

RE: P240076-01 - Roof - Osage Lot 43

**Site Information:** 

Project Customer: Clayton Properties Project Name: Emerald Townhome

Lot/Block: 43 Subdivision: Osage

Model:

Address: 3722/3726/3728/3730 SW Clayton PI

City: Lee's Summit State: MO

General Truss Engineering Criteria & Design Loads (Individual Truss Design

**Drawings Show Special Loading Conditions):** 

Design Code: IRC2018/TPI2014

Wind Code: ASCE 7-16 Wind Speed: 115 mph

Roof Load: 45.0 psf

Mean Roof Height (feet): 35

Design Program: MiTek 20/20 8.6

Design Method: MWFRS (Envelope)/C-C hybrid Wind ASCE 7-16

MiTek, Inc.

314.434.1200

16023 Swingley Ridge Rd.

Chesterfield, MO 63017

Floor Load: N/A psf

Exposure Category: C

No.	Seal#	Truss Name	Date
1234567891011234567891012212223456	163424346 163424347 163424349 163424351 163424351 163424353 163424354 163424356 163424356 163424356 163424360 163424361 163424361 163424363 163424365 163424365 163424366 163424366 163424367 163424367 163424367 163424367	A1 A2 A3 A4 B1 C2 C3 C4 D1 D2 D3 E1 E2 G1A G2A V1 V2 V3 V4 V5 V6 V7	2/6/24 2/6/24

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 02/22/2024 10:33:26

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

Truss Design Engineer's Name: Sevier, Scott

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

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

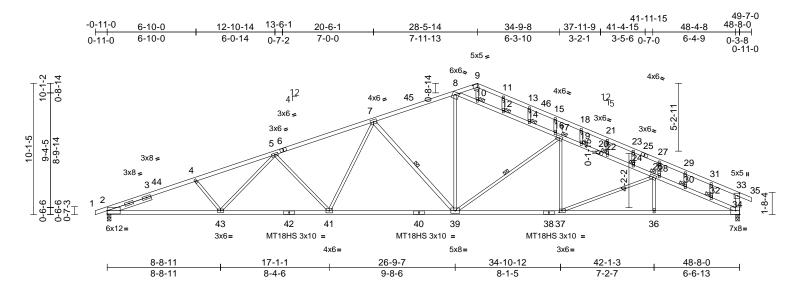


February 6,2024

ſ	Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
	P240076-01	A1	Roof Special Structural Gable	1	1	Job Reference (optional)	163424346

Run: 8 63 F. Jun 15 2023 Print: 8 630 F. Jun 15 2023 MiTek Industries. Inc. Mon Feb 05 13:13:40 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-9GhMRTE7BbEzNQVDnxozuCaBE3jnnyWNJQb4IHzoAoQ

Page: 1



LUMBER

Plate Offsets (X, Y): [8:0-3-8,0-2-7], [9:0-3-7,0-3-0], [33:0-2-8,0-1-12], [37:0-2-8,0-1-8]

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	0.88	Vert(LL)	-0.43	39-41	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.91	39-41	>640	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.26	34	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 262 lb	FT = 20%

2x4 SP No.2 \*Except\* 1-6:2x4 SP 2400F TOP CHORD 2.0E, 6-9:2x4 SP 1650F 1.5E **BOT CHORD** 2x4 SP 2400F 2.0E \*Except\* 0-0:2x4 SP No.2, 38-40,40-42:2x4 SP 1650F 1.5E WEBS 2x3 SPF No.2 \*Except\* 34-33:2x4 SP 1650F 1.5E. 39-7:2x4 SP No.2 OTHERS 2x3 SPF No.2

Left 2x4 SPF No.3 -- 3-6-9 SLIDER

**BRACING** TOP CHORD Structural wood sheathing directly applied or

Except:

2-7-15 oc purlins, except end verticals.

1 Row at midpt 17-22, 22-26

BOT CHORD Rigid ceiling directly applied or 7-8-14 oc

bracing. WFBS

1 Row at midpt 17-39, 7-39

**JOINTS** 1 Brace at Jt(s): 26, 17, 10, 12, 14, 22,

30, 32

REACTIONS (lb/size) 2=2247/0-3-8, 34=2258/0-3-8

Max Horiz 2=176 (LC 16)

Max Uplift 2=-410 (LC 8), 34=-299 (LC 13)

**FORCES** 

(lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 2-3=-5356/1055, 3-44=-5266/1070, 4-44=-5249/1080, 4-5=-5112/1047, 5-6=-4321/904, 6-7=-4307/933, 7-45=-3096/742, 8-45=-3018/760, 8-9=-514/398, 9-11=-513/397, 11-13=-525/359, 13-46=-522/339 15-46=-571/331, 15-18=-507/272, 18-21=-510/238, 21-23=-542/220, 23-25=-512/188, 25-27=-560/181, 27-29=-536/126, 29-31=-562/107, 31-33=-555/72, 33-35=0/29, 33-34=-388/146. 8-10=-2621/483, 10-12=-2554/428, 12-14=-2596/451, 14-16=-2610/458

16-17=-2727/509, 17-19=-3346/625 19-20=-3395/648. 20-22=-3395/648. 22-24=-3414/656, 24-26=-3455/681 26-28=-3802/809, 28-30=-3881/867

30-32=-3908/878, 32-34=-3976/917 **BOT CHORD** 2-43=-960/4934, 42-43=-854/4544, 41-42=-854/4544, 40-41=-645/3649, 39-40=-645/3649, 38-39=-607/3618,

37-38=-607/3618, 36-37=-816/4047,

34-36=-816/4047

4-43=-226/176, 8-39=-283/1619, 5-43=-51/444, 5-41=-795/291,

7-41=-117/862, 26-36=0/217, 17-37=0/433, 26-37=-533/245, 17-39=-965/267, 7-39=-1204/363, 9-10=-154/173, 11-12=-107/75, 13-14=-38/27, 15-16=-310/150, 18-19=-129/66,

21-22=-48/24, 23-24=-110/67 27-28=-220/158, 29-30=-71/30,

31-32=-160/92

### 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-14, Exterior(2R) 28-5-14 to 33-5-14, Interior (1) 33-5-14 to 49-7-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are MT20 plates unless otherwise indicated.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.



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· 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

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	A1	Roof Special Structural Gable	1	1	Job Reference (optional)	163424346

Run: 8.63 E Jun 15 2023 Print: 8.630 E Jun 15 2023 MiTek Industries, Inc. Mon Feb 05 13:13:40  $ID: kkw6VMCTKypljEPYbt576Oz\_rGt-9GhMRTE7BbEzNQVDnxozuCaBE3jnnyWNJQb4IHzoAoQAbE2Dinterval and the property of the property of$ 

Page: 2

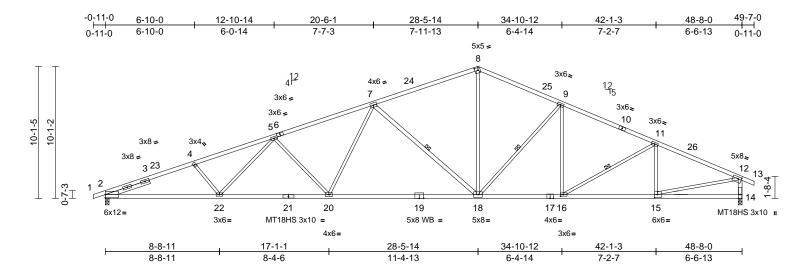
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	A2	Roof Special	2	1	Job Reference (optional)	163424347

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:44 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:88

Plate Offsets (X, Y): [8:0-2-15,0-2-8], [12:0-3-0,0-1-12], [15:0-2-8,0-3-0], [16:0-2-8,0-1-8]

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	1.00	Vert(LL)	-0.38	18-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.89	18-20	>651	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.20	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 229 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E \*Except\* 10-13:2x4 SP

No.2, 10-8:2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP 2400F 2.0E \*Except\* 0-0,17-14:2x4 SP No.2

WEBS 2x3 SPF No.2 \*Except\* 14-12,18-7:2x4 SP

No 2

OTHERS 2x4 SPF No.3

SLIDER Left 2x4 SPF No.3 -- 3-6-9

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals

BOT CHORD Rigid ceiling directly applied or 7-9-8 oc

bracing.

WEBS 1 Row at midpt 11-16, 9-18, 7-18 **REACTIONS** (size) 2=0-3-8, 14=0-3-8

Max Horiz 2=176 (LC 12)

Max Uplift 2=-410 (LC 8), 14=-299 (LC 13)

Max Grav 2=2247 (LC 1), 14=2258 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 2-4=-5356/1084, 4-5=-5108/1050, 5-7=-4330/928, 7-8=-2894/728,

8-9=-2968/743, 9-11=-3396/769, 11-12=-3356/696, 12-13=0/29,

12-14=-2192/569

BOT CHORD 2-22=-964/4936, 20-22=-847/4538,

18-20=-654/3662, 16-18=-509/3047, 15-16=-565/3019, 14-15=-80/181

WEBS 4-22=-238/181, 8-18=-292/1534,

5-22=-63/443, 5-20=-764/283, 7-20=-94/866, 11-15=-503/205, 9-16=0/222, 11-16=-138/178, 9-18=-686/266,

7-18=-1372/407, 12-15=-497/2909

### 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-14, Exterior(2R) 28-5-14 to 33-5-14, Interior (1) 33-5-14 to 49-7-0 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
- 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 14 SP No.2 crushing capacity of 565 psi.
- 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



February 6,2024

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

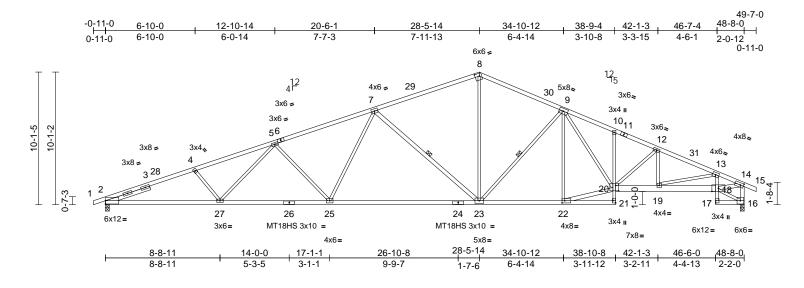
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	A3	Roof Special	5	1	Job Reference (optional)	l63424348

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Fri Feb 02 17:14:45 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:87.8

Plate Offsets (X, Y): [8:0	:0-3-15,0-2-8], [14:0-2-15,0-2-0], [	[20:0-2-12,0-5-0], [21:Edg	ge,0-2-8], [22:0-2-8,0-2-0]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.40	23-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.94	23-25	>617	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.30	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 246 lb	FT = 20%

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TOP CHORD 2x8 SPF No.2 \*Except\* 1-6,6-8:2x4 SP

2400F 2.0E, 11-8:2x4 SP 1650F 1.5E,

11-15:2x4 SP No.2

BOT CHORD 2x4 SP No.2 \*Except\* 21-10,13-17:2x3 SPF No.2, 20-18:2x6 SPF No.2, 26-2,24-26:2x4

SP 2400F 2.0E, 24-21:2x4 SP 1650F 1.5E 2x3 SPF No.2 \*Except\* 16-14:2x4 SPF No.3,

20-22,23-7,14-18:2x4 SP No.2 Left 2x4 SPF No.3 -- 3-6-9

**BRACING** 

WFBS

SLIDER

TOP CHORD Structural wood sheathing directly applied or

2-3-10 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 8-5-13 oc

bracing.

