



RE: 210496
Lot 126 H4

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Site Information:

Customer: Project Name: 210496
Lot/Block:
Address:
City:

Model:
Subdivision:
State:

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

Design Code: IRC2018/TPI2014
Wind Code: ASCE716LowRise
Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4
Wind Speed: 115 mph
Floor Load: N/A psf

This package includes 41 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	I46346042	A1	7/6/2021	21	I46346062	E6	7/6/2021
2	I46346043	A2	7/6/2021	22	I46346063	G1	7/6/2021
3	I46346044	B1	7/6/2021	23	I46346064	J1	7/6/2021
4	I46346045	B2A	7/6/2021	24	I46346065	J2	7/6/2021
5	I46346046	C1	7/6/2021	25	I46346066	J3	7/6/2021
6	I46346047	C2	7/6/2021	26	I46346067	R1	7/6/2021
7	I46346048	C3	7/6/2021	27	I46346068	V1	7/6/2021
8	I46346049	C4	7/6/2021	28	I46346069	V2	7/6/2021
9	I46346050	C5	7/6/2021	29	I46346070	V3	7/6/2021
10	I46346051	C6	7/6/2021	30	I46346071	V4	7/6/2021
11	I46346052	C7	7/6/2021	31	I46346072	V5	7/6/2021
12	I46346053	C8	7/6/2021	32	I46346073	V6	7/6/2021
13	I46346054	C9	7/6/2021	33	I46346074	V7	7/6/2021
14	I46346055	D1	7/6/2021	34	I46346075	V8	7/6/2021
15	I46346056	D2	7/6/2021	35	I46346076	V9	7/6/2021
16	I46346057	E1	7/6/2021	36	I46346077	V10	7/6/2021
17	I46346058	E2	7/6/2021	37	I46346078	V11	7/6/2021
18	I46346059	E3	7/6/2021	38	I46346079	V12	7/6/2021
19	I46346060	E4	7/6/2021	39	I46346080	V13	7/6/2021
20	I46346061	E5	7/6/2021	40	I46346081	V14	7/6/2021

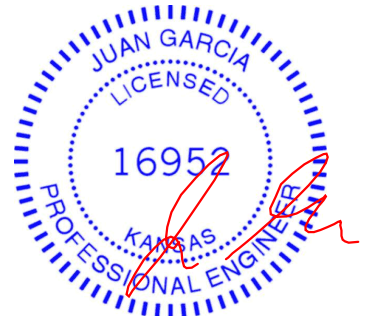
The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Kansas is April 30, 2022.

Kansas COA: E-943

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.



July 06, 2021



RE: 210496 - Lot 126 H4

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Site Information:

Project Customer: Project Name: 210496

Lot/Block:

Subdivision:

Address:

City, County:

State:

No.	Seal#	Truss Name	Date
41	I46346082	V15	7/6/2021



RE: 210496
Lot 126 H4

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16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Site Information:

Customer: Project Name: 210496
Lot/Block:
Address:
City:

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

Design Code: IRC2018/TPI2014
Wind Code: ASCE716LowRise
Roof Load: 45.0 psf

Design Program: MiTek 20/20 8.4
Wind Speed: 115 mph
Floor Load: N/A psf

This package includes 41 individual, dated Truss Design Drawings and 0 Additional Drawings.

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2	I46346043	A2	7/6/2021	22	I46346063	G1	7/6/2021
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4	I46346045	B2A	7/6/2021	24	I46346065	J2	7/6/2021
5	I46346046	C1	7/6/2021	25	I46346066	J3	7/6/2021
6	I46346047	C2	7/6/2021	26	I46346067	R1	7/6/2021
7	I46346048	C3	7/6/2021	27	I46346068	V1	7/6/2021
8	I46346049	C4	7/6/2021	28	I46346069	V2	7/6/2021
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10	I46346051	C6	7/6/2021	30	I46346071	V4	7/6/2021
11	I46346052	C7	7/6/2021	31	I46346072	V5	7/6/2021
12	I46346053	C8	7/6/2021	32	I46346073	V6	7/6/2021
13	I46346054	C9	7/6/2021	33	I46346074	V7	7/6/2021
14	I46346055	D1	7/6/2021	34	I46346075	V8	7/6/2021
15	I46346056	D2	7/6/2021	35	I46346076	V9	7/6/2021
16	I46346057	E1	7/6/2021	36	I46346077	V10	7/6/2021
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18	I46346059	E3	7/6/2021	38	I46346079	V12	7/6/2021
19	I46346060	E4	7/6/2021	39	I46346080	V13	7/6/2021
20	I46346061	E5	7/6/2021	40	I46346081	V14	7/6/2021

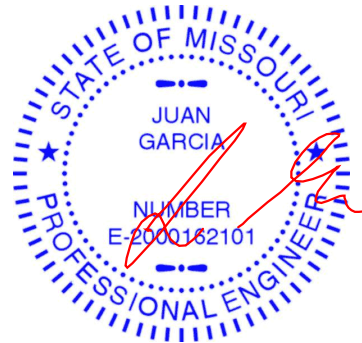
The truss drawing(s) referenced above have been prepared by
MiTek USA, Inc. under my direct supervision
based on the parameters provided by Wheeler - Waverly.

Truss Design Engineer's Name: Garcia, Juan

My license renewal date for the state of Missouri is December 31, 2022.

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.



July 06, 2021



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MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Site Information:

Project Customer: Project Name: 210496

Lot/Block:

Subdivision:

Address:

City, County:

State:

No.	Seal#	Truss Name	Date
41	I46346082	V15	7/6/2021

Job 210496	Truss A1	Truss Type Hip Girder	Qty 1	Ply 1	Lot 126 H4	I46346042
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Wheeler Lumber, Waverly, KS 66871

8.430 s Mar 22 2021 MiTek Industries, Inc. Fri May 28 15:36:26 2021 Page 1
ID: bDljNJA6?5tiTk6EI3KUKZyAkTB-hok5UQyX6eBtPVuckzUmECGyvdIYHLZ3pQk?2NzBwip

-0-10-8	2-0-0	4-0-0	8-0-0	10-0-0	12-0-0	12-10-8
0-10-8	2-0-0	2-0-0	4-0-0	2-0-0	2-0-0	0-10-8

Scale = 1:22.6

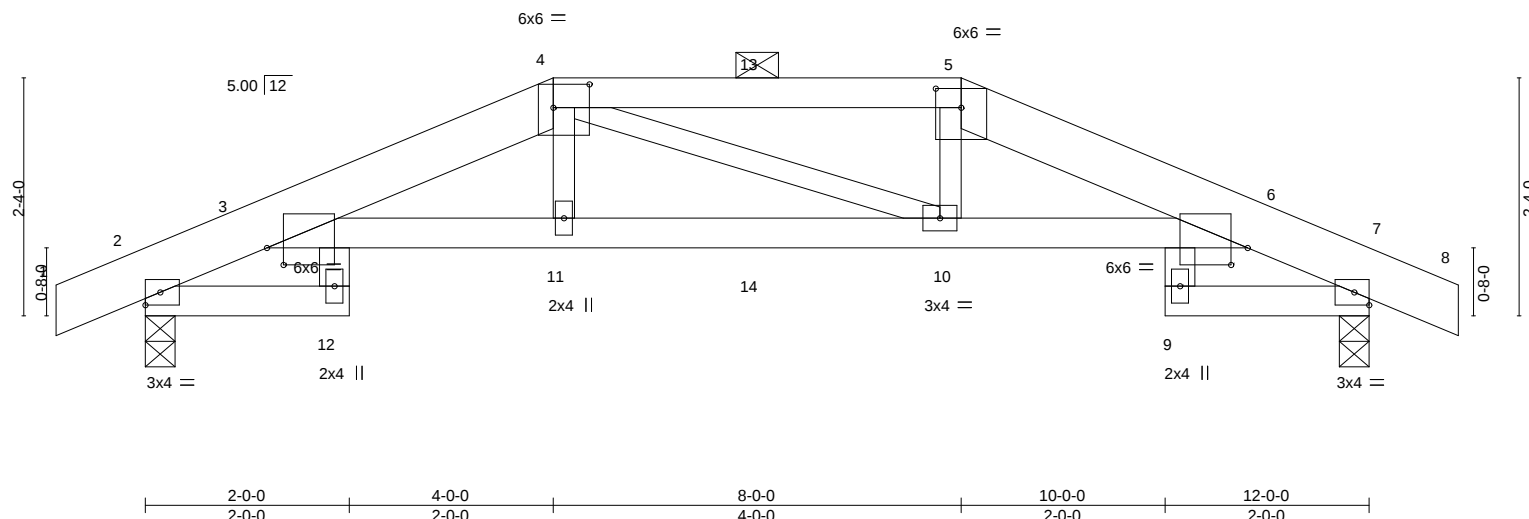


Plate Offsets (X,Y)--		[3:0-1-15,0-2-0], [4:0-4-4,0-2-12], [5:0-3-0,0-2-4], [6:0-1-15,0-2-0]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 25.0	Plate Grip DOL 1.15	TC 0.69	in (loc) l/defl L/d
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(LL) -0.09 10-11 >999 360
BCLL 0.0 *	Rep Stress Incr NO	WB 0.11	Vert(CT) -0.16 10-11 >881 240
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.15 7 n/a n/a
			Wind(LL) 0.08 10-11 >999 240
			PLATES MT20
			GRIP 197/144
			Weight: 45 lb FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
4-5: 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-11-11 oc purlins, except
2-0-0 oc purlins (3-9-11 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(lb/size) 2=920/0-3-8, 7=920/0-3-8
Max Horz 2=37(LC 33)
Max Uplift 2=-201(LC 8), 7=-201(LC 9)

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

TOP CHORD 2-3=-494/135, 3-4=-2093/498, 4-13=-1999/487, 5-13=-1999/487, 5-6=-2095/497,
6-7=-494/130
BOT CHORD 3-11=-431/1973, 11-14=-434/1997, 10-14=-434/1997, 6-10=-428/1975
WEBS 4-11=-45/312, 5-10=-54/333

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 201 lb uplift at joint 2 and 201 lb uplift at joint 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 79 lb down and 55 lb up at 4-0-0, and 84 lb down and 55 lb up at 6-0-0, and 79 lb down and 55 lb up at 8-0-0 on top chord, and 231 lb down and 100 lb up at 4-0-0, and 35 lb down and 24 lb up at 6-0-0, and 231 lb down and 100 lb up at 7-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-70, 3-4=-70, 4-5=-70, 5-6=-70, 6-8=-70, 2-12=-20, 3-6=-20, 7-9=-20



May 28, 2021

Continued on page 2

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346042
210496	A1	Hip Girder	1	1	Job Reference (optional)	

LOAD CASE(S)

Standard

Concentrated Loads (lb)

Vert: 4=-39(B) 5=-39(B) 11=-231(B) 10=-231(B) 13=-39(B) 14=-35(B)

Job 210496	Truss A2	Truss Type Roof Special	Qty 3	Ply 1	Lot 126 H4 Job Reference (optional)	I46346043
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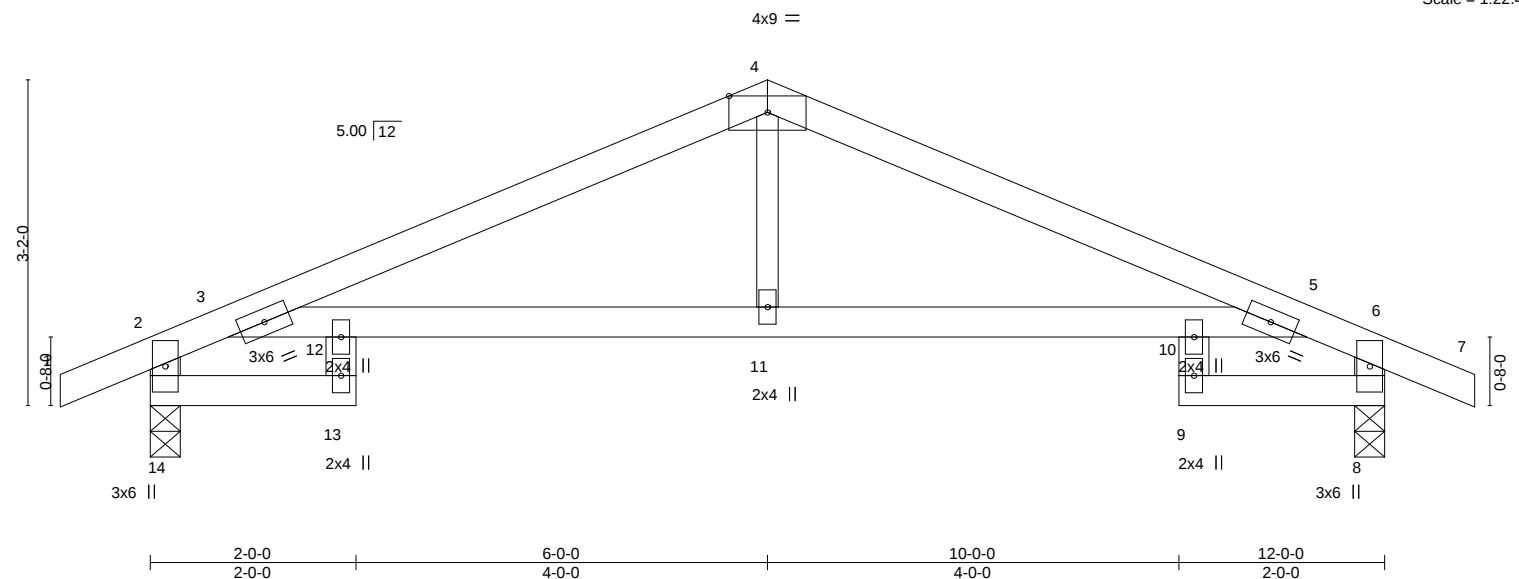
Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:29 2021 Page 1

ID: bDljNJA675iTk6EI3KUKZyAKTB-hqU7uzGcP4UJgf?bacc58HGBPhqR8B00BbpawezBy30

-0-10-8	2-0-0	6-0-0	10-0-0	12-0-0	12-10-8
0-10-8	2-0-0	4-0-0	4-0-0	2-0-0	0-10-8

Scale = 1:22.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.08 11-12	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.16 11-12	>888	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.15 8	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.07 11-12	>999	240	Weight: 37 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-11: 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 10-0-0 oc bracing: 10-11

REACTIONS.

(size) 14=0-3-8, 8=0-3-8
Max Horz 14=-36(LC 9)
Max Uplift 14=-91(LC 8), 8=-91(LC 9)
Max Grav 14=598(LC 1), 8=598(LC 1)

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

TOP CHORD 3-4=-936/87, 4-5=-936/102, 2-14=-622/117, 6-8=-622/112
BOT CHORD 3-12=-37/824, 11-12=-37/824, 10-11=-37/824, 5-10=-37/824
WEBS 4-11=0/312

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 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.



May 28, 2021

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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



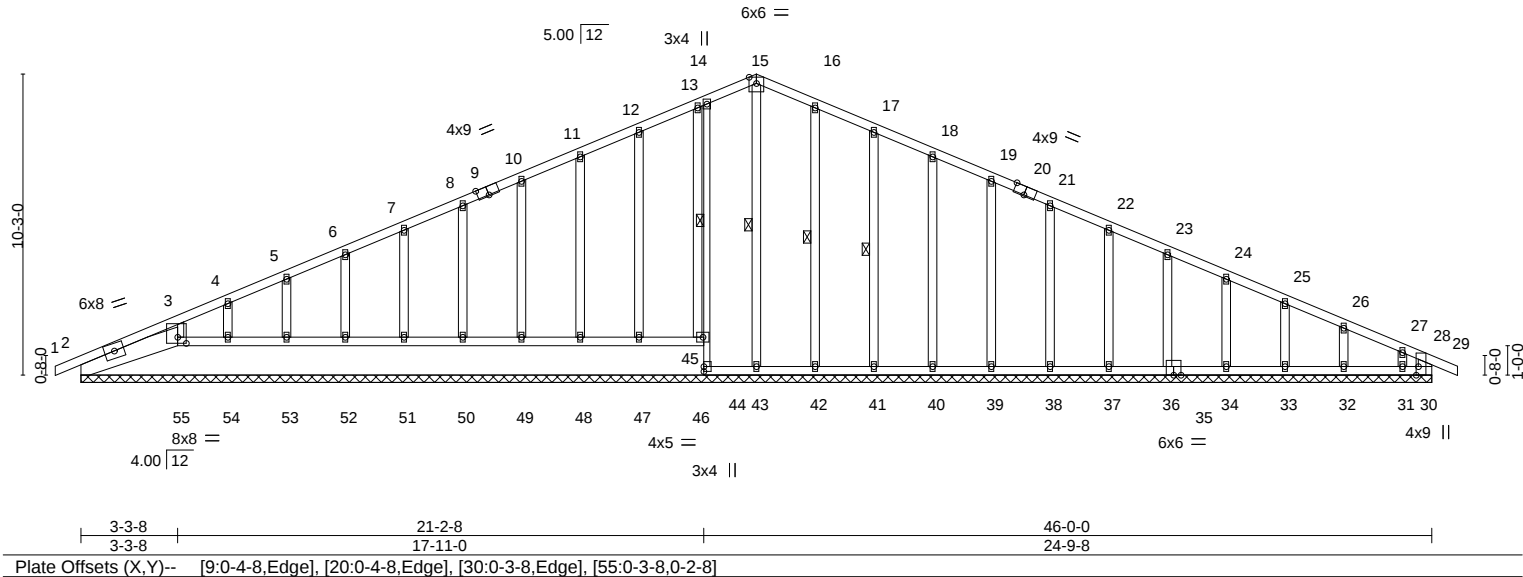
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	146346044
210496	B1	GABLE	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:31 2021 Page 1
ID:bDljNJAg75tiTk6EI3KUKZyAkTB-dCctJeHsxik1wy9_h0fZDiMcYVd2c4vJevlh_XzBy3_46-0-0 46-10-8 23-0-0 0-10-8

Scale = 1:78.5



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.13	Vert(LL)	-0.00	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.00				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.02				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
										Weight: 244 lb	FT = 10%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
2-55: 2x8 SP DSS, 14-44: 2x3 SPF No.2
WEBS 2x6 SPF No.2 *Except*
3-55: 2x3 SPF No.2
OTHERS 2x4 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 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 2-55.
1 Row at midpt 14-45
WEBS 1 Row at midpt 15-43, 16-42, 17-41

REACTIONS. All bearings 46-0-0.
(lb) - Max Horz 2=169(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 30, 2, 55, 47, 48, 49, 50, 51, 52, 53, 54, 42, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31 except 45=192(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 30, 2, 45, 44, 43, 46, 47, 48, 49, 50, 51, 52, 53, 54, 42, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31 except 55=266(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-35/268, 11-12=-35/288, 12-13=-35/310, 13-14=-32/321, 14-15=-34/327, 15-16=-34/321, 16-17=-31/288

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 45 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 100 lb uplift at joint(s) 30, 2, 55, 47, 48, 49, 50, 51, 52, 53, 54, 42, 41, 40, 39, 38, 37, 36, 34, 33, 32, 31 except (jt=lb) 45=192.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 55, 46, 47, 48, 49, 50, 51, 52, 53, 54.
 - 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.



