

RE: P240941-01

Roof - HT Lot 187

MiTek, Inc.

16023 Swingley Ridge Rd. Chesterfield, MO 63017

314.434.1200

Site Information:

Customer: Clayton Properties Project Name: P240941-01 Lot/Block: 187 Model:

Address: 3219 SW Arboridge Cir Subdivision: Hawthorn Ridge

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special **Loading Conditions):**

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

Wind Code: ASCE 7-16 Wind Speed: 115 mph Floor Load: N/A psf Roof Load: 45.0 psf

This package includes 64 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	166660821	A3	7/5/2024	21	166660841	A15	7/5/2024
2	166660822	A2	7/5/2024	22	166660842	A16	7/5/2024
3	166660823	A1	7/5/2024	23	166660843	A17	7/5/2024
4	166660824	B7	7/5/2024	24	166660844	A11	7/5/2024
5	166660825	B5	7/5/2024	25	166660845	LG4	7/5/2024
6	166660826	B4	7/5/2024	26	166660846	LG9	7/5/2024
7	166660827	B3	7/5/2024	27	166660847	B1	7/5/2024
8	166660828	B2	7/5/2024	28	166660848	LG8	7/5/2024
9	166660829	B8	7/5/2024	29	166660849	LG2	7/5/2024
10	166660830	B6	7/5/2024	30	166660850	LG5	7/5/2024
11	166660831	A10	7/5/2024	31	166660851	C3	7/5/2024
12	166660832	A9	7/5/2024	32	166660852	C1	7/5/2024
13	166660833	A8	7/5/2024	33	166660853	C2	7/5/2024
14	166660834	A7	7/5/2024	34	166660854	LG1	7/5/2024
15	166660835	A6	7/5/2024	35	166660855	CG1	7/5/2024
16	166660836	A5	7/5/2024	36	166660856	CG6	7/5/2024
17	166660837	A4	7/5/2024	37	166660857	V7	7/5/2024
18	166660838	A12	7/5/2024	38	166660858	V3	7/5/2024
19	166660839	A13	7/5/2024	39	166660859	V5	7/5/2024
20	166660840	A14	7/5/2024	40	166660860	E2	7/5/2024

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

MiTek USA, Inc under my direct supervision

based on the parameters provided by .

Truss Design Engineer's Name: Sevier, Scott

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

Missouri COA: 001193

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



10/03/2024



RE: P240941-01 - Roof - HT Lot 187

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Site Information:

Project Customer: Clayton Properties Project Name: P240941-01

Lot/Block: 187 Address: 3219 SW Arboridge Cir Subdivision: Hawthorn Ridge

City, County: Lee's Summit State: MO

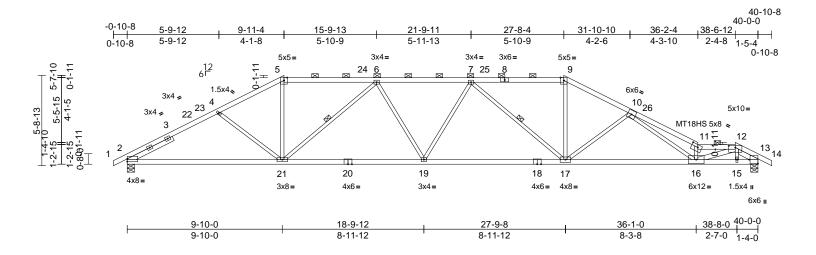
No.	Seal#	Truss Name	Date
41	166660861	E1	7/5/2024
42	166660862	V8	7/5/2024
43	166660863	LG7	7/5/2024
44	166660864	D2	7/5/2024
45	166660865	D1	7/5/2024
46	166660866	J6	7/5/2024
47	166660867	J1	7/5/2024
48	166660868	CG5	7/5/2024
49	166660869	V9	7/5/2024
50	166660870	V4	7/5/2024
51	166660871	V6	7/5/2024
52	166660872	J3	7/5/2024
53	166660873	LG6	7/5/2024
54	166660874	J4	7/5/2024
55	166660875	J9	7/5/2024
56	166660876	V1	7/5/2024
57	166660877	LG3	7/5/2024
58	166660878	CG3	7/5/2024
59	166660879	V10	7/5/2024
60	166660880	J8	7/5/2024
61	166660881	J7	7/5/2024
62	166660882	J5	7/5/2024
63	166660883	J2	7/5/2024
64	166660884	V2	7/5/2024

Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	A3	Roof Special	1	1	Job Reference (optional)

c Wed M 08 Run: 8 91 S 8 63 Jun 17 2024 Print: 8 630 S Jun 17 2024 MiTek Industries ID:ryngz7SpwEekpgueelP_alzZ4Ow-RfC?PsB70Hq3NSgPqnL8w3uITXbGK /rCDoi7J4

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660821



Scale = 1:73.1

Plate Offsets (X, Y): [2:Edge,0-2-1], [11:0-5-0,0-2-0], [12:0-5-0,0-1-7], [13:Edge,0-6-10]

-												
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	0.92	Vert(LL)	-0.42	16-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.82	16-17	>584	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	YES	WB	0.91	Horz(CT)	0.20	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 180 lb	FT = 20%

LUMBER

BOT CHORD

TOP CHORD 2x4 SP No.2 *Except* 9-11,11-12:2x4 SP

1650F 1.5E

2x4 SP 1650F 1.5E *Except* 18-20:2x4 SP

No.2

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

SLIDER Left 2x4 SP No.2 -- 3-2-9, Right 2x4 SP No.2

-- 1-4-12

BRACING

BOT CHORD

TOP CHORD Structural wood sheathing directly applied or

2-1-15 oc purlins, except

2-0-0 oc purlins (2-2-0 max.): 5-9, 11-12.

Rigid ceiling directly applied or 2-2-0 oc bracing

WFRS 1 Row at midpt 6-21, 7-17

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

Max Horiz 2=-101 (LC 17)

Max Uplift 2=-196 (LC 12), 13=-228 (LC 13)

Max Grav 2=1861 (LC 1), 13=1861 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-4=-3188/581, 4-5=-2933/536.

5-6=-2586/511, 6-7=-3443/630,

7-9=-2950/575, 9-10=-3376/604 10-11=-6455/1053, 11-12=-6013/945,

12-13=-3281/559, 13-14=0/6

BOT CHORD 2-21=-454/2700, 19-21=-467/3330,

17-19=-485/3461, 16-17=-565/3633, 15-16=-439/2747, 13-15=-439/2747

WFBS 5-21=-95/925, 9-17=-132/1154,

11-16=-2686/493, 12-15=-25/92,

4-21=-145/213, 10-17=-826/265,

10-16=-385/2640, 6-19=0/296,

6-21=-1083/283, 7-19=-105/112,

7-17=-821/250, 12-16=-483/3420

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 9-11-4, Exterior(2R) 9-11-4 to 14-11-4, Interior (1) 14-11-4 to 27-8-4, Exterior(2R) 27-8-4 to 32-8-4, Interior (1) 32-8-4 to 38-8-0, Exterior (2E) 38-8-0 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP 1650F 1.5E 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) 13 and 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



July 5,2024



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

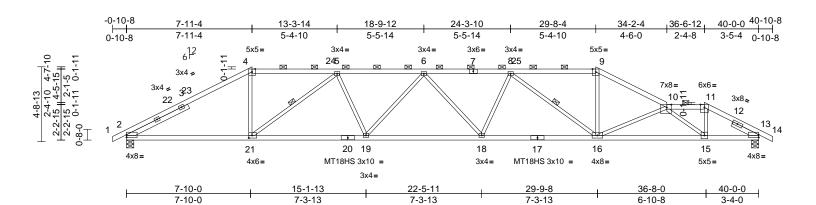


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187	
P240941-01	A2	Roof Special	1	1	Job Reference (optional	

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Itc. Wed J ID:MmDSInSB9wWtCWJS41ul2YzZ4Ox-RfC?PsB70Hq3NSgPqnL8w3ulTXb GKWrCDo 7J4

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660822 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:72.9

Plate Offsets (X, Y): [2:Edge,0-2-1], [10:0-3-6,Edge], [13:Edge,0-2-1], [21:0-2-8,0-2-0]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)		18-19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)			>615	180		244/190
BCLL	0.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.23	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		, ,					Weight: 175 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP 2400F

2.0E, 11-14:2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP 1650F 1.5E

2x3 SPF No 2 WFBS

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

-- 1-9-15 **BRACING**

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except

2-0-0 oc purlins (2-4-13 max.): 4-9, 10-11. **BOT CHORD**

Rigid ceiling directly applied or 8-5-3 oc

bracing.

WFBS 1 Row at midpt 5-21. 8-16

REACTIONS (size) 2=0-5-8, 13=0-5-8 Max Horiz 2=-82 (LC 17)

Max Uplift 2=-244 (LC 9), 13=-217 (LC 8)

Max Grav 2=1861 (LC 1), 13=1861 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-3195/512, 4-5=-2698/522,

> 5-6=-4024/708, 6-8=-4209/730, 8-9=-3252/611, 9-10=-3718/655

10-11=-2663/484, 11-13=-3227/538,

13-14=0/6

BOT CHORD 2-21=-412/2721, 19-21=-653/3833,

18-19=-727/4281, 16-18=-657/4111,

15-16=-717/4387, 13-15=-405/2738

WEBS 4-21=-121/1078, 9-16=-154/1327,

10-16=-1215/293, 11-15=-183/1445,

5-19=-28/517, 5-21=-1528/363, 6-19=-436/146, 6-18=-194/111, 8-18=0/317,

8-16=-1197/306, 10-15=-2221/414

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) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 7-11-4, Exterior(2R) 7-11-4 to 12-11-4, Interior (1) 12-11-4 to 29-8-4, Exterior(2E) 29-8-4 to 34-2-4, Interior (1) 34-2-4 to 36-6-12, Exterior (2E) 36-6-12 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.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP 1650F 1.5E crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 13. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



July 5,2024



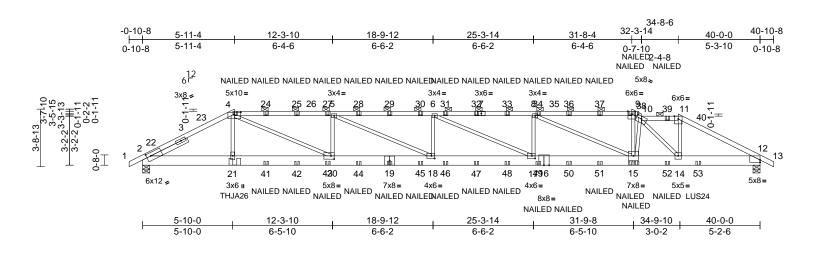
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187	
P240941-01	A1	Roof Special Girder	1	2	Job Reference (optional)	

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660823 LEE'S SUMMIT. MISSOURI

ID:Bvaj0rWykmH1wRmcRI?9HpzZ4Or-RfC?PsB70Hq3NSgPqnL8w3uITXbG KWrCDoi7



Scale = 1:74.6

Plate Offsets (X, Y): [2:0-3-5,0-2-8], [4:0-5-0,0-1-7], [10:0-4-0,0-2-0], [12:Edge,0-1-13], [17:0-2-8,0-2-0], [18:0-2-8,0-2-0], [20:0-2-8,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	0.49	17-18	>974	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.83	17-18	>572	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.12	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 420 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 1-4,7-9:2x4 SP 1650F TOP CHORD

1.5E, 4-7:2x4 SP 2400F 2.0E

2x8 SPF No.2 *Except* 19-16:2x8 SP 2400F **BOT CHORD** 2.0E

WEBS 2x3 SPF No.2

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

3-8-9 oc purlins, except

2-0-0 oc purlins (3-7-13 max.): 4-9, 10-11. BOT CHORD Rigid ceiling directly applied or 9-10-6 oc

bracing.

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

Max Horiz 2=63 (LC 12)

Max Uplift 2=-1042 (LC 9), 12=-1057 (LC 13) Max Grav 2=3542 (LC 1), 12=3685 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/16, 2-4=-6670/2116, 4-5=-10120/3309,

5-6=-11745/3819, 6-8=-10952/3527, 8-9=-7731/2482, 9-10=-8754/2761, 10-11=-5773/1854. 11-12=-6797/2104

12-13=0/16

BOT CHORD 2-21=-1840/5830, 20-21=-1841/5816,

18-20=-3263/10114, 17-18=-3777/11745, 15-17=-3485/10952, 14-15=-2490/8128,

12-14=-1754/5879

4-21=-7/518, 9-15=-851/3376, **WEBS**

11-14=-880/2901, 4-20=-1617/4848, 8-15=-3612/1217, 5-20=-1838/858, 5-18=-587/1832, 6-18=-533/410, 6-17=-927/323, 8-17=0/724,

10-15=-1513/489, 10-14=-3531/1167

NOTES

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

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

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

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

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 10-11-4, Interior (1) 10-11-4 to 31-8-4, Exterior(2E) 31-8-4 to 32-3-14, Interior (1) 32-3-14 to 34-8-6, Exterior (2R) 34-8-6 to 39-9-4, Interior (1) 39-9-4 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

arip DOL=1.60 Provide adequate drainage to prevent water ponding

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

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 1042 lb uplift at joint 2 and 1057 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.

- 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 5-11-10 from the left end to connect truss(es) to front face of bottom chord.
- 12) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent at 36-0-0 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: 1-4=-70, 4-9=-70, 9-10=-70, 10-11=-70, 11-13=-70. 2-12=-20 Concentrated Loads (lb)



July 5,2024

Continued on page 2

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Ply Job Truss Truss Type Qty Roof - HT Lot 187 2 P240941-01 Α1 Roof Special Girder 1 Job Reference (optional

DEVELOPMENT SERVICES 166660823 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

Vert: 4=-131 (F), 19=-39 (F), 21=-420 (F), 15=-77 (F), 9=-131 (F), 24=-131 (F), 25=-131 (F), 27=-131 (F), 28=-131 (F), 29=-131 (F), 30=-131 (F), 31=-131 (F), 32=-131 (F), 33=-131 (F), 34=-131 (F), 36=-131 (F), 37=-131 (F), 38=-128 (F), 49=-128 (F), 41=-39 (F), 45=-20 (F)

(F), 42=-39 (F), 43=-39 (F), 44=-39 (F), 45=-39 (F), 46=-39 (F), 47=-39 (F), 48=-39 (F), 49=-39 (F), 50=-39 (F), 51=-39 (F), 52=-38 (F), 53=-423 (F)

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Icc. Wed Jun 17 2024 M

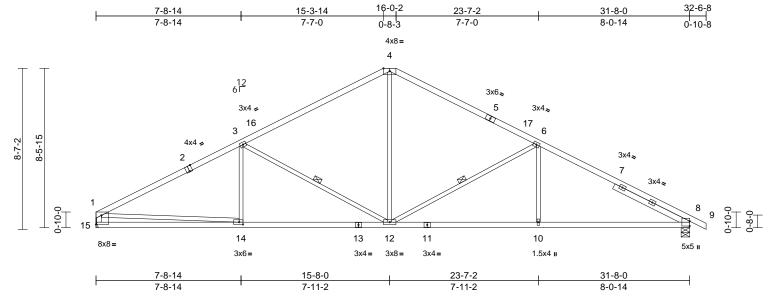


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187	
P240941-01	B7	Hip	1	1	Job Reference (optional	

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I

DEVELOPMENT SERVICES 166660824 LEE'S SUMMIT. MISSOURI c. Wed Jd 06 1 ID:yBXJ7mPJs?8IL2atPvK2QvzZ4P_-RfC?PsB70Hq3NSgPqnL8w3ulTXbGh WrCDoi7J4z

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW



Scale = 1:61.4

Plate Offsets (X, Y): [2:0-2-0,Edge], [14:0-2-8,0-1-8], [15:Edge,0-5-13]

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	0.99	Vert(LL)	-0.12	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.76	Vert(CT)	-0.26	12-14	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 142 lb	FT = 20%

LUMBER

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

1.5E

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 15-1:2x4 SP No.2 WFBS SLIDER

Right 2x4 SP No.2 -- 4-5-11

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

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

bracing. WEBS

1 Row at midpt 3-12, 6-12

REACTIONS (size) 8=0-5-8, 15= Mechanical Max Horiz 15=-163 (LC 17)

Max Uplift 8=-239 (LC 13), 15=-212 (LC 12)

Max Grav 8=1481 (LC 1), 15=1418 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-2309/355, 3-4=-1671/344,

4-6=-1667/340, 6-8=-2407/362, 8-9=0/6,

1-15=-1341/255

BOT CHORD 14-15=-230/480, 12-14=-342/1971, 10-12=-224/2033, 8-10=-224/2033

WEBS 3-14=0/244, 3-12=-731/291, 6-12=-794/305,

6-10=0/336, 1-14=-159/1509, 4-12=-100/859

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) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 16-0-0, Exterior(2R) 16-0-0 to 23-0-14, Interior (1) 23-0-14 to 32-10-8 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.
- Bearings are assumed to be: , Joint 8 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 15 and 239 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 5,2024



