlm1pCMOxPa79zFczXLVy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorr423C4





Scale = 1:25.3

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	0.31	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-3 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=101 (LC 12)

Max Uplift 2=-33 (LC 12), 4=-87 (LC 12) Max Grav 2=239 (LC 1), 4=125 (LC 1), 5=76

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-95/49

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 87 lb uplift at joint 4 and 33 lb uplift at joint 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



September 16,2024





Job Truss Truss Type Qty Ply Roof - HT Lot 82 P240957-01 J3 Jack-Open 11

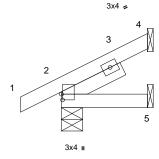
DEVELOPMENT SERVICES 168191275 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

ID:rkgRrwGlm1pCMOxPa79zFczXLVy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7423C7

-0-10-8	1-10-3
0-10-8	1-10-3





1-10-3

Scale = 1:24.7

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)	0.00	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-10-3 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=59 (LC 12)

Max Uplift 2=-26 (LC 12), 4=-43 (LC 12) Max Grav 2=158 (LC 1), 4=50 (LC 1), 5=37

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-53/25

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 26 lb uplift at joint 2 and 43 lb uplift at joint 4.

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

LOAD CASE(S) Standard



September 16,2024



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

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



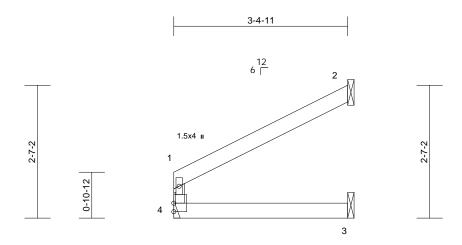
Truss Type Ply Job Truss Qty Roof - HT Lot 82 P240957-01 J4 Jack-Open Job Reference (optional

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 16 2/ 3 ID:rkgRrwGlm1pCMOxPa79zFczXLVy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7-423C*1

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168191276



3x4 II

3-4-11

Scale = 1:22.5

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	0.23	Vert(LL)	0.01	3-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 11 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 3-4-11 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

2= Mechanical, 3= Mechanical, 4=

Mechanical Max Horiz 4=61 (LC 12)

Max Uplift 2=-69 (LC 12), 4=-1 (LC 12)

Max Grav 2=107 (LC 1), 3=63 (LC 3), 4=145

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-119/73, 1-2=-76/40

BOT CHORD 3-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections. Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 4
- and 69 lb uplift at joint 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



September 16,2024



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

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



Truss Type Ply Job Truss Qty Roof - HT Lot 82 P240957-01 J5 Jack-Open Job Reference (optional

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

LEE'S SUMMIT. MISSOURI Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 59 2/3 ID:rkgRrwGIm1pCMOxPa79zFczXLVy-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDo) 425C*f

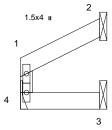
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168191277

1-4-11

12 6 |







1.5x4 II

1-4-11

Scale = 1:20.2

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	0.00	3-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	3-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 5 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 1-4-11 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

2= Mechanical, 3= Mechanical, 4= Mechanical

Max Horiz 4=32 (LC 9) Max Uplift 2=-32 (LC 12)

Max Grav 2=43 (LC 1), 3=25 (LC 3), 4=57

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-46/21, 1-2=-35/18

BOT CHORD 3-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections. Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 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



September 16,2024



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

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



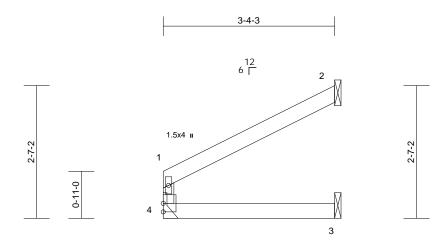
Truss Type Ply Job Truss Qty Roof - HT Lot 82 P240957-01 J6 Jack-Open Job Reference (optional

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191278 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 5 2 2 ID:JwEp3GHwXLx2_YWb8qgCoqzXLVx-RfC?PsB70Hq3NSgPqnL8w3ulTXb**G**KWrCD**br/J4zJC?**



3x4 II

3-4-3

Scale = 1:22.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.01	3-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	3-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 11 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 3-10-3 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size)

2= Mechanical, 3= Mechanical, 4=

Mechanical

Max Horiz 4=60 (LC 12)

Max Uplift 2=-68 (LC 12), 4=-1 (LC 12)

Max Grav 2=105 (LC 1), 3=62 (LC 3), 4=143

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=-117/71, 1-2=-76/39

BOT CHORD 3-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections. Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 4 and 68 lb uplift at joint 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



September 16,2024



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 - HT Lot 82 P240957-01 J7 Jack-Open 3

DEVELOPMENT SERVICES 168191279 LEE'S SUMMIT. MISSOURI Job Reference (optional

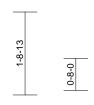
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

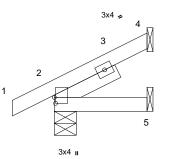
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12(13)(5)(3) ID:JwEp3GHwXLx2_YWb8qgCoqzXLVx-RfC?PsB70Hq3NSgPqnL8w3ulTXb_GKWrCDei/J4zJC?