May 28,2021

Job 210496	Truss B2A	Truss Type Roof Special	Qty 7	Ply 1	Lot 126 H4	146346045
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Wheeler Lumber, Waverly, KS - 66871,

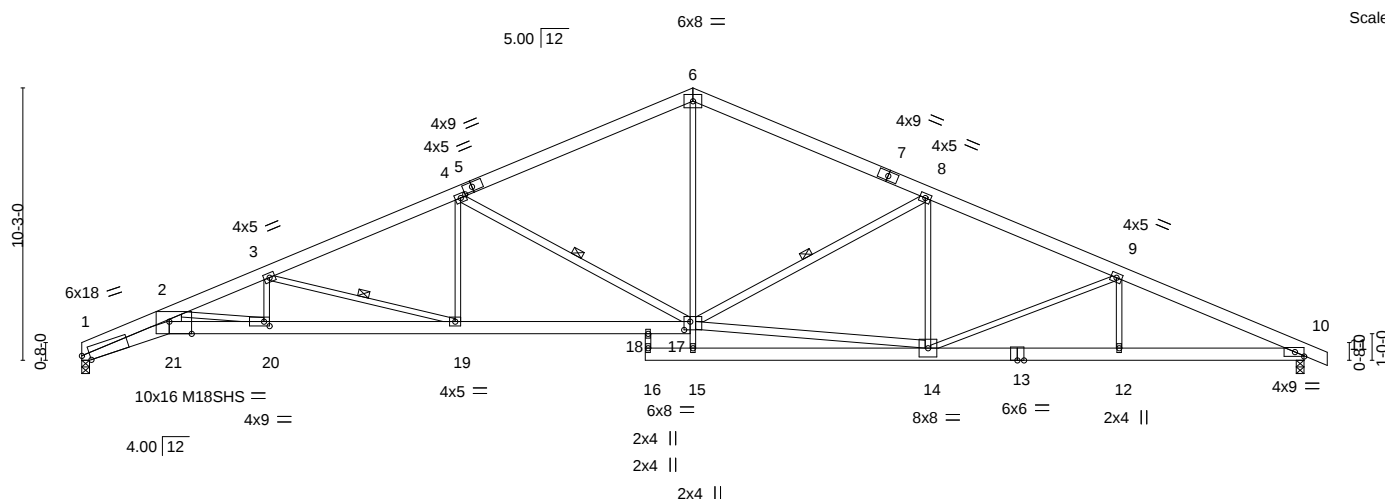
8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:32 2021 Page 1

ID:bDljNJA6?5tiTk6Ei3KUKZyAkTB-5PAFW_UI?suX6jAFkAoluvbrvo6LJ8StZ1EWzzBy2z

3-3-8	6-11-8	14-1-14	21-2-8	23-0-0	31-10-3	39-0-8	46-0-0	46-10-8
3-3-8	3-8-0	7-2-6	7-0-10	1-9-8	8-10-3	7-2-5	6-11-8	0-10-8

5.00 | 12

Scale = 1:86.7



3-3-8	6-11-8	14-1-14	21-2-8	23-0-0	31-10-3	39-0-8	46-0-0
3-3-8	3-8-0	7-2-6	7-0-10	1-9-8	8-10-3	7-2-5	6-11-8

Plate Offsets (X,Y)-- [1:0-3-9,Edge], [5:0-4-2,0-2-0], [17:0-2-12,0-3-12], [20:0-2-8,0-2-0], [21:0-10-2,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.47	19-20	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.86	Vert(CT)	-0.85	19-20	>646	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.43	10	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.34	19-20	>999		
								Weight: 257 lb	FT = 10%

LUMBER-

TOP CHORD 2x6 SPF No.2 *Except*
1-5: 2x6 SPF 1650F 1.4E
BOT CHORD 2x6 SPF No.2 *Except*
1-21,17-21: 2x6 SP DSS
WEBS 2x3 SPF No.2 *Except*
2-21: 2x6 SPF No.2, 4-17,8-17,14-17: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-11-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-4-11 oc bracing.
WEBS 1 Row at midpt 3-19, 4-17, 8-17

REACTIONS.

(size) 1=0-3-8, 10=0-3-8
Max Horz 1=-178(LC 13)
Max Uplift 1=-265(LC 8), 10=-288(LC 9)
Max Grav 1=2056(LC 1), 10=2129(LC 1)

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

TOP CHORD 1-2=-8952/1295, 2-3=-6174/830, 3-4=-4443/563, 4-6=-3088/371, 6-8=-3063/394,
8-9=-3725/474, 9-10=-4386/539
BOT CHORD 1-21=-1329/8188, 20-21=-1158/7076, 19-20=-855/5778, 18-19=-494/4023,
17-18=-494/4023, 12-14=-409/3910, 10-12=-409/3910
WEBS 2-21=-334/2309, 3-20=-20/558, 3-19=-1827/376, 4-19=-6/678, 4-17=-1491/386,
15-17=0/394, 6-17=-114/1681, 8-17=-864/315, 9-14=-629/191, 9-12=0/277,
14-17=-246/3334, 2-20=-1321/308

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1 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 100 lb uplift at joint(s) except (jt=lb) 1=265, 10=288.
- 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.



May 28, 2021

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss C1	Truss Type GABLE	Qty 1	Ply 1	Lot 126 H4	I46346046
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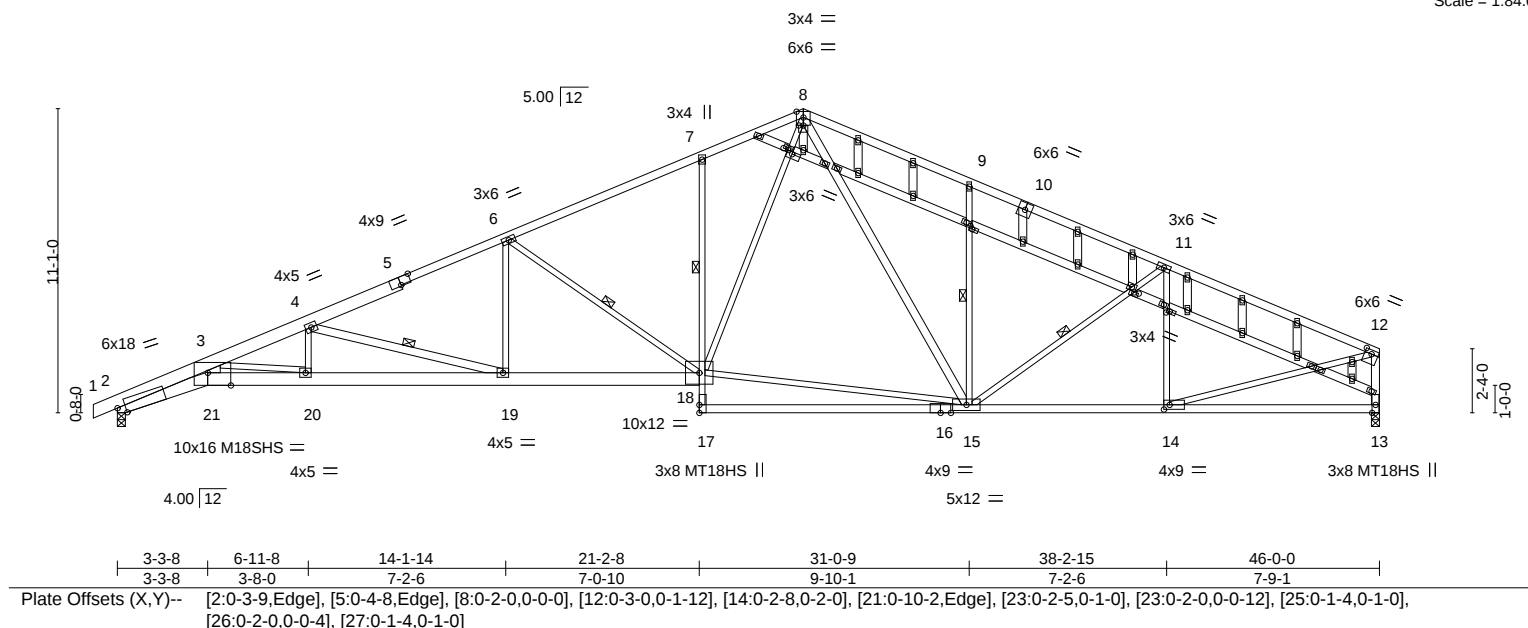
Wheeler Lumber, Waverly, KS 66871

ID: bDijNJA6?5tiTk6Ei3KUKZyAkTB-dSOGUwARdUbABPrGLTKDVCZ9aHCdEksBurWDmzBwIW
8.430 s Mar 22 2021 Mitek Industries, Inc. Fri May 28 15:36:45 2021 Page 1

Job Reference (optional)

0-10-8 3-3-8 6-11-8 14-1-14 21-2-8 25-0-0 31-0-9 38-2-15 46-0-0
0-10-8 3-3-8 3-8-0 7-2-6 7-0-10 3-9-8 6-0-9 7-2-6 7-9-1

Scale = 1:84.0



LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.47	19	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.86	Vert(CT) -0.90	15-17	>610	240	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.41	13	n/a	n/a	MT18HS	197/144
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.36	19-20	>999	240	Weight: 272 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except*	TOP CHORD Structural wood sheathing directly applied, except end verticals.
1-5: 2x6 SPF 1650F 1.4E, 10-12: 2x4 SPF 2100F 1.8E	BOT CHORD Rigid ceiling directly applied or 7-1-15 oc bracing. Except:
BOT CHORD 2x4 SPF No.2 *Except*	1 Row at midpt 7-18
2-21,18-21: 2x6 SP DSS, 7-17: 2x3 SPF No.2	WEBS 1 Row at midpt 4-19, 6-18, 9-15, 11-15
WEBS 2x4 SPF No.2 *Except*	
3-21: 2x6 SPF No.2	
3-20,4-20,6-19,6-18,15-18,8-18,9-15,11-15,11-14,12-14: 2x3 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS. (lb/size) 2=2129/0-3-8, 13=2056/0-3-8
Max Horz 2=200(LC 12)
Max Uplift 2=-301(LC 8), 13=-245(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-8905/1364, 3-4=-6168/903, 4-5=-4365/558, 5-6=-4186/589, 6-7=-3214/451,
7-8=-3169/548, 8-9=-2839/480, 9-10=-2678/360, 10-11=-2852/330, 11-12=-2865/345,
12-13=-1978/286
BOT CHORD 2-21=-1413/8140, 20-21=-1229/7038, 19-20=-954/5770, 18-19=-529/3922, 7-18=-418/213,
14-15=-272/2559
WEBS 3-21=-361/2286, 3-20=-1291/280, 4-20=-16/560, 4-19=-1925/442, 6-19=-26/721,
6-18=-1292/308, 15-18=-176/2072, 8-18=-349/1631, 8-15=-243/691, 9-15=-478/244,
11-14=-534/154, 12-14=-242/2533

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2 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 301 lb uplift at joint 2 and 245 lb uplift at joint 13.

Continued on page 2

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



May 28, 2021

Mitek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346046
210496	C1	GABLE	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS 66871

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NOTES-

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.



Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	146346047
210496	C2	Roof Special	5	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:36 2021 Page 1

ID: bDlJNJA6?5tTk6EI3KUKZyAkTB- APmMML?mEMJ0j1xUaEkwI3G5WAXH8q2oB?SfkzBy2v

0-10-8	3-3-8	6-11-6	14-1-13	21-4-4	25-0-0	31-0-10	38-0-0
0-10-8	3-3-8	3-7-15	7-2-7	7-2-7	3-7-13	6-0-10	6-11-7

6x6 =

Scale = 1:72.5

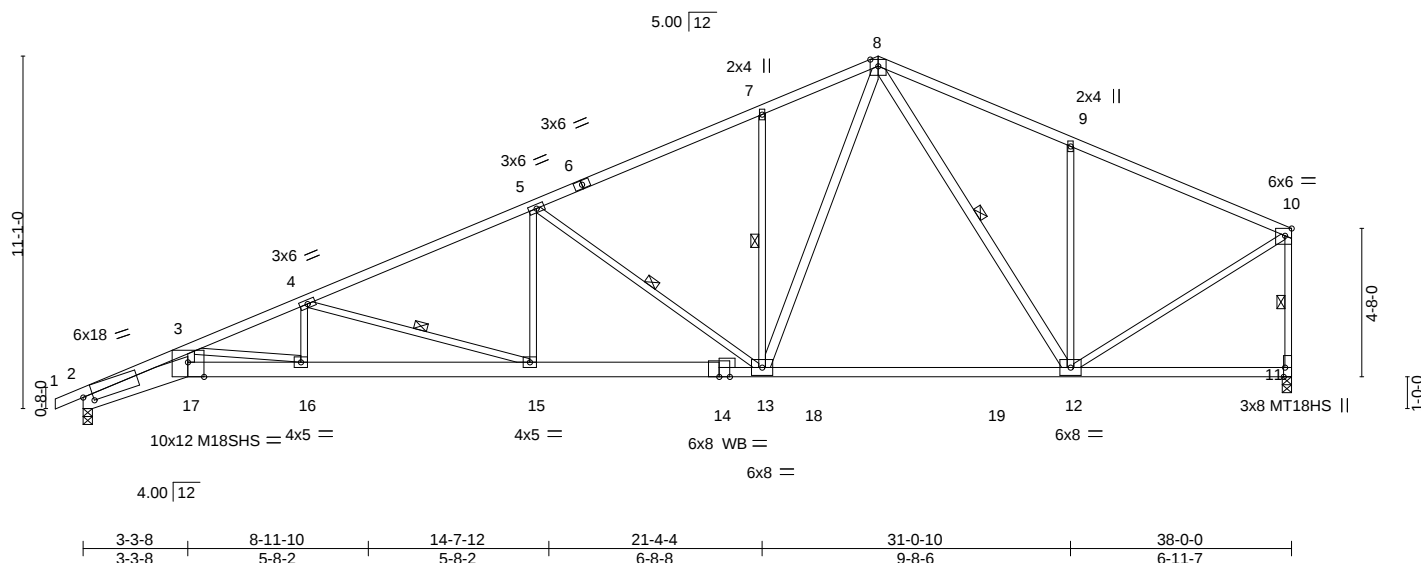


Plate Offsets (X,Y)--		[2:0-3-11,0-2-5], [10:0-2-8,Edge], [11:0-3-8,Edge], [17:0-6-2,Edge]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.91
TCDL 10.0	Lumber DOL	1.15	BC 0.80
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.93
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.41 12-13 >999 360
			Vert(CT) -0.69 12-13 >658 240
			Horz(CT) 0.26 11 n/a n/a
			Wind(LL) 0.27 16 >999 240
			PLATES
			MT20 197/144
			M18SHS 197/144
			MT18HS 197/144
			Weight: 187 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-6: 2x4 SPF 2100F 1.8E
BOT CHORD 2x8 SP DSS *Except*
14-17: 2x6 SP DSS, 11-14: 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2 *Except*
8-13,8-12: 2x4 SPF No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-7-8 oc bracing.
WEBS 1 Row at midpt 4-15, 5-13, 7-13, 8-12, 10-11

REACTIONS.

(size) 2=0-3-8, 11=0-3-8
Max Horz 2=227(LC 8)
Max Uplift 2=-274(LC 8), 11=-166(LC 9)
Max Grav 2=1833(LC 2), 11=1804(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7261/1231, 3-4=-5070/787, 4-5=-3438/516, 5-7=-2351/364, 7-8=-2315/461, 8-9=-1684/295, 9-10=-1667/224, 10-11=-1724/192
BOT CHORD 2-17=-1321/6630, 16-17=-1222/6123, 15-16=-859/4689, 13-15=-498/3107, 12-13=-118/1565
WEBS 3-17=-292/1647, 3-16=-1464/370, 4-16=-33/716, 4-15=-1655/377, 5-15=-31/717, 5-13=-1257/334, 7-13=-409/209, 8-13=-316/1507, 8-12=-356/108, 9-12=-534/278, 10-12=-138/1739

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 2 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 100 lb uplift at joint(s) except (jt=lb) 2=274, 11=166.
- 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.



May 28, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346048
210496	C3	Roof Special	2	1		

Wheeler Lumber, Waverly, KS - 66871,

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ID: bDljNJA6?5tiTk6EI3KUKZyAkTB-SMz8ZiMdXYUAetc82HmzSzcRfwWL0dYB1rl?BBzBy2u

Job Reference (optional)

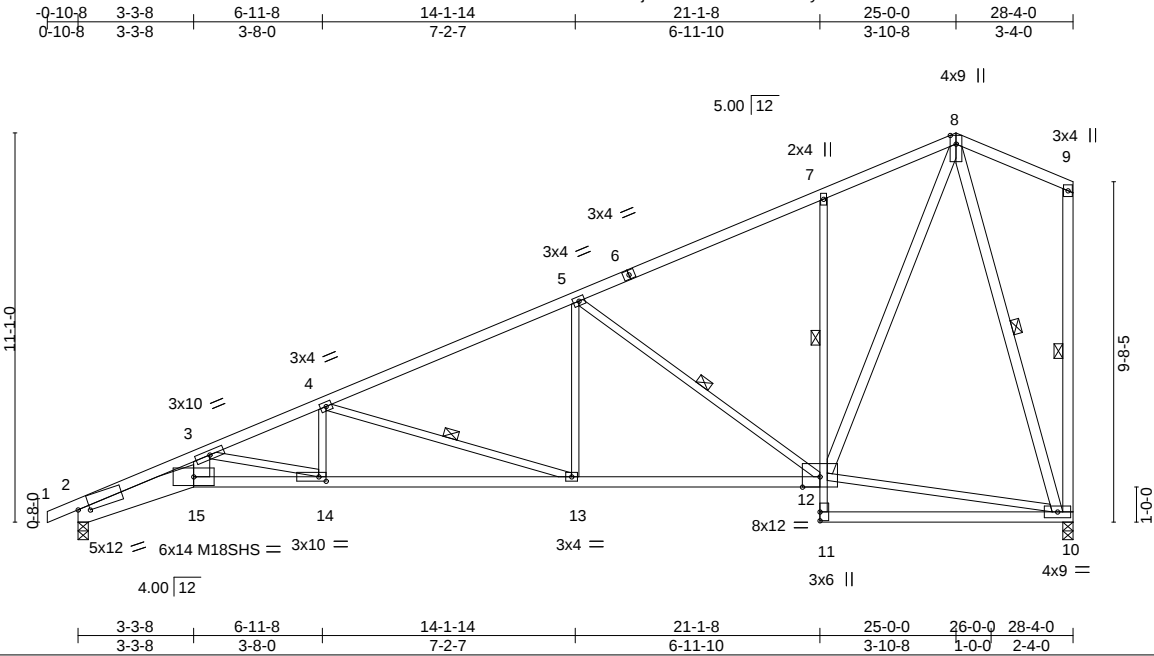


Plate Offsets (X,Y)--		[2:0-3-15,0-1-6], [14:0-2-8,0-1-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES		GRIP	
TCLL	25.0	Plate Grip DOL 1.15		TC 0.92		Vert(LL) -0.27 14-15 >999 360				MT20		197/144	
TCDL	10.0	Lumber DOL 1.15		BC 0.79		Vert(CT) -0.49 14-15 >687 240				M18SHS		197/144	
BCLL	0.0 *	Rep Stress Incr YES		WB 0.83		Horz(CT) 0.24 10 n/a n/a							
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL) 0.24 14-15 >999 240				Weight: 145 lb		FT = 10%	

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 *Except*

2-15: 2x8 SP DSS, 12-15: 2x4 SPF 2100F 1.8E, 7-11: 2x3 SPF No.2

WEBS 2x3 SPF No.2 *Except*

3-15: 2x6 SPF No.2, 8-12,9-10,8-10: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-9-11 oc purlins, except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-9-4 oc bracing. Except:

1 Row at midpt 7-12

WEBS 1 Row at midpt 4-13, 5-12, 9-10, 8-10

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

Max Horz 2=410(LC 7)

Max Uplift 2=-216(LC 8), 10=-223(LC 8)

Max Grav 2=1335(LC 1), 10=1261(LC 1)

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

TOP CHORD 2-3=-5496/1064, 3-4=-3246/565, 4-5=-1996/333, 5-7=-1003/211, 7-8=-963/308

BOT CHORD 2-15=-1168/5033, 14-15=-1018/4360, 13-14=-647/2996, 12-13=-322/1758, 7-12=-409/213

WEBS 3-15=-325/1561, 3-14=-1404/382, 4-14=-12/443, 4-13=-1298/341, 5-13=-6/575, 5-12=-1155/299, 10-12=-149/297, 8-12=-339/1361, 8-10=-1173/202

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 2 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 100 lb uplift at joint(s) except (jt=lb) 2=216, 10=223.
 - 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.