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

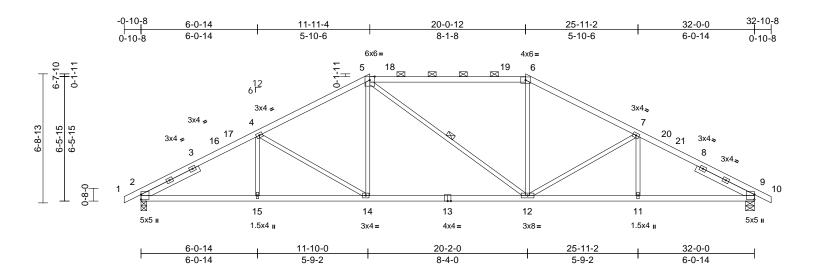
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	B5	Hip	1	1	.lob Reference (optional)

c. Wed Jd 06 1 Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I ID:uZf4YRRZOcO0aMkFWKNWVKzZ4Oy-RfC?PsB70Hq3NSgPqnL8w3uIT2bGKWrCDc

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660825 LEE'S SUMMIT. MISSOURI



Scale = 1:60.1

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	0.74	Vert(LL)	-0.15	12-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.34	12-14	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.11	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 146 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 5-6:2x4 SP 2400F TOP CHORD

2.0E

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

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

-- 3-4-5

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-15 oc purlins, except

2-0-0 oc purlins (4-4-9 max.): 5-6. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

WEBS 1 Row at midpt 5-12 2=0-3-8, 9=0-5-8 REACTIONS

(size) Max Horiz 2=-120 (LC 17)

Max Uplift 2=-207 (LC 12), 9=-207 (LC 13)

Max Grav 2=1501 (LC 1), 9=1501 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6. 2-4=-2501/426. 4-5=-2051/405. TOP CHORD

5-6=-1763/409, 6-7=-2052/405,

7-9=-2501/426, 9-10=0/6 BOT CHORD

2-15=-301/2117, 14-15=-301/2117, 12-14=-172/1762, 11-12=-297/2116,

9-11=-297/2116

WEBS 4-15=0/217, 4-14=-424/217, 5-14=-21/430,

5-12=-191/193, 6-12=0/430, 7-12=-423/218,

7-11=0/216

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 11-11-4, Exterior(2R) 11-11-4 to 19-0-2, Interior (1) 19-0-2 to 20-0-12, Exterior(2R) 20-0-12 to 27-1-10, Interior (1) 27-1-10 to 32-10-8 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 207 lb uplift at joint 2 and 207 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



July 5,2024



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

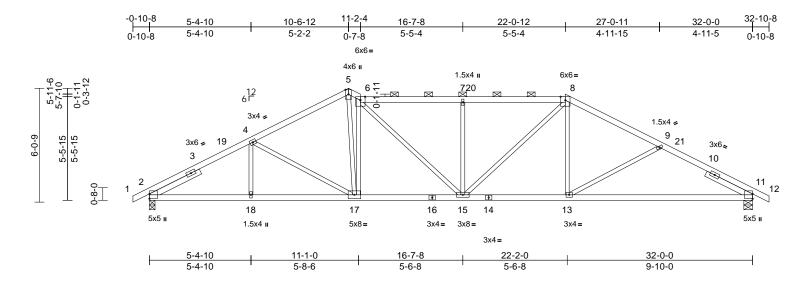


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187	
P240941-01	B4	Roof Special	1	1	Job Reference (optional	

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, II c. Wed Jul 0611 ID:jSUwEhlf_E0amgO8NWgxY0zZ4P7-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660826



Scale = 1:61.1

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	0.63	Vert(LL)	-0.26	11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.54	11-13	>708	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.90	Horz(CT)	0.11	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 151 lb	FT = 20%

LUMBER

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

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

No.2 -- 2-8-10

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-10-14 oc purlins, except 2-0-0 oc purlins (3-2-10 max.): 6-8.

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

bracing.

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

Max Horiz 2=-108 (LC 13)

Max Uplift 2=-192 (LC 12), 11=-294 (LC 13) Max Grav 2=1501 (LC 1), 11=1501 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=0/6, 2-4=-2520/464, 4-5=-2117/444,

5-6=-2098/474, 6-7=-2253/514, 7-8=-2253/514, 8-9=-2208/440,

9-11=-2489/527, 11-12=0/6

2-18=-353/2123, 17-18=-353/2123, BOT CHORD

> 15-17=-261/1992, 13-15=-224/1912, 11-13=-378/2095

WEBS 4-18=0/210, 4-17=-413/186, 5-17=-304/1549,

6-17=-1259/365, 6-15=-149/477,

7-15=-494/208, 8-15=-163/471, 8-13=0/367,

9-13=-221/200

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 10-6-12, Exterior(2E) 10-6-12 to 11-2-4, Interior (1) 11-2-4 to 22-0-12, Exterior(2R) 22-0-12 to 27-2-10, Interior (1) 27-2-10 to 32-10-8 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 192 lb uplift at joint 2 and 294 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



July 5,2024



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

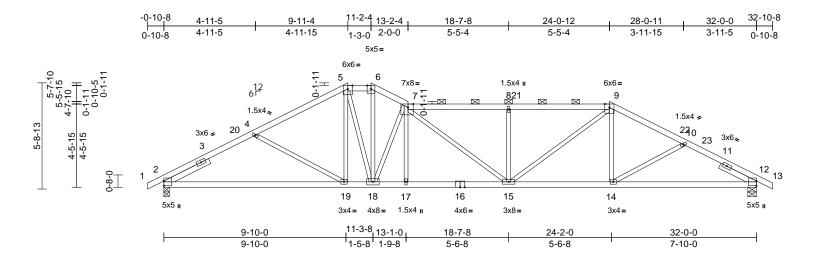


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	B3	Roof Special	1	1	.lob Reference (optional)

c. Wed 🗸 0611

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660827 LEE'S SUMMIT. MISSOURI

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I ID:QN5iK6QxdJG9yC93zdrHy7zZ4Oz-RfC?PsB70Hq3NSgPqnL8w3uITXbGLWrCDoi7J4z



Scale = 1:62.2

Plate Offsets (X, Y): [7:0-3-6,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	0.68	Vert(LL)	-0.24	2-19	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.50	2-19	>761	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.11	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 154 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 2-8-10, Right 2x4 SP SLIDER

No.2 -- 2-1-15

BRACING TOP CHORD

Structural wood sheathing directly applied or

2-7-15 oc purlins, except

2-0-0 oc purlins (2-11-10 max.): 5-6, 7-9. **BOT CHORD**

Rigid ceiling directly applied or 1-4-12 oc

bracing.

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

Max Horiz 2=-101 (LC 17)

Max Uplift 2=-185 (LC 12), 12=-292 (LC 13)

Max Grav 2=1501 (LC 1), 12=1501 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-4=-2493/525, 4-5=-2211/446,

> 5-6=-1997/479, 6-7=-2288/529, 7-8=-2719/583, 8-9=-2719/584,

9-10=-2320/464, 10-12=-2483/508, 12-13=0/6

BOT CHORD 2-19=-408/2098, 18-19=-248/1912,

17-18=-390/2627, 15-17=-392/2625

14-15=-277/2047, 12-14=-370/2077 **WEBS** 5-19=0/509, 5-18=-216/453, 6-18=-233/943,

7-18=-1504/310, 7-17=0/214, 7-15=-105/234,

8-15=-492/208, 9-15=-185/852, 9-14=0/259,

4-19=-277/225, 10-14=-68/144

NOTES

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

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 9-11-4, Exterior(2E) 9-11-4 to 13-2-4, Interior (1) 13-2-4 to 24-0-12, Exterior(2R) 24-0-12 to 29-0-12, Interior (1) 29-0-12 to 32-10-8 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 185 lb uplift at joint 2 and 292 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



July 5,2024



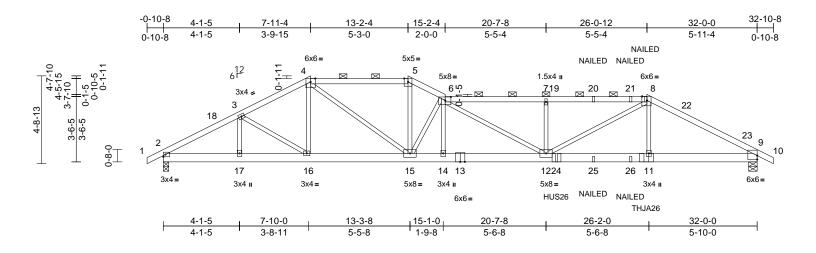
🗥 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187	
P240941-01	B2	Roof Special Girder	1	2	Job Reference (optional	

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, II c. Wed July 10 10 11 ID:jj0LoVVKzS9AIHBPtbTwlbzZ4Os-RfC?PsB70Hq3NSgPqnL8w3uITXbGK\ /rCDoi7J4zJ0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660828 LEE'S SUMMIT. MISSOURI



Scale = 1:62.1

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.89	Vert(LL)	-0.23	11-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.41	11-12	>932	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.53	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 294 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 WFBS

BRACING

Structural wood sheathing directly applied or TOP CHORD

4-7-6 oc purlins, except

2-0-0 oc purlins (4-6-8 max.): 4-5, 6-8.

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

bracing

REACTIONS (size) 2=0-3-8, 9=0-5-8

Max Horiz 2=-82 (LC 17)

Max Uplift 2=-412 (LC 12), 9=-908 (LC 13)

Max Grav 2=2189 (LC 1), 9=3238 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/11, 2-3=-3841/987, 3-4=-3746/1023, TOP CHORD

4-5=-4809/1343, 5-6=-5434/1487, 6-7=-7900/2256, 7-8=-7900/2256,

8-9=-6146/1772, 9-10=0/11

BOT CHORD 2-17=-810/3250, 16-17=-810/3250, 15-16=-787/3319, 14-15=-1692/6705

12-14=-1695/6709, 11-12=-1451/5251,

9-11=-1454/5277

4-16=-36/208, 4-15=-559/1970,

5-15=-519/2104, 6-15=-3615/1017,

6-14=-101/71, 6-12=-602/1467,

7-12=-663/322, 8-12=-786/3070

8-11=-106/792, 3-16=-118/263, 3-17=-8/94

NOTES

WFBS

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 0-5-0 oc.

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-5, Interior (1) 4-1-5 to 7-11-4, Exterior(2E) 7-11-4 to 15-2-4, Interior (1) 15-2-4 to 26-0-12, Exterior(2R) 26-0-12 to 31-0-12, Interior (1) 31-0-12 to 32-10-8 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 412 lb uplift at joint 2 and 908 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent at 21-2-4 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 26-0-6 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 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, 5-6=-70, 6-8=-70, 8-10=-70, 2-9=-20

Concentrated Loads (lb)

Vert: 8=-131 (F), 11=-426 (F), 20=-131 (F), 21=-131 (F), 24=-1535 (F), 25=-39 (F), 26=-39 (F)



July 5,2024



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

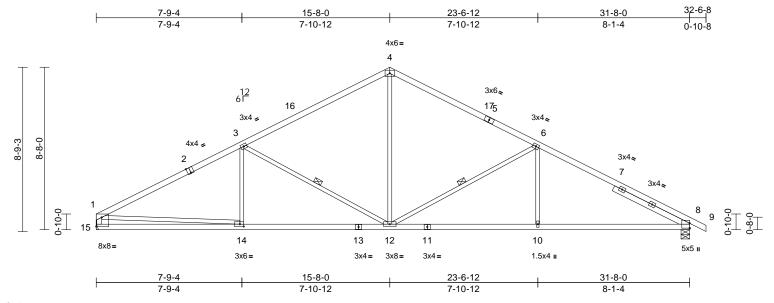


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187	
P240941-01	B8	Common	2	1	Job Reference (optional	

DEVELOPMENT SERVICES 166660829 LEE'S SUMMIT. MISSOURI

ID:Be2IS1JHIY8RNqzKxEBA5DzZ4P6-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoi7

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW



Scale = 1:61.5

Plate Offsets (X, Y): [2:0-2-0,Edge], [14:0-2-8,0-1-8], [15:Edge,0-5-13]

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	0.96	Vert(LL)	-0.12	12-14	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.76	Vert(CT)	-0.26	12-14	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		, ,					Weight: 142 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 4-5,1-2:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 15-1:2x4 SP No.2 WFBS SLIDER

Right 2x4 SP No.2 -- 4-5-15

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 9-11-12 oc

bracing. WEBS

1 Row at midpt 6-12, 3-12 REACTIONS (size) 8=0-5-8, 15= Mechanical

Max Horiz 15=-163 (LC 13)

Max Uplift 8=-239 (LC 13), 15=-212 (LC 12) Max Grav 8=1481 (LC 1), 15=1418 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-3=-2308/379, 3-4=-1670/372,

4-6=-1666/368, 6-8=-2405/384, 8-9=0/6,

1-15=-1340/268 **BOT CHORD**

14-15=-232/485, 12-14=-340/1968, 10-12=-239/2031, 8-10=-239/2031

WEBS 4-12=-99/861, 6-12=-793/304, 6-10=0/336, 3-12=-729/290, 3-14=0/245, 1-14=-175/1499

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) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 16-0-0, Exterior(2R) 16-0-0 to 21-0-0, Interior (1) 21-0-0 to 32-10-8 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 8 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 212 lb uplift at joint 15 and 239 lb uplift at joint 8.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 5,2024



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 187
P240941-01	B6	Hip	1	1	Job Reference (optional)

6-9-2

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

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, II c. Wed Jul 0611 ID:MmDSInSB9wWtCWJS41ul2YzZ4Ox-RfC?PsB70Hq3NSgPqnL8w3ulTXb

6-9-2

DEVELOPMENT SERVICES 166660830 LEE'S SUMMIT. MISSOURI GKWrCDo 7J

7-0-14

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

32-6-8 6-8-14 13-7-4 17-8-12 24-7-2 31-8-0 6-8-14 6-10-6 4-1-8 6-10-6 7-0-14 0-10-8 6x6= 4x6= 3 4 Ø 3x4≤ 1<u>2</u> 3x4**、** 3x4 -5 2 7-8-13 7-5-1 7-5-8x8= 14 13 12 11 10 5x5 ı 3x8= 3x4= 3x4= 3x8= 1.5x4 II 6-8-14 13-6-0 17-10-0 24-7-2 31-8-0

Scale = 1:61.9

Plate Offsets (X, Y): [1:Edge,0-5-13], [14:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	-0.11	13-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.24	13-14	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.08	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 149 lb	FT = 20%

4-4-0

LUMBER

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

1.5E

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 15-1:2x4 SP No.2 WFBS SLIDER

Right 2x4 SP No.2 -- 3-11-0 **BRACING**

TOP CHORD

WEBS

Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-8 max.): 3-4.

6-8-14

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

bracing.

