

RE: P230324

Roof - Osage Lot 68

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017 314-434-1200

Site Information:

Customer: Clover & Hive Project Name: P230324 Lot/Block: 74 Model: I Model: Basswood - Farmhouse

Address: 2130 SW Rutherford Dr Subdivision: Osage

City: Lee's Summit State: MO

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

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

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

This package includes 25 individual, dated Truss Design Drawings and 0 Additional Drawings.

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	158951913 158951914 158951915 158951916 158951917 158951918 158951920 158951920 158951921 158951922 158951923 158951924 158951925 158951926 158951927 158951927 158951928 158951929 158951930	B2 B3 C1 C2 C3 D1 D2 D3 E1 E4 E5 E6 E7 R1 V1 V2 V3	6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023 6/15/2023	22 23 24 25	158951933 158951934 158951935 158951936	V7 V8 V9 V10	6/15/2023 6/15/2023 6/15/2023 6/15/2023
20	l58951931	V5	6/15/2023				

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

MiTek USA, Inc under my direct supervision based on the parameters provided by .

Truss Design Engineer's Name: Nathan Fox

My license renewal date for the state of Missouri is December 31, 2024.

Missouri COA: 001193

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



NOTED ON PLANS REVIEW EXELQPMENT SERVICES TS SUMMIT, MISSOURI pier Building Supply (Springhill, KS), Spri 06/2023 3:50:26 lills. KS - 66083.

Truss Type Monopitch Supported Gable Qty

Ply

Roof - Osage Lot 68

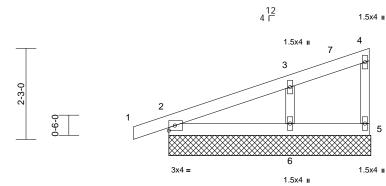
158951912

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Job Reference (optional)

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



4-11-8 Scale = 1:28.5

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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 19 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

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

Max Horiz 2=85 (LC 8)

Max Uplift 2=-49 (LC 8), 5=-14 (LC 8), 6=-78

(LC 12)

Max Grav 2=182 (LC 1), 5=47 (LC 1), 6=269

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-3=-141/58, 3-4=-29/8, 4-5=-37/47

BOT CHORD 2-6=0/0, 5-6=0/0 3-6=-205/304 **WEBS**

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) 1) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-10-4 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 5, 49 lb uplift at joint 2 and 78 lb uplift at joint 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard

OF MISSO PE-2022042259 SSIONAL

June 15,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



NOTED ON PLANS REVIEW EXELQPMENT SERVICES LEE'S SUMMIT, MISSOURI Premier Building Supply (Springhill, KS) Spri 07/06/2023 3:50:26 lills. KS - 66083.

Truss Type	Qty
Monopitch	3

Roof - Osage Lot 68

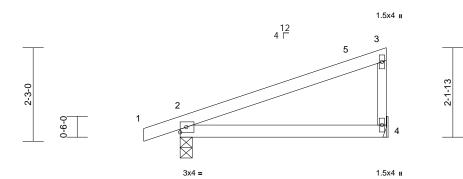
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Ply

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



4-11-8

Scale = 1:27	7.7
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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	0.49	Vert(LL)	-0.03	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.06	2-4	>958	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 18 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals. **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=85 (LC 8)

Max Uplift 2=-83 (LC 8), 4=-59 (LC 12) Max Grav 2=291 (LC 1), 4=204 (LC 1)

FORCES

(lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=0/6, 2-3=-100/45, 3-4=-157/228

BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 4-10-4 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 59 lb uplift at joint 4 and 83 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 15,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



NOTED ON PLANS REVIEW EXELQPMENT SERVICES E'S SUMMIT, MISSOURI pier Building Supply (Springhill, KS), Spri 06/2023 3:50:26 lills. KS - 66083.

Truss Type
Monopitch

Roof - Osage Lot 68

158951914 Job Reference (optional)

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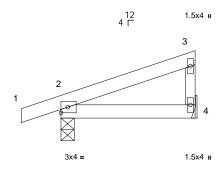
Ply

-0-10-8 2-11-8 0-10-8 2-11-8

Qty

7





Scale = 1:25.4

2-11-8

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	0.13	Vert(LL)	0.00	2-4	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(CT)	-0.01	2-4	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 11 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-0-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc

bracing.

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

Max Horiz 2=56 (LC 8)

Max Uplift 2=-72 (LC 8), 4=-32 (LC 12) Max Grav 2=207 (LC 1), 4=108 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension 1-2=0/6, 2-3=-61/28, 3-4=-81/124

TOP CHORD BOT CHORD 2-4=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4 and 72 lb uplift at joint 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard







Truss Type Common Structural Gable Qty

Ply

Roof - Osage Lot 68

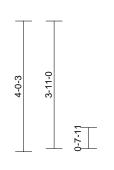
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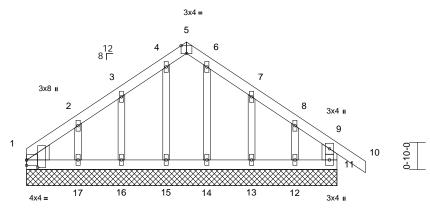
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158951915

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9-6-8

Scale = 1:35.4

Plate Offsets (X, Y): [1:0-2-11,0-4-1], [5:0-2-0,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	11	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 45 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 2x6 SPF No.2 WEBS OTHERS 2x3 SPF No.2 WEDGE Left: 2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

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

bracing.

REACTIONS (size)

1=9-6-8, 11=9-6-8, 12=9-6-8, 13=9-6-8, 14=9-6-8, 15=9-6-8,

16=9-6-8, 17=9-6-8

1=117 (LC 11) Max Horiz

Max Uplift 1=-30 (LC 8), 11=-4 (LC 9), 12=-77 (LC 13), 13=-60 (LC 13), 15=-9 (LC

9), 16=-57 (LC 12), 17=-84 (LC 12) Max Grav 1=85 (LC 20), 11=160 (LC 1),

12=94 (LC 20), 13=139 (LC 20)

14=116 (LC 1), 15=131 (LC 19), 16=119 (LC 19), 17=170 (LC 19)

FORCES (lb) - Maximum Compression/Maximum

Tension

5-6=-68/99, 6-7=-69/100, 7-8=-29/37, TOP CHORD 8-9=-54/30, 9-10=0/43, 1-2=-101/97,

2-3=-67/65, 3-4=-68/99, 4-5=-68/99,

9-11=-138/68

BOT CHORD 1-17=-46/98, 16-17=-46/98, 15-16=-46/98, 14-15=-46/98, 13-14=-46/98, 12-13=-46/98,

11-12=-46/98

4-15=-104/24, 6-14=-91/1, 2-17=-131/116,

8-12=-95/89, 3-16=-96/96, 7-13=-110/102

WEBS NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-0-0 to 4-11-0, Exterior(2R) 4-11-0 to 9-11-0, Interior (1) 9-11-0 to 10-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 11, 30 lb uplift at joint 1, 9 lb uplift at joint 15, 84 lb uplift at joint 17, 77 lb uplift at joint 12, 57 lb uplift at joint 16 and 60 lb uplift at joint 13.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





NOTED ON PLANS REVIEW EXELQPMENT SERVICES lills. KS - 66083.

