

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

Re: 2704151

summit/woodside ridge #27/MO

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 04/07/2021

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I45358362 thru I45358448

My license renewal date for the state of Missouri is December 31, 2021.

Missouri COA: Engineering 001193



March 26,2021

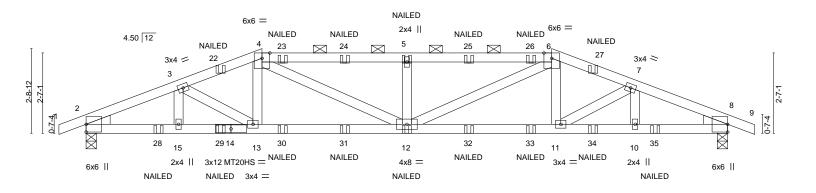
Johnson, Andrew

,Engineer

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

Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358362 2704151 A01 Hip Girder | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:40 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-2CN17YaoZpj?cculVyEjK1jEiWV2W_YexNDsAczXQHT 0-10-8 20-8-0 21-6-8 15-0-0 2-11-12 2-8-4 4-8-0 4-8-0 2-8-4 2-11-12

Scale = 1:37.1



	2-11-12 5-8-0 2-11-12 2-8-4		0-4-0 4-8-0	15-0-0 4-8-0		17-8-4 2-8-4	20-8-0 2-11-12
LOADING (psf) TCLL 25.0 TCDL 20.0 BCLL 0.0 BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TPI2	2-0-0 CSI. 1.15 TC 1.15 BC NO WB 2014 Matrix	0.89 Vert(LL) 0.90 Vert(CT) 0.25 Horz(CT) x-MS		l/defl L/c >999 240 >750 180 n/a n/s	MT20 MT20HS	197/144 5 148/108

TOP CHORD

BOT CHORD

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 2x4 SPF 1650F 1.5E **BOT CHORD**

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-4-0, 8=0-4-0 Max Horz 2=41(LC 8)

Max Uplift 2=-400(LC 4), 8=-400(LC 5)

Max Grav 2=1751(LC 1), 8=1751(LC 1)

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

TOP CHORD 2-3=-3198/719, 3-4=-3196/728, 4-5=-3836/892, 5-6=-3836/892, 6-7=-3196/728, 7-8=-3198/719

2-15=-644/2913, 13-15=-644/2913, 12-13=-642/2996, 11-12=-611/2996, 10-11=-614/2913,

8-10=-614/2913 WEBS 4-13=-5/262, 4-12=-248/1007, 5-12=-718/280, 6-12=-248/1007, 6-11=-6/262

BOT CHORD

- 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=4.2psf; 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=400, 8=400
- 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) 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

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 6-9=-90, 16-19=-20



Structural wood sheathing directly applied or 2-9-4 oc purlins, except

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

Rigid ceiling directly applied or 8-10-12 oc bracing.

March 26,2021





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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/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	summit/woodside ridge #27/MO
					145358362
2704151	A01	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:40 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-2CN17YaoZpj?cculVyEjK1jEiWV2W_YexNDsAczXQHT

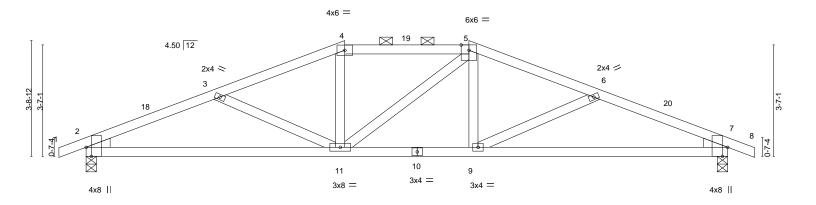
LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 12=-27(B) 5=-60(B) 23=-60(B) 24=-60(B) 25=-60(B) 25=-60(B) 28=-177(B) 29=-144(B) 30=-27(B) 31=-27(B) 32=-27(B) 33=-27(B) 34=-144(B) 35=-177(B)

Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358363 2704151 A02 Hip | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:41 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-WPxPLuaQK7rrDmTx3gmysFFWlwvtFTunA1yPi3zXQHS 0-10-8 21-6-8 0-10-8 12-4-0 20-8-0 4-3-12 4-0-4 4-0-0 4-0-4 4-3-12

Scale = 1:37.1



-					4-0-0	-					
sets (X,Y)	[2:0-3-8,Edge], [7:0-3-8,E	Edge]									
(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
25.0	Plate Grip DOL	1.15	TC	0.42	Vert(LL)	-0.09	9-11	>999	240	MT20	197/144
20.0	Lumber DOL	1.15	BC	0.67	Vert(CT)	-0.19	9-17	>999	180		
0.0	Rep Stress Incr	YES	WB	0.11	Horz(CT)	0.06	7	n/a	n/a		
10.0	Code IRC2018/TI	PI2014	Matrix	(-AS						Weight: 75 lb	FT = 20%
	(psf) 25.0 20.0 0.0	8-4 sets (X,Y) [2:0-3-8,Edge], [7:0-3-8,E 6 (psf) SPACING- 25.0 Plate Grip DOL 20.0 Lumber DOL 0.0 Rep Stress Incr	S (psf) SPACING- 2-0-0 25.0 Plate Grip DOL 1.15 20.0 Lumber DOL 1.15 0.0 Rep Stress Incr YES	8-4-0 sets (X,Y) [2:0-3-8,Edge], [7:0-3-8,Edge] 3 (psf) SPACING- 2-0-0 CSI. 25.0 Plate Grip DOL 1.15 TC 20.0 Lumber DOL 1.15 BC 0.0 Rep Stress Incr YES WB	8-4-0 sets (X,Y) [2:0-3-8,Edge], [7:0-3-8,Edge] 6 (psf)	8-4-0 4-0-0 sets (X,Y) [2:0-3-8,Edge], [7:0-3-8,Edge] 36 (psf) SPACING- 2-0-0 CSI. DEFL. 25.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) 20.0 Lumber DOL 1.15 BC 0.67 Vert(CT) 0.0 Rep Stress Incr YES WB 0.11 Horz(CT)	8-4-0 4-0-0 sets (X,Y) [2:0-3-8,Edge], [7:0-3-8,Edge] 3 (psf) SPACING- 2-0-0 CSI. DEFL. in 25.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) -0.09 20.0 Lumber DOL 1.15 BC 0.67 Vert(CT) -0.19 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.06	8-4-0 4-0-0 sets (X,Y) [2:0-3-8,Edge], [7:0-3-8,Edge] S (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) 25.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) -0.09 9-11 20.0 Lumber DOL 1.15 BC 0.67 Vert(CT) -0.19 9-17 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.06 7	8-4-0 4-0-0 sets (X,Y) [2:0-3-8,Edge], [7:0-3-8,Edge] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl 25.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) -0.09 9-11 >999 20.0 Lumber DOL 1.15 BC 0.67 Vert(CT) -0.19 9-17 >999 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.06 7 n/a	8-4-0 4-0-0 8 sets (X,Y) [2:0-3-8,Edge], [7:0-3-8,Edge] G (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d 25.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) -0.09 9-11 >999 240 20.0 Lumber DOL 1.15 BC 0.67 Vert(CT) -0.19 9-17 >999 180 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.06 7 n/a n/a	8-4-0 4-0-0 8-4-0 sets (X,Y) [2:0-3-8,Edge], [7:0-3-8,Edge] 6 (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl L/d PLATES 25.0 Plate Grip DOL 1.15 TC 0.42 Vert(LL) -0.09 9-11 >999 240 MT20 20.0 Lumber DOL 1.15 BC 0.67 Vert(CT) -0.19 9-17 >999 180 0.0 Rep Stress Incr YES WB 0.11 Horz(CT) 0.06 7 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-4-1 max.): 4-5.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-4-0, 7=0-4-0

Max Horz 2=60(LC 16)

Max Uplift 2=-206(LC 8), 7=-206(LC 9) Max Grav 2=1215(LC 1), 7=1215(LC 1)

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

TOP CHORD 2-3=-2211/392, 3-4=-1874/332, 4-5=-1713/340, 5-6=-1874/332, 6-7=-2211/392

BOT CHORD 2-11=-315/2001, 9-11=-218/1712, 7-9=-315/2001

3-11=-331/144, 4-11=-10/287, 5-9=-10/288, 6-9=-332/144 **WEBS**

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-4-0, Exterior(2E) 8-4-0 to 12-4-0, Exterior(2R) 12-4-0 to 16-6-9, Interior(1) 16-6-9 to 21-6-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=206, 7=206
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021



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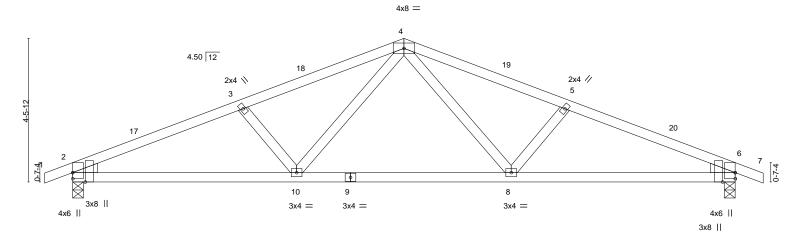
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Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #27/MO
					145358364
2704151	A03	Common	1	1	
					Job Reference (optional)
Builders FirstSource (Valley	Center), Valley Center, k	(S - 67147,	8.	430 s Feb	12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:42 2021 Page 1
		IC	:wH4RYhEsTNeU	P2dXvOfi1	syQY8ebVoYEb24Rzirw28cNHBPSohGKGt_vkwPhiyEVzXQHR
_[-0-10-8]	5-3-12	10-4-0		15-4-4	20-8-0 21-6-8
0-10-8	5-3-12	5-0-4		5-0-4	5-3-12 0-10-8

Scale = 1:35.9



		6-11-13	I	6-8-5		6-11-13	1
Plate Off	sets (X,Y)	[2:0-3-8,Edge], [6:0-3-8,Edge]					
LOADING TCLL	G (psf) 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.44	DEFL. in (loc) Vert(LL) -0.10 8-10	I/defl L/d >999 240	PLATES GRIP MT20 197/144	
TCDL BCLL	20.0	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.62 WB 0.14	Vert(CT) -0.24 8-10 Horz(CT) 0.06 6	>999 180 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS			Weight: 71 lb FT = 20	%

BRACING-

TOP CHORD

BOT CHORD

13-8-3

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2, Right: 2x4 SPF No.2

REACTIONS. (size) 2=0-4-0, 6=0-4-0

Max Horz 2=74(LC 16)

Max Uplift 2=-191(LC 8), 6=-191(LC 9) Max Grav 2=1215(LC 1), 6=1215(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2205/417, 3-4=-1950/392, 4-5=-1950/392, 5-6=-2205/417

BOT CHORD 2-10=-321/1989, 8-10=-184/1421, 6-8=-327/1989

6-11-13

WEBS 3-10=-413/171, 4-10=-100/570, 4-8=-101/570, 5-8=-413/171

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-4-0, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 21-6-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



20-8-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.



Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-x_cYzwdlc2DQ4EBWkoJfUttxy8tjSewDs?B3JOzXQHF

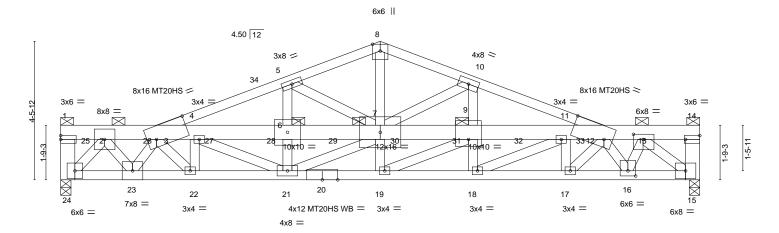
Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-4-9 max.): 1-14.

Rigid ceiling directly applied.

1 Brace at Jt(s): 1, 14, 7, 6, 9





		2-3-14 ₁ 3-1-3 ₁ 4-4-0	7-4	-0 8-4-0	10-4-0	12-4-	0 ₁ 1	3-4-0 ₁	16-4	-0	17-6-13	₁ 18-4-2 ₁	20-8-0	
		2-3-14 0-9-5 1-2-13	3-0	-0 1-0-0	2-0-0	2-0-0) '	1-0-0	3-0-	0	1-2-13	0-9-5	2-3-14	
Plate Offs	sets (X,Y)	[3:1-0-8,0-5-0], [9:0-5-0,	0-2-12], [12:1-0	0-12,0-5-0], [13:0-3-	12,0-2-0], [14:	Edge,0-1-	8], [16:0	-3-0,0	-2-0]					
LOADING	G (psf)	SPACING-	2-0-0	CSI.	[DEFL.	in	(loc)	l/defl	L/d	P	LATES	GRIP	
TCLL	25.0	Plate Grip DOL	1.15	TC 0.81	\	√ert(LL)	-0.02	19	>999	240	M	T20	197/144	
TCDL	20.0	Lumber DOL	1.15	BC 0.85	\	/ert(CT)	-0.35	18-19	>694	180	M	T20HS	148/108	
BCLL	0.0	Rep Stress Incr	NO	WB 0.86	H	Horz(CT)	0.13	15	n/a	n/a				
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS		, ,					W	eight: 266 lb	FT = 20	%

TOP CHORD

BOT CHORD

JOINTS

LUMBER-BRACING-

2x6 SPF No.2 *Except* TOP CHORD

3-8,8-12: 2x4 SPF No.2 **BOT CHORD** 2x4 SP 2400F 2.0E WEBS 2x4 SPF No.2 *Except*

1-24,14-15: 2x6 SPF No.2

REACTIONS. (size) 24=0-4-0, 15=0-4-0

Max Horz 24=18(LC 16)

Max Grav 24=7116(LC 1), 15=7072(LC 1)

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

TOP CHORD $1-24 = -952/0, \ 1-2 = -490/0, \ 2-3 = -8838/0, \ 3-4 = -5036/0, \ 4-6 = -4348/0, \ 6-7 =$

7-9=-2321/0, 9-11=-3228/0, 11-12=-4724/0, 12-13=-9347/0, 13-14=-554/0, 3-5=-9464/0,

5-8=-7471/0, 8-10=-7469/0, 10-12=-10066/0, 14-15=-632/0

23-24=0/5609, 22-23=0/13193, 21-22=0/13674, 19-21=0/11511, 18-19=0/12418, **BOT CHORD**

17-18=0/13914, 16-17=0/13528, 15-16=0/7696

WFBS 7-8=0/4947, 9-10=0/2356, 7-10=-2562/0, 5-6=0/1827, 5-7=-1940/0, 7-19=0/506, 9-18=0/852, 11-17=-649/0, 4-22=-856/0, 4-21=-822/0, 7-21=0/1705, 9-19=-1001/0,

11-18=-1649/0, 2-24=-7868/0, 2-23=0/5936, 3-23=-6699/0, 3-22=0/971, 13-15=-9453/0,

13-16=0/4969, 12-16=-6433/0, 12-17=0/781

NOTES-

1) 2-ply truss to be connected together with 10d (0.120"x3") nails as follows:

Top chords connected as follows: 2x6 - 2 rows staggered at 0-3-0 oc, 2x4 - 1 row at 0-4-0 oc.

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

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 24-2 2x4 - 1 row at 0-7-0 oc, member 23-3 2x4 - 1 row at 0-7-0 oc, member 15-13 2x4 - 1 row at 0-7-0 oc, member 16-12 2x4 - 1 row at 0-7-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) interior zone and C-C Exterior(2E) 3-6-2 to 6-6-2, Interior(1) 6-6-2 to 10-4-0, Exterior(2R) 0-2-12 to 3-6-2, Interior(1) 3-6-2 to 20-5-4, Exterior(2R) 10-4-0 to 13-4-0, Interior(1) 13-4-0 to 17-1-14 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are MT20 plates unless otherwise indicated
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) Bearing at joint(s) 24, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Connected codesigned and ANSI/TPI 1.



March 26,2021

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

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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



ĺ	Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #27/MO
ı						145358365
ı	2704151	A04	ROOF SPECIAL GIRDER	1	2	
ı						Job Reference (optional)
	Builders FirstSource (Valley	Center), Valley Center, K	S - 67147,	8	.430 s Feb	12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:44 2021 Page 2
			ID:wH4	RYhEsTN	leUP2dXvC	Dfi1syQY8e-x_cYzwdlc2DQ4EBWkoJfUttxy8tjSewDs?B3JOzXQHP
	NOTES-					
	10) Load case(s) 1, 2, 3, 4,	5, 6, 7, 8, 9, 10, 11, 12, 13,	14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26	i, 27, 28 ł	nas/have b	een modified. Building designer must review loads
		orrect for the intended use o				v v
			structural wood sheathing be applied directly to	the top ch	nord and 1	/2" gypsum sheetrock be applied directly to the
	hottom chard					

responsibility of others. LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 12-14=-90, 3-8=-90, 8-12=-90, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the

12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

2) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-78, 12-14=-78, 3-8=-77, 8-12=-77, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-3=-40, 12-14=-40, 3-8=-40, 8-12=-40, 15-24=-40

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=34, 12-14=26, 3-34=36, 8-34=32, 8-10=40, 10-12=32, 15-24=-8

Horz: 1-24=20, 3-34=-48, 8-34=-44, 8-10=52, 10-12=44, 14-15=35

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=26, 12-14=34, 3-5=32, 5-8=40, 8-12=32, 15-24=-8

Horz: 1-24=-35, 3-5=-44, 5-8=-52, 8-12=44, 14-15=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-56, 12-14=-56, 3-8=-62, 8-12=-62, 15-24=-20

Horz: 1-24=-23, 3-8=22, 8-12=-22, 14-15=-32

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-56, 12-14=-56, 3-8=-62, 8-12=-62, 15-24=-20

Horz: 1-24=32, 3-8=22, 8-12=-22, 14-15=23

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert: 1-3=16, 12-14=6, 3-8=32, 8-12=22, 15-24=-8

Horz: 1-24=12, 3-8=-44, 8-12=34, 14-15=18

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

33=-1135(F)

9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=6, 12-14=16, 3-8=22, 8-12=32, 15-24=-8

Horz: 1-24=-18, 3-8=-34, 8-12=44, 14-15=-12

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

33=-1135(F)

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-23, 12-14=-34, 3-8=-19, 8-12=-30, 15-24=-20

Horz: 1-24=24, 3-8=-21, 8-12=10, 14-15=6

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

33=-1135(F)

11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-34, 12-14=-23, 3-8=-30, 8-12=-19, 15-24=-20

Horz: 1-24=-6, 3-8=-10, 8-12=21, 14-15=-24

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

33=-1135(F)

Continued on page 3

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Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F) 31=-1135(F) 32=-1135(F) 31=-1135(F) 31=-1135(F)

19) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-65, 12-14=-73, 3-8=-62, 8-12=-70, 15-24=-20

Horz: 1-24=18, 3-8=-16, 8-12=8, 14-15=5

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

20) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-73, 12-14=-65, 3-8=-70, 8-12=-62, 15-24=-20

Horz: 1-24=-5, 3-8=-8, 8-12=16, 14-15=-18

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

21) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-65, 12-14=-73, 3-8=-60, 8-12=-73, 15-24=-20

Horz: 1-24=14, 3-8=-17, 8-12=4, 14-15=3

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F)

33=-1135(F)

22) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-73, 12-14=-65, 3-8=-73, 8-12=-60, 15-24=-20

Horz: 1-24=-3, 3-8=-4, 8-12=17, 14-15=-14

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

23) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=-28, 12-14=-28, 3-8=-28, 8-12=-28, 15-24=-8

Horz: 1-24=-16, 3-8=16, 8-12=-16, 14-15=-16

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

Continued on page 4

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145358365

Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #27/MO	
0704454	404	DOOF OPENIAL OIDDED				145358365
2704151	A04	ROOF SPECIAL GIRDER	1	2	Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:44 2021 Page 4 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-x_cYzwdlc2DQ4EBWkoJfUttxy8tjSewDs?B3JOzXQHP

LOAD CASE(S) Standard

24) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60

Uniform Loads (plf)

Vert: 1-3=4, 12-14=4, 3-8=4, 8-12=4, 15-24=-8

Horz: 1-24=16, 3-8=-16, 8-12=16, 14-15=16

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

25) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-90, 12-14=-40, 3-8=-90, 8-12=-40, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

26) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-40, 12-14=-40, 3-8=-40, 8-12=-40, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

27) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-78, 12-14=-40, 3-8=-77, 8-12=-40, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)

28) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-40, 12-14=-40, 3-8=-40, 8-12=-40, 15-24=-20

Concentrated Loads (lb)

Vert: 13=-1750(F) 25=-1135(F) 26=-1135(F) 27=-1135(F) 28=-1135(F) 29=-1135(F) 30=-1135(F) 31=-1135(F) 32=-1135(F) 33=-1135(F)



Job Truss Truss Type Qty summit/woodside ridge #27/MO Ply 145358366 2704151 B₀1 HIP GIRDER | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:45 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-PAAwBGdwNMLHiNmjlVqu15Q7KXCTB8YN5fwcrqzXQHO

14-8-6

4-0-6

18-7-0

3-10-10

Structural wood sheathing directly applied or 2-7-4 oc purlins, except

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

Rigid ceiling directly applied or 6-11-2 oc bracing.