1 Row at midpt 3-11

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

Max Horiz 15=-142 (LC 13)

Max Uplift 8=-224 (LC 13), 15=-196 (LC 12)

Max Grav 8=1481 (LC 1), 15=1418 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-2320/379, 2-3=-1825/374,

> 3-4=-1540/384, 4-6=-1835/375, 6-8=-2443/396, 8-9=0/6, 1-15=-1348/260

BOT CHORD 14-15=-188/398, 13-14=-309/1992,

11-13=-108/1526, 10-11=-263/2067, 8-10=-263/2067

2-14=-16/188, 2-13=-561/241, 3-13=-58/390,

3-11=-170/213, 4-11=-42/393, 6-11=-624/255,

6-10=0/297, 1-14=-204/1611

NOTES

WEBS

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) 0-5-12 to 5-5-12, Interior (1) 5-5-12 to 13-11-4, Exterior(2E) 13-11-4 to 18-0-12, Exterior(2R) 18-0-12 to 24-11-2, Interior (1) 24-11-2 to 32-10-8 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. Bearings are assumed to be: , Joint 8 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 15 and 224 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



July 5,2024



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 187 P240941-01 A10 Common 3 1

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

Job Reference (optional Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I

c. Wed Jd 06 ID:71A2siLYH9O9d77j2eDeAezZ4P4-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166660831

LEE'S SUMMIT. MISSOURI

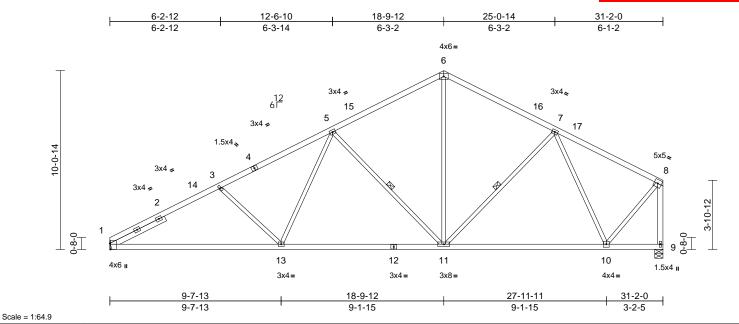


Plate Offsets (X, Y): [1:0-4-1,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.22	1-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.45	1-13	>818	180		
BCLL	0.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 150 lb	FT = 20%

LUMBER

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

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

Left 2x4 SP No.2 -- 3-5-6 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 2-2-0 oc

bracing WFBS

1 Row at midpt 5-11, 7-11

REACTIONS (size) 1= Mechanical, 9=0-5-8

Max Horiz 1=247 (LC 9)

Max Uplift 1=-230 (LC 12), 9=-181 (LC 13)

Max Grav 1=1396 (LC 1), 9=1396 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

1-3=-2383/423, 3-5=-2094/391, TOP CHORD

5-6=-1323/357, 6-7=-1322/337

7-8=-898/217, 8-9=-1395/234 1-13=-481/2019, 11-13=-367/1610,

BOT CHORD 10-11=-250/1042, 9-10=-69/75

WEBS 6-11=-129/697, 3-13=-329/241,

5-13=-53/483, 5-11=-779/311, 7-11=-94/211,

7-10=-771/230, 8-10=-140/1111

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 5-0-0, Interior (1) 5-0-0 to 18-9-12, Exterior(2R) 18-9-12 to 23-9-12, Interior (1) 23-9-12 to 31-0-4 zone; cantilever left and right exposed; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 9 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to 6) bearing plate capable of withstanding 230 lb uplift at ioint 1.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 5,2024



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 187 P240941-01 A9 1 Common

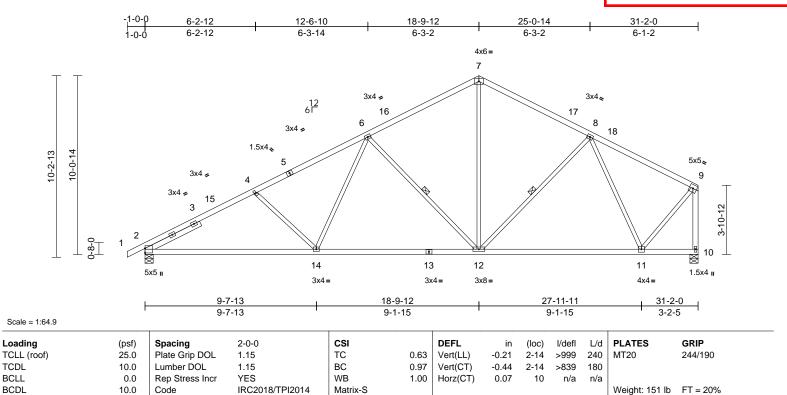
Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660832 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I c. Wed Jul 08 ID:71A2siLYH9O9d77j2eDeAezZ4P4-RfC?PsB70Hq3NSgPqnL8w3uITXbGk WrCDoi7J4z



LUMBER

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

2x3 SPF No.2 *Except* 10-9:2x4 SP No.2 WEBS Left 2x4 SP No.2 -- 3-5-6 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals.

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

bracing

WEBS 6-12, 8-12 1 Row at midpt REACTIONS (size) 2=0-5-8, 10=0-5-8 Max Horiz 2=250 (LC 11)

Max Uplift 2=-255 (LC 12), 10=-181 (LC 13) Max Grav 2=1467 (LC 1), 10=1395 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/10, 2-4=-2375/419, 4-6=-2088/380, TOP CHORD

6-7=-1321/354 7-8=-1321/333 8-9=-897/216, 9-10=-1393/234

BOT CHORD 2-14=-478/2011, 12-14=-366/1607, 11-12=-250/1041. 10-11=-69/75

WEBS 7-12=-127/696, 4-14=-324/238, 6-14=-51/481, 6-12=-776/311, 8-12=-94/210,

8-11=-771/230, 9-11=-139/1110

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) -1-0-0 to 4-0-0, Interior (1) 4-0-0 to 18-9-12, Exterior(2R) 18-9-12 to 23-9-12, Interior (1) 23-9-12 to 31-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 5,2024



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 187 P240941-01 **A8** 2 1 Common Job Reference (optional

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

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660833 LEE'S SUMMIT. MISSOURI

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I c. Wed Jul 08 ID:fqcgfMKwWrGI?_YXVxiPeRzZ4P5-RfC?PsB70Hq3NSgPqnL8w3ulTXbGi

-0-10-8 6-2-12 18-9-12 25-0-14 31-2-0 12-6-10 0-10-8 6-2-12 6-3-14 6-3-2 6-3-2 6-1-2 4x6= 3x4 = 3x4 12 6 17 8 3x4 **=** 18 1.5x4、 10-2-1 5x5≈ 3-10-12 0-8-0 10 × 14 13 12 11 5x5 1.5x4 II 3x4= 9-7-13 18-9-12 27-11-11 31-2-0 9-7-13 9-1-15 9-1-15 3-2-5 Scale = 1:64.9 Loading Spacing 2-0-0 CSI **DEFL** I/defI L/d **PLATES** GRIP (psf) (loc) TCLL (roof) 25.0 Plate Grip DOL 1.15 TC 0.63 Vert(LL) -0.21 2-14 >999 240 MT20 244/190

LUMBER

TCDI

BCLL

BCDL

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

2x3 SPF No.2 *Except* 10-9:2x4 SP No.2 WEBS Left 2x4 SP No.2 -- 3-5-6 SLIDER

10.0

0.0

Lumber DOL

Rep Stress Incr

1 15

YES

IRC2018/TPI2014

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals.

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

WEBS

6-12, 8-12 1 Row at midpt REACTIONS (size) 2=0-5-8, 10=0-5-8 Max Horiz 2=249 (LC 11)

> Max Uplift 2=-252 (LC 12), 10=-181 (LC 13) Max Grav 2=1458 (LC 1), 10=1395 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-2377/420, 4-6=-2089/382,

6-7=-1322/355, 7-8=-1321/334, 8-9=-897/216, 9-10=-1394/234

BOT CHORD 2-14=-479/2013, 12-14=-366/1607, 11-12=-250/1041. 10-11=-69/75 **WEBS** 7-12=-127/696, 4-14=-326/239,

6-14=-51/481, 6-12=-777/311, 8-12=-94/210,

8-11=-771/230, 9-11=-140/1110

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-9-12, Exterior(2R) 18-9-12 to 23-9-12, Interior (1) 23-9-12 to 31-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

0.97

1.00

Vert(CT)

Horz(CT)

-0.44

0.07

2-14

10

>838

n/a

180

Weight: 151 lb

FT = 20%

All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

BC

WB

Matrix-S

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

LOAD CASE(S) Standard



July 5,2024



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 187 P240941-01 Α7 Hip 1

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

LEE'S SUMMIT. MISSOURI Job Reference (optional c. Wed Jd 06 Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I ID:nLubOpU3SrvS3z21IARSfAzZ4Ou-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

WrCDoi7

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166660834

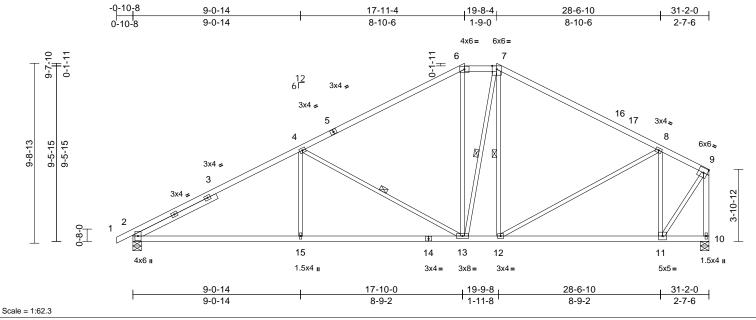


Plate Offsets (X, Y): [2:0-3-9,0-1-5]

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	0.79	Vert(LL)	-0.16	2-15	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.34	2-15	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 161 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E *Except* 6-7:2x4 SP TOP CHORD

No.2

BOT CHORD 2x4 SP No.2

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

WEBS 1 Row at midpt 4-13, 7-12, 7-13 REACTIONS 2=0-5-8, 10=0-5-8 (size)

Max Horiz 2=240 (LC 9)

Max Uplift 2=-248 (LC 12), 10=-174 (LC 13)

Max Grav 2=1458 (LC 1), 10=1395 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-2=0/6, 2-4=-2322/363, 4-6=-1463/332,

6-7=-1175/343, 7-8=-1397/312,

8-9=-803/193, 9-10=-1413/215

2-15=-428/1955, 13-15=-428/1955 12-13=-210/1124, 11-12=-198/763,

10-11=-81/86

4-15=0/392, 4-13=-906/338, 6-13=-80/360,

7-12=-94/91, 8-12=-39/449, 8-11=-989/326,

9-11=-265/1378, 7-13=-155/444

NOTES

WEBS

BOT CHORD

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 17-11-4, Exterior(2E) 17-11-4 to 19-8-4, Exterior(2R) 19-8-4 to 26-9-2, Interior (1) 26-9-2 to 31-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 10. 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



July 5,2024







Job Truss Truss Type Qty Ply Roof - HT Lot 187 P240941-01 A6 Hip 1 1

Job Reference (optional

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660835 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

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

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, II c. Wed July 08 ID:J8KCATTRhXmbRqTqCSwD7zzZ4Ov-RfC?PsB70Hq3NSgPqnL8w3uITX<mark>|</mark>GKWrCDe

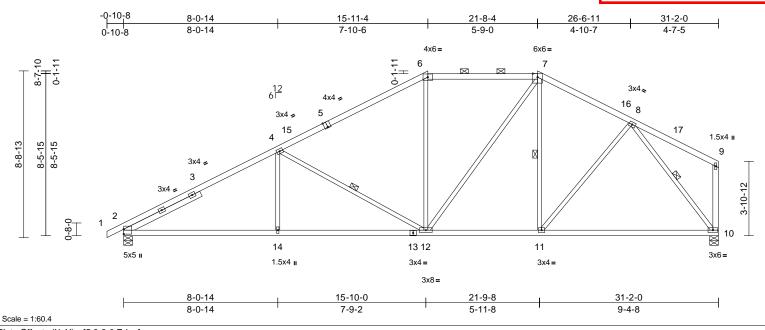


Plate Offsets (X, Y): [5:0-2-0,Edge]

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	0.82	Vert(LL)	-0.21	10-11	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.43	10-11	>861	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 154 lb	FT = 20%

LUMBER

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

1.5E

BOT CHORD 2x4 SP No.2

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

Left 2x4 SP No.2 -- 4-5-11 **BRACING**

TOP CHORD

Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 8-6-11 oc

bracing.

WEBS 1 Row at midpt 4-12, 7-11, 8-10

REACTIONS 2=0-5-8, 10=0-5-8 (size)

Max Horiz 2=228 (LC 9)

Max Uplift 2=-236 (LC 12), 10=-154 (LC 13) Max Grav 2=1458 (LC 1), 10=1395 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-2362/370, 4-6=-1627/355,

> 6-7=-1339/360, 7-8=-1333/334, 8-9=-152/135, 9-10=-147/97

BOT CHORD 2-14=-465/1993, 12-14=-465/1993,

11-12=-225/1127, 10-11=-241/901

WEBS 4-14=0/348, 4-12=-759/296, 6-12=0/301, 7-11=-157/128, 8-10=-1451/324,

7-12=-145/457, 8-11=-31/427

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 15-11-4, Exterior(2E) 15-11-4 to 21-8-4, Exterior(2R) 21-8-4 to 28-9-2, Interior (1) 28-9-2 to 31-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 10. 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



July 5,2024



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

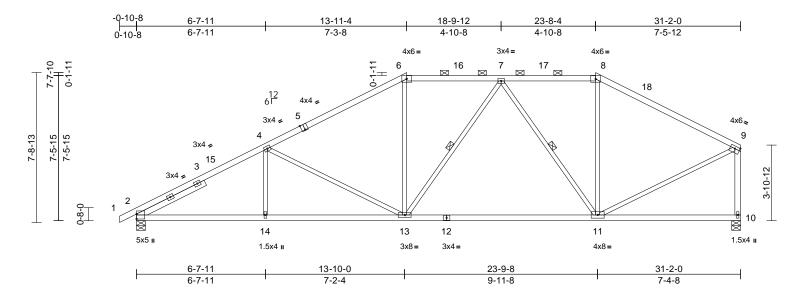


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	A5	Hip	1	1	Job Reference (optional)

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, c. Wed Jd 081 ID:ryngz7SpwEekpgueeIP_alzZ4Ow-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660836



Scale = 1:59.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.21	11-13	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.45	11-13	>836	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		. ,					Weight: 150 lb	FT = 20%

LUMBER

2x4 SP 1650F 1.5E *Except* 6-8,1-5:2x4 SP TOP CHORD

No.2

BOT CHORD 2x4 SP No.2

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

Left 2x4 SP No.2 -- 3-11-0 **BRACING**

TOP CHORD

WEBS

Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-6-11 max.): 6-8.

BOT CHORD Rigid ceiling directly applied or 8-2-11 oc

bracing.

1 Row at midpt 7-11, 7-13

REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=214 (LC 9)

Max Uplift 2=-222 (LC 12), 10=-131 (LC 13)

Max Grav 2=1458 (LC 1), 10=1395 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-4=-2417/384, 4-6=-1810/356,

6-7=-1515/358, 7-8=-1112/316,

8-9=-1351/289, 9-10=-1337/284

BOT CHORD 2-14=-498/2049, 13-14=-498/2049,

11-13=-324/1435, 10-11=-74/93

WEBS 4-14=0/260, 4-13=-605/271, 6-13=-7/391, 8-11=0/259, 9-11=-180/1185, 7-11=-653/179,

7-13=-72/200

NOTES

TOP CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 13-11-4, Exterior(2R) 13-11-4 to 21-0-2, Interior (1) 21-0-2 to 23-8-4, Exterior(2E) 23-8-4 to 31-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 10. 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



July 5,2024



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

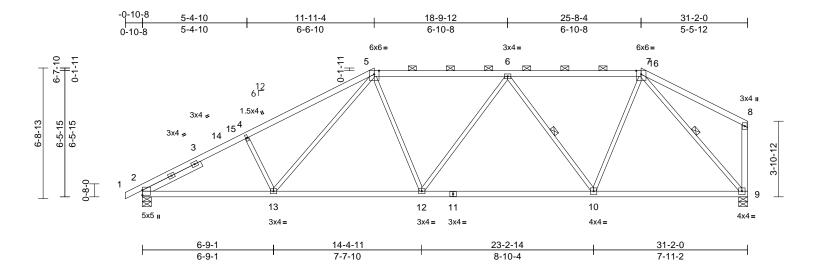


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187	
P240941-01	A4	Hip	1	1	Job Reference (optional	

c. Wed Jd 06 1 Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I ID:ryngz7SpwEekpgueelP_alzZ4Ow-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

DEVELOPMENT SERVICES 166660837 LEE'S SUMMIT. MISSOURI /rCDoi7J4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW



Scale = 1:59.3

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	0.78	Vert(LL)	-0.12	10-12	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.28	10-12	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.08	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 146 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-5:2x4 SP 1650F

1.5E

BOT CHORD 2x4 SP No.2

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

SLIDER Left 2x4 SP No.2 -- 3-4-6

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals, and

2-0-0 oc purlins (3-6-3 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 8-1-8 oc

bracing.

WEBS 6-10, 7-9 1 Row at midpt

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

Max Horiz 2=200 (LC 11)

Max Uplift 2=-204 (LC 12), 9=-143 (LC 8)

Max Grav 2=1458 (LC 1), 9=1395 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-4=-2447/396, 4-5=-2290/434, 5-6=-1718/357. 6-7=-1296/298.