Truss Type Common

Roof - Osage Lot 68

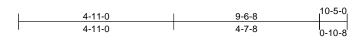
Job Reference (optional)

158951916

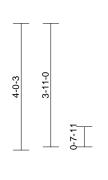
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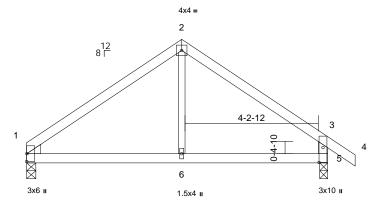
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Ply



Qty





ı	4-11-0	9-6-8
ı	4-11-0	4-7-8

Scale = 1:36.5

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

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	0.42	Vert(LL)	0.06	`1-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.54	Vert(CT)	-0.04	1-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 37 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 5-3:2x4 SP No.2 WEBS

Left: 2x4 SPF No.3 WEDGE

BRACING

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

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

bracing.

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

Max Horiz 1=116 (LC 11)

Max Uplift 1=-57 (LC 12), 5=-82 (LC 13) Max Grav 1=412 (LC 1), 5=492 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-3=-452/479, 3-4=0/40, 1-2=-465/468,

3-5=-445/419

BOT CHORD 1-6=-266/295, 5-6=-266/295

WEBS 2-6=-342/207

NOTES

- Unbalanced roof live loads have been considered for
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 4-11-0, Exterior(2R) 4-11-0 to 9-11-0, Interior (1) 9-11-0 to 10-5-0 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 82 lb uplift at joint 5 and 57 lb uplift at joint 1.
- 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





NOTED ON PLANS REVIEW **Б**У҉БІ҉ДРМЕNT SERVIÇES E'S SUMMIT, MISSOURI pier Building Supply (Springbill, KS), Sr 206/2023 3:50:27 lills. KS - 66083.

Truss Type Common

Roof - Osage Lot 68

158951917 Job Reference (optional)

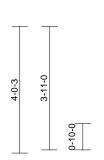
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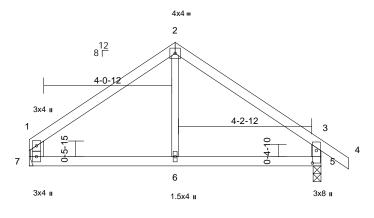
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Ply

4-7-8 9-3-0 4-7-8 4-7-8

Qty





4-7-8 9-3-0 4-7-8 4-7-8

Scale = 1:36.5

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

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	0.32	Vert(LL)	0.03	5-6	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(CT)	-0.03	5-6	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 37 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 7-1:2x6 SPF No.2,

5-3:2x4 SP No.2

BRACING

WEBS

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

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

bracing

REACTIONS (size) 5=0-3-0, 7= Mechanical

Max Horiz 7=-122 (LC 8)

Max Uplift 5=-81 (LC 13), 7=-54 (LC 12) Max Grav 5=475 (LC 1), 7=395 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 2-3=-411/435, 3-4=0/40, 1-2=-404/434,

1-7=-339/330, 3-5=-423/401 **BOT CHORD** 6-7=-230/259, 5-6=-230/259

WEBS 2-6=-298/175

NOTES

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-2-12 to 4-7-8, Exterior(2R) 4-7-8 to 9-7-8, Interior (1) 9-7-8 to 10-1-8 zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: , Joint 5 SP No.2 crushing capacity of 565 psi.
- Refer to girder(s) for truss to truss connections.

- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 81 lb uplift at joint 5 and 54 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





Truss Type Roof Special Supported Gable Qty

Ply

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:48

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Roof - Osage Lot 68

158951918

Page: 1

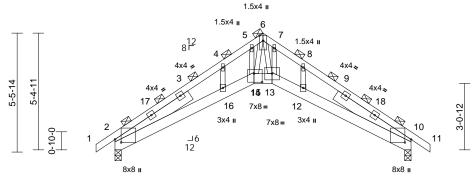
Job Reference (optional)

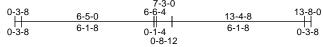
6-10-0 13-8-0 6-10-0 6-10-0





1.5x4 II





Scale = 1:53.2

Plate Offsets (X, Y): [2:0-1-12,0-3-6], [10:0-1-12,0-3-6], [15:0-4-8,0-4-12]

Loading	(psf)	Spacing	4-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.55	Vert(LL)	-0.11	15-16	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.20	15-16	>785	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.24	10	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP No.2

2x6 SPF No.2 *Except* 15-13:2x6 SP 2400F BOT CHORD

2.0E

2x3 SPF No 2 WFBS OTHERS 2x3 SPF No.2

SLIDER Left 2x6 SPF No.2 -- 4-1-3, Right 2x6 SPF

No.2 -- 4-1-3

BRACING TOP CHORD 2-0-0 oc purlins (3-2-7 max.)

(Switched from sheeted: Spacing > 2-8-0). **BOT CHORD**

Rigid ceiling directly applied or 10-0-0 oc

bracing.

REACTIONS (size) 2=0-3-8, 10=0-3-8

Max Horiz 2=287 (LC 11)

Max Uplift 2=-219 (LC 12), 10=-219 (LC 13) Max Grav 2=1344 (LC 1), 10=1344 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/19. 2-4=-3165/323. 4-5=-2827/528.

5-6=-2667/579, 6-7=-2685/550,

7-8=-2859/499, 8-10=-3192/316, 10-11=0/19 **BOT CHORD**

2-16=-247/2683, 15-16=-338/2767,

14-15=-200/2406, 13-14=-93/2122,

12-13=-135/2716, 10-12=-106/2647 6-13=-426/1370, 6-14=-574/1567,

5-15=-3/188, 7-13=-116/265, 4-16=-139/339,

8-12=-169/358

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=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 6-10-0, Exterior (2R) 6-10-0 to 11-10-0, Interior (1) 11-10-0 to 14-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 1-4-0 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.
- Bearing at joint(s) 2, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 219 lb uplift at joint 2 and 219 lb uplift at joint 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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





NOTED ON PLANS REVIEW БУБУДРМЕNT SERYJÇES nier Building Supply (Springhill, KS) 06/2023 3:50:2 lills. KS - 66083.

Truss Type Roof Special Structural Gable Qty

Ply

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:48

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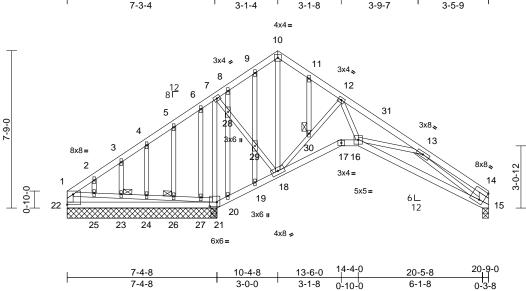
Roof - Osage Lot 68

Job Reference (optional)

Page: 1

158951919

7-3-4 13-6-0 17-3-7 20-9-0 7-3-4 3-1-4 3-1-8 3-9-7 3-5-9



Scale = 1:56.7

Plate Offsets (X, Y): [1:Edge,0-6-2], [14:0-2-8,0-6-0], [21:0-4-4,0-2-8]

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	0.51	Vert(LL)	-0.09	21-22	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.17	21-22	>500	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.07	15	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 124 lb	FT = 20%

LUMBER

WEBS

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

2x3 SPF No.2 *Except* 22-1:2x4 SP No.2, 15-14:2x6 SPF No.2

OTHERS 2x3 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

BOT CHORD

bracing. JOINTS 1 Brace at Jt(s): 23,

26.30

REACTIONS (size) 15=0-3-8, 21=7-4-8, 22=7-4-8

22=217 (LC 11) Max Horiz

Max Uplift 15=-84 (LC 13), 21=-141 (LC 12),

22=-242 (LC 26)