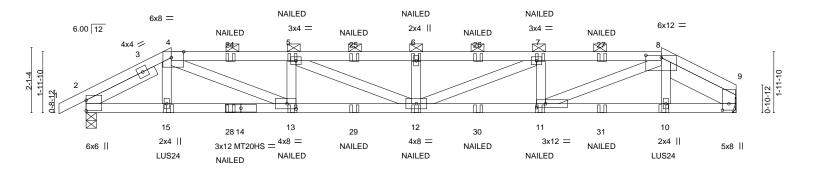
10-8-0

4-0-6

Scale = 1:37.2

21-0-0

2-5-0



	1	2-9-0	6-7-10	1	10-8-0	I I	14-8	3-6	1	1	18-7-0	21-0-0
		2-9-0	3-10-10	1	4-0-6		4-0	-6	1	3	-10-10	2-5-0
Plate Off	sets (X,Y)	[4:0-4-13,Edge], [8:0-6-0),0-0-15], [9:0-2-	8,0-2-8], [11	:0-3-8,0-1-8], [13:0-3-8,0-2-0]						
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.25	12	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.56	12	>453	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(CT)	0.07	9	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix	c-MS	, ,					Weight: 84 lb	FT = 20%

LUMBER-BRACING-

3-10-10

2x4 SPF No.2 *Except* TOP CHORD TOP CHORD

4-8: 2x4 SPF 1650F 1.5E **BOT CHORD** 2x4 SPF 1650F 1.5E **BOT CHORD**

SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0

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

2x4 SPF No.2

Max Horz 2=41(LC 29)

Max Uplift 9=-382(LC 9), 2=-398(LC 8) Max Grav 9=1797(LC 1), 2=1859(LC 1)

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

TOP CHORD $2\text{-}4\text{--}2876/636,\ 4\text{-}5\text{--}4847/1106,\ 5\text{-}6\text{--}5502/1253,\ 6\text{-}7\text{--}5502/1253,\ 7\text{-}8\text{--}4704/1073,}$

8-9=-351/107

BOT CHORD 2-15=-549/2521, 13-15=-548/2502, 12-13=-1093/4843, 11-12=-1049/4700,

10-11=-491/2313, 9-10=-494/2337

WEBS 4-13=-613/2585, 5-13=-863/261, 5-12=-198/733, 6-12=-459/159, 7-12=-230/885,

7-11=-905/269, 8-11=-622/2634, 8-10=-36/291

NOTES-

WEBS

0-10-8

2-9-0

- 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=4.2psf; 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) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=382, 2=398.
- 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/TPL1
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent spaced at 16-0-0 oc max. starting at 2-8-0 from the left end to 18-8-0 to connect truss(es) to back face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 13) 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

Continued on page 2

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March 26,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #27/MO
					145358366
2704151	B01	HIP GIRDER	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:45 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-PAAwBGdwNMLHiNmjlVqu15Q7KXCTB8YN5fwcrqzXQHO

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-8=-90, 8-9=-90, 16-20=-20

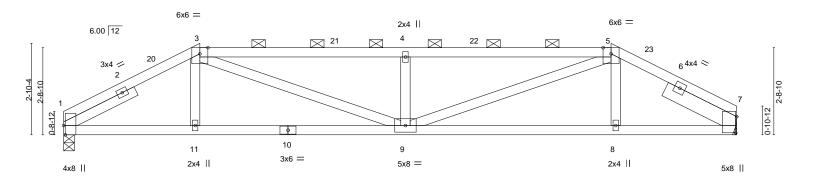
Concentrated Loads (lb)

Vert: 15=-292(B) 13=-41(B) 5=-57(B) 12=-41(B) 6=-57(B) 7=-57(B) 11=-41(B) 10=-292(B) 24=-57(B) 25=-57(B) 26=-57(B) 27=-57(B) 28=-41(B) 29=-41(B)

30=-41(B) 31=-41(B)

Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358367 2704151 B02 Hip | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:46 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-tMklOceY8fT8KXLvrDL7ZlyHXxbjwgsWKJgANGzXQHN 6-5-0 6-5-0 3-11-0

Scale = 1:36.0



	—	4-3-0		10-8-0		-		17-	_		21-0-	
Plate Off	sets (X,Y)	4-3-0 (1:0-3-8,Edge), [7:0-6-1,0	0-0-51	6-5-0				6-5	5-0		3-11-	U
Tiate Off	3013 (71,1)	[1.0 0 0,Euge], [1.0 0 1,	0 0 0]	T								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.11	9	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.27	8-9	>939	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.06	7	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-	AS						Weight: 79 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 **WEBS** 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0

REACTIONS. (size) 1=0-4-0, 7=Mechanical

Max Horz 1=39(LC 12)

Max Uplift 1=-167(LC 12), 7=-164(LC 13) Max Grav 1=1155(LC 1), 7=1155(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-3=-1846/300, 3-4=-2685/446, 4-5=-2685/446, 5-7=-1742/288 TOP CHORD **BOT CHORD** 1-11=-236/1623, 9-11=-239/1620, 8-9=-207/1513, 7-8=-204/1514

WEBS 3-9=-241/1212, 4-9=-711/219, 5-9=-253/1314

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-3-0, Exterior(2R) 4-3-0 to 8-5-15, Interior(1) 8-5-15 to 17-1-0, Exterior(2E) 17-1-0 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) except (jt=lb) 1=167, 7=164.
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021



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

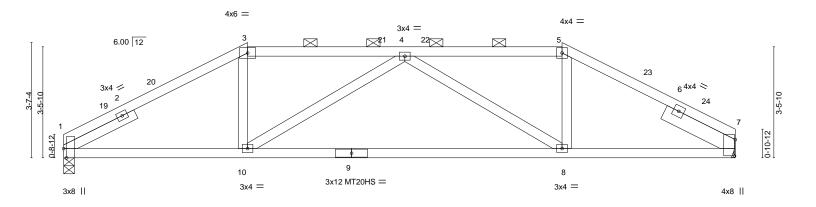
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358368 2704151 B₀3 Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:47 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-LYIhbyfBvzb?xhw5PwsM6WVWpLvhf6pgYzPjwizXQHM 5-9-0 4-11-0

Scale = 1:36.0



ŀ		5-9-0		9-10-0	5-5-0	
Plate Offs	sets (X,Y)	[1:0-3-8,Edge], [7:0-6-1,0-0-5]				
LOADING	\	SPACING- 2-0-0		DEFL. in (loc) I/de		GRIP
TCLL TCDL	25.0 20.0	Plate Grip DOL 1.15 Lumber DOL 1.15		Vert(LL) -0.27 8-10 >94 Vert(CT) -0.60 8-10 >42		197/144 148/108
BCLL	0.0	Rep Stress Incr YES	WB 0.41	Horz(CT) 0.07 7 n/		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 77 II	o FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 **WEBS** 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0

REACTIONS. (size) 1=0-4-0, 7=Mechanical

Max Horz 1=52(LC 12)

Max Uplift 1=-165(LC 12), 7=-162(LC 13) Max Grav 1=1155(LC 1), 7=1155(LC 1)

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

1-3=-1810/280, 3-4=-1545/283, 4-5=-1468/272, 5-7=-1737/272 **BOT CHORD**

1-10=-195/1561, 8-10=-280/1933, 7-8=-173/1485

WEBS 3-10=-14/462, 4-10=-561/180, 4-8=-638/187, 5-8=-15/478

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-9-0, Exterior(2R) 5-9-0 to 9-11-15, Interior(1) 9-11-15 to 15-7-0, Exterior(2R) 15-7-0 to 19-9-15, Interior(1) 19-9-15 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



21-0-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (4-4-7 max.): 3-5.

Rigid ceiling directly applied.

March 26,2021



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

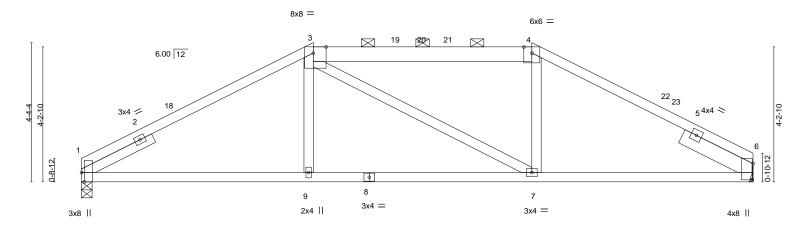
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358369 2704151 B04 Hip Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:48 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID: wH4RYhEsTNeUP2dXvOfi1syQY8e-pls3plgpgHksZrVlzeObfj2jflKUObMpnd9HS9zXQHL21-0-0 7-3-0 7-3-0 6-10-0 6-11-0

Scale = 1:36.0



	7-3-0				6-10-0				1	6-11-0		
Plate Offse	Plate Offsets (X,Y) [1:0-3-8,Edge], [3:0-4-13,Edge], [6:0-6-1,0-0-5]											
LOADING TCLL TCDL	25.0 20.0	SPACING- Plate Grip DOL Lumber DOL	2-0-0 1.15 1.15	CSI. TC BC	0.44 0.54	DEFL. Vert(LL) Vert(CT)	in -0.07 -0.16	(loc) 7-9 7-9	I/defI >999 >999	L/d 240 180	PLATES MT20	GRIP 197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TF	YES PI2014	WB Matri	0.26 ix-AS	Horz(CT)	0.06	6	n/a	n/a	Weight: 79 lb	FT = 20%

14-1-0

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD 3-4: 2x6 SPF No.2

BOT CHORD 2x4 SPF No.2 **WEBS** 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0

REACTIONS. (size) 1=0-4-0, 6=Mechanical

Max Horz 1=67(LC 12)

Max Uplift 1=-163(LC 12), 6=-160(LC 13) Max Grav 1=1155(LC 1), 6=1155(LC 1)

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

7-3-0

TOP CHORD 1-3=-1674/291, 3-4=-1399/304, 4-6=-1659/286 **BOT CHORD** 1-9=-189/1462, 7-9=-191/1457, 6-7=-174/1405

WEBS 3-9=0/288, 4-7=0/285

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-3-0, Exterior(2R) 7-3-0 to 11-5-15, Interior(1) 11-5-15 to 14-1-0, Exterior(2R) 14-1-0 to 18-3-15, Interior(1) 18-3-15 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) except (jt=lb) 1=163, 6=160.
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



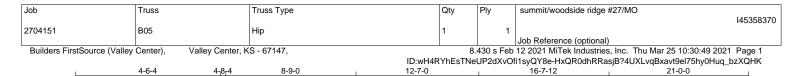
21-0-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (5-5-11 max.): 3-4.

Rigid ceiling directly applied.





3-10-0

4-0-12

21-0-0

Structural wood sheathing directly applied, except

2-0-0 oc purlins (5-0-14 max.): 4-5.

Rigid ceiling directly applied.

Scale = 1:36.0

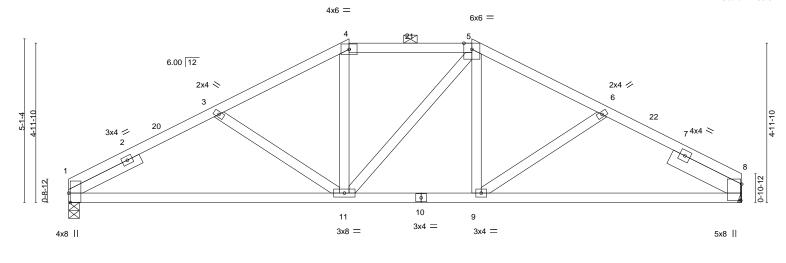


Plate Offs	sets (X,Y)	[1:0-3-8,Edge], [8:0-6-1,0)-0-5]								
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.10 11-1	4 >999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.60	Vert(CT)	-0.21 11-1	4 >999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.05	8 n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matrix	(-AS	, ,				Weight: 85 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2

BOT CHORD 2x4 SPF No.2 **WEBS** 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0

REACTIONS. (size) 1=0-4-0, 8=Mechanical

Max Horz 1=80(LC 12)

Max Uplift 1=-160(LC 12), 8=-157(LC 13) Max Grav 1=1155(LC 1), 8=1155(LC 1)

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

 $1\hbox{-}3\hbox{--}1758/324, 3\hbox{-}4\hbox{--}1510/286, 4\hbox{-}5\hbox{--}1280/291, 5\hbox{-}6\hbox{--}1466/283, 6\hbox{-}8\hbox{--}1674/311}$ TOP CHORD **BOT CHORD**

4-8-4 0-2-0

4-0-12

1-11=-261/1529. 9-11=-137/1262. 8-9=-220/1432 **WEBS** 4-11=-26/303, 5-9=-28/263, 3-11=-307/155

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-9-0, Exterior(2E) 8-9-0 to 12-7-0, Exterior(2R) 12-7-0 to 16-9-7, Interior(1) 16-9-7 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) except (jt=lb) 1=160, 8=157
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021

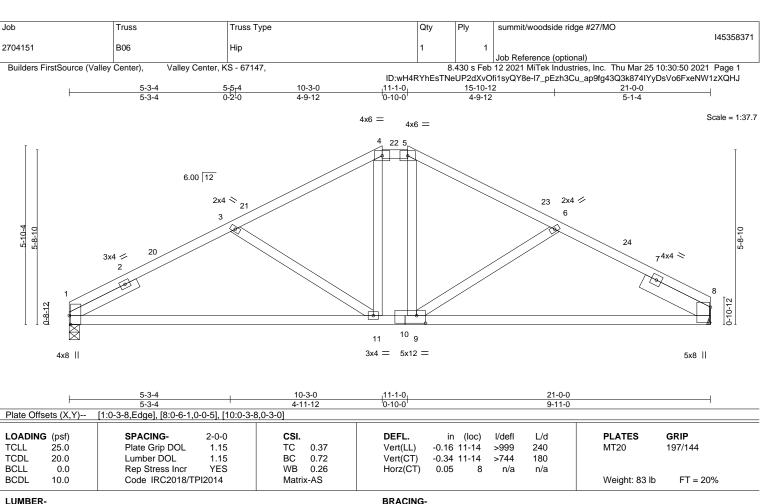


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TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins (5-1-5 max.): 4-5.

Rigid ceiling directly applied.

LUMBER-

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

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0

REACTIONS. (size) 1=0-4-0, 8=Mechanical

Max Horz 1=93(LC 12)

Max Uplift 1=-157(LC 12), 8=-154(LC 13) Max Grav 1=1155(LC 1), 8=1155(LC 1)

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

 $1\hbox{-}3\hbox{--}1697/297, 3\hbox{-}4\hbox{--}1387/253, 4\hbox{--}5\hbox{--}1147/253, 5\hbox{-}6\hbox{--}1375/252, 6\hbox{-}8\hbox{--}1669/289}$ TOP CHORD **BOT CHORD**

1-11=-261/1511, 9-11=-88/1147, 8-9=-193/1432

WEBS 4-11=-45/359, 5-9=-41/263, 6-9=-389/190, 3-11=-467/205

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-3-0, Exterior(2E) 10-3-0 to 11-1-0, Exterior(2R) 11-1-0 to 15-3-15, Interior(1) 15-3-15 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) except (jt=lb) 1=157, 8=154
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021



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



Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358372 2704151 B07 Common | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:51 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-EKXBRJihzC6RQIEsemxIGMgFqyLBb_zFTbNx3UzXQHI 10-8-0 5-0-4 5-3-12 Scale = 1:39.0 4x8 = 6.00 12 21 2x4 // 2x4 \\ 5 22 6^{4x4} ≥ 3x4 / 0-10-12 0-8-12 10 9 3x4 =3x4 = 3x4 = 3x8 || 4x8 || 13-10-13 Plate Offsets (X,Y)--[1:0-3-8,Edge], [7:0-6-1,0-0-5] SPACING-**PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.07 8-10 >999 240 MT20 197/144

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.17

0.05

8-10

>999

n/a

Rigid ceiling directly applied.

180

n/a

Structural wood sheathing directly applied.

LUMBER-

TCDL

BCLL

BCDL

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

20.0

0.0

10.0

SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x6 SPF No.2 -t 2-6-0

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

REACTIONS. (size) 1=0-4-0, 7=Mechanical

Max Horz 1=98(LC 12)

Max Uplift 1=-156(LC 12), 7=-153(LC 13) Max Grav 1=1155(LC 1), 7=1155(LC 1)

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

1-3=-1764/349, 3-4=-1615/372, 4-5=-1533/356, 5-7=-1685/338 TOP CHORD

BOT CHORD 1-10=-255/1525, 8-10=-114/1074, 7-8=-228/1438

WEBS 3-10=-392/190, 4-10=-133/563, 4-8=-114/478, 5-8=-340/179

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0. Interior(1) 3-0-0 to 10-8-0, Exterior(2R) 10-8-0 to 13-8-0, Interior(1) 13-8-0 to 21-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

BC

WB

Matrix-AS

0.54

0.14

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

1.15

YES

- 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) except (jt=lb) 1=156, 7=153.
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



FT = 20%

Weight: 81 lb

March 26,2021



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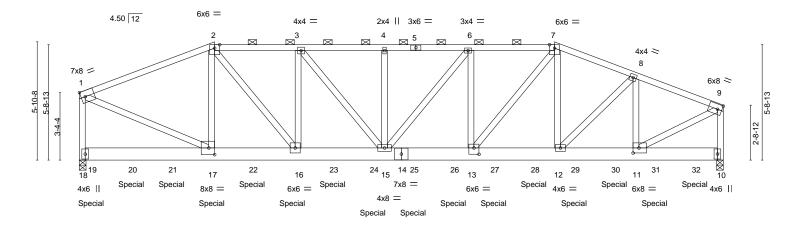
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



8.430 s Nov 18 2020 MiTek Industries, Inc. Thu Mar 25 13:48:59 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-orVjFesEJIZ5SKzzzlt26Y1hM4ImzMr3676?IRzXNNY 6-8-11 10-10-7 15-2-0 19-5-9 23-7-5 27-7-15 32-0-0 3-2-9 4-1-13 4-3-9 4-3-9 4-1-13 4-0-9

Scale = 1:57.2



3-6-1 6-8-11	10-10-7	15-2-0	19-5-9	23-7-5	27-7-15	32-0-0
3-6-1 3-2-9	4-1-13	4-3-9	4-3-9	4-1-13	4-0-9	4-4-1
[11:0-3-8,0-3-0], [13:0-3-0),0-3-12], [17:0-3-8,0-4	-0]				
SPACING-	2-0-0 C	SI.	DEFL. in	(loc) I/defl L/	d PLATE	S GRIP
Plate Grip DOL	1.15 T	C 0.85	Vert(LL) -0.18	15 >999 24	0 MT20	197/144
Lumber DOL	1.15 E	C 0.33	Vert(CT) -0.40 1	3-15 >952 18	0	
Rep Stress Incr	NO V	VB 0.91	Horz(CT) 0.05	10 n/a n/	'a	
Code IRC2018/TF	PI2014 N	fatrix-MS			Weight:	440 lb FT = 20%
	3-6-1 3-2-9 [11:0-3-8,0-3-0], [13:0-3-0 SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	3-6-1 3-2-9 4-1-13 [11:0-3-8,0-3-0], [13:0-3-0,0-3-12], [17:0-3-8,0-4 SPACING- 2-0-0 C Plate Grip DOL 1.15 T Lumber DOL 1.15 B Rep Stress Incr NO V	3-6-1 3-2-9 4-1-13 4-3-9 [11:0-3-8,0-3-0], [13:0-3-0,0-3-12], [17:0-3-8,0-4-0] SPACING- 2-0-0 CSI. Plate Grip DOL 1.15 TC 0.85 Lumber DOL 1.15 BC 0.33 Rep Stress Incr NO WB 0.91	3-6-1 3-2-9 4-1-13 4-3-9 4-3-9 [11:0-3-8,0-3-0], [13:0-3-0,0-3-12], [17:0-3-8,0-4-0] SPACING- 2-0-0 CSI. DEFL. in Plate Grip DOL 1.15 TC 0.85 Vert(LL) -0.18 Lumber DOL 1.15 BC 0.33 Vert(CT) -0.40 1 Rep Stress Incr NO WB 0.91 Horz(CT) 0.05	3-6-1 3-2-9 4-1-13 4-3-9 4-3-9 4-1-13 [11:0-3-8,0-3-0], [13:0-3-0,0-3-12], [17:0-3-8,0-4-0] SPACING- 2-0-0 CSI. DEFL. in (loc) //defl L/ Plate Grip DOL 1.15 TC 0.85 Vert(LL) -0.18 15 >999 24 Lumber DOL 1.15 BC 0.33 Vert(CT) -0.40 13-15 >952 18 Rep Stress Incr NO WB 0.91 Horz(CT) 0.05 10 n/a n/	3-6-1 3-2-9 4-1-13 4-3-9 4-3-9 4-1-13 4-0-9 [11:0-3-8,0-3-0], [13:0-3-0,0-3-12], [17:0-3-8,0-4-0] SPACING- 2-0-0 CSI. DEFL. in (loc) /defl L/d Plate Grip DOL 1.15 TC 0.85 Vert(LL) -0.18 15 >999 240 MT20 Lumber DOL 1.15 BC 0.33 Vert(CT) -0.40 13-15 >952 180 Rep Stress Incr NO WB 0.91 Horz(CT) 0.05 10 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*

1-2: 2x4 SPF 1650F 1.5E

3-6-1

3-6-1

BOT CHORD 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2

REACTIONS. (size) 10=0-4-0, 18=0-4-0

Max Horz 18=-92(LC 6)

Max Uplift 10=-1244(LC 5), 18=-1333(LC 4) Max Grav 10=6968(LC 1), 18=7002(LC 1)

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

TOP CHORD 1-2=-7400/1424, 2-3=-9413/1782, 3-4=-10587/1927, 4-5=-10587/1927, 5-6=-10587/1927,

6-7=-10258/1847, 7-8=-8767/1591, 8-9=-7161/1282, 1-18=-5878/1148, 9-10=-6297/1139 17-22=-1285/6885, 16-22=-1285/6885, 16-23=-1706/9409, 23-24=-1706/9409,

15-24=-1706/9409, 14-15=-1770/10254, 14-25=-1770/10254, 25-26=-1770/10254,

13-26=-1770/10254, 13-27=-1439/8193, 27-28=-1439/8193, 12-28=-1439/8193,

12-29=-1203/6642, 29-30=-1203/6642, 11-30=-1203/6642

WEBS 1-17=-1387/7379 2-17=-1110/166 2-16=-687/4182 3-16=-2006/328 3-15=-267/1904

 $4-15=-384/125,\ 6-15=-198/596,\ 6-13=-1006/272,\ 7-13=-563/3431,\ 8-12=-351/2265,$

8-11=-2367/441, 9-11=-1322/7457

NOTES-

BOT CHORD

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

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

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; 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
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) Bearing at joint(s) 10, 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1244 lb uplift at joint 10 and 1333 lb uplift at joint 18.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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





Sheathed or 3-9-10 oc purlins, except end verticals, and 2-0-0 oc

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

purlins (3-2-5 max.): 2-7.





Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #27/MO	
2704151	C01	HIP GIRDER	1	2	Job Reference (optional)	145358373

B.430 s Nov 18 2020 MiTek Industries, Inc. Thu Mar 25 13:49:00 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-G235T_st4chy4UYAWTOHflas6U5?ip5CLnrYqtzXNNX

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 615 lb down and 111 lb up at 0-7-4, 609 lb down and 135 lb up at 2-7-4, 609 lb down and 170 lb up at 4-7-4, 609 lb down and 203 lb up at 6-7-4, 609 lb down and 137 lb up at 8-7-4, 609 lb down and 137 lb up at 10-7-4, 609 lb down and 137 lb up at 12-7-4, 724 lb down and 108 lb up at 14-7-4, 724 lb down and 108 lb up at 16-7-4, 724 lb down and 108 lb up at 18-7-4, 724 lb down and 108 lb up at 20-7-4, 724 lb down and 108 lb up at 22-7-4, 655 lb down and 195 lb up at 24-7-4, 645 lb down and 134 lb up at 26-7-4, and 645 lb down and 131 lb up at 28-7-4, and 645 lb down and 136 lb up at 30-7-4 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: 1-2=-90, 2-7=-90, 7-9=-90, 10-18=-20

Concentrated Loads (lb)

Vert: 17=-609(B) 16=-609(B) 19=-615(B) 20=-609(B) 21=-609(B) 22=-609(B) 23=-609(B) 24=-724(B) 25=-724(B) 26=-724(B) 27=-724(B) 28=-724(B) 29=-655(B) 30=-645(B) 31=-645(B) 32=-645(B)

Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358374 2704151 C02 Roof Special Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:54 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-evDK3LkaG7U?HmyRJuV?u_IdoAHkoCQh9YcbfozXQHF

18-5-5

7-2-11

21-2-0

2-8-11

25-2-0

4-0-0

Scale = 1:57.9

32-0-0

6-10-0

32-0-0

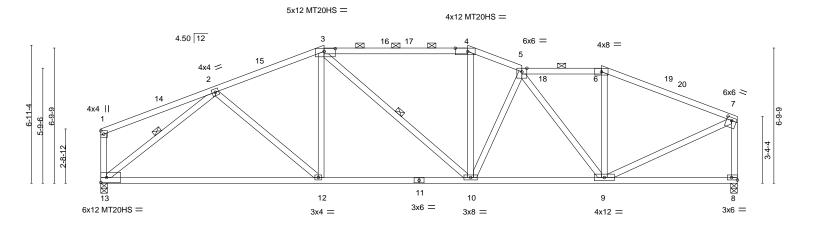
Structural wood sheathing directly applied, except end verticals, and

3-10, 2-13

2-0-0 oc purlins (2-2-0 max.): 3-4, 5-6.

Rigid ceiling directly applied.