7-8=-159/173, 8-9=-195/148

BOT CHORD 2-13=-521/2077, 12-13=-365/1654,

10-12=-371/1706, 9-10=-241/999 **WEBS** 4-13=-267/243, 5-13=-168/491,

5-12=-37/298, 6-12=-133/178,

6-10=-746/228, 7-10=-80/843, 7-9=-1487/282

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 11-11-4, Exterior(2R) 11-11-4 to 18-9-12, Interior (1) 18-9-12 to 25-8-4, Exterior(2E) 25-8-4 to 31-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 9. 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



July 5,2024



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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 187
P240941-01	A12	Half Hip	1	1	Job Reference (optional

Run: 8 91 S 8 63 Jun 17 2024 Print: 8 630 S Jun 17 2024 MiTek Industries ID:n3N9p?HPSdlsWMEmG5eTTbzZ4P9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDd

LEE'S SUMMIT. MISSOURI c. Wed Ju

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660838

31-2-0 8-0-14 15-11-4 23-4-14 8-0-14 7-10-6 7-5-10 7-9-2 6x6= 1.5x4 II 5x5= 156 ⊠ 16 5 12 6 [4x4 = 3x4 -3x4 = 13 8 8 12 11 10 9 4x6 ı 3x4 ı 1.5x4 ı 3x4= 5x8= 3x4= 8-0-14 15-10-0 23-4-14 31-2-0 8-0-14 7-9-2 7-6-14 7-9-2 Scale = 1:60.4

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.11	1-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.26	1-12	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 155 lb	FT = 20%

LUMBER

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

1.5E

BOT CHORD 2x4 SP No.2

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

Left 2x4 SP No.2 -- 4-5-11 **BRACING**

TOP CHORD

WEBS

Structural wood sheathing directly applied,

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

(2-2-0 max.): 5-7.

BOT CHORD Rigid ceiling directly applied or 7-4-12 oc

bracing

1 Row at midpt 7-8, 3-10, 5-9, 6-9

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

Max Horiz 1=364 (LC 9)

Max Uplift 1=-211 (LC 12), 8=-283 (LC 9)

Max Grav 1=1396 (LC 1), 8=1396 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-3=-2365/372. 3-5=-1633/347.

5-6=-1044/321, 6-7=-1041/319, 7-8=-1328/314

1-12=-624/1997, 10-12=-624/1997,

9-10=-433/1341, 8-9=-150/173 **WEBS** 3-12=0/339, 3-10=-747/302, 5-10=-58/533,

5-9=-447/167, 6-9=-625/287, 7-9=-307/1506

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 15-11-4, Exterior(2R) 15-11-4 to 23-0-2, Interior (1) 23-0-2 to 31-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 8 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



July 5,2024



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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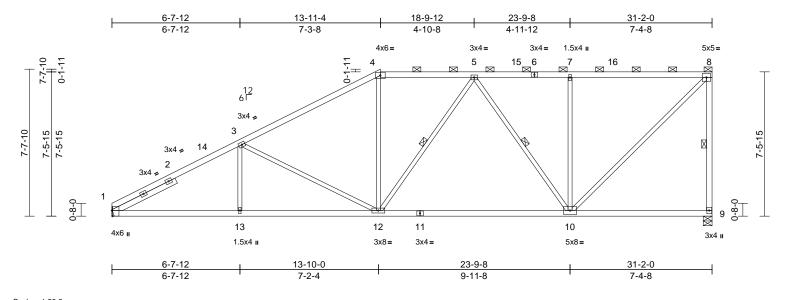
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	A13	Half Hip	1	1	Job Reference (optional

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, I ID:n3N9p?HPSdlsWMEmG5eTTbzZ4P9-RfC?PsB70Hq3NSgPqnL8w3uITXb

DEVELOPMENT SERVICES 166660839 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

c. Wed Jd 0



Scale = 1:59.8

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

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	TC	0.92	Vert(LL)	-0.21	10-12	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.46	10-12	>814	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 153 lb	FT = 20%

LUMBER

2x4 SP No.2 *Except* 1-4:2x4 SP 1650F TOP CHORD

1.5E

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 8-9:2x4 SP No.2 WFBS

SLIDER Left 2x4 SP No.2 -- 3-8-2 **BRACING**

TOP CHORD

Structural wood sheathing directly applied or

3-2-15 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 4-8.

BOT CHORD Rigid ceiling directly applied or 7-4-3 oc

bracing

WEBS 1 Row at midpt 8-9, 5-12, 5-10 REACTIONS (size) 1= Mechanical, 9=0-5-8

Max Horiz 1=320 (LC 9)

Max Uplift 1=-197 (LC 12), 9=-289 (LC 9) Max Grav 1=1396 (LC 1), 9=1396 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-3=-2426/387, 3-4=-1813/350, TOP CHORD

4-5=-1518/352, 5-7=-1136/301,

7-8=-1136/301, 8-9=-1338/314 BOT CHORD 1-13=-627/2059, 12-13=-627/2059,

10-12=-401/1433, 9-10=-132/152

WEBS 4-12=-7/390, 3-13=0/262, 3-12=-604/276,

5-12=-74/216, 5-10=-523/168, 7-10=-497/232, 8-10=-309/1577

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 5-0-0, Interior (1) 5-0-0 to 13-11-4, Exterior(2R) 13-11-4 to 21-0-2, Interior (1) 21-0-2 to 31-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 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 197 lb uplift at
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



July 5,2024



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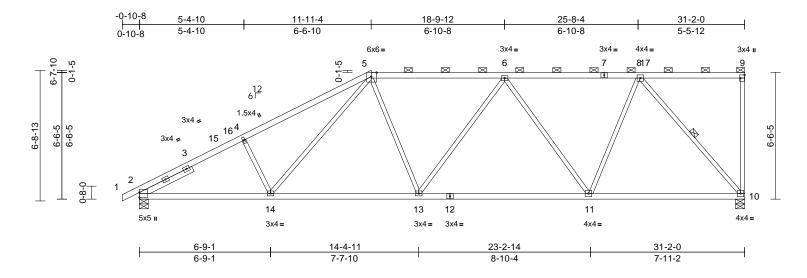
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	A14	Half Hip	1	1	Job Reference (optional

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I ID:n3N9p?HPSdlsWMEmG5eTTbzZ4P9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDo

DEVELOPMENT SERVICES 166660840 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

c. Wed Jd 067



Scale = 1:59.3

Plate Offsets (X, Y): [5:0-3-5,Edge], [9: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	0.73	Vert(LL)	-0.11	11-13	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.27	11-13	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S		, ,					Weight: 144 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-5:2x4 SP 1650F

1.5E

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

SLIDER Left 2x4 SP No.2 -- 3-0-6

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD Rigid ceiling directly applied or 7-5-4 oc

bracing

WEBS 1 Row at midpt 8-10

REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=278 (LC 9) Max Uplift 2=-202 (LC 12), 10=-294 (LC 9)

Max Grav 2=1460 (LC 1), 10=1397 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-2463/391, 4-5=-2291/429,

5-6=-1715/351, 6-8=-1319/293,

8-9=-133/138, 9-10=-145/74 **BOT CHORD** 2-14=-622/2078, 13-14=-461/1655

11-13=-425/1700, 10-11=-285/1021

WEBS 4-14=-265/244, 5-14=-169/486,

5-13=-42/292, 6-13=-128/183, 6-11=-663/207, 8-11=-56/785,

8-10=-1561/354

NOTES

Unbalanced roof live loads have been considered for

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 11-11-4, Exterior(2R) 11-11-4 to 18-9-12, Interior (1) 18-9-12 to 31-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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) 10 and 2. This connection is for uplift
- only and does not consider lateral forces. This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



July 5,2024



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

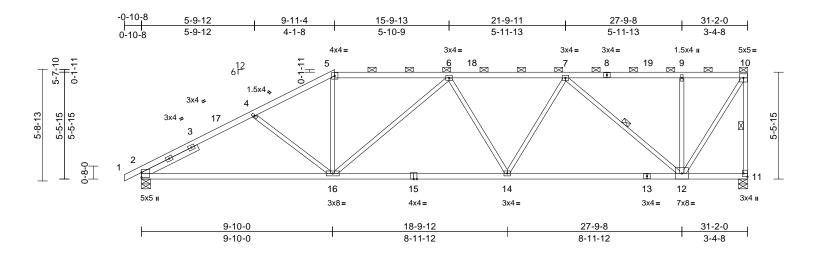
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	A15	Half Hip	1	1	Job Reference (optional

c. Wed Jd 08 1 Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I ID:JtpncfGnhJd?vCgZiO6ExNzZ4PA-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J4z

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660841 LEE'S SUMMIT. MISSOURI



Scale = 1:59.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.23	2-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	ВС	0.99	Vert(CT)	-0.49	2-16	>765	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.09	11	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 WEBS

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-6-11 oc purlins, except end verticals, and

2-0-0 oc purlins (3-8-6 max.): 5-10.

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

bracing.

WFBS 1 Row at midpt 10-11, 7-12

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

> Max Horiz 2=232 (LC 9) Max Uplift 2=-182 (LC 12), 11=-297 (LC 9)

Max Grav 2=1460 (LC 1), 11=1397 (LC 1)

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

TOP CHORD

Tension 1-2=0/6, 2-4=-2370/405, 4-5=-2109/364,

5-6=-1834/349, 6-7=-1996/365,

7-9=-834/214. 9-10=-834/214.

10-11=-1392/288

BOT CHORD 2-16=-575/2002, 14-16=-502/2116, 12-14=-437/1772, 11-12=-106/115

5-16=-37/568, 4-16=-201/215,

WEBS 6-16=-498/214, 6-14=-242/142,

7-14=-19/449, 7-12=-1243/295,

9-12=-362/174, 10-12=-314/1563

NOTES

1) Unbalanced roof live loads have been considered for

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 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 31-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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) 11 and 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



July 5,2024



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

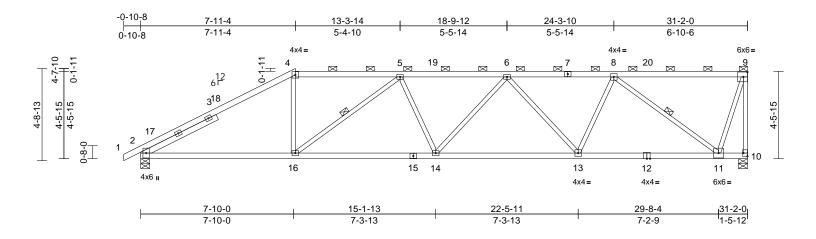


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	A16	Half Hip	1	1	Job Reference (optional

| Job Reference (option c. Wed Jd 08 1 Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I

LEE'S SUMMIT. MISSOURI VrCDoi7J4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660842



Scale = 1:59.2

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

		ı										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	-0.15	14-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.31	13-14	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.11	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 139 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 *Except* 1-4:2x4 SP 1650F

1.5E

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-1 oc purlins, except end verticals, and

2-0-0 oc purlins (3-3-12 max.): 4-9 **BOT CHORD** Rigid ceiling directly applied or 7-7-10 oc

bracing

WEBS 1 Row at midpt

5-16, 8-11 REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=188 (LC 9)

Max Uplift 2=-183 (LC 9), 10=-300 (LC 9)

Max Grav 2=1460 (LC 1), 10=1397 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension 1-2=0/6, 2-4=-2359/368, 4-5=-1971/369,

5-6=-2577/488. 6-8=-2084/415.

8-9=-412/133, 9-10=-1400/256 **BOT CHORD**

2-16=-437/1984, 14-16=-591/2564 13-14=-582/2483, 11-13=-446/1818,

10-11=-78/91

WEBS 4-16=-63/682, 5-16=-868/267, 5-14=0/154,

6-14=0/188, 6-13=-607/178, 8-13=-49/666,

8-11=-1784/437, 9-11=-173/1257

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(2R) 7-11-4 to 15-0-2, Interior (1) 15-0-2 to 31-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 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) 10 and 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



July 5,2024



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

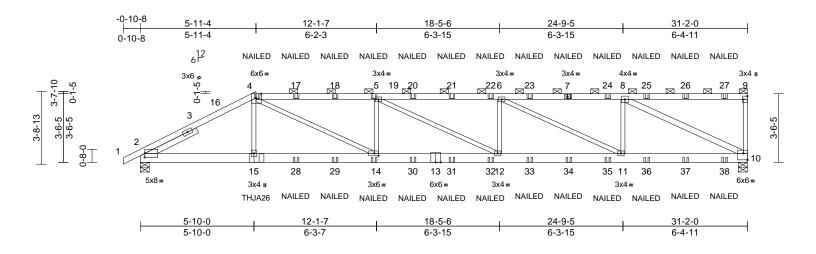
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187	
P240941-01	A17	Half Hip Girder	1	2	Job Reference (optional	

LEE'S SUMMIT. MISSOURI Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, II c. Wed July 10 10 11 ID:jj0LoVVKzS9AIHBPtbTwlbzZ4Os-RfC?PsB70Hq3NSgPqnL8w3uITXbGKV /rCDoi7J4zJ0

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660843



Scale = 1:59.1

Plate Offsets (X, Y): [2:0-0-1,0-2-8], [4:0-3-5,Edge], [9:Edge,0-2-8], [10:Edge,0-4-0], [14:0-2-8,0-1-8]

-		I										
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	0.24	12-14	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.41	12-14	>911	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.08	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 294 lb	FT = 20%

LUMBER

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

No.2

BOT CHORD 2x6 SPF No.2

2x3 SPF No.2 *Except* 8-10:2x4 SP No.2 WFBS

SLIDER Left 2x4 SP No.2 -- 2-11-4

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-13 oc purlins, except end verticals, and

2-0-0 oc purlins (4-9-13 max.): 4-9. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-5-8, 10=0-5-8

Max Horiz 2=143 (LC 9)

Max Uplift 2=-783 (LC 12), 10=-906 (LC 9) Max Grav 2=2714 (LC 1), 10=2728 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/11, 2-4=-4899/1532, 4-5=-6650/2194,

5-6=-6649/2189. 6-8=-4547/1517.

8-9=-86/92, 9-10=-357/213

BOT CHORD 2-15=-1448/4222, 14-15=-1447/4206

12-14=-2248/6646. 11-12=-2242/6649. 10-11=-1538/4547

WEBS 4-15=-18/546, 4-14=-970/2817,

8-10=-5021/1658, 5-14=-1016/592,

5-12=-24/68, 6-12=0/464, 6-11=-2348/786,

8-11=-172/1307

NOTES

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

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

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00: Cat. II: Exp C: Enclosed: MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 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 31-0-12 zone: cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 2. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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 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: 1-4=-70, 4-9=-70, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-131 (B), 7=-131 (B), 15=-420 (B), 14=-39 (B), 5=-131 (B), 17=-131 (B), 18=-131 (B), 20=-131 (B), 21=-131 (B), 22=-131 (B), 23=-131 (B), 24=-131 (B), 25=-131 (B), 26=-131 (B), 27=-131 (B), 28=-39 (B), 29=-39 (B), 30=-39 (B), 31=-39 (B), 32=-39 (B), 33=-39 (B), 34=-39 (B), 35=-39 (B), 36=-39 (B), 37=-39 (B), 38=-39 (B)







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



Qty Ply Job Truss Truss Type Roof - HT Lot 187 P240941-01 A11 Hip 1

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

DEVELOPMENT SERVICES 166660844 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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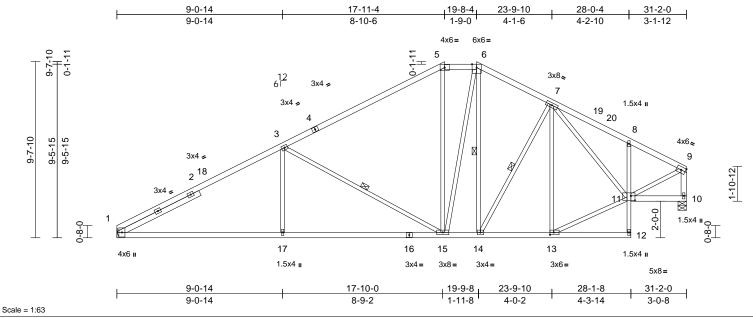


Plate Offsets (X, Y): [1:0-3-9,0-1-5], [11:0-2-12,0-3-0], [13:0-2-8,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.16	1-17	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.36	1-17	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.07	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 169 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E *Except* 5-6,6-9:2x4 SP

No.2

BOT CHORD 2x4 SP No.2 *Except* 12-8:2x3 SPF No.2 2x3 SPF No.2 *Except* 10-9:2x4 SP No.2 WFBS

OTHERS 2x4 SP No.2 **SLIDER** Left 2x4 SP No.2 -- 5-0-7

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-0 max.): 5-6.

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

bracing, Except: 2-2-0 oc bracing: 1-17

8-11-2 oc bracing: 15-17. WEBS 1 Row at midpt 6-14, 7-14, 3-15

1= Mechanical, 10=0-5-8 REACTIONS (size)

Max Horiz 1=230 (LC 12)

Max Uplift 1=-224 (LC 12), 10=-173 (LC 13)

Max Grav 1=1396 (LC 1), 10=1396 (LC 1) FORCES (lb) - Maximum Compression/Maximum

Tension TOP CHORD

1-3=-2325/362, 3-5=-1465/328,

5-6=-1175/338, 6-7=-1281/341,

7-8=-1408/329, 8-9=-1393/248,

9-10=-1348/250

BOT CHORD 1-17=-425/1959, 15-17=-425/1959,

14-15=-154/1095, 13-14=-172/1086 12-13=-4/24, 11-12=0/70, 8-11=-250/160,

10-11=-31/51

WEBS 5-15=-16/280, 6-14=-121/93

9-11=-227/1338, 7-14=-109/158, 7-11=-108/216. 7-13=-408/140.