Max Grav 15=367 (LC 1), 21=1549 (LC 1),

22=128 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD

1-2=-73/574, 2-3=-85/606, 3-4=-63/619, 4-5=-50/658, 5-6=-27/698, 6-7=-13/643, 7-8=-46/219, 8-9=-1/183, 9-10=0/192,

10-11=0/231, 11-12=-5/171, 12-13=-482/49, 13-14=-221/49, 1-22=-58/309, 14-15=-193/60

BOT CHORD 21-22=-293/534, 20-21=-658/155,

19-20=-607/182, 18-19=-594/194,

17-18=-19/226, 16-17=-8/203,

15-16=-192/688

WEBS 7-21=-856/219, 12-16=0/461, 1-25=-888/293,

23-25=-883/290, 23-24=-885/292, 24-26=-886/292, 26-27=-888/293, 21-27=-913/293, 13-15=-620/207, 7-28=0/549, 28-29=0/613, 18-29=0/586,

10-18=-304/0, 18-30=-517/132, 12-30=-517/132, 13-16=-309/285, 3-23=-46/33, 4-24=-23/15, 2-25=-48/83, 5-26=-36/30, 6-27=-152/9, 8-28=-115/50,

20-28=-132/0, 9-29=-54/18, 19-29=-21/11,

11-30=0/3

NOTES

- Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-2-15, Interior (1) 5-2-15 to 10-4-8, Exterior(2R) 10-4-8 to 15-4-8, Interior (1) 15-4-8 to 20-6-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- 9) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 242 lb uplift at joint 22, 141 lb uplift at joint 21 and 84 lb uplift at joint
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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 chorembers 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



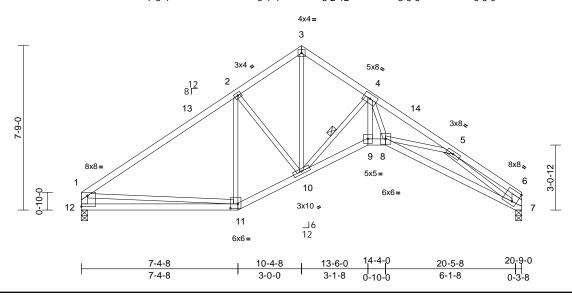
NOTED ON PLANS REVIEW **Б**У҉БІ҉ДРМЕNT SERЧІÇES

Ply Qty Truss Type Roof - Osage Lot 68 158951920 Roof Special Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:49 ID:pwt0jO1hEphDIMFL4rqrrezwwfy-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-3-4 10-4-8 13-7-4 17-3-7 20-9-0 7-3-4 3-1-4 3-2-12 3-8-3 3-5-9



Scale = 1:54.3

Plate Offsets (X, Y): [1:Edge,0-6-2], [6:0-2-8,0-6-0], [11:0-4-4,0-2-8]

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	0.74	Vert(LL)	-0.16	` ģ	>999	240	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.28	9	>865	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.25	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 104 lb	FT = 20%

LUMBER

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

2x3 SPF No.2 *Except* 12-1:2x4 SP No.2, WEBS

7-6:2x6 SPF No.2

BRACING

TOP CHORD Structural wood sheathing directly applied or

2-2-0 oc purlins, except end verticals. Rigid ceiling directly applied or 9-8-11 oc **BOT CHORD**

bracing

WEBS 1 Row at midpt 4-10 REACTIONS (size) 7=0-3-8, 12=0-3-8

Max Horiz 12=210 (LC 11)

Max Uplift 7=-127 (LC 13), 12=-127 (LC 12)

Max Grav 7=917 (LC 1), 12=917 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD

1-2=-1150/198, 2-3=-1063/260,

3-4=-1028/245, 4-5=-2782/359, 5-6=-408/64,

1-12=-840/173, 6-7=-326/71

11-12=-235/537, 10-11=-158/968, 9-10=-207/2186, 8-9=-174/1910,

7-8=-357/2139

WEBS 2-11=-363/123, 4-8=-74/1149, 1-11=-22/460,

5-7=-2189/386, 2-10=-161/181

3-10=-232/934, 4-10=-1778/251, 5-8=-7/436,

4-9=-88/959

NOTES

BOT CHORD

Unbalanced roof live loads have been considered for this design.

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-1-12 to 5-1-12, Interior (1) 5-1-12 to 10-4-8, Exterior(2R) 10-4-8 to 15-4-8, Interior (1) 15-4-8 to 20-6-4 zone; cantilever left and right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 127 lb uplift at joint 12 and 127 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 15,2023

Page: 1

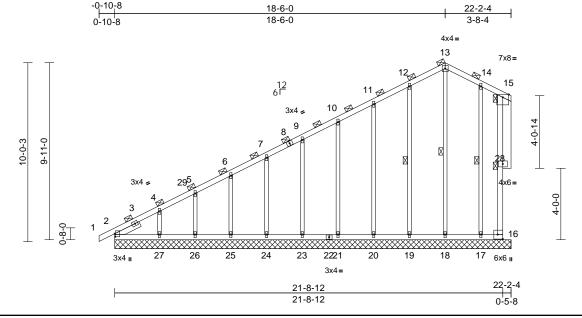


NOTED ON PLANS REVIEW EXELQPMENT SERVICES g Supply (Springhill, KS) 023 3:50:2

Ply Truss Type Qtv Roof - Osage Lot 68 158951921 Common Supported Gable Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:49 ID:bSBHIwRtVwODq1AP3GRETazww5H-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:64.5

Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.87	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.01	16	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 138 lb	FT = 20%

LUMBER	
TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP 1650F 1.5E

2x3 SPF No.2 *Except* 28-15:2x6 SPF No.2 OTHERS

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

BRACING

TOP CHORD 2-0-0 oc purlins (5-6-9 max.), except end

verticals

(Switched from sheeted: Spacing > 2-8-0). **BOT CHORD** Rigid ceiling directly applied or 9-7-14 oc

bracing.

WEBS 1 Row at midpt 13-18, 12-19, 14-17,

15-16

REACTIONS (size)

2=22-2-4, 16=22-2-4, 17=22-2-4, 18=22-2-4, 19=22-2-4, 20=22-2-4, 21=22-2-4, 23=22-2-4, 24=22-2-4,

25=22-2-4 26=22-2-4 27=22-2-4

Max Horiz 2=759 (LC 9)

Max Uplift 2=-36 (LC 8), 16=-91 (LC 8), 17=-77 (LC 13), 18=-126 (LC 11), 19=-123 (LC 12), 20=-126 (LC 12),

21=-122 (LC 12), 23=-123 (LC 12), 24=-121 (LC 12), 25=-129 (LC 12), 26=-91 (LC 12), 27=-261 (LC 12)

Max Grav 2=475 (LC 20), 16=144 (LC 20), 17=310 (LC 26), 18=370 (LC 19),

19=377 (LC 25), 20=359 (LC 25), 21=360 (LC 1), 23=360 (LC 25), 24=359 (LC 1), 25=365 (LC 25),

26=341 (LC 1), 27=432 (LC 25)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/11, 2-4=-990/650, 4-5=-779/549 5-6=-690/525, 6-7=-578/485, 7-9=-471/448,

9-10=-397/410, 10-11=-365/426, 11-12=-365/540, 12-13=-396/635, 13-14=-395/613, 14-15=-450/603,

15-16=-388/528

BOT CHORD 2-27=-305/391, 26-27=-305/391, 25-26=-305/391, 24-25=-305/391,

23-24=-305/391, 21-23=-305/391, 20-21=-305/391, 19-20=-305/391, 18-19=-305/391, 17-18=-305/391,