May 28,2021

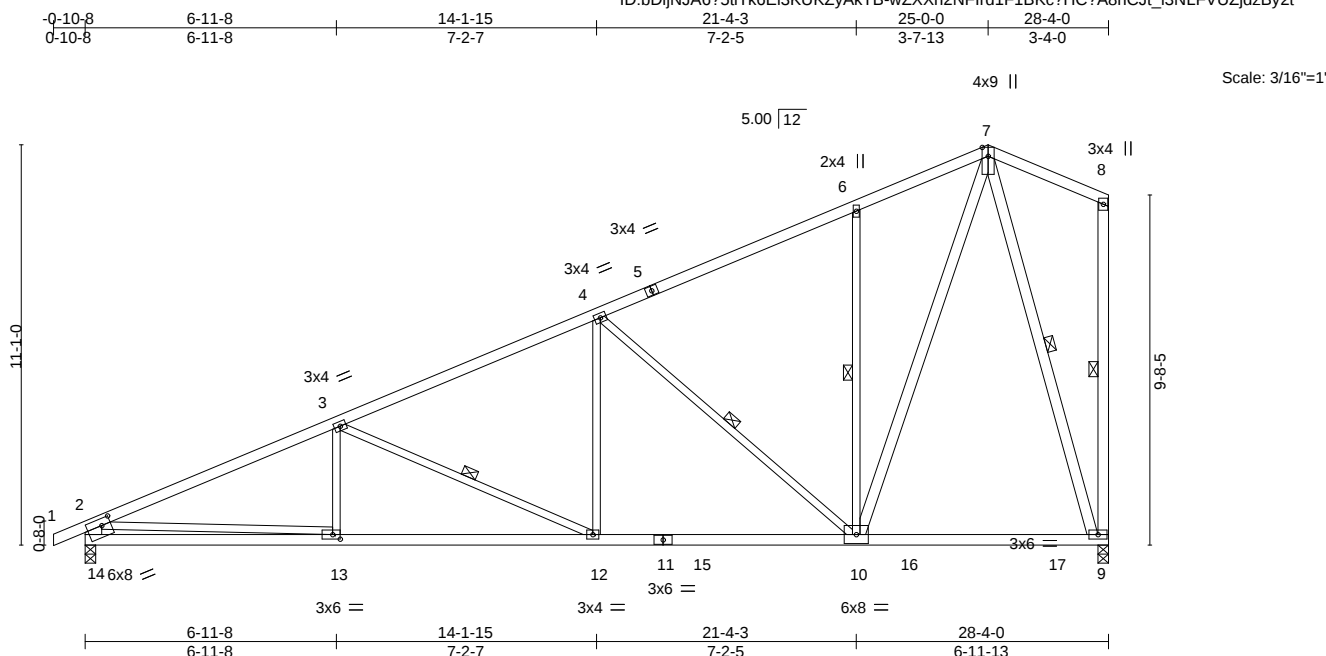


Plate Offsets (X,Y)-- [13:0-2-8,0-1-8], [14:0-3-0,0-2-4]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES GRIP		
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.14	12-13	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.27	12-13	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.06	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.09	12-13	>999	240	Weight: 138 lb	FT = 10%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
7-10,8-9,7-9: 2x4 SPF No.2, 2-14: 2x6 SPF No.2

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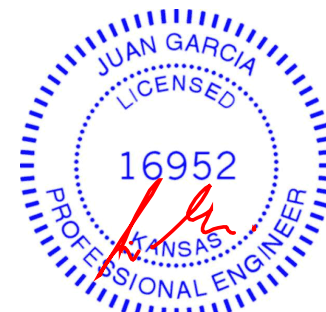
REACTIONS. (size) 14=0-3-8, 9=0-3-8
 Max Horz 14=417(LC 5)
 Max Uplift 14=-216(LC 8), 9=-223(LC 8)
 Max Grav 14=1385(LC 2), 9=1369(LC 2)

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

TOP CHORD	2-3=-2427/347, 3-4=-1774/281, 4-6=-947/196, 6-7=-918/296, 2-14=-1268/252
BOT CHORD	13-14=-408/763, 12-13=-452/2167, 10-12=-272/1569, 9-10=-125/347
WEBS	3-12=-658/198, 4-12=0/555, 4-10=-1025/271, 6-10=-419/219, 7-10=-336/1404, 2-13=-82/1407, 7-9=-1195/186

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=216, 9=223.
- 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.



May 28, 2021

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH-7473 (REV. 3/19/2020) BEFORE USE.

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

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



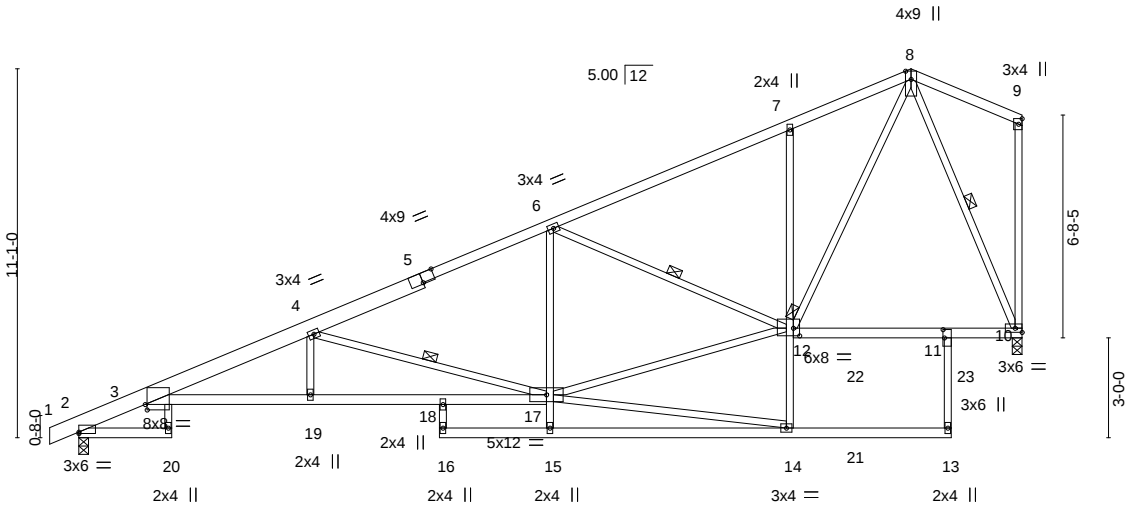
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346050
210496	C5	Roof Special	1	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:40 2021 Page 1
ID:bDljNJA6?5tiTk6Ei3KUKZyAkTB-sxfHCjOWqTtiVLLijPJg4bEyh7ZLDzddjozfoWzBy2r

0-10-8	2-9-8	6-11-8	10-10-0	14-1-13	21-4-5	25-0-0	28-4-0
0-10-8	2-9-8	4-2-0	3-10-9	3-3-13	7-2-8	3-7-11	3-4-0



	2-9-8	6-11-8	10-10-0	14-1-13	21-4-5	25-0-0	26-2-8	28-4-0
	2-9-8	4-2-0	3-10-9	3-3-13	7-2-8	3-7-11	1-2-8	2-1-8
Plate Offsets (X,Y)--	[2:0-0-0,0-0-8], [3:0-0-11,0-1-15], [5:0-4-8,Edge], [11:0-3-0,0-0-8], [12:0-2-4,0-2-12]							
LOADING (psf)	SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES GRIP
TCLL 25.0	Plate Grip DOL 1.15		TC 0.93		Vert(LL) -0.36 20 >944 360			MT20 197/144
TCDL 10.0	Lumber DOL 1.15		BC 0.71		Vert(CT) -0.62 20 >547 240			
BCLL 0.0 *	Rep Stress Incr YES		WB 0.87		Horz(CT) 0.30 10 n/a n/a			
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL) 0.30 20 >999 240			Weight: 153 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-5: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
3-17: 2x4 SPF 2100F 1.8E, 16-18,11-13: 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

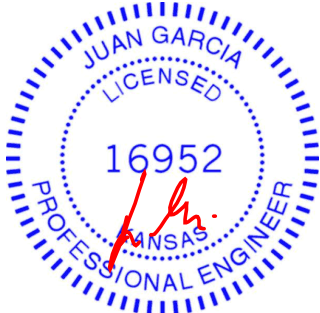
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-17, 8-10, 6-12
JOINTS 1 Brace at Jt(s): 12

REACTIONS. (size) 2=0-3-8, 10=0-3-8
Max Horz 2=361(LC 5)
Max Uplift 2=-203(LC 8), 10=-226(LC 8)
Max Grav 2=1432(LC 2), 10=1460(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-802/0, 3-4=-3649/606, 4-6=-2184/339, 6-7=-1381/247, 7-8=-1353/344
BOT CHORD 3-19=-790/3481, 18-19=-790/3481, 17-18=-760/3458, 11-12=-111/472, 10-11=-112/500
WEBS 4-19=0/298, 4-17=-1630/428, 12-14=0/306, 7-12=-435/222, 8-12=-368/1682, 8-10=-1275/219, 15-17=0/266, 6-17=0/302, 6-12=-788/226, 12-17=-396/1943

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=203, 10=226.
- 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.



May 28,2021

Job 210496	Truss C6	Truss Type Roof Special	Qty 3	Ply 1	Lot 126 H4	I46346051
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:41 2021 Page 1

ID:bDljNJA6?5tiTk6EI3KUKZyAkTB-K8DfP3P8am?c6VvvH7qvdpm8dXwNyQMnxSjDKyzBy2q

0-10-8	2-9-8	6-11-6	14-1-14	17-9-0	21-4-3	25-0-0	28-4-0
0-10-8	2-9-8	4-1-14	7-2-7	3-7-2	3-7-3	3-7-13	3-4-0

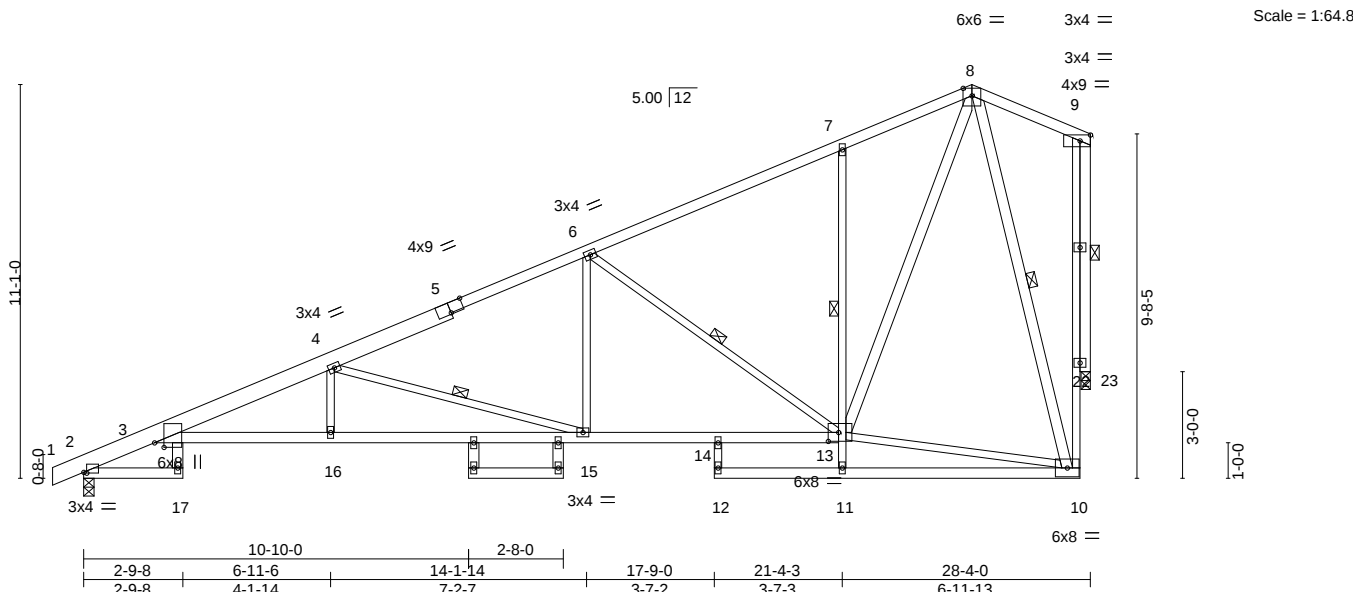


Plate Offsets (X,Y)--	[2:0-1-0,0-0-4], [3:0-1-9,0-3-3], [5:0-4-8,Edge], [13:0-3-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.31	17	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.56	17	>600	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.44	23	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.30	17	>999	240	Weight: 164 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
1-5: 2x6 SP 2400F 2.0E
BOT CHORD 2x4 SPF No.2 *Except*
3-13: 2x4 SPF 2100F 1.8E, 12-14: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
3-17,8-13,8-10,18-20,19-21: 2x4 SPF No.2
OTHERS 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 4-15, 6-13, 8-10, 7-11, 9-23

REACTIONS.

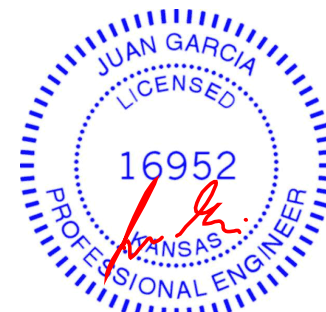
(size) 2=0-3-8, 23=0-3-2
Max Horz 2=358(LC 8)
Max Uplift 2=177(LC 8), 23=253(LC 8)
Max Grav 2=1349(LC 1), 23=1239(LC 1)

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

TOP CHORD 2-3=-626/0, 3-4=-3382/551, 4-6=-2015/281, 6-7=-998/139, 7-8=-978/244,
10-22=-220/1123, 9-22=-220/1123
BOT CHORD 3-16=-817/3217, 15-16=-816/3217, 14-15=-401/1750, 13-14=-382/1700
WEBS 4-16=0/271, 4-15=-1531/434, 6-15=-39/599, 6-13=-1145/312, 8-13=-348/1384,
8-10=-1138/268, 10-13=-65/274, 11-13=0/269, 7-13=-444/225, 9-23=-1240/253

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 23 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 100 lb uplift at joint(s) except (jt=lb) 2=177, 23=253.
- 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.



May 28, 2021

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346052
210496	C7	Roof Special	1	1		

Wheeler Lumber,
Waverly, KS - 66871,

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ID:bDljnJA675tiTk6EI3KUKZyAkTB-pKn1dPQmL47TkeU5rqL890JLxGbhutwA6SmsOzBy2p

Job Reference (optional)

0-10-8 2-9-8 6-11-6 14-1-14 21-1-8 25-0-0 28-4-0
0-10-8 2-9-8 4-1-14 7-2-7 6-11-10 3-10-8 3-4-0

6x6 =

Scale = 1:65.6

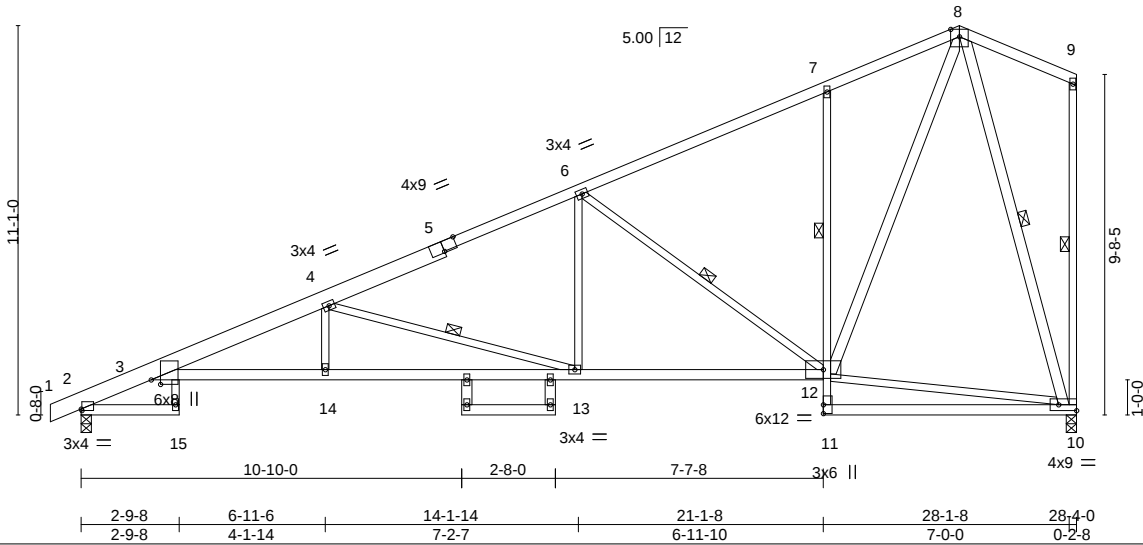


Plate Offsets (X,Y)--	[2:0-0-4,0-0-8], [3:0-1-9,0-3-3], [5:0-4-8,Edge], [10:Edge,0-2-0]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.31 15	>999 360
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.57 15	>594 240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT)	0.34 10	n/a n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.32 15	>999 240
					PLATES	GRIP
					MT20	197/144
					Weight: 152 lb	FT = 10%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 1-5: 2x6 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 2-2-1 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 3-12: 2x4 SPF 2100F 1.8E, 7-11: 2x3 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 1 Row at midpt 7-12
WEBS 2x3 SPF No.2 *Except* 8-12,8-10,16-18,17-19: 2x4 SPF No.2	WEBS 1 Row at midpt 4-13, 6-12, 9-10, 8-10

REACTIONS.	(size) 2=0-3-8, 10=0-3-8 Max Horz 2=412(LC 8) Max Uplift 2=-175(LC 8), 10=-254(LC 8) Max Grav 2=1351(LC 1), 10=1264(LC 1)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-625/0, 3-4=-3389/573, 4-6=-2018/285, 6-7=-1007/148, 7-8=-974/248
BOT CHORD	3-14=-895/3224, 13-14=-894/3224, 12-13=-458/1753, 7-12=-430/218
WEBS	4-14=0/265, 4-13=-1536/456, 6-13=-36/609, 6-12=-1137/304, 8-12=-355/1373, 10-12=-90/295, 8-10=-1182/297

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=175, 10=254.
 - 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.