WFBS 1 Row at midpt 9-23, 7-23 REACTIONS 2=0-3-8, 16=0-3-8 (size)

Max Horiz 2=176 (LC 16)

Max Uplift 2=-410 (LC 8), 16=-299 (LC 13)

Max Grav 2=2247 (LC 1), 16=2258 (LC 1)

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

Tension TOP CHORD

1-2=0/0. 2-4=-5355/1084. 4-5=-5108/1050.

5-7=-4330/928, 7-8=-2893/729, 14-16=-2200/543, 8-9=-2963/742, 9-10=-4143/954, 10-12=-4185/904 12-13=-4395/907, 13-14=-3505/748,

14-15=0/29

**BOT CHORD** 20-21=0/76, 10-20=-167/90,

19-20=-743/4004, 18-19=-692/3289, 17-18=0/34, 13-18=-714/196, 16-17=-26/86,

2-27=-964/4935, 25-27=-847/4539, 23-25=-654/3661, 22-23=-506/3031,

21-22=-26/165

**WEBS** 

4-27=-238/180, 5-27=-63/443, 5-25=-764/283, 7-25=-93/867, 8-23=-286/1518, 12-19=-54/86 9-22=-726/188, 20-22=-499/2976,

9-23=-664/259, 7-23=-1372/405, 13-19=-101/739, 12-20=-312/114, 16-18=-74/58, 14-18=-676/3260,

9-20=-302/1433

### NOTES

- 1) Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) 2) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II: Exp C: Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-14, Exterior(2R) 28-5-14 to 33-5-14, Interior (1) 33-5-14 to 49-7-0 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
- 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 16 SP No.2 crushing capacity of 565 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 6,2024

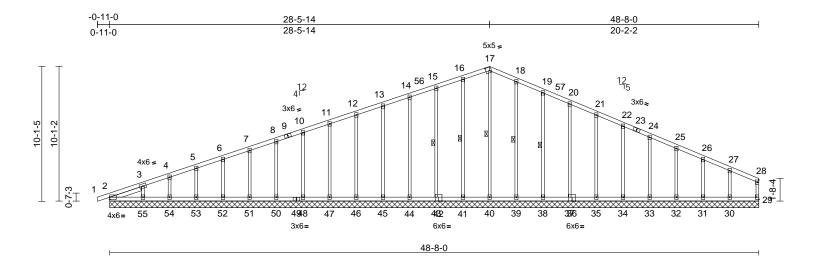
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE



J	ob	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P	240076-01	A4	Roof Special Supported Gable	1	1	Job Reference (optional)	163424349

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:46 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.4

LIMBER

Plate Offsets (X, Y):	Plate Offsets (A, 1): [17:0-3-7,0-3-0], [29:Edge,0-2-8]											
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	1	
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	29	n/a	n/a	1	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 254 lb	FT = 20%

LUMBER		Max Grav	2=17
TOP CHORE	2x4 SP No.2		30=2
BOT CHORE	2x4 SP No.2		32=1
WEBS	2x3 SPF No.2		34=1
OTHERS	2x3 SPF No.2		37=1
SLIDER	Left 2x4 SPF No.3 2-6-2		39=1
BRACING			41=1
			44=1
TOP CHORE	3 , . , . , . , . , . , . , . , .		46=1
	6-0-0 oc purlins, except end verticals.		40 4

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

WEBS 1 Row at midpt 17-40, 16-41, 15-43,

18-39, 19-38

REACTIONS	(size)	2=48-8-0, 29=48-8-0, 30=48-8-0,
		31=48-8-0, 32=48-8-0, 33=48-8-0,
		34=48-8-0, 35=48-8-0, 37=48-8-0,
		38=48-8-0, 39=48-8-0, 40=48-8-0,
		41=48-8-0, 43=48-8-0, 44=48-8-0,
		45=48-8-0, 46=48-8-0, 47=48-8-0,
		48=48-8-0, 50=48-8-0, 51=48-8-0,
		52=48-8-0, 53=48-8-0, 54=48-8-0,
		55=48-8-0
	Max Horiz	2=184 (LC 12)
	Max Uplift	2=-50 (LC 13), 29=-1 (LC 8),

2=184 (LC 12)
2=-50 (LC 13), 29=-1 (LC 8),
30=-87 (LC 13), 31=-42 (LC 13),
32=-53 (LC 13), 33=-51 (LC 13),
34=-51 (LC 13), 35=-51 (LC 13),
37=-50 (LC 13), 38=-57 (LC 13),
39=-40 (LC 13), 41=-39 (LC 12),
43=-50 (LC 8), 44=-45 (LC 12),
45=-46 (LC 8), 46=-46 (LC 12),
47=-46 (LC 8), 48=-46 (LC 12),
50=-46 (LC 8), 51=-46 (LC 12),
52=-46 (LC 8), 53=-46 (LC 12),
54=-46 (LC 8), 55=-76 (LC 12)

Max Grav 2=176 (LC 1), 29=83 (LC 1), 30=201 (LC 26), 31=175 (LC 1), 32=181 (LC 26), 33=180 (LC 1), 34=180 (LC 26), 35=180 (LC 26), 37=180 (LC 1), 38=180 (LC 26), 39=188 (LC 26), 40=218 (LC 22), 41=188 (LC 25), 44=180 (LC 25), 44=180 (LC 1), 45=180 (LC 25), 46=180 (LC 1), 47=180 (LC 25), 48=180 (LC 1), 50=180 (LC 1), 51=180 (LC 1), 51=180 (LC 1), 51=180 (LC 25), 53=182 (LC 1), 54=174 (LC 25), 55=210 (LC 25)

(lb) - Maximum Compression/Maximum Tension 1-2=0/0, 2-3=-205/124, 3-4=-163/127, 4-5=-141/144, 5-6=-120/161, 6-7=-99/178, 7-8=-78/195, 8-10=-88/219, 10-11=-99/247, 11-12=-111/275, 12-13=-122/303, 13-14=-133/331, 14-15=-145/358, 15-16=-157/388, 16-17=-167/411, 17-18=-171/409, 18-19=-158/352.

19-20=-142/292. 20-21=-128/253.

21-22=-113/218, 22-24=-99/182, 24-25=-84/146, 25-26=-69/110, 26-27=-56/76, 27-28=-50/41, 28-29=-65/27 2-55=-34/63, 54-55=-34/63, 53-54=-34/63, 50-51=-34/63, 51-52=-34/63, 50-51=-34/63, 48-50=-34/63, 47-48=-34/63, 46-47=-34/63, 45-46=-34/63, 44-45=-34/63, 39-40=-34/63, 38-39=-34/63, 37-38=-34/63, 35-37=-34/63, 31-32=-34/63, 33-34=-34/63, 32-34-35=-34/63, 31-32=-34/63, 30-31=-34/63, 29-30=-34/63

WEBS 17-40=-186/38, 16-41=-148/118, 15-43=-140/123, 14-44=-140/71, 13-45=-140/70, 12-46=-140/70, 11-47=-140/70, 10-48=-140/70, 8-50=-140/70, 7-51=-140/70, 6-52=-140/70, 5-53=-141/70, 4-54=-137/69, 3-55=-161/101, 18-39=-148/123, 19-38=-140/134, 20-37=-140/75, 21-35=-140/75, 22-34=-140/75, 24-33=-140/75, 25-32=-141/76, 26-31=-136/69, 27-30=-157/100

### NOTES

 Unbalanced roof live loads have been considered for this design.



February 6,2024

### Continued on page 2

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

**FORCES** 

TOP CHORD

**BOT CHORD** 



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	A4	Roof Special Supported Gable	1	1	Job Reference (optional)	163424349

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:46 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 28-5-14, Corner(3R) 28-5-14 to 33-5-14, Exterior(2N) 33-5-14 to 48-6-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 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 3x4 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.
- 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

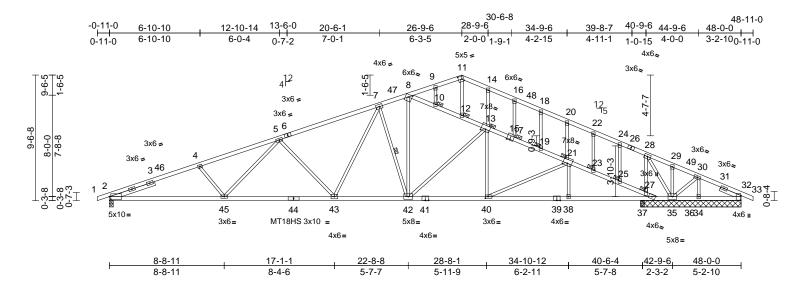
02/22/2024 10:33:26

Page: 2

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	B1	Roof Special Structural Gable	4	1	Job Reference (optional)	163424350

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:47 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:87.5

LUMBER

**BRACING** 

FORCES

Plate Offsets (X, Y): [2:0-1-4,0-2-8], [8:0-3-8,0-2-7], [11:0-3-3,0-2-12], [13:0-4-0,0-2-0],	], [15:0-3-0,0-0-12], [21:0-4-0,0-2-0], [32:0-4-3,0-0-7], [40:0-2-8,0-1-8]
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TOP CHORD

**BOT CHORD** 

WEBS

Loading	(psf)	Spacing	1-11-4	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.37	43-45	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.73	43-45	>669	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.23	35	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 263 lb	FT = 20%

5-7=-3356/716, 7-8=-2655/646,

11-14=-760/292, 14-16=-761/253,

16-18=-790/234, 18-20=-822/212,

20-22=-753/143, 22-24=-778/118,

8-9=-741/252, 9-11=-742/281,

TOP CHORD	2x4 SP No.2 *Except* 1-6,6-11:2x4 SP 1650F
	1.5E
BOT CHORD	2x4 SP 1650F 1.5E

WFBS 2x3 SPF No 2 **OTHERS** 2x3 SPF No 2 SLIDER

Left 2x4 SPF No.3 -- 3-7-3, Right 2x4 SPF No.3 -- 1-8-10

TOP CHORD Structural wood sheathing directly applied or

2-7-9 oc purlins. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc

bracing. WFBS 7-42

1 Row at midpt

**JOINTS** 1 Brace at Jt(s): 12, 10, 17, 19, 23, 25,

27, 13, 21

REACTIONS (size) 2=0-3-8 32=7-7-8 34=7-7-8

35=7-7-8, 36=7-7-8, 37=0-3-8

Max Horiz 2=163 (LC 12)