-0-10-8	1-11-4
0-10-8	1-11-4







6 12



Scale = 1:24.1

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)	0.00	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 1-5-3 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-11-4 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=61 (LC 12)

Max Uplift 2=-26 (LC 12), 4=-45 (LC 12) Max Grav 2=162 (LC 1), 4=53 (LC 1), 5=39

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/6, 2-4=-55/27

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 26 lb uplift at joint 2 and 45 lb uplift at joint 4.

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

LOAD CASE(S) Standard



September 16,2024



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

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



Truss Type Job Truss Qty Ply Roof - HT Lot 82 P240957-01 J8 Jack-Open 2

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

DEVELOPMENT SERVICES 168191280 LEE'S SUMMIT. MISSOURI Job Reference (optiona

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 15 3 ID:JwEp3GHwXLx2_YWb8qgCoqzXLVx-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDbifJ4zJC

-0-10-8 5-11-4 0-10-8 5-11-4 12 6 | 3x4 = 3 3x4 🍃 0-8-0 3x4 II 5-11-4

Scale = 1:27.7

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	0.79	Vert(LL)	-0.07	2-5	>956	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.15	2-5	>478	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 3-4-1 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-4 oc purlins.

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

bracing.

REACTIONS 2=0-3-8, 4= Mechanical, 5=5-5-12 (size)

Max Horiz 2=147 (LC 12)

Max Uplift 2=-41 (LC 12), 4=-132 (LC 12) Max Grav 2=331 (LC 1), 4=201 (LC 1), 5=119

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-141/72

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 2 SP No.2 crushing capacity of 565 psi, Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 4 and 41 lb uplift at joint 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









Truss Type Ply Job Truss Qty Roof - HT Lot 82 P240957-01 J9 Jack-Open 2

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

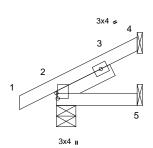
DEVELOPMENT SERVICES 168191281 LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 53 3 ID:XAZEfeNIHSRyiMS4XpS?osysweA-RfC?PsB70Hq3NSgPqnL8w3ulTXbG WrCDoM423c*f

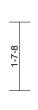
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

6 T

1-8-10





1-10-15

Scale = 1:27.3

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)	0.00	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 1-5-3 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

1-10-15 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=60 (LC 12)

Max Uplift 2=-26 (LC 12), 4=-45 (LC 12)

Max Grav 2=161 (LC 1), 4=52 (LC 1), 5=38

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-54/26

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 26 lb uplift at joint 2 and 45 lb uplift at joint 4.

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

LOAD CASE(S) Standard



September 16,2024



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

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



Truss Type Ply Job Truss Qty Roof - HT Lot 82 P240957-01 J10 Jack-Open 2 Job Reference (optional

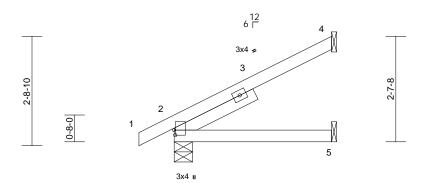
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191282 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 (5) 3 ID:ttrh8XEm6mwfGWXmqIEBJKysweM-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDoi7J42d ?f





3-10-15

Scale = 1:28.6

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

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	0.32	Vert(LL)	-0.01	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	2-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-15 oc purlins.

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

bracing.

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

Mechanical Max Horiz 2=103 (LC 12)

Max Uplift 2=-33 (LC 12), 4=-88 (LC 12) Max Grav 2=241 (LC 1), 4=128 (LC 1), 5=77

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-96/49

BOT CHORD 2-5=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 88 lb uplift at joint 4 and 33 lb uplift at joint 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



September 16,2024







Truss Type Job Truss Qty Ply Roof - HT Lot 82 P240957-01 LG₁ Lay-In Gable

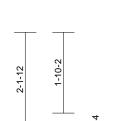
LEE'S SUMMIT. MISSOURI Job Reference (optional ID:rkgRrwGlm1pCMOxPa79zFczXLVy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDorr423C4

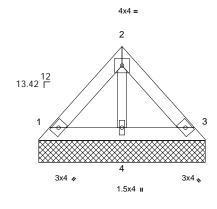
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 168191283

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

i		3-9-10
1-10-13	3-6-10	
1-10-13	1-7-12	0.3.1





3-9-10

Scale = 1:26.3

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.01	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 14 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-10-2 oc purlins.