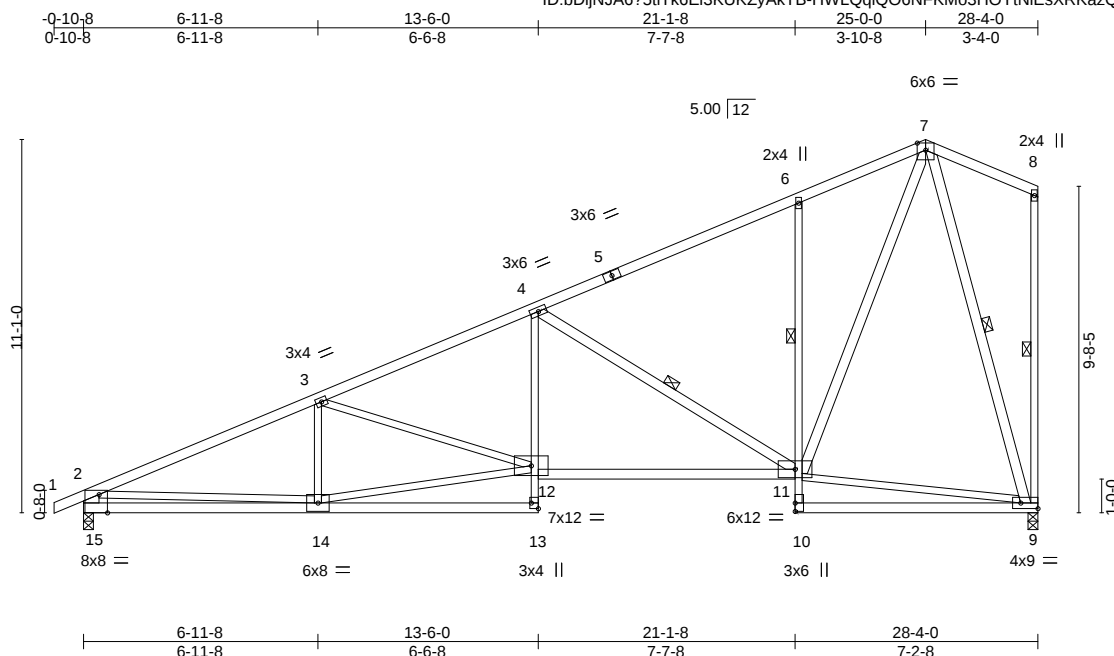
May 28,2021

Job 210496	Truss C8	Truss Type Roof Special	Qty 1	Ply 1	Lot 126 H4	I46346053
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Wheeler Lumber, Waverly, KS - 66871,

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ID:bDijNJA675tiTk6EI3KUKZyAkTB-HWLQlQO6NFKMo3HOYtNiEsXRKazQMn4PmCKOqzBy2o



Scale = 1:68.4

Plate Offsets (X,Y)-- [9:Edge,0-2-0], [13:Edge,0-2-8], [15:0-3-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.17 11-12 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.71	Vert(CT)	-0.39 11-12 >865 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.10 9 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.11 11-12 >999 240	Weight: 146 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 4-13,6-10: 2x3 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 4-11,7-11,7-9: 2x4 SPF No.2, 2-15: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-2-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-11-7 oc bracing. Except:
 1 Row at midpt 6-11
 WEBS 1 Row at midpt 4-11, 8-9, 7-9

REACTIONS.

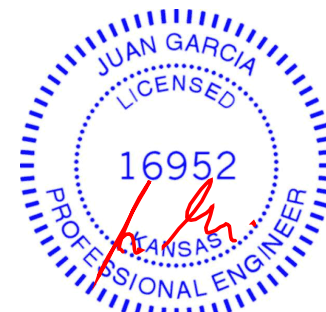
(size) 15=0-3-8, 9=0-3-8
 Max Horz 15=400(LC 8)
 Max Uplift 15=184(LC 8), 9=254(LC 8)
 Max Grav 15=1339(LC 1), 9=1258(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2309/270, 3-4=-2131/327, 4-6=-1025/145, 6-7=-983/253, 2-15=-1268/221
 BOT CHORD 14-15=-545/792, 4-12=-47/583, 11-12=-515/1912, 6-11=-463/240
 WEBS 3-14=-314/189, 12-14=-541/2013, 4-11=-1258/353, 7-11=-362/1386, 2-14=-23/1252,
 7-9=-1178/294, 9-11=-74/324

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=184, 9=254.
- 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.



May 28, 2021

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



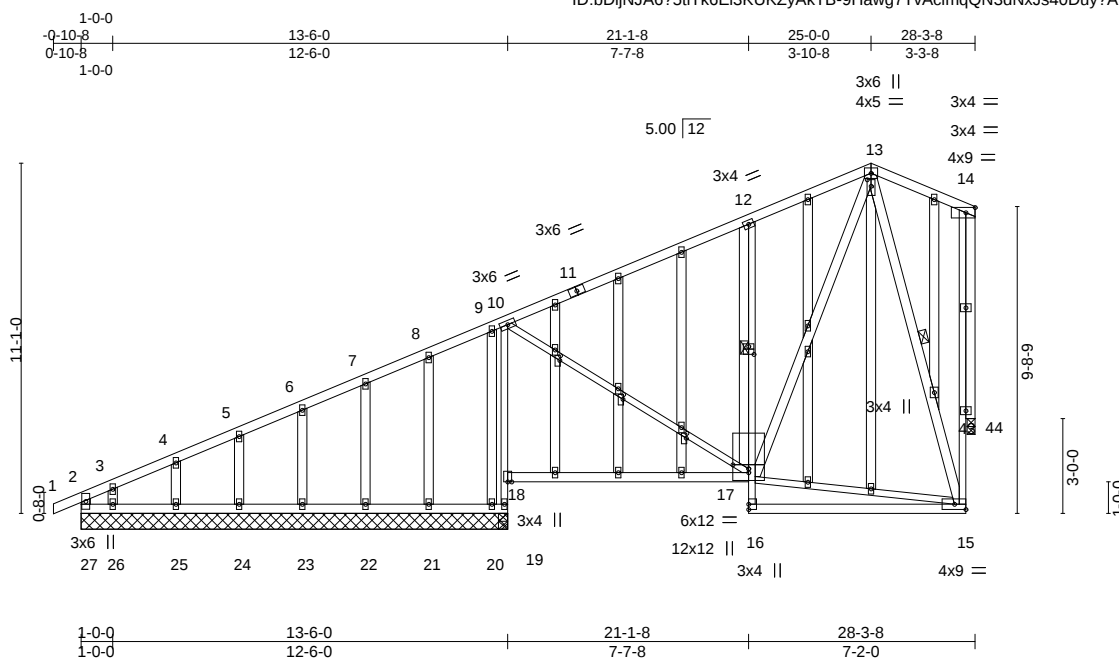
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 210496	Truss C9	Truss Type GABLE	Qty 1	Ply 1	Lot 126 H4	I46346054
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Wheeler Lumber, Waverly, KS - 66871,

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ID: bDljNJA6?5tTK6EI3KUKZyAkTB-9Hawg7TvAclmqQN3dNxJs40Duy?AMGXfKOAXYczBy2k



Scale = 1:72.9

Plate Offsets (X,Y)-- [12:0-2-0,3-7-7], [13:0-2-7,0-1-8], [17:0-1-8,0-6-0], [34:0-1-13,0-0-4], [37:0-1-13,0-0-4], [40:0-1-13,0-0-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.61	Vert(LL)	-0.13 17-18 >999 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.57	Vert(CT)	-0.26 17-18 >688 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.35	Horz(CT)	-0.18 44 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.02 15-16 >999 240	Weight: 215 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 10-19,12-16: 2x3 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 10-17,14-15,15-17: 2x3 SPF No.2
 OTHERS 2x4 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, Except:
 4-9-15 oc bracing: 18-19
 10-0-0 oc bracing: 16-17.
 1 Row at midpt 12-17
 1 Row at midpt 13-15

REACTIONS.

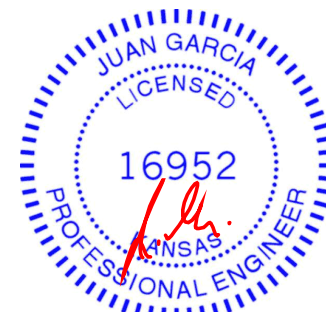
All bearings 13-6-0 except (jt=length) 44=0-3-0.
 (lb) - Max Horz 27=347(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 27, 20, 22, 23, 24, 25 except
 19=360(LC 8), 26=190(LC 8), 44=131(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) 27, 20, 21, 22, 23, 24, 25, 26
 except 19=985(LC 1), 19=985(LC 1), 44=604(LC 1)

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

TOP CHORD 2-3=-318/114, 3-4=-262/109, 10-12=-441/29, 12-13=-405/137, 15-43=-99/494,
 14-43=-99/494
 BOT CHORD 18-19=-1001/289, 10-18=-921/337, 12-17=-471/242
 WEBS 10-17=-12/400, 13-15=-463/143, 13-17=-177/461, 14-44=-605/131

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 44 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 100 lb uplift at joint(s) 27, 20, 22, 23, 24, 25 except (jt=lb) 19=360, 26=190, 44=131.
- 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.



May 28, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	146346055
210496	D1	Roof Special	4	1		

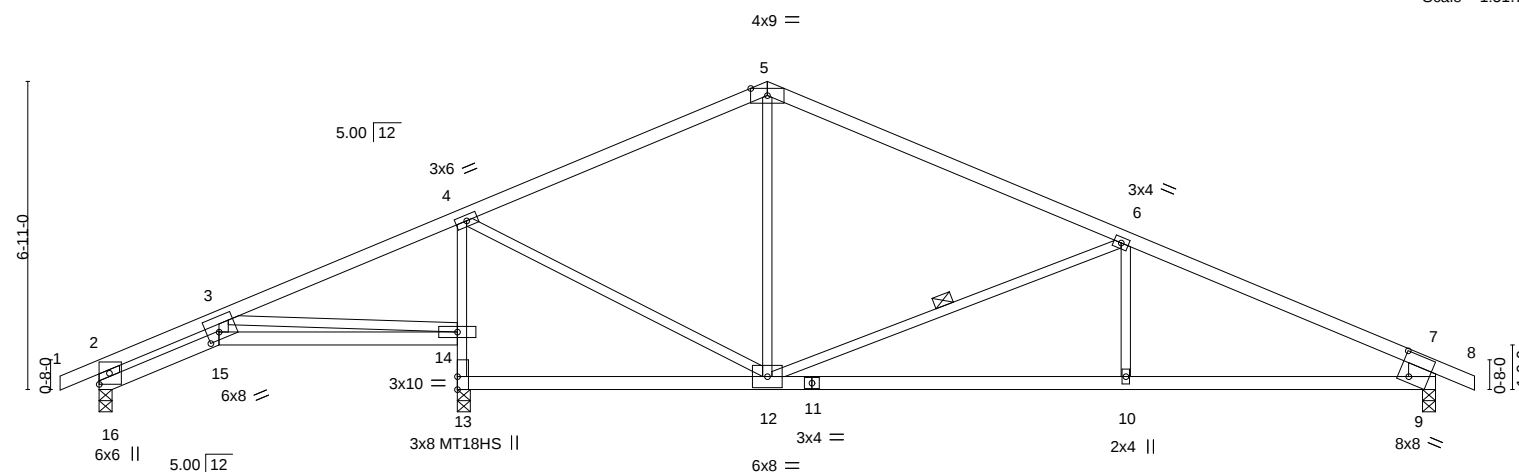
Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:50 2021 Page 1

ID: bDljNJA6?5tiTk6EI3KUKZyAkTB-asG3l8WnTX7Kht5dJWV0Uiefk9zPZZv60MOB8wzBy2h

0-10-8	2-8-5	8-0-8	15-0-0	23-0-9	30-0-0	30-10-8
0-10-8	2-8-5	5-4-3	6-11-8	8-0-9	6-11-7	0-10-8

Scale = 1:51.7



	2-8-5	8-0-8	8-2-4	15-0-0	23-0-9	30-0-0
	2-8-5	5-4-3	0-1-12	6-9-12	8-0-9	6-11-7

Plate Offsets (X,Y)-- [9:0-2-13,0-6-6], [15:0-3-4,0-2-0]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.96	Vert(LL)	-0.13 10-12 >999	360	MT20 197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.28 10-12 >936	240	MT18HS 197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.57	Horz(CT)	-0.03 13 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.09 10-12 >999	240	
								Weight: 103 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 4-13: 2x3 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 2-16: 2x6 SPF No.2, 7-9: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 3-0-7 oc bracing.
 WEBS 1 Row at midpt 6-12

REACTIONS.

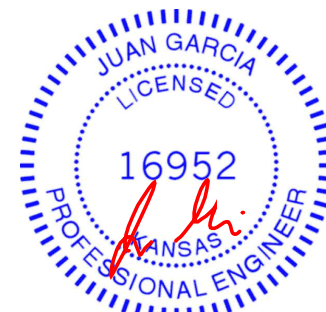
(size) 16=0-3-8, 13=0-3-8, 9=0-3-8
 Max Horz 16=100(LC 8)
 Max Uplift 16=60(LC 4), 13=-212(LC 8), 9=-192(LC 9)
 Max Grav 16=312(LC 21), 13=1511(LC 1), 9=1003(LC 1)

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

TOP CHORD 2-16=-409/104, 2-3=-511/105, 3-4=-83/378, 4-5=-770/224, 5-6=-783/196,
 6-7=-1558/299, 7-9=-906/222
 BOT CHORD 15-16=-171/440, 14-15=-160/381, 13-14=-1467/247, 4-14=-1326/253, 10-12=-199/1345,
 9-10=-199/1345
 WEBS 3-14=-605/216, 4-12=0/953, 6-12=-805/250, 6-10=0/274

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 16 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 100 lb uplift at joint(s) 16 except (jt=lb) 13=212, 9=192.
- 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.



May 28, 2021

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16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	146346056
210496	D2	Roof Special Supported Gable	1	1	Job Reference (optional)	

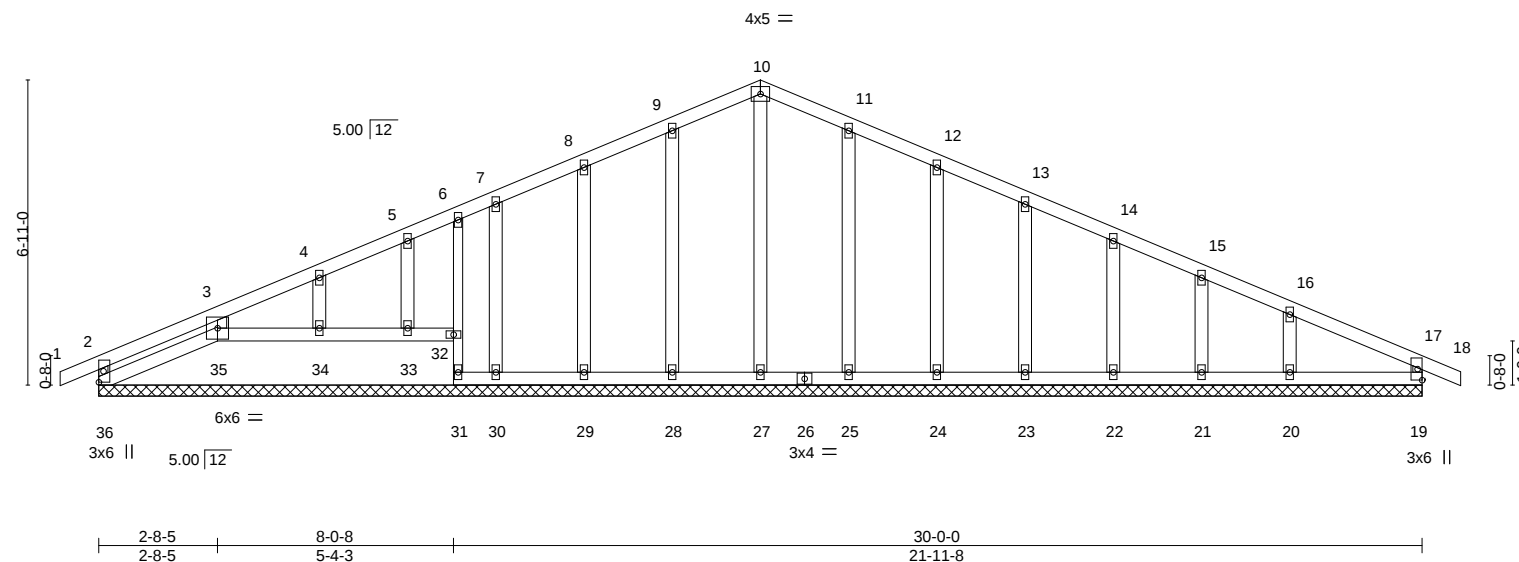
Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:51 2021 Page 1

ID:bDljNJA6?5tiTk6EI3KUKZyAkTB-23pRVUXPERFBj1gqsD0F1wB19ZTwl7FF08lhNzBy2g

0-10-8 2-8-5 8-0-8 15-0-0 30-0-0 30-10-8
0-10-8 2-8-5 5-4-3 6-11-8 15-0-0 0-10-8

Scale = 1:52.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	0.00 17	n/r	120	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	0.00 18	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.01 19	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R						
								Weight: 128 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
6-31: 2x3 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x4 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 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 35-36.

REACTIONS.

All bearings 30-0-0.
(lb) - Max Horz 36=102(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 36, 19, 35, 32, 31, 28, 29, 30, 33, 34, 25, 24, 23, 22, 21, 20
Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 32, 31, 27, 28, 29, 30, 33, 34, 25, 24, 23, 22, 21, 20

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 32 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 100 lb uplift at joint(s) 36, 19, 35, 32, 31, 28, 29, 30, 33, 34, 25, 24, 23, 22, 21, 20.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 35, 33, 34.
- 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.



May 28, 2021

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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



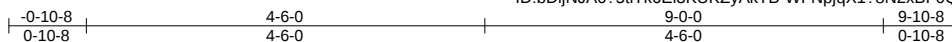
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss E1	Truss Type GABLE	Qty 1	Ply 1	Lot 126 H4	I46346057
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Wheeler Lumber, Waverly, KS - 66871,

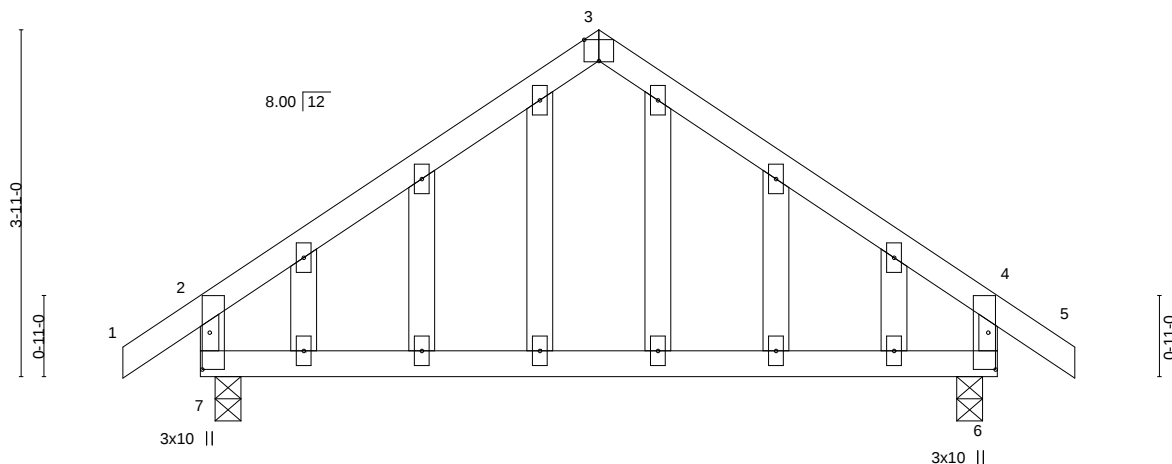
8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:52 2021 Page 1

ID: bDljNJA6?5tiTk6EI3KUKZyAkTB-WFNpjQX1?8N2xBF0QxxUZ7j8Ozk_1bFOTgtDpzBy2f



3x4 =

Scale = 1:26.0



0-2-0 0-2-0	8-10-0 8-8-0	9-0-0 0-2-0
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Plate Offsets (X,Y)-- [3:0-2-0,Edge], [6:0-5-0,0-1-0], [7:0-5-0,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.19	6-7	>569	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	-0.36	6-7	>292	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	6	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.01	6-7	>999	240	
								Weight: 40 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF 2100F 1.8E
WEBS 2x3 SPF No.2
OTHERS 2x4 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 10-0-0 oc bracing.