Max Uplift 2=-354 (LC 8), 34=-37 (LC 26),

35=-592 (LC 13), 36=-8 (LC 8) Max Grav 2=1905 (LC 1), 32=152 (LC 1)

34=206 (LC 13), 35=1876 (LC 1), 36=239 (LC 1), 37=270 (LC 3)

(lb) - Maximum Compression/Maximum

Tension

24-28=-817/100, 28-29=-329/412, 29-30=-355/376, 30-32=-159/138, 32-33=0/0,

8-10=-1901/410, 10-12=-1952/434,

1-2=0/0, 2-4=-4430/866, 4-5=-4194/834,

12-13=-1844/396, 13-17=-2221/485 17-19=-2238/498, 19-21=-2263/512, 21-23=-2773/665, 23-25=-2800/680,

25-27=-2818/690, 27-36=-2584/630 2-45=-774/4081, 43-45=-633/3635,

42-43=-382/2755, 40-42=-360/2767, 38-40=-525/3270, 37-38=-525/3270

36-37=-525/3270, 35-36=-694/0, 34-35=-105/174, 32-34=-105/174

11-12=-99/280, 9-10=-131/64, 13-14=-168/120, 16-17=-46/34 18-19=-69/40, 20-21=-282/157,

22-23=-73/43, 24-25=-52/31, 27-28=-236/935, 29-35=-42/44 30-34=-183/129, 4-45=-248/176, 5-45=-51/484, 5-43=-800/284, 8-42=-297/1354, 7-42=-1021/315,

13-42=-494/112, 13-40=-16/408, 21-40=-604/212, 21-38=0/184, 30-35=-326/319, 28-35=-1953/558,

7-43=-141/814

### 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 26-9-6, Exterior(2R) 26-9-6 to 31-9-6, Interior (1) 31-9-6 to 48-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 MT20 plates unless otherwise indicated.
- All plates are 3x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP 1650F 1.5E crushing capacity of 565 psi.



February 6,2024

ontinued on page 2

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

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

LEE'S'SUMMITUS MISSOURI 02/22/2024 10:33:26

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	B1	Roof Special Structural Gable	4	1	Job Reference (optional)	163424350

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:47  $ID: kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

Page: 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) N/A

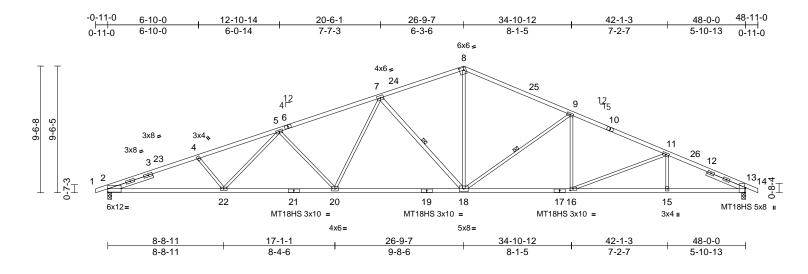
LOAD CASE(S) Standard



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	B2	Roof Special	8	1	Job Reference (optional)	163424351

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:47 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.7

Plate Offsets (X, Y)	[8:0-3-15,0-2-8]	[13:0-4-7,Edge]	, [16:0-2-8,0-1-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.86	Vert(LL)	-0.40	20	>999	240	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.85	18-20	>679	180	MT18HS	244/190	
BCLL	0.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.25	13	n/a	n/a			
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 218 lb	FT = 20%	

LUMBER

TOP CHORD 2x4 SP 2400F 2.0E \*Except\* 6-8:2x4 SP

1650F 1.5E

**BOT CHORD** 2x4 SP 2400F 2.0E \*Except\* 17-19.19-21:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 \*Except\* 18-7:2x4 SP No.2 SLIDER Left 2x4 SPF No.3 -- 3-6-9, Right 2x4 SPF

No.3 -- 3-2-1

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 2-7-15 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 8-0-12 oc

bracing.

WEBS 1 Row at midpt 7-18, 9-18

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

Max Horiz 2=169 (LC 12)

Max Uplift 2=-399 (LC 8), 13=-308 (LC 13) Max Grav 2=2224 (LC 1), 13=2224 (LC 1)

(lb) - Maximum Compression/Maximum

**FORCES** Tension

1-2=0/0, 2-4=-5291/1070, 4-5=-5047/1038, TOP CHORD

5-7=-4251/923, 7-8=-3028/756, 8-9=-3158/759. 9-11=-3964/856. 11-13=-4430/895, 13-14=0/0

**BOT CHORD** 2-22=-917/4874, 20-22=-787/4479,

18-20=-572/3581, 16-18=-601/3609

15-16=-715/3920, 13-15=-715/3920

**WEBS** 4-22=-234/178, 8-18=-308/1652,

5-22=-53/454, 7-20=-119/864,

7-18=-1208/360, 5-20=-798/292,

11-15=0/226, 9-16=0/396, 11-16=-423/169,

9-18=-1028/324

### 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 26-9-7, Exterior(2R) 26-9-7 to 31-9-7, Interior (1) 31-9-7 to 48-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 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 2400F 2.0E crushing capacity of 805 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 6,2024

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

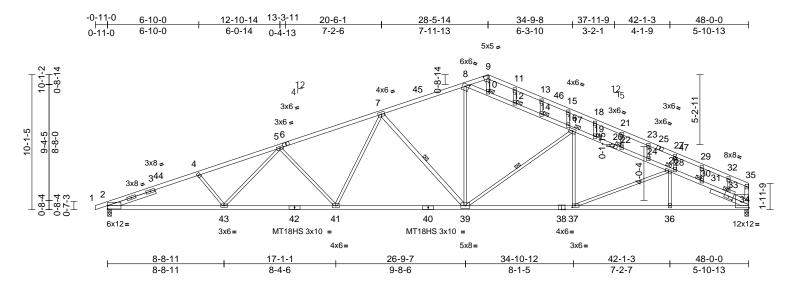
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	1	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P24	40076-01	C1	Roof Special Structural Gable	1	1	Job Reference (optional)	163424352

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:48 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.2

Plate Offsets (X, Y): [8:0-3-8,0-2-7], [9:0-3-7,0-3-0], [33:0-4-0,0-1-12], [34:Edge,0-6-12], [37:0-2-8,
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.99	Vert(LL)	-0.40	39-41	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.87	39-41	>661	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(CT)	0.24	34	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 261 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2 *Except* 1-6:2x4 SP 2400F
	2.0E, 6-9,20-34:2x4 SP 1650F 1.5E
BOT CHORD	2x4 SP 2400F 2.0E *Except*

38-40,40-42:2x4 SP 1650F 1.5E 2x3 SPF No.2 \*Except\* 39-7,34-35:2x4 SP

No.2 OTHERS 2x3 SPF No.2

SLIDER Left 2x4 SPF No.3 -- 3-9-1, Right 2x4 SPF No.3 -- 3-0-13

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or

2-8-3 oc purlins, except end verticals.

Except:

1 Row at midpt 8-12, 17-22, 30-34

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

bracing.

WEBS 1 Row at midpt 17-39, 7-39

JOINTS 1 Brace at Jt(s): 26,

17, 12, 14, 22, 30 **REACTIONS** (size) 2=0-3-8. 3

CTIONS (size) 2=0-3-8, 34=0-3-8 Max Horiz 2=185 (LC 12)

Max Uplift 2=-406 (LC 8), 34=-269 (LC 13) Max Grav 2=2212 (LC 1), 34=2156 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 2-4=-5253/1061, 4-5=-5015/1028, 5-7=-4214/912, 7-8=-2991/742,

8-9=-334/357, 9-11=-314/351, 11-13=-331/313, 13-15=-377/295, 15-18=-297/225, 18-21=-306/191, 21-23=-334/172, 23-27=-353/141, 27-29=-387/91, 29-32=-305/56, 32-35=-334/20, 8-10=-2694/514, 10-12=-2661/468, 12-14=-2698/490, 14-16=-2712/497, 16-17=-2840/551, 17-19=-3369/654, 19-22=-3419/677, 22-24=-3440/687, 24-26=-3474/709, 26-28=-3556/790, 28-30=-3581/839, 30-33=-3733/874, 33-34=-3733/930, 34-35=-160/9

BOT CHORD 2-43=-993/4846, 41-43=-887/4445

39-41=-677/3546, 37-39=-635/3461, 36-37=-784/3556, 34-36=-784/3556

WEBS 4-43=-229/176, 8-39=-273/1566, 5-43=-51/451, 5-41=-798/291,

7-41=-118/864, 26-36=0/190, 17-37=0/347, 26-37=-246/189, 17-39=-907/259, 7-39=-1197/362, 9-10=-134/102,

11-12=-96/72, 13-14=-37/27, 15-16=-334/157, 18-19=-131/66, 21-22=-54/26, 23-24=-97/64, 27-28=-110/135, 29-30=-339/84,

32-33=-50/113

### 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-14, Exterior(2R) 28-5-14 to 33-5-14, Interior (1) 33-5-14 to 47-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) All plates are 3x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP 2400F 2.0E crushing capacity of 805 psi.



February 6,2024

### Continued on page 2

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

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

RELEAST OR CONTRUCTION
AS NOTED ON LANS REVIEW
DEVELOR SERVICES
LEE'S SUMMITY MISSOURI
02/22/2024 10:33:26

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	C1	Roof Special Structural Gable	1	1	Job Reference (optional)	163424352

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:48  $ID: kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

Page: 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.