11-13=-186/1176, 3-17=0/391,

3-15=-909/340, 6-15=-153/532

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) 0-0-0 to 5-0-0, Interior (1) 5-0-0 to 17-11-4, Exterior(2E) 17-11-4 to 19-8-4, Exterior(2R) 19-8-4 to 26-9-2, Interior (1) 26-9-2 to 31-0-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 10 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 224 lb uplift at
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



July 5,2024



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

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



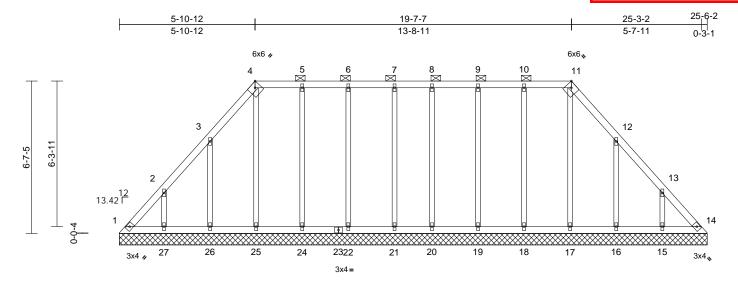
Qty Ply Job Truss Truss Type Roof - HT Lot 187 P240941-01 LG4 Lay-In Gable 1 Job Reference (optional

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

ID:A_1z62l2fOOqNSR0492gOWz?odd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660845 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION



Scale = 1:50

Plate 0	Offsets	(X, \	/):	[4:0-2-10,Edge],	[11:0-2-10,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	0.06	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	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 132 lb	FT = 20%

25-6-2

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.): 4-11. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=25-6-2, 14=25-6-2, 15=25-6-2, 16=25-6-2, 17=25-6-2, 18=25-6-2, 19=25-6-2, 20=25-6-2, 21=25-6-2,

22=25-6-2, 24=25-6-2, 25=25-6-2, 26=25-6-2, 27=25-6-2

Max Horiz 1=-181 (LC 8)

Max Uplift 1=-85 (LC 10), 14=-33 (LC 11),

15=-150 (LC 13), 16=-155 (LC 13), 18=-46 (LC 9), 19=-40 (LC 8), 20=-35 (LC 9), 21=-35 (LC 9), 22=-40 (LC 8), 24=-43 (LC 8), 25=-30 (LC 9), 26=-156 (LC 12),

27=-149 (LC 12)

Max Grav 1=155 (LC 21), 14=130 (LC 22), 15=212 (LC 20), 16=220 (LC 20), 17=144 (LC 26), 18=190 (LC 25), 19=182 (LC 1), 20=160 (LC 26),

21=160 (LC 25), 22=182 (LC 1), 24=190 (LC 26), 25=164 (LC 22), 26=221 (LC 19), 27=212 (LC 19)

FORCES TOP CHORD (lb) - Maximum Compression/Maximum

Tension

1-2=-223/174, 2-3=-148/121, 3-4=-146/159, 4-5=-121/127, 5-6=-121/127, 6-7=-121/127,

7-8=-121/127, 8-9=-121/127, 9-10=-121/127, 10-11=-121/127, 11-12=-146/133, 12-13=-96/51, 13-14=-178/107

BOT CHORD 1-27=-86/148, 26-27=-87/148,

25-26=-87/149, 24-25=-87/148, 22-24=-87/148, 21-22=-87/148, 20-21=-87/148, 19-20=-87/148, 18-19=-87/148, 17-18=-87/148, 16-17=-87/148, 15-16=-87/148,

14-15=-86/148

WEBS 2-27=-184/167, 3-26=-196/182,

4-25=-124/54, 5-24=-151/66, 6-22=-141/65, 7-21=-125/56. 8-20=-125/56. 9-19=-141/65. 10-18=-151/69. 11-17=-104/5

12-16=-196/181, 13-15=-184/167

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) 0-3-15 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 19-7-10, Exterior(2E) 19-7-10 to 25-2-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing. 6)
- Gable studs spaced at 0-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

10) N/A

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



July 5,2024



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 187 P240941-01 LG9 Lay-In Gable 1 1 Job Reference (optional

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

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I ID:eBbLKOmgQiXh_c0CesZvxkz?odc-RfC?PsB70Hq3NSgPqnL8w3uITXbGitWrCDoi7

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660846 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

c. Wed Jd 0

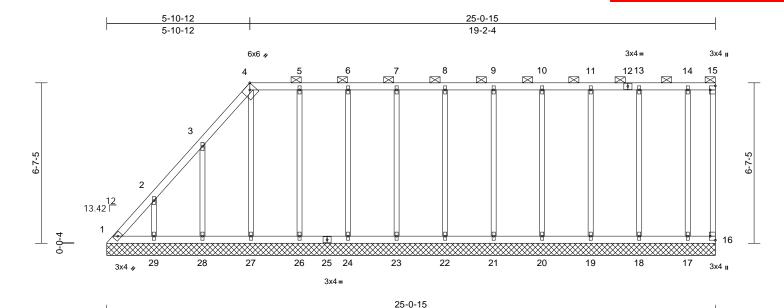


Plate Offsets (X, Y): [4:0-2-10,Edge], [15:Edge,0-2-8], [16:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.22	Horiz(TL)	0.00	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 137 lb	FT = 20%

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

TOP CHORD Structural wood sheathing directly applied or

Scale = 1:47.5

6-0-0 oc purlins. except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-15. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS (size)

1=25-0-15, 16=25-0-15, 17=25-0-15, 18=25-0-15, 19=25-0-15, 20=25-0-15, 21=25-0-15, 22=25-0-15, 23=25-0-15, 24=25-0-15, 26=25-0-15. 27=25-0-15. 28=25-0-15, 29=25-0-15 Max Horiz 1=269 (LC 9) Max Uplift 1=-104 (LC 10), 16=-16 (LC 9), 17=-46 (LC 8), 18=-48 (LC 9), 19=-42 (LC 8), 20=-40 (LC 9), 21=-39 (LC 8), 22=-39 (LC 9), 23=-40 (LC 9), 24=-40 (LC 8), 26=-47 (LC 9), 27=-105 (LC 9) 28=-157 (LC 12), 29=-148 (LC 12) 1=216 (LC 9), 16=29 (LC 1), 17=147 (LC 1), 18=188 (LC 1), 19=179 (LC 1), 20=180 (LC 1), 21=180 (LC 1), 22=180 (LC 1), 23=180 (LC 1), 24=178 (LC 1), 26=190 (LC 1), 27=173 (LC 19), 28=221 (LC 19), 29=211 (LC 19)

(lb) - Maximum Compression/Maximum

TOP CHORD 1-2=-438/433, 2-3=-326/330, 3-4=-194/208, 4-5=-127/138, 5-6=-128/139, 6-7=-128/139,

7-8=-128/139, 8-9=-128/139, 9-10=-128/139, 10-11=-128/139, 11-13=-128/139, 13-14=-128/139, 14-15=-128/139,

15-16=-101/99

BOT CHORD 1-29=-127/139, 28-29=-128/139, 27-28=-128/139, 26-27=-128/139, 24-26=-128/139, 23-24=-128/139,

22-23=-128/139. 21-22=-128/139. 20-21=-128/139, 19-20=-128/139, 18-19=-128/139, 17-18=-128/139, 16-17=-128/139

WFBS 2-29=-185/166, 3-28=-202/182, 4-27=-238/179. 5-26=-150/71. 6-24=-138/64. 7-23=-140/64, 8-22=-140/63, 9-21=-140/63 10-20=-140/63, 11-19=-139/64,

13-18=-146/67, 14-17=-149/96

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) 0-3-15 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 24-11-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated. 4) 5)
- Gable requires continuous bottom chord bearing. 6) Gable studs spaced at 0-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) N/A
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) 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



July 5,2024



FORCES

M 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 Qtv Ply Roof - HT Lot 187 P240941-01 В1 Hip Girder 2 1 Job Reference (optional

5-10-0

5-10-0

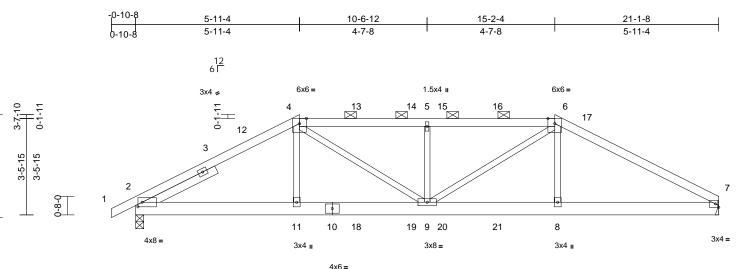
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660847 LEE'S SUMMIT. MISSOURI

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

Jul 05 10 27 3 Run: 8.63 E Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries, Inc. Fr ID:nLubOpU3SrvS3z21IARSfAzZ4Ou-T4szk97kwb4MK?HfqTC1aiMewVWP,UCyjO_u4O

15-3-8

4-8-12



Scale = 1:41.7

3-8-13

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

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	0.68	Vert(LL)	0.07	9-11	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.12	9-11	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.18	Horz(CT)	0.03	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 186 lb	FT = 20%

10-6-12

4-8-12

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 2-11-4

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-7-14 oc purlins, except

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

bracing.

REACTIONS (lb/size) 2=1915/0-3-8, 7=1833/ Mechanical

Max Horiz 2=66 (LC 16)

Max Uplift 2=-566 (LC 12), 7=-537 (LC 13)

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

(lb) or less except when shown.

TOP CHORD 2-3=-3347/1103, 3-12=-3251/1103 4-12=-3211/1119, 4-13=-3649/1307

> 13-14=-3651/1308, 5-14=-3655/1309, 5-15=-3655/1309, 15-16=-3651/1308,

6-16=-3649/1307, 6-17=-3278/1149,

7-17=-3445/1133

BOT CHORD 2-11=-898/2859, 10-11=-896/2842,

10-18=-896/2842, 18-19=-896/2842, 9-19=-896/2842, 9-20=-923/2925,

20-21=-923/2925, 8-21=-923/2925, 7-8=-925/2944

WEBS 4-11=-57/519, 6-8=-73/588, 4-9=-387/1069,

6-9=-358/974, 5-9=-874/513

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.

- 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.
- 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 15-2-4. Exterior(2E) 15-2-4 to 21-0-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding. This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 537 lb uplift at joint 7 and 566 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) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 155 lb down and 136 lb up at 5-11-4, 131 lb down and 136 lb up at 8-0-0, 131 lb down and 136 lb up at 10-0-0, 131 lb down and 136 lb up at 11-1-8, and 131 lb down and 136 lb up at 13-1-8, and 155 lb down and 136 lb up at 15-2-4 on top chord, and 426 lb down and 137 lb up at 5-11-4, 77 lb down at 8-0-0, 77 lb down at 10-0-0, 77 lb down at 11-1-8, and 77 lb down at 13-1-8, and 426 lb down and 137 lb up at 15-1-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

21-1-8

5-10-0

LOAD CASE(S) Standard

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

Vert: 1-4=-70, 4-6=-70, 6-7=-70, 2-7=-20

Concentrated Loads (lb)

Vert: 4=-131 (F), 6=-131 (F), 11=-426 (F), 8=-426 (F), 13=-131 (F), 14=-131 (F), 15=-131 (F), 16=-131 (F), 18=-39 (F), 19=-39 (F), 20=-39 (F), 21=-39 (F)



July 5,2024



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 187
P240941-01	LG8	Lay-In Gable	1	1	Job Reference (optional)

c. Wed Ju 081 Run: 8 91 S 8 63 Jun 17 2024 Print: 8 630 S Jun 17 2024 MiTek Industries ID:eBbLKOmgQiXh_c0CesZvxkz?odc-RfC?PsB70Hq3NSgPqnL8w3uITXbGl WrCDoi7.

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660848 LEE'S SUMMIT. MISSOURI

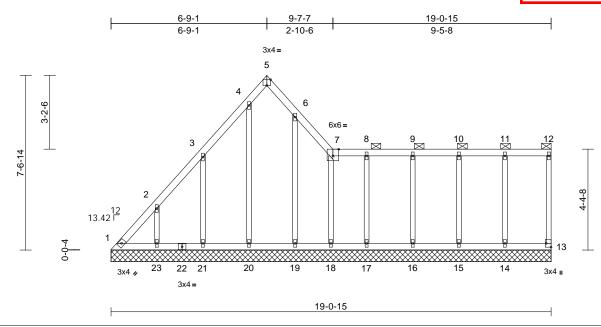


Plate Offsets (X, Y): [5:Edge,0-3-0], [7:0-3-0,Edge], [13:Edge,0-2-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	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	0.22	Horiz(TL)	0.00	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 96 lb	FT = 20%

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

OTHERS **BRACING**

TOP CHORD

Scale = 1:50

Structural wood sheathing directly applied or 6-0-0 oc purlins. except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-12.

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

REACTIONS (size) 1=19-0-15, 13=19-0-15, 14=19-0-15, 15=19-0-15,

16=19-0-15, 17=19-0-15, 18=19-0-15, 19=19-0-15, 20=19-0-15, 21=19-0-15, 23=19-0-15

Max Horiz 1=265 (LC 9)

Max Uplift 1=-149 (LC 10), 13=-20 (LC 9), 14=-47 (LC 13), 15=-41 (LC 9), 16=-42 (LC 13), 17=-40 (LC 9)

18=-105 (LC 8), 19=-25 (LC 13), 20=-133 (LC 11), 21=-188 (LC 12),

23=-143 (LC 12)

Max Grav 1=233 (LC 9), 13=71 (LC 1), 14=191 (LC 26), 15=178 (LC 1),

16=184 (LC 26), 17=163 (LC 1), 18=183 (LC 20), 19=172 (LC 1), 20=268 (LC 19), 21=200 (LC 19),

23=218 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-315/314, 2-3=-254/207, 3-4=-235/277,

4-5=-113/120, 5-6=-162/190, 6-7=-194/247, 7-8=-81/107, 8-9=-81/108, 9-10=-81/108, 10-11=-81/108, 11-12=-81/108, 12-13=-59/45 BOT CHORD 1-23=-92/123, 21-23=-92/123,

20-21=-93/123, 19-20=-93/123, 18-19=-93/123, 17-18=-87/118, 16-17=-87/118, 15-16=-87/118, 14-15=-87/118, 13-14=-87/118

WEBS 2-23=-191/160, 3-21=-253/238, 4-20=-227/174, 6-19=-159/76, 11-14=-149/83, 10-15=-139/64,

9-16=-143/67, 8-17=-127/62, 7-18=-238/255

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 Corner(3E) 0-3-15 to 5-3-15, Exterior(2N) 5-3-15 to 6-9-5, Corner(3E) 6-9-5 to 9-7-10, Exterior(2N) 9-7-10 to 18-11-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated. 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 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 149 lb uplift at joint 1, 20 lb uplift at joint 13, 143 lb uplift at joint 23, 188 Ib uplift at joint 21, 133 lb uplift at joint 20, 25 lb uplift at joint 19, 47 lb uplift at joint 14, 41 lb uplift at joint 15, 42 Ib uplift at joint 16, 40 lb uplift at joint 17 and 105 lb uplift at joint 18.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



July 5,2024





6)



Qty Job Truss Truss Type Ply Roof - HT Lot 187 P240941-01 LG₂ Lay-In Gable 1

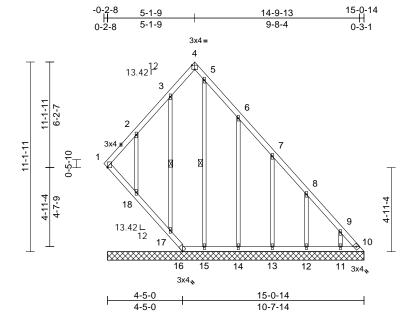
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

LEE'S SUMMIT, MISSOURI Job Reference (optional Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I

c. Wed Jd 0671 ID:Be2IS1JHIY8RNqzKxEBA5DzZ4P6-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoi7J42

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166660849



Scale = 1:67.7

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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horiz(TL)	0.01	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 91 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

BOT CHORD Rigid ceiling directly applied or 9-1-14 oc

bracing.