16-17=-305/391

13-18=-377/221, 12-19=-298/197, WEBS 11-20=-279/206, 10-21=-280/193, 9-23=-280/193, 7-24=-280/193,

> 6-25=-282/202, 5-26=-270/202 4-27=-326/415, 14-17=-332/375

NOTES

Unbalanced roof live loads have been considered for this design

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 18-6-0, Corner(3E) 18-6-0 to 21-8-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 16, 126 lb uplift at joint 18, 123 lb uplift at joint 19, 126 lb uplift at joint 20, 122 lb uplift at joint 21, 123 lb uplift at joint 23, 121 lb uplift at joint 24, 129 lb uplift at joint 25, 91 lb uplift at joint 26, 261 lb uplift at joint 27, 77 lb uplift at joint 17 and 36 lb uplift at joint 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard





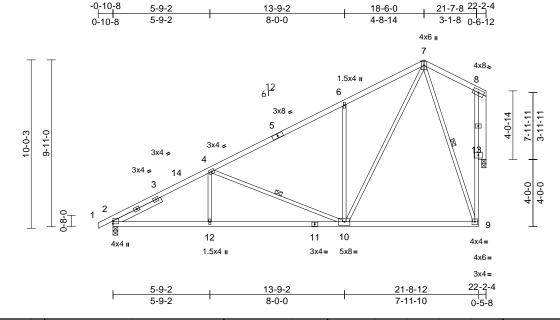
NOTED ON PLANS REVIEW EXELQPMENT SERVICES emier Building Supply (Springhill, KS) 706/2023 3.50.2

Ply Truss Type Qty Roof - Osage Lot 68 158951922 Roof Special 8 Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:50 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Page: 1



Loading	(psf)	Spacing	2-0-0	csı		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.11	9-10	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.23	9-10	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.96	Horz(CT)	-0.03	13	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 121 lb	FT = 20%

LUMBER

Scale = 1:68.5

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except* 9-8:2x3 SPF No.2 2x3 SPF No.2 *Except* 13-8:2x6 SPF No.2 WEBS

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

BRACING

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

BOT CHORD Rigid ceiling directly applied or 8-4-8 oc

bracing.

WEBS 4-10, 7-9 1 Row at midpt REACTIONS (size) 2=0-3-8, 13=0-3-2

Max Horiz 2=384 (LC 12) Max Uplift 2=-153 (LC 12), 13=-235 (LC 12) Max Grav 2=1036 (LC 1), 13=972 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/6, 2-4=-1623/208, 4-6=-943/120,

6-7=-924/276, 7-8=-64/49, 9-13=-212/848,

8-13=-124/66

BOT CHORD 2-12=-483/1364, 10-12=-483/1364,

9-10=-82/264

WEBS 6-10=-521/308, 7-10=-338/1066, 4-12=0/277,

4-10=-680/274, 7-9=-822/263

NOTES

- 1) Unbalanced roof live loads have been considered for this design
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-6-0, Exterior(2E) 18-6-0 to 21-7-8 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi, Joint 13 SPF No.2 crushing capacity of 425 psi.
- Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 2 and 235 lb uplift at joint 13.
- 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





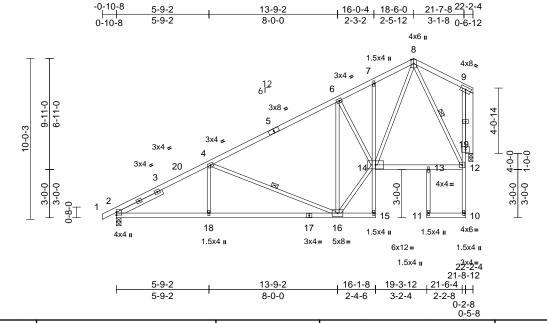
NOTED ON PLANS REVIEW EXELQPMENT SERVECES g Supply (Springhill, KS) 023 3:50:2

Ply Qty Truss Type Roof - Osage Lot 68 158951923 Roof Special 2 Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:50 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-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	0.82	Vert(LL)	-0.10	16-18	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.22	16-18	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.04	19	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 134 lb	FT = 20%

LUMBER

Scale = 1:71.7

2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* 15-7,13-11,10-9:2x3 **BOT CHORD**

SPF No.2

WEBS 2x3 SPF No.2 *Except* 19-9:2x6 SPF No.2

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

BRACING TOP CHORD

BOT CHORD

Structural wood sheathing directly applied or 3-10-14 oc purlins, except end verticals.

Rigid ceiling directly applied or 6-0-0 oc

bracing.

WFBS 1 Row at midpt 4-16 8-12

REACTIONS (size) 2=0-3-8, 19=0-3-2 Max Horiz 2=384 (LC 12)

Max Uplift 2=-153 (LC 12), 19=-235 (LC 12)

Max Grav 2=1036 (LC 1), 19=972 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

1-2=0/6, 2-4=-1624/204, 4-6=-940/125. TOP CHORD

6-7=-943/261, 7-8=-841/278, 8-9=-69/49 10-12=0/47. 12-19=-208/852. 9-19=-122/68

BOT CHORD 2-18=-480/1364, 16-18=-480/1364,

15-16=-13/1, 14-15=-43/0, 7-14=-20/62,

13-14=-115/391, 12-13=-116/391,

11-13=0/41, 10-11=0/2 WFBS 6-16=-566/285, 8-14=-303/1001, 4-18=0/294,

4-16=-682/265, 8-12=-875/265,

14-16=-374/1218, 6-14=-16/34

NOTES

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-6-0, Exterior(2E) 18-6-0 to 21-7-8 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Bearings are assumed to be: Joint 2 SP No.2 crushing capacity of 565 psi, Joint 19 SPF No.2 crushing capacity of 425 psi.
- Bearing at joint(s) 19 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 153 lb uplift at joint 2 and 235 lb uplift at joint 19.
- 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



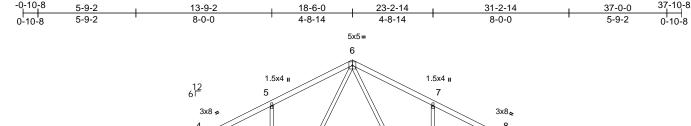


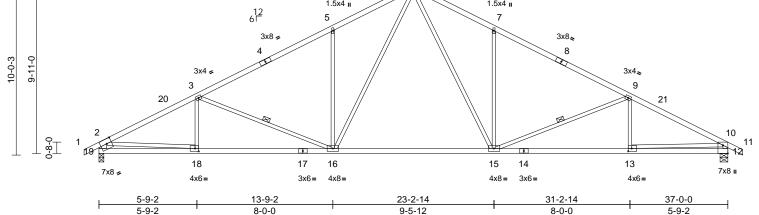
NOTED ON PLANS REVIEW EXELQPMENT SERVECES

Ply Qty Truss Type Roof - Osage Lot 68 158951924 Common Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:51 ID:TnZ3x61kRmd3IVZaqXdQQ5zwvtc-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1





Scale = 1:67.8

Plate Offsets (X, Y): [12:Edge,0-3-8], [13:0-2-8,0-2-0], [18:0-2-8,0-2-0], [19:0-3-8,0-3-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.19	15-16	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.44	15-16	>993	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.10	12	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 176 lb	FT = 20%

LUMBER

TOP CHORD 2x4 SP 1650F 1.5E

BOT CHORD 2x4 SP No.2

2x3 SPF No.2 *Except* 19-2:2x6 SPF No.2,

12-10:2x4 SP 1650F 1.5E

BRACING

WEBS

TOP CHORD Structural wood sheathing directly applied or 3-4-13 oc purlins, except end verticals.