LOAD CASE(S) Standard

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

LEE'S'SUMNITUS MISSOURI 02/22/2024 10:33:26

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	C2	Roof Special	2	1	Job Reference (optional)	163424353

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Fri Feb 02 17:14:49 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

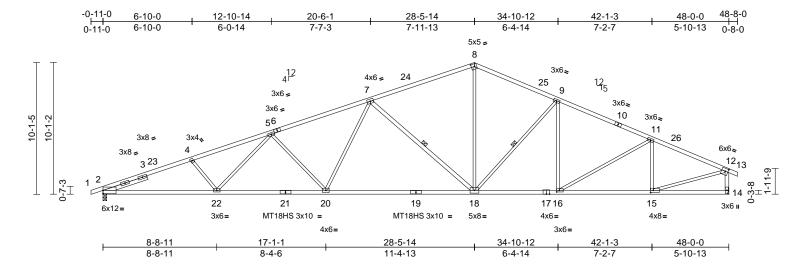


Plate Offsets (X, Y): [8:0-2-15,0-2-8], [12:0-2-12,0-2-8], [15:0-2-8,0-2-0], [16:0-2-8,0-1-8]

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	0.95	Vert(LL)	-0.37	18-20	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.63	Vert(CT)	-0.86	18-20	>666	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.93	Horz(CT)	0.18	14	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 225 lb	FT = 20%

### LUMBER

2x4 SP 2400F 2.0E \*Except\* 8-10:2x4 SP TOP CHORD

1650F 1.5E, 10-13:2x4 SP No.2

2x4 SP 2400F 2.0E \*Except\* 0-0:2x4 SP **BOT CHORD** No.2

2x3 SPF No.2 \*Except\* 14-12:2x4 SPF No.3,

WEBS 18-7:2x4 SP No 2

Left 2x4 SPF No.3 -- 3-6-9 SLIDER

**BRACING** 

TOP CHORD

WEBS

Structural wood sheathing directly applied,

except end verticals **BOT CHORD** 

Rigid ceiling directly applied or 8-5-3 oc

bracing

1 Row at midpt 9-18, 7-18

REACTIONS (size) 2=0-3-8, 14= Mechanical

Max Horiz 2=179 (LC 12)

Max Uplift 2=-407 (LC 8), 14=-284 (LC 13)

Max Grav 2=2218 (LC 1), 14=2210 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

TOP CHORD

Tension

1-2=0/0, 2-4=-5274/1068, 4-5=-5025/1034,

5-7=-4241/911, 7-8=-2803/711, 8-9=-2875/726, 9-11=-3237/739

11-12=-3010/634, 12-13=0/22,

12-14=-2151/543

BOT CHORD 2-22=-975/4859, 20-22=-857/4455,

18-20=-664/3577, 16-18=-508/2901, 15-16=-534/2712, 14-15=-67/111

**WEBS** 12-15=-487/2716, 4-22=-241/181,

8-18=-280/1470, 5-22=-63/447,

5-20=-765/283, 7-20=-94/866,

11-15=-650/234, 9-16=-33/160,

11-16=-46/296, 9-18=-615/255,

7-18=-1373/407

### 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 28-5-14, Exterior(2R) 28-5-14 to 33-5-14, Interior (1) 33-5-14 to 48-8-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 14 SPF No.3 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 6,2024

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 - Osage Lot 43	
P240076-01	C3	Roof Special	5	1	Job Reference (optional)	163424354

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:50 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

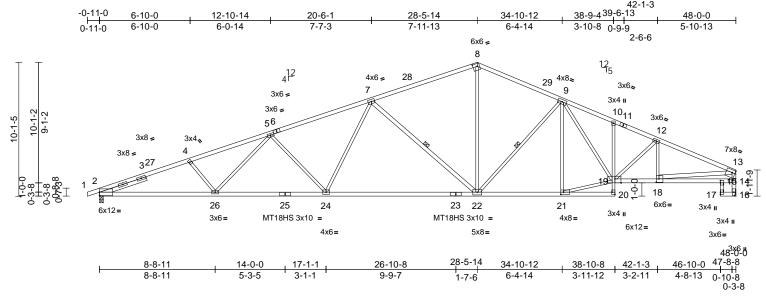


Plate Offsets (X, Y): [8:0-3-15,0-2-8], [13:Edge,0-2-8], [15:0-2-0,Edge], [18:0-2-8,0-3-0], [19:0-5-8,Edge], [20:Edge,0-2-8], [21:0-2-8,0-2-0]

-			-									
Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.39	22-24	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.92	22-24	>624	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.97	Horz(CT)	0.25	16	n/a	n/a	1	
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 239 lb	FT = 20%

LUMBER TOP CHORD

2x4 SP 2400F 2.0E \*Except\* 11-13,11-8:2x4

SP 1650F 1.5E

**BOT CHORD** 2x4 SP No 2 \*Except\* 20-10 15-17:2x3 SPF

No.2, 19-14,23-20:2x4 SP 1650F 1.5E, 25-2,23-25:2x4 SP 2400F 2.0E

2x3 SPF No.2 \*Except\* 16-13:2x4 SPF No.3,

WFBS 22-7.18-13:2x4 SP No.2

SLIDER Left 2x4 SPF No.3 -- 3-8-5

**BRACING** 

TOP CHORD Structural wood sheathing directly applied or 2-10-10 oc purlins, except end verticals.

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

bracing

WEBS 1 Row at midpt 9-22, 7-22

REACTIONS (size) 2=0-3-8, 16= Mechanical Max Horiz 2=185 (LC 12)

Max Uplift 2=-407 (LC 8), 16=-265 (LC 13)

Max Grav 2=2218 (LC 1), 16=2153 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/0, 2-4=-5273/1068, 4-5=-5028/1034.

5-7=-4242/910, 7-8=-2804/711, 8-9=-2871/715, 9-10=-3803/869

10-12=-3854/823, 12-13=-3900/773 14-16=-2092/420, 13-14=-2060/442

**BOT CHORD** 

19-20=0/77, 10-19=-152/75,

18-19=-703/3527, 15-18=-124/465, 14-15=-122/529, 15-17=-42/13, 16-17=-63/7,

2-26=-1016/4862, 24-26=-897/4457, 22-24=-703/3577, 21-22=-536/2888,

20-21=-23/145

**WEBS** 

12-18=-319/145, 4-26=-241/181, 8-22=-274/1455, 5-26=-64/448, 5-24=-765/283, 9-21=-636/187, 12-19=-141/100, 9-22=-594/247

7-22=-1373/406, 13-18=-584/3086, 7-24=-93/868, 19-21=-530/2833,

9-19=-247/1129

### 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0. Interior (1) 4-1-0 to 28-5-14, Exterior(2R) 28-5-14 to 33-5-14, Interior (1) 33-5-14 to 47-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 16 SPF No.3 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 6,2024

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

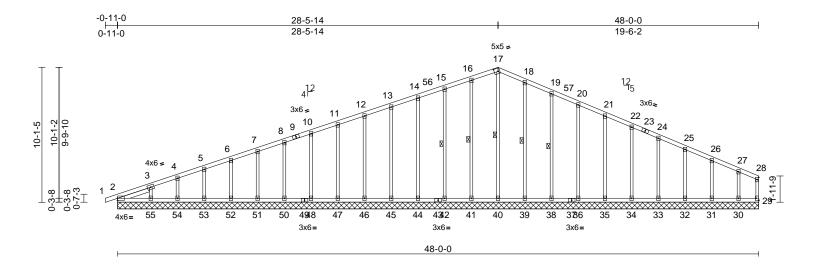
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	russ Truss Type C		Ply Roof - Osage Lot 43		
	C4	Roof Special Supported Gable	1	1	Job Reference (optional)	163424355

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Fri Feb 02 17:14:51 

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Scale = 1:86.2

Plate Offsets (X, Y): [17:0-3-7,0-3-0], [29: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	0.11	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	29	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 252 lb	FT = 20%

LUMBER			Max Grav	2=174 (LC 1), 29=57 (LC 22),
TOP CHORD	2x4 SP No.2			30=165 (LC 26), 31=184 (LC 1),
BOT CHORD	2x4 SP No.2			32=179 (LC 26), 33=180 (LC 1),
WEBS	2x3 SPF No.2			34=180 (LC 26), 35=180 (LC 26),
OTHERS	2x3 SPF No.2			36=180 (LC 1), 38=179 (LC 26),
SLIDER	Left 2x4 SPF No.3	2-6-2		39=189 (LC 26), 40=216 (LC 22),
BRACING				41=189 (LC 25), 42=179 (LC 25),
TOP CHORD	Structural wood sh	neathing directly applied or		44=180 (LC 1), 45=180 (LC 25),
		except end verticals.		46=180 (LC 1), 47=180 (LC 25),
BOT CHORD		tly applied or 10-0-0 oc		48=180 (LC 1), 50=180 (LC 25),
20.0	bracing.	, арриод от то о о о		51=180 (LC 1), 52=180 (LC 25),
WEBS	1 Row at midpt	17-40, 16-41, 15-42,		53=182 (LC 1), 54=174 (LC 25),
		18-39, 19-38		55=210 (LC 25)

		10-39, 19-30		• • •
REACTIONS	(size)	2=48-0-0, 29=48-0-0, 30=48-0-0,	FORCES	(lb) - Maximum Compression/Maximum
	(6.26)	31=48-0-0, 32=48-0-0, 33=48-0-0, 34=48-0-0, 35=48-0-0, 36=48-0-0, 38=48-0-0, 39=48-0-0, 40=48-0-0, 41=48-0-0, 42=48-0-0, 44=48-0-0.	TOP CHORD	Tension 1-2=0/0, 2-3=-207/118, 3-4=-163/120, 4-5=-142/137, 5-6=-121/154, 6-7=-100/171, 7-8=-79/193, 8-10=-89/221, 10-11=-100/249,
		45=48-0-0, 46=48-0-0, 47=48-0-0, 48=48-0-0, 50=48-0-0, 51=48-0-0, 52=48-0-0, 53=48-0-0, 54=48-0-0, 55=48-0-0		11-12=-112/277, 12-13=-123/305, 13-14=-135/333, 14-15=-146/361, 15-16=-158/391, 16-17=-168/413, 17-18=-173/412, 18-19=-159/355,
		33=46-0-0		

55=-76 (LC 12)

19-20=-144/294, 20-21=-129/256, Max Horiz 2=185 (LC 16) 21-22=-115/221, 22-24=-100/185, Max Uplift 2=-46 (LC 13), 30=-80 (LC 13), 24-25=-85/149, 25-26=-71/113, 31=-47 (LC 13), 32=-52 (LC 13), 26-27=-56/77, 27-28=-43/48, 28-29=-40/21 33=-51 (LC 13), 34=-51 (LC 13), **BOT CHORD** 2-55=-40/64, 54-55=-40/64, 53-54=-40/64, 35=-51 (LC 13), 36=-50 (LC 13), 52-53=-40/64, 51-52=-40/64, 50-51=-40/64 38=-57 (LC 13), 39=-41 (LC 13), 48-50=-40/64, 47-48=-40/64, 46-47=-40/64, 41=-39 (LC 12), 42=-50 (LC 8), 45-46=-40/64, 44-45=-40/64, 42-44=-40/64, 44=-45 (LC 12), 45=-46 (LC 8), 41-42=-40/64, 40-41=-40/64, 39-40=-40/64, 46=-46 (LC 12), 47=-46 (LC 8), 38-39=-40/64, 36-38=-40/64, 35-36=-40/64, 48=-46 (LC 12), 50=-46 (LC 8), 34-35=-40/64, 33-34=-40/64, 32-33=-40/64, 51=-46 (LC 12), 52=-46 (LC 8), 31-32=-40/64, 30-31=-40/64, 29-30=-40/64 53=-46 (LC 12), 54=-46 (LC 8),

**WEBS** 17-40=-187/39, 16-41=-149/119, 15-42=-139/123, 14-44=-140/71, 13-45=-140/70, 12-46=-140/70, 11-47=-140/70, 10-48=-140/70, 8-50=-140/70, 7-51=-140/70, 6-52=-140/70, 5-53=-141/70, 4-54=-137/69, 3-55=-161/101, 18-39=-149/123, 19-38=-139/134, 20-36=-140/75, 21-35=-140/75, 22-34=-140/75, 24-33=-140/75, 25-32=-139/75, 26-31=-143/74, 27-30=-129/87