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

bracing.

REACTIONS (size) 1=3-9-10, 3=3-9-10, 4=3-9-10

Max Horiz 1=-51 (LC 10)

Max Uplift 1=-27 (LC 13), 3=-23 (LC 13) Max Grav 1=94 (LC 1), 3=94 (LC 1), 4=99

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-75/38, 2-3=-69/32 **BOT CHORD** 1-4=-17/38, 3-4=-17/38

WFBS 2-4=-59/17

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom 6) chord live load nonconcurrent with any other live loads.

- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1 and 23 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Job Truss Truss Type Qty Ply Roof - HT Lot 82 P240957-01 LG₂ Lay-In Gable

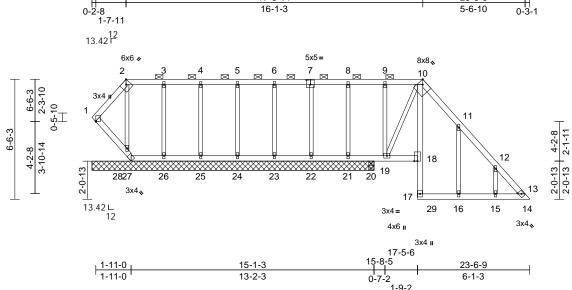
Job Reference (optiona

DEVELOPMENT SERVICES 168191284 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

Run: 8.93 E 8.63 Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries, Inc. Mon Sp ID:0aJAbtBXAC32eTUFEs2Z?LzXLW2-y9L6ITPxILsbSVtB0ZMnd9HMArABC

-0-2-8 23-6-9 17-8-14 23-3-8 0-3-1 16-1-3 5-6-10



Scale = 1:62.5

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

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56			20-21	>999		MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	0.00	20-21	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	-0.02	20	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 118 lb	FT = 20%

LUMBER 2x4 SP No.2 *Except* 7-10:2x4 SP 1650F TOP CHORD

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

1.5E

BOT CHORD 2x4 SP No.2 *Except* 27-18:2x4 SP 2400F

2.0E

WEBS 2x3 SPF No.2 2x3 SPF No.2 **OTHERS**

BRACING

FORCES

TOP CHORD Structural wood sheathing directly applied or

7-11-7 oc purlins, except

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

bracing, Except: 5-10-6 oc bracing: 1-28

5-8-8 oc bracing: 27-28 9-4-10 oc bracing: 17-18 10-0-0 oc bracing: 13-14.

REACTIONS All bearings 15-3-11. except 20=0-3-8

(lb) - Max Horiz 1=-218 (LC 13)

Max Uplift All uplift 100 (lb) or less at joint(s)

22, 23, 24, 25, 26, 28 except 1=-1647 (LC 26), 20=-134 (LC 13),

21=-160 (LC 1), 27=-426 (LC 13) Max Grav All reactions 250 (lb) or less at joint

(s) 21, 22, 23, 24, 25, 26 except 1=508 (LC 13), 20=1090 (LC 1),

27=850 (LC 26), 28=945 (LC 1) (lb) - Max. Comp./Max. Ten. - All forces 250

(lb) or less except when shown.

1-2=-550/1164, 2-3=-281/668, 3-4=-280/666, TOP CHORD 4-5=-280/666, 5-6=-280/666, 6-7=-280/666,

7-8=-280/667, 8-9=-280/667, 9-10=-280/668, 10-11=-156/477, 11-12=-135/326,

12-13=-224/302

BOT CHORD 1-28=-1010/772, 27-28=-1073/829, 26-27=-666/509, 25-26=-666/509, 24-25=-666/509, 23-24=-666/509,

22-23=-666/509, 21-22=-667/509, 20-21=-667/509, 19-20=-667/509,

18-19=-313/256, 10-18=-230/276 WFBS 2-28=-1007/473, 10-19=-934/569

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-11 to 1-10-3, Exterior(2R) 1-10-3 to 8-11-1, Interior (1) 8-11-1 to 17-11-6, Exterior(2E) 17-11-6 to 23-5-6 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- 6) 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 26, 25, 24, 23, 22 except (jt=lb) 1=1646, 27=425, 21=160, 20=134.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord

11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.