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

bracing, Except:

8-5-5 oc bracing: 16-18.

WEBS 3-16, 9-15 1 Row at midpt

REACTIONS (size) 12=0-5-8, 19=0-3-8 Max Horiz 19=-166 (LC 17)

Max Uplift 12=-276 (LC 13), 19=-278 (LC 12)

Max Grav 12=1719 (LC 1), 19=1726 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=0/35, 2-3=-2848/431, 3-5=-2360/418,

5-6=-2337/549, 6-7=-2343/549,

7-9=-2365/419, 9-10=-2884/437, 10-11=0/32,

2-19=-1661/338, 10-12=-1654/334

18-19=-249/555. 16-18=-474/2474. 15-16=-102/1561, 13-15=-312/2506,

12-13=-114/613

5-16=-512/308, 6-16=-325/1012,

9-13=-32/166, 7-15=-511/308, 3-18=-52/151,

10-13=-208/1899, 3-16=-556/246, 6-15=-327/1021, 2-18=-225/1934,

9-15=-581/251

NOTES

WEBS

BOT CHORD

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

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) -0-10-8 to 4-1-8, Interior (1) 4-1-8 to 18-6-0, Exterior (2R) 18-6-0 to 23-2-14, Interior (1) 23-2-14 to 37-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- The Fabrication Tolerance at joint 10 = 16%
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing
- capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 276 lb uplift at joint 12 and 278 lb uplift at joint 19.
- 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



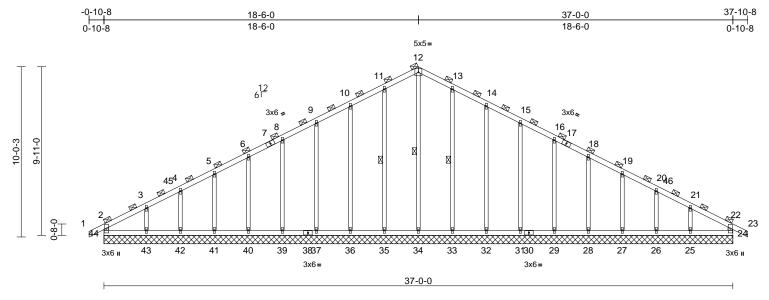


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	E23 6									
	Premier	Buildin	ivilv ig Sy	pply 23	(Spr	inghi	0	3	prin	g

Qty Ply Truss Type Roof - Osage Lot 68 158951925 Common Supported Gable Job Reference (optional)

lills KS - 66083

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:51 ID:30TC0Xcr8WgF3uEpecUgNDzwvss-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:67.8

LIMBER

Plate Offsets	(X,	Y):	[17:0-0	-0,0-0-0	
---------------	-----	-----	---------	----------	--

Loading	(psf)	Spacing	4-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	NO	WB	0.40	Horz(CT)	0.02	24	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-R							Weight: 191 lb	FT = 20%

(lb) - Maximum Compression/Maximum

LUMBER				FURCES	(ib) - iviaximum Compression/iviaximum
TOP CHORD	2x4 SP N	0.2			Tension
BOT CHORD	2x4 SP N	0.2		TOP CHORD	2-44=-331/145, 1-2=0/64, 2-3=-395/168,
WEBS	2x4 SP N	0.2			3-4=-263/184, 4-5=-207/232, 5-6=-163/287,
OTHERS	2x3 SPF I	No.2			6-8=-139/343, 8-9=-171/424, 9-10=-208/531,
BRACING					10-11=-248/646, 11-12=-282/738,
TOP CHORD	2-0-0 oc r	ourlins (6.	-0-0 max.), except end		12-13=-282/738, 13-14=-248/646,
TOT OTTOTAL	verticals	o) omino	o o max.), oxoopt ond		14-15=-208/531, 15-16=-171/424,
		from she	eeted: Spacing > 2-8-0).		16-18=-133/316, 18-19=-96/209,
BOT CHORD	,		ly applied or 10-0-0 oc		19-20=-128/127, 20-21=-177/81,
20. 0	bracing.	9 a oot	., appa c c c c c		21-22=-285/79, 22-23=0/64, 22-24=-331/154
WEBS	1 Row at	midnt	12-34, 11-35, 13-33	BOT CHORD	43-44=-78/318, 42-43=-78/318,
REACTIONS)-0, 25=37-0-0, 26=37-0-0,		41-42=-78/318, 40-41=-78/318,
KLACTIONS	(3126)		0-0, 28=37-0-0, 20=37-0-0, 0-0, 28=37-0-0, 29=37-0-0,		39-40=-78/318, 37-39=-78/318,
			0-0, 32=37-0-0, 33=37-0-0,		36-37=-78/318, 35-36=-78/318,
			0-0, 35=37-0-0, 36=37-0-0,		34-35=-78/318, 33-34=-78/318,
			0-0, 39=37-0-0, 40=37-0-0,		32-33=-78/318, 31-32=-78/318,
			0-0. 42=37-0-0. 43=37-0-0.		29-31=-78/318, 28-29=-78/318,
		44=37-0	-,,,		27-28=-78/318, 26-27=-78/318,
	Max Horiz				25-26=-78/318, 24-25=-78/318
			(LC 9), 25=-225 (LC 13),	WEBS	12-34=-472/99, 11-35=-296/158,
	Max Opini		(LC 13), 27=-129 (LC 13),		10-36=-279/210, 9-37=-280/190,
			(LC 13), 27=-129 (LC 13), (LC 13),		8-39=-280/193, 6-40=-280/193,
			(LC 13), 29=125 (LC 13), (LC 13),		5-41=-281/197, 4-42=-275/205,
			(I C 13), 35=-105 (I C 13),		3-43=-302/378, 13-33=-296/158,

33=-99 (LC 13), 35=-105 (LC 12),

36=-132 (LC 12), 37=-120 (LC 12),

39=-123 (LC 12), 40=-120 (LC 12),

41=-132 (LC 12), 42=-83 (LC 12),

43=-254 (LC 12), 44=-78 (LC 8)

24=375 (LC 1), 25=397 (LC 26),

26=350 (LC 1), 27=363 (LC 26),

28=359 (LC 1), 29=360 (LC 26), 31=360 (LC 1), 32=359 (LC 26), 33=376 (LC 26), 34=431 (LC 22),

35=376 (LC 25), 36=359 (LC 25), 37=360 (LC 1), 39=360 (LC 25), 40=359 (LC 1), 41=363 (LC 25), 42=350 (LC 1), 43=397 (LC 25),

44=375 (LC 1)

EUBUES

NOTES

Unbalanced roof live loads have been considered for this design.

21-25=-302/375

14-32=-279/210, 15-31=-280/190,

16-29=-280/193, 18-28=-280/193,

19-27=-281/197, 20-26=-275/206,

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner(3E) -0-10-8 to 4-1-8, Exterior(2N) 4-1-8 to 18-6-0, Corner(3R) 18-6-0 to 23-6-0, Exterior(2N) 23-6-0 to 37-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.