### **NOTES**

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



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### ontinued on page 2

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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	C4	Roof Special Supported Gable	1	1	Job Reference (optional)	163424355

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:51 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 2

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 28-5-14, Corner(3R) 28-5-14 to 33-5-14, Exterior(2N) 33-5-14 to 47-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 3x4 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.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	D1	Roof Special	4	1	Job Reference (optional)	163424356

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:51 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

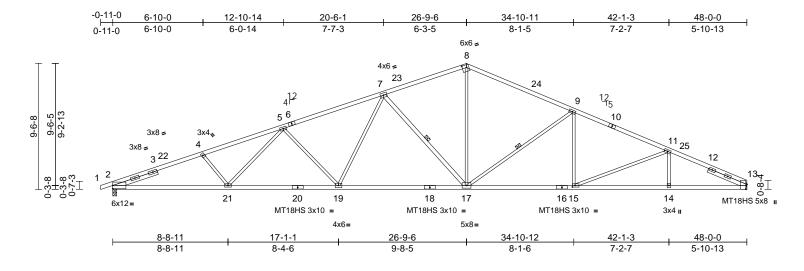


Plate Offsets (X, Y): [8:0-3-15,0-2-8], [13:0-4-7,Edge], [15:0-2-8,0-1-8]

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	0.84	Vert(LL)	-0.40	19	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.85	17-19	>680	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.25	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 217 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP 2400F 2.0E \*Except\* 6-8:2x4 SP

1650F 1.5E

**BOT CHORD** 2x4 SP 2400F 2.0E \*Except\* 18-20.18-16:2x4 SP 1650F 1.5E

WEBS 2x3 SPF No.2 \*Except\* 17-7:2x4 SP No.2 SLIDER Left 2x4 SPF No.3 -- 3-6-9, Right 2x4 SPF

No.3 -- 3-2-1

**BRACING** 

WEBS

TOP CHORD Structural wood sheathing directly applied or

2-7-15 oc purlins.

**BOT CHORD** Rigid ceiling directly applied or 8-0-10 oc

bracing.

1 Row at midpt 7-17, 9-17

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

Max Horiz 2=169 (LC 16)

Max Uplift 2=-399 (LC 8), 13=-285 (LC 13)

Max Grav 2=2225 (LC 1), 13=2159 (LC 1) (lb) - Maximum Compression/Maximum

**FORCES** 

TOP CHORD

Tension

1-2=0/0, 2-4=-5293/1071, 4-5=-5048/1039, 5-7=-4252/924, 7-8=-3031/757,

8-9=-3160/765, 9-11=-3969/870

11-13=-4442/927

**BOT CHORD** 2-21=-917/4876, 19-21=-788/4481,

17-19=-572/3583, 15-17=-602/3614, 14-15=-743/3934, 13-14=-743/3934

4-21=-234/178, 8-17=-312/1653,

**WEBS** 5-21=-53/454, 7-19=-119/864,

7-17=-1207/360, 5-19=-798/292,

11-14=0/227, 9-15=0/398, 9-17=-1031/325,

11-15=-432/172

### 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 26-9-6, Exterior(2R) 26-9-6 to 31-9-6, Interior (1) 31-9-6 to 48-0-0 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
- All plates are MT20 plates unless otherwise indicated.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 13 SPF No.3 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 6,2024

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

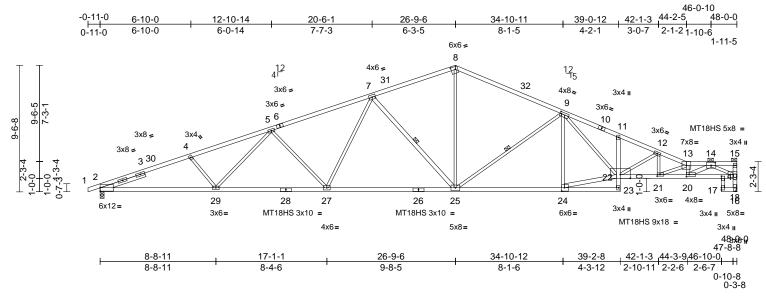
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	D2	Roof Special	10	1	Job Reference (optional)	63424357

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S.Nov. 1 2023 MiTek Industries. Inc. Fri Feb 02 17:14:52 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:86.8

Plate Offsets (X, Y): [8:0-3-15,0-2-8], [9:0-1-4,0-1-12], [14:0-3-12,0-2-8], [18:0-4-8,0-2-8], [19:0-2-0,Edge]	], [20:0-2-8,0-2-0], [21:0-2-8,0-1-8], [24:0-2-8,0-3-0]
--	---

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.49	24-25	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-1.00	25-27	>571	180	MT18HS	244/190
BCLL	0.0	Rep Stress Incr	NO	WB	0.92	Horz(CT)	0.41	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 236 lb	FT = 20%

LUMBER TOP CHORD 2x4 SP 2400F 2.0E \*Except\* 10-13:2x4 SP No.2, 13-15,6-8:2x4 SP 1650F 1.5E 2x4 SP 2400F 2.0E \*Except\* 23-11,17-16:2x4 **BOT CHORD** SP No.2, 19-17:2x3 SPF No.2, 26-23,26-28:2x4 SP 1650F 1.5E

2x3 SPF No.2 \*Except\* 25-7,22-24,16-15,20-14:2x4 SP No.2

SLIDER Left 2x4 SPF No.3 -- 3-6-9

**BRACING** 

TOP CHORD

BOT CHORD

TOP CHORD

WFBS

Structural wood sheathing directly applied, except

2-0-0 oc purlins (2-2-4 max.): 13-15. Rigid ceiling directly applied or 6-0-0 oc

bracing.

WFBS 1 Row at midpt 7-25, 9-25 REACTIONS 2=0-3-8, 16= Mechanical (size)

Max Horiz 2=216 (LC 12)

Max Uplift 2=-397 (LC 8), 16=-285 (LC 13)

Max Grav 2=2218 (LC 1), 16=2153 (LC 1) (lb) - Maximum Compression/Maximum **FORCES** 

Tension

1-2=0/0. 2-4=-5275/1063. 4-5=-5030/1030.

5-7=-4232/915, 7-8=-3012/748, 8-9=-3137/747, 9-11=-5272/1132

11-12=-5396/1104, 12-13=-6411/1291, 13-14=-6938/1396, 14-15=-80/10

**BOT CHORD** 2-29=-988/4859, 27-29=-879/4463 25-27=-669/3564, 24-25=-665/3555,

23-24=-70/328, 22-23=0/60, 11-22=-110/71, 21-22=-1178/5924, 20-21=-1440/7145, 19-20=-787/3668, 18-19=-797/3747, 17-19=-35/11, 16-17=-78/10

**WEBS** 4-29=-234/178, 5-29=-53/455,

7-27=-119/863, 5-27=-799/293, 8-25=-296/1628, 7-25=-1206/360, 12-21=-117/741, 9-24=-662/225, 9-25=-987/313, 22-24=-612/3318,

12-22=-1149/265, 9-22=-412/2005 13-21=-1347/289, 16-18=-2099/457, 15-18=-80/36, 13-20=-1951/418,

14-20=-697/3743, 14-18=-4086/884

### **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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 26-9-6. Exterior(2R) 26-9-6 to 31-9-6, Interior (1) 31-9-6 to 47-10-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearings are assumed to be: Joint 2 SP 2400F 2.0E crushing capacity of 805 psi, Joint 16 SPF No.3 crushing capacity of 425 psi.
- Refer to girder(s) for truss to truss connections.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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



February 6,2024

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

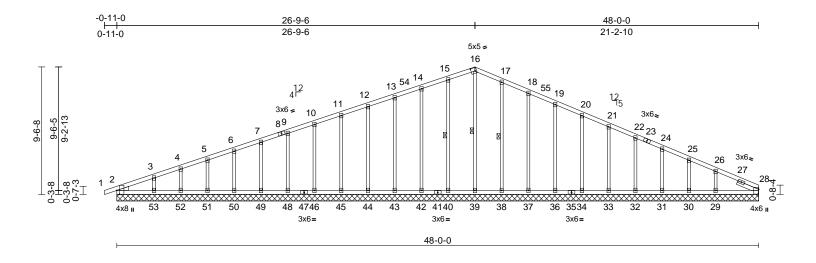
a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

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	Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
١	P240076-01	D3	Roof Special Supported Gable	2	1	Job Reference (optional)	163424358

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:53  $ID: kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

Page: 1



Scale = 1:86.1

Plate Offsets (X, Y): [2:0-3-8,Edge], [16:0-3-7,0-3-0], [28:0-4-3,0-0-7]												
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	0.16	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.22	Horz(CT)	0.01	28	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 240 lb	FT = 20%

LUMBER			Max Grav	2=190 (LC 1), 28=133 (LC 1),
TOP CHORD	2x4 SP No.2			29=285 (LC 26), 30=145 (LC 1),
BOT CHORD	2x4 SP No.2			31=189 (LC 26), 32=178 (LC 1),
OTHERS	2x3 SPF No.2			33=180 (LC 26), 34=180 (LC 26),
WEDGE	Left: 2x4 SP No.2			36=180 (LC 1), 37=180 (LC 26),
SLIDER	Right 2x4 SPF No.3 1-8-10			38=188 (LC 26), 39=189 (LC 22),
BRACING				40=188 (LC 25), 42=180 (LC 25),
TOP CHORD	Structural wood sheathing directly applied or			43=180 (LC 1), 44=180 (LC 25),
TOT OTTOTAL	6-0-0 oc purlins.			45=180 (LC 1), 46=180 (LC 25),
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc			48=180 (LC 25), 49=180 (LC 1),
20.0	bracing.			50=179 (LC 25), 51=185 (LC 1),
WEBS	1 Row at midpt 16-39, 15-40, 17-38			52=160 (LC 25), 53=240 (LC 25)
PEACTIONS		FORCES	(lb) - Max	timum Compression/Maximum

WEBS	1 Row at	midpt	16-39, 15-40, 17-38	
REACTIONS	(size)	2=48-0-0,	28=48-0-0, 29=48-0-0,	
		30=48-0-0	0, 31=48-0-0, 32=48-0-0,	
		33=48-0-0	0, 34=48-0-0, 36=48-0-0,	
		37=48-0-0	0, 38=48-0-0, 39=48-0-0,	
		40=48-0-0	0, 42=48-0-0, 43=48-0-0,	
		44=48-0-0	0, 45=48-0-0, 46=48-0-0,	
		48=48-0-0	0, 49=48-0-0, 50=48-0-0,	
		51=48-0-0	0, 52=48-0-0, 53=48-0-0	
	May Horiz	2-169 (1 (	12)	