WEBS 1 Row at midnt 3-17, 5-15

1=15-0-14, 10=15-0-14, REACTIONS (size)

11=15-0-14, 12=15-0-14, 13=15-0-14, 14=15-0-14,

15=15-0-14, 16=15-0-14,

17=15-0-14, 18=15-0-14

Max Horiz 1=-322 (LC 13)

1=-14 (LC 11), 10=-140 (LC 11), Max Uplift

11=-128 (LC 13), 12=-152 (LC 13),

13=-144 (LC 13), 14=-179 (LC 13),

16=-419 (LC 13), 17=-71 (LC 12), 18=-212 (LC 12)

Max Grav 1=420 (LC 13), 10=376 (LC 13),

11=183 (LC 20), 12=217 (LC 20), 13=208 (LC 20), 14=227 (LC 20),

15=133 (LC 22), 16=182 (LC 11), 17=204 (LC 19), 18=229 (LC 19)

FORCES TOP CHORD (lb) - Maximum Compression/Maximum

Tension

1-2=-238/170, 2-3=-147/102, 3-4=-112/108,

4-5=-72/55, 5-6=-116/97, 6-7=-126/65,

7-8=-244/171, 8-9=-394/295, 9-10=-511/391 **BOT CHORD**

1-18=-420/540, 17-18=-416/544 16-17=-419/563, 15-16=-268/356

14-15=-268/356, 13-14=-268/356

12-13=-268/356, 11-12=-267/356,

10-11=-267/355

WEBS

2-18=-242/229, 3-17=-164/107, 5-15=-99/19, LOAD CASE(S) Standard

6-14=-229/204, 7-13=-197/168,

8-12=-207/178, 9-11=-169/144

NOTES

- Unbalanced roof live loads have been considered for 1)
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-4-11 to 5-4-1, Exterior(2R) 5-4-1 to 10-4-1, Interior (1) 10-4-1 to 14-11-11 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 0-0-0 oc.
- This truss has been designed for a 10.0 psf bottom
- chord live load nonconcurrent with any other live loads. All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 1, 419 lb uplift at joint 16, 212 lb uplift at joint 18 and 71
- lb uplift at joint 17. 10) N/A
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 1, 16, 18, 17.
- 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.



July 5,2024



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 187 P240941-01 LG5 Lay-In Gable 1

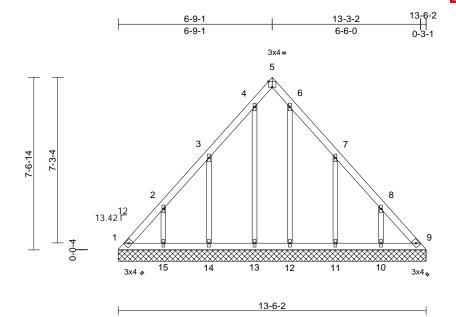
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

LEE'S SUMMIT. MISSOURI Job Reference (optional Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I

c. Wed Jd 06 1 ID:A_1z62l2fOOqNSR0492gOWz?odd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166660850



Scale = 1:50.6

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.01	9	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 68 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **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=13-6-2, 9=13-6-2, 10=13-6-2, 11=13-6-2, 12=13-6-2, 13=13-6-2,

14=13-6-2, 15=13-6-2

Max Horiz 1=-208 (LC 8)

Max Uplift 1=-84 (LC 10), 9=-65 (LC 11),

10=-147 (LC 13), 11=-168 (LC 13), 12=-29 (LC 13), 13=-43 (LC 12), 14=-166 (LC 12), 15=-147 (LC 12)

Max Grav 1=233 (LC 12), 9=221 (LC 13),

10=213 (LC 20), 11=223 (LC 20), 12=148 (LC 20), 13=164 (LC 19),

14=220 (LC 19), 15=214 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-331/244, 2-3=-194/128, 3-4=-108/63, 4-5=-64/61. 5-6=-64/61. 6-7=-87/40.

> 7-8=-178/128. 8-9=-315/244 1-15=-182/241, 14-15=-182/241,

BOT CHORD

13-14=-182/241, 12-13=-182/241, 11-12=-182/241, 10-11=-182/241,

9-10=-182/241

WEBS

2-15=-196/172, 3-14=-226/205, 4-13=-129/63, 8-10=-196/172

7-11=-226/205, 6-12=-113/49

NOTES

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) 0-3-15 to 5-3-15, Exterior(2N) 5-3-15 to 6-9-5, Corner(3R) 6-9-5 to 11-6-10, Exterior(2N) 11-6-10 to 13-2-11 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 84 lb uplift at joint 1, 65 lb uplift at joint 9, 147 lb uplift at joint 15, 166 lb uplift at joint 14, 43 lb uplift at joint 13, 147 lb uplift at joint 10, 168 lb uplift at joint 11 and 29 lb uplift at joint 12.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



July 5,2024



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



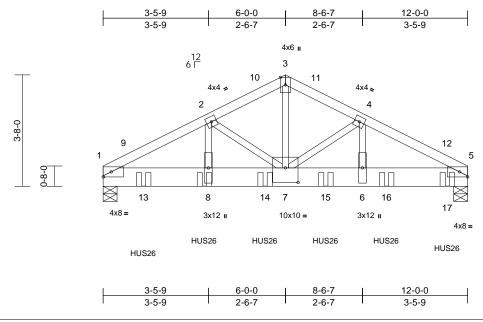
Job Truss Truss Type Qty Ply Roof - HT Lot 187 P240941-01 C3 Common Girder 2 1

DEVELOPMENT SERVICES 166660851 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, In c. Wed Jd 061 ID:QN5iK6QxdJG9yC93zdrHy7zZ4Oz-RfC?PsB70Hq3NSgPqnL8w3uITXbG<mark>r</mark>WrCDoi7



Scale = 1:37.9

Plate Offsets (X, Y): [7:0-5-0,0-5-12]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.05	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.02	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 116 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x8 SPF No.2 2x3 SPF No.2 WEBS

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-9-7 oc purlins.

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

bracing.

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

Max Horiz 1=60 (LC 33)

Max Uplift 1=-751 (LC 12), 5=-795 (LC 13)

Max Grav 1=4394 (LC 1), 5=4906 (LC 1) **FORCES**

Tension

(lb) - Maximum Compression/Maximum

TOP CHORD

1-2=-6251/1273, 2-3=-4775/1030, 3-4=-4775/1030, 4-5=-6215/1246

BOT CHORD 1-8=-1054/5323, 7-8=-1054/5323

6-7=-1006/5292 5-6=-1006/5292

2-8=-269/1725, 2-7=-1365/364,

3-7=-802/4006, 4-7=-1327/335, 4-6=-235/1683

NOTES

WFBS

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: 2x8 - 2 rows staggered at 0-3-0 oc.

- Web connected as follows: 2x3 1 row at 0-9-0 oc. All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been
- provided to distribute only loads noted as (F) or (B), unless otherwise indicated. 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(2E) 0-2-12 to 5-2-12, Interior (1) 5-2-12 to 6-0-0, Exterior(2R) 6-0-0 to 11-0-0, Interior (1) 11-0-0 to 11-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Two H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 1 and 5. This connection is for uplift only and does not consider lateral forces.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HUS26 (14-16d Girder, 4-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-0 from the left end to 11-4-0 to connect truss(es) to front face of bottom chord.
- 10) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-3=-70, 3-5=-70, 1-5=-20

Concentrated Loads (lb)

Vert: 8=-1376 (F), 13=-1376 (F), 14=-1376 (F), 15=-1376 (F), 16=-1376 (F), 17=-1382 (F)



July 5,2024



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



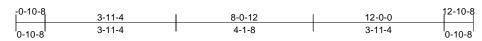
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187	
P240941-01	C1	Hip Girder	1	1	Job Reference (optional	

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Itc. Wed J ID:yBXJ7mPJs?8IL2atPvK2QvzZ4P_-RfC?PsB70Hq3NSgPqnL8w3uITXbGK

NAILED

WrCDoi7J4z

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660852 LEE'S SUMMIT. MISSOURI



NAILED

12 6 F 6x6 = 4x4 = 3 2-8-13 5 П 8 10 7 5x5 : 4x4 3x4 =3x4 II NAILED Special Special 3-10-0 12-0-0 8-2-0 3-10-0 4-4-0 3-10-0

NAILED

Scale = 1:34.6

Plate Offsets (X, Y): [2:Edge,0-2-5], [5:Edge,0-1-9]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.02	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	-0.05	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.11	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 51 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-10-0 oc purlins, except

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

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

bracing.

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

Max Horiz 2=44 (LC 12)

Max Uplift 2=-255 (LC 12), 5=-255 (LC 13)

Max Grav 2=915 (LC 1), 5=915 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=0/11, 2-3=-1398/513, 3-4=-1131/489,

TOP CHORD 4-5=-1395/509, 5-6=0/11 BOT CHORD

2-8=-354/1148, 7-8=-353/1133,

5-7=-355/1145

WEBS 3-8=-18/328, 3-7=-55/51, 4-7=-19/328

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) 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 255 lb uplift at joint 2 and 255 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.
- "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 221 lb down and 65 lb up at 3-11-4, and 221 lb down and 65 lb up at 8-0-0 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: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20

Concentrated Loads (lb)

Vert: 3=-59 (B), 4=-59 (B), 8=-221 (B), 7=-221 (B),

9=-59 (B), 10=-19 (B)



July 5,2024



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

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



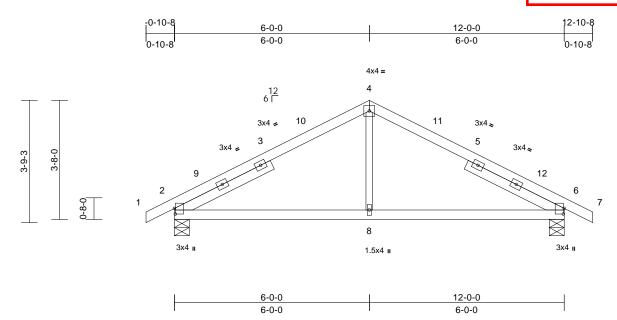
Job Truss Truss Type Qty Roof - HT Lot 187 P240941-01 C2 Common 2 1

DEVELOPMENT SERVICES 166660853 LEE'S SUMMIT. MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

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

ID:n3N9p?HPSdlsWMEmG5eTTbzZ4P9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDc



Scale = 1:35.5

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

Looding	(nof)	Cassina	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
Loading	(psf)	Spacing	2-0-0	CSI		DELL	in	(100)	i/deli	L/u	PLAIES	GKIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.03	2-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	-0.06	2-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 53 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 3-3-13, Right 2x4 SP **SLIDER**

No.2 -- 3-3-13

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=65 (LC 16)

Max Uplift 2=-104 (LC 12), 6=-104 (LC 13)

Max Grav 2=601 (LC 1), 6=601 (LC 1) (lb) - Maximum Compression/Maximum

Tension TOP CHORD 1-2=0/6, 2-4=-718/286, 4-6=-718/286,

6-7=0/6

2-8=-127/535, 6-8=-127/535 BOT CHORD

WEBS 4-8=0/276

NOTES

FORCES

- 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 6-0-0, Exterior(2R) 6-0-0 to 11-0-0, Interior (1) 11-0-0 to 12-10-8 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 2 and 104 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



July 5,2024



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

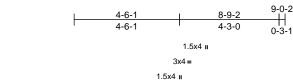
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

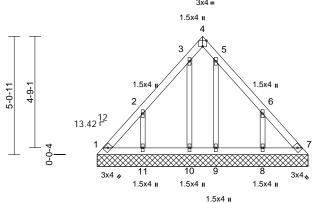


Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	LG1	Lay-In Gable	1	1	Job Reference (optional

LEE'S SUMMIT, MISSOURI Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Irc. Wed July 10 11 ID:FGwX1LI1Dwtj8Wpypp9i0ozZ4P8-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J4z

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660854





Scale = 1:49.2

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

											_	
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	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	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 41 lb	FT = 20%

9-0-2

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.

Max Grav

REACTIONS (size) 1=9-0-2, 7=9-0-2, 8=9-0-2, 9=9-0-2, 10=9-0-2, 11=9-0-2

Max Horiz 1=-135 (LC 8)

Max Uplift 1=-42 (LC 10), 7=-27 (LC 11),

8=-164 (LC 13), 9=-42 (LC 13),

10=-52 (LC 12), 11=-163 (LC 12)

1=133 (LC 12), 7=123 (LC 13), 8=226 (LC 20), 9=138 (LC 20).

10=150 (LC 19), 11=224 (LC 19)

(lb) - Maximum Compression/Maximum

FORCES

TOP CHORD 1-2=-195/151, 2-3=-92/63, 3-4=-49/42,

4-5=-49/42, 5-6=-76/47, 6-7=-182/151

BOT CHORD 1-11=-118/149, 10-11=-119/149, 9-10=-119/149, 8-9=-119/149, 7-8=-118/149

WEBS 2-11=-227/182, 3-10=-122/72, 5-9=-109/61,

6-8=-227/183

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

LOAD CASE(S) Standard



July 5,2024



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 187
P240941-01	CG1	Diagonal Hip Girder	3	1	Job Reference (optional)

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. ID:bDkQ42LA1TW0EHivcMktjszZ4P3-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

DEVELOPMENT SERVICES 166660855 LEE'S SUMMIT, MISSOURI c. Wed J 0671 WrCDoi7J4z

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

|-1-2-14 8-3-4 1-2-14 8-3-4 NAILED 12 4.24 F NAILED 1.5x4 II NAILED NAILED 7 8 3x4 = 3x4 = 3 3-8-1 9 10 3x6 II 1.5x4 II NAILED NAILED NAILED NAILED 8-3-4

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	0.96	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=-143 (LC 12) Max Grav 2=488 (LC 1), 5=416 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/5, 2-4=-210/112, 4-5=-320/343

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 143 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=-60 (F=-34, B=-26), 9=-3 (F), 10=-19 (F=-10,

B = -10)



July 5,2024



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 187
P240941-01	CG6	Diagonal Hip Girder	2	1	Job Reference (optional)

LEE'S SUMMIT. MISSOURI c. Wed J 0671 Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. ID:U_zxwQOg5h0Sjv?hrCpptizZ4P?-RfC?PsB70Hq3NSgPqnL8w3uITXbGK /rCDoi7J4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660856

-1-2-14 4-1-10 8-3-4 1-2-14 4-1-10 4-1-10 NAILED 4.24 F NAII FD 1.5x4 _{II} NAII FD 5 NAILED 910 3-8-1 3 6 11 7 12 3x4 II 1.5x4 II 3x4 = NAILED NAILED NAILED NAILED 4-1-10 8-3-4

Scale = 1:39.6

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

						l						
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.01	6-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.03	6-7	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.28	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 38 lb	FT = 20%

4-1-10

4-1-10

LUMBER

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

SLIDER Left 2x4 SP No.2 -- 2-1-15

BRACING

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

BOT CHORD Rigid ceiling directly applied or 9-2-5 oc

bracing.

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

Max Horiz 2=158 (LC 9)

Max Uplift 2=-152 (LC 8), 6=-141 (LC 12) Max Grav 2=484 (LC 1), 6=410 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/5, 2-4=-633/287, 4-5=-129/91,

5-6=-134/141

BOT CHORD 2-7=-409/522, 6-7=-409/522 4-7=0/230, 4-6=-574/405

WEBS 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 141 lb uplift at joint 6 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.
- "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: 1-5=-70, 2-6=-20

Concentrated Loads (lb)

Vert: 9=-53 (F=-26, B=-26), 12=-19 (F=-10, B=-10)



July 5,2024



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

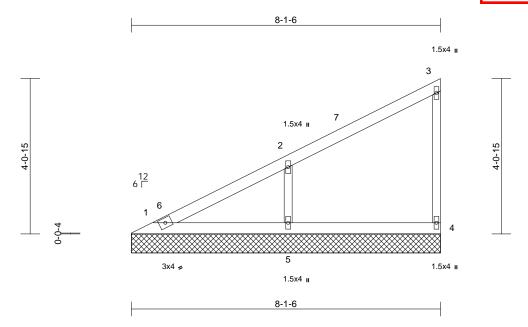


Job Truss Truss Type Qty Ply Roof - HT Lot 187 P240941-01 V7 Valley 1 Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660857 LEE'S SUMMIT, MISSOURI

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

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, li c. Wed Jd 0 ID:WvrSZ3Ci3AEazJa1u1rozRz?om4-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7J



Sca	le =	= 1	:3	U.	