June 15,2023

Continued on page 2

Max Grav

Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



NOTED ON PLANS REVIEW EXELQPMENT SERVECES Premier Building Supply (Springhill, KS) Spri 07/06/2023 3:50:30 lills, KS - 66083,

Truss Type Common Supported Gable

Ply Qty

Roof - Osage Lot 68

Job Reference (optional)

158951925

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:51 ID:30TC0Xcr8WgF3uEpecUgNDzwvss-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 2

- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 44, 20 lb uplift at joint 24, 105 lb uplift at joint 35, 132 lb uplift at joint 36, 120 lb uplift at joint 37, 123 lb uplift at joint 39, 120 lb uplift at joint 40, 132 lb uplift at joint 41, 83 lb uplift at joint 42, 254 lb uplift at joint 43, 99 lb uplift at joint 33, 135 lb uplift at joint 32, 120 lb uplift at joint 31, 123 lb uplift at joint 29, 121 lb uplift at joint 28, 129 lb uplift at joint 27, 92 lb uplift at joint 26 and 225 lb uplift at joint 25.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard

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Truss Type Flat Girder

10-4-8

5-1-6

Ply Qty 2

5-1-6

Roof - Osage Lot 68

Job Reference (optional)

158951926

Page: 1

ills KS - 66083

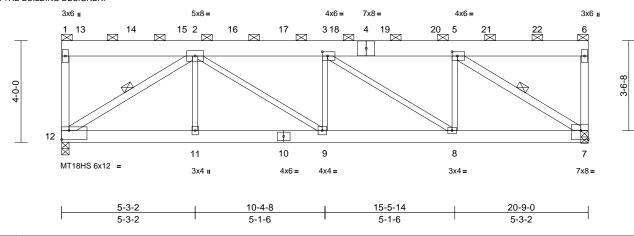
5-3-2

5-3-2

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:52 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

15-5-14 20-9-0 5-3-2

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.



Scale = 1:45.4

Plate Offsets (X, Y): [3:0-2-8,0-2-0], [5:0-2-8,0-2-0], [7:Edge,0-4-4], [12:Edge,0-4-4]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.11	9	>999	240	MT18HS	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.20	9	>999	180	MT20	197/144
BCLL	0.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.07	7	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 257 lb	FT = 20%

LUMBER

TOP CHORD 2x8 SPF No.2 **BOT CHORD** 2x6 SPF No.2

> 2x3 SPF No.2 *Except* 12-1,5-7,12-2:2x4 SP No 2

OTHERS 2x4 SP No.2

BRACING

WEBS

TOP CHORD 2-0-0 oc purlins (5-10-6 max.): 1-6, except

end verticals

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

bracing.

WEBS 1 Row at midpt 5-7, 2-12

REACTIONS (size) 7=0-3-8, (req. 0-4-1), 12=0-3-8,

(req. 0-4-8)

Max Uplift 7=-1154 (LC 8), 12=-1281 (LC 8) Max Grav 7=5155 (LC 1), 12=5719 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-12=-1320/361, 1-2=-76/18,

2-3=-8293/2099, 3-5=-6403/1622,

5-6=-72/17. 6-7=-768/252 **BOT CHORD**

11-12=-1628/6426, 9-11=-1628/6426, 8-9=-2099/8293, 7-8=-1622/6403

WEBS 5-7=-7649/1939, 2-11=0/188

2-12=-7674/1945, 2-9=-570/2256, 3-9=-1153/373, 3-8=-2284/577,

5-8=-239/1336

NOTES

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

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

oc, 2x8 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows

staggered at 0-9-0 oc

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

1 row at 0-9-0 oc.

- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Corner (3) zone; cantilever 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.
- WARNING: Required bearing size at joint(s) 12, 7
- greater than input bearing size.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1281 lb uplift at joint 12 and 1154 lb uplift at joint 7.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 916 lb down and 206 lb up at 0-9-0, 902 lb down and 203 lb up at 2-9-0, 902 lb down and 203 lb up at 4-9-0, 902 lb down and 203 lb up at 6-9-0, 902 lb down and 203 lb up at 8-9-0, 902 lb down and 203 lb up at 10-9-0, 902 lb down and 203 lb up at 12-9-0, 902 lb down and 203 lb up at 14-9-0, and 902 lb down and 203 lb up at 16-9-0, and 902 lb down and 203 lb up at 18-9-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (lb/ft)

Vert: 1-6=-70, 7-12=-20

Concentrated Loads (lb)

Vert: 13=-916, 14=-902, 15=-902, 16=-902, 17=-902, 18=-902, 19=-902, 20=-902, 21=-902, 22=-902



June 15,2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 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/TPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



NOTED ON PLANS REVIEW EXELQPMENT SERVICES Premier Building Supply (Springhill, KS), Sp 07/06/2023 3:50:31 lills. KS - 66083.

Truss Type Qtv Valley

Roof - Osage Lot 68

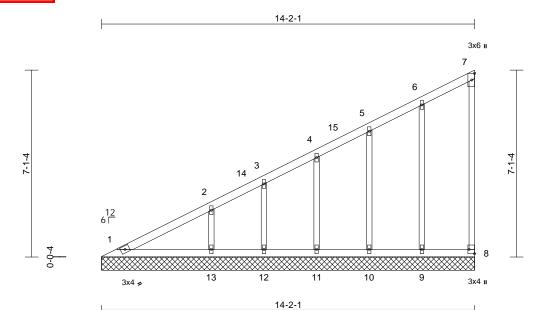
Job Reference (optional)

Page: 1

158951927

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:52 ID:9TR7X_t7mZkbh6rSl1VQ2DzJtkh-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Ply



Scale = 1:43.8

Plate Offsets (X, Y): [8: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	0.59	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.12	Horiz(TL)	0.00	8	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 63 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing. REACTIONS (size)

1=14-2-1, 8=14-2-1, 9=14-2-1, 10=14-2-1, 11=14-2-1, 12=14-2-1,

13=14-2-1 Max Horiz 1=300 (LC 9)

Max Uplift 8=-39 (LC 9), 9=-68 (LC 12),

10=-57 (LC 12), 11=-67 (LC 12), 12=-42 (LC 12), 13=-111 (LC 12)

1=168 (LC 20), 8=73 (LC 19),

9=193 (LC 1), 10=175 (LC 1)

11=194 (LC 1), 12=121 (LC 1),

13=328 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

Max Grav

TOP CHORD 1-2=-446/263, 2-3=-354/211, 3-4=-312/201,

4-5=-255/177, 5-6=-200/161, 6-7=-126/118, 7-8=-54/48

BOT CHORD 1-13=-135/147, 12-13=-135/147,

11-12=-135/147, 10-11=-135/147, 9-10=-135/147. 8-9=-135/147

WFBS 6-9=-149/167, 5-10=-138/109,

4-11=-149/105, 3-12=-100/70, 2-13=-244/189

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 14-1-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 8, 68 lb uplift at joint 9, 57 lb uplift at joint 10, 67 lb uplift at joint 11, 42 lb uplift at joint 12 and 111 lb uplift at joint 13.
- 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



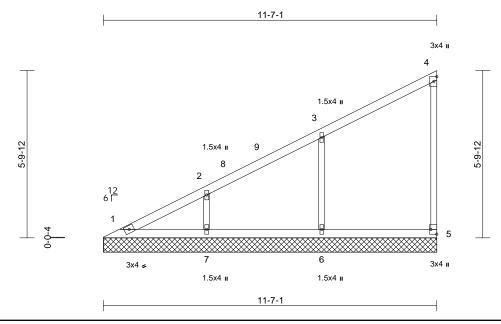


NOTED ON PLANS REVIEW EXELQPMENT SERVICES S SUMMIT, MISSOURI pier Building Supply (Springbill, KS), Sp (06/2023 3:50:31

Truss Type	Qty	Ply	Roof - Osage Lot 68	
Valley	1	1	Job Reference (optional)	158951928

lills. KS - 66083.