	51=48-0-0, 52=48-0-0, 53=48-0-0
Max Horiz	2=169 (LC 12)
Max Uplift	2=-25 (LC 13), 29=-107 (LC 13),
	30=-33 (LC 13), 31=-55 (LC 13),
	32=-50 (LC 13), 33=-51 (LC 13),
	34=-51 (LC 13), 36=-50 (LC 13),
	37=-56 (LC 13), 38=-44 (LC 13),
	40=-41 (LC 12), 42=-49 (LC 8),
	43=-45 (LC 12), 44=-46 (LC 8),
	45=-46 (LC 8), 46=-46 (LC 12),
	48=-46 (LC 8), 49=-46 (LC 12),
	50=-46 (LC 8), 51=-47 (LC 12),
	52=-42 (LC 8), 53=-83 (LC 12)

	43=180 (LC 1), 44=180 (LC 25),
	45=180 (LC 1), 46=180 (LC 25),
	48=180 (LC 25), 49=180 (LC 1),
	50=179 (LC 25), 51=185 (LC 1),
	52=160 (LC 25), 53=240 (LC 25)
FORCES	(lb) - Maximum Compression/Maximum
	Tension
TOP CHORD	1-2=0/0, 2-3=-208/85, 3-4=-155/87,
	4-5=-128/96, 5-6=-107/109, 6-7=-91/126,
	7-9=-76/142, 9-10=-60/159, 10-11=-65/176,
	11-12=-76/193, 12-13=-88/221,
	13-14=-99/248, 14-15=-111/278,
	15-16=-122/302, 16-17=-125/297,
	17-18=-111/248, 18-19=-96/211,
	19-20=-81/175, 20-21=-66/139,
	21-22=-52/103, 22-24=-52/67, 24-25=-52/36,
	25-26=-76/19, 26-28=-119/36
BOT CHORD	2-53=-38/138, 52-53=-38/138,
	51-52=-38/138, 50-51=-38/138,
	49-50=-38/138, 48-49=-38/138,
	46-48=-38/138, 45-46=-38/138,
	44-45=-38/138, 43-44=-38/138,
	42-43=-38/138, 40-42=-38/138,
	39-40=-38/138, 38-39=-38/138,
	37-38=-38/138, 36-37=-38/138,
	34-36=-38/138, 33-34=-38/138,
	32-33=-38/138, 31-32=-38/138,
	30-31=-38/138, 29-30=-38/138,
	28-29=-38/138

WEBS	16-39=-149/21, 15-40=-148/120, 14-42=-140/123, 13-43=-140/70, 12-44=-140/70, 11-45=-140/70, 10-46=-140/70, 9-48=-140/70, 7-49=-140/70, 6-50=-139/70, 5-51=-143/71, 4-52=-127/65, 3-53=-179/109, 17-38=-148/129, 18-37=-140/131, 19-36=-140/76,
	22-32=-139/74, 24-31=-145/79, 25-30=-118/59, 26-29=-211/127

### 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 26-9-6, Corner(3R) 26-9-6 to 31-9-6, Exterior(2N) 31-9-6 to 48-0-0 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



February 6,2024

ontinued on page 2

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

Design Value to use only with rease contractors. This design is based with your parameters shown, and is not an individual building design in the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	D3	Roof Special Supported Gable	2	1	Job Reference (optional)	163424358

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:53  $ID: kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

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 3x4 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.

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

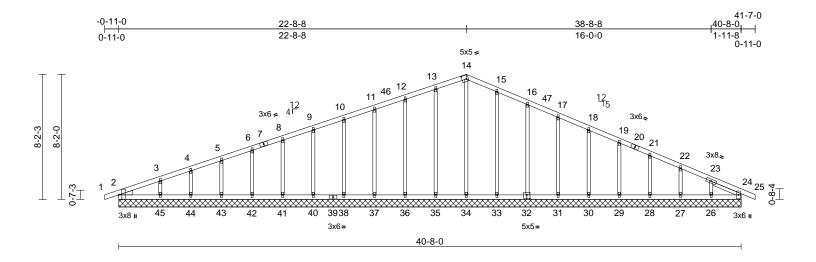
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Page: 2

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	E1	Roof Special Supported Gable	4	1	Job Reference (optional)	163424359

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:54 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:75.3

Loading	(psf)	Spacing	1-11-4	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(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.01	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 195 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
WEDGE	Left: 2x4 SP No.2
RRACING	

### TOP CHORD

LUMBER

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=40-8	3-0, 2	24=4	0-8-0,	26=4	<del>1</del> 0-8	-0,
		27=40	-8-0,	28=	40-8-0	0, 29=	-40-	8-0,
		30=40	-8-0,	31=	40-8-0	0, 32=	-40-	8-0,
		00 40	0 0	0.4	400	0 0 5	40	0 0

33=40-8-0, 34=40-8-0, 35=40-8-0, 36=40-8-0, 37=40-8-0, 38=40-8-0, 40=40-8-0, 41=40-8-0, 42=40-8-0, 43=40-8-0, 44=40-8-0, 45=40-8-0

Max Horiz 2=139 (LC 12) Max Uplift 2=-20 (LC 13), 24=-6 (LC 9), 26=-71 (LC 13), 27=-49 (LC 13), 28=-50 (LC 13), 29=-49 (LC 13), 30=-50 (LC 13), 31=-48 (LC 13), 32=-52 (LC 13), 33=-46 (LC 13), 35=-42 (LC 12), 36=-47 (LC 8), 37=-44 (LC 12), 38=-44 (LC 8), 40=-44 (LC 8), 41=-44 (LC 12), 42=-44 (LC 8), 43=-46 (LC 12), 44=-41 (LC 8), 45=-77 (LC 12)

Max Grav 2=177 (LC 1), 24=155 (LC 1), 26=170 (LC 26), 27=175 (LC 26), 28=174 (LC 1), 29=174 (LC 1), 30=174 (LC 26), 31=175 (LC 1), 32=173 (LC 26), 33=182 (LC 26), 34=174 (LC 22), 35=183 (LC 25), 36=174 (LC 25), 37=174 (LC 1), 38=174 (LC 25), 40=174 (LC 1), 41=175 (LC 25), 42=173 (LC 25),

43=179 (LC 1), 44=157 (LC 25), 45=227 (LC 25)

(lb) - Maximum Compression/Maximum

Tension

**FORCES** 

TOP CHORD 1-2=0/0, 2-3=-171/69, 3-4=-121/72, 4-5=-95/81, 5-6=-76/93, 6-8=-61/110, 8-9=-46/126, 9-10=-51/142, 10-11=-62/168,

11-12=-73/195, 12-13=-84/223, 13-14=-95/247, 14-15=-97/242, 15-16=-83/194, 16-17=-69/159,

17-18=-55/124, 18-19=-41/89, 19-21=-39/54, 21-22=-47/28, 22-23=-67/21, 23-24=-117/41,

24-25=0/0

**BOT CHORD** 2-45=-36/121, 44-45=-36/121,

43-44=-36/121, 42-43=-36/121, 41-42=-36/121, 40-41=-36/121, 38-40=-36/121, 37-38=-36/121,

36-37=-36/121, 35-36=-36/121 34-35=-36/121, 33-34=-36/121,

31-33=-36/121, 30-31=-35/120, 29-30=-35/120, 28-29=-35/120, 27-28=-35/120, 26-27=-35/120,

24-26=-35/120

**WEBS** 14-34=-135/7, 13-35=-144/120, 12-36=-135/118, 11-37=-136/68,

10-38=-136/68, 9-40=-136/68, 8-41=-136/68, 6-42=-135/67, 5-43=-138/69, 4-44=-125/63,

3-45=-170/101, 15-33=-144/128, 16-32=-134/126, 17-31=-136/73, 18-30=-136/73, 19-29=-136/73,

21-28=-136/73, 22-27=-136/73,

23-26=-132/92

### **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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 22-8-8, Corner(3R) 22-8-8 to 27-8-8, Exterior(2N) 27-8-8 to 41-7-0 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



February 6,2024

### ontinued on page 2

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



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	E1	Roof Special Supported Gable	4	1	Job Reference (optional)	163424359

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:54  $ID: kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff$ 

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.

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.

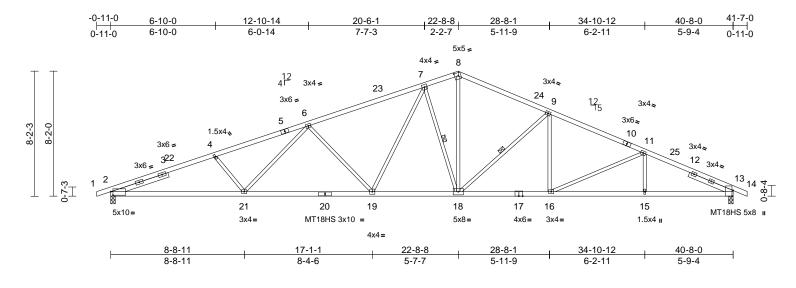
LOAD CASE(S) Standard

Page: 2

Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	E2	Roof Special	8	1	Job Reference (optional)	163424360

Run: 8 63 S. Nov. 1 2023 Print: 8 630 S. Nov. 1 2023 MiTek Industries. Inc. Fri Feb 02 17:14:55 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:75.3

Plate Offsets (X, Y)	: [2:0-1-12,0-2	-12], [8:0-2-15,0	0-2-8], [13:0-4-7,Edge]
----------------------	-----------------	-------------------	-------------------------

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.91	Vert(LL)	-0.34	19-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.68	19-21	>716	180	MT18HS	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.82	Horz(CT)	0.21	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 184 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E

2x4 SP 1650F 1.5E \*Except\* 0-0:2x4 SP **BOT CHORD** 

No.2

WFBS 2x3 SPF No 2

**SLIDER** Left 2x4 SPF No.3 -- 3-11-3, Right 2x4 SPF

No.3 -- 3-1-3

**BRACING** 

WFBS

TOP CHORD Structural wood sheathing directly applied or

2-3-9 oc purlins.

BOT CHORD Rigid ceiling directly applied or 8-2-6 oc

bracing

7-18. 9-18 1 Row at midpt

REACTIONS (size)

2=0-3-8, 13=0-3-8

Max Horiz 2=144 (LC 12)

Max Uplift 2=-344 (LC 8), 13=-264 (LC 13)

Max Grav 2=1894 (LC 1), 13=1894 (LC 1)

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

Tension

1-2=0/0. 2-4=-4371/905. 4-6=-4128/869.