1 Row at midpt



		J-9-1	3-3-8	7	1-2-11	2-0-11		4-0-0	0-10-0
Plate Offse	ets (X,Y)	[3:0-6-12,0-1-12], [4:0-7-	8,0-2-0], [7:0-3	-0,0-1-12], [8:Edge,0-1-8]				
LOADING TCLL	(psf) 25.0	SPACING- Plate Grip DOL	2-0-0 1.15	CSI. TC 0.85	DEFL. Vert(LL)	in (loc) -0.34 12-13	l/defl >999	L/d 240	PLATES GRIP MT20 197/144
TCDL BCLL	20.0	Lumber DOL Rep Stress Incr	1.15 1.15 YES	BC 0.94 WB 0.73	Vert(CT) Horz(CT)	-0.70 12-13 0.08 8	>545 n/a	180 n/a	MT20HS 148/108
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS					Weight: 150 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 *Except* TOP CHORD

3-4: 2x4 SPF 1650F 1.5E

5-9-1

5-9-1

5-5-9

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 8=0-4-0, 13=0-4-0

Max Horz 13=87(LC 9)

Max Uplift 8=-281(LC 9), 13=-257(LC 8) Max Grav 8=1744(LC 1), 13=1744(LC 1)

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

2-3=-2186/382, 3-4=-2105/417, 4-5=-2254/421, 5-6=-1690/334, 6-7=-1903/315, TOP CHORD

1-13=-285/75, 7-8=-1678/302

BOT CHORD 12-13=-362/1774, 10-12=-330/1978, 9-10=-382/2219

WEBS 3-10=-97/323, 4-10=-11/331, 5-10=-281/135, 7-9=-268/1777, 5-9=-884/156,

2-13=-2135/365, 2-12=0/419

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-2-11, Exterior(2R) 11-2-11 to 14-2-11, Interior(1) 14-2-11 to 18-5-5, Exterior(2E) 18-5-5 to 21-2-0, Interior(1) 21-2-0 to 25-2-0, Exterior(2R) 25-2-0 to 28-2-0, Interior(1) 28-2-0 to 31-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=281, 13=257.
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021



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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358375 2704151 C03 Roof Special | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:55 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

6-9-9

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-65niHhlC1QcsvwXetc0ERBqrUZh1XiwrOCL8CFzXQHE 23-10-0 27-10-0 19-9-11 32-0-0 1-10-11 4-0-5 4-0-5 4-0-0 4-2-0

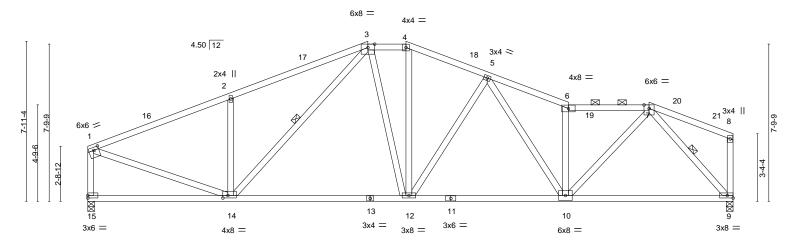
Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

1 Row at midpt

Scale = 1:57.1



	<u> </u>	7-1-1	1	13-10-11	15-9-5	23-10-0		27-10-0	32-0-0
		7-1-1		6-9-9	' 1-10-11 '	8-0-11	<u> </u>	4-0-0	4-2-0
Plate Offse	ets (X,Y)	[1:0-3-0,0-1-12], [14:0-3-0,0)-1-8]						
LOADING	(psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/de	fl L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC 0.	.66 Vert(LL)	-0.13 12-14 >99	9 240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.	.68 Vert(CT) -0.34 12-14 >99	9 180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.	.53 Horz(C	n/	a n/a		
BCDL	10.0	Code IRC2018/TPI2	2014	Matrix-A	S			Weight: 15	57 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 15=0-4-0, 9=0-4-0 Max Horz 15=77(LC 9)

Max Uplift 15=-237(LC 8), 9=-263(LC 9) Max Grav 15=1744(LC 1), 9=1744(LC 1)

7-1-1

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

TOP CHORD 1-2=-2193/329, 2-3=-2206/425, 3-4=-1850/374, 4-5=-2044/385, 5-6=-2555/427,

6-7=-2365/374, 1-15=-1679/261

BOT CHORD 12-14=-295/1814, 10-12=-344/2144, 9-10=-253/1352

WEBS 2-14=-673/264, 3-12=-88/347, 4-12=-89/485, 5-12=-572/190, 5-10=-81/395,

6-10=-1241/251, 7-10=-180/1504, 1-14=-245/1974, 7-9=-1964/343, 3-14=-164/360

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-10-11, Exterior(2E) 13-10-11 to 15-9-5, Exterior(2R) 15-9-5 to 18-9-5, Interior(1) 18-9-5 to 27-10-0, Exterior(2R) 27-10-0 to 30-10-0, Interior(1) 30-10-0 to 31-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=237, 9=263
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358376 2704151 C04 **ROOF SPECIAL** | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:56 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-aHL4U1mqnkkjX46qRJXTzPN?8z_YG85_ds5ikhzXQHD

7-3-4

20-8-0

5-10-0

21-11-8

1-3-8

26-6-0

4-6-8

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

1 Row at midpt

30-6-0

4-0-0

Scale = 1:59.0

32-0-0

1-6-0

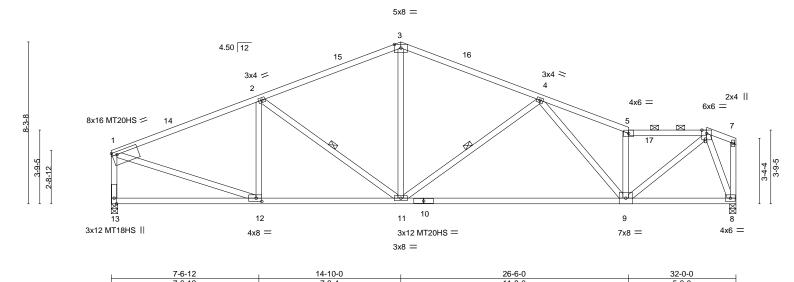


Plate Offse	ets (X,Y)	[1:0-3-0,0-1-12], [12:0-3-	8,0-2-0]									
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.37	9-11	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.81	9-11	>471	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.53	Horz(CT)	0.07	8	n/a	n/a	MT18HS	197/144
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 145 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

2x4 SPF No.2 TOP CHORD 2x4 SPF 1650F 1.5E **BOT CHORD** WEBS 2x4 SPF No.2

REACTIONS. (size) 13=0-4-0, 8=0-4-0

Max Horz 13=73(LC 9)

Max Uplift 13=-230(LC 8), 8=-256(LC 9) Max Grav 13=1744(LC 1), 8=1744(LC 1)

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

TOP CHORD 1-2=-2221/312, 2-3=-2024/341, 3-4=-2015/339, 4-5=-2473/347, 5-6=-2304/300,

1-13=-1664/258

BOT CHORD 11-12=-324/1981, 9-11=-351/2267, 8-9=-135/660

WEBS 2-12=-499/135, 2-11=-390/180, 3-11=-66/720, 5-9=-1196/220, 6-9=-258/2164,

1-12=-238/1956, 6-8=-1823/295, 4-11=-684/233

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 14-10-0, Exterior(2R) 14-10-0 to 17-10-0, Interior(1) 17-10-0 to 30-6-0, Exterior(2E) 30-6-0 to 31-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=230, 8=256
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358377 2704151 C05 **ROOF SPECIAL** Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:57 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-2UvTiMnSY2sa8Dh0?12iWcw8ONI0?bZ8sWqFG7zXQHC 11-2-0 18-4-0 28-4-0 7-11-8 3-2-8 7-2-0 2-10-0

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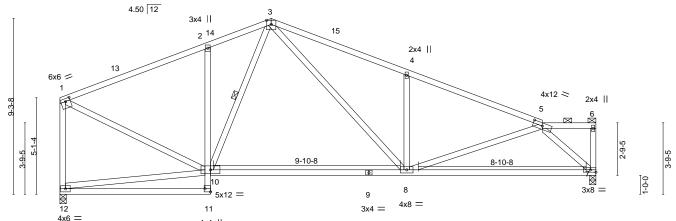
Scale = 1:60.9

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

1 Row at midpt



7-11-8 10-0-0 Plate Offsets (X,Y)--[1:0-3-0,0-1-12], [5:0-6-0,0-1-15], [11:Edge,0-3-8] L/d LOADING (psf) SPACING-DEFL. (loc) I/def **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.89 Vert(LL) -0.24 8-10 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 BC 0.90 Vert(CT) -0.54 8-10 >625 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.52 Horz(CT) 0.06 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 140 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 7=0-4-0, 12=0-4-0 Max Horz 12=-142(LC 10)

Max Uplift 7=-233(LC 13), 12=-205(LC 8) Max Grav 7=1542(LC 1), 12=1542(LC 1)

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

TOP CHORD 1-2=-1559/288, 2-3=-1493/355, 3-4=-2249/442, 4-5=-2228/318, 1-12=-1478/242

BOT CHORD 2-10=-589/231, 8-10=-194/1299, 7-8=-276/1514

3-10=-117/291, 3-8=-253/1071, 4-8=-711/278, 5-8=-24/500, 5-7=-2024/382, WFBS

1-10=-198/1451

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-2-0, Exterior(2R) 11-2-0 to 14-2-0 , Interior(1) 14-2-0 to 28-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=233, 12=205.

4x4 ||

- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021



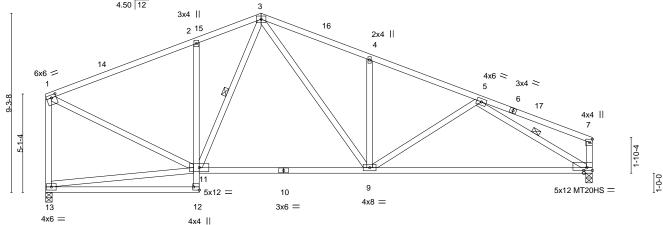
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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



Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358378 2704151 C06 **ROOF SPECIAL** | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:30:59 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-?s0D72oi4f6lOXrP6S4Ab1?U0B09TWZRJqJML0zXQHA 11-2-0 22-5-0 7-11-8 3-2-8 5-7-8 Scale = 1:59.7 4x6 = 4.50 12 3 3x4 ||



16-9-8 7-11-8 Plate Offsets (X,Y)-- [1:0-3-0.0-1-12], [8:Edge.0-1-12], [12:Edge.0-3-8]

	(71,17	[o o o, o	·j, [ago,o o oj								
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.33	8-9	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.69	8-9	>487	180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.07	8	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 142 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

WEBS

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

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

REACTIONS. (size) 13=0-4-0, 8=0-4-0 Max Horz 13=-148(LC 10)

Max Uplift 13=-206(LC 8), 8=-228(LC 13) Max Grav 13=1542(LC 1), 8=1542(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=-1553/291, 2-3=-1494/360, 3-4=-2077/408, 4-5=-2067/329, 5-7=-308/63, TOP CHORD

1-13=-1472/245, 7-8=-323/83

BOT CHORD 2-11=-599/235, 9-11=-141/1294, 8-9=-294/1895

WEBS 4-9=-542/206, 3-9=-231/1004, 3-11=-123/272, 5-8=-2019/343, 1-11=-201/1446

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 11-2-0, Exterior(2R) 11-2-0 to 14-2-0 Interior(1) 14-2-0 to 28-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=206, 8=228
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

3-11, 5-8

Rigid ceiling directly applied.

1 Row at midpt



Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358379 HIP 2704151 C07 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:00 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-T3abKOpKrzE9?hQbg9bP8FYfAaPhCzAaYU3vtSzXQH9

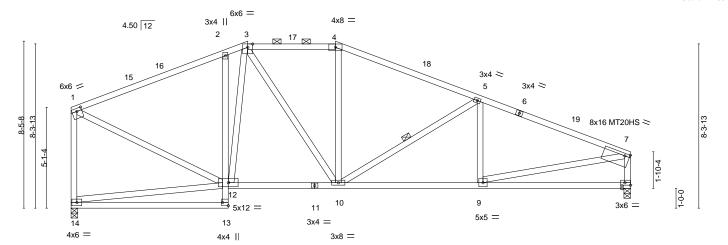
8-11-5 0-11-13

4-5-5

7-11-8

20-8-9 7-3-15

Scale = 1:58.3



		7-11-8	13-4-11	1 20-8-9	1	28-4-0	
		7-11-8	5-5-3	7-3-15	l	7-7-7	
Plate Offse	ets (X,Y)	[1:0-3-0,0-1-12], [7:0-3-0,0-1-8],	8:Edge,0-1-8], [13:Edge,0-3-8]				
						_	
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 0.85	Vert(LL) -0.11 13-14	>999 240	MT20	197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.22 13-14	>999 180	MT20HS	148/108
BCLL	0.0	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.05 8	n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS	, ,		Weight: 147 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SPF No.2

REACTIONS. (size) 14=0-4-0, 8=0-4-0 Max Horz 14=-157(LC 10)

Max Uplift 14=-229(LC 8), 8=-234(LC 9) Max Grav 14=1542(LC 1), 8=1542(LC 1)

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

1-2=-1549/296, 2-3=-1495/356, 3-4=-1568/344, 4-5=-1797/331, 5-7=-2289/360, TOP CHORD

1-14=-1465/248, 7-8=-1465/261

2-12=-618/264, 10-12=-158/1318, 9-10=-299/2043 BOT CHORD

WEBS 3-10=-134/540, 5-9=-252/122, 7-9=-254/1876, 1-12=-205/1447, 5-10=-589/198

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 8-11-5, Exterior(2E) 8-11-5 to 13-4-11, Exterior(2R) 13-4-11 to 17-7-9, Interior(1) 17-7-9 to 28-2-4 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=229, 8=234
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

2-0-0 oc purlins (4-4-12 max.): 3-4.

Rigid ceiling directly applied.

1 Row at midpt

March 26,2021



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

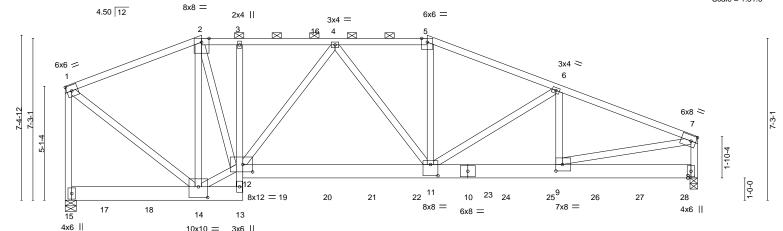
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



8.430 s Nov 18 2020 MiTek Industries, Inc. Thu Mar 25 13:49:38 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-9LMTR_Ki7HTZdKRTIS4CCm8PJo1Oc_no4h2Z9gzXNMx 6-1-5 7-11-8 12-1-1 16-2-11 22-1-9 28-4-0 2-10-15 1-10-3 4-1-9 4-1-9 5-10-15 6-2-7

Scale = 1:51.6



		6-1-5	7-11-8	12-1-1	16-2-11	22-1-9	28-4-0	
	I.	6-1-5	1-10-3	4-1-9	4-1-9	5-10-15	6-2-7	
Plate Offset	ts (X,Y)	[9:0-3-8,0-3-8], [11:0-4-0,	0-6-0], [12:0-5	-4,0-4-0], [14:0-5-0,0	0-5-12]			
LOADING	(ncf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl L/	d PLATES GRIP	
	VI /					(/		
	25.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.18 11-12 >999 24		
TCDL 2	20.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.39 11-12 >867 18	0	
BCLL	0.0	Rep Stress Incr	NO	WB 0.96	Horz(CT)	0.08 8 n/a n/	a	
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix-MS			Weight: 395 lb FT = 20%	%

BOT CHORD

LUMBER-

BRACING-TOP CHORD 2x4 SPF No.2 *Except* TOP CHORD

5-7: 2x4 SPF 1650F 1.5E

2x8 SP 2400F 2.0E *Except* **BOT CHORD**

3-2-7

3-13: 2x4 SPF No.2

WEBS 2x4 SPF No.2

REACTIONS. (size) 8=0-4-0, 15=0-6-0

Max Horz 15=-162(LC 27)

Max Uplift 8=-1225(LC 5), 15=-1185(LC 4)

Max Grav 8=6417(LC 1), 15=6149(LC 1)

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

TOP CHORD 1-2=-4908/1002, 2-3=-6097/1257, 3-16=-6155/1266, 4-16=-6155/1266, 4-5=-7696/1596,

5-6=-8350/1683, 6-7=-8730/1702, 1-15=-5525/1089, 7-8=-5120/1013 **BOT CHORD** 3-12=-370/102, 12-19=-1344/7118, 19-20=-1344/7118, 20-21=-1344/7118,

21-22=-1344/7118, 11-22=-1344/7118, 11-23=-1564/8087, 10-23=-1564/8087,

10-24=-1564/8087, 24-25=-1564/8087, 9-25=-1564/8087, 9-26=-114/478, 26-27=-114/478,

27-28=-114/478 8-28=-114/478

WFBS 1-14=-1105/5754. 2-14=-3765/700. 12-14=-904/5175. 2-12=-1014/5369. 5-11=-470/2512.

 $6-11=-413/154,\ 6-9=-330/174,\ 7-9=-1492/7825,\ 4-12=-1658/395,\ 4-11=-236/1008$

NOTES-

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

Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-8-0 oc, 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

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

4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; 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

5) Provide adequate drainage to prevent water ponding.

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

7) Bearing at joint(s) 8, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

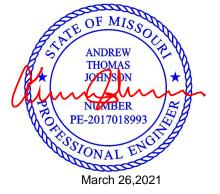
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1225 lb uplift at joint 8 and 1185 lb uplift at joint 15.

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

10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

🗥 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





Sheathed or 4-7-10 oc purlins, except end verticals, and 2-0-0 oc

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

purlins (4-3-5 max.): 2-5.

6-0-0 oc bracing: 13-14.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #27/MO	
2704151	C08	HIP GIRDER	1	2	Job Reference (optional)	145358380

8.430 s Nov 18 2020 MiTek Industries, Inc. Thu Mar 25 13:49:38 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-9LMTR_Ki7HTZdKRTIS4CCm8PJo1Oc_no4h2Z9gzXNMx

NOTES-

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 703 lb down and 138 lb up at 1-8-12, 703 lb down and 155 lb up at 3-8-12, 703 lb down and 193 lb up at 5-8-12, 712 lb down and 128 lb up at 7-9-12, 671 lb down and 141 lb up at 9-8-12, 671 lb down and 141 lb up at 11-8-12, 671 lb down and 141 lb up at 13-8-12, 671 lb down and 141 lb up at 15-8-12, 671 lb down and 197 lb up at 17-8-12, 671 lb down and 162 lb up at 19-8-12, 658 lb down and 127 lb up at 21-8-12, 658 lb down and 129 lb up at 23-8-12, and 658 lb down and 136 lb up at 25-8-12, and 663 lb down and 135 lb up at 27-8-12 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: 1-2=-90, 2-5=-90, 5-7=-90, 13-15=-20, 8-12=-20

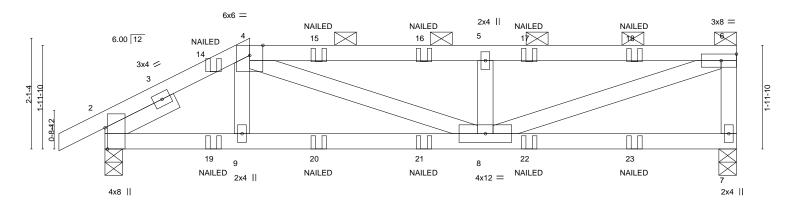
Concentrated Loads (lb)

Vert: 13=-712(B) 14=-703(B) 17=-703(B) 18=-703(B) 19=-671(B) 20=-671(B) 21=-671(B) 22=-671(B) 23=-671(B) 24=-671(B) 25=-658(B) 26=-658(B) 27=-658(B) 28=-663(B)

Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358381 2704151 D01 HALF HIP GIRDER | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:03 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-tdGkyQrD8ucks88ALH96lt9FZoPFPLD0ESHZUnzXQH6

4-5-12

Scale = 1:21.9



	⊢	2-9-0	7-2-1:	=	1	12-0-0
	<u>'</u>	2-9-0	4-5-1:	2	<u> </u>	4-9-4
Plate Off	sets (X,Y)	[2:0-4-13,Edge]				
LOADIN	G (psf)	SPACING- 2-0	0 CSI.	DEFL. in	(loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.	5 TC 0.53	Vert(LL) -0.05	8-9 >999 240	MT20 197/144
TCDL	20.0	Lumber DOL 1.	5 BC 0.65	Vert(CT) -0.11	8-9 >999 180	
BCLL	0.0	Rep Stress Incr	O WB 0.44	Horz(CT) 0.01	7 n/a n/a	
BCDL	10.0	Code IRC2018/TPI201	Matrix-MS	. ,		Weight: 46 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

0-10-8

2-9-0

SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 7=0-4-0, 2=0-4-0 Max Horz 2=72(LC 7)

Max Uplift 7=-215(LC 5), 2=-220(LC 8) Max Grav 7=914(LC 1), 2=1043(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-4=-1426/327, 4-5=-1780/427, 5-6=-1776/426, 6-7=-836/223 TOP CHORD

BOT CHORD 2-9=-327/1237, 8-9=-328/1226

WEBS 4-8=-151/612, 5-8=-631/218, 6-8=-436/1796

- 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=4.2psf; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=215, 2=220
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) 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

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 7-10=-20

Concentrated Loads (lb)

Vert: 14=-32(B) 15=-57(B) 16=-57(B) 17=-57(B) 18=-57(B) 19=-152(B) 20=-41(B) 21=-41(B) 22=-41(B) 23=-41(B)



Structural wood sheathing directly applied or 4-5-5 oc purlins,

except end verticals, and 2-0-0 oc purlins (3-10-11 max.): 4-6.