REACTIONS.

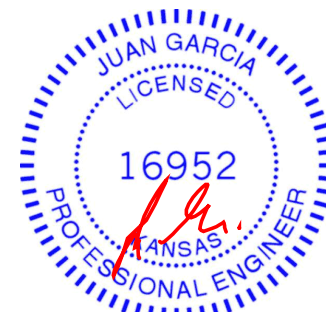
(size) 7=0-3-8, 6=0-3-8
Max Horz 7=119(LC 7)
Max Uplift 7=-66(LC 8), 6=-66(LC 9)
Max Grav 7=464(LC 1), 6=464(LC 1)

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

TOP CHORD 2-3=-352/105, 3-4=-352/105, 2-7=-376/122, 4-6=-376/122

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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 2x4 MT20 unless otherwise indicated.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 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.



May 28, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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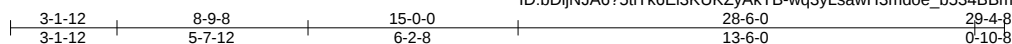
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss E2	Truss Type GABLE	Qty 1	Ply 1	Lot 126 H4 I46346058
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:55 2021 Page 1

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Scale = 1:68.1

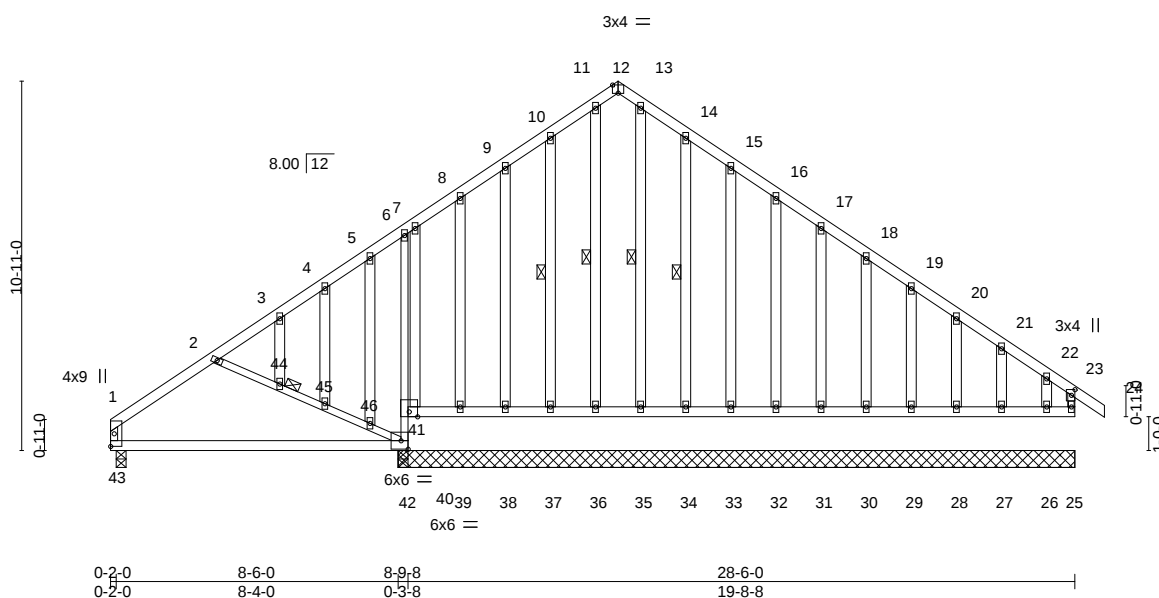


Plate Offsets (X,Y)-- [12:0-2-0,Edge], [23:0-2-0,0-1-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.19 42-43 >534 360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.38 42-43 >270 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.22	Horz(CT)	0.03 25 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	-0.01 42-43 >999 240		
								Weight: 193 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
6-42: 2x3 SPF No.2
WEBS 2x3 SPF No.2
OTHERS 2x4 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, Except:
10-0-0 oc bracing: 42-43,41-42.
WEBS 1 Row at midpt 10-37, 11-36, 13-35, 14-34
JOINTS 1 Brace at Jt(s): 44

REACTIONS.

All bearings 20-0-0 except (jt=length) 43=0-3-8.
(lb) - Max Horz 43=-285(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 43, 25, 42, 33, 38, 37, 36, 32, 31, 30, 29, 28, 27, 35, 34 except 41=-437(LC 9), 40=-314(LC 16), 26=-195(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 25, 42, 33, 39, 38, 37, 36, 32, 31, 30, 29, 28, 27, 35, 26, 34 except 43=365(LC 16), 41=551(LC 16), 42=250(LC 15), 40=346(LC 9)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-392/113, 10-11=-160/256, 1-43=-270/81
BOT CHORD 42-43=-130/361, 6-41=-346/212
WEBS 2-44=-335/219, 44-45=-338/220, 45-46=-354/231, 42-46=-355/231

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; 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.
- N/A
- All plates are 2x4 MT20 unless otherwise indicated.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 41 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 100 lb uplift at joint(s) 43, 25, 42, 33, 38, 37, 36, 32, 31, 30, 29, 28, 27, 35, 34 except (jt=lb) 41=437, 40=314, 26=195.
- 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.



May 28,2021

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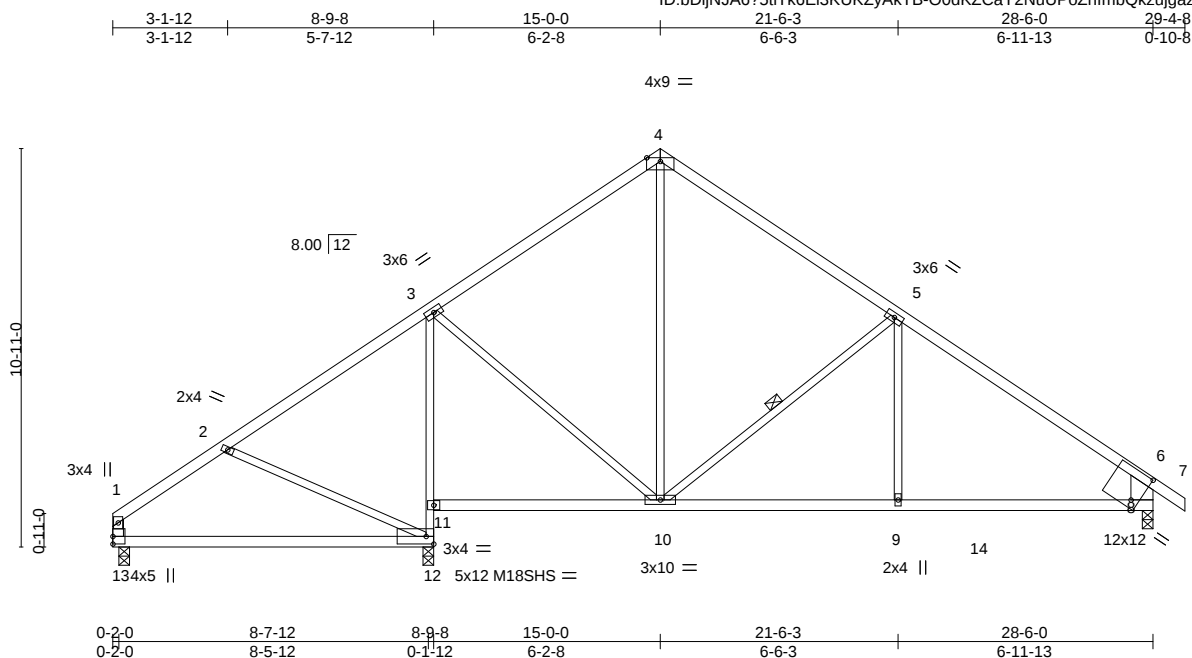
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss E3	Truss Type Roof Special	Qty 1	Ply 1	Lot 126 H4	I46346059
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:56 2021 Page 1

ID: bDljNJA675tiTk6EI3KUKZyAKTB-O0dKZCaY2NuUPoZnfmbQkzujgaz2zJD_OlrWMazBy2b



Scale = 1:63.1

Plate Offsets (X,Y)--		[8:0-2-7,0-9-7]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.19 12-13 >551 360	MT20	197/144		
TCDL	10.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.37 12-13 >277 240	M18SHS	197/144		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.39	Horz(CT)	-0.03 8 n/a n/a				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.03 9-10 >999 240	Weight: 110 lb	FT = 10%		

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 3-12: 2x3 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 1-13: 2x4 SPF No.2, 6-8: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 4-1-6 oc bracing.
 WEBS 1 Row at midpt 5-10

REACTIONS.

(size) 13=0-3-8, 8=0-3-8, 12=0-3-8
 Max Horz 13=-287(LC 6)
 Max Uplift 13=-78(LC 9), 8=-161(LC 9), 12=-234(LC 8)
 Max Grav 13=425(LC 16), 8=1063(LC 16), 12=1532(LC 15)

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

TOP CHORD 1-2=-402/173, 2-3=-239/259, 3-4=-688/235, 4-5=-646/200, 5-6=-1168/188,
 1-13=-263/124, 6-8=-919/204
 BOT CHORD 12-13=-147/345, 11-12=-1242/205, 3-11=-1143/237, 9-10=-38/819, 8-9=-38/819
 WEBS 2-12=-348/195, 3-10=0/566, 4-10=-107/266, 5-10=-604/241, 5-9=0/283

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 8=161, 12=234.
- 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.



May 28, 2021

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



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346060
210496	E4	Roof Special	2	1		

Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:57 2021 Page 1

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4x9 =

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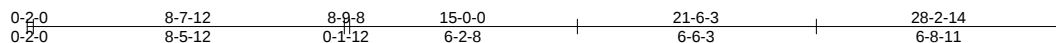
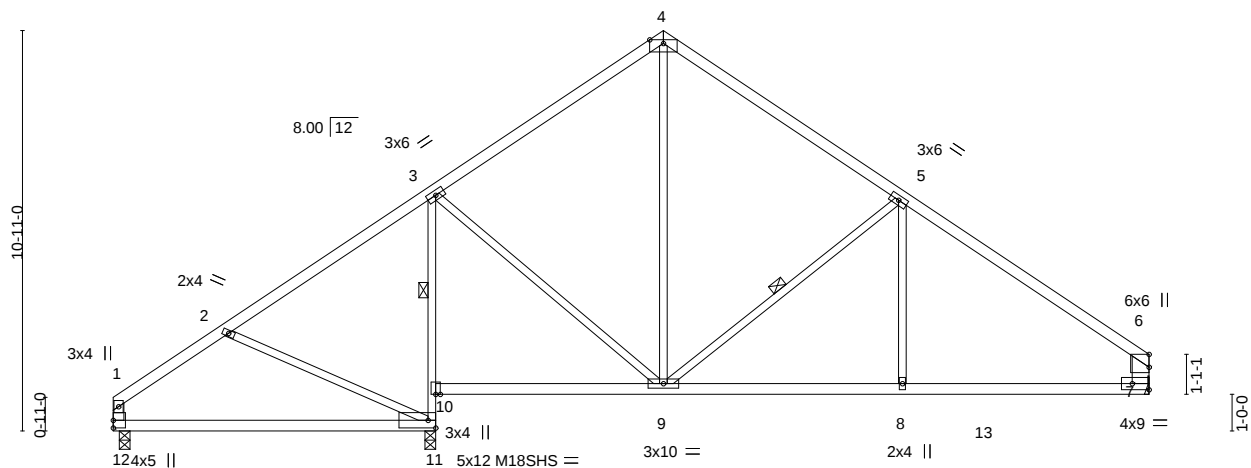


Plate Offsets (X,Y)-- [6:0-4-3,0-0-0], [7:Edge,0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	-0.19 11-12	>536	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.39 11-12	>266	240	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.37	Horz(CT)	-0.04 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.07 8-9	>999	240		
								Weight: 108 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-11: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
1-12: 2x4 SPF No.2, 6-7: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-9-2 oc bracing. Except:
1 Row at midpt 3-10
WEBS 1 Row at midpt 5-9

REACTIONS.

(size) 12=0-3-8, 7=Mechanical, 11=0-3-8
Max Horz 12=285(LC 5)
Max Uplift 12=-53(LC 9), 7=-123(LC 9), 11=-247(LC 8)
Max Grav 12=377(LC 16), 7=954(LC 16), 11=1578(LC 15)

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

TOP CHORD 1-2=-330/137, 2-3=-198/319, 3-4=-649/219, 4-5=-607/183, 5-6=-1090/167, 6-7=-784/159
BOT CHORD 11-12=-151/295, 10-11=-1286/216, 3-10=-1184/248, 8-9=-56/768, 7-8=-56/768
WEBS 2-11=-358/197, 3-9=0/604, 5-9=-575/237, 5-8=0/254

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 7=123, 11=247.
- 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.



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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

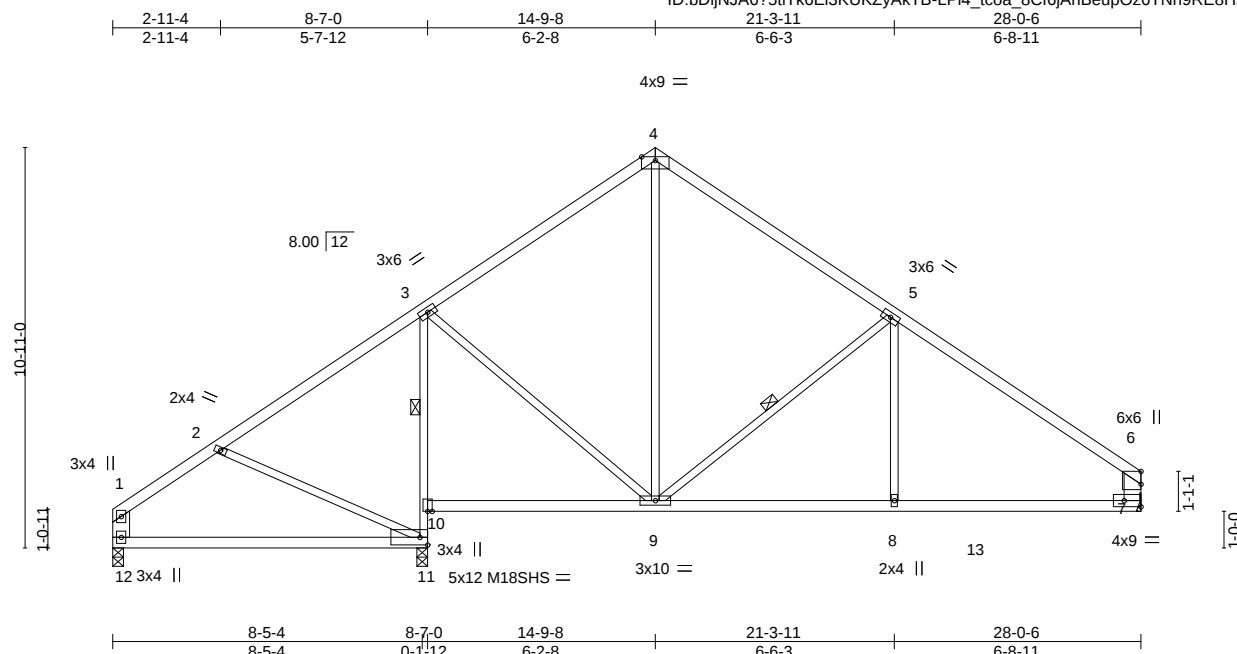


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346061
210496	E5	Roof Special	4	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:04:58 2021 Page 1
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Scale = 1:62.8

Plate Offsets (X,Y)--	[6:0-4-3,0-0-0], [7:Edge,0-2-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.59	Vert(LL)	-0.16 11-12	>611	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.80	Vert(CT)	-0.33 11-12	>303	240	M18SHS	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.36	Horz(CT)	-0.04 7	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05 8-9	>999	240	Weight: 108 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-11: 2x3 SPF No.2
WEBS 2x3 SPF No.2 *Except*
1-12,6-7: 2x6 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-9-3 oc bracing. Except:
1 Row at midpt 3-10
WEBS 1 Row at midpt 5-9

REACTIONS.

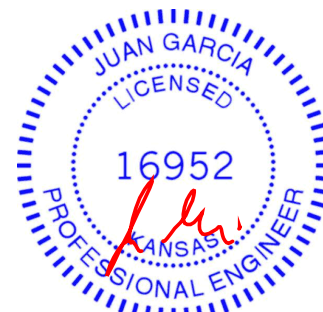
(size) 12=0-3-8, 7=Mechanical, 11=0-3-8
Max Horz 12=229(LC 5)
Max Uplift 12=-16(LC 4), 7=-21(LC 9), 11=-62(LC 8)
Max Grav 12=339(LC 14), 7=940(LC 14), 11=1564(LC 13)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-271/92, 2-3=-145/311, 3-4=-628/124, 4-5=-594/103, 5-6=-1073/57, 6-7=-770/61
BOT CHORD 11-12=-123/253, 10-11=-1288/64, 3-10=-1185/97, 8-9=0/760, 7-8=0/760
WEBS 2-11=-340/112, 3-9=0/617, 5-9=-562/129, 5-8=0/255

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 7, 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.



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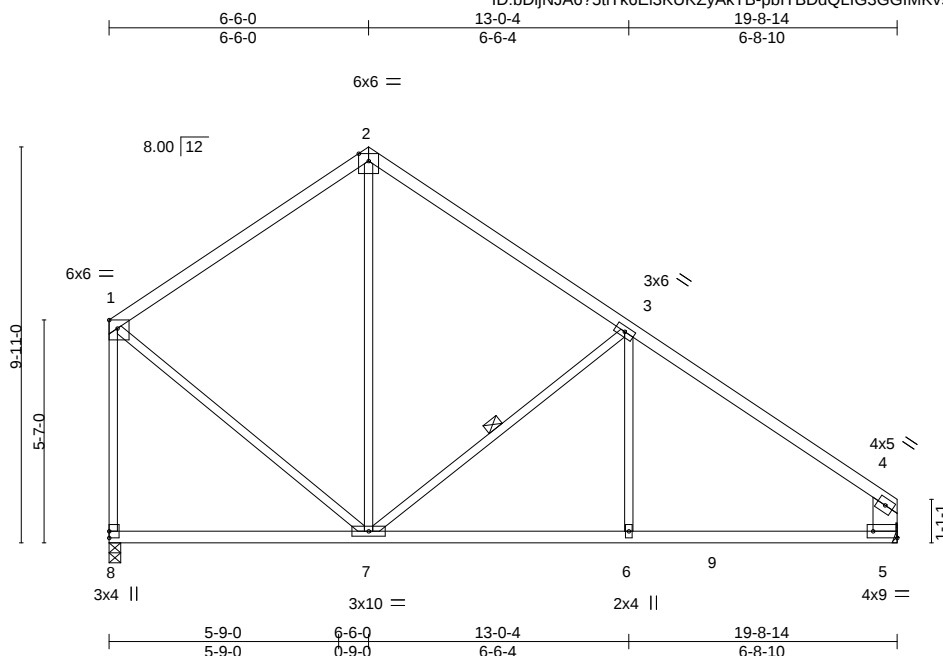
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346062
210496	E6	Common	4	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

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Scale = 1:57.7

Plate Offsets (X,Y)--		[1:Edge,0-2-9], [5:Edge,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 25.0	Plate Grip DOL	1.15	TC 0.76
TCDL 10.0	Lumber DOL	1.15	BC 0.88
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-S
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.16 6-7 >999 360
			Vert(CT) -0.28 6-7 >820 240
			Horz(CT) 0.02 5 n/a n/a
			Wind(LL) 0.05 6-7 >999 240
			PLATES
			MT20
			GRIP
			197/144
			Weight: 81 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
4-5: 2x8 SP DSS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-6-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-7

REACTIONS.