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)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 29 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 1=8-1-6, 4=8-1-6, 5=8-1-6

Max Horiz 1=165 (LC 9)

Max Uplift 4=-31 (LC 9), 5=-142 (LC 12)

1=123 (LC 20), 4=135 (LC 1), Max Grav

5=418 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-295/176, 2-3=-129/99, 3-4=-109/135

BOT CHORD 1-5=-77/83. 4-5=-77/83

2-5=-325/333 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 8-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 31 lb uplift at joint 4 and 142 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



July 5,2024



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

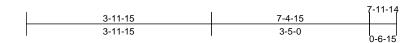


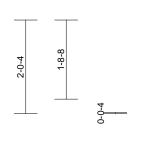
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187	
P240941-01	V3	Valley	1	1	Job Reference (optional	

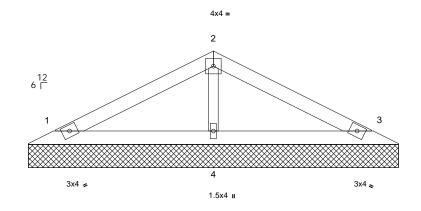
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LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660858







7-11-14

Scale = 1:24.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=7-11-14, 3=7-11-14, 4=7-11-14

Max Horiz 1=-32 (LC 17)

Max Uplift 1=-42 (LC 12), 3=-48 (LC 13),

4=-10 (LC 12)

1=160 (LC 1), 3=160 (LC 1), 4=293 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-77/58, 2-3=-77/65 **BOT CHORD** 1-4=-1/35, 3-4=-1/35

2-4=-208/166 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 42 lb uplift at joint 1, 48 lb uplift at joint 3 and 10 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



July 5,2024



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



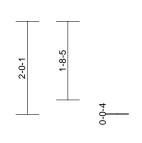
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	V5	Valley	1	1	Job Reference (optional

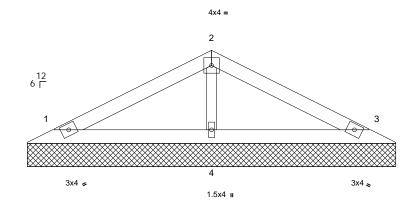
Run: 8 91 S 8 63 Jun 17 2024 Print: 8 630 S Jun 17 2024 MiTek Industries ID:bDkQ42LA1TW0EHivcMktjszZ4P3-RfC?PsB70Hq3NSgPqnL8w3ulTXbGł AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660859 LEE'S SUMMIT. MISSOURI

RELEASE FOR CONSTRUCTION

c. Wed Jd 06 1 WrCDoi7J4z

		7-11-4
3-11-10	7-4-5	
3-11-10	3-4-11	
	•	0-6-15





7-11-4

Scale = 1:24.8

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.12	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 24 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

6-0-0 oc purlins.

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

bracing.

REACTIONS (size) 1=7-11-4, 3=7-11-4, 4=7-11-4

Max Horiz 1=-32 (LC 13)

Max Uplift 1=-41 (LC 12), 3=-47 (LC 13),

4=-10 (LC 12)

1=159 (LC 1), 3=159 (LC 1), 4=291 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-76/57, 2-3=-76/65 **BOT CHORD** 1-4=-1/34, 3-4=-1/34

2-4=-206/165 WEBS

NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 1, 47 lb uplift at joint 3 and 10 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



July 5,2024



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 187	
P240941-01	E2	Common	2	1	Job Reference (optional	

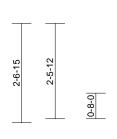
Run: 8 91 S 8 63 Jun 17 2024 Print: 8 630 S Jun 17 2024 MiTek Industries

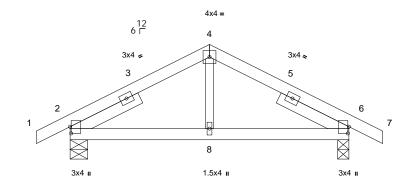
AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660860 LEE'S SUMMIT, MISSOURI c. Wed Ju 08 11: WrCDoi7J4zJe?

RELEASE FOR CONSTRUCTION

ID:bDkQ42LA1TW0EHivcMktjszZ4P3-RfC?PsB70Hq3NSgPqnL8w3uITXbGk WrCDoi7J4z

-0-10-8	3-7-8	7-3-0	8-1-8
0-10-8	3-7-8	3-7-8	0-10-8





0.7.0	700
3-7-8	7-3-0
3-7-8	3-7-8

Scale = 1:30

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	0.26	Vert(LL)	-0.01	2-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.01	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: 34 lb	FT = 20%

LUMBER

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

Left 2x4 SP No.2 -- 1-11-14, Right 2x4 SP SLIDER

No.2 -- 1-11-14

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=0-3-8

Max Horiz 2=42 (LC 12)

Max Uplift 2=-71 (LC 12), 6=-71 (LC 13)

Max Grav 2=387 (LC 1), 6=387 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=0/6, 2-4=-397/180, 4-6=-397/196, 6-7=0/6

BOT CHORD 2-8=-68/275, 6-8=-68/275

WEBS 4-8=0/178

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 71 lb uplift at joint 2 and 71 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



July 5,2024



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 187
P240941-01	E1	Hip Girder	1	1	Job Reference (optional)

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I ID:nLubOpU3SrvS3z21IARSfAzZ4Ou-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

DEVELOPMENT SERVICES 166660861 LEE'S SUMMIT. MISSOURI c. Wed Jd 06711 WrCDoi7J4

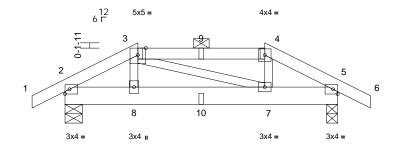
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

-0-10-8 1-11-4 5-3-12 7-3-0 8-1-8 0-10-8 1-11-4 3-4-8 1-11-4 0-10-8

NAILED

NAILED

NAILED



;	Special	NAILED	Special		
1-10-0		5-5-0		7-3-0	
1-10-0		3-7-0		1-10-0	

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	0.29	Vert(LL)	0.01	7-8	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.01	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 32 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.): 3-4.

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

bracing

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

Max Horiz 2=25 (LC 16)

Max Uplift 2=-138 (LC 12), 5=-135 (LC 13)

Max Grav 2=452 (LC 1), 5=443 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/11, 2-3=-521/245, 3-4=-388/230, 4-5=-521/239, 5-6=0/11

BOT CHORD 2-8=-134/389, 7-8=-134/379, 5-7=-137/397

WFBS 3-8=-2/133, 3-7=-11/17, 4-7=0/127

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
- 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.

- 6) One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 2 and 5. This connection is for uplift only and does not consider lateral forces.
- 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 Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 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 5-3-0 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: 1-3=-70, 3-4=-70, 4-6=-70, 2-5=-20

Concentrated Loads (lb)

Vert: 8=-63 (F), 7=-63 (F)



July 5,2024



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



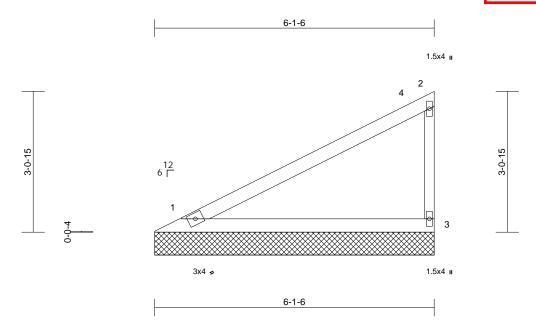
Job Truss Truss Type Qty Ply Roof - HT Lot 187 P240941-01 V8 Valley 1

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

DEVELOPMENT SERVICES 166660862 LEE'S SUMMIT, MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, In c. Wed Ju 08 1 ID:WvrSZ3Ci3AEazJa1u1rozRz?om4-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7J4z



Scale = 1:25.2

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	0.69	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.37	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: 20 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 6-0-0 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=121 (LC 9)

Max Uplift 1=-38 (LC 12), 3=-68 (LC 12) Max Grav 1=244 (LC 1), 3=244 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-167/114, 2-3=-190/236

BOT CHORD 1-3=-56/61

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) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 6-0-10 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 38 lb uplift at joint 1 and 68 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



July 5,2024



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

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



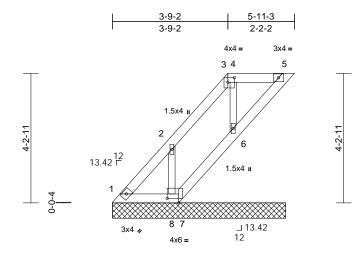
Job Truss Truss Type Qty Roof - HT Lot 187 P240941-01 LG7 Lay-In Gable 1

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

DEVELOPMENT SERVICES 166660863 LEE'S SUMMIT, MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

c. Wed Jd 0 Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I ID:m1HPoH664h6i2XIDKRpD3CzZ3m3-RfC?PsB70Hq3NSgPqnL8w3uITXb0 KWrCDoi J



Scale = 1:37.5

2-1-14	5-11-3
2-1-14	3-9-5

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	ВС	0.04	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.05	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

5-11-7 oc purlins, except

2-0-0 oc purlins: 3-5.

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

bracing, Except:

10-0-0 oc bracing: 6-7. REACTIONS (size)

1=5-7-12, 5=5-7-12, 6=5-7-12, 7=5-7-12, 8=5-7-12

Max Horiz 1=172 (LC 12)

Max Uplift 1=-5 (LC 10), 5=-46 (LC 12), 6=-18

(LC 9), 7=-33 (LC 10), 8=-156 (LC

1=103 (LC 12), 5=71 (LC 1), 6=164 Max Grav (LC 1), 7=40 (LC 12), 8=232 (LC

FORCES (lb) - Maximum Compression/Maximum Tension

1-2=-161/156, 2-3=-67/20, 3-4=-39/40,

4-5=-38/40 **BOT CHORD** 1-8=-40/39, 7-8=-40/39, 6-7=-66/76,

5-6=-69/64

WEBS 4-6=-120/56, 2-8=-240/188

NOTES

TOP CHORD

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 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.
- 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 46 lb uplift at joint 5 and 18 lb uplift at joint 6.
- 9) N/A
- 10) Non Standard bearing condition. Review required.
- 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



July 5,2024



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



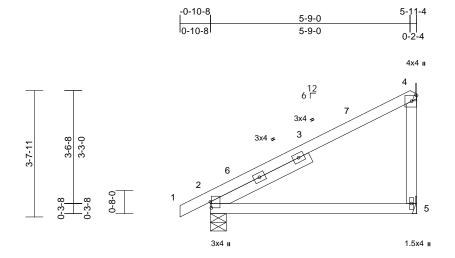
Job Truss Truss Type Qty Ply Roof - HT Lot 187 P240941-01 D2 Common 2 1

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

DEVELOPMENT SERVICES 166660864 LEE'S SUMMIT, MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I c. Wed Jd 08 1 ID:f8FOvkll4CAiB7ow_dxISDzZ4WI-RfC?PsB70Hq3NSgPqnL8w3uITXbGKW rCDoi7J4zJC



Scale = 1:33.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
Loaumy	(psi)	Spacing	2-0-0	COI		DEFL	1111	(IUC)	i/ueii	L/U	FLAILS	GKIF
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.07	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.43	Vert(CT)	-0.13	2-5	>515	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: 29 lb	FT = 20%

5-11-4

LUMBER

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

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

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

Mechanical Max Horiz 2=146 (LC 9)

Max Uplift 2=-60 (LC 12), 4=-110 (LC 12)

Max Grav 2=327 (LC 1), 4=198 (LC 1), 5=116

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-192/131, 4-5=0/0

BOT CHORD 2-5=-67/73

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 5-9-8 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
- 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 4 and 60 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



July 5,2024



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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



Qty Ply Job Truss Truss Type Roof - HT Lot 187 P240941-01 D1 Half Hip Girder 1

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

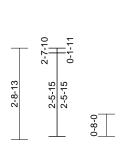
DEVELOPMENT SERVICES 166660865 LEE'S SUMMIT, MISSOURI Job Reference (optional Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I c. Wed Ju 08 11 /rCDoi7J4

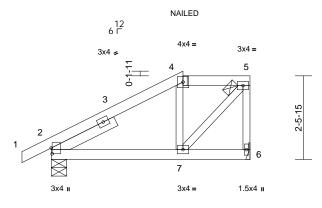
RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

-0-10-8

ID:U_zxwQOg5h0Sjv?hrCpptizZ4P?-RfC?PsB70Hq3NSgPqnL8w3uITXbGK







Эр	eciai
3-10-0	5-11-4
3-10-0	2-1-4

Scale = 1:34.4

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

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	0.36	Vert(LL)	-0.01	2-7	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.02	2-7	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.16	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 28 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 -- 2-1-4

BRACING

Structural wood sheathing directly applied or TOP CHORD

5-11-4 oc purlins, except end verticals, and

2-0-0 oc purlins: 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=99 (LC 9)

Max Uplift 2=-110 (LC 12), 6=-139 (LC 9)

Max Grav 2=423 (LC 1), 6=443 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-450/144, 4-5=-324/192,

5-6=-432/251

BOT CHORD 2-7=-194/320, 6-7=-45/49 WEBS 4-7=-68/168, 5-7=-254/480

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) 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.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 6 and 110 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.
- 10) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 221 lb down and 65 lb up at 3-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

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

Concentrated Loads (lb)

Vert: 4=-59 (F), 7=-221 (F)



July 5,2024



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 187 P240941-01 J6 Jack-Closed Girder 1

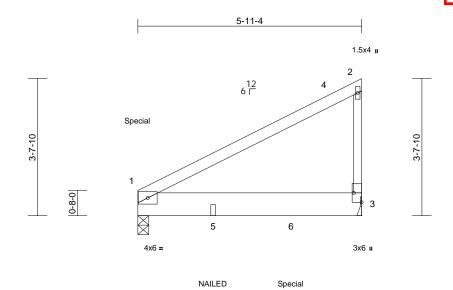
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

LEE'S SUMMIT, MISSOURI Job Reference (optional Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I c. Wed Jd 06 1 ID:nLubOpU3SrvS3z21IARSfAzZ4Ou-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

WrCDoi7J4

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166660866



Scale = 1:30.6

Plate Offsets (X, Y): [3: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	0.88	Vert(LL)	-0.06	1-3	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.68	Vert(CT)	-0.12	1-3	>584	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 31 lb	FT = 20%

5-11-4

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 5-11-4 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-3-6 oc

bracing.

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

Max Horiz 1=139 (LC 9)

Max Uplift 1=-227 (LC 12), 3=-460 (LC 12) Max Grav 1=958 (LC 1), 3=1555 (LC 1)

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-196/132, 2-3=-199/264

BOT CHORD 1-3=-64/70

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 5-10-0 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 1 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 227 lb uplift at joint 1 and 460 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.

- 7) "NAILED" indicates Girder: 3-10d (0.148" x 3") toe-nails per NDS guidelines
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 38 lb down and 27 lb up at 0-1-12 on top chord, and 1813 lb down and 549 lb up at 4-0-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-2=-70, 1-3=-20

Concentrated Loads (lb)

Vert: 1=-38 (B), 5=-150 (B), 6=-1813 (B)



July 5,2024



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 187 P240941-01 J1 Jack-Open 36 1

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

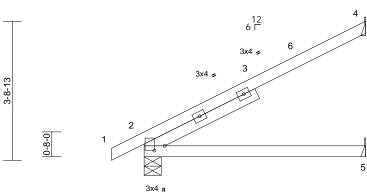
Job Reference (optional Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I

LEE'S SUMMIT, MISSOURI c. Wed Ju 08 11 ID:nLubOpU3SrvS3z21IARSfAzZ4Ou-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7J4z

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166660867





5-11-4

Scale = 1:30.9

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

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.

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

LOAD CASE(S) Standard



July 5,2024



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

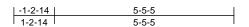


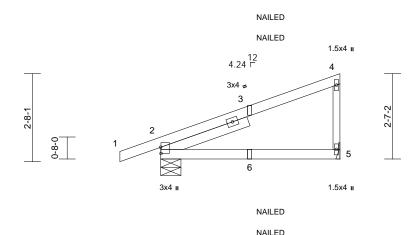
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	CG5	Diagonal Hip Girder	3	1	Job Reference (optional)

DEVELOPMENT SERVICES 166660868 LEE'S SUMMIT, MISSOURI Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I

c. Wed Jd 0671 ID:U_zxwQOg5h0Sjv?hrCpptizZ4P?-RfC?PsB70Hq3NSgPqnL8w3uITXbGK /rCDoi7J4zJ

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW





Scale = 1:35

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	0.73	Vert(LL)	-0.05	2-5		240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.10	2-5	>657	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: 25 lb	FT = 20%

5-5-5

LUMBER

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

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

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

Max Horiz 2=110 (LC 11)

Max Uplift 2=-106 (LC 8), 5=-59 (LC 12) Max Grav 2=337 (LC 1), 5=230 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=0/5, 2-4=-143/84, 4-5=-177/251

BOT CHORD 2-5=-46/50

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 59 lb uplift at joint 5 and 106 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

> OF MISS SCOTT M. **SEVIER** NUMBER PE-2001018807 NESSIONAL STONAL

July 5,2024



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 187 P240941-01 V9 Valley 1

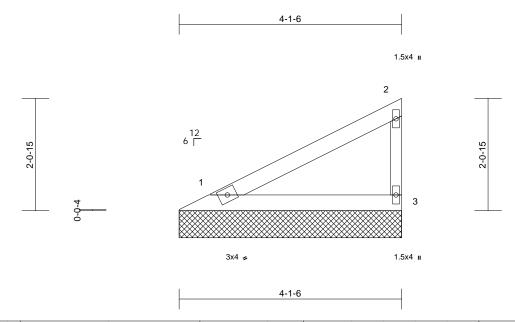
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

LEE'S SUMMIT, MISSOURI Job Reference (optional

ID:WvrSZ3Ci3AEazJa1u1rozRz?om4-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7J4z

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES 166660869



Scale = 1:21.3

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 13 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-1-14 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=76 (LC 9)

Max Uplift 1=-24 (LC 12), 3=-43 (LC 12) Max Grav 1=154 (LC 1), 3=154 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-108/73, 2-3=-120/155

BOT CHORD 1-3=-35/38

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 24 lb uplift at joint 1 and 43 lb uplift at joint 3.