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

March 26,2021



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

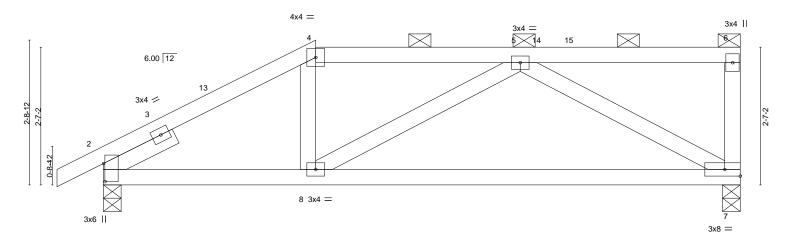
Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358382 2704151 D02 HALF HIP | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:03 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-tdGkyQrD8ucks88ALH96lt9JGoSIPND0ESHZUnzXQH6 7-10-4 12-0-0 0-10-8 4-0-0 3-10-4

Scale = 1:21.7



	\vdash	4-0-0 4-0-0		+					12-0-0 8-0-0			
Plate Offs	sets (X,Y)	[2:0-4-1,0-0-5]										
LOADING	· · ·	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL TCDL	25.0 20.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC BC	0.29 0.46	Vert(LL) Vert(CT)	-0.10 -0.22	7-8 7-8	>999 >651	240 180	MT20	197/144
BCLL BCDL	0.0 10.0	Rep Stress Incr Code IRC2018/TF	YES PI2014	WB Matri	0.31 x-AS	Horz(CT)	0.01	7	n/a	n/a	Weight: 46 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 2=0-4-0, 7=0-4-0 Max Horz 2=98(LC 11)

Max Uplift 2=-91(LC 12), 7=-119(LC 9) Max Grav 2=734(LC 1), 7=649(LC 1)

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

TOP CHORD 2-4=-922/220, 4-5=-769/227 **BOT CHORD** 2-8=-246/774, 7-8=-251/766

WEBS 5-7=-810/261

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-0-0, Exterior(2R) 4-0-0 to 8-2-15, Interior(1) 8-2-15 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=119.
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

March 26,2021



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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358383 2704151 D03 HALF HIP Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:04 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Lqq6AmsrvBlbUljMv?qLl5iOJCqb8lwAT6170DzXQH5 0-10-8 6-6-0 Scale = 1:22.0 6x6 = 4x6 = >(3 6.00 12 3x4 / 7 2x4 || 3x6 || 3x6 =12-0-0 Plate Offsets (X,Y)--[2:0-4-1,0-0-5], [5:Edge,0-2-0] SPACING-L/d **PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.65 Vert(LL) -0.05 6-7 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 BC 0.33 Vert(CT) -0.09 6-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.60 Horz(CT) 0.01 6 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 45 lb Matrix-AS LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals, and BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-5. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied. **SLIDER** Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 2=0-4-0, 6=0-4-0 Max Horz 2=129(LC 11)

Max Uplift 2=-103(LC 12), 6=-117(LC 9)

Max Grav 2=734(LC 1), 6=649(LC 1)

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

2-4=-851/212, 5-6=-292/112 TOP CHORD **BOT CHORD** 2-7=-273/701. 6-7=-275/695

WEBS 4-6=-680/248

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-6-0, Exterior(2R) 5-6-0 to 9-8-15, Interior(1) 9-8-15 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=103, 6=117.
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021

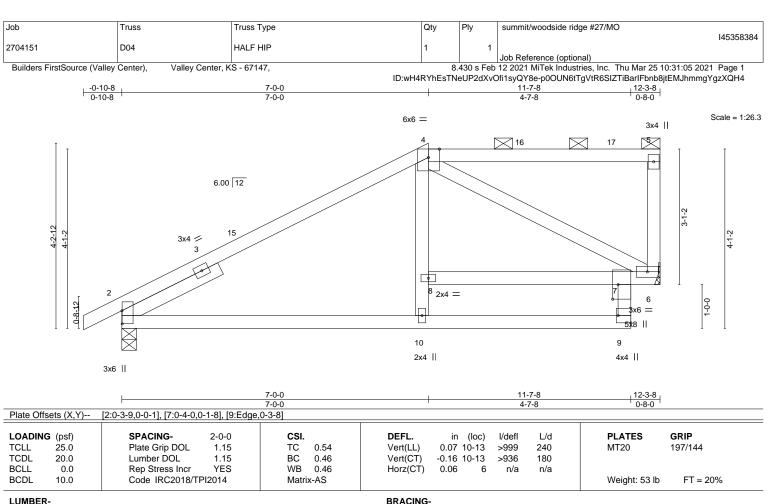


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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





TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 -t 2-6-0

REACTIONS. (size) 6=Mechanical, 2=0-4-0

Max Horz 2=139(LC 9)

Max Uplift 6=-116(LC 9), 2=-112(LC 12) Max Grav 6=665(LC 1), 2=750(LC 1)

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

TOP CHORD 2-4=-692/179 **BOT CHORD**

2-10=-235/588, 9-10=-145/393, 7-8=-125/259, 6-7=-270/652

WEBS 4-6=-732/274

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8. Interior(1) 2-1-8 to 7-0-0, Exterior(2R) 7-0-0 to 11-2-15, Interior(1) 11-2-15 to 12-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) except (jt=lb) 6=116, 2=112.
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

March 26,2021





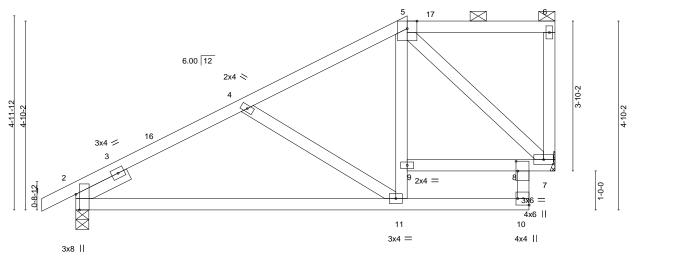
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358385 2704151 D05 HALF HIP | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:06 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-ICxsbRu5Rp?ljctl0QipNWnrk?VDckETwQWE46zXQH3 -0-10-8 0-10-8 8-6-0 4-4-12 3-1-8 0-8-0 Scale = 1:29.6 6x6 = 2x4 ||



8-6-0 11-7-8 12-3-8 Plate Offsets (X,Y)-- [2:0-4-13,Edge], [8:0-3-0,0-0-8], [10:Edge,0-3-8]

LOADING	(nsf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
	25.0	Plate Grip DOL		TC.	0.21	Vert(LL)	-0.09	٠,	>999	240	MT20	197/144
		· ·	1.15	10	0.21	' '			>999	240	IVI I 20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.45	Vert(CT)	-0.19 1	11-14	>781	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code IRC2018/TP	PI2014	Matri	x-AS						Weight: 56 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 7=Mechanical, 2=0-4-0

Max Horz 2=170(LC 9)

Max Uplift 7=-111(LC 9), 2=-116(LC 12) Max Grav 7=665(LC 1), 2=750(LC 1)

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

TOP CHORD 2-4=-829/206, 4-5=-537/150 **BOT CHORD**

2-11=-345/736, 10-11=-134/306, 7-8=-190/423 **WEBS** 4-11=-389/196, 9-11=-26/352, 5-9=-25/325, 5-7=-586/208

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 8-6-0, Exterior(2E) 8-6-0 to 12-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) except (jt=lb) 7=111, 2=116.
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

March 26,2021



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

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



Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358386 2704151 D06 HALF HIP Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

-0-10-8 0-10-8

5-1-12

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:07 2021 Page 1

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-mPVEonukC679LmSxa7D2wjK_YPoOLBjc94FndYzXQH2 10-0-0 11-7-8 12-3-8 0-8-0 4-10-4 1-7-8

6x6 = 2x4 || 6 6.00 12 2x4 💸 17 5-8-12 3x4 🖊 3 2x4 = 1-0-0 7 11 10 3x4 || 3x4 = 4x8 || 3x4 =

> 10-0-0 0-8-0

> > BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:0-4-13,Edge], [8:0-0-8,0-1-8]					
LOADING (psf)	SPACING-	2-0-0				

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in
TCLL	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.16
TCDL	20.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.32
BCLL	0.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.02
BCDL	10.0	Code IRC2018/TF	PI2014	Matrix	x-AS		
						1	

L/d (loc) I/def 3 11-14 >939 240 2 11-14 >456 180 n/a n/a

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

Rigid ceiling directly applied.

FT = 20% Weight: 57 lb

PLATES

MT20

Structural wood sheathing directly applied, except end verticals, and

GRIP

197/144

Scale = 1:34.4

LUMBER-

REACTIONS.

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

SLIDER Left 2x4 SPF No.2 -t 1-6-0

(size) 7=Mechanical, 2=0-4-0

Max Horz 2=201(LC 9)

Max Uplift 7=-114(LC 12), 2=-116(LC 12) Max Grav 7=665(LC 1), 2=750(LC 1)

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

TOP CHORD 2-4=-798/195, 4-5=-408/120 **BOT CHORD** 2-11=-331/705, 7-8=-137/270

WEBS 4-11=-509/231, 9-11=-26/499, 5-9=-48/427, 5-7=-605/198

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-0-0, Exterior(2E) 10-0-0 to 12-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) except (jt=lb) 7=114, 2=116.
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358387 2704151 D07 HALF HIP Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:09 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-ind?DTw_kkNta3cKiYGX?8PCBDSsp2evcOkuhRzXQH0

Structural wood sheathing directly applied, except

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

Rigid ceiling directly applied.

5-10-12 5-10-12

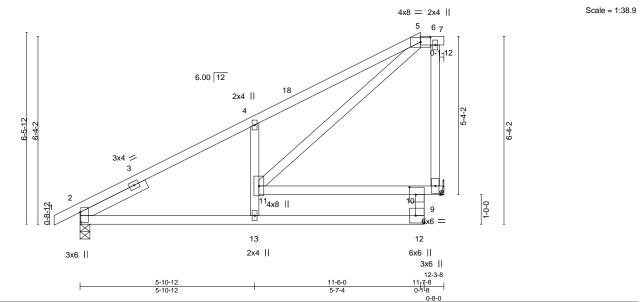


Plate Offsets (X,Y)-- [2:0-4-1,0-0-5], [5:0-4-0,0-1-15], [10:0-2-8,0-3-0], [12:Edge,0-3-8]

LOADING	VI /	SPACING- 2-0		CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL 1.1	15	TC	0.77	Vert(LL)	-0.08 13-16	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL 1.1	15	BC	0.64	Vert(CT)	-0.16 13-16	>895	180		
BCLL	0.0	Rep Stress Incr YE	S	WB	0.51	Horz(CT)	0.07 9	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	1	Matri	x-AS					Weight: 58 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD

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

SLIDER Left 2x4 SPF No.2 -t 2-6-0

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

Max Horz 2=246(LC 12)

Max Uplift 2=-80(LC 12), 9=-175(LC 12) Max Grav 2=741(LC 1), 9=675(LC 1)

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

TOP CHORD 2-4=-642/81, 4-5=-1003/249

BOT CHORD 2-13=-225/667, 12-13=-136/443, 10-11=-443/136 **WEBS** 4-11=-675/327, 5-11=-355/1030, 6-9=-527/224

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8. Interior(1) 2-1-8 to 11-6-0, Exterior(2E) 11-6-0 to 12-3-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 2 except (jt=lb)
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021



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

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



Job Truss Truss Type Qty Ply summit/woodside ridge #27/MO 145358388 2704151 D08 JACK-CLOSED 5 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:09 2021 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-ind?DTw_kkNta3cKiYGX?8PGfDVop?kvcOkuhRzXQH0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

Scale = 1:38.0

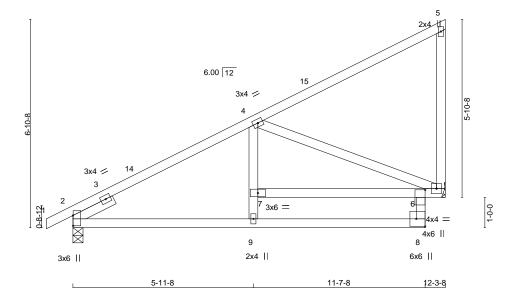


Plate Offsets (X,Y)-- [2:0-4-1,0-0-1], [6:0-0-8,0-4-8], [8:Edge,0-3-8]

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 0.55	Vert(LL) -0.06 6-7 >999 240	MT20 197/144
TCDL 20.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.11 9-12 >999 180	
BCLL 0.0	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.08 6 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 57 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 2=0-4-0, 6=Mechanical

Max Horz 2=225(LC 12)

Max Uplift 2=-57(LC 12), 6=-88(LC 12) Max Grav 2=781(LC 1), 6=744(LC 1)

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

TOP CHORD 2-4=-846/8

BOT CHORD 2-9=-201/730, 8-9=-78/445, 6-8=-40/350, 6-7=-175/403

WEBS 4-7=0/289, 4-6=-910/271

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-1-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358389 2704151 D09 JACK-CLOSED 3 Job Reference (optional) Builders FirstSource (Valley Center), 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:10 2021 Page 1

Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-A_BNQpxcU1VkCDBWFFnmYMyTGcuJYU12r2UREtzXQH?

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

0-10-8 12-3-8 6-1-12 6-1-12

Scale = 1:37.7

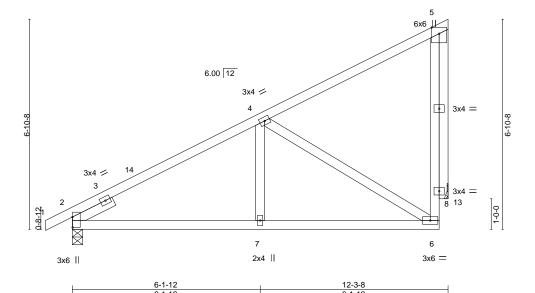


Plate Offsets (X,Y)--[2:0-4-1,0-0-1] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/def L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.43 Vert(LL) -0.03 6-7 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 BC 0.31 Vert(CT) -0.05 7-11 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.56 Horz(CT) 0.02 13 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 57 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 2=0-4-0, 13=Mechanical

Max Horz 2=209(LC 12)

Max Uplift 2=-74(LC 12), 13=-117(LC 12) Max Grav 2=754(LC 1), 13=629(LC 1)

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

TOP CHORD 2-4=-803/48, 6-8=-88/435, 5-8=-88/435

BOT CHORD 2-7=-207/683, 6-7=-207/683

WEBS 4-7=0/253, 4-6=-729/215, 5-13=-631/164

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=117.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358390 2704151 D10 HALF HIP Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:11 2021 Page 1

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-eAlle9yEFLdbqNmipzI?4ZVe?0EWHxQC4iD?mJzXQH_ 12-1-14 -0-10-8 0-10-8 6-2-11 5-11-3

Scale = 1:37.5

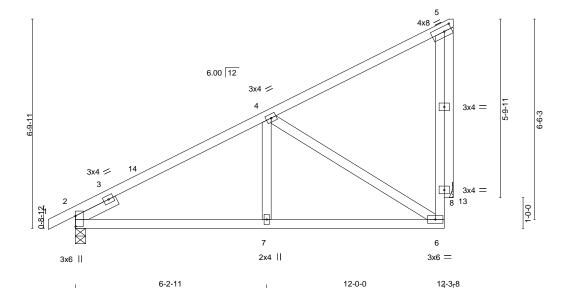


Plate Offsets (X,Y)--[2:0-4-1,0-0-1], [5:0-2-15,0-2-0] SPACING-L/d **PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.43 Vert(LL) 0.03 7-11 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 ВС 0.31 Vert(CT) -0.06 7-11 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.55 Horz(CT) 0.02 n/a 13 n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 57 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 2=0-4-0, 13=Mechanical

Max Horz 2=240(LC 12)

Max Uplift 2=-79(LC 12), 13=-183(LC 12) Max Grav 2=754(LC 1), 13=629(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-798/51, 6-8=-100/440, 5-8=-100/440

BOT CHORD

2-7=-205/677. 6-7=-205/677 **WEBS** 4-7=0/254, 4-6=-728/230, 5-13=-631/184

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=183.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

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Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358391 2704151 D11 HALF HIP Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:12 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-6MJ7rVys0elSRXKvNgpEdn1qPQal0R_LIMzYHmzXQGz -0-10-8 0-10-8 10-7-14 12-3-8 5-5-11 5-2-3 1-7-10 Scale = 1:35.5 6x6 = 6x6 || 6 6.00 12 2x4 || 3x4 =3x4 🖊 3 3x4 =14 1-0-0 8 3x4 =3x8 = 3x6 ||

> 10-7-14 12-3-8

Plate Off	fsets (X,Y)	[2:0-4-1,0-0-5]											
LOADIN	C (nof)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
	· /						in	(/					
TCLL	25.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.04	7-8	>999	240	MT20	197/144	
TCDL	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.10	7-8	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	-0.01	14	n/a	n/a			
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-AS	` '					Weight: 61 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

2x4 SPF No.2 TOP CHORD

BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 2=0-4-0, 14=Mechanical

Max Horz 2=212(LC 12)

Max Uplift 2=-91(LC 12), 14=-150(LC 12) Max Grav 2=754(LC 1), 14=629(LC 1)

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

TOP CHORD 2-4=-877/82, 4-5=-910/215, 7-9=-253/649, 6-9=-253/649 **BOT CHORD** 2-8=-262/719

WEBS 4-8=-472/240, 5-8=-258/804, 5-7=-599/282, 6-14=-631/209

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-7-14, Exterior(2E) 10-7-14 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 2 except (jt=lb)
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

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Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358392 2704151 D12 HALF HIP Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:13 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-aZtW3rzUnytJ3hv5xOKT9_a0CqtJlwOUX0i5pCzXQGy -0-10-8 0-10-8 9-1-14

4-5-3

3-1-10

L/d

240

180

n/a

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

Rigid ceiling directly applied.

I/def

>999

>664

n/a

PLATES

Weight: 59 lb

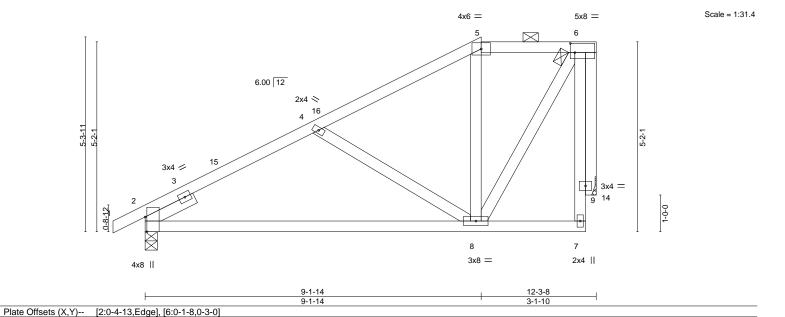
MT20

Structural wood sheathing directly applied, except end verticals, and

GRIP

197/144

FT = 20%



Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

8-12

8-12

14

-0.11

-0.22

0.02

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

20.0

0.0

10.0

WEBS 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 2=0-4-0, 14=Mechanical

Max Horz 2=181(LC 12)

Max Uplift 2=-99(LC 12), 14=-115(LC 12) Max Grav 2=754(LC 1), 14=629(LC 25)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

1.15

1.15

YES

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

TOP CHORD 2-4=-828/154, 4-5=-494/68, 5-6=-364/109 **BOT CHORD** 2-8=-301/732

WEBS 4-8=-440/208, 6-8=-184/611, 6-14=-632/186

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-1-14, Exterior(2E) 9-1-14 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

Matrix-AS

0.26

0.48

0.20

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4-8-11

- 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) 2 except (jt=lb)
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358393 2704151 D13 HALF HIP Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:13 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-aZtW3rzUnytJ3hv5xOKT9_a01qv9lxMUX0i5pCzXQGy -0-10-8 0-10-8 4-0-6 3-7-8 4-7-10 Scale = 1:27.8 4x6 = 5x8 = 63x4 = 6.00 12 2x4 💸 16 4-6-11 1-5-1 3x4 // 1-0-0 8 3x8 = 2x4 || 3x8 || 7-7-14 4-7-10 Plate Offsets (X,Y)--[2:0-4-13,Edge], [6:0-1-8,0-3-0] SPACING-L/d LOADING (psf) CSI. DEFL. in (loc) I/def **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.27 Vert(LL) -0.05 8-12 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.36 Vert(CT) -0.10 8-12 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.02 n/a 14 n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 55 lb Matrix-AS LUMBER-**BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals, and BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 5-6. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied. 2x4 SPF No.2 **OTHERS**

SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 2=0-4-0, 14=Mechanical

Max Horz 2=151(LC 12) Max Uplift 2=-102(LC 12), 14=-97(LC 9)

Max Grav 2=754(LC 1), 14=629(LC 1)

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

2-4=-893/187, 4-5=-627/124, 5-6=-508/150 **BOT CHORD** 2-8=-308/753

6-8=-179/581, 4-8=-301/171, 6-14=-635/182 **WEBS**

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-7-14, Exterior(2E) 7-7-14 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) 14 except (jt=lb)
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358394 2704151 D14 HALF HIP Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:14 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-3lQuGB_7YG?AhrUHU5riiC77EEEKUleemgSfMezXQGx -0-10-8 0-10-8 7-1-14 4-10-2 Scale = 1:26.3 6x8 = 3x4 II >13 14 6.00 12 3x4 / 2x4 || 3x8 || 3x4 =12-0-0 Plate Offsets (X,Y)--[2:0-4-13,Edge], [4:0-4-13,Edge] SPACING-L/d **PLATES** GRIP LOADING (psf) CSI. DEFL. in (loc) I/def TCLL 25.0 Plate Grip DOL 1.15 TC 0.56 Vert(LL) 0.06 7-10 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.43 Vert(CT) -0.13 7-10 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.46 Horz(CT) 0.03 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 47 lb **BRACING-**TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.

BOT CHORD

Rigid ceiling directly applied.

LUMBER-

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 **SLIDER** Left 2x4 SPF No.2 -t 2-6-0

REACTIONS. (size) 2=0-4-0, 6=0-4-0 Max Horz 2=164(LC 11)

Max Uplift 2=-112(LC 12), 6=-113(LC 9)

Max Grav 2=734(LC 1), 6=649(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-661/177

BOT CHORD 2-7=-257/563 6-7=-258/556 **WEBS** 4-7=0/279, 4-6=-702/276

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-1-14, Exterior(2R) 7-1-14 to 11-4-13, Interior(1) 11-4-13 to 11-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=112, 6=113.
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358395 2704151 D15 Roof Special Girder Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:17 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-TK60uC0?rBNIYIDsAEPPKqlbRR7lhaZ4SdgJyzzXQGu

Structural wood sheathing directly applied or 4-6-3 oc purlins, except

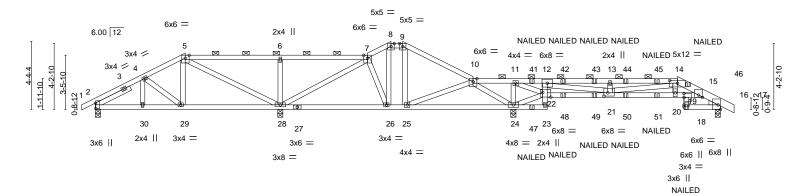
2-0-0 oc purlins (3-1-11 max.): 5-7, 8-9, 10-14.

8-2-0 oc bracing: 19-20

Rigid ceiling directly applied or 6-0-0 oc bracing. Except:

19-8-0

Scale = 1:73.7



11-10-0 3-0-8 17-5-0 2-9-8 18-11-0 Plate Offsets (X,Y)--[2:0-4-1,0-0-5], [14:0-6-0,0-2-2], [16:Edge,0-1-13], [19:0-3-0,0-0-0], [21:0-3-0,0-2-8], [22:0-6-4,0-3-8] SPACING-LOADING (psf) CSI (loc) I/defl L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.76 Vert(LL) -0.13 20-21 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.93 Vert(CT) -0.25 20-21 >630 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.77 Horz(CT) 0.06 n/a 16 n/a Code IRC2018/TPI2014 **BCDL** 10.0 Weight: 169 lb FT = 20%Matrix-MS

BOT CHORD

BRACING-LUMBER-TOP CHORD

TOP CHORD 2x4 SPF No.2 *Except* 14-17: 2x6 SPF No.2

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

WEDGE

Right: 2x4 SPF No.2

SLIDER Left 2x4 SPF No.2 -t 2-6-0

REACTIONS. All bearings 0-4-0.