(size) 8=0-3-8, 5=Mechanical
Max Horz 8=-259(LC 4)
Max Uplift 8=-13(LC 9), 5=-6(LC 9)
Max Grav 8=948(LC 14), 5=957(LC 14)

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

TOP CHORD 1-2=-633/98, 2-3=-672/80, 3-4=-1088/36, 1-8=-858/47, 4-5=-781/48
BOT CHORD 6-7=0/805, 5-6=0/805
WEBS 2-7=-11/250, 3-7=-534/131, 1-7=-5/624

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 5.
- 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.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss G1	Truss Type GABLE	Qty 1	Ply 2	Lot 126 H4 Job Reference (optional)	I46346063
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Wheeler Lumber,
Waverly, KS - 66871,

8.430 s
May 12 2021
MiTek Industries, Inc.
Fri May 28 14:05:01 2021
Page 1

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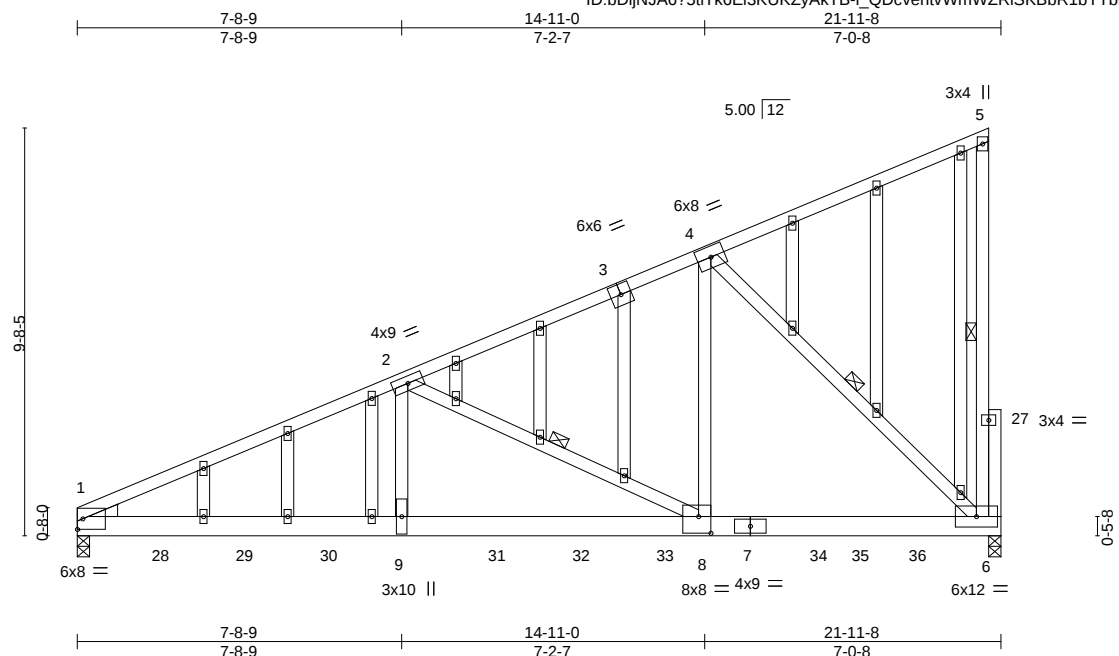


Plate Offsets (X,Y)-- [8:0-3-8,0-4-12]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	25.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	-0.20 1-9	>999	360	MT20	197/144
TCDL	10.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.35 1-9	>731	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.91	Horz(CT)	0.06 6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S		Wind(LL)	0.13 1-9	>999	240	Weight: 313 lb	FT = 10%

LUMBER-
TOP CHORD 2x4 SPF No.2 *Except*
1-3: 2x4 SPF 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E
WEBS 2x4 SPF No.2
OTHERS 2x4 SPF No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-6, 2-8, 4-6

REACTIONS. (size) 6=0-3-8 (req. 0-4-3), 1=0-3-8 (req. 0-4-2)
Max Horz 1=404(LC 5)
Max Uplift 6=-364(LC 8), 1=-467(LC 8)
Max Grav 6=5339(LC 2), 1=5234(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-9428/649, 2-4=-4795/291
BOT CHORD 1-9=-701/8513, 8-9=-701/8513, 6-8=-269/4350
WEBS 2-9=-157/3653, 2-8=-4626/513, 4-8=-216/5520, 4-6=-5968/469

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; 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 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - WARNING:** Required bearing size at joint(s) 6, 1 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=364, 1=467.
 - 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.



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Continued on page 2

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4
210496	G1	GABLE	1	2	I46346063

Wheeler Lumber, Waverly, KS - 66871,

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NOTES-

12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 844 lb down and 143 lb up at 1-11-4, 844 lb down and 143 lb up at 3-11-4, 838 lb down and 41 lb up at 5-11-4, 838 lb down and 41 lb up at 7-11-4, 838 lb down and 41 lb up at 9-11-4, 838 lb down and 41 lb up at 11-11-4, 882 lb down and 26 lb up at 13-11-4, 868 lb down and 26 lb up at 15-11-4, and 878 lb down and 26 lb up at 17-11-4, and 882 lb down and 26 lb up at 19-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-5=-70, 1-6=-20
 - Concentrated Loads (lb)
 - Vert: 7=-850(B) 9=-794(B) 28=-798(B) 29=-798(B) 30=-794(B) 31=-794(B) 32=-794(B) 33=-850(B) 35=-850(B) 36=-850(B)

Job 210496	Truss J1	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Lot 126 H4	I46346064
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:02 2021 Page 1

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Scale = 1:14.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.31	Vert(LL)	-0.04	6	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.07	6	>952	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.00	Horz(CT)	0.02	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.03	6	>999	240		
									Weight: 16 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2 *Except*
4-5: 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-4-9, 5=Mechanical
Max Horz 8=81(LC 5)
Max Uplift 8=-103(LC 4), 5=-48(LC 8)
Max Grav 8=347(LC 1), 5=225(LC 1)

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

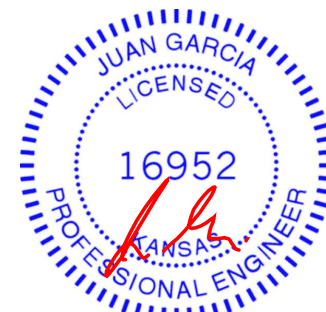
TOP CHORD 2-8=-312/116, 2-3=-250/35

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 8=103.
- 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 34 lb up at 2-9-8, and 68 lb down and 34 lb up at 2-9-8 on top chord, and 2 lb down and 0 lb up at 2-6-11, and 2 lb down and 0 lb up at 2-6-11 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-70, 2-4=-70, 7-8=-20, 5-6=-20
Concentrated Loads (lb)
Vert: 7=1(F=0, B=0)



May 28, 2021

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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



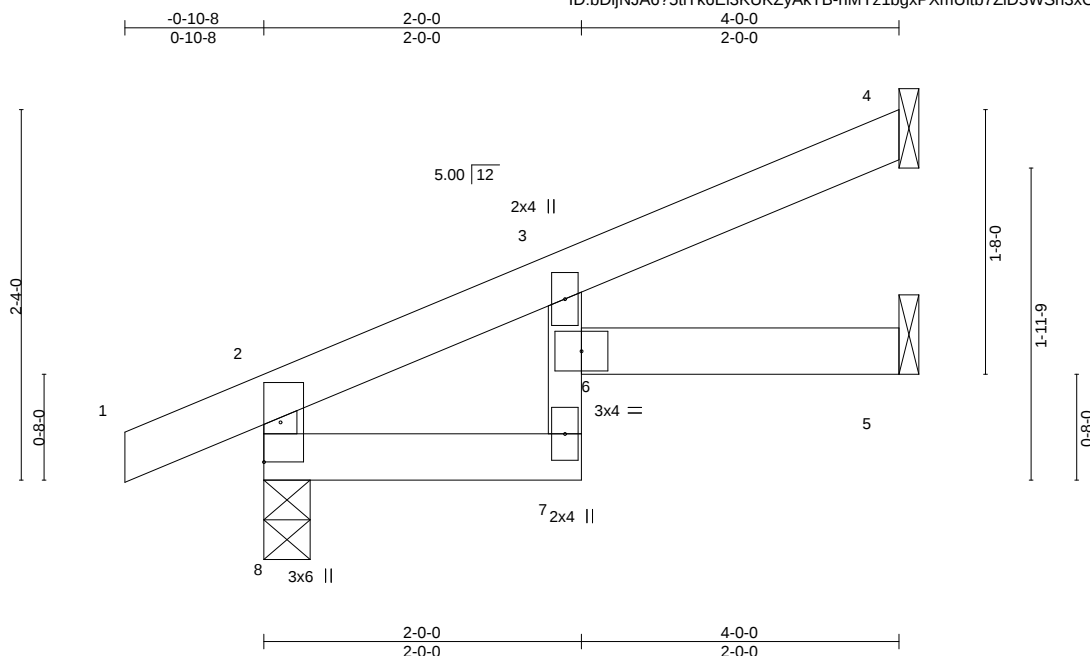
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss J2	Truss Type Jack-Open	Qty 3	Ply 1	Lot 126 H4 I46346065
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:03 2021 Page 1

ID:bDljnJA6?5tiTk6EI3KUKZyAkTB-hMYz1bgxPxmUltb7ZID3WSh3xOYw6az0?t2N6gzBy2U



Scale = 1:14.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.16	Vert(LL)	-0.01	6	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.03	7	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	5	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.02	6	>999	240	
								Weight: 12 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
3-7: 2x3 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 4=Mechanical, 5=Mechanical
Max Horz 8=74(LC 8)
Max Uplift 8=-37(LC 8), 4=-46(LC 8), 5=-4(LC 8)
Max Grav 8=250(LC 1), 4=109(LC 1), 5=62(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4, 5.
- 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.



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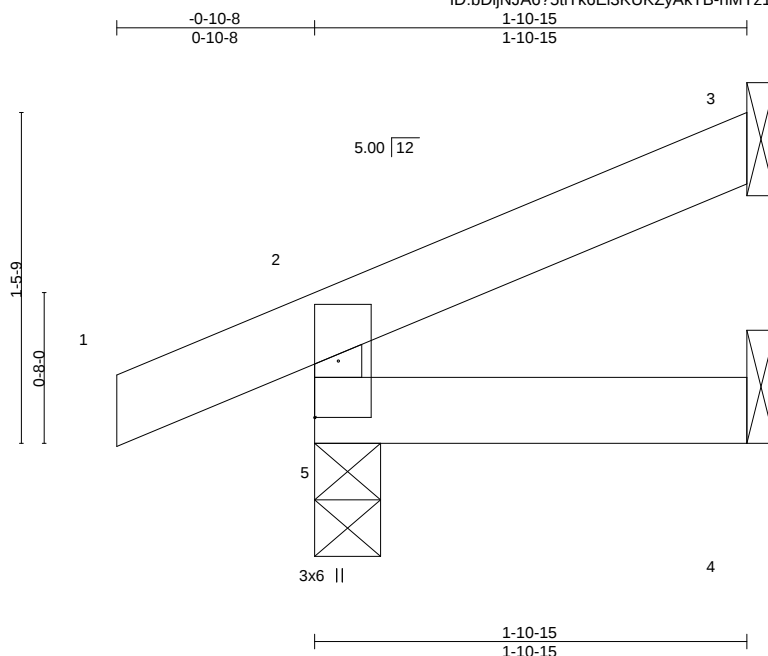
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss J3	Truss Type Jack-Open	Qty 4	Ply 1	Lot 126 H4 I46346066
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:03 2021 Page 1

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Scale = 1:10.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	5	>999	360	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	4-5	>999	240	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-R	Wind(LL)	0.00	5	>999	240	
								Weight: 6 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 5=0-3-8, 3=Mechanical, 4=Mechanical
Max Horz 5=39(LC 8)
Max Uplift 5=33(LC 4), 3=28(LC 8)
Max Grav 5=168(LC 1), 3=46(LC 1), 4=33(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
- 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.



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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



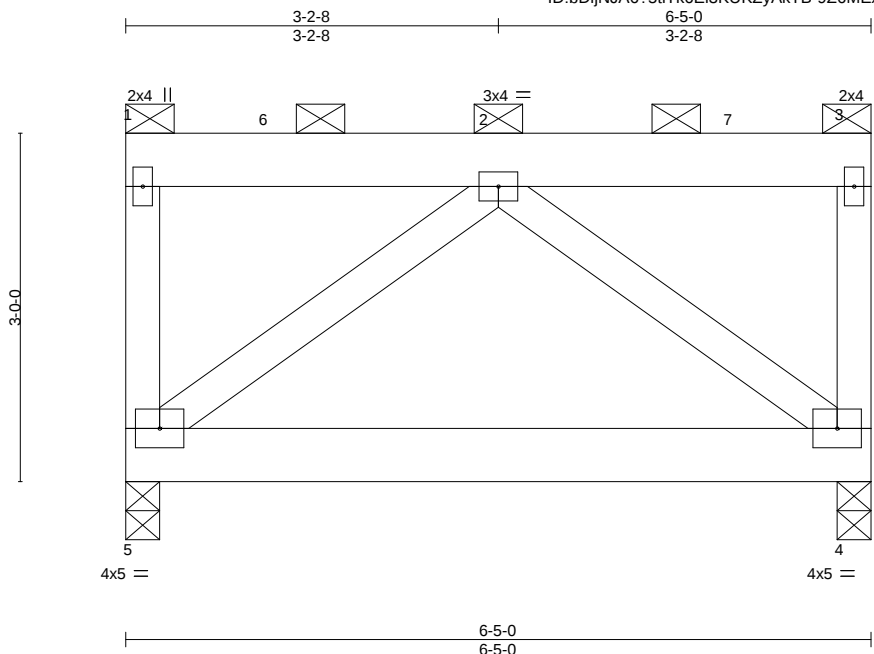
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss R1	Truss Type Flat Girder	Qty 1	Ply 2	Lot 126 H4 I46346067
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Wheeler Lumber, Waverly, KS - 66871,

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Scale = 1:19.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.01 4-5	>999	360	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.02 4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.16	Horz(CT)	0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P	Wind(LL)	0.00 5	****	240	Weight: 72 lb	FT = 10%

LUMBER-
TOP CHORD 2x6 SPF No.2
BOT CHORD 2x6 SPF No.2
WEBS 2x4 SPF No.2

BRACING-
TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

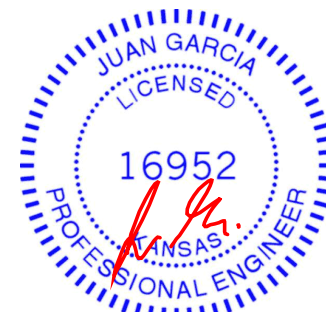
REACTIONS. (size) 5=0-3-8, 4=0-3-8
Max Horz 5=97(LC 22)
Max Uplift 5=-400(LC 4), 4=-416(LC 5)
Max Grav 5=1989(LC 1), 4=2070(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-5=-666/147, 3-4=-747/162
BOT CHORD 4-5=-371/1520
WEBS 2-5=-1975/456, 2-4=-1975/455

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=400, 4=416.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1169 lb down and 244 lb up at 1-3-12, and 1169 lb down and 244 lb up at 3-3-12, and 1170 lb down and 244 lb up at 5-3-12 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



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Continued on page 2

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346067
210496	R1	Flat Girder	1	2	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:05 2021 Page 2
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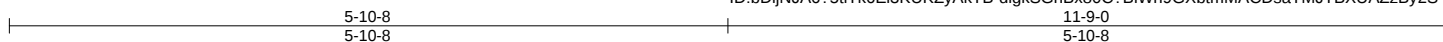
LOAD CASE(S) Standard
Uniform Loads (plf)
 Vert: 1-3=-70, 4-5=-20
Concentrated Loads (lb)
 Vert: 2=-1169 6=-1169 7=-1170

Job 210496	Truss V1	Truss Type Valley	Qty 1	Ply 1	Lot 126 H4 I46346068
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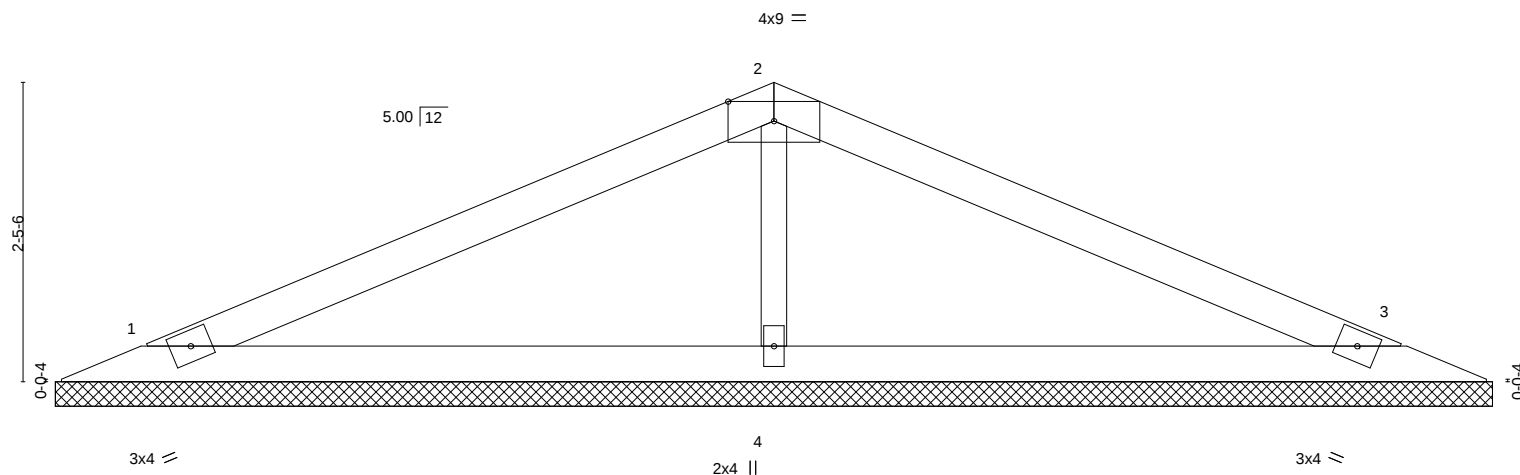
Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:05 2021 Page 1