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:52 ID:k9HPTm2vTtVcNGw8ZzmicAzJtkT-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f Page: 1



Scale = 1:40.1

Plate Offsets (X, Y):	[5:Edge,0-2-8]
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Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.39	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.10	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 43 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 1=11-7-1, 5=11-7-1, 6=11-7-1,

7=11-7-1

Max Horiz 1=243 (LC 9)

Max Uplift 5=-39 (LC 9), 6=-135 (LC 12), 7=-116 (LC 12)

1=132 (LC 20), 5=141 (LC 1), Max Grav 6=398 (LC 1), 7=340 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-385/228, 2-3=-294/188, 3-4=-142/118,

4-5=-109/121

BOT CHORD 1-7=-110/120, 6-7=-110/120, 5-6=-110/120

WEBS 3-6=-311/291, 2-7=-260/229

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 11-6-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 5, 135 lb uplift at joint 6 and 116 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



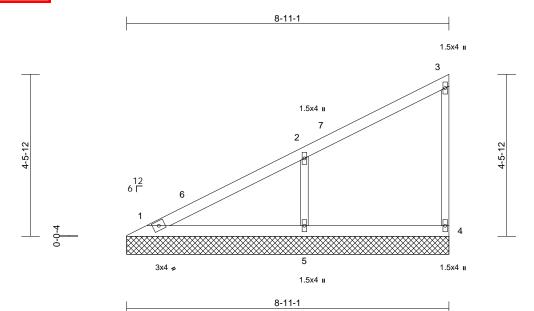


NOTED ON PLANS REVIEW e's SUMMIT, MISSOURI pier Building Supply (Springhill, KS), Sp 06/2023 3:50:31

Ply Truss Type Qty Roof - Osage Lot 68 158951929 Valley Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:53 ID:hYPAuS3A?UIKca3XhOoAhbzJtkR-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f Page: 1



Scal	le =	1:31	

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	0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.17	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 32 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

(size) REACTIONS 1=8-11-1, 4=8-11-1, 5=8-11-1

Max Horiz 1=183 (LC 9) Max Uplift 4=-32 (LC 9), 5=-157 (LC 12)

1=153 (LC 20), 4=126 (LC 1), Max Grav

5=463 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-308/189, 2-3=-131/103, 3-4=-105/127

BOT CHORD 1-5=-85/92. 4-5=-85/92 2-5=-360/350 WFBS

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 8-10-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 4 and 157 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard





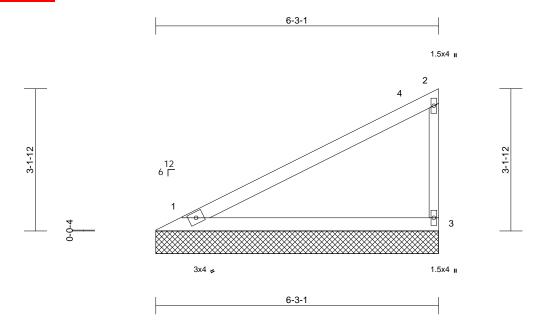
NOTED ON PLANS REVIEW EXELQPMENT SERVICES LEE'S SUMMIT, MISSOURI Premier Building Supply (Springhill, KS), Spr 07/06/2023 3:50:32

Ply Qty Truss Type Roof - Osage Lot 68 158951930 Valley Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:53 ID:9kzY5o4omouBEjejF6JPEpzJtkQ-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:25.5

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	0.73	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.39	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 21 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

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

Max Horiz 1=124 (LC 9)

Max Uplift 1=-39 (LC 12), 3=-70 (LC 12) Max Grav 1=250 (LC 1), 3=250 (LC 1) (lb) - Maximum Compression/Maximum

FORCES Tension

TOP CHORD 1-2=-170/115, 2-3=-195/241

BOT CHORD 1-3=-57/62

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-7-9 to 5-7-9, Interior (1) 5-7-9 to 6-2-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SP No.2 crushing capacity of 565 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 1 and 70 lb uplift at joint 3.

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

LOAD CASE(S) Standard





NOTED ON PLANS REVIEW EXELQPMENT SERVICES LEE'S SUMMIT, MISSOURI Premier Building Supply (Springhill, KS), Spr 07/06/2023 3:50:32

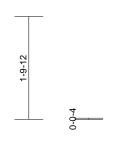
Ply Qty Truss Type Roof - Osage Lot 68 158951931 Valley Job Reference (optional)

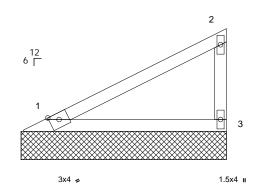
lills. KS - 66083.

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Page: 1







-9-12

3-7-1

Scale = 1:20.4

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	0.35	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 7 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 3-7-9 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=3-7-9, 3=3-7-9

Max Horiz 1=67 (LC 12)

Max Uplift 1=-13 (LC 12), 3=-47 (LC 12) Max Grav 1=138 (LC 1), 3=138 (LC 1)

FORCES (lb) - Maximum Compression/Maximum Tension

TOP CHORD 1-2=-72/39, 2-3=-107/128

BOT CHORD 1-3=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 13 lb uplift at joint 1 and 47 lb uplift at joint 3.

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

LOAD CASE(S) Standard





NOTED ON PLANS REVIEW EXELQPMENT SERVICES E'S SUMMIT, MISSOURI nier Building Supply (Springbill, KS), Spi (06/2023 3:50:32 lills. KS - 66083.

Truss Type Valley

Roof - Osage Lot 68

Job Reference (optional)

Page: 1

158951932

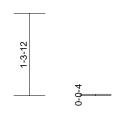
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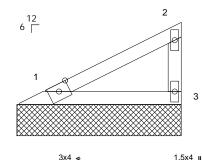
2-7-1

Qty

Ply

1.5x4 II







2-7-1

Scale = 1:18.4

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.08	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 5 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or 2-7-9 oc purlins, except end verticals.

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

bracing.

REACTIONS (size) 1=2-7-9, 3=2-7-9

Max Horiz 1=45 (LC 12)

Max Uplift 1=-9 (LC 12), 3=-32 (LC 12) Max Grav 1=93 (LC 1), 3=93 (LC 1) (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-49/26, 2-3=-72/86

BOT CHORD 1-3=0/0

NOTES

FORCES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 1 and 32 lb uplift at joint 3.

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

LOAD CASE(S) Standard





NOTED ON PLANS REVIEW EXELQPMENT SERVICES E'S SUMMIT, MISSOURI pier Building Supply (Springhill, KS), Sp 06/2023 3:50:32 lills. KS - 66083.

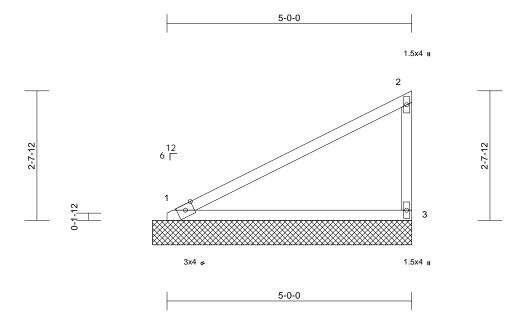
Ply Qty Truss Type Valley

Roof - Osage Lot 68

158951933 Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:53 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Scale = 1:23.5

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	0.89	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 10 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied,

except end verticals.