Max Horz 2=-74(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 2=-114(LC 8), 16=-247(LC 9),

28=-359(LC 36), 24=-496(LC 9)

Max Grav All reactions 250 lb or less at joint(s) except 2=633(LC 1), 16=1006(LC 22), 28=1506(LC 25), 24=2401(LC 1)

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

TOP CHORD 2-4=-661/138, 4-5=-550/120, 5-6=-45/267, 6-7=-45/267, 7-8=-513/252, 8-9=-426/242,

9-10=-556/236, 10-11=-411/1920, 11-12=-123/752, 12-13=-2574/647, 13-14=-2574/647, 14-15=-2545/624, 15-16=-789/224

2-30=-133/591, 29-30=-133/591, 28-29=-69/453, 26-28=-135/451, 25-26=-117/430,

BOT CHORD 24-25=-752/398, 12-22=-996/250, 21-22=-509/138, 20-21=-544/2447, 19-20=-521/2336,

15-19=-441/1947. 16-18=-90/389

5-29=-7/257, 9-25=-285/99, 10-25=-205/973, 7-28=-778/277, 6-28=-610/197,

5-28=-794/181, 11-24=-681/212, 22-24=-1887/486, 11-22=-339/1274, 10-24=-1464/299,

14-20=-157/697, 13-21=-275/56, 12-21=-721/3133

NOTES-

WFBS

- 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=4.2psf; 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 114 lb uplift at joint 2, 247 lb uplift at joint 16, 359 lb uplift at joint 28 and 496 lb uplift at joint 24.
- 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.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Continued on page 2
LOAD CASE(S) Standard

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

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



March 26,2021



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #27/MO	٦
					145358395	.
2704151	D15	Roof Special Girder	1	1		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:17 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-TK60uC0?rBNIYIDsAEPPKqlbRR7lhaZ4SdgJyzzXQGu

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-90, 5-7=-90, 7-8=-90, 8-9=-90, 9-10=-90, 10-14=-90, 14-17=-90, 23-31=-20, 19-22=-20, 18-38=-20

Concentrated Loads (lb)

Vert: 19=-152(F) 41=-57(F) 42=41(F) 43=41(F) 45=41(F) 45=41(F) 46=-32(F) 47=-41(F) 48=-195(F) 49=-195(F) 50=-195(F) 51=-195(F)

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358396 2704151 D16 Roof Special | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:18 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-xWgP6Y1dcUVb9So3jxwes2Hrlrc2Q5oEhHQsVPzXQGt

15-11-0

4-1-0

17-5-0

1-6-0

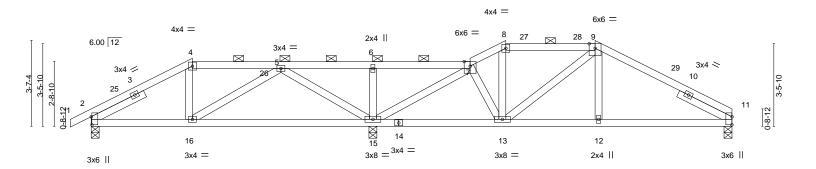
21-2-0

3-9-0

Scale: 1/4"=1

26-11-0

5-9-0



	L	4-3-0	1	1-10-0	15-11-0	17-5-0	21-2-0	26-11-0	
	1	4-3-0		7-7-0	4-1-0	1-6-0	3-9-0	5-9-0	'
Plate Offse	ets (X,Y)	[2:0-4-1,0-0-5], [11:0-4-1	1,0-0-1]						
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 0.40	Vert(LL)	-0.07 15-16	>999 240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.14 15-16	>990 180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.02 11	n/a n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matrix-AS				Weight: 105 lb	FT = 20%
TCDL BCLL	20.0	Lumber DOL Rep Stress Incr	1.15 YES	BC 0.38 WB 0.51	Vert(CT)	-0.14 15-16	>990 180		

LUMBER-BRACING-

3-8-10

2-1-6

1-9-0

TOP CHORD 2x4 SPF No.2 Structural wood sheathing directly applied, except TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-7, 8-9. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied.

SLIDER Left 2x4 SPF No.2 -t 2-6-0, Right 2x4 SPF No.2 -t 2-6-0

REACTIONS. (size) 11=0-4-0, 2=0-4-0, 15=0-4-0

Max Horz 2=65(LC 12)

Max Uplift 11=-108(LC 13), 2=-125(LC 12), 15=-244(LC 12) Max Grav 11=727(LC 1), 2=602(LC 1), 15=1710(LC 1)

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

2-4=-597/139, 4-5=-545/156, 5-6=-36/557, 6-7=-35/559, 7-8=-720/203, 8-9=-614/193, TOP CHORD

9-11=-903/211

BOT CHORD $2-16 = -119/541,\ 15-16 = -116/281,\ 13-15 = -111/553,\ 12-13 = -121/787,\ 11-12 = -120/792$ **WEBS** 9-13=-256/55, 6-15=-394/125, 7-15=-1263/224, 5-16=-19/331, 5-15=-966/205

NOTES-

-0-10-8 0-10-8

4-3-0

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-3-0, Exterior(2R) 4-3-0 to 7-3-0, Interior(1) 7-3-0 to 17-5-0, Exterior(2R) 17-5-0 to 20-5-0, Interior(1) 20-5-0 to 21-2-0, Exterior(2R) 21-2-0 to 24-2-0, Interior(1) 24-2-0 to 26-11-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 11, 125 lb uplift at joint 2 and 244 lb uplift at joint 15.
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.





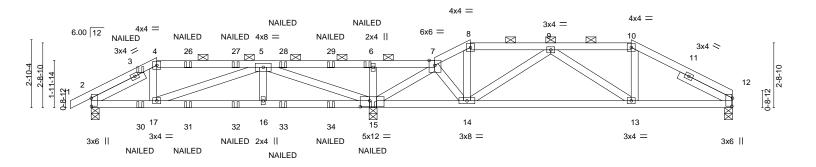
March 26,2021

Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358397 2704151 D17 Roof Special Girder | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:20 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-tvo9XE3t86mJPmyRrMy6yTN7jeHluv_W8bvzZlzXQGr

15-11-0 19-3-8 22-8-0 26-11-0 4-5-10 4-7-6 2-7-0 1-6-0 3-4-8 3-4-8 4-3-0

Scale: 1/4"=1



	2-9-0	7-2-10		11-10-	0	14-5-0	15-11-0	19-	3-8	22-8-0	26-11	-0
	2-9-0	4-5-10	1	4-7-6	'	2-7-0	1-6-0	3-4	1-8	3-4-8	4-3-	0 '
Plate Offsets (X,Y)	[2:0-4-1,0-0-	1], [7:0-2-13,	Edge], [12:0-	4-1,0-0-5], [15	:0-4-12,0-3	-0]						
LOADING (psf)	SPAC	CING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate	Grip DOL	1.15	TC	0.69	Vert(LL)	-0.06	13-14	>999	240	MT20	197/144
TCDL 20.0	Lumb	er DOL	1.15	BC	0.43	Vert(CT	-0.14	13-14	>999	180		
BCLL 0.0	Rep S	Stress Incr	NO	WB	0.92	Horz(CT	0.03	12	n/a	n/a		
BCDL 10.0	Code	IRC2018/TF	12014	Matri	c-MS	,					Weight: 105 lb	FT = 20%

LUMBER-BRACING-

TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 5-4-10 oc purlins,

BOT CHORD 2x4 SPF No.2

WEBS 2x4 SPF No.2 2-0-0 oc purlins (5-4-8 max.): 4-7, 8-10. Left 2x4 SPF No.2 -t 2-6-0, Right 2x4 SPF No.2 -t 2-6-0 **SLIDER BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 12=0-4-0, 2=0-4-0, 15=0-4-0

Max Horz 2=52(LC 8)

Max Uplift 12=-105(LC 30), 2=-225(LC 8), 15=-407(LC 4) Max Grav 12=696(LC 1), 2=873(LC 21), 15=2153(LC 1)

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

2-4=-1097/306, 4-5=-970/291, 5-6=-150/1041, 6-7=-149/1042, 7-8=-531/204, TOP CHORD 8-9=-456/187 9-10=-825/162 10-12=-920/168

BOT CHORD 2-17=-276/985, 16-17=-313/1028, 15-16=-313/1028, 14-15=-203/273, 13-14=-216/883, 12-13=-112/832

4-17=-24/250, 5-16=0/291, 5-15=-2198/485, 6-15=-493/166, 7-14=-81/573,

9-14=-578/146, 7-15=-1335/152

WEBS

- 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=4.2psf; 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 arip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 12, 225 lb uplift at joint 2 and 407 lb uplift at joint 15.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 10) 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

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-90, 4-7=-90, 7-8=-90, 8-10=-90, 10-12=-90, 18-22=-20



March 26,2021

Continued on page 2



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	summit/woodside ridge #27/MO	
					145358397	7
2704151	D17	Roof Special Girder	1	1		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:20 2021 Page 2 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-tvo9XE3t86mJPmyRrMy6yTN7jeHluv_W8bvzZlzXQGr

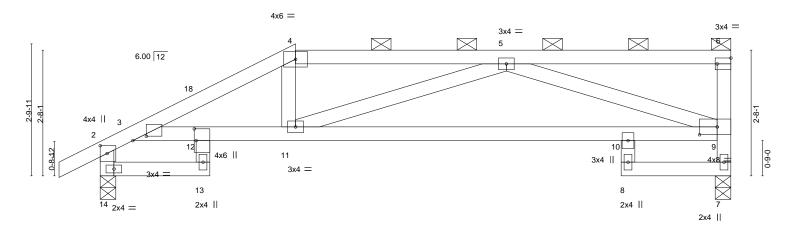
LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 15=-45(F) 6=-61(F) 3=-32(F) 26=-57(F) 27=-57(F) 28=-57(F) 29=-57(F) 30=-152(F) 31=-41(F) 32=-41(F) 33=-41(F) 34=-41(F)

Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358398 2704151 E02 HALF HIP | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:21 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-L5LXka3WvPuA1vWdP3ULUgvJS2ZfdStgNFeW5kzXQGq 0-10-8 2-4-0 1-9-14 4-5-13 2-5-5 2-4-0

Scale = 1:24.5



2-4-0	4-1-14			11-1-0			13-5-	
2-4-0	1-9-14	1		6-11-2			2-4-0	0 '
[2:0-2-0,0-1-12], [3:0-3	-7,0-1-2], [6:Edg	e,0-1-8], [9:0-4-8,0-2-0], [12:0-3-0,0-0-8]					
SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
Plate Grip DOL	1.15	TC 0.63	Vert(LL)	-0.12 10-11	>999	240	MT20	197/144
Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.26 10-11	>597	180		
Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.07 7	n/a	n/a		
Code IRC2018	/TPI2014	Matrix-AS					Weight: 53 lb	FT = 20%
	2-4-0 [2:0-2-0,0-1-12], [3:0-3 SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-4-0 1-9-14 [2:0-2-0,0-1-12], [3:0-3-7,0-1-2], [6:Edc SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	2-4-0 1-9-14 [2:0-2-0,0-1-12], [3:0-3-7,0-1-2], [6:Edge,0-1-8], [9:0-4-8,0-2-0], [7:0-4-8] SPACING- 2-0-0 CSI. Plate Grip DOL 1.15 TC 0.63 Lumber DOL 1.15 BC 0.58 Rep Stress Incr YES WB 0.56	2-4-0 1-9-14 [2:0-2-0,0-1-12], [3:0-3-7,0-1-2], [6:Edge,0-1-8], [9:0-4-8,0-2-0], [12:0-3-0,0-0-8] SPACING- 2-0-0 CSI. DEFL. Plate Grip DOL 1.15 TC 0.63 Vert(LL) Lumber DOL 1.15 BC 0.58 Vert(CT) Rep Stress Incr YES WB 0.56 Horz(CT)	2-4-0 1-9-14 6-11-2 [2:0-2-0,0-1-12], [3:0-3-7,0-1-2], [6:Edge,0-1-8], [9:0-4-8,0-2-0], [12:0-3-0,0-0-8] SPACING- 2-0-0 CSI. DEFL. in (loc) Plate Grip DOL 1.15 TC 0.63 Vert(LL) -0.12 10-11 Lumber DOL 1.15 BC 0.58 Vert(CT) -0.26 10-11 Rep Stress Incr YES WB 0.56 Horz(CT) 0.07 7	2-4-0 1-9-14 6-11-2 [2:0-2-0,0-1-12], [3:0-3-7,0-1-2], [6:Edge,0-1-8], [9:0-4-8,0-2-0], [12:0-3-0,0-0-8] SPACING- 2-0-0 CSI. DEFL. in (loc) I/defl Plate Grip DOL 1.15 TC 0.63 Vert(LL) -0.12 10-11 >999 Lumber DOL 1.15 BC 0.58 Vert(CT) -0.26 10-11 >597 Rep Stress Incr YES WB 0.56 Horz(CT) 0.07 7 n/a	2-4-0	2-4-0 1-9-14 6-11-2 2-4-1 [2:0-2-0,0-1-12], [3:0-3-7,0-1-2], [6:Edge,0-1-8], [9:0-4-8,0-2-0], [12:0-3-0,0-0-8] SPACING- 2-0-0 CSI. DEFL. in (loc) /defl L/d PLATES Plate Grip DOL 1.15 TC 0.63 Vert(LL) -0.12 10-11 >999 240 MT20 Lumber DOL 1.15 BC 0.58 Vert(CT) -0.26 10-11 >597 180 Rep Stress Incr YES WB 0.56 Horz(CT) 0.07 7 n/a n/a

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied, except end verticals, and **BOT CHORD** 2x4 SPF No.2 2-0-0 oc purlins (4-10-12 max.): 4-6.

WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied.

REACTIONS. (size) 7=0-4-0, 14=0-4-0

Max Horz 14=106(LC 9)

Max Uplift 7=-133(LC 9), 14=-98(LC 12) Max Grav 7=718(LC 1), 14=817(LC 25)

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

2-3=-550/131, 3-4=-1477/292, 4-5=-1288/301, 7-9=-676/155, 2-14=-805/239 TOP CHORD

BOT CHORD 13-14=-166/259, 3-12=-187/1051, 11-12=-353/1310, 10-11=-348/1362, 9-10=-296/1428

WFBS 4-11=0/350, 5-9=-1264/398

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-1-14, Exterior(2R) 4-1-14 to 8-7-11, Interior(1) 8-7-11 to 13-3-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 133 lb uplift at joint 7 and 98 lb uplift at
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



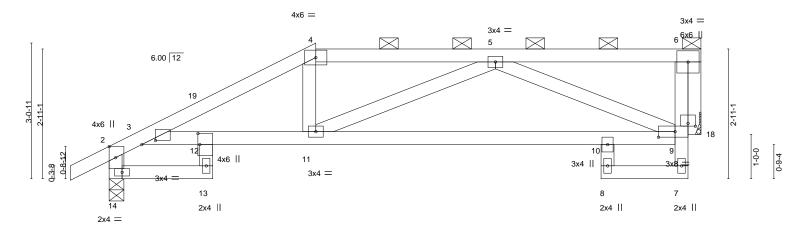
March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358399 2704151 E03 HALF HIP Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:22 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-qHvvyw48gj01e35qyn?a1uSWNSuWMxZpcvO4eBzXQGp -0-10-8 0-10-8 8-8-7 2-4-0 2-3-14 4-0-9 2-4-9 2-3-0

Scale = 1:26.0



	1	2-4-0	4-7-14		11-1	-0			13-4-0	1
	Г	2-4-0	2-3-14	ı	6-5-	2			2-3-0	
Plate Off	sets (X,Y)	[2:0-3-0,Edge], [3:0-3-1	1,0-1-2], [9:0-2-	0,0-0-12], [9:0-4-8,0-1-8]	[12:0-3-0,0-0-8]					
LOADIN	G (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 10-11	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC 0.67	Vert(CT) -0	.17 10-11	>929	180		
BCLL	0.0	Rep Stress Incr	YES	WB 0.40	Horz(CT) 0	.05 18	n/a	n/a		
BCDL	10.0	Code IRC2018/7	ΓPI2014	Matrix-AS					Weight: 53 lb	FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD Structural wood sheathing directly applied, except end verticals, and

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (5-2-4 max.): 4-6. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied. **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 14=0-4-0, 18=Mechanical

Max Horz 14=87(LC 9)

Max Uplift 14=-98(LC 12), 18=-121(LC 9) Max Grav 14=817(LC 1), 18=678(LC 1)

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

 $2 - 3 = -574/111,\ 3 - 4 = -1381/286,\ 4 - 5 = -1201/300,\ 5 - 6 = -254/1,\ 6 - 9 = -95/495,\ 2 - 14 = -802/234$ TOP CHORD **BOT CHORD** 13-14=-163/286, 3-12=-157/930, 11-12=-317/1216, 10-11=-288/1183, 9-10=-235/1206

WEBS 4-11=0/296, 5-9=-1038/339, 6-18=-697/146

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-7-14, Exterior(2R) 4-7-14 to 8-8-7, Interior(1) 8-8-7 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 98 lb uplift at joint 14 and 121 lb uplift at
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021



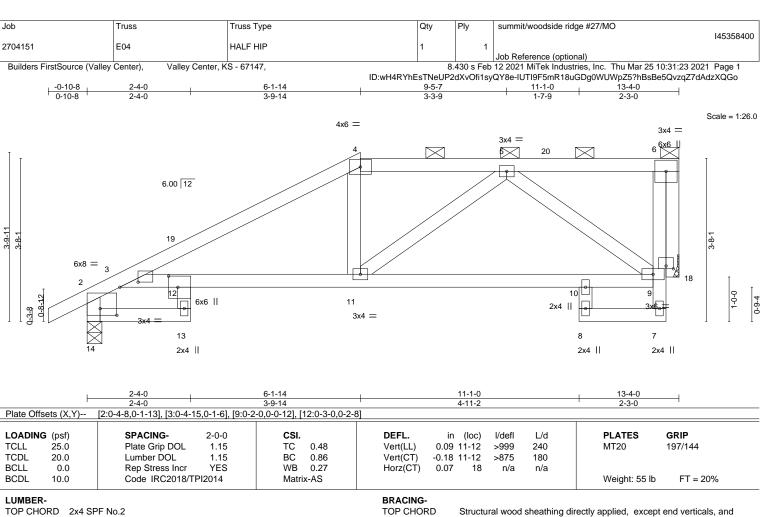
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 chorembers only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

AMSI/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



2-0-0 oc purlins (5-7-7 max.): 4-6. **BOT CHORD** Rigid ceiling directly applied.

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

2x4 SPF No.2

BOT CHORD

REACTIONS.

(size) 14=0-4-0, 18=Mechanical

Max Horz 14=113(LC 12)

Max Uplift 14=-107(LC 12), 18=-116(LC 9) Max Grav 14=817(LC 1), 18=678(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-613/107, 3-4=-1161/246, 4-5=-991/279, 6-9=-116/523, 2-14=-794/222 TOP CHORD **BOT CHORD** 13-14=-194/335, 3-12=-100/658, 11-12=-294/992, 10-11=-206/760, 9-10=-172/748

WEBS 5-9=-785/251, 5-11=-114/288, 6-18=-687/158

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 6-1-14, Exterior(2R) 6-1-14 to 10-4-13, Interior(1) 10-4-13 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 14 and 116 lb uplift
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

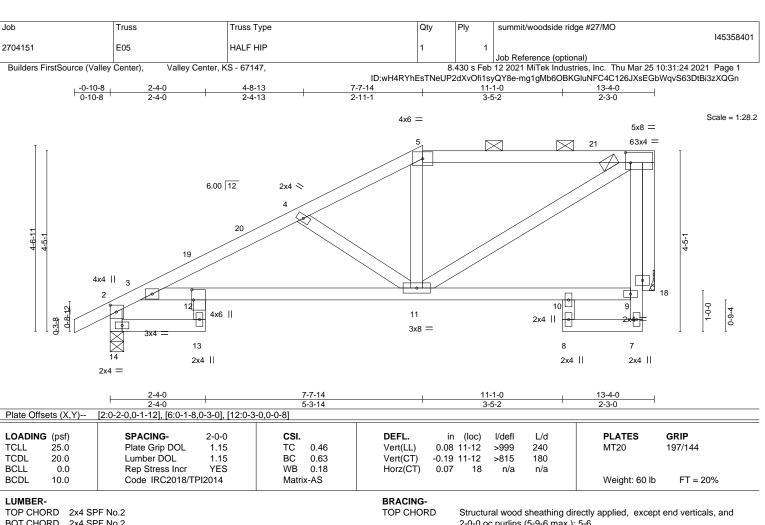


March 26,2021









LUMBER-

2x4 SPF No.2 **BOT CHORD**

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

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

REACTIONS. (size) 14=0-4-0, 18=Mechanical

Max Horz 14=143(LC 12)

Max Uplift 14=-111(LC 12), 18=-109(LC 9) Max Grav 14=817(LC 25), 18=678(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-528/66, 3-4=-1219/292, 4-5=-900/206, 5-6=-756/214, 2-14=-808/214 TOP CHORD

BOT CHORD 3-12=-241/854. 11-12=-399/1087

WEBS 6-11=-220/734, 4-11=-400/202, 6-18=-684/173

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-7-14, Exterior(2R) 7-7-14 to 11-10-13, Interior(1) 11-10-13 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 14 and 109 lb uplift
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

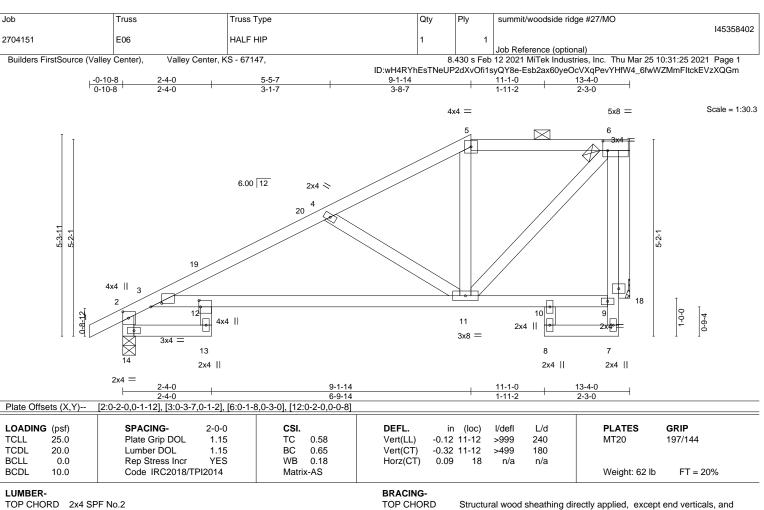


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2x4 SPF No.2 **BOT CHORD**

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2 **BOT CHORD**

2-0-0 oc purlins (6-0-0 max.): 5-6. Rigid ceiling directly applied.