LOAD CASE(S) Standard



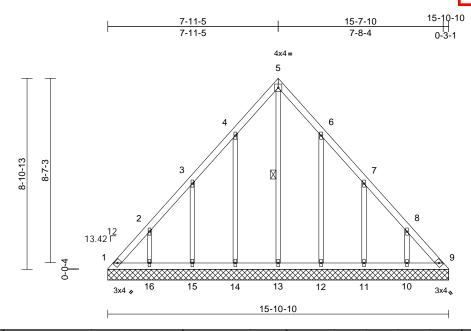
Job Truss Truss Type Qty Ply Roof - HT Lot 82 P240957-01 LG3 Lay-In Gable

Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191285 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 53 3 ID:rkgRrwGlm1pCMOxPa79zFczXLVy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDor5423C4



Scale = 1:53.7

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 83 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

WEBS 1 Row at midpt 5-13

REACTIONS (size)

1=15-10-10, 9=15-10-10, 10=15-10-10, 11=15-10-10, 12=15-10-10, 13=15-10-10, 14=15-10-10, 15=15-10-10, 16=15-10-10

Max Horiz 1=-246 (LC 8)

1=-110 (LC 10), 9=-76 (LC 11), Max Uplift

10=-148 (LC 13), 11=-152 (LC 13), 12=-146 (LC 13), 14=-148 (LC 12), 15=-151 (LC 12), 16=-148 (LC 12)

Max Grav 1=243 (LC 12), 9=221 (LC 13),

10=213 (LC 20), 11=211 (LC 20), 12=219 (LC 20), 13=186 (LC 13), 14=222 (LC 19), 15=210 (LC 19),

16=213 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-344/216, 2-3=-206/153, 3-4=-151/105,

4-5=-167/162, 5-6=-167/154, 6-7=-115/58, 7-8=-176/108. 8-9=-314/216

BOT CHORD 1-16=-161/239, 15-16=-162/239

> 14-15=-162/239, 13-14=-162/239, 12-13=-162/239, 11-12=-162/239, 10-11=-162/239, 9-10=-161/238

5-13=-162/115, 4-14=-196/172, 3-15=-205/177, 2-16=-194/165,

6-12=-196/170, 7-11=-205/178,

8-10=-194/165

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-15 to 5-3-15, Interior (1) 5-3-15 to 7-11-9, Exterior(2R) 7-11-9 to 12-11-9, Interior (1) 12-11-9 to 15-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 1, 76 lb uplift at joint 9, 148 lb uplift at joint 14, 151 lb uplift at joint 15, 148 lb uplift at joint 16, 146 lb uplift at joint 12, 152 lb uplift at joint 11 and 148 lb uplift at joint 10.
- 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



September 16,2024

NOTES

WFBS

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



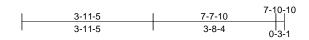
Job Truss Truss Type Qty Ply Roof - HT Lot 82 P240957-01 LG5 Lay-In Gable

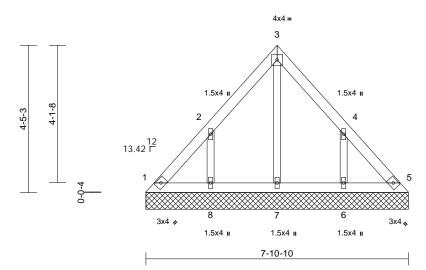
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191286 LEE'S SUMMIT. MISSOURI Job Reference (optiona

RELEASE FOR CONSTRUCTION

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Th I Sep 12 13 5 3 2 ID:rkgRrwGlm1pCMOxPa79zFczXLVy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDor5423C4





Scale = 1:34.6

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 34 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=7-10-10, 5=7-10-10, 6=7-10-10,

7=7-10-10, 8=7-10-10 Max Horiz 1=-117 (LC 8)

Max Uplift 1=-27 (LC 8), 5=-11 (LC 9), 6=-169

(LC 13), 8=-169 (LC 12)

Max Grav 1=108 (LC 21), 5=100 (LC 22), 6=234 (LC 20), 7=113 (LC 22),

8=234 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=-133/95, 2-3=-106/80, 3-4=-98/75,

TOP CHORD 4-5=-119/84

BOT CHORD 1-8=-70/105, 7-8=-71/106, 6-7=-71/106,

5-6=-70/105

WEBS 2-8=-244/193, 3-7=-73/23, 4-6=-244/193

NOTES

- Unbalanced roof live loads have been considered for 1) this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 1, 11 lb uplift at joint 5, 169 lb uplift at joint 8 and 169 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



September 16,2024

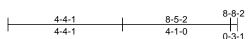


Truss Type Job Truss Qty Ply Roof - HT Lot 82 P240957-01 LG6 Lay-In Gable

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

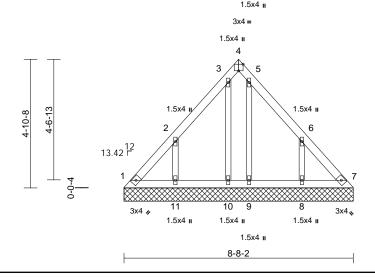
DEVELOPMENT SERVICES 168191287 LEE'S SUMMIT. MISSOURI Job Reference (optiona Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 15 3 2

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW



ID:dHmLa7yXcmxsA4?4NX0EHUzX6Mk-RfC?PsB70Hq3NSgPqnL8w3uITXt GKWrCDe/7J42JC?