TOP CHORD 6-7=-3246/749, 7-8=-2517/675,

8-9=-2634/661, 9-11=-3231/722

11-13=-3680/763, 13-14=0/0

**BOT CHORD** 2-21=-762/4030, 19-21=-626/3551 18-19=-393/2633, 16-18=-487/2935

15-16=-596/3241, 13-15=-596/3241

4-21=-276/186, 8-18=-389/1572, 6-19=-837/296, 7-18=-1016/316,

6-21=-55/525, 11-16=-414/164,

9-18=-816/250, 9-16=0/355, 11-15=0/210,

7-19=-148/847

NOTES

**WEBS** 

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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-11-0 to 4-1-0, Interior (1) 4-1-0 to 22-8-8, Exterior(2R) 22-8-8 to 27-8-8, Interior (1) 27-8-8 to 41-7-0 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
- 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.
- 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



February 6,2024

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

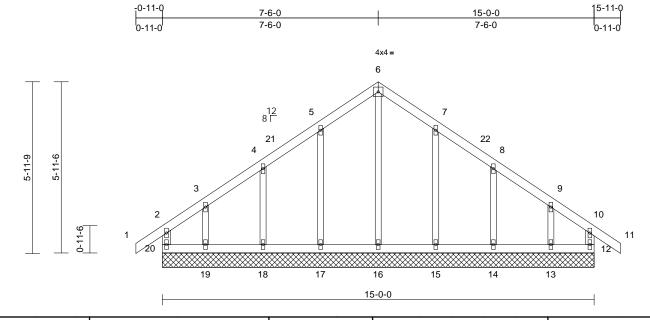
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	G1	Common Supported Gable	2	1	Job Reference (optional)	163424361

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:55 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 72 lb	FT = 20%

### LUMBER

Scale = 1:40

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

### BRACING

TOP CHORD Sheathed or 6-0-0 oc purlins, except end

verticals.

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

REACTIONS (size)

12=15-0-0, 13=15-0-0, 14=15-0-0, 15=15-0-0, 16=15-0-0, 17=15-0-0, 18=15-0-0, 19=15-0-0, 20=15-0-0

Max Horiz 20=180 (LC 11)

Max Uplift 12=-53 (LC 9), 13=-105 (LC 13), 14=-72 (LC 13), 15=-74 (LC 13),

17=-75 (LC 12), 18=-70 (LC 12), 19=-111 (LC 12), 20=-79 (LC 8)

Max Grav 12=155 (LC 19), 13=178 (LC 20), 14=189 (LC 20), 15=197 (LC 20),

16=195 (LC 22), 17=198 (LC 19), 18=187 (LC 25), 19=190 (LC 19),

20=176 (LC 20)

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

Tension TOP CHORD

2-20=-143/91, 1-2=0/41, 2-3=-110/106, 3-4=-80/85, 4-5=-78/165, 5-6=-117/243, 6-7=-117/243, 7-8=-77/165, 8-9=-59/80, 9-10=-80/76, 10-11=0/41, 10-12=-133/91

**BOT CHORD** 

19-20=-83/90, 18-19=-83/90, 17-18=-83/90, 16-17=-83/90, 15-16=-83/90, 14-15=-83/90,

13-14=-83/90, 12-13=-83/90 WEBS 6-16=-181/31, 5-17=-157/117

4-18=-149/152, 3-19=-135/128 7-15=-156/117, 8-14=-150/152,

9-13=-128/128

### 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 7-6-0, Corner(3R) 7-6-0 to 12-6-0, Exterior(2N) 12-6-0 to 15-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable. or consult qualified building designer as per ANSI/TPI 1. All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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



February 6,2024

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

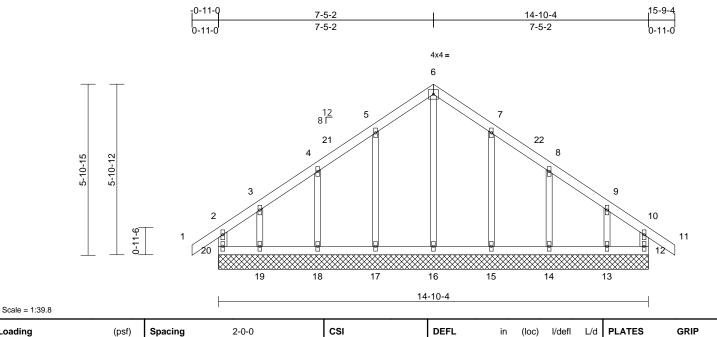
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	G1A	Common Supported Gable	1	1	Job Reference (optional)	163424362

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:56 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading

TCDI

**BCLL** 

**BCDL** 

TCLL (roof)

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

### BRACING

TOP CHORD Sheathed or 6-0-0 oc purlins, except end

25.0

10.0

0.0

10.0

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Code

1.15

1 15

NO

IRC2018/TPI2014

verticals.

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

bracing.

REACTIONS (size)

12=14-10-4, 13=14-10-4, 14=14-10-4, 15=14-10-4, 16=14-10-4, 17=14-10-4, 18=14-10-4, 19=14-10-4, 20=14-10-4

Max Horiz 20=-179 (LC 10)

12=-55 (LC 9), 13=-105 (LC 13), Max Uplift 14=-72 (LC 13), 15=-74 (LC 13),

17=-75 (LC 12), 18=-71 (LC 12), 19=-112 (LC 12), 20=-82 (LC 8)

18=187 (LC 19), 19=187 (LC 19),

Max Grav 12=154 (LC 19), 13=175 (LC 20), 14=190 (LC 20), 15=197 (LC 20), 16=194 (LC 22), 17=198 (LC 19),

20=176 (LC 20)

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

Tension

2-20=-143/89, 1-2=0/41, 2-3=-110/107, TOP CHORD 3-4=-79/85, 4-5=-76/162, 5-6=-116/241,

6-7=-116/241, 7-8=-76/162, 8-9=-59/77, 9-10=-81/76, 10-11=0/41, 10-12=-131/88 19-20=-82/90, 18-19=-82/90, 17-18=-82/90,

BOT CHORD 16-17=-82/90, 15-16=-82/90, 14-15=-82/90,

13-14=-82/90, 12-13=-82/90 6-16=-179/29, 5-17=-157/118

4-18=-150/154, 3-19=-132/125, 7-15=-156/118, 8-14=-151/154,

9-13=-125/126

Unbalanced roof live loads have been considered for this design

0.10

0.06

0.13

Vert(LL)

Vert(CT)

Horz(CT)

n/a

n/a

0.00

n/a 999

n/a 999

n/a n/a

12

MT20

Weight: 71 lb

244/190

FT = 20%

TC

BC

WB

Matrix-R

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-11-0 to 4-1-0, Exterior(2N) 4-1-0 to 7-5-2, Corner(3R) 7-5-2 to 12-5-2, Exterior(2N) 12-5-2 to 15-9-4 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
- Truss designed for wind loads in the plane of the truss only. For study exposed to wind (normal to the face). see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- 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



February 6,2024

NOTES

WFBS

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 - Osage Lot 43	
P240076-01	G2	Common Girder	2	3	Job Reference (optional)	163424363

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:56 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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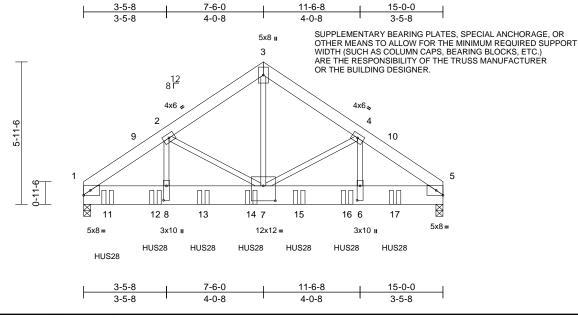


Plate Offsets (X, Y): [6:0-7-4,0-1-8], [7:0-6-0,0-7-8], [8:0-7-4,0-1-8]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.23	Vert(LL)	-0.05	7-8	>999	240	MT20	185/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.90	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 281 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Sheathed or 6-0-0 oc purlins.

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

bracing

**REACTIONS** (size) 1=0-3-8, (req. 0-4-12), 5=0-3-8,

(req. 0-4-3) Max Horiz 1=143 (LC 32)

Max Uplift 1=-1193 (LC 12), 5=-1052 (LC 13)

Max Grav 1=8643 (LC 1), 5=7625 (LC 1)

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

Tension

TOP CHORD 1-2=-10445/1493, 2-3=-7588/1148, 3-4=-7588/1148, 4-5=-10338/1478

**BOT CHORD** 1-8=-1169/8174, 7-8=-1173/8203,

6-7=-1112/8105, 5-6=-1108/8077

2-8=-424/3292, 2-7=-2266/415,

3-7=-1123/7876, 4-7=-2150/402,

4-6=-404/3182

### NOTES

WEBS

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

Top chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 4 rows

staggered at 0-4-0 oc. Web connected as follows: 2x3 - 1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-6-0, Exterior(2R) 7-6-0 to 12-6-0, Interior (1) 12-6-0 to 14-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- WARNING: Required bearing size at joint(s) 1, 5 greater than input bearing size
- All bearings are assumed to be HF No.2 crushing capacity of 405 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HUS28 (22-16d Girder, 4-16d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-0-0 from the left end to 13-0-0 to connect truss(es) to back 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: 11=-2141 (B), 12=-2133 (B), 13=-2133 (B), 14=-2133 (B), 15=-2133 (B), 16=-2133 (B),

17=-2139 (B)



February 6,2024

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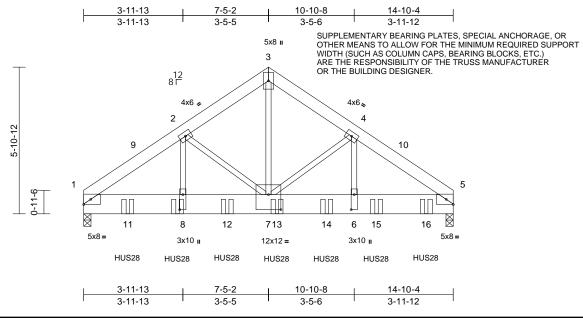
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	G2A	Common Girder	1	3	Job Reference (optional)	163424364

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:57 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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Scale = 1:46.3

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	0.25	Vert(LL)	-0.05	7-8	>999	240	MT20	185/144
TCDL	10.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.09	7-8	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.89	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 279 lb	FT = 20%

### LUMBER

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

**BRACING** 

TOP CHORD Sheathed or 6-0-0 oc purlins.

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

bracing.

**REACTIONS** (size) 1=0-3-8, (req. 0-4-4), 5=0-3-8, (req. 0-4-11)

1=142 (LC 11)

Max Horiz Max Uplift 1=-1021 (LC 12), 5=-1122 (LC 13)

Max Grav 1=7791 (LC 1), 5=8564 (LC 1)

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

Tension

1-2=-10106/1373, 2-3=-7483/1081, 3-4=-7485/1081, 4-5=-10143/1375

**BOT CHORD** 1-8=-1066/7957. 7-8=-1069/7983.

6-7=-1030/8023, 5-6=-1027/7996

2-8=-400/3344, 2-7=-2301/403,

3-7=-1067/7769, 4-7=-2350/410,

4-6=-404/3379

### NOTES

WEBS

TOP CHORD

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

Top chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 4 rows

staggered at 0-4-0 oc.