REACTIONS. (size) 14=0-4-0, 18=Mechanical

Max Horz 14=174(LC 12)

Max Uplift 14=-110(LC 12), 18=-107(LC 12) Max Grav 14=817(LC 1), 18=678(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-520/51, 3-4=-1135/248, 4-5=-708/143, 5-6=-556/163, 2-14=-809/199 TOP CHORD

BOT CHORD 3-12=-206/785. 11-12=-380/1008

WEBS 6-11=-207/695, 4-11=-536/236, 6-18=-681/181

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 9-1-14, Exterior(2E) 9-1-14 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 110 lb uplift at joint 14 and 107 lb uplift
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358403 2704151 E07 Half Hip Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:26 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-i39QnH7ejyWT7hPbBc3WBkcDl3LlllcPWXMHnyzXQGl -0-10-8 0-10-8 5-5-11 5-5-11 10-7-14 13-4-0 5-2-3 2-8-2 Scale = 1:35.5 6x6 = 6x6 || 5 6 6.00 12 2x4 \\ 15 • 3x4 = 6-0-11 5-11-1 3x4 / 3 3x4 = 14 1-0-0 8 3x4 = 3x8 = 3x6 || 6-8-0 13-4-0 Plate Offsets (X,Y)--[2:0-4-1,0-0-5] SPACING-**PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.33 Vert(LL) -0.04 7-8 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.36 Vert(CT) -0.08 7-8 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.40 Horz(CT) 0.01 n/a 14 n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 65 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SPF No.2 2x4 SPF No.2 **OTHERS**

SLIDER Left 2x4 SPF No.2 -t 2-6-0

REACTIONS. (size) 2=0-4-0, 14=Mechanical

Max Horz 2=212(LC 12)

Max Uplift 2=-102(LC 12), 14=-142(LC 12) Max Grav 2=806(LC 1), 14=691(LC 1)

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

TOP CHORD 2-4=-814/113, 4-5=-827/156, 7-9=-202/633, 6-9=-202/633 **BOT CHORD** 2-8=-282/800, 7-8=-114/272

WEBS 4-8=-425/203, 5-8=-165/646, 5-7=-617/241, 6-14=-692/199

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 10-7-14, Exterior(2E) 10-7-14 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 2 and 142 lb uplift at
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358404 2704151 E08 Half Hip Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:27 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-AFjo?d8GUFeKlq_nlKalkx9PITf?1D_YlB5rJOzXQGk

Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

12-1-14 0-10-8 0-10-8 9-5-8 13-4-0 3-4-0 4-5-14 1-7-10 2-8-6 1-2-2

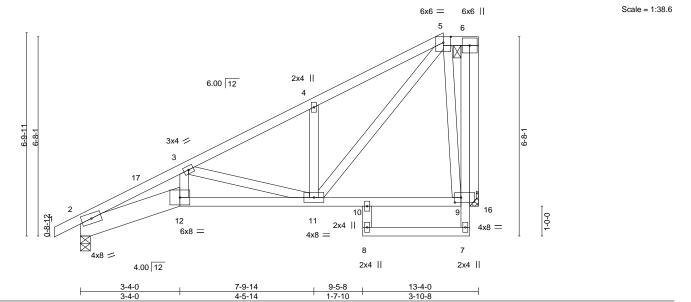


Plate Offsets (X,Y)--[9:0-2-8,0-2-0] SPACING-LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.28 Vert(LL) -0.05 11-12 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.45 Vert(CT) -0.11 11-12 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.32 Horz(CT) 0.04 n/a 16 n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 81 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-12: 2x8 SP 2400F 2.0E

WEBS 2x4 SPF No.2

OTHERS 2x4 SPF No.2

REACTIONS. (size) 2=0-4-0, 16=Mechanical

Max Horz 2=242(LC 12)

Max Uplift 2=-93(LC 12), 16=-177(LC 12) Max Grav 2=806(LC 25), 16=691(LC 25)

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

TOP CHORD 2-3=-1870/338, 3-4=-917/108, 4-5=-935/222, 6-9=-243/666

BOT CHORD 2-12=-537/1654, 11-12=-507/1571

3-12=-95/377, 3-11=-846/285, 4-11=-437/207, 5-11=-301/999, 5-9=-630/266, **WEBS**

6-16=-692/220

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-1-14, Exterior(2E) 12-1-14 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 2 and 177 lb uplift at ioint 16.
- 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.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358405 2704151 E09 JACK-CLOSED 3 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:28 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-eRHBCz9vFZmBM_Z_J16_G9iVBtydmfBi_rrOrgzXQGj 0-10-8 3-4-0 6-1-8 3-10-8 Scale = 1:39.1 6x6 6.00 12 4x6 / 5 3x6 / 2x4 || 15 10 9 1-0-0 2x4 || 4x12 =6x8 = 8 7 4x8 = 4.00 12 2x4 || 3x4 || 3-4-0 Plate Offsets (X,Y)--[11:0-5-8,0-3-0] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.59 Vert(LL) -0.22 10-11 >720 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.62 Vert(CT) -0.51 10-11 >313 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.39 Horz(CT) 0.07 n/a 15 n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 74 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-11: 2x8 SP 2400F 2.0E 2x4 SPF No.2

WEBS **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 2=0-4-0, 15=Mechanical

Max Horz 2=223(LC 12)

Max Uplift 2=-76(LC 12), 15=-121(LC 12) Max Grav 2=806(LC 1), 15=691(LC 1)

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

TOP CHORD 2-3=-2039/260, 3-5=-2146/385, 6-9=-134/625 **BOT CHORD** 2-11=-460/1821, 10-11=-167/506, 9-10=-169/487

3-11=-393/181, 5-9=-693/224, 5-11=-366/1596, 6-15=-692/167 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 2 and 121 lb uplift at
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

March 26,2021







Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358406 2704151 E10 JACK-CLOSED | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:28 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-eRHBCz9vFZmBM_Z_J16_G9iXhtxnmZqi_rrOrqzXQGj 0-10-8 3-4-0 Scale = 1:39.1 6x6 6.00 12 3x4 / 2x4 || 15 10 9 4x6 || 4x12 =6x8 = 8 7 4x8 = 4.00 12 3x4 || 4x4 || 13-4-0 3-4-0 Plate Offsets (X,Y)--[7:Edge,0-3-8], [10:0-3-0,0-0-0], [11:0-5-4,0-3-0] SPACING-(loc) **PLATES** LOADING (psf) DEFL. in I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.50 Vert(LL) -0.11 8 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.67 Vert(CT) -0.2610 >599 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.80 Horz(CT) 0.05 15 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 76 lb Matrix-AS BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2-11: 2x8 SP 2400F 2.0E WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 2=0-4-0, 15=Mechanical

Max Horz 2=223(LC 12)

Max Uplift 2=-76(LC 12), 15=-121(LC 12) Max Grav 2=806(LC 1), 15=691(LC 1)

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

TOP CHORD 2-3=-1924/224, 3-5=-1842/274, 6-9=-76/459 **BOT CHORD** 2-11=-421/1693, 10-11=-292/922, 9-10=-328/791 **WEBS** 5-11=-181/968, 5-9=-938/278, 6-15=-692/167

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 12-10-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 76 lb uplift at joint 2 and 121 lb uplift at
- 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358407 2704151 E11 JACK-CLOSED | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:29 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-6eqZQJ9X0tu2_88AtldDpMEhsHMmV0DrDVayOHzXQGi 0-10-8 0-10-8 6-8-0 6-8-0 Scale = 1:40.6 6.00 12 3x4 / 17 3x4 / 3x4 /

> 2x4 || 3x6 || 3x8 =

> > BRACING-

TOP CHORD

BOT CHORD

10

9

Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

Plate Off	Sets (X,Y)	[2:0-4-1,0-0-1]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.04 9-10 >999 240	MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.08 9-10 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.79	Horz(CT) 0.02 9 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-AS		Weight: 55 lb FT = 20%

LUMBER-

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

SLIDER Left 2x4 SPF No.2 -t 1-6-0

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

Max Horz 2=295(LC 11)

Max Uplift 2=-99(LC 12), 9=-108(LC 9) Max Grav 2=800(LC 1), 9=732(LC 1)

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

TOP CHORD 2-4=-872/172

BOT CHORD 2-10=-303/739, 9-10=-303/739 **WEBS** 4-10=0/283, 4-9=-828/253

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-4-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 2 and 108 lb uplift at joint 9.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 26,2021







Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358408 2704151 E12 HALF HIP | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:30 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-bqOxdfA9nA0ucljMQS8SMansEgirDSn?R9KVwjzXQGh 0-10-8 0-10-8 13-0-0 6-7-12 6-4-4

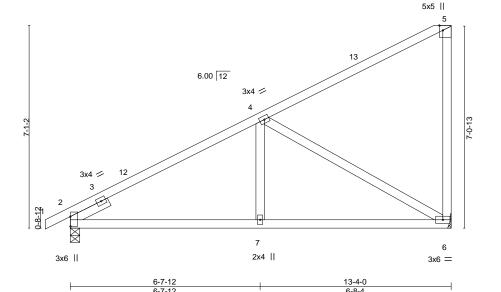


Plate Offsets (X,Y)--[2:0-4-1,0-0-1], [5:0-2-1,Edge] SPACING-**PLATES** LOADING (psf) CSI. DEFL. in (loc) I/defI L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.56 Vert(LL) -0.05 6-7 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 ВС 0.38 Vert(CT) -0.09 6-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.83 Horz(CT) 0.02 6 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 55 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 2=0-4-0, 6=Mechanical

Max Horz 2=295(LC 11)

Max Uplift 2=-116(LC 12), 6=-173(LC 12) Max Grav 2=807(LC 1), 6=723(LC 1)

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

TOP CHORD 2-4=-891/174

BOT CHORD 2-7=-297/757 6-7=-297/757 **WEBS** 4-7=0/287, 4-6=-847/258

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 116 lb uplift at joint 2 and 173 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied.

Scale = 1:40.3

March 26,2021







Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358409 2704151 E13 HALF HIP Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:31 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-30yJq?BnYU8lDSHY_AfhunK4n41sy?k8gp32S9zXQGg -0-10-8 0-10-8 13-4-0 5-10-12 5-7-4 1-10-0 Scale = 1:37.8 6x6 = 3x4 || 6 6.00 12 2x4 || 6-4-2 3x4 / 8 3x6 || 3x6 =13-4-0 1-10-0 Plate Offsets (X,Y)--[2:0-4-1,0-0-5] SPACING-L/d **PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.38 Vert(LL) -0.08 7-8 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.39 Vert(CT) -0.167-8 >972 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.47 Horz(CT) 0.01 n/a

BRACING-

TOP CHORD

BOT CHORD

n/a

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

Rigid ceiling directly applied.

LUMBER-

BCDL

TOP CHORD 2x4 SPF No.2

10.0

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

SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 2=0-4-0, 7=Mechanical

Max Horz 2=254(LC 11)

Max Uplift 2=-124(LC 12), 7=-135(LC 12) Max Grav 2=807(LC 1), 7=723(LC 1)

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

Code IRC2018/TPI2014

2-4=-967/178, 4-5=-1001/300 TOP CHORD

BOT CHORD 2-8=-327/792

WEBS 4-8=-512/247, 5-8=-263/892, 5-7=-676/355

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8. Interior(1) 2-1-8 to 11-6-0, Exterior(2E) 11-6-0 to 13-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-AS

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 2 and 135 lb uplift at
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



FT = 20%

Weight: 61 lb

Structural wood sheathing directly applied, except end verticals, and

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Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358410 2704151 E14 HALF HIP | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:31 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-30yJq?BnYU8lDSHY_AfhunK5l4_?y2n8gp32S9zXQGg -0-10-8 0-10-8 10-0-0 5-1-12 4-10-4 3-4-0 Scale = 1:33.7 4x6 = 4x4 = 6 6.00 12 2x4 ≈ 14 7 8 2x4 || 4x8 = 4x8 || 10-0-0 3-4-0 Plate Offsets (X,Y)--[2:0-4-13,Edge] SPACING-L/d **PLATES** LOADING (psf) CSI in (loc) I/def GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) -0.16 8-11 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.58 Vert(CT) -0.32 8-11 >491 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.27 Horz(CT) 0.02 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 59 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 -t 1-6-0

REACTIONS. (size) 7=Mechanical, 2=0-4-0

Max Horz 2=223(LC 11)

Max Uplift 7=-118(LC 9), 2=-126(LC 12) Max Grav 7=723(LC 1), 2=807(LC 1)

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

TOP CHORD 2-4=-908/212, 4-5=-526/144, 5-6=-384/161, 6-7=-723/245

BOT CHORD 2-8=-372/799

WEBS 4-8=-493/214, 6-8=-247/711

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8. Interior(1) 2-1-8 to 10-0-0, Exterior(2E) 10-0-0 to 13-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 7 and 126 lb uplift at
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Structural wood sheathing directly applied, except end verticals, and

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

Rigid ceiling directly applied.

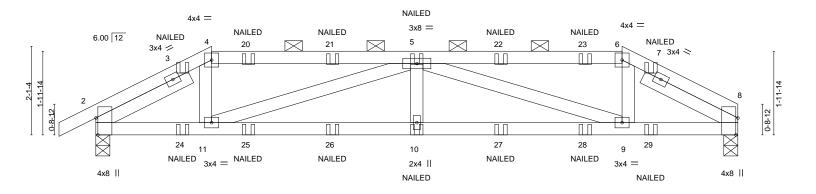
March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358411 2704151 G01 Hip Girder Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:33 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-?P44FgD145OTTIRx6bh9zCPM8ubgQqTR77Y9X2zXQGe 0-10-8 2-9-0 4-10-8 4-10-8 2-9-0

Scale = 1:27.4



	2-9-0					-6-0		15-3-0		
	2-9-0	1	4-10-8	<u>'</u>	4-1	10-8		2-9-	-0 '	
Plate Offsets (X,	Y) [2:0-4-13,Edge], [8:0-4	-13,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl I	_/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.58	Vert(LL)	-0.09 10 :	>999 2	40	MT20	197/144	
TCDL 20.0	Lumber DOL	1.15	BC 0.95	Vert(CT	-0.21 10-11	>878 1	80			
BCLL 0.0	Rep Stress Incr	NO	WB 0.71	Horz(C1	0.06 8	n/a i	n/a			
BCDL 10.0	Code IRC2018	/TPI2014	Matrix-MS					Weight: 59 lb	FT = 20%	

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (3-10-7 max.): 4-6. WEBS 2x4 SPF No.2 **BOT CHORD**

Rigid ceiling directly applied or 7-3-12 oc bracing. Left 2x4 SPF No.2 -t 2-6-0, Right 2x4 SPF No.2 -t 2-6-0 SLIDER

REACTIONS. (size) 8=0-4-0, 2=0-4-0

Max Horz 2=38(LC 29)

Max Uplift 8=-261(LC 9), 2=-281(LC 8) Max Grav 8=1238(LC 1), 2=1322(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD $2-4=-1927/424,\ 4-5=-1649/385,\ 5-6=-1664/388,\ 6-8=-1941/427$ **BOT CHORD** 2-11=-361/1700, 10-11=-659/3002, 9-10=-659/3002, 8-9=-341/1714 **WEBS** 4-11=-101/639, 5-11=-1463/355, 5-10=0/310, 5-9=-1452/354, 6-9=-101/638

- 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=4.2psf; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 261 lb uplift at joint 8 and 281 lb uplift at joint 2.
- 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.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) 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

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-6=-90, 6-8=-90, 12-16=-20

Concentrated Loads (lb)

Vert: 10=-41(B) 5=-57(B) 20=-57(B) 21=-57(B) 22=-57(B) 23=-57(B) 24=-157(B) 25=-41(B) 26=-41(B) 27=-41(B) 28=-41(B)



Structural wood sheathing directly applied or 3-8-3 oc purlins, except

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Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358412 2704151 H01 HIP GIRDER | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:34 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-TbeST0DfrPWK4v07flCOWQyegl5e9STaMnli3UzXQGd 8-2-8

1-10-0

2-9-0

7-4-0

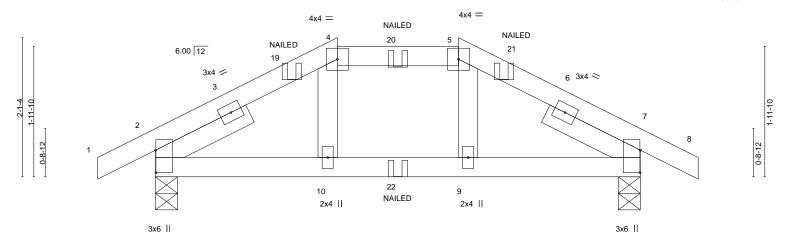
2-0-0 oc purlins (6-0-0 max.): 4-5.

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except

Scale = 1:17.4

0-10-8



				2-9-0			1-10-0				2-9-0		
Plate Offs	sets (X,Y)	[2:0-4-1,0-0-1],	[7:0-4-1,0-0-	-1]									
LOADING	G (psf)	SPACIN	IG- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Gri	ip DOL	1.15	TC	0.15	Vert(LL)	-0.01	9	>999	240	MT20	197/144
TCDL	20.0	Lumber [DOL	1.15	BC	0.20	Vert(CT)	-0.02	9-10	>999	180		
BCLL	0.0	Rep Stre	ess Incr	NO	WB	0.02	Horz(CT)	0.01	7	n/a	n/a		
BCDL	10.0	Code IR	RC2018/TPI2	014	Matri	x-MP						Weight: 27	7 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

4-7-0

LUMBER-

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

WEBS 2x4 SPF No.2 SLIDER Left 2x4 SPF No.2 -t 1-6-15, Right 2x4 SPF No.2 -t 1-6-15

REACTIONS. (size) 2=0-4-0, 7=0-4-0 Max Horz 2=31(LC 12)

0-10-8

2-9-0

Max Uplift 2=-129(LC 8), 7=-129(LC 9) Max Grav 2=563(LC 1), 7=563(LC 1)

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

2-4=-589/158, 4-5=-492/142, 5-7=-589/158 TOP CHORD BOT CHORD 2-10=-102/496, 9-10=-104/492, 7-9=-104/496

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=4.2psf; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 129 lb uplift at joint 2 and 129 lb uplift at ioint 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.
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 8) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 9) 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

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

Uniform Loads (plf)

Vert: 1-4=-90, 4-5=-90, 5-8=-90, 11-15=-20

Concentrated Loads (lb)

Vert: 19=-32(B) 20=-57(B) 21=-32(B) 22=-41(B)



March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358413 2704151 H₀2 COMMON Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:35 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-xnCqgMElcjfBi3bKD?kd2dUpLhShuvUkbR1GbwzXQGc

3-8-0

3-8-0

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

3-8-0

3-8-0

Scale = 1:19.5

8-2-8

0-10-8

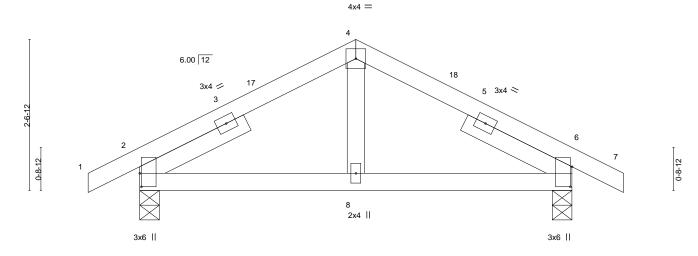


Plate Off	sets (X,Y)	[2:0-2-12,0-0-5], [6:0-4-1,	0-0-5]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	-0.01	8-15	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.01	8-15	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/TF	PI2014	Matri	x-AS						Weight: 27 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 -t 2-0-3, Right 2x4 SPF No.2 -t 2-0-3

0-10-8

REACTIONS. (size) 2=0-4-0, 6=0-4-0 Max Horz 2=40(LC 16)

Max Uplift 2=-74(LC 12), 6=-74(LC 13) Max Grav 2=482(LC 1), 6=482(LC 1)

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

2-4=-384/214, 4-6=-384/214 TOP CHORD BOT CHORD 2-8=-77/332, 6-8=-77/332

NOTES-

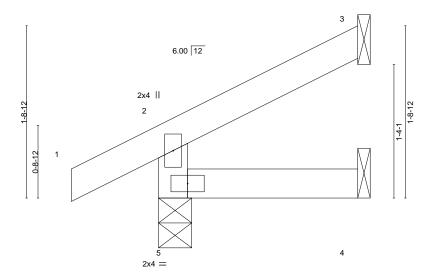
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-8-0, Exterior(2R) 3-8-0 to 6-10-14, Interior(1) 6-10-14 to 8-2-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 74 lb uplift at joint 2 and 74 lb uplift at ioint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358414 2704151 J01 JACK-OPEN 5 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:36 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-P_mCuiFwN0n2KDAWnjFsbr1?15qbdMGtq5np7NzXQGb 2-0-0 2-0-0 0-10-8



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 240 197/144 **TCLL** 0.09 5 >999 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 >999 180 4-5 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) -0.00 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 6 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-4-0, 3=Mechanical, 4=Mechanical (size) Max Horz 5=48(LC 12) Max Uplift 5=-28(LC 12), 3=-33(LC 12)

> Max Grav 5=219(LC 1), 3=61(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 5 and 33 lb uplift at joint 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.



Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.

Scale = 1:11.6



Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358415 2704151 J01A Jack-Open

Builders FirstSource (Valley Center),

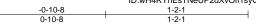
Valley Center, KS - 67147,

| Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:36 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-P_mCuiFwN0n2KDAWnjFsbr1?15qrdMGtq5np7NzXQGb

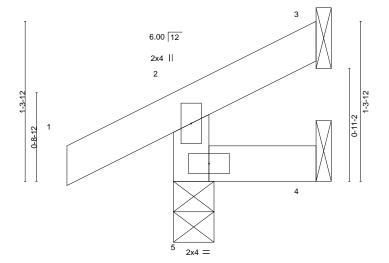
Structural wood sheathing directly applied or 1-2-1 oc purlins,

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

except end verticals.



Scale = 1:9.5



1-2-1 1-2-1

BRACING-

TOP CHORD

BOT CHORD

LOADIN	\1 /	SPACING- 2-0		CSI.	2.22	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0		15	TC	0.09	Vert(LL)	0.00	5	>999	240	MT20	197/144
TCDL	20.0		15	BC	0.02	Vert(CT)	0.00	5	>999	180		
BCLL	0.0	Rep Stress Incr YE		WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	4	Matri	x-MR						Weight: 4 lb	FT = 20%

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-4-0, 3=Mechanical, 4=Mechanical (size) Max Horz 5=33(LC 9)

Max Uplift 5=-28(LC 12), 3=-15(LC 12), 4=-2(LC 9) Max Grav 5=194(LC 1), 3=12(LC 19), 4=14(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 5, 15 lb uplift at joint 3 and 2 lb uplift at joint 4.
- 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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Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358416 2704151 J02 Jack-Open Girder 5 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:37 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-tAJa52GY8KvvxNliLQm582a8GV9gMpW12lWNgpzXQGa 1-5-8 3-8-11 Scale: 1"=1 0-4-2 6 3.60 12 2x4 || 1-9-1 0-8-12 2x4 = 3-8-3 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 4-5 25.0 Plate Grip DOL 1.15 Vert(LL) -0.01 >999 240 197/144 **TCLL** TC 0.25 MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.11 Vert(CT) -0.01 4-5 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.01 3 n/a n/a Code IRC2018/TPI2014 BCDL 10.0 Matrix-MR Weight: 11 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SPF No.2

> 5=0-5-11, 3=Mechanical, 4=Mechanical (size)

Max Horz 5=61(LC 8)

Max Uplift 5=-106(LC 8), 3=-48(LC 12)

Max Grav 5=371(LC 1), 3=126(LC 1), 4=64(LC 3)

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

TOP CHORD 2-5=-335/257

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-5-8 to 2-9-7, Exterior(2R) 2-9-7 to 3-7-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 106 lb uplift at joint 5 and 48 lb uplift at joint 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.



Structural wood sheathing directly applied or 3-8-11 oc purlins,

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

except end verticals.

March 26,2021





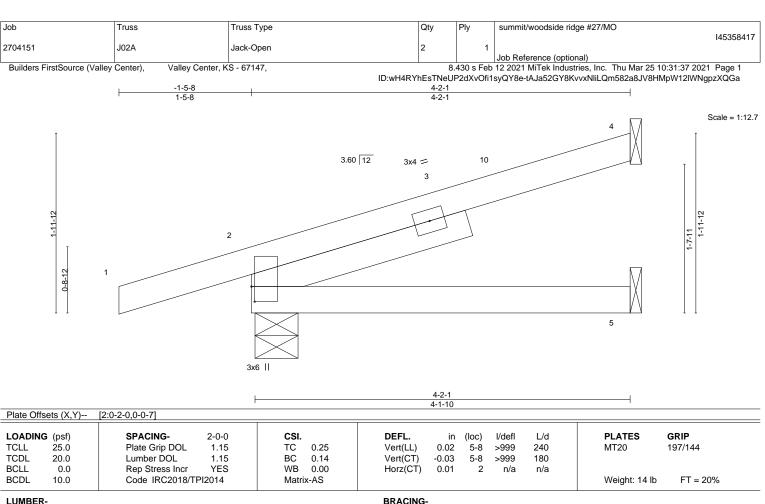
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

AMSI/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



TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

SLIDER Left 2x4 SPF No.2 -t 2-6-0

REACTIONS. (size) 4=Mechanical, 2=0-5-11, 5=Mechanical

Max Horz 2=74(LC 8) Max Uplift 4=-54(LC 12), 2=-101(LC 8)

Max Grav 4=152(LC 1), 2=381(LC 1), 5=72(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-5-8 to 2-9-7, Exterior(2R) 2-9-7 to 4-1-5 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 4 and 101 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358418 2704151 J03 HALF HIP GIRDER 5 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:38 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-MMtzIOGAue1mZXKvu8HKgG6JavRo5GPAHPGwCFzXQGZ 3-0-0 0-10-8 3-0-0 1-0-0 Scale = 1:11.4 4x4 = 4.50 12 0-3-8 1-8-12 -7-1 2 -3-9 0-7-4 5 6 2x4 || 3x6 | 4x4 || 3-0-0 4-0-0 Plate Offsets (X,Y)--[2:0-2-0,0-4-11] SPACING-**PLATES** LOADING (psf) 2-0-0 CSI DEFL. in (loc) I/defl L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) -0.02 6-9 >999 240 197/144 MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.38 Vert(CT) -0.056-9 >915 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.02 Horz(CT) 0.03 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 13 lb BRACING-LUMBER-TOP CHORD 2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins: 3-4. WEBS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing WEDGE Left: 2x4 SPF No.2

REACTIONS.