Scale = 1:43.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 40 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

Max Grav

REACTIONS (size) 1=8-8-2, 7=8-8-2, 8=8-8-2, 9=8-8-2, 10=8-8-2, 11=8-8-2

Max Horiz 1=-130 (LC 8)

Max Uplift 1=-43 (LC 10), 7=-34 (LC 11),

8=-172 (LC 13), 9=-59 (LC 13),

10=-67 (LC 12), 11=-170 (LC 12)

1=155 (LC 12), 7=149 (LC 13),

8=230 (LC 20), 9=138 (LC 20).

10=147 (LC 19), 11=228 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-227/206, 2-3=-76/75, 3-4=-21/18,

4-5=-21/19, 5-6=-69/64, 6-7=-218/206

BOT CHORD 1-11=-151/171, 10-11=-152/171, 9-10=-152/171, 8-9=-152/171, 7-8=-151/171

WEBS 2-11=-243/195, 3-10=-121/83, 5-9=-112/75,

6-8=-243/197

NOTES

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

- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 0-0-0 oc. 6)
- This truss has been designed for a 10.0 psf bottom 7) chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 1, 34 lb uplift at joint 7, 170 lb uplift at joint 11, 67 lb uplift at joint 10, 59 lb uplift at joint 9 and 172 lb uplift at joint
- 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



September 16,2024



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



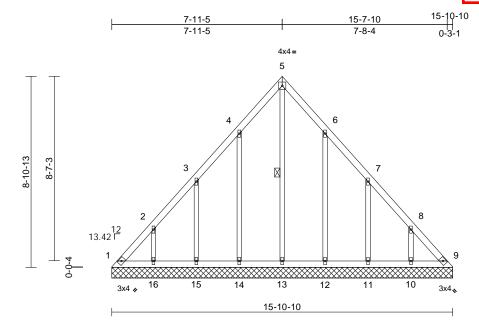
Job Truss Truss Type Qty Ply Roof - HT Lot 82 P240957-01 LG8 Lay-In Gable

DEVELOPMENT SERVICES 168191288 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 15 14 3 ID:rkgRrwGlm1pCMOxPa79zFczXLVy-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDol7-423C*1



Scale = 1:53.7

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horiz(TL)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 83 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

WEBS 1 Row at midpt 5-13

REACTIONS (size)

1=15-10-10, 9=15-10-10, 10=15-10-10, 11=15-10-10, 12=15-10-10, 13=15-10-10, 14=15-10-10, 15=15-10-10,

16=15-10-10

Max Horiz 1=-246 (LC 8) 1=-110 (LC 10), 9=-76 (LC 11), Max Uplift

10=-148 (LC 13), 11=-152 (LC 13), 12=-146 (LC 13), 14=-148 (LC 12),

15=-151 (LC 12), 16=-148 (LC 12)

Max Grav 1=243 (LC 12), 9=221 (LC 13), 10=213 (LC 20), 11=211 (LC 20),

12=219 (LC 20), 13=186 (LC 13), 14=222 (LC 19), 15=210 (LC 19),

16=213 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-344/216, 2-3=-206/153, 3-4=-151/105, 4-5=-167/162, 5-6=-167/154, 6-7=-115/58,

7-8=-176/108. 8-9=-314/216

BOT CHORD 1-16=-161/239, 15-16=-162/239

> 14-15=-162/239, 13-14=-162/239, 12-13=-162/239, 11-12=-162/239, 10-11=-162/239, 9-10=-161/238

5-13=-162/115, 4-14=-196/172,

3-15=-205/177, 2-16=-194/165,

6-12=-196/170, 7-11=-205/178, 8-10=-194/165

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-15 to 5-3-15, Interior (1) 5-3-15 to 7-11-9, Exterior(2R) 7-11-9 to 12-11-9, Interior (1) 12-11-9 to 15-7-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 1, 76 lb uplift at joint 9, 148 lb uplift at joint 14, 151 lb uplift at joint 15, 148 lb uplift at joint 16, 146 lb uplift at joint 12, 152 lb uplift at joint 11 and 148 lb uplift at joint 10.
- 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