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

LOAD CASE(S) Standard



July 5,2024



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



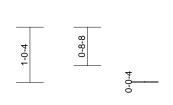
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	V4	Valley	1	1	Job Reference (optional)

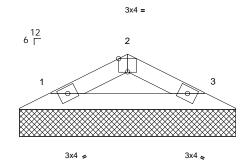
ID:71A2siLYH9O9d77j2eDeAezZ4P4-RfC?PsB70Hq3NSgPqnL8w3uITXbGk WrCDoi7J4zJeyy 43/2924

DEVELOPMENT SERVICES 166660870 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

1	1	3-11-14
1-11-15	3-4-15	
1-11-15	1-5-0	0-6-15





3-11-14

Scale = 1:21.3

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

-												
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	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 2x4 SP No.2 BOT CHORD

BRACING

TOP CHORD Structural wood sheathing directly applied or

4-0-14 oc purlins.

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

bracing.

REACTIONS (size) 1=3-11-14, 3=3-11-14

Max Horiz 1=13 (LC 16)

Max Uplift 1=-19 (LC 12), 3=-19 (LC 13) Max Grav 1=127 (LC 1), 3=127 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-127/113, 2-3=-127/120

TOP CHORD BOT CHORD 1-3=-78/98

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.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 19 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



July 5,2024



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



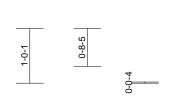
Job	Truss	Truss Type	Qty	Plv	Roof - HT Lot 187
300	11033	Truss Type	Qty	i iy	KOOI - III LOU 187
P240941-01	V6	Valley	1	1	Job Reference (optional)

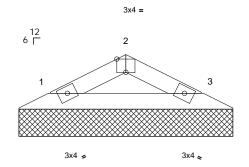
Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I ID:bDkQ42LA1TW0EHivcMktjszZ4P3-RfC?PsB70Hq3NSgPqnL8w3uITXbGk WrCDoi7J4z

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660871 LEE'S SUMMIT, MISSOURI c. Wed Ju 08 11 WrCDoi7J4zJe?

RELEASE FOR CONSTRUCTION

1-11-10	3-4-5	3-11-4
1-11-10	1-4-11	0-6-15





3-11-4

Scale = 1:21.2

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.09	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 4-0-4 oc purlins.

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

bracing.

REACTIONS (size) 1=3-11-4, 3=3-11-4

Max Horiz 1=-13 (LC 17)

Max Uplift 1=-19 (LC 12), 3=-19 (LC 13) Max Grav 1=124 (LC 1), 3=124 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-125/111, 2-3=-125/118

BOT CHORD 1-3=-76/96

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.

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 1 and 19 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



July 5,2024



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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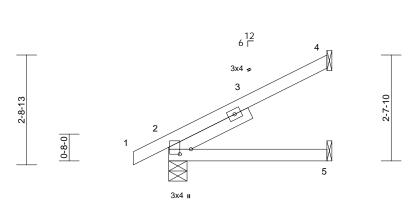
Job Truss Truss Type Qty Ply Roof - HT Lot 187 P240941-01 J3 Jack-Open 4 1 Job Reference (optional

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

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660872 LEE'S SUMMIT, MISSOURI

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, Irc. Wed July 10 11 ID:n3N9p?HPSdlsWMEmG5eTTbzZ4P9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDd7.

-0-10-8 3-11-4 0-10-8 3-11-4



3-11-4

Scale = 1:28.7

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.01	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 -- 2-2-11 SLIDER

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-11-4 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=103 (LC 12)

Max Uplift 2=-33 (LC 12), 4=-88 (LC 12) Max Grav 2=243 (LC 1), 4=129 (LC 1), 5=78

(LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-97/50

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



July 5,2024



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

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



Qty Ply Job Truss Truss Type Roof - HT Lot 187 P240941-01 LG6 Lay-In Gable 1

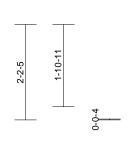
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

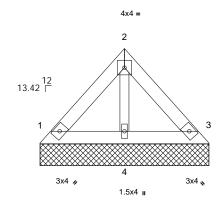
DEVELOPMENT SERVICES 166660873 LEE'S SUMMIT, MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, II c. Wed Jul 0611 ID:FGwX1LI1Dwtj8Wpypp9i0ozZ4P8-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J4z







3-10-10

Scale = 1:26.5

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	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: 15 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

3-11-2 oc purlins.

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

bracing.

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

Max Horiz 1=-53 (LC 8)

Max Uplift 1=-28 (LC 13), 3=-24 (LC 13) Max Grav 1=97 (LC 1), 3=97 (LC 1), 4=101

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-77/39, 2-3=-70/33

BOT CHORD 1-4=-17/39, 3-4=-17/39

WFBS 2-4=-60/17

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
- 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 28 lb uplift at joint 1 and 24 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



July 5,2024



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 187 P240941-01 J4 Jack-Open 1 Job Reference (optional

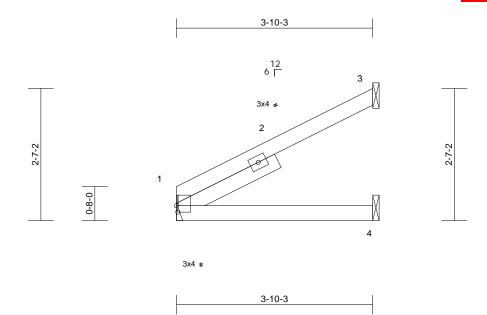
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Run: 8.63 E Feb 9 2023 Print: 8.630 E Feb 9 2023 MiTek Industries, Inc. Fi ID:FGwX1LI1Dwtj8Wpypp9i0ozZ4P8-O7fq2Nhc6d13oESjPSMnt35p8_vBG_

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660874 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

Jul 05 14 58 24 s6BCj6Zz?F



Scale = 1:22.6

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

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	0.33	Vert(LL)	-0.01	1-4	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	1-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.01	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 16 lb	FT = 20%

LUMBER

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

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

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 (lb/size)

1=170/ Mechanical, 3=133/ Mechanical, 4=38/ Mechanical

Max Horiz 1=98 (LC 12)

Max Uplift 1=-8 (LC 12), 3=-89 (LC 12) Max Grav 1=170 (LC 1), 3=133 (LC 1), 4=76

(LC 3)

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

(lb) or less except when shown.

FORCES NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 8 lb uplift at joint 1 and 89 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



July 5,2024



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 187 P240941-01 J9 Jack-Open 9 1

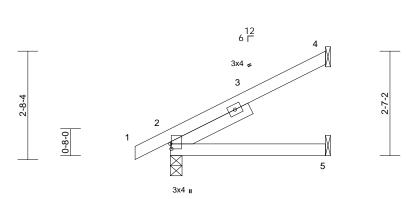
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Job Reference (optional Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I c. Wed Ju 0671

ID:FGwX1LI1Dwtj8Wpypp9i0ozZ4P8-RfC?PsB70Hq3NSgPqnL8w3uITXbGK_VrCDoi7J4z.

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660875 LEE'S SUMMIT, MISSOURI

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



3-10-3

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)	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=0-3-8, 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

OF MISSO SCOTT M. **SEVIER** NUMBER PE-2001018807 SSIONAL .

July 5,2024



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



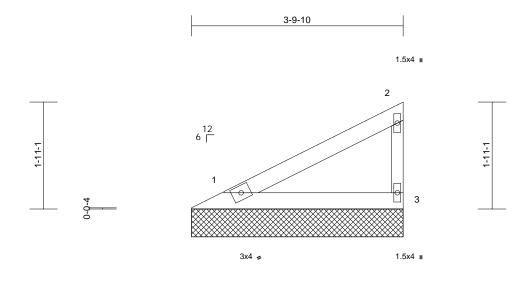
Job Truss Truss Type Qty Ply Roof - HT Lot 187 P240941-01 V1 Valley 1

Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660876 LEE'S SUMMIT, MISSOURI

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

ID:Be2IS1JHIY8RNqzKxEBA5DzZ4P6-RfC?PsB70Hq3NSgPqnL8w3uITXbG (WrCDoi7J42



Scale = 1:20.7

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	0.21	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: 12 lb	FT = 20%

3-9-10

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 3-10-2 oc purlins, except end verticals. BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 1=69 (LC 9)

Max Uplift 1=-22 (LC 12), 3=-39 (LC 12) Max Grav 1=140 (LC 1), 3=140 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

1-2=-98/66, 2-3=-109/141

TOP CHORD BOT CHORD 1-3=-32/35

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 22 lb uplift at joint 1 and 39 lb uplift at joint 3.

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

LOAD CASE(S) Standard



July 5,2024



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

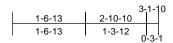


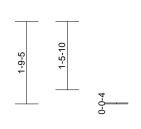
Job	Truss	Truss Type	Qty	Ply	Roof - HT Lot 187
P240941-01	LG3	Lay-In Gable	1	1	Job Reference (optional

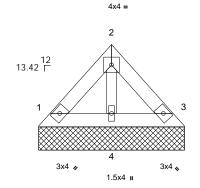
Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, It c. Wed June 17 2024 MiTek Industries, It c

DEVELOPMENT SERVICES 166660877 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW







3-1-10

Scale = 1:24.8

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.01	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** 2x3 SPF No.2 OTHERS

BRACING

TOP CHORD Structural wood sheathing directly applied or

3-2-2 oc purlins.

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

bracing.

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

Max Horiz 1=41 (LC 11)

Max Uplift 1=-21 (LC 13), 3=-19 (LC 13) Max Grav 1=74 (LC 1), 3=74 (LC 1), 4=78

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-60/30, 2-3=-54/25

BOT CHORD 1-4=-13/30, 3-4=-13/30

WFBS 2-4=-47/13

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 21 lb uplift at joint 1 and 19 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



July 5,2024



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 187 P240941-01 CG3 Diagonal Hip Girder 2 1 Job Reference (optional

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

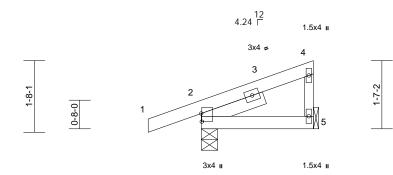
Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries, In ID:bDkQ42LA1TW0EHivcMktjszZ4P3-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660878 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

c. Wed Ju 08 11 WrCDoi7J4z

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



2-7-6

Scale = 1:26.9

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%

LUMBER

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

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=0-4-9, 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.
- One H2.5T Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5 and 2. This connection is for uplift only and does not consider lateral forces.

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

LOAD CASE(S) Standard



July 5,2024



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 187 P240941-01 V10 Valley 1 1

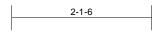
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

Job Reference (optional

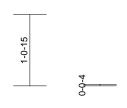
AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660879 LEE'S SUMMIT, MISSOURI

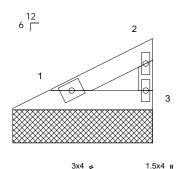
RELEASE FOR CONSTRUCTION

ID:WvrSZ3Ci3AEazJa1u1rozRz?om4-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7J4z



1.5x4 II







2-1-6

Scale = 1:17.4

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	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-1-14 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 1=2-1-6, 3=2-1-6

Max Horiz 1=32 (LC 9)

Max Uplift 1=-10 (LC 12), 3=-18 (LC 12) Max Grav 1=64 (LC 1), 3=64 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-45/30, 2-3=-50/65

BOT CHORD 1-3=-15/16

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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 10 lb uplift at joint 1 and 18 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

OF MISSO SCOTT M. SEVIER NUMBER OFFISIONAL STONAL PE-2001018807

July 5,2024



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 187
P240941-01	J8	Jack-Open	3	1	Job Reference (optiona

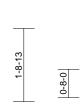
Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I

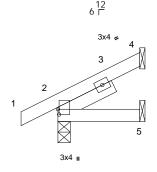
AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660880 LEE'S SUMMIT, MISSOURI

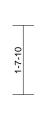
RELEASE FOR CONSTRUCTION

c. Wed Ju 08 11 ID:bDkQ42LA1TW0EHivcMktjszZ4P3-RfC?PsB70Hq3NSgPqnL8w3uITXbGkWrCDoi7J4z

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







1-11-4

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

1-11-4 oc purlins.

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

bracing.

REACTIONS (size) 2=0-3-8, 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 45 lb uplift at joint 4.

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

LOAD CASE(S) Standard



July 5,2024



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 187 P240941-01 J7 Jack-Open 2 1

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

Job Reference (optional Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I ID:bDkQ42LA1TW0EHivcMktjszZ4P3-RfC?PsB70Hq3NSgPqnL8w3uITXbGk

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660881 LEE'S SUMMIT, MISSOURI c. Wed Ju 08 11

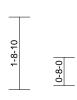
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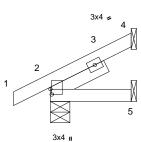
RELEASE FOR CONSTRUCTION

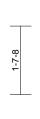
-0-10-8 1-10-15 0-10-8 1-10-15

6 T









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



July 5,2024



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

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



Qty Job Truss Truss Type Roof - HT Lot 187 P240941-01 J5 Jack-Open 1

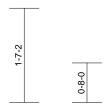
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,

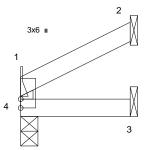
DEVELOPMENT SERVICES 166660882 LEE'S SUMMIT, MISSOURI Job Reference (optional

RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW

ID:FGwX1LI1Dwtj8Wpypp9i0ozZ4P8-RfC?PsB70Hq3NSgPqnL8w3uITXbGK VrCDoi7J4z









1-10-3

Scale = 1:19.5

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	0.05	Vert(LL)	0.00	3-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	3-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 6 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-3 oc purlins, except end verticals.

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

bracing.

REACTIONS (size)

1= Mechanical, 2= Mechanical, 3=

Mechanical, 4=0-3-8 Max Horiz 1=33 (LC 9)

Max Uplift 1=-21 (LC 12), 2=-34 (LC 12)

1=64 (LC 1), 2=58 (LC 1), 3=34 Max Grav

(LC 3), 4=36 (LC 3)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-4=0/0, 1-2=-39/20

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.
- Bearings are assumed to be: , Joint 4 SP No.2 crushing capacity of 565 psi.
- 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 21 lb uplift at joint 1 and 34 lb uplift at joint 2.

- 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.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.

LOAD CASE(S) Standard



July 5,2024



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

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



Job Truss Truss Type Qty Roof - HT Lot 187 P240941-01 J2 Jack-Open 13 1 Job Reference (optional

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

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660883 LEE'S SUMMIT, MISSOURI

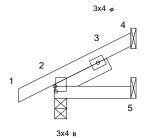
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RELEASE FOR CONSTRUCTION

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

6 T



1-10-3

Scale = 1:28

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

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	0.06	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=0-3-8, 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



July 5,2024



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 187 P240941-01 V2 Valley 1

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

Job Reference (optional Run: 8.91 S 8.63 Jun 17 2024 Print: 8.630 S Jun 17 2024 MiTek Industries. I

6x6 =

AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES 166660884 LEE'S SUMMIT, MISSOURI

RELEASE FOR CONSTRUCTION

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1-9-10

2

3x4 =

1-9-10

Scale = 1:16.7

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: 5 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 1-10-2 oc purlins, except end verticals.

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

bracing.

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

Max Horiz 1=25 (LC 9)

Max Uplift 1=-8 (LC 12), 3=-14 (LC 12) Max Grav 1=50 (LC 1), 3=50 (LC 1)

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-35/24, 2-3=-39/50

BOT CHORD 1-3=-12/13

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C 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 8 lb uplift at joint 1 and 14 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



July 5,2024



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

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



RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIZ-MISSOURI Offsets are indicated. Dimensions are in fr-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.

For 4 x 2 orientation, locate plates 0- ¹/₁₆" from outside

This symbol indicates the required direction of slots in connector plates.

edge of truss.

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

PLATE SIZE

4 × 4

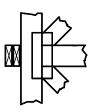
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

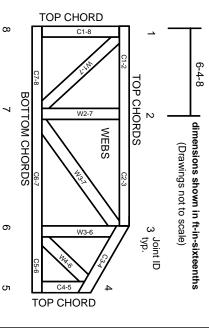
Industry Standards:

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

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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

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

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

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