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

Max Horz 2=55(LC 4)

Max Uplift 4=-46(LC 11), 2=-67(LC 4), 5=-34(LC 8) Max Grav 4=111(LC 22), 2=306(LC 1), 5=172(LC 1)

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

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=4.2psf; 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 4, 67 lb uplift at joint 2 and 34 lb uplift at joint 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 56 lb up at 3-11-4, and 29 lb down and 36 lb up at 3-0-0 on top chord, and 22 lb down at 3-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) 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

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-4=-90, 5-7=-20

Concentrated Loads (lb)

Vert: 4=-51(B) 6=-8(B)

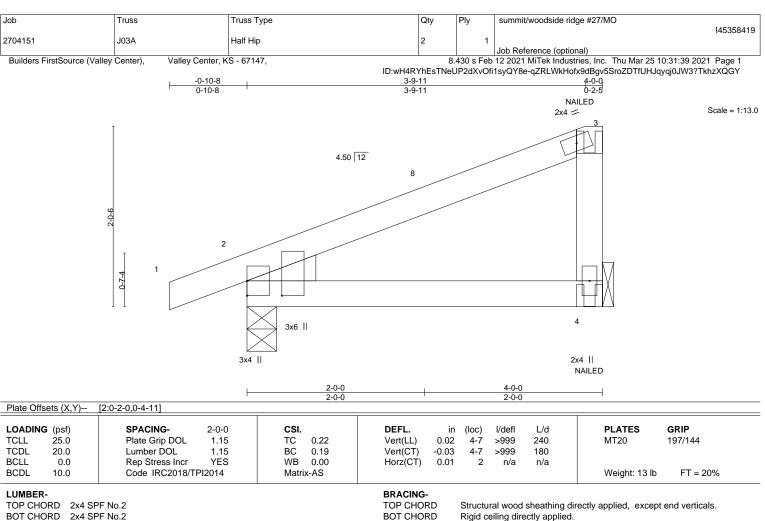


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BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 4=Mechanical, 2=0-4-0

Max Horz 2=81(LC 11)

Max Uplift 4=-66(LC 12), 2=-67(LC 8) Max Grav 4=312(LC 1), 2=300(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-10-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 4 and 67 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- "NAILED" indicates 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) 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

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

Uniform Loads (plf)

Vert: 1-3=-90, 4-5=-20 Concentrated Loads (lb)

Vert: 3=-75(F) 4=-33(F)



March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358420 2704151 J04 JACK-OPEN 17 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:40 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-II?jj3IQQFHUoqTH0ZJolhCeri83ZAGTkil1G8zXQGX -0-10-8 4-0-0 0-10-8 4-0-0 Scale = 1:13.3 4.50 12 9 1-8-15 0-7-4 3x4 || 4-0-0 4-0-0 Plate Offsets (X,Y)--[2:0-2-0,0-4-11] SPACING-L/d **PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI Plate Grip DOL TCLL 25.0 1.15 TC 0.23 Vert(LL) 0.02 4-7 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.03 4-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 12 lb

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

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

Max Horz 2=74(LC 8)

Max Uplift 3=-53(LC 12), 2=-59(LC 8), 4=-1(LC 12) Max Grav 3=147(LC 1), 2=304(LC 1), 4=77(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3, 59 lb uplift at joint 2 and 1 lb uplift at joint 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



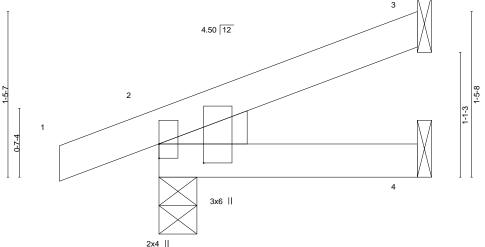
March 26,2021







Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358421 2704151 J05 Jack-Open 2 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:41 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-mxZ5xPJ2BZPLQ_2TaGq1lukr86XZldVczMUapazXQGW 2-3-4 0-10-8 Scale = 1:10.1



BRACING-

TOP CHORD

BOT CHORD

Plate Off	fsets (X,Y)	[2:0-2-0,0-4-11]		
LOADIN	IG (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00 7 >999 240 MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.05	Vert(CT) -0.00 7 >999 180
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP	Weight: 7 lb FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

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

Max Horz 2=49(LC 8)

Max Uplift 3=-27(LC 12), 2=-50(LC 8), 4=-3(LC 12) Max Grav 3=72(LC 1), 2=216(LC 1), 4=41(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 3, 50 lb uplift at joint 2 and 3 lb uplift at joint 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

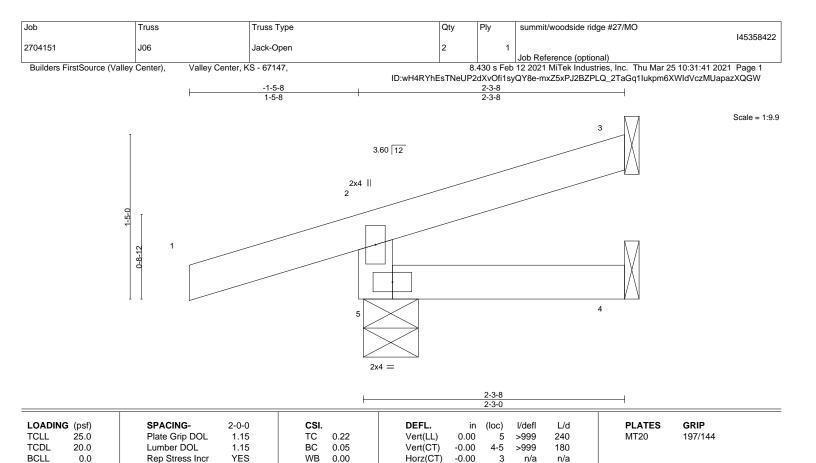


Structural wood sheathing directly applied or 2-3-4 oc purlins.

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







BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

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

WEBS 2x4 SPF No.2

10.0

5=0-5-11, 3=Mechanical, 4=Mechanical (size) Max Horz 5=44(LC 8) Max Uplift 5=-104(LC 8), 3=-24(LC 12) Max Grav 5=315(LC 1), 3=52(LC 1), 4=32(LC 3)

Code IRC2018/TPI2014

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

2-5=-279/228

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MR

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 104 lb uplift at joint 5 and 24 lb uplift at joint 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.



Weight: 7 lb

Structural wood sheathing directly applied or 2-3-8 oc purlins,

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

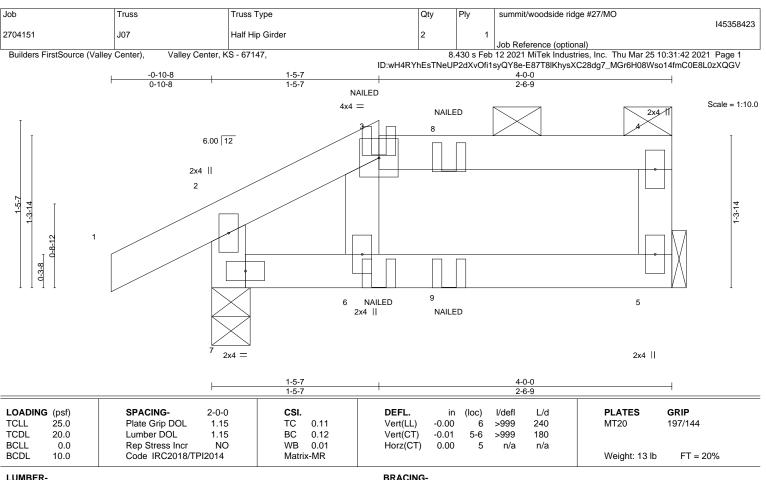
except end verticals.

FT = 20%









TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

BOT CHORD **WEBS** 2x4 SPF No.2

5=Mechanical, 7=0-4-0 (size)

Max Horz 7=50(LC 5) Max Uplift 5=-46(LC 5), 7=-59(LC 8)

Max Grav 5=197(LC 1), 7=312(LC 1)

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

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=4.2psf; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 46 lb uplift at joint 5 and 59 lb uplift at joint 7.
- 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.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-2=-90, 2-3=-90, 3-4=-90, 5-7=-20

Concentrated Loads (lb)

Vert: 6=5(F) 9=-14(F)



Structural wood sheathing directly applied or 4-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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

March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358424 2704151 J08 Half Hip 2 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:43 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-iKhrM5KJjAf2flCshhtVNJqAow8RmXbvRgzhtTzXQGU 0-10-8 2-11-7 1-0-9 Scale = 1:13.9 4x4 = 3x4 / 6.00 12 0-8-12 6 ⁷ 2x4 || 3x6 || 2-11-7 2-11-7 1-0-9 Plate Offsets (X,Y)--[2:0-3-13,0-0-1] SPACING-**PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.18 Vert(LL) 0.03 7-10 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 ВС 0.35 Vert(CT) -0.05 7-10 >994 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 Horz(CT) 0.04 5 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Weight: 15 lb Matrix-AS

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied, except

2-0-0 oc purlins: 4-5.

Rigid ceiling directly applied.

LUMBER-

TOP CHORD 2x4 SPF No.2

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

SLIDER Left 2x4 SPF No.2 -t 2-6-0

REACTIONS. (size) 5=Mechanical, 2=0-4-0, 6=Mechanical

Max Horz 2=72(LC 12)

Max Uplift 5=-14(LC 8), 2=-44(LC 12), 6=-34(LC 12) Max Grav 5=44(LC 1), 2=304(LC 1), 6=164(LC 1)

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

TOP CHORD 2-4=-299/199

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-11-7, Exterior(2E) 2-11-7 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 5, 44 lb uplift at joint 2 and 34 lb uplift at joint 6.
- 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.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



March 26,2021







Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358425 2704151 J09 Jack-Open 5 Job Reference (optional) Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:43 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-iKhrM5KJjAf2flCshhtVNJq9vwBVmX?vRgzhtTzXQGU 4-0-0 0-10-8 4-0-0 Scale = 1:16.5 0-4-11 6.00 12 2x4 || 3x4 =4-0-0 4-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc)

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.01

-0.02

-0.01

>999

>999

n/a

Rigid ceiling directly applied.

4-5

4-5

3

240

180

n/a

LUMBER-

REACTIONS.

TCLL

TCDL

BCLL

BCDL

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

25.0

20.0

0.0

10.0

WEBS

(size) 5=0-4-0, 3=Mechanical, 4=Mechanical Max Horz 5=88(LC 12)

Code IRC2018/TPI2014

Max Uplift 5=-35(LC 12), 3=-68(LC 12)

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Max Grav 5=313(LC 1), 3=150(LC 1), 4=74(LC 3)

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

2-5=-284/160

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

ВС

WB

Matrix-AS

0.24

0.15

0.00

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

1.15

1.15

YES

- 3) Refer to girder(s) for truss to truss connections.
- 4) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 5 and 68 lb uplift at joint 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.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



197/144

FT = 20%

MT20

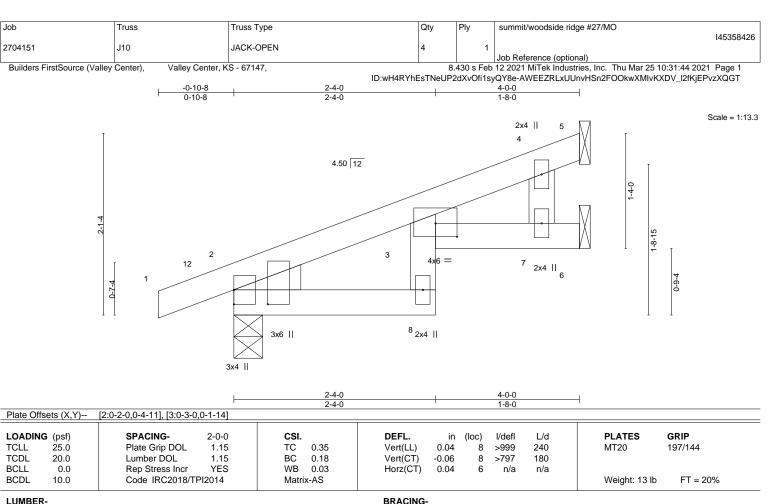
Structural wood sheathing directly applied, except end verticals.

Weight: 11 lb

March 26,2021







TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. (size) 5=Mechanical, 2=0-4-0, 6=Mechanical

Max Horz 2=74(LC 8)

Max Uplift 5=-7(LC 1), 2=-58(LC 8), 6=-61(LC 12) Max Grav 5=8(LC 12), 2=305(LC 1), 6=215(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-1, Interior(1) 2-1-1 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 5, 58 lb uplift at joint 2 and 61 lb uplift at joint 6.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.







Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358427 2704151 J11 JACK-OPEN 5 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:45 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-ejocnnMZFnvmvbMFp6vzSkvVajsEERVCu_SoyLzXQGS -0-10-8 4-0-0 0-10-8 4-0-0 Scale = 1:13.3 4.50 12 9 1-8-15 0-7-4 3x4 || 4-0-0 4-0-0 Plate Offsets (X,Y)--[2:0-2-0,0-4-11] SPACING-L/d **PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI Plate Grip DOL TCLL 25.0 1.15 TC 0.23 Vert(LL) 0.02 4-7 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 ВС 0.20 Vert(CT) -0.03 4-7 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 12 lb **BRACING-**

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

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

Max Horz 2=74(LC 8)

Max Uplift 3=-53(LC 12), 2=-59(LC 8), 4=-1(LC 12) Max Grav 3=147(LC 1), 2=304(LC 1), 4=77(LC 3)

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

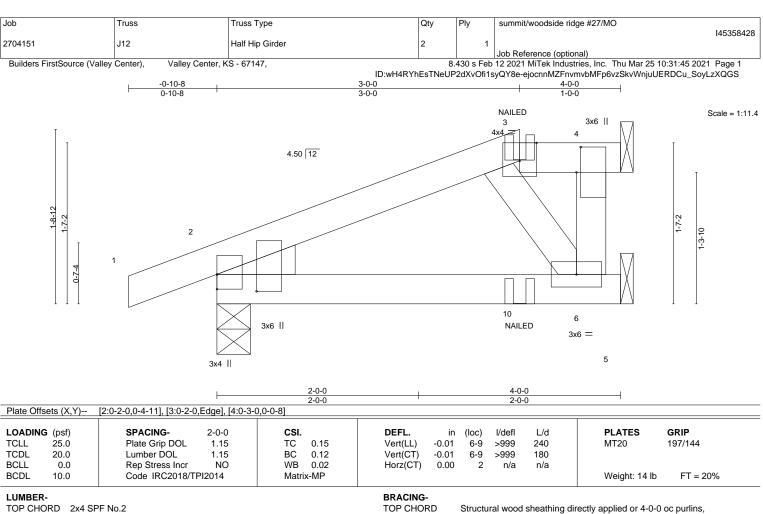
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 53 lb uplift at joint 3, 59 lb uplift at joint 2 and 1 lb uplift at joint 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.











BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS. 4=Mechanical, 2=0-4-0, 6=Mechanical (size)

Max Horz 2=60(LC 7)

Max Uplift 4=-11(LC 4), 2=-70(LC 4), 6=-32(LC 5)

Max Grav 4=32(LC 1), 2=294(LC 1), 6=177(LC 1)

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

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=4.2psf; 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 4, 70 lb uplift at joint 2 and 32 lb uplift at joint 6.
- 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.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-90, 3-4=-90, 5-7=-20

Concentrated Loads (lb) Vert: 3=-4(B) 10=-6(B)



except end verticals, and 2-0-0 oc purlins: 3-4.

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

March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358429 2704151 J13 JACK-OPEN Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:46 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-7vM__7NB051dWlxRMpQC?yRg67C0zulL7eCLUozXQGR 4-0-0 Scale = 1:13.3 4.50 12 1-8-15 0-7-4 3 3x4 || 4-0-0 4-0-0 Plate Offsets (X,Y)--[1:0-2-0,0-4-11] SPACING-**PLATES** GRIP LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d Plate Grip DOL TCLL 25.0 1.15 TC 0.24 Vert(LL) 0.02 3-6 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 ВС 0.23 Vert(CT) -0.03 3-6 >999 180 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-AS Weight: 10 lb

BRACING-

TOP CHORD

BOT CHORD

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

LUMBER-

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

WEDGE

Left: 2x4 SPF No.2

REACTIONS.

(size) 1=0-4-0, 2=Mechanical, 3=Mechanical

Max Horz 1=60(LC 12)

Max Uplift 1=-24(LC 12), 2=-54(LC 12), 3=-2(LC 12) Max Grav 1=217(LC 1), 2=151(LC 1), 3=79(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 24 lb uplift at joint 1, 54 lb uplift at joint 2 and 2 lb uplift at joint 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358430 2704151 J14 Jack-Open Girder | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:47 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-b5wMBTNpnP9U8vWdwXxRY9_rSXZjiL?VLIxu0EzXQGQ 3-2-0 1-5-8 Scale = 1:11.2 NAILED 3x4 = 3.60 12 2 0-8-12 10 5 NAILED 3x6 || Plate Offsets (X,Y)--[2:0-1-12,0-0-7] SPACING-**PLATES** LOADING (psf) CSI. DEFL. in (loc) I/def L/d GRIP TCLL 25.0 Plate Grip DOL 1.15 TC 0.21 Vert(LL) -0.00 5-8 >999 240 MT20 197/144 TCDL 20.0 Lumber DOL 1.15 BC 0.07 Vert(CT) -0.01 5-8 >999 180 **BCLL** 0.0 Rep Stress Incr NO WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2018/TPI2014 FT = 20% **BCDL** 10.0 Matrix-MP Weight: 12 lb

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 -t 2-6-0

REACTIONS. (size) 4=Mechanical, 2=0-5-11, 5=Mechanical

Max Horz 2=62(LC 4)

Max Uplift 4=-40(LC 8), 2=-97(LC 4)

Max Grav 4=107(LC 1), 2=332(LC 1), 5=51(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=4.2psf; 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) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 4 and 97 lb uplift at ioint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 7) 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

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-4=-90, 5-6=-20 Concentrated Loads (lb) Vert: 10=2(F)

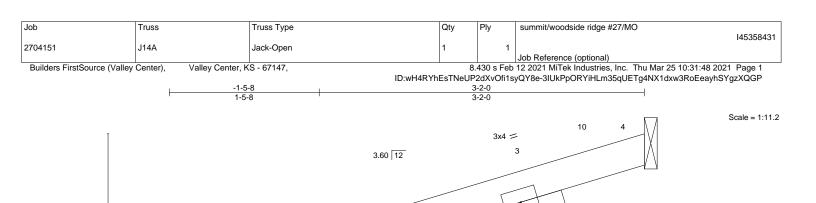


Structural wood sheathing directly applied or 3-2-0 oc purlins.

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

March 26,2021





3x6 ||

Structural wood sheathing directly applied or 3-2-0 oc purlins.

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

Plate Off	fsets (X,Y)	[2:0-1-12,0-0-7]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.Ó	Plate Grip DOL	1.15	TC	0.18	Vert(LL)	-0.00	5-8	>999	240	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.01	5-8	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code IRC2018/T	PI2014	Matri	x-MP						Weight: 12 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 -t 2-6-0

0-8-12

REACTIONS. (size) 4=Mechanical, 2=0-5-11, 5=Mechanical

Max Horz 2=62(LC 8)

Max Uplift 4=-39(LC 12), 2=-95(LC 8)

Max Grav 4=107(LC 1), 2=333(LC 1), 5=51(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -1-5-8 to 2-9-7, Exterior(2R) 2-9-7 to 3-1-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

2

- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 4 and 95 lb uplift at joint 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.









Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358432 2704151 J15 Jack-Open | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:49 2021 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-XU27c8P4J0PCODf02y_vda3D6LG7AFUopcQ?56zXQGO

Structural wood sheathing directly applied or 1-2-1 oc purlins.

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

1-2-1 0-10-8 1-2-1

Scale = 1:9.5

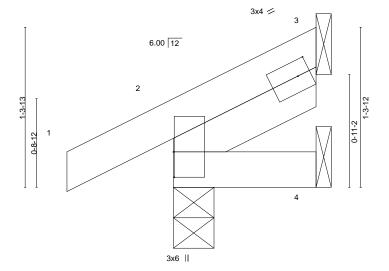


Plate Off	sets (X,Y)	[2:0-2-8,0-0-1], [3:0-1-4,0-1-8]				
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in ((loc) I/defl L/d	PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	7 >999 240	MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00	7 >999 180	
BCLL	0.0	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00	3 n/a n/a	
BCDL	10.0	Code IRC2018/TPI2014	Matrix-MP			Weight: 6 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SPF No.2 -t 1-4-5

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

Max Horz 2=39(LC 12)

Max Uplift 3=-19(LC 12), 2=-22(LC 12), 4=-2(LC 12) Max Grav 3=29(LC 1), 2=172(LC 1), 4=15(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 19 lb uplift at joint 3, 22 lb uplift at joint 2 and 2 lb uplift at joint 4.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358433 2704151 LG01 **GABLE**

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

| Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:49 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-XU27c8P4J0PCODf02y_vda3DXLGJABsopcQ?56zXQGO

7-9-11 7-9-11

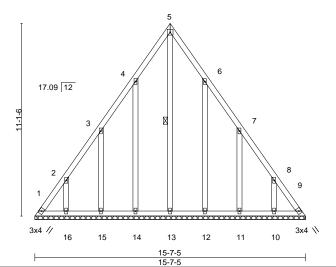
> Scale = 1:66.5 4x4 =

> > Structural wood sheathing directly applied or 6-0-0 oc purlins.

5-13

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

1 Row at midpt



LOADING TCLL	25.Ó	SPACING- Plate Grip DOL	2-0-0 1.15	CSI.	0.10	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.30	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code IRC2018/TI	PI2014	Matri	x-S						Weight: 93 lb	FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. All bearings 15-7-5.

Max Horz 1=-308(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-187(LC 10), 9=-150(LC 11), 14=-208(LC 12),

15=-211(LC 12), 16=-201(LC 12), 12=-206(LC 13), 11=-212(LC 13), 10=-200(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 13 except 1=387(LC 12), 9=364(LC 13), 14=289(LC 19), 15=275(LC 19), 16=270(LC 19), 12=287(LC 20), 11=276(LC 20), 10=270(LC 20)

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

1-2=-486/330, 2-3=-301/230, 7-8=-273/184, 8-9=-458/330 TOP CHORD

1-16=-202/296, 15-16=-202/296, 14-15=-202/296, 13-14=-202/296, 12-13=-202/296, BOT CHORD

11-12=-202/296, 10-11=-202/296, 9-10=-202/296

WEBS 4-14=-280/224, 3-15=-289/229, 2-16=-265/208, 6-12=-280/222, 7-11=-289/230,

8-10=-265/208

- 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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-6 to 3-3-6, Interior(1) 3-3-6 to 7-9-11, Exterior(2R) 7-9-11 to 10-9-11, Interior(1) 10-9-11 to 15-3-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 187 lb uplift at joint 1, 150 lb uplift at joint 9, 208 lb uplift at joint 14, 211 lb uplift at joint 15, 201 lb uplift at joint 16, 206 lb uplift at joint 12, 212 lb uplift at joint 11 and 200 lb uplift at joint 10.
- 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.