September 16,2024



WFBS

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

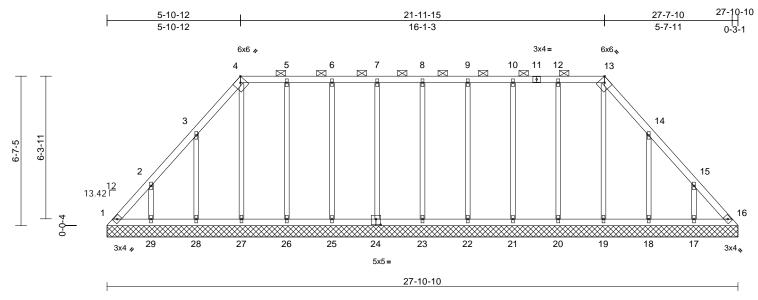


Job Truss Truss Type Qty Ply Roof - HT Lot 82 P240957-01 LG9 Lay-In Gable Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191289 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 5 4 3 ID:AhyX61BIRcwx5vFD9yFQR5zX2CT-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDord



Scale = 1:50.9

Plate Offsets (X, Y)	[4:0-2-10,Edge]	, [13:0-2-10,Edge],	[24:0-2-8,0-3-0]
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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	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horiz(TL)	0.01	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 144 lb	FT = 20%

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-13.

Rigid ceiling directly applied or 10-0-0 oc

BOT CHORD

bracing.

REACTIONS (size) 1=27-10-10, 16=27-10-10, 17=27-10-10, 18=27-10-10,

19=27-10-10, 20=27-10-10, 21=27-10-10, 22=27-10-10, 23=27-10-10, 24=27-10-10, 25=27-10-10, 26=27-10-10,

27=27-10-10, 28=27-10-10, 29=27-10-10

1=-181 (LC 8) Max Horiz

Max Uplift 1=-86 (LC 10), 16=-32 (LC 11),

17=-150 (LC 13), 18=-155 (LC 13), 20=-46 (LC 9), 21=-40 (LC 8), 22=-39 (LC 9), 23=-39 (LC 9), 24=-39 (LC 8), 25=-40 (LC 8),

26=-42 (LC 8), 27=-32 (LC 9), 28=-156 (LC 12), 29=-149 (LC 12)

Max Grav 1=154 (LC 12), 16=129 (LC 22),

17=212 (LC 20), 18=220 (LC 20), 19=144 (LC 26), 20=191 (LC 25), 21=179 (LC 1), 22=180 (LC 26), 23=181 (LC 25), 24=180 (LC 26),

25=178 (LC 1), 26=191 (LC 26), 27=165 (LC 22), 28=221 (LC 19),

29=211 (LC 19) **FORCES** (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-225/175, 2-3=-148/122, 3-4=-143/159, 4-5=-118/127, 5-6=-118/128, 6-7=-118/128, 7-8=-119/128, 8-9=-119/128, 9-10=-119/128,

10-12=-119/128, 12-13=-119/128, 13-14=-144/133, 14-15=-94/50,

15-16=-177/106

BOT CHORD 1-29=-86/148, 28-29=-87/148, 27-28=-87/148, 26-27=-87/148,

25-26=-87/148, 23-25=-87/148, 22-23=-86/147, 21-22=-86/147, 20-21=-86/147, 19-20=-86/147,

18-19=-86/148, 17-18=-86/147, 16-17=-85/147

2-29=-182/166, 3-28=-194/182, 4-27=-125/56, 5-26=-151/66, 6-25=-139/64,

7-24=-140/63, 8-23=-140/63, 9-22=-140/63, 10-21=-139/64, 12-20=-151/70, 13-19=-104/4, 14-18=-194/181,

15-17=-182/167

NOTES

WFBS

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

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-3-15 to 5-3-15, Interior (1) 5-3-15 to 5-10-15, Exterior(2R) 5-10-15 to 12-11-13, Interior (1) 12-11-13 to 22-0-2, Exterior(2E) 22-0-2 to 27-7-3 zone; cantilever left and right exposed end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.

- Provide adequate drainage to prevent water ponding. All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.

- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 1, 32 lb uplift at joint 16, 149 lb uplift at joint 29, 156 lb uplift at joint 28, 32 lb uplift at joint 27, 42 lb uplift at joint 26, 40 lb uplift at joint 25, 39 lb uplift at joint 24, 39 lb uplift at joint 23, 39 lb uplift at joint 22, 40 lb uplift at joint 21, 46 lb uplift at joint 20, 155 lb uplift at joint 18 and 150 lb uplift at joint 17.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



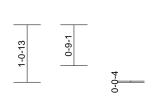


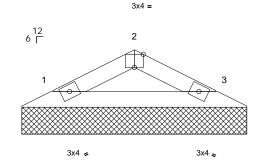
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 82
P240957-01	V1	Valley	1	1	Job Reference (options

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

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191290 LEE'S SUMMIT. MISSOURI

1	1	1 1
2-1-2	3-7-5	4-2-4
2-1-2	1-6-3	0-6-15





4-2-4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 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 4-3-4 oc purlins.

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

bracing.

REACTIONS (size) 1=4-2-4, 3=4-2-4

Max Horiz 1=14 (LC 12)

Max Uplift 1=-21 (LC 12), 3=-21 (LC 13) Max Grav 1=136 (LC 1), 3=136 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-136/121, 2-3=-136/129

BOT CHORD 1-3=-83/105

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 21 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 16,2024



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

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



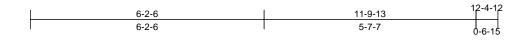
Truss Type Job Truss Qty Ply Roof - HT Lot 82 P240957-01 V2 Valley

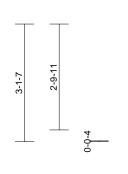
Job Reference (optional

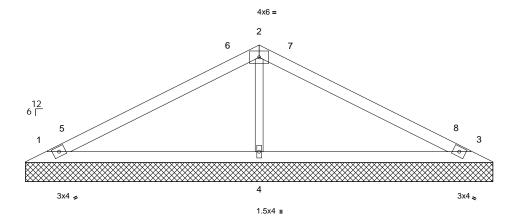
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191291 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 13 63 ID:yoaAy6sOvRt9cBOqYQpWYKzX2qv-RfC?PsB70Hq3NSgPqnL8w3ulTXb(KWrCDoir J42







12-4-12

Scale = 1:30.6

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.54	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	0.09	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 39 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=12-4-12, 3=12-4-12, 4=12-4-12

Max Horiz 1=53 (LC 16)

Max Uplift 1=-56 (LC 12), 3=-66 (LC 13), 4=-42 (LC 12)

1=238 (LC 25), 3=238 (LC 26), Max Grav

4=536 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-145/101, 2-3=-145/92

BOT CHORD 1-4=-4/61, 3-4=-4/61 2-4=-366/228 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 6-2-14, Exterior(2R) 6-2-14 to 11-2-14, Interior (1) 11-2-14 to 11-10-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 1, 66 lb uplift at joint 3 and 42 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 16,2024



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

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



Truss Type Job Truss Qty Ply Roof - HT Lot 82 P240957-01 V3 Valley Job Reference (optional

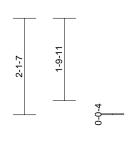
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

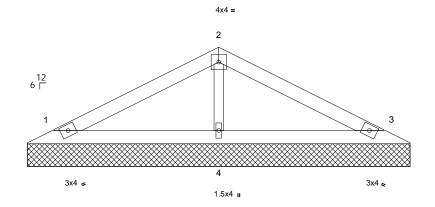
Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 15 15 4 ID:yoaAy6sOvRt9cBOqYQpWYKzX2qv-RfC?PsB70Hq3NSgPqnL8w3uITXb(KWrCDoin

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191292 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION







8-4-12

Scale = 1:25.3

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	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	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: 26 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=8-4-12, 3=8-4-12, 4=8-4-12

1=-34 (LC 13) Max Horiz

Max Uplift 1=-44 (LC 12), 3=-50 (LC 13),

4=-11 (LC 12)

1=170 (LC 1), 3=170 (LC 1), 4=311 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-82/60, 2-3=-82/68 **BOT CHORD** 1-4=-1/37, 3-4=-1/37

2-4=-220/171 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 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 44 lb uplift at joint 1, 50 lb uplift at joint 3 and 11 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







Truss Type Job Truss Qty Ply Roof - HT Lot 82 P240957-01 V4 Valley

Job Reference (optional

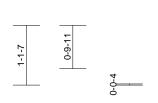
S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191293 LEE'S SUMMIT. MISSOURI

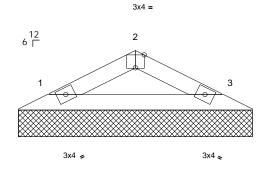
RELEASE FOR CONSTRUCTION

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 15 14 3 ID:yoaAy6sOvRt9cBOqYQpWYKzX2qv-RfC?PsB70Hq3NSgPqnL8w3ulTXbq KWrCDorJ42d?