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Scale = 1:18.8



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	n/a	MT20		197/144	
TCDL	10.0	Lumber DOL	1.15	BC	0.22	Vert(CT)	n/a				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00				
BCDL	10.0	Code IRC2018/TPI2014		Matrix-S							
								Weight: 27 lb		FT = 10%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=11-9-0, 3=11-9-0, 4=11-9-0
Max Horz 1=38(LC 12)
Max Uplift 1=-44(LC 8), 3=-50(LC 9), 4=-32(LC 8)
Max Grav 1=211(LC 21), 3=211(LC 22), 4=507(LC 1)

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

WEBS 2-4=-353/93

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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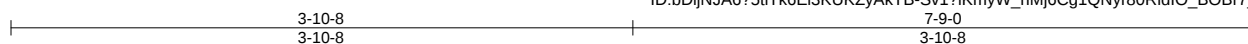
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss V2	Truss Type Valley	Qty 1	Ply 1	Lot 126 H4 I46346069
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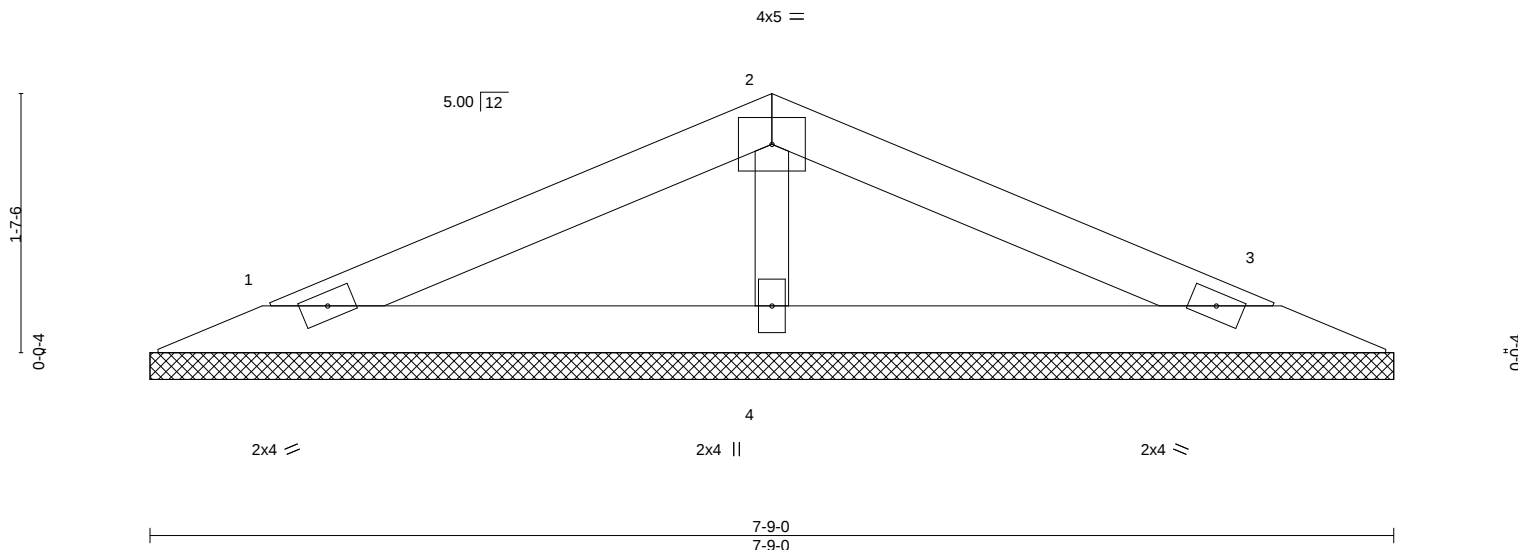
Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:11 2021 Page 1

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Scale = 1:14.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 17 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=7-9-0, 3=7-9-0, 4=7-9-0
Max Horz 1=-23(LC 9)
Max Uplift 1=-33(LC 8), 3=-37(LC 9), 4=-7(LC 8)
Max Grav 1=142(LC 1), 3=142(LC 1), 4=278(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss V3	Truss Type Valley	Qty 1	Ply 1	Lot 126 H4 Job Reference (optional)	I46346070
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:12 2021 Page 1
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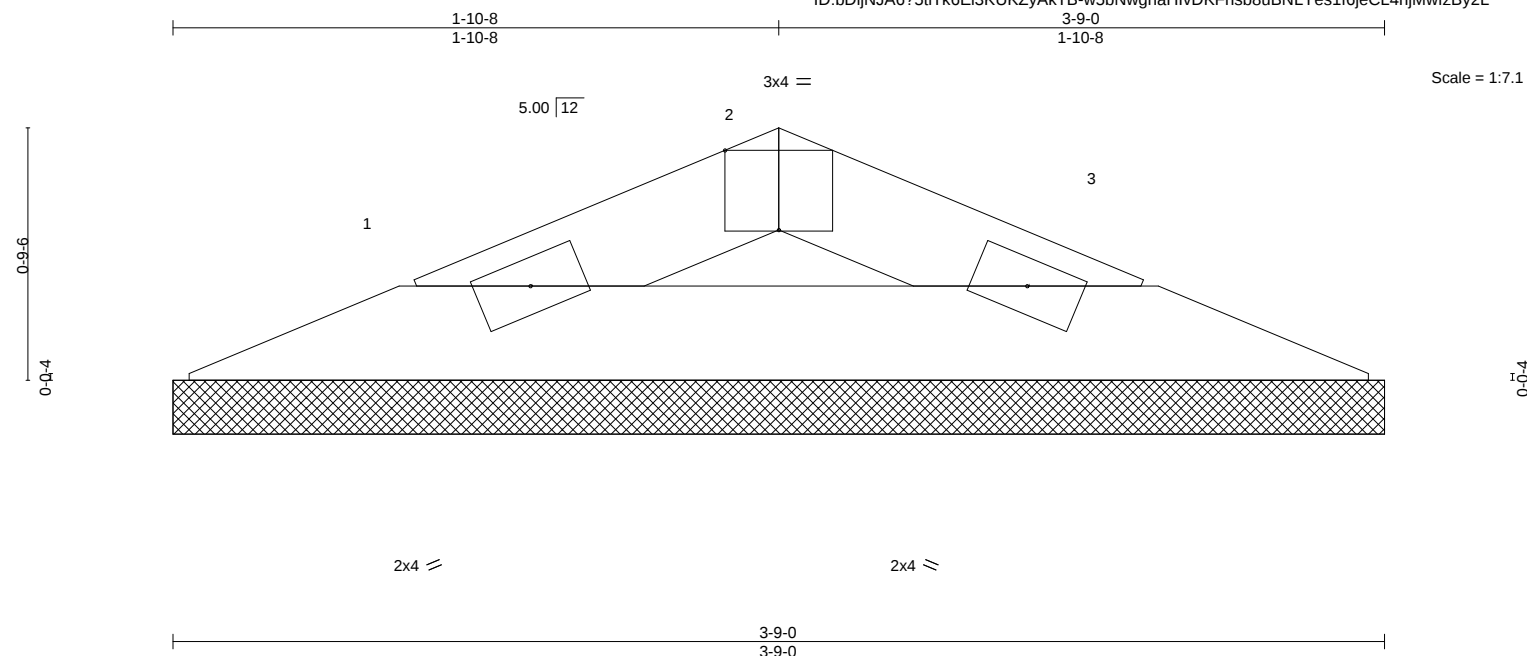


Plate Offsets (X,Y)-- [2:0-2-0,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.02	Vert(LL)	n/a - n/a	999	MT20
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a - n/a	999	197/144
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00 3 n/a	n/a	
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P					
				Weight: 7 lb				FT = 10%	

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=3-9-0, 3=3-9-0
Max Horz 1=8(LC 8)
Max Uplift 1=-13(LC 8), 3=-13(LC 9)
Max Grav 1=101(LC 1), 3=101(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.



May 28, 2021

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

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



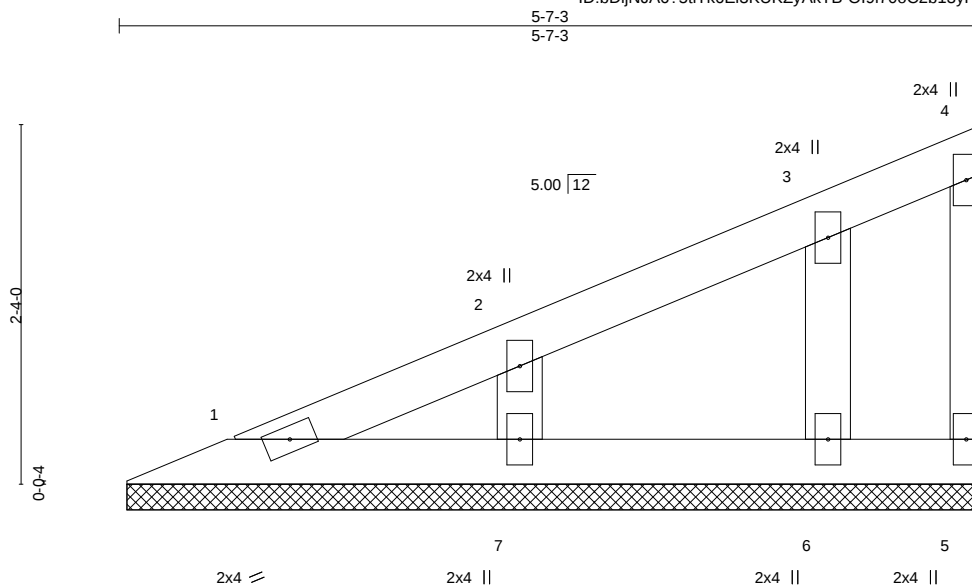
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss V4	Truss Type GABLE	Qty 1	Ply 1	Lot 126 H4 I46346071
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:13 2021 Page 1

ID:bDljnJA6?5tiTk6EI3KUKZyAkTB-OI9I70oC2b13yPM29rPQwZ5p1Q?kS58UIRTvS5zBy2K



Scale = 1:15.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 16 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 5-6-10.

(lb) - Max Horz 1=87(LC 5)

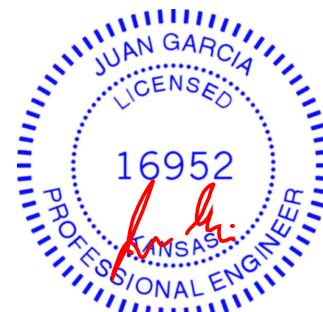
Max Uplift All uplift 100 lb or less at joint(s) 5, 7, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7, 6

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7, 6.
- 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.



May 28, 2021

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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



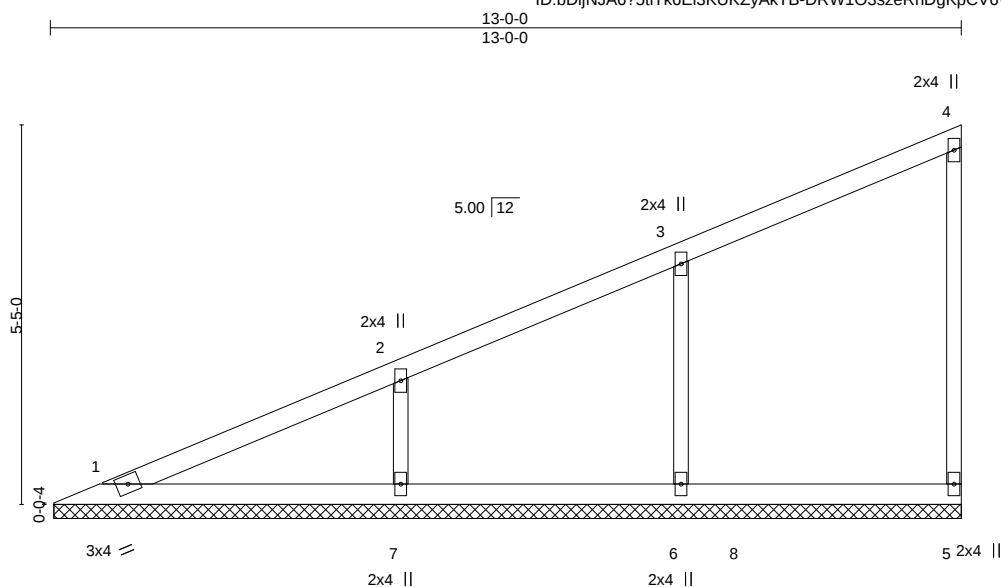
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss V5	Truss Type Valley	Qty 1	Ply 1	Lot 126 H4 I46346072
Job Reference (optional)					

Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:19 2021 Page 1

ID:bDijNJA6?5tiTk6El3KUKZyAkTB-DRW1O3szeRnDgKpCV6Wq9qLnwr0LsoSNhNwEglzBy2E



Scale = 1:32.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	n/a	-	n/a	999	MT20
BCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	n/a	-	n/a	999	197/144
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-S						
									Weight: 38 lb FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 12-11-6.

(lb) - Max Horz 1=221(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=-111(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=411(LC 2), 7=424(LC 2)

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

WEBS 3-6=-296/143, 2-7=-315/161

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=111.
- 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.



May 28, 2021

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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



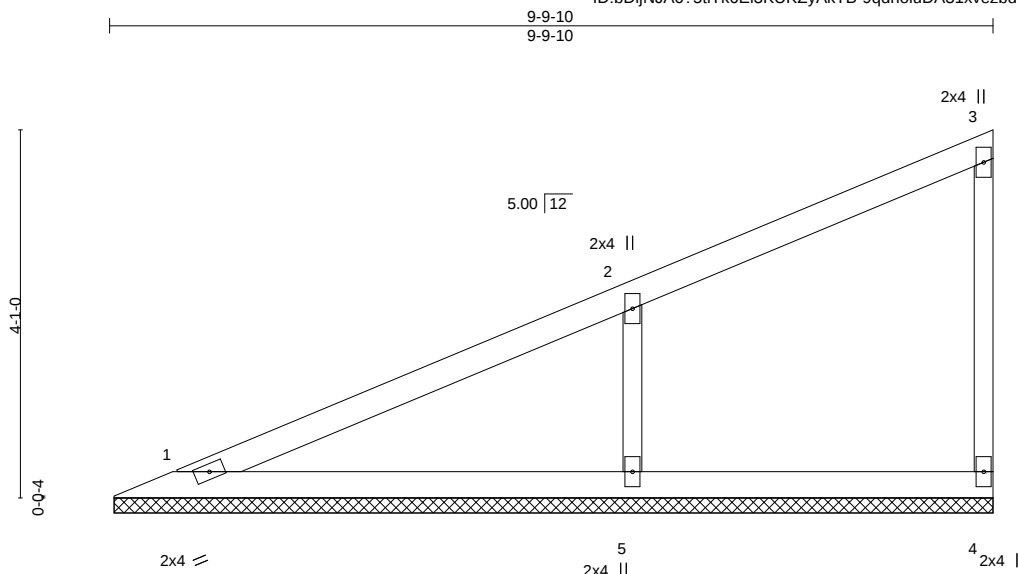
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss V6	Truss Type Valley	Qty 1	Ply 1	Lot 126 H4 Job Reference (optional)	I46346073
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:21 2021 Page 1

ID:bDljNJA6?5tiTk6EI3KUKZyAkTB-9qdnoluDA31xvezbdWYIFFQ5tfhKKiEg8hPKkdzBy2C



Scale = 1:25.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999	197/144
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	-0.00	4	n/a	n/a	
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 27 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

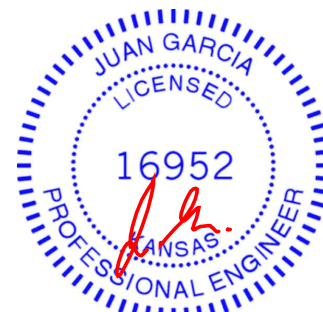
(size) 1=9-9-0, 4=9-9-0, 5=9-9-0
Max Horz 1=163(LC 5)
Max Uplift 4=-23(LC 5), 5=-134(LC 8)
Max Grav 1=182(LC 1), 4=117(LC 1), 5=505(LC 1)

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

WEBS 2-5=-383/188

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=134.
- 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.



May 28, 2021

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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



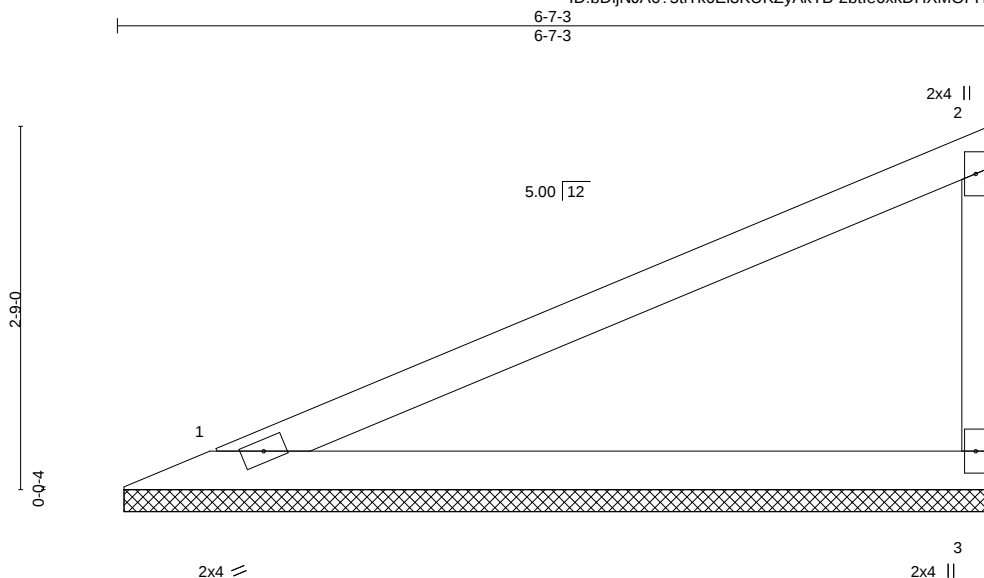
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss V7	Truss Type Valley	Qty 1	Ply 1	Lot 126 H4 Job Reference (optional)	I46346074
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:25 2021 Page 1

ID: bDljNJA6?5tiTk6E13KUKZyAkTB-2btte6xkDHXMOFHMSMdEP5bikG0RGXPF3JNYtPzBy28



Scale = 1:17.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 16 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-7-3 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=6-6-10, 3=6-6-10
Max Horz 1=105(LC 5)
Max Uplift 1=38(LC 8), 3=59(LC 8)
Max Grav 1=258(LC 1), 3=258(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



May 28, 2021

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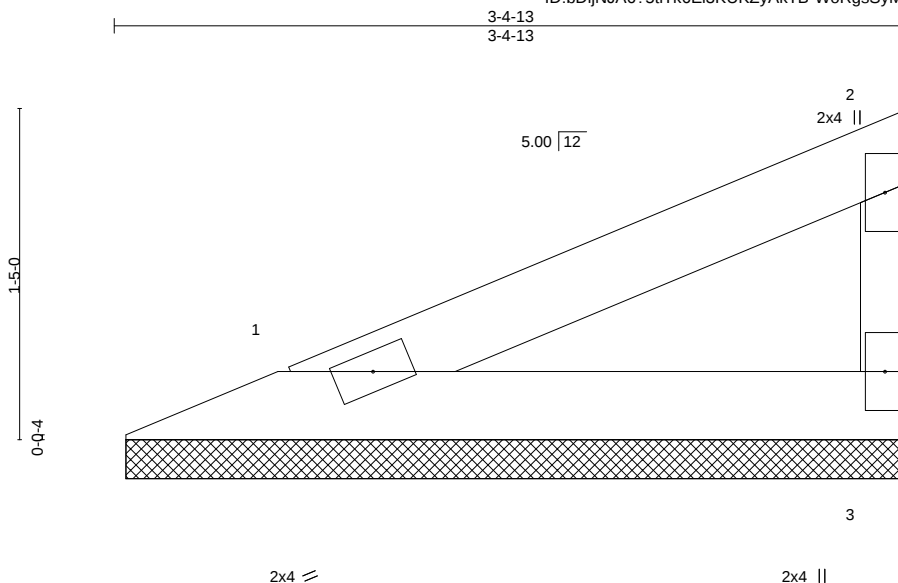
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017



Scale = 1:9.9

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc)	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) n/a - n/a 999	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 8 lb	FT = 10%

**LUMBER-
TOP CHO
BOT CHO
WEBS**

REACTION

FORCES.