March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358434 2704151 LG02 **GABLE** | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:50 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-?gcVqUQi4KX3?NECbfV89ocOUkczvi9x2GAZdZzXQGN 8-11-11 4-5-14 4-5-14 Scale = 1:25.4 4x4 = 3 10.06 12 2x4 || 2x4 || 2 10 2x4 💸 2x4 / Ш 2x4 || 2x4 || 2x4 8-11-11 8-11-11 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.09 n/a n/a MT20 **TCDL** 20.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) n/a n/a 999

Horz(CT)

BRACING-TOP CHORD

BOT CHORD

0.00

5

n/a

n/a

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

Weight: 30 lb

FT = 20%

LUMBER-

BCLL

BCDL

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

BOT CHORD **OTHERS** 2x4 SPF No.2

0.0

10.0

REACTIONS. All bearings 8-11-11. Max Horz 1=-89(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-126(LC 12), 6=-125(LC 13)

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=292(LC 19), 6=292(LC 20)

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

NOTES-

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

Rep Stress Incr

Code IRC2018/TPI2014

2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 4-5-14, Exterior(2R) 4-5-14 to 7-5-14 , Interior(1) 7-5-14 to 8-6-14 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-P

0.04

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=126, 6=125
- 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.







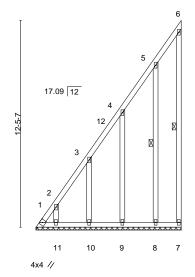
Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #27/MO
					145358435
2704151	LG03	GABLE	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:51 2021 Page 1 ID:3seZTgShN_qvhelqPBpz4myNXMX-TsAt1qRKrdgwdWpO9N0Ni?9Y18yLe504Gwv69?zXQGM

5-2-7 7-2-7 8-8-15 2-0-0 2-0-0 1-6-8 2-0-0

Scale = 1:69.4



 $\begin{vmatrix} 1-2-7 & 3-2-7 & 5-2-7 & 7-2-7 & 8-8-15 \\ 1-2-7 & 2-0-0 & 2-0-0 & 1-6-8 \end{vmatrix}$

LOADING (psf) TCLL 25.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.17 BC 0.02	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.25 Matrix-P	Horz(CT) 0.00 n/a n/a	Weight: 65 lb FT = 20%

LUMBER-BRACING-

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

2x4 SPF No.2

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

WEBS 1 Row at midpt 6-7, 5-8

REACTIONS. All bearings 8-8-15.

Max Horz 1=483(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-278(LC 10), 11=-174(LC 12), 10=-211(LC 12),

9=-211(LC 12), 8=-188(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 7, 11 except 1=669(LC 12), 10=282(LC 19), 9=281(LC 19), 8=254(LC 19)

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

1-2=-870/753, 2-3=-682/612, 3-4=-454/427 TOP CHORD

WFBS 2-11=-253/220, 3-10=-306/266, 4-9=-306/228, 5-8=-274/204

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-6 to 4-6-4, Exterior(2R) 4-6-4 to 8-7-3 zone; cantilever left and right exposed; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 1=278, 11=174, 10=211, 9=211, 8=188.
- 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.





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358436 2704151 LG04 **GABLE** | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:52 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, $ID: 3 se ZTgShN_qvhelqPBpz4myNXMX-x3jFFARybxonFgObj4XcFDhk5YIINbREVaffiRzXQGL\\$ 6-3-3 6-3-3

> Scale = 1:32.3 3x4 =

> > Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

6-3-3

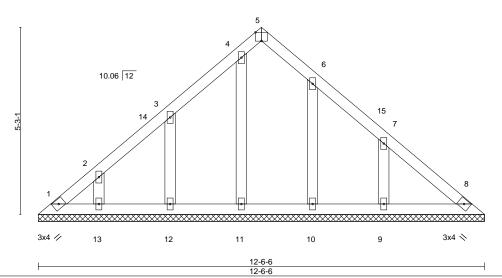


Plate Off	rsets (X,Y)	[5:0-2-0,Edge]		
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d PLATES GRIP
TCLL	25.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) n/a - n/a 999 MT20 197/144
TCDL	20.0	Lumber DOL 1.15	BC 0.04	Vert(CT) n/a - n/a 999
BCLL	0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 8 n/a n/a
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Weight: 47 lb FT = 20%

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

REACTIONS. All bearings 12-6-6. (lb) -Max Horz 1=-128(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 11, 10 except 12=-114(LC 12), 9=-135(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 8, 13, 12, 11, 10 except 9=305(LC 20)

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

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 6-3-3, Exterior(2R) 6-3-3 to 9-3-3, Interior(1) 9-3-3 to 12-1-9 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 11, 10 except (it=lb) 12=114, 9=135,
- 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.





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358437 2704151 LG05 **GABLE** Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:53 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:3seZTgShN_qvheIqPBpz4myNXMX-PFHdSWSaMFwesqznHn2rnQEv_ydj62_NkEODEuzXQGK 4-10-8 4-10-8

Scale = 1:26.5

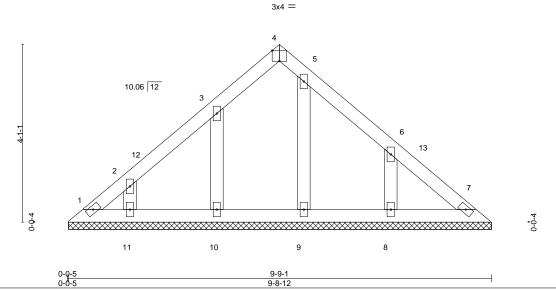


Plate Off	sets (X,Y)	[4:0-2-0,Edge]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	7	n/a	n/a		
BCDL	10.0	Code IRC2018/Ti	PI2014	Matri	x-S						Weight: 33 lb	FT = 20%

LUMBER-

2x4 SPF No.2 TOP CHORD 2x4 SPF No.2 **BOT CHORD OTHERS** 2x4 SPF No.2 BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

REACTIONS. All bearings 9-8-12.

(lb) -Max Horz 1=98(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 10, 9 except 8=-121(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 7, 11, 10, 9 except 8=265(LC 20)

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

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-5-4, Interior(1) 3-5-4 to 4-10-8, Exterior(2R) 4-10-8 to 7-10-8, Interior(1) 7-10-8 to 9-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 10, 9 except (it=lb) 8=121.
- 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.



March 26,2021



Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #27/MO	1
					145358438	
2704151	LG06	GABLE	1	1		
					Job Reference (optional)	

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:53 2021 Page 1 ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-PFHdSWSaMFwesgznHn2rnQEoJyYC6_7NkEODEuzXQGK

9-3-3 9-3-3

Scale = 1:78.2

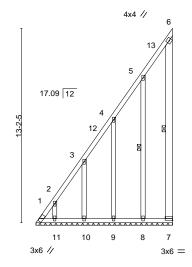


Plate Offsets (X,Y)	[7:Edge,0-1-8]			
LOADING (psf) TCLL 25.0 TCDL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	CSI. TC 0.57 BC 0.38	DEFL. in (loc) I/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 197/144
BCLL 0.0 BCDL 10.0	Rep Stress Incr YES Code IRC2018/TPI2014	WB 0.28 Matrix-S	Horz(CT) 0.00 7 n/a n/a	Weight: 76 lb FT = 20%

LUMBER-

WEBS

TOP CHORD 2x4 SPF No.2 **BOT CHORD** 2x4 SPF No.2 2x6 SPF No.2 **OTHERS** 2x4 SPF No.2

BRACING-TOP CHORD **BOT CHORD**

WEBS

Structural wood sheathing directly applied or 5-8-12 oc purlins,

except end verticals. 1 Row at midpt

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

REACTIONS. All bearings 9-3-3.

Max Horz 1=436(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) except 1=-338(LC 10), 7=-216(LC 11), 8=-219(LC 12), 9=-202(LC

12), 10=-214(LC 12), 11=-175(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 7, 11 except 1=551(LC 12), 8=265(LC 19), 9=279(LC 19), 10=282(LC 19)

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

TOP CHORD 1-2=-1075/1062, 2-3=-926/930, 3-4=-723/741, 4-5=-544/580, 5-6=-273/301,

6-7=-258/209

WEBS 5-8=-405/308, 4-9=-327/252, 3-10=-310/257, 2-11=-251/216

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-6 to 4-6-4, Exterior(2R) 4-6-4 to 9-0-7 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) All plates are 2x4 MT20 unless otherwise indicated.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 338 lb uplift at joint 1, 216 lb uplift at joint 7, 219 lb uplift at joint 8, 202 lb uplift at joint 9, 214 lb uplift at joint 10 and 175 lb uplift at joint 11.
- 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.







Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358439 2704151 LG07 **GABLE** | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:54 2021 Page 1

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

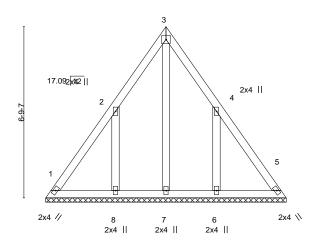
ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-uRr0fsTC7Y2VU_YzqVZ4Ken4yMzWrUQXyu8mmKzXQGJ

9-6-5 4-9-3

> Scale = 1:45.6 4x4 =

> > Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



BRACING-

TOP CHORD

BOT CHORD

LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.12	DEFL. Vert(LL) n	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL 20.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.06 WB 0.08 Matrix-S	Vert(CT) n Horz(CT) 0.0	n/a n/a	999 n/a	Weight: 43 lb	FT = 20%

LUMBER-

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

OTHERS 2x4 SPF No.2

REACTIONS. All bearings 9-6-5. Max Horz 1=-184(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-281(LC 12), 6=-280(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=378(LC 19), 6=377(LC 20)

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

2-8=-380/286, 4-6=-380/286 WEBS

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-6 to 3-3-6, Interior(1) 3-3-6 to 4-9-3, Exterior(2R) 4-9-3 to 7-9-3, Interior(1) 7-9-3 to 9-2-15 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=281, 6=280,
- 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.



March 26,2021



Job	Truss	Truss Type	Qty	Ply	summit/woodside ridge #27/MO
					145358440
2704151	LG08	GABLE	1	1	
					Job Reference (optional)

Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:55 2021 Page 1 ID:3seZTgShN_qvhelqPBpz4myNXMX-MePOtCUqusAL687AOC5JsrJEillPaxTgBYtKImzXQGI

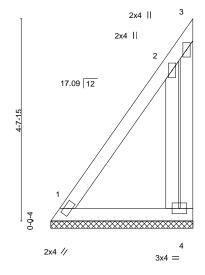
Structural wood sheathing directly applied or 3-3-5 oc purlins,

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

except end verticals.

3-3-5

Scale = 1:26.6



LOADING (psf) TCLL 25.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.19	Vert(LL) n/a	(loc) I/defl - n/a	L/d 999	PLATES GRIP MT20 197/144
TCDL 20.0 BCLL 0.0 BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2018/TPI2014	BC 0.08 WB 0.10 Matrix-P	Vert(CT) n/a Horz(CT) 0.00	- n/a 4 n/a	999 n/a	Weight: 18 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 1=3-3-5, 4=3-3-5 Max Horz 1=160(LC 9) Max Uplift 1=-42(LC 8), 4=-117(LC 9) Max Grav 1=212(LC 20), 4=217(LC 19)

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

1-2=-236/254, 2-3=-304/291, 3-4=-296/304 TOP CHORD

WEBS 2-4=-445/382

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 4=117.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358441 2704151 LG09 **GABLE** | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:56 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-qqzm4YUTfAlCjliMywcYP3sPy9f8JOTqQCdtrCzXQGH 4-3-15 11-5-5 Scale = 1:35.5 3x4 //

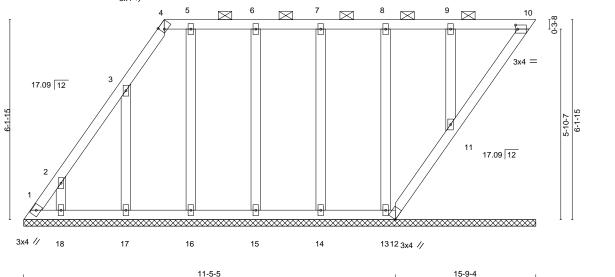


Plate Offsets (X,Y) [4:0-1-2,Edge], [10:0-0-12,0-1-8]												
LOADIN	G (psf) 25.0	SPACING- 2 Plate Grip DOL	2-0-0 1.15	CSI.	0.09	DEFL. Vert(LL)	in n/a	(loc)	l/defl n/a	L/d 999	PLATES MT20	GRIP 197/144
TCDL BCLL	20.0 0.0	Lumber DOL Rep Stress Incr	1.15 YES	BC WB	0.05 0.11	Vert(CT) Horz(CT)	n/a -0.00	- 10	n/a n/a	999 n/a		
BCDL	10.0	Code IRC2018/TPI2	-	Matri		1.0.2(0.7)	0.00		.,,	.,, \	Weight: 77 lb	FT = 20%

LUMBER-BRACING-

2x4 SPF No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except TOP CHORD

BOT CHORD 2x4 SPF No.2 2-0-0 oc purlins (6-0-0 max.): 4-10.

OTHERS 2x4 SPF No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-9-4.

Max Horz 1=242(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 12, 16, 15, 14, 13, 11 except 18=-184(LC 12),

17=-181(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 12, 18, 16, 15, 14, 13 except 1=274(LC 12), 17=258(LC

19), 11=287(LC 1)

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

TOP CHORD 1-2=-336/274 **WEBS** 3-17=-256/198

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-6 to 3-1-12, Interior(1) 3-1-12 to 4-3-15, Exterior(2R) 4-3-15 to 7-1-12, Interior(1) 7-1-12 to 15-6-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 10, 12, 16, 15, 14, 13, 11 except (jt=lb) 18=184, 17=181.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 11.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



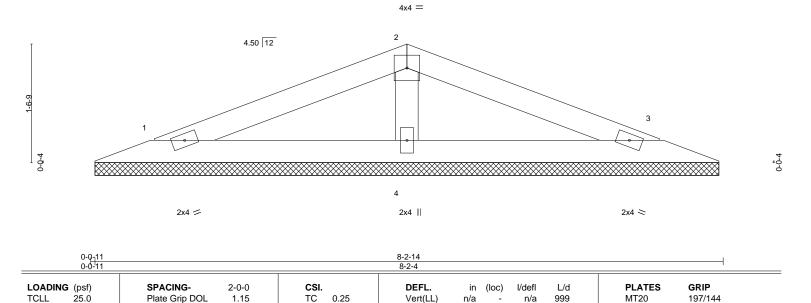
March 26,2021





Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358442 2704151 V01 Valley | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:56 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-qqzm4YUTfAlCjliMywcYP3sNW9eSJPfqQCdtrCzXQGH

Scale = 1:15.0



n/a

n/a

0.00

Vert(CT)

Horz(CT)

BRACING-TOP CHORD

BOT CHORD

n/a

n/a

n/a

3

999

n/a

MT20

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

Weight: 18 lb

FT = 20%

0.25

0.09

0.04

ВС

WB

Matrix-P

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

0.0

10.0

REACTIONS.

1=8-1-9, 3=8-1-9, 4=8-1-9 (size)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 1=22(LC 16)

Max Uplift 1=-38(LC 12), 3=-41(LC 13), 4=-27(LC 8) Max Grav 1=179(LC 1), 3=179(LC 1), 4=364(LC 1)

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

2-4=-282/167 WEBS

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

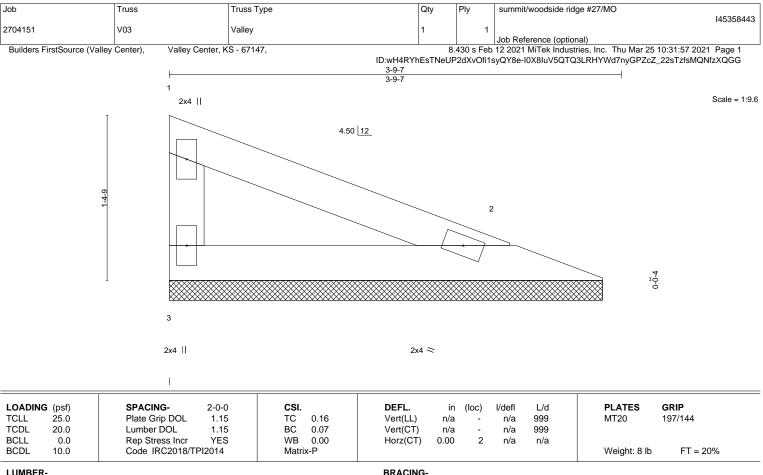
1.15

YES

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.







TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

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

WEBS 2x4 SPF No.2

> 3=3-7-8, 2=3-7-8 (size) Max Horz 3=-46(LC 8)

Max Uplift 3=-32(LC 13), 2=-23(LC 13) Max Grav 3=149(LC 1), 2=149(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 3-9-7 oc purlins,

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

except end verticals.







bb	Truss	Truss Type	Qty	Ply	summit/woodside ridg	je #27/MO	
704151	V04	Valley	1	1			145358444
704151	V04	valley	1	'	Job Reference (option	al)	
Builders FirstSource (Valley	Center), Valley Center, k	S - 67147,		3.430 s Feb	12 2021 MiTek Industr	ies, Inc. Thu Mar 25 1	0:31:58 2021 Page 1
` ,	,, ,		ID:wH4RYhEsTNeU		syQY8e-mD5WVDWjB		
			6-5-7				
	·		6-5-7			·	
							Scale = 1:15.3
	12x4						
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2-4-9							
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					2		
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	3						
	2x4				2x4 🗢		
	ŀ						
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. i	n (loc)	I/defl L/d	PLATES	GRIP
CLL 25.0	Plate Grip DOL 1.15		Vert(LL) n/		n/a 999	MT20	197/144
CDL 20.0	Lumber DOL 1.15		Vert(CT) n/		n/a 999	==	
BCLL 0.0	Rep Stress Incr YES		Horz(CT) 0.0	0 2	n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P				Weight: 16 lb	FT = 20%
IIMRED-		<u> </u>	BDACING.				

TOP CHORD

BOT CHORD

REACTIONS.

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

WEBS 2x4 SPF No.2

> (size) 3=6-3-8, 2=6-3-8 Max Horz 3=-91(LC 8)

Max Uplift 3=-64(LC 13), 2=-45(LC 13) Max Grav 3=295(LC 1), 2=295(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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 5-6-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.







Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358445 2704151 V05 Valley Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:31:58 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-mD5WVDWjBnYwzbsl3Le0UUxhgzJEnJo6tW6_v5zXQGF 9-1-7 Scale = 1:20.4 2x4 || 4.50 12 2^{2x4} || -0-C 5 4 2x4 > 2x4 || 2x4 || LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.33 n/a n/a MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

0.00

999

n/a

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

Weight: 25 lb

FT = 20%

n/a

n/a

except end verticals.

3

LUMBER-

TCDL

BCLL

BCDL

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

20.0

0.0

10.0

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 5=8-11-8, 3=8-11-8, 4=8-11-8

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 5=-135(LC 8)

Max Uplift 5=-26(LC 8), 3=-12(LC 13), 4=-118(LC 9) Max Grav 5=154(LC 1), 3=177(LC 1), 4=553(LC 1)

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

WEBS 2-4=-452/242

NOTES-

1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-4-11, Interior(1) 4-4-11 to 8-2-2 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

ВС

WB

Matrix-P

0.14

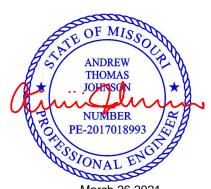
0.06

- 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.

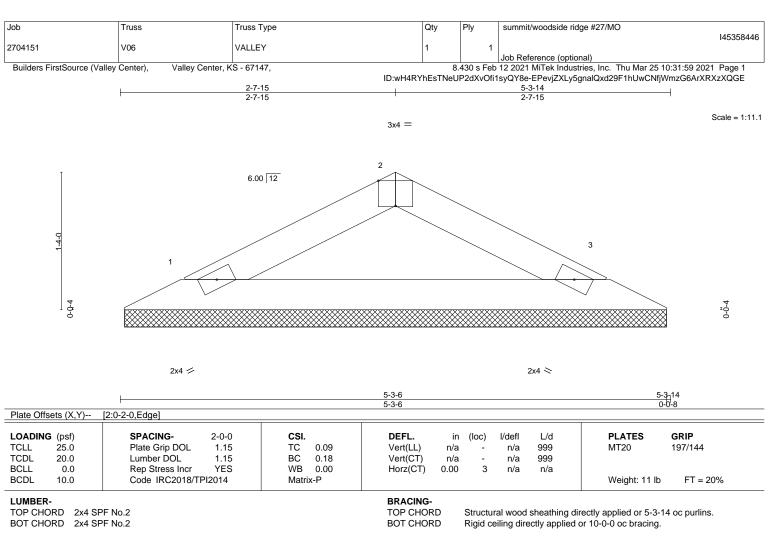
1.15

YES

- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3 except (jt=lb) 4=118.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







REACTIONS.

1=5-2-14, 3=5-2-14 (size) Max Horz 1=18(LC 16)

Max Uplift 1=-30(LC 12), 3=-30(LC 13) Max Grav 1=223(LC 1), 3=223(LC 1)

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

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.



March 26,2021





Valley 2704151 V07 | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:32:00 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-ibCHwvYzjOoeCv?7BlgUZv12qm?8FDdPLqb5__zXQGD 3-8-0 3-8-0 Scale = 1:15.3 4x4 = 2 6 6.00 12 2-1-0 0-3-0 0-3-0 2x4 || 2x4 / 2x4 > LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 25.0 Plate Grip DOL 1.15 TC Vert(LL) 999 197/144 **TCLL** 0.29 n/a n/a MT20 TCDL 20.0 Lumber DOL 1.15 ВС 0.11 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 Code IRC2018/TPI2014 BCDL 10.0 Matrix-P Weight: 19 lb FT = 20%

> **BRACING-**TOP CHORD

BOT CHORD

Qty

summit/woodside ridge #27/MO

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

145358447

LUMBER-

Job

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

OTHERS 2x4 SPF No.2

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

Truss

Truss Type

Max Horz 1=31(LC 16)

Max Uplift 1=-41(LC 12), 3=-47(LC 13), 4=-22(LC 12) Max Grav 1=200(LC 1), 3=200(LC 1), 4=375(LC 1)

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

2-4=-286/165 WEBS

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-8-0, Exterior(2R) 3-8-0 to 6-8-0, Interior(1) 6-8-0 to 7-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.
- 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.







Job Truss Truss Type Qty summit/woodside ridge #27/MO 145358448 2704151 V08 Valley | Job Reference (optional) 8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Mar 25 10:32:01 2021 Page 1 Builders FirstSource (Valley Center), Valley Center, KS - 67147, ID:wH4RYhEsTNeUP2dXvOfi1syQY8e-Aomf7FYbUiwVq3aJITBj66ZE4ALT_grZZUKeWQzXQGC 3-8-0 3-8-0 Scale = 1:19.4 4x4 =9 6.00 12 10 2x4 || 2x4 || 1-0-0 2x4 || 2x4 || 2x4 ||

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

n/a

n/a

0.00

I/defI

n/a

n/a

n/a

except end verticals.

L/d

999

999

n/a

PLATES

Weight: 22 lb

MT20

Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

GRIP

197/144

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

25.0

20.0

0.0

10.0

WEBS 2x4 SPF No.2 **OTHERS** 2x4 SPF No.2

REACTIONS. (size) 6=7-4-0, 4=7-4-0, 5=7-4-0

Max Horz 6=52(LC 9)

Max Uplift 6=-52(LC 12), 4=-53(LC 13)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

Max Grav 6=224(LC 1), 4=224(LC 1), 5=327(LC 1)

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

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=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 3-8-0, Exterior(2R) 3-8-0 to 6-8-0, Interior(1) 6-8-0 to 7-2-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

ВС

WB

Matrix-R

0.20

0.10

0.04

- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

2-0-0

1.15

1.15

YES

- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 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.



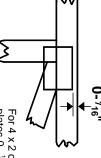


Symbols

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- ¹/16" from outside edge of truss.

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

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

PLATE SIZE



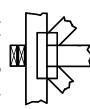
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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.

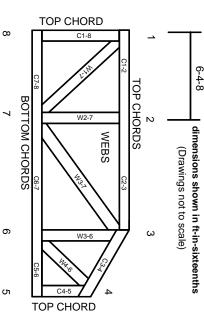
Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

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

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

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