2-2-6	3-9-13	4-4-12
2-2-6	1-7-7	0-6-15





4-4-12

Scale = 1:21.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	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: 12 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

4-5-12 oc purlins.

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

bracing.

REACTIONS (size) 1=4-4-12, 3=4-4-12

Max Horiz 1=-15 (LC 13)

Max Uplift 1=-22 (LC 12), 3=-22 (LC 13) Max Grav 1=145 (LC 1), 3=145 (LC 1) (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=-146/130, 2-3=-146/138

BOT CHORD 1-3=-89/112

NOTES

FORCES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 22 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



September 16,2024



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

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



Truss Type Job Truss Qty Ply Roof - HT Lot 82 P240957-01 V5 Valley

S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191294 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION

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

0-10-1

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 63 ID:mtjM?L5uvaRz812eyGlwNuytFbV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7

1-7-10

4x6 =



3x4 =

1-7-10

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.02	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: 4 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 1-8-2 oc purlins, except end verticals.

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

bracing.

REACTIONS 1=1-7-10, 3=1-7-10 (size)

Max Horiz 1=21 (LC 9)

Max Uplift 1=-7 (LC 12), 3=-12 (LC 12) Max Grav 1=42 (LC 1), 3=42 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-30/20, 2-3=-33/43

BOT CHORD 1-3=-10/11

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 12 lb uplift at joint 3.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





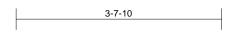
Ply Qty Job Truss Truss Type Roof - HT Lot 82 P240957-01 V6 Valley

DEVELOPMENT SERVICES 168191295 LEE'S SUMMIT. MISSOURI Job Reference (optional

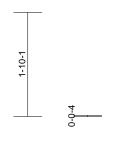
RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW

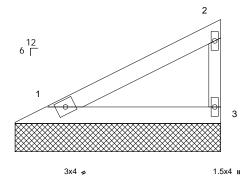
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. The Sep 12 13 63 ID:mtjM?L5uvaRz812eyGlwNuytFbV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7



1.5x4 II







3-7-10

Scale = 1:20.4

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	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.10	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 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 3-8-2 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-7-10, 3=3-7-10

Max Horiz 1=66 (LC 9)

Max Uplift 1=-21 (LC 12), 3=-37 (LC 12) Max Grav 1=132 (LC 1), 3=132 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-93/63, 2-3=-103/133

TOP CHORD BOT CHORD 1-3=-30/33

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 1 and 37 lb uplift at joint 3.

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

LOAD CASE(S) Standard



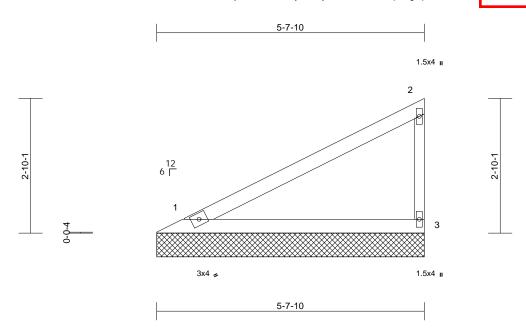


Ply Truss Type Job Truss Qty Roof - HT Lot 82 P240957-01 V7 Valley Job Reference (optional

RELEASE FOR CONSTRUCTION S NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 168191296 LEE'S SUMMIT. MISSOURI

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

Run: 8.63 S Jul 12 2024 Print: 8.630 S Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 15 15 15 ID:mtjM?L5uvaRz812eyGlwNuytFbV-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKVrCDoi7



Scale = 1:24.3

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.56	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	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 **BOT CHORD** 2x4 SP No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-8-2 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=5-7-10, 3=5-7-10

Max Horiz 1=110 (LC 9)

Max Uplift 1=-35 (LC 12), 3=-62 (LC 12) Max Grav 1=222 (LC 1), 3=222 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-154/104, 2-3=-173/219

BOT CHORD 1-3=-51/55

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 1 and 62 lb uplift at joint 3.

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

LOAD CASE(S) Standard



September 16,2024



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



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

* Plate location details available in MiTek software or upon request

connector plates.

required direction of slots in This symbol indicates the ₹

edge of truss.

plates 0- 1/16" from outside For 4 x 2 orientation, locate

PLATE SIZE

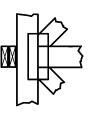
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



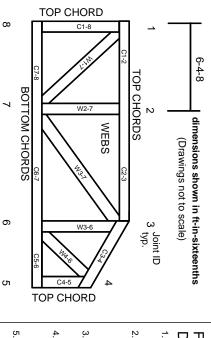
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

ANSI/TPI1: Industry Standards:

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

DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports

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

Design General Notes

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other

'n

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

œ

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

9

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