NOTES-

- 1) Wind: A
MWFRS
grip DO
- 2) Gable r
- 3) This tru
- 4) * This tr
will fit b
- 5) Provide
- 6) This tru
reference

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

BRACING-
TOP CHOR
BOT CHOR

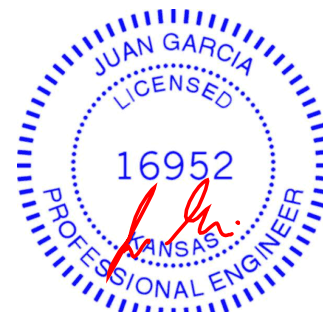
Structural wood sheathing directly applied or 3-4-13 oc purlins,
except end verticals.
Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-4-3, 3=3-4-3
 Max Horz 1=47(LC 5)
 Max Uplift 1=17(LC 8), 3=26(LC 8)
 Max Grav 1=114(LC 1), 3=114(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



May 28, 2021

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WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1475 (Rev. 3/25/2020) 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



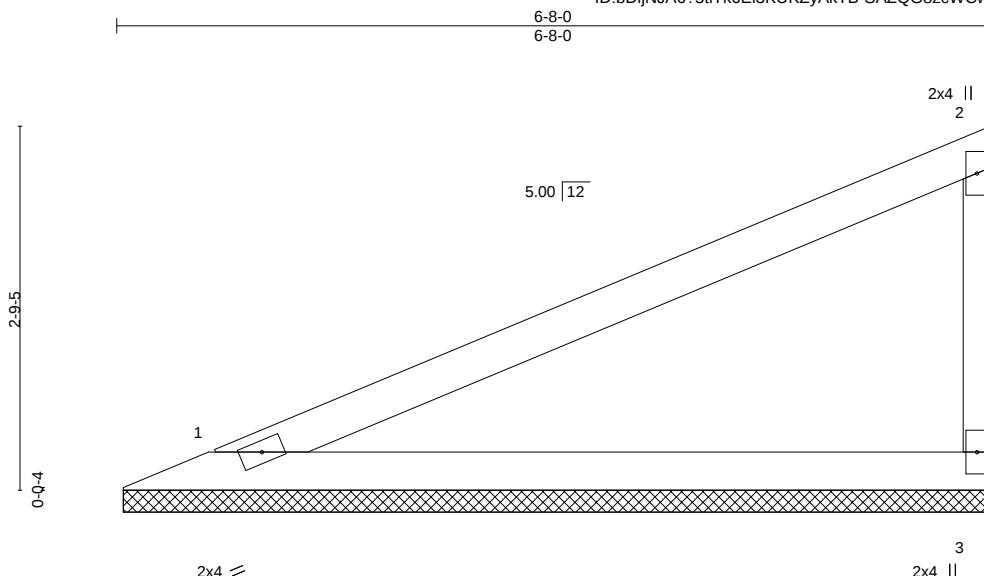
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346076
210496	V9	Valley	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:28 2021 Page 1

ID: bDljNJA6?5tiTk6EI3KUKZyAkTB-SAZQG8zcWCwxFj?xXVax1jDDiT1?Tt9ilGbCUjzBy25



Scale = 1:17.6

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.36	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 17 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-8-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=6-7-6, 3=6-7-6
Max Horz 1=106(LC 5)
Max Uplift 1=38(LC 8), 3=59(LC 8)
Max Grav 1=261(LC 1), 3=261(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



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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

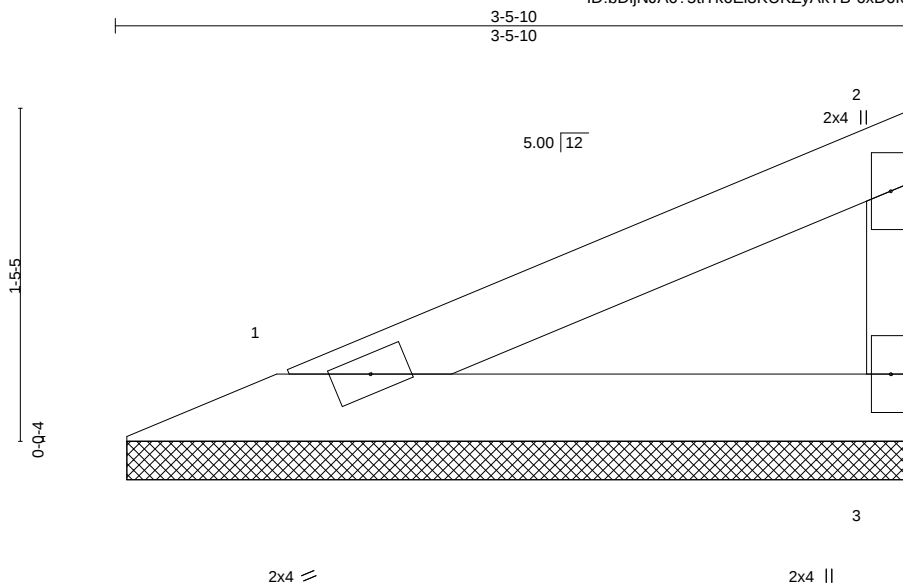


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346077
210496	V10	Valley	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:06 2021 Page 1
ID: bDljNJA6?5tiTk6EI3KUKZyAkTB-6xD6fcipiS83cKKiFnm84JbrccWJxiShrG2j?zBy2R



Scale = 1:10.0

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.12	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 8 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-5-0, 3=3-5-0
Max Horz 1=48(LC 5)
Max Uplift 1=17(LC 8), 3=27(LC 8)
Max Grav 1=117(LC 1), 3=117(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



May 28, 2021

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



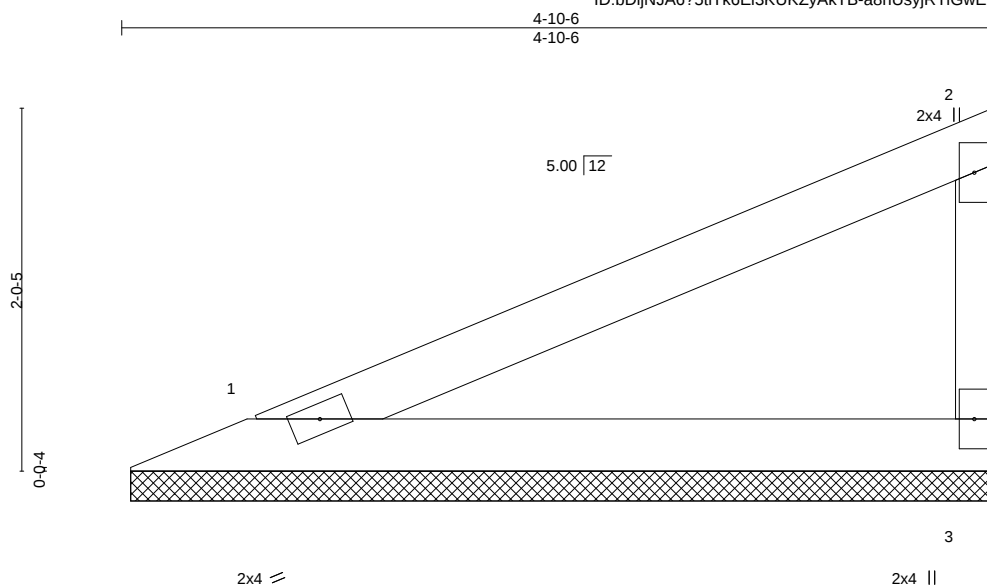
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 126 H4	I46346078
210496	V11	Valley	1	1	Job Reference (optional)	

Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:07 2021 Page 1

ID: bDlJnJA6?5iTk6EI3KUKZyAkTB-a8nUsyjRTIGwEUvwoal?glrjm0wD2OycwV0bFRzBy2Q



Scale = 1:12.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						Weight: 12 lb	FT = 10%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-10-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=4-9-13, 3=4-9-13
Max Horz 1=73(LC 5)
Max Uplift 1=26(LC 8), 3=41(LC 8)
Max Grav 1=180(LC 1), 3=180(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 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.



May 28, 2021

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



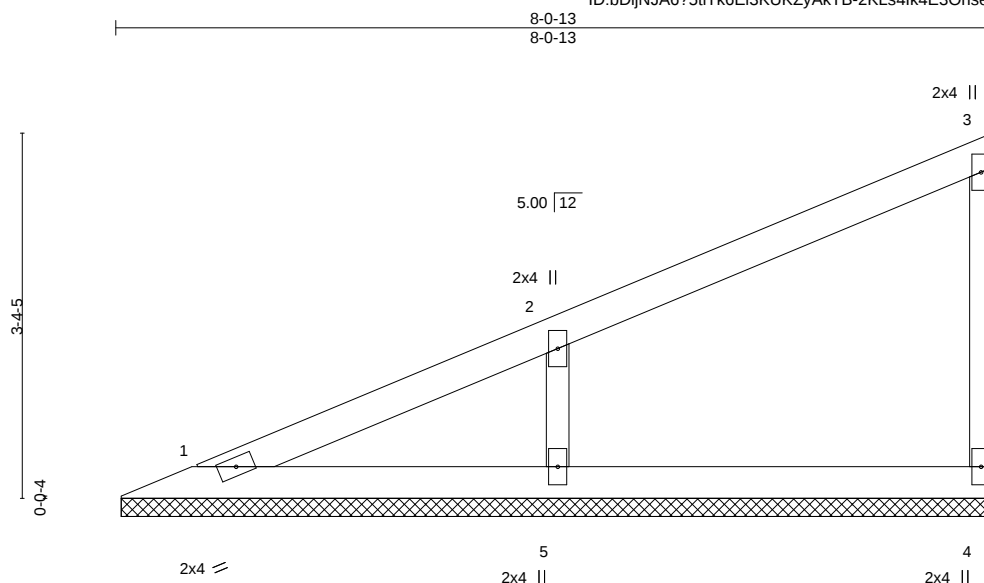
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss V12	Truss Type Valley	Qty 1	Ply 1	Lot 126 H4 Job Reference (optional)	I46346079
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:08 2021 Page 1

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Scale = 1:21.2

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 21 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=8-0-3, 4=8-0-3, 5=8-0-3
Max Horz 1=132(LC 5)
Max Uplift 4=-24(LC 8), 5=-108(LC 8)
Max Grav 1=104(LC 1), 4=137(LC 1), 5=407(LC 1)

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

WEBS 2-5=-317/163

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=108.
- 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.



May 28, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

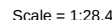
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Wheeler Lumber, Waverly, KS - 66871

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:09 2021 Page 1
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LUMBER-

TOP CHORD	2x4 SPF No.2
BOT CHORD	2x4 SPF No.2
WEBS	2x3 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.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 11-2-10.

(lb) - Max Horz 1=190(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 5, 7 except 6=-106(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=401(LC 1), 7=317(LC 1)

FORCES.

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

WEBS 3-6=-313/154

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BC DL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 7 except (jt=lb) 6=106.
- 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.



May 28, 2021



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

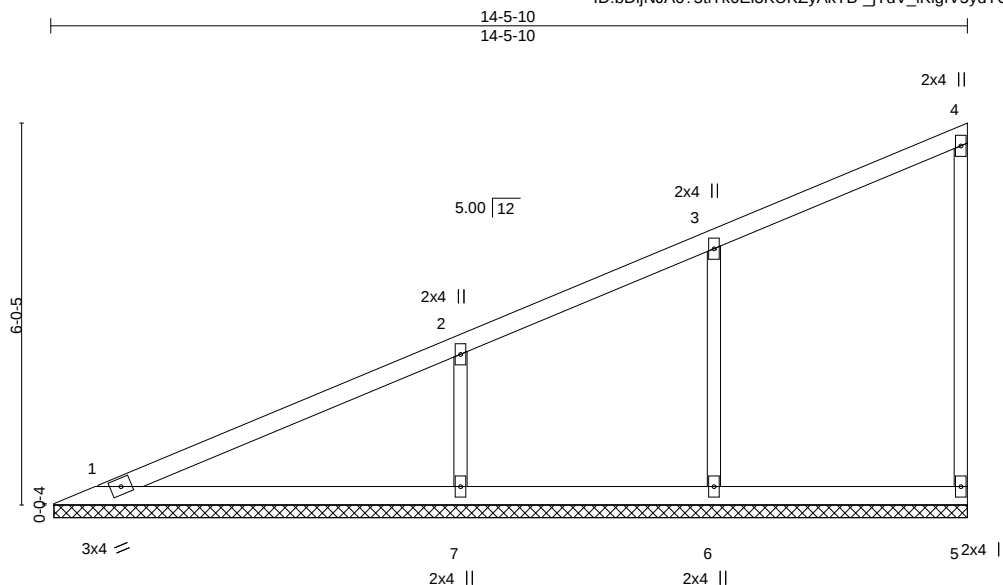


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss V14	Truss Type Valley	Qty 1	Ply 1	Lot 126 H4	I46346081
Job Reference (optional)						

Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:10 2021 Page 1
ID: bDljNJA6?5tiTk6EI3KUKZyAkTB-_JTdV_IKlgfV5ydTUjsilwTCKDwbFjz2cTEFsmzBy2N



Scale = 1:36.4

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.41	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 43 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 14-5-0.

(lb) - Max Horz 1=248(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 5, 6 except 7=140(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=381(LC 2), 7=536(LC 2)

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

WEBS 3-6=-267/127, 2-7=-394/200

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 6 except (jt=lb) 7=140.
- 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.



May 28, 2021

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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



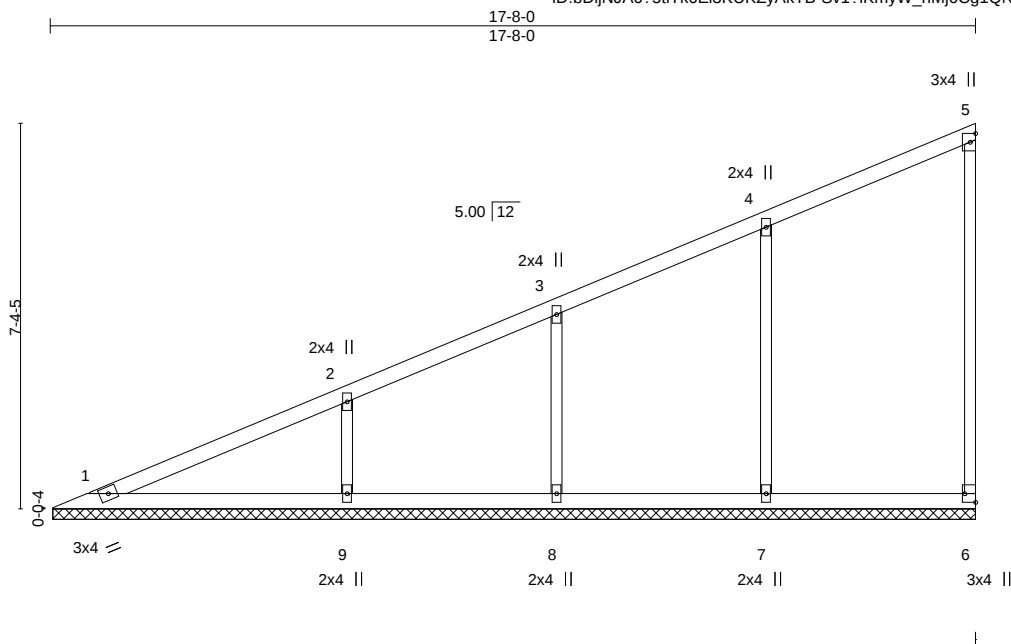
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210496	Truss V15	Truss Type Valley	Qty 1	Ply 1	Lot 126 H4 Job Reference (optional)	I46346082
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Wheeler Lumber, Waverly, KS - 66871,

8.430 s May 12 2021 MiTek Industries, Inc. Fri May 28 14:05:11 2021 Page 1

ID:bDljNJA6?5tiTk6EI3KUKZyAkTB-Sv1?iKmyW_nMj6Cg1QNyr80NXdHz_8RBr7_oODzBy2M



Scale = 1:44.0

Plate Offsets (X,Y)--		[6:Edge,0-2-8]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0		Plate Grip DOL	1.15	TC 0.44		Vert(LL)	n/a -	n/a	999	MT20	197/144
TCDL 10.0		Lumber DOL	1.15	BC 0.17		Vert(CT)	n/a -	n/a	999		
BCLL 0.0 *		Rep Stress Incr	YES	WB 0.23		Horz(CT)	-0.00 6	n/a	n/a		
BCDL 10.0		Code IRC2018/TPI2014		Matrix-S						Weight: 55 lb	FT = 10%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 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.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 17-7-6.

(lb) - Max Horz 1=306(LC 5)

Max Uplift All uplift 100 lb or less at joint(s) 6, 8 except 7=-107(LC 8), 9=-126(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 1, 6 except 7=485(LC 2), 8=353(LC 2), 9=483(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-252/74
WEBS 4-7=-313/141, 2-9=-357/178

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8 except (jt=lb) 7=107, 9=126.
- 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.



May 28, 2021

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

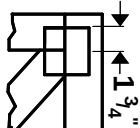
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



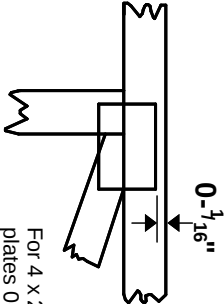
16023 Swingley Ridge Rd
Chesterfield, MO 63017

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- $\frac{3}{16}$ " from outside edge of truss.

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

*** Plate location details available in MiTek 2012 software or upon request.**

PLATE SIZE

4 X 4

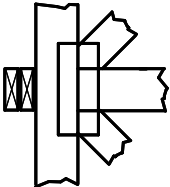
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



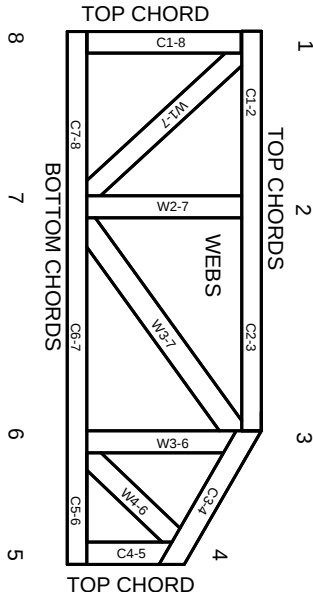
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1.1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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/TP1 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

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.