Web connected as follows: 2x3 - 1 row at 0-9-0 oc, Except member 2-8 2x3 - 1 row at 0-4-0 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 7-5-2, Exterior(2R) 7-5-2 to 12-5-2, Interior (1) 12-5-2 to 14-8-8 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.
- WARNING: Required bearing size at joint(s) 1, 5 greater than input bearing size
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Use Simpson Strong-Tie HUS28 (22-16d Girder, 4-16d Truss, Single Ply Girder) or equivalent spaced at 2-0-0 oc max. starting at 1-9-4 from the left end to 13-9-4 to connect truss(es) to back 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=-2133 (B), 11=-2190 (B), 12=-2133 (B), 13=-2133 (B), 14=-2133 (B), 15=-2133 (B),

16=-2191 (B)



February 6,2024

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

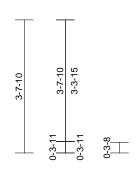


Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	V1	Valley	2	1	Job Reference (optional)	3424365

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:57 ID:kkw6VMCTKypljEPYbt576Oz\_rGt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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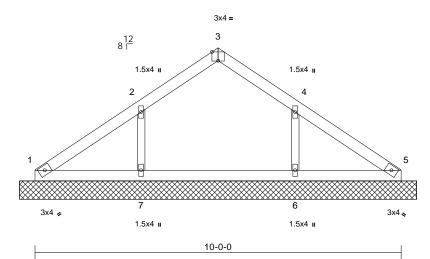


Plate Offsets (X, Y): [3:0-2-0,Edge], [4:0-0-0,Edge]

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	0.11	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	NO	WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 35 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=10-10-1, 5=10-10-1, 6=10-10-1, 7=10-10-1

Max Horiz 1=90 (LC 9)

Max Uplift 6=-96 (LC 13), 7=-98 (LC 12) 1=152 (LC 1), 5=152 (LC 1), 6=299 Max Grav

(LC 20), 7=301 (LC 19) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-153/33, 2-3=-149/64, 3-4=-149/64,

4-5=-151/30

**BOT CHORD** 1-7=-24/111, 6-7=-24/111, 5-6=-24/111

2-7=-210/161, 4-6=-209/160 WEBS

### 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=0.96; 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.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 6,2024

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

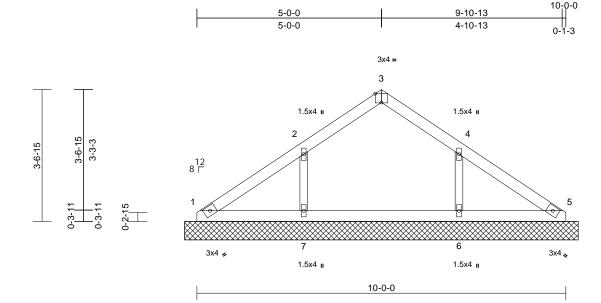
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	V2	Valley	2	1	Job Reference (optional)	163424366

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:58 ID:7VegtlUg48?DqlhT5TOJ?Mz8aV1-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:31.2

Plate Offsets (X, Y):	[3:0-2-0,Edge],	[4:0-0-0,Edge]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.11	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	NO	WB	0.04	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 35 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=10-8-0, 5=10-8-0, 6=10-8-0, 7=10-8-0

Max Horiz 1=-91 (LC 8)

Max Uplift 6=-100 (LC 13), 7=-101 (LC 12) 1=150 (LC 1), 5=150 (LC 1), 6=301 Max Grav

(LC 20), 7=303 (LC 19)

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

1-2=-151/33, 2-3=-149/67, 3-4=-149/67,

TOP CHORD 4-5=-150/30

1-7=-24/111, 6-7=-24/111, 5-6=-24/111

**BOT CHORD** WEBS 2-7=-213/165. 4-6=-211/165

### 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.
- \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



February 6,2024

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

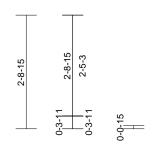


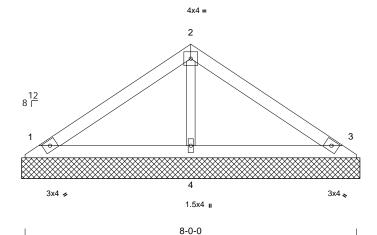
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	V3	Valley	2	1	Job Reference (optional)	163424367

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:58 ID:ty0?Hnm2CiRkdX6xatJFZiz8aVz-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







Scale = 1:27.8

Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.04	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 27 lb	FT = 20%

### LUMBER

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=8-2-0, 3=8-2-0, 4=8-2-0

Max Horiz 1=68 (LC 11)

Max Uplift 1=-46 (LC 12), 3=-55 (LC 13) Max Grav 1=184 (LC 1), 3=184 (LC 1), 4=286

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-116/68, 2-3=-110/68 BOT CHORD 1-4=-14/54, 3-4=-14/54

WFBS 2-4=-195/101

### 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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.

LOAD CASE(S) Standard



February 6,2024

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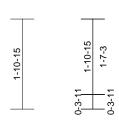


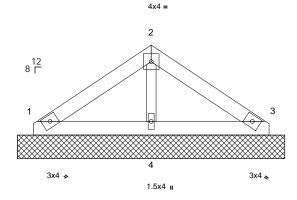
Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	V4	Valley	2	1	Job Reference (optional)	163424368

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:58 ID:Lt2xwJZ?zoQ?i4tteW0UwKz8aWD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1







5-0-0

Scale = 1:24.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.06	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.02	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

### LUMBER

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

5-8-12 oc purlins.

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

bracing.

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

Max Horiz 1=44 (LC 9)

Max Uplift 1=-30 (LC 12), 3=-36 (LC 13) Max Grav 1=120 (LC 1), 3=120 (LC 1), 4=184

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-76/53, 2-3=-72/53 BOT CHORD 1-4=-9/36, 3-4=-9/36

WEBS 2-4=-126/82

### 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.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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



February 6,2024

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

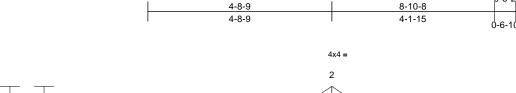
besign value to use only with recks colline tools. This design is based only upon parameters shown, and is not an individual busining denipolinit, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria, and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcscomponents.com)

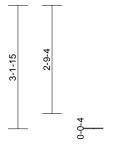
RELEAST OR CONTRUCTION
AS NOTED ON LANS REVIEW
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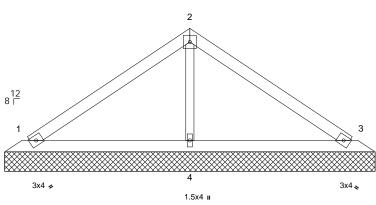
Job		Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-	-01	V5	Valley	1	1	Job Reference (optional)	163424369

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Page: 1







9-5-2

Scale = 1:29.5

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	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.05	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-SH							Weight: 31 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=9-5-14, 3=9-5-14, 4=9-5-14

Max Horiz 1=-77 (LC 8)

Max Uplift 1=-35 (LC 12), 3=-44 (LC 13),

4=-25 (LC 12)

Max Grav 1=187 (LC 1), 3=187 (LC 1), 4=363

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-145/72, 2-3=-145/72

BOT CHORD 1-4=-15/64, 3-4=-15/64

WEBS 2-4=-217/88

### 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=0.96; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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

LOAD CASE(S) Standard



February 6,2024

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

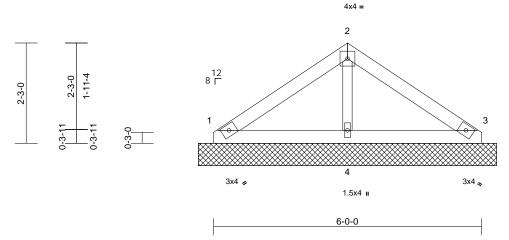
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not



Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	V6	Valley	1	1	Job Reference (optional)	163424370

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Scale = 1:25.8

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	0.20	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	NO	WB	0.03	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%

### LUMBER

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 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=6-8-3, 3=6-8-3, 4=6-8-3

Max Horiz 1=-54 (LC 8)

Max Uplift 1=-36 (LC 12), 3=-43 (LC 13) Max Grav 1=145 (LC 1), 3=145 (LC 1), 4=224

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-92/62, 2-3=-87/62

BOT CHORD 1-4=-11/43, 3-4=-11/43

WEBS 2-4=-152/94

### NOTES

- ) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; cnd 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.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 4-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- 8) All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



Page: 1

February 6,2024

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Job	Truss	Truss Type	Qty	Ply	Roof - Osage Lot 43	
P240076-01	V7	Valley	1	1	Job Reference (optional)	63424371

Run: 8.63 S Nov 1 2023 Print: 8.630 S Nov 1 2023 MiTek Industries, Inc. Fri Feb 02 17:14:59 ID:c7yuCyLHpTPNIQT46p9QEqz8aSd-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1

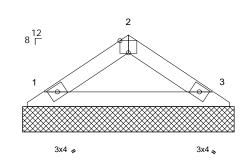


3x4 =









4-0-0

Scale = 1:22.8

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

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.Ó	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.14	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0*	Rep Stress Incr	NO	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 12 lb	FT = 20%

### LUMBER

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

### BRACING

TOP CHORD Structural wood sheathing directly applied or 4-2-15 oc purlins.

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

bracing.

**REACTIONS** (size) 1=4-2-3, 3=4-2-3

Max Horiz 1=-31 (LC 8)

Max Uplift 1=-21 (LC 12), 3=-21 (LC 13) Max Grav 1=148 (LC 1), 3=148 (LC 1)

FORCES (Ib) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-129/89, 2-3=-129/89

BOT CHORD 1-3=-33/86

### **NOTES**

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

- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 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



February 6,2024

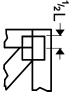
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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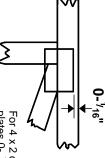


## Symbols

# PLATE LOCATION AND ORIENTATION



offsets are indicated. and fully embed teeth Center plate on joint unless x, y Apply plates to both sides of truss Dimensions are in ft-in-sixteenths



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

connector plates. required direction of slots in This symbol indicates the

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

### PLATE SIZE



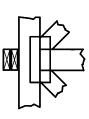
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



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

### **BEARING**



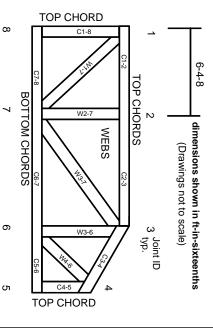
Min size shown is for crushing only reaction section indicates joint number/letter where bearings occur (supports) occur. Icons vary but Indicates location where bearings

## Industry Standards:

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

DSB-22: ANSI/TPI1:

## Numbering System



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

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

# Product Code Approvals

**ICC-ES Reports** 

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

# Design General Notes

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

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

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# Mile

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

## Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.

Ņ

Never exceed the design loading shown and never stack materials on inadequately braced trusses.

ω

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

'n

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

œ

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

9

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

General Safety Not Could Cause Property

SE FOR CONSTRUCT DIED ON PLANS BEV
VELOPMENT SERVICE
EE'S SUMMIT, MISSOU

20024 10:33 LEE'S SUMMIT, MISSOURI