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

bracing.

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

Max Horiz 1=104 (LC 12)

Max Uplift 1=-20 (LC 12), 3=-72 (LC 12) Max Grav 1=213 (LC 1), 3=213 (LC 1) (lb) - Maximum Compression/Maximum

FORCES

Tension

TOP CHORD 1-2=-111/59, 2-3=-165/197

BOT CHORD 1-3=0/0

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 20 lb uplift at joint 1 and 72 lb uplift at joint 3.

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

LOAD CASE(S) Standard

OF MISSO NATHANIEL FOX MBER PE-2022042259 SSIONAL E

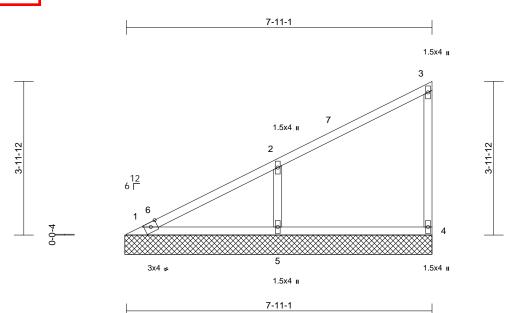


NOTED ON PLANS REVIEW EXELQPMENT SERVICES LEE'S SUMMIT, MISSOURI Premier Building Supply (Springbill KS), Spri 07/06/2023 3:50:33

Ply Qty Truss Type Roof - Osage Lot 68 158951934 Valley Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:54 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:29.9

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.23	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.08	Horiz(TL)	n/a	-	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-P							Weight: 17 lb	FT = 20%

LUMBER

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

BRACING

TOP CHORD Structural wood sheathing directly applied or

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

bracing.

REACTIONS (size) 1=7-11-9, 4=7-11-9, 5=7-11-9

Max Horiz 1=162 (LC 12)

Max Uplift 4=-46 (LC 12), 5=-142 (LC 12) 1=113 (LC 1), 4=136 (LC 1), 5=417 Max Grav

(LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-237/110, 2-3=-81/35, 3-4=-105/109

BOT CHORD 1-5=0/0 4-5=0/0 WFBS 2-5=-324/335

NOTES

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-9 to 5-5-9, Interior (1) 5-5-9 to 7-10-5 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4 and 142 lb uplift at joint 5.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 15,2023

Page: 1

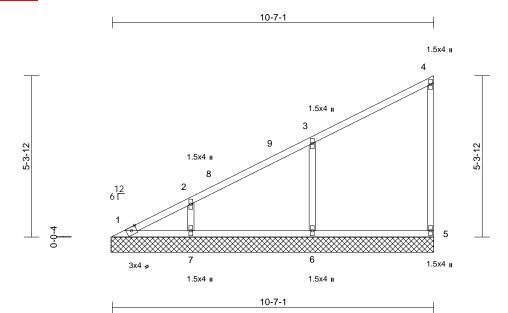


NOTED ON PLANS REVIEW EXELQPMENT SERVICES LEE'S SUMMIT, MISSOURI Premier Building Supply (Springhill KS), Spr 07/06/2023 3:50:33

Ply Truss Type Qty Roof - Osage Lot 68 158951935 Valley Job Reference (optional)

lills. KS - 66083.

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:54 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:38

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	0.41	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horiz(TL)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 25 lb	FT = 20%

LUMBER

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

BRACING

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

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

bracing.

REACTIONS (size) 1=10-7-9, 5=10-7-9, 6=10-7-9, 7=10-7-9

Max Horiz 1=220 (LC 12)

Max Uplift 5=-49 (LC 12), 6=-135 (LC 12),

7=-105 (LC 12)

Max Grav 1=91 (LC 21), 5=143 (LC 1), 6=399

(LC 1), 7=304 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-299/129, 2-3=-212/91, 3-4=-83/44,

4-5=-110/101

BOT CHORD 1-7=-4/6, 6-7=-4/6, 5-6=-4/6 WEBS 3-6=-311/285, 2-7=-235/220

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-9 to 5-5-9, Interior (1) 5-5-9 to 10-6-5 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 5, 135 lb uplift at joint 6 and 105 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 15,2023

Page: 1



NOTED ON PLANS REVIEW EXELQPMENT SERVICES Premier Building Supply (Springhill, KS), Spr 07/06/2023 3:50:33 lills. KS - 66083.

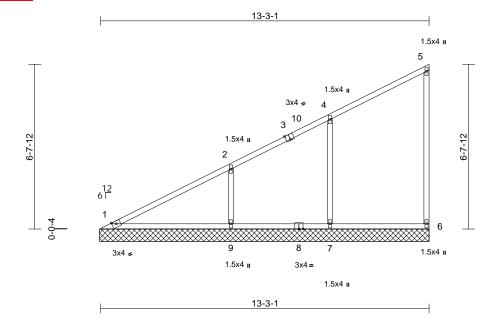
Truss Type Valley

Ply Roof - Osage Lot 68

158951936 Job Reference (optional)

Run: 8.63 S Apr 6 2023 Print: 8.630 S Apr 6 2023 MiTek Industries, Inc. Wed Jun 14 14:50:54 ID:X3j9csSdTd?hyQgxh8rn6OzwvzW-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Page: 1



Qty

Scale = 1:46.5

Plate Offsets	(X,	Y):	[3:0-2-0,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	0.59	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.32	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horiz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code	IRC2018/TPI2014	Matrix-S							Weight: 33 lb	FT = 20%

LUMBER

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

BRACING

Structural wood sheathing directly applied or TOP CHORD

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

bracing.

REACTIONS (size) 1=13-3-9, 6=13-3-9, 7=13-3-9,

9=13-3-9

Max Horiz 1=278 (LC 12)

Max Uplift 6=-52 (LC 12), 7=-121 (LC 12),

9=-157 (LC 12)

1=179 (LC 1), 6=151 (LC 1), 7=357 Max Grav

(LC 1), 9=459 (LC 1)

FORCES (lb) - Maximum Compression/Maximum

Tension

TOP CHORD 1-2=-317/141, 2-4=-185/76, 4-5=-82/47,

5-6=-115/95

BOT CHORD 1-9=-3/5, 7-9=-3/5, 6-7=-3/5 WEBS 4-7=-282/228, 2-9=-346/264

NOTES

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Ke=1.00; Cat. II; Exp C; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior(2E) 0-5-9 to 5-3-9, Interior (1) 5-3-9 to 13-2-5 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 oc.

- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- All bearings are assumed to be SPF No.2 crushing capacity of 425 psi.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 6, 121 lb uplift at joint 7 and 157 lb uplift at joint 9.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

LOAD CASE(S) Standard



June 15,2023



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

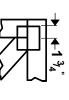
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers 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, rerection and bracing of trusses and truss systems, see

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

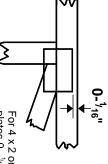


Symbols

PLATE LOCATION AND ORIENTATION



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



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

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

* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 × 4

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

LATERAL BRACING LOCATION



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

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

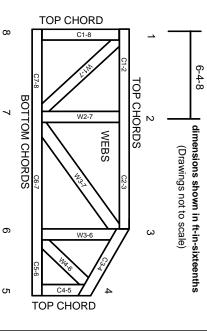
Min size shown is for crushing only

EVELOPMENT 2 Plate Co. Design S Building Guide to Installing Connectte

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

RELEASE FOR CONSTRU

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-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- . Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor1 bracing should be considered.

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

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

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

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- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber
- